



新
創新 Innovation

實
信實 Honesty

勤
勤快 Diligence

效
效益 Efficiency





Chenta Company Profile

1 1960年本公司董事長陳茂正先生創設”成大機器廠”於高雄市自強二路，工廠取名”成大”乃本於其對母校成功大學機械系在機械專業知識教育養成之感恩及飲水思源之情。

2 成大機器廠成立後，專門從事汽車船舶引擎曲軸之研磨再生，汽缸搪缸及柴油引擎校正等機械加工工程，當時為南台灣之翹楚，由於技術精良服務親切，開業後旋即聞名遐邇，生意蓬勃。

3 1971年本於公司發展應有自主性產品，才能永續經營遂與日本減速機製造廠技術合作，開始生產製造自有品牌之成大齒輪減速機，發展至今，公司員工近90名，產品以自有之CHENTA品牌行銷全球。主要市場為台灣、亞洲、北美洲及中東，至今已執台灣業界之牛耳。並在海外設立美國分公司及中國上海分公司。

4 建廠以來，本公司即奉著”結合一流人才，研發製造高品質的產品”為信念。產品政策以”品質保證””交貨準確””價格競爭””生產合理”及”行銷國際”為追求目標。

5 累積50多年之機械製造經驗及誠信經營精神，本公司已自然形成一種優良的公司文化，此精神文化乃是公司最寶貴之資源，表諸文字即是”新””實””勤””效”，乃創新、信實、勤快、效益，之意也。

6 全體員工受此公司文化之薰陶，工作勤奮盡忠職守。在良好工作環境下，協力合作積極創新。使公司持續穩定發展，營造共同效益。

7 本公司將在現有資源文化基礎上，繼續秉持敬業精神，以客戶至上的服務態度，精益求精，生產高品質具競爭價位之齒輪減速機回饋國內外客戶，與客戶攜手成長，以臻永續經營之目標。

公司概要

公司名稱：成大精機工業股份有限公司
CHENTA PRECISION MACHINERY IND. INC.

成立：民國 60 年（1971 年）

職工人數：100 名

廠房面積：仁武廠 7000M²

上海廠 6800M²

蘇州廠 30000M²



Chenta Company Profile

- 1** In 1960, Mr. Mao Cheng Chen, president of the company, and two colleagues in the department of Mechanical Engineering at Tainan Engineering College (predecessor of Cheng Kung University) established a company called "Chen Ta Machinery Works". It was named "Chen Ta" in honor of their Alma mater, Cheng Kung University (called Chen Ta in short).
- 2** Chen Ta Machinery Works specialized in machining jobs such as grinding/re-building of the crankshafts of automobile and vessel engines, cylinder overhaul, and diesel tuning. Due to the excellent technique and cordial service, the company name was soon well known and the business became prosperous.
- 3** In 1971, Chen Ta Machinery began a partnership with Mitaka Koki, and then Jen Wu Machinery Co., Ltd and CHENTA were established with a starting of manufacturing "CHENTA GEAR REDUCERS". Now CHENTA products are sold throughout worldwide. In Taiwan, CHENTA remains at the top of the field; also set an office in CA, USA and a plant in Shanghai, China.
- 4** Since the beginning, our conviction has been to "Gather excellent human resources, and research and manufacture high quality products". Our product policy is "Guaranteed Quality", "On Time Delivery", "Competitive Prices", "Rational Production", and "International Marketing".
- 5** The motto of our company is "INNOVATION", "HONESTY", "DILIGENCE", and "EFFICIENCY".
- 6** With our 50 years of experience in mechanical manufacturing and honest operation, a fine culture has grown inside the company. This spirit is our most precious resource.
- 7** Based on the company's existing cultural resources, we will maintain expertise in the field, serve our customers with respect and honesty, constantly discipline employees, and manufacture premium quality Gear Speed Reducers at a reasonable price for reaching the goal of our long term operation and expanding business over the world.

Company Profile

Chenta Precision Machinery Ind. Inc.

Established: 1971

Employee: 100 persons

Plant Sizes: Jen Wu Plant: 7000M²

Shanghai Plant: 6800M²

Suzhou Plant: 30000M²



公司沿革

1960 “成大機器廠” 設立於高雄市自強二路，從事引擎之曲軸研磨，汽缸搪缸零件修理等工程。

1971 成立仁武機械股份有限公司，設廠於高雄縣仁武鄉，正式生產“成大牌”蝸輪減速機（由日本 MITAKA KOKI 技術提供），資本額 150 萬元。

1975 購鳳山工業區內廠地，並著手興建鋼筋水泥標準廠房。

1976 減速機首度成功地外銷至美國芝加哥，開啟外銷市場。董事長陳茂正因公司經營傑出，獲頒國立成功大學校友榮譽獎章。

1977 資本額增資至 300 萬元，鳳山工廠興建完成，仁武廠併入鳳山廠生產。

1983 資本額增資至 1000 萬元。

1989 開發成功全省最大馬力之 400 型蝸輪減速機，供應台糖公司。

1990 正式啟用電腦化連線管理作業及 AUTOCAD 電腦輔助設計。

1991 購置全省最大型之蝸桿螺牙磨床（研磨工件最大長度：1500MM）

1992 開發成功大馬力 500 型及 625 型蝸輪減速機，供鋼鐵公司使用。

1993 資本額增資為 2000 萬元。成立美國分公司—**Channel power transmission Inc.** 拓展美國市場。

1994 承製國連鋼鐵公司 800HP 軋鋼用齒輪箱，品質客戶滿意。

1995 與日本 MAKI-SHINKO 製作所技術交流，公司幹部赴日學習。

1996 推動執行工廠 5S 運動—整理、整頓、清掃、清潔、修身。

1997 購置日本大阪精密公司之齒輪檢測儀。新產品螺旋齒輪減速機正式量產銷售。

1998 正式取得 ISO 9001 國際品保認證。

1999 首度赴德國漢諾威 (HANNOVER MESSE) 參展減速機。

2000 建地面積 7000m² 之現代化新廠完成啟用。

2001 公司電腦管理系統，正式更新為視窗版 WORKFLOW-ERP (流程導向-企業資源規劃系統)。

2002 於上海嘉定區設立分公司—上海成奕精密機械有限公司，擴大並直接服務廣大之中國大陸客戶。
與國立成功大學機械工程系合作，導入有限元素分析(Finite Element Analysis - FEA)，進行產品之最佳化設計。

2003 ISO 9002 品質保證系統轉昇為 ISO 9001 - 2000 年版。

2004 購置三次元檢驗設備，配合臥式綜合加工中心機，升級加工精度等級。

2007 設立美國西岸辦公室於加州橘郡。

2008 與中鋼公司簽約成為減速機維修承包廠商。

董事長陳茂正先生獲頒國立成功大學傑出校友成就獎。

2009 9月升級 ISO 9001:2008 年版國際品質認證。

11月經濟部中小企業處優質企業示範觀摩。

2012 5月水車式增氧機通過成功大學先進動力系統研究中心綠色產品檢測實驗室試驗節能合格，並獲漁業署專案採購補助。



CHRONOLOGY

1960

"Chenta Machinery Works" was established at Tzu-Chian 2nd Road, Kaohsiung City. We engaged in the business of engine crankshaft grinding, cylinder and engine overhaul.

1971

Jen Wu Machinery Co., Ltd. was founded and located on Jen Wu Village, Kaohsiung County with a start of manufacturing "CHENTA BRAND" Worm Gear Speed Reducers (techniques provided by Mitaka Koki, Japan). Capital \$1.5 million NT dollars.

1975

Bought a land in Feng Shan Industrial Zone for building a standard concrete plant in construction.

1976

Opened the exporting business by a successful delivery to Chicago, USA. Due to the excellent company performance, Chen Gong University awarded Mr. Mao-Cheng Chen as an eminent alumnus.

1977

Increased the capital to 3 million NT dollars. The Feng-Shan plant was completed and made a combination of production from Jen Wu plant and new Feng-Shan plant.

1983

Increased the capital to 10 million NT dollars.

1989

Successfully developed the largest horse power size 400 Worm Gear Reducer in Taiwan for a usage by Taiwan Sugar Mill Company.

1990

Started to computerize on-line operation and AutoCAD computer-aided design.

1991

Purchased the largest Worm-thread Grinder Machine in Taiwan. Maximum ability of length is 1500 mm.

1992

Successfully developed size 500 and size 625 large HP Worm Gear Reducers for steel mill application.

1993

Increased the capital to 20 million NT dollars and established USA branch office - GearKing, Inc. for developing USA market.

1994

Completed Kwo-Lian Steel Mill Company's 800 HP roller mill Gearbox. Customer was pleased with the quality.

1995

Techniques interchanged with Japan Makishinko. Sent company's cadre members to Japan for training.

1996

5-S Drive: Order, Reorganization, Sweep, Clean, Cultivation (pronounced in Japanese).

1997

Purchased gear tester from Osaka Seimitsu, Japan. Started manufacturing new product - Helical Gear Reducers.

1998

Awarded ISO 9002 international quality certification.

1999

Maiden exhibition of CHENTA speed reducers in the Hannover Messer, Germany.

2000

Completed and started operating in the 5000 M2 modern plant in Jen Wu.

2001

Updated the computer managing system to WORKFLOW-ERP (Enterprise Resource Planning) in windows 2000 version

2002

Located in Ja-Din Area, Shanghai, China, the branch office, CHENYI Machinery Co., was setup to serve customers in Mainland China. Cooperated with Department of Mechanical Engineering in National Cheng Kung University to import Finite Element Analysis-FEA technology to optimize the design of our gear products

2003

Converted ISO 9002 to ISO 9001-2000 version

2004

Having a new 3-Dimensions Inspection Equipment, with horizontal CNC machine, upgrade the accuracy of machining job.

2007

Established branch office in California, USA

2008

Becoming the CSC (China Steel Corp.) official contractor for gearboxes maintenance

The president Mr. M. C. Chen is awarded the most outstanding alumnus honor by National Cheng Kung University

2009

September: obtain ISO9001:2008 certificate

November: Appointed by Ministry of Economic Affairs R.O.C to be a demonstration factory for Medium and Small Sized Enterprises in the country

2012

May: Chenta Water Paddle Aerator passed the exam and gained a Green-Product certification by the Green-Product Certification Division at National Cheng Kung University.

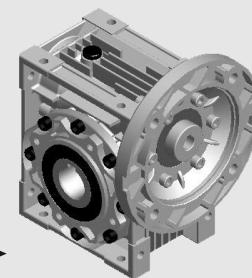


成大齒輪減速機

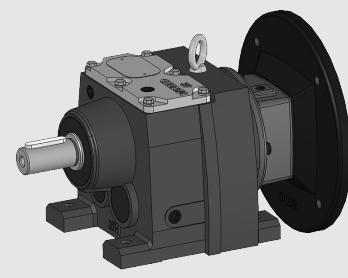
1. 蝸輪減速機
(WORM GEAR REDUCERS)



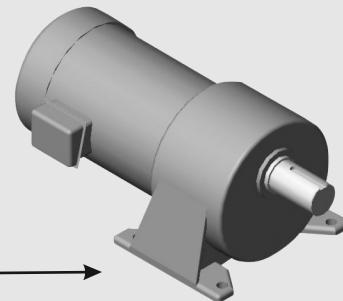
2. 鋁殼中空軸蝸輪減速機
(ALUMINUM HOUSING WORM GEAR REDUCERS)



3. 強力型齒輪減速機
(HELICAL GEAR REDUCERS)



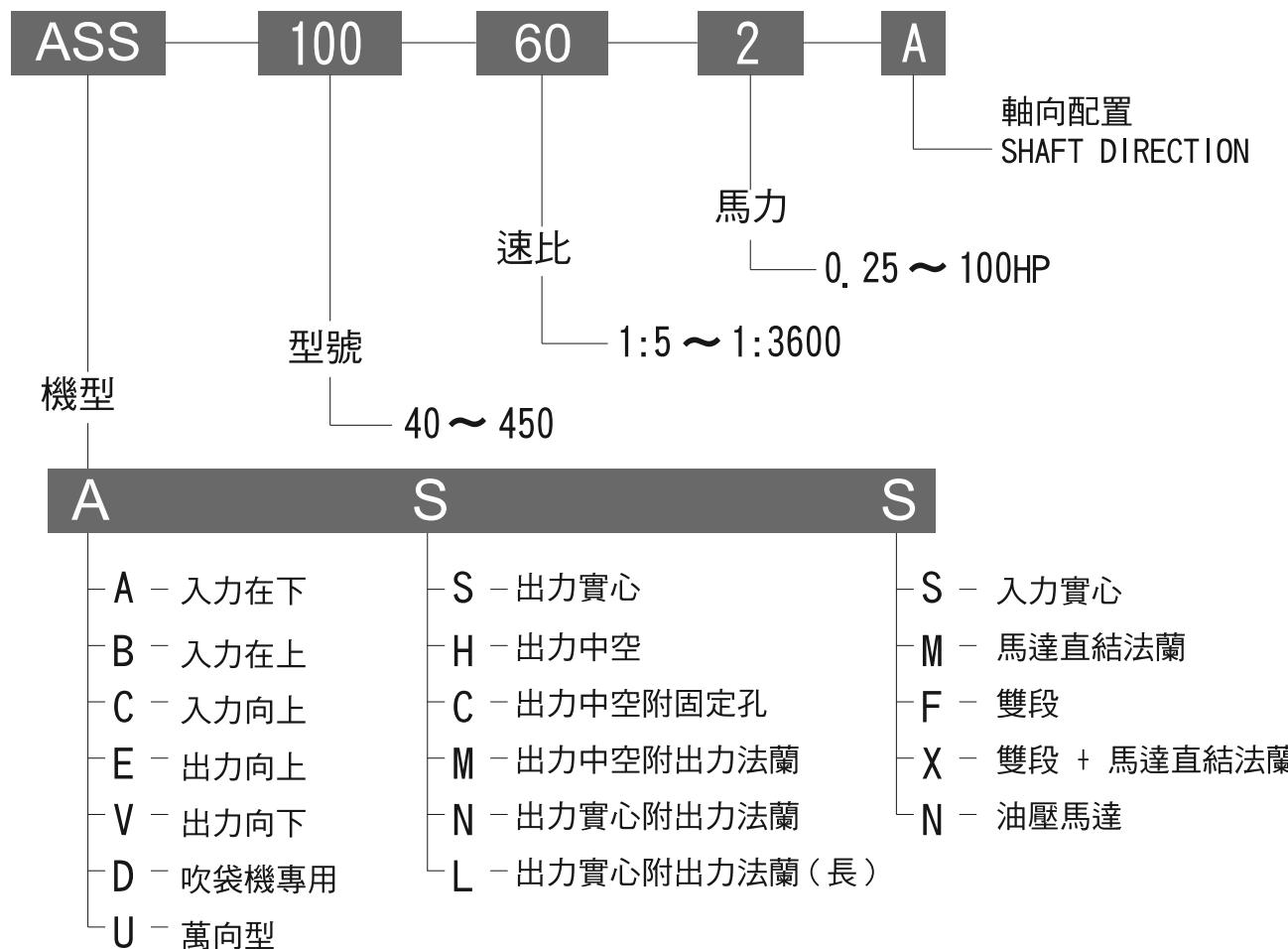
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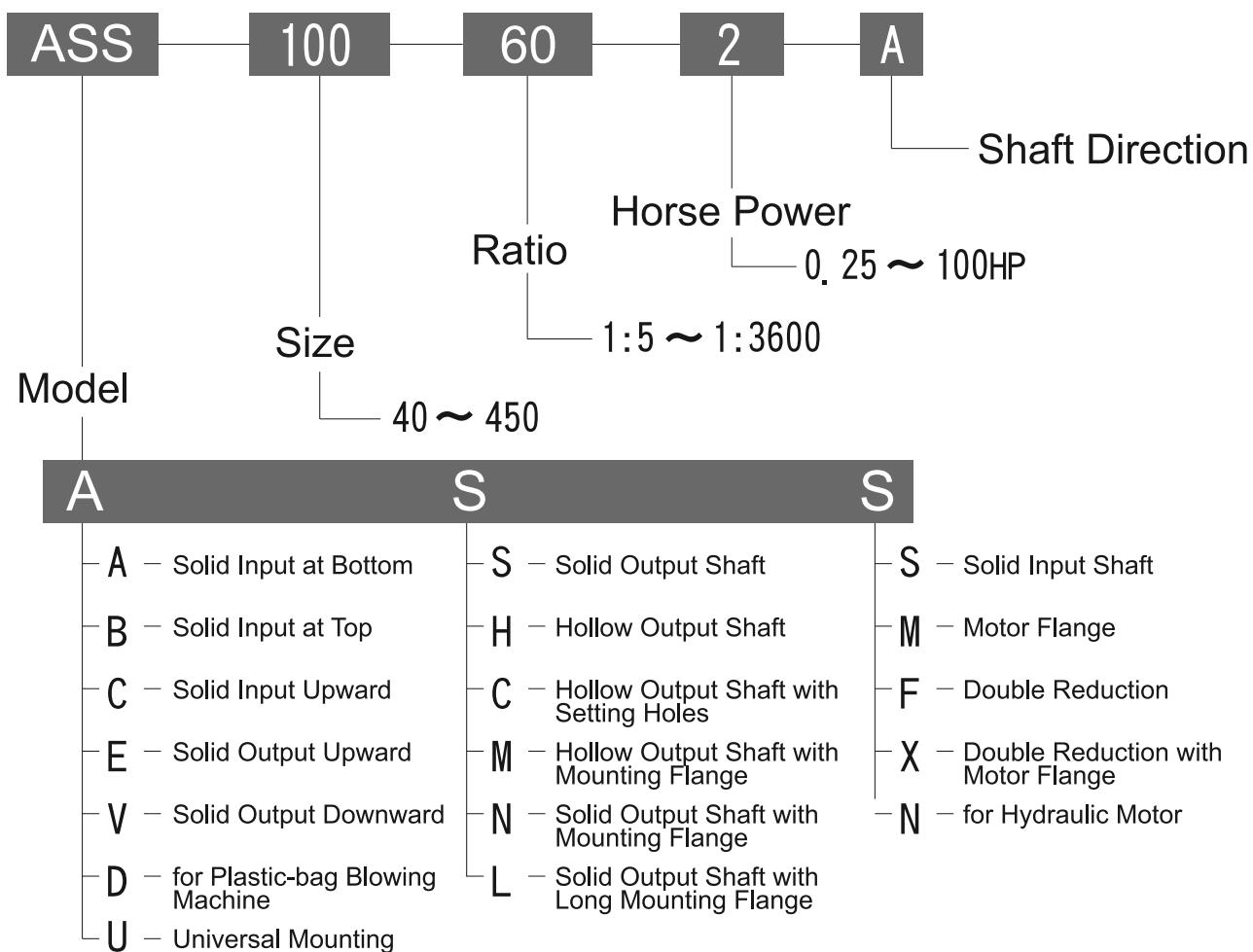
蝸齒輪減速機之型號編碼說明：



CHENTA 蝸齒輪減速機特點

- 具有公制 IEC 及美制 NEMA 兩種馬達法蘭規格
- 減速比範圍 5:1 到 3600:1
- 成大蝸輪減速機成品低背隙標準，可提供客戶諮詢選用
- 使用馬力範圍小從 1/4HP 大至 100HP
- 使用高品質雙唇油封
- 蝸桿採用 S45C 中碳鋼經硬化熱處理後，牙面研磨齒形
- 300 型 (含) 以上，蝸桿採用 SCM440 鉻鉻合金鋼，經調質高週波處理後，牙面齒形研磨
- 蝸輪材質採用高品質之 ALBC3 鋁青銅具最佳耐磨性
- 機體外殼採高強度之 FC-20 灰口鑄鐵
- 300 型 (含) 以上機體外殼採更高強度之 FCD45 球狀石墨鑄鐵
- 入力軸承使用圓錐滾子軸承
- 萬向型具活動式底座
- 工業用重負載型使用壽命長
- 一年使用保固

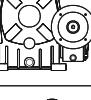
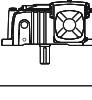
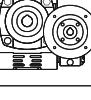
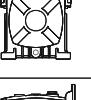
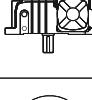
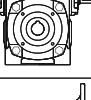
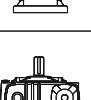
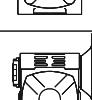
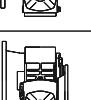
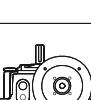
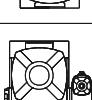
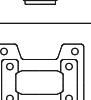
Numbering Systems for Worm Gear Reducers:



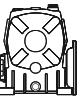
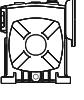
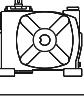
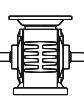
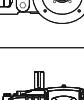
CHENTA Features of Worm Gear Reducers:

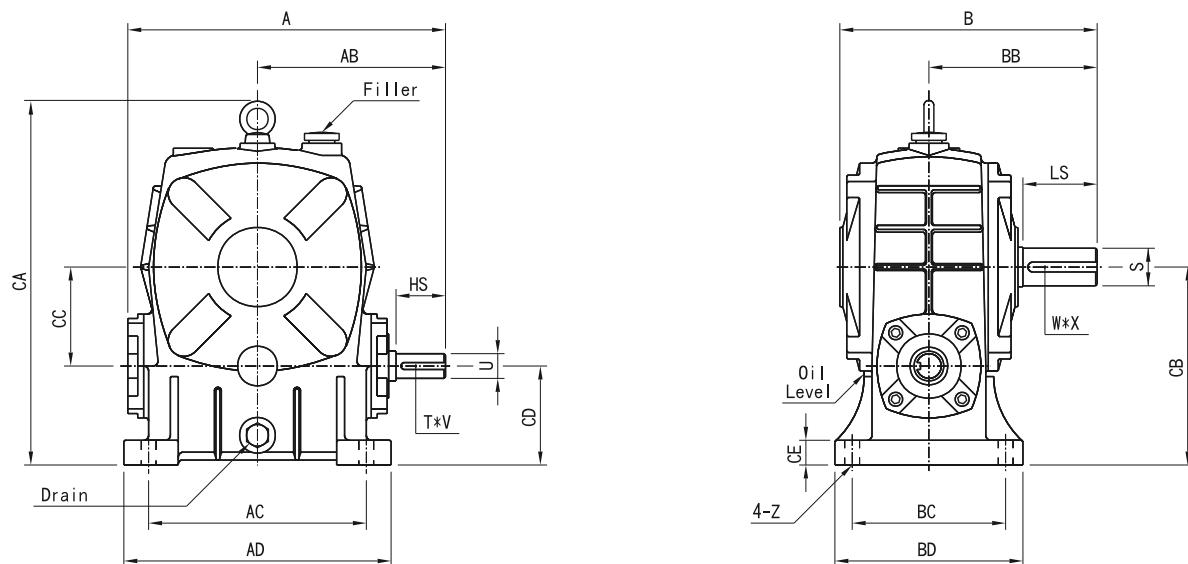
- Motor Flange: both IEC and NEMA flanges are available
- Range of Ratio: 5:1 ~ 3600:1
- Reduced Backlash Designs are available for Chenta Worm Gear Reducers.
- Range of Horse Power: 1/4HP ~ 100HP
- Oil Seals: premium quality double lips oil seals
- Worm Shaft:
Under size 300- in medium carbon steel (S45C) with harden heat-treatment and threads grounded
Size 300 to up- in Chromium Molybdenum Alloy Steel (SCM440) with high frequency heat-treatment and threads grounded
- Worm Wheel: in Aluminum Bronze (ALBC3) with the most durable feature
- Housing:
Under size 300- in Grey Iron (FC20) with higher strength
Size 300 to up- in Ductile Cast Iron (FCD45) with first-rate intensity
- Removable bases for universal mounting
- Enduring service life
- One year limited warranty

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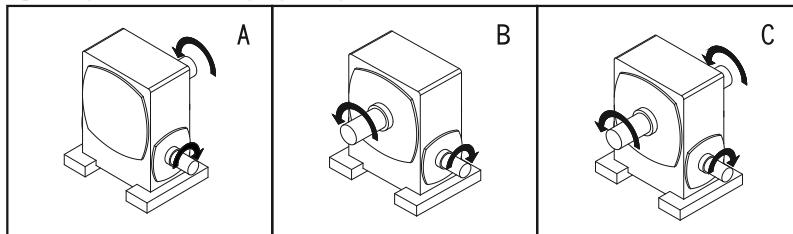
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|  | ESS 單 段 出力向上 | 25 |  | USM 單段萬向型 入力附法蘭 | 54 |  | UMX 雙段出力中空 入， 出力附法蘭 | 68 |
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Model Guide

| Mode | Description | Page | Mode | Description | Page | Mode | Description | Page |
|---|---|-------|---|--|------|---|--|------|
|  | ASS: Single reduction, solid input at bottom | 5 |  | ESX: Double reduction, output upward in vertical, hollow input with motor flange | 34 |  | UHS: Single reduction, solid input, hollow output, universal mounting | 57 |
|  | ASM/ASN: Single reduction, hollow input at bottom with motor flange | 8/9 |  | VSS: Single reduction, solid output downward in vertical | 37 |  | UHM: Single reduction, input motor flange, hollow output, universal mounting | 58 |
|  | ASF: Double reduction, solid input and output shaft | 10 |  | VSM: Single reduction, output downward in vertical, input with motor flange | 40 |  | UHF: Double reduction, solid input, hollow output, universal mounting | 59 |
|  | ASX: Double reduction, hollow input with motor flange | 13 |  | VSF: Double reduction, solid input and output downward in vertical | 42 |  | UHX: Double reduction, input motor flange, hollow output, universal mounting | 60 |
|  | BSS: Single reduction, solid input at top | 15 |  | VSX: Double reduction, output downward in vertical, hollow input with motor flange | 45 |  | UCM: Hollow output, output cover with setting holes, input motor flange | 61 |
|  | BSM/BSN: Single reduction, hollow input at top with motor flange | 17/19 |  | DMM: Hollow output with mounting flange, input with motor flange | 48 |  | UCS: Hollow output, output cover with setting holes | 62 |
|  | CSS: Single reduction, solid input upward | 20 |  | DNM: Solid output with short mounting flange, input with motor flange | 49 |  | UCF: Double reduction, hollow output, output cover with setting holes | 63 |
|  | CSM: Single reduction, hollow input upward with motor flange | 21 |  | DLM: Solid output with long mounting flange, input with motor flange | 50 |  | UCS: Double reduction, hollow output, output cover with setting holes, input motor flange | 64 |
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|  | CHM: Single reduction, hollow output, input vertical with motor flange | 23 |  | BSV: Special for variable speed drive | 52 |  | UMM: Hollow output with mounting flange, input motor flange | 66 |
|  | WSM: Special for Paddle Wheel Aerator | 24 |  | USS: Single reduction, solid input and output, universal mounting | 53 |  | UMF: Double reduction, hollow output with mounting flange, solid input | 67 |
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|  | ESM/ESN: Single reduction, output upward in vertical, input with motor flange | 28/30 |  | USF: Double reduction, solid input and output, universal mounting | 55 |  | H-BASE: H-shape base for universal type | 69 |
|  | ESF: Double reduction, solid input and output upward in vertical | 31 |  | USX: Double reduction, input motor flange, universal mounting | 56 |  | L-BASE: L-shape base for universal type | 69 |



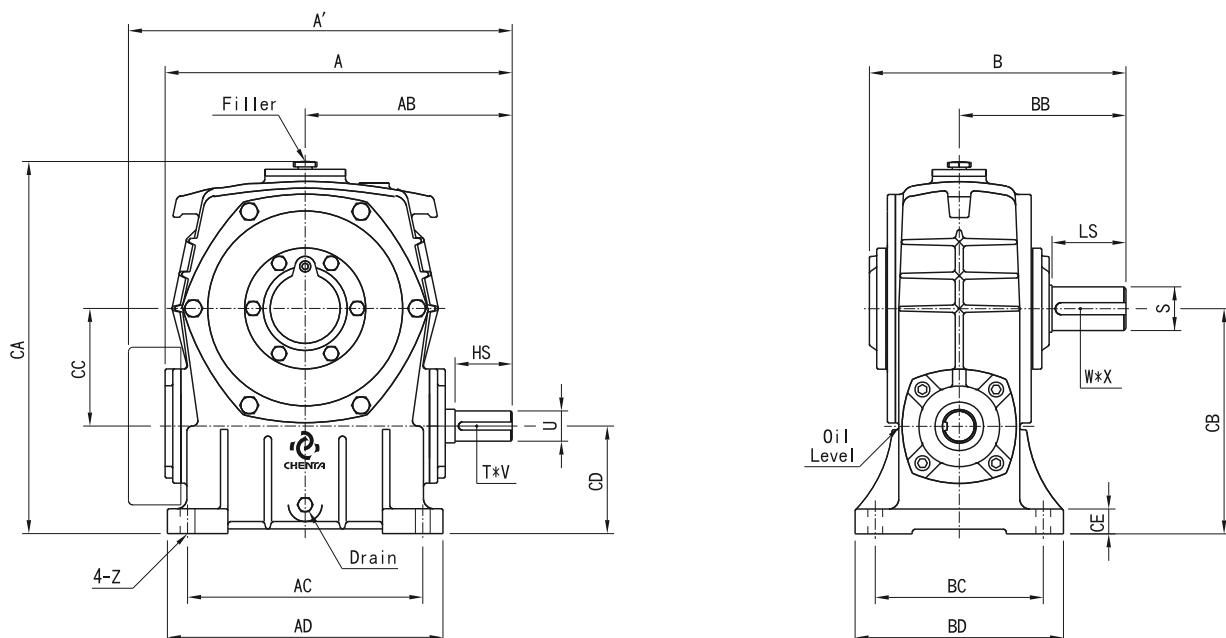
Shaft Direction



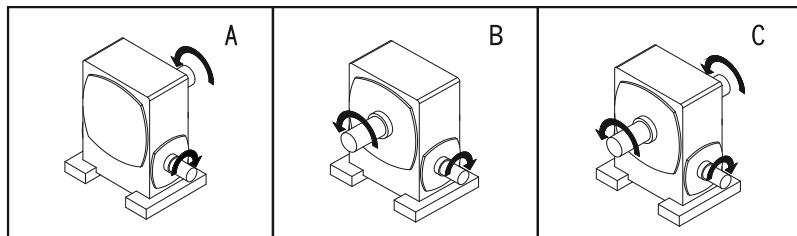
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CD | CE | Z |
|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 40 | 1/10 1/15 1/20 1/30 1/40 1/50 1/60 | 139 | 83 | 70 | 88 | 120 | 78 | 80 | 102 | 135 | 70 | 40 | 30 | 10 | 9 |
| 50 | | 181 | 107 | 110 | 140 | 147 | 95 | 95 | 120 | 180 | 100 | 50 | 50 | 18 | 11 |
| 60 | | 204 | 124 | 120 | 150 | 168 | 110 | 105 | 130 | 210 | 120 | 60 | 60 | 20 | 11 |
| 70 | | 235 | 140 | 150 | 190 | 196 | 130 | 115 | 150 | 240 | 140 | 70 | 70 | 22 | 15 |
| 80 | | 265 | 160 | 180 | 220 | 216 | 140 | 135 | 170 | 278 | 160 | 80 | 80 | 23 | 15 |
| 100 | | 325 | 192 | 220 | 270 | 260 | 170 | 155 | 190 | 376 | 200 | 100 | 100 | 25 | 15 |
| 120 | | 389 | 230 | 260 | 320 | 291 | 190 | 180 | 230 | 435 | 240 | 120 | 120 | 30 | 18 |
| 135 | | 435 | 260 | 290 | 350 | 320 | 210 | 200 | 250 | 490 | 270 | 135 | 135 | 30 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 40 | 25 | 12 | 4 * 2.5 | 35 | 16 | 5 * 3 | 0.2 | 4.1 |
| 50 | 30 | 12 | 4 * 2.5 | 40 | 17 | 5 * 3 | 0.22 | 7 |
| 60 | 40 | 15 | 5 * 3 | 50 | 22 | 7 * 4 | 0.32 | 9.7 |
| 70 | 40 | 18 | 5 * 3 | 60 | 28 | 7 * 4 | 0.55 | 14.6 |
| 80 | 50 | 22 | 7 * 4 | 65 | 32 | 10 * 5 | 0.77 | 19.7 |
| 100 | 50 | 25 | 7 * 4 | 75 | 38 | 10 * 5 | 1.53 | 38.4 |
| 120 | 65 | 30 | 7 * 4 | 85 | 45 | 12 * 5 | 2.4 | 63.4 |
| 135 | 75 | 35 | 10 * 5 | 95 | 55 | 15 * 5 | 3.25 | 83.2 |



Shaft Direction



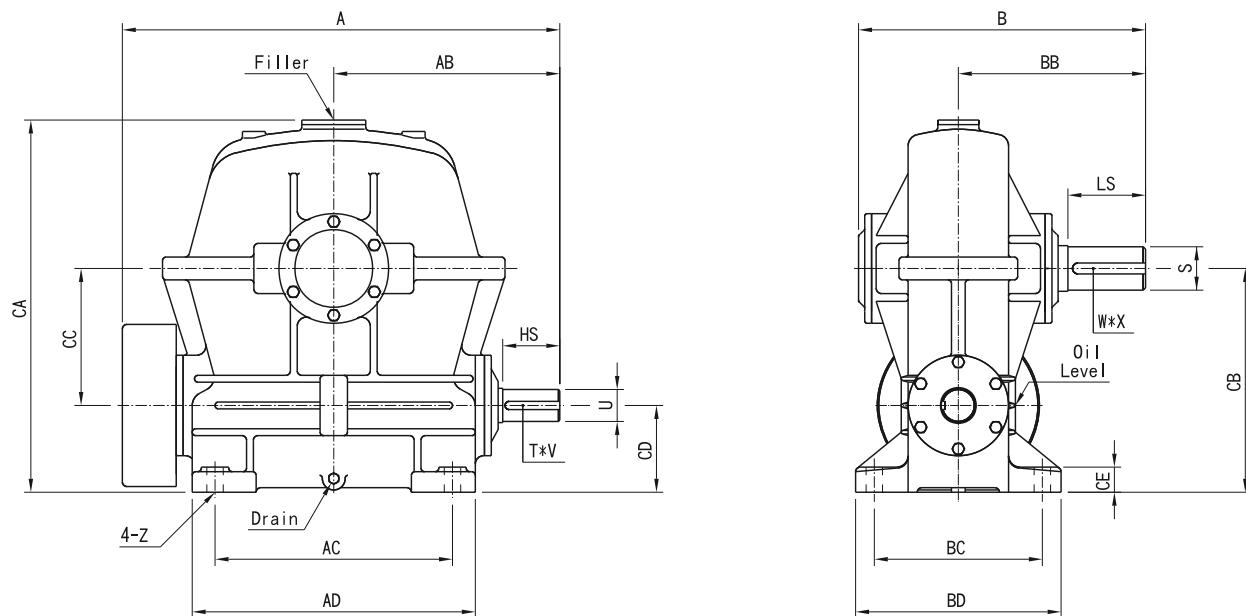
Unit:mm

| Size | Ratio | A' | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CD | CE | Z |
|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 155 | 1/10 | --- | 479 | 286 | 320 | 385 | 377 | 242 | 220 | 280 | 487 | 290 | 155 | 135 | 30 | 20 |
| | 1/15 | --- | 517 | 308 | 350 | 410 | 381 | 248 | 250 | 310 | 536 | 335 | 175 | 160 | 37 | 20 |
| 175 | 1/20 | --- | 517 | 308 | 350 | 410 | 381 | 248 | 250 | 310 | 536 | 335 | 175 | 160 | 37 | 20 |
| | 1/30 | 697 | --- | 357 | 350 | 420 | 479 | 305 | 280 | 350 | 637 | 390 | 200 | 190 | 35 | 22 |
| 200 | 1/40 | 720 | --- | 361 | 390 | 470 | 530 | 345 | 330 | 410 | 670 | 415 | 225 | 190 | 45 | 27 |
| | 1/50 | 720 | --- | 361 | 390 | 470 | 530 | 345 | 330 | 410 | 670 | 415 | 225 | 190 | 45 | 27 |
| 225 | 1/60 | 815 | --- | 420 | 440 | 520 | 565 | 360 | 380 | 440 | 742 | 450 | 250 | 200 | 40 | 27 |
| | 1/60 | 815 | --- | 420 | 440 | 520 | 565 | 360 | 380 | 440 | 742 | 450 | 250 | 200 | 40 | 27 |

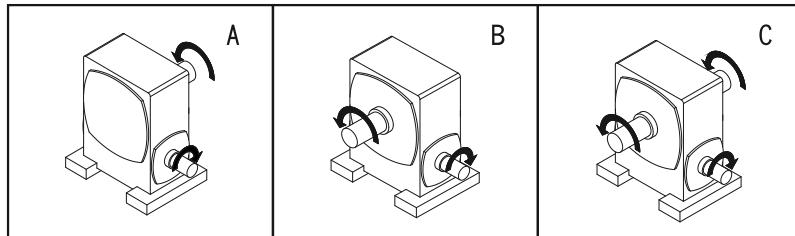
| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|--------|--------------|----|--------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 155 | 85 | 40 | 10 * 5 | 100 | 60 | 15 * 5 | 4.1 | 115, 3 |
| 175 | 85 | 45 | 12 * 5 | 110 | 65 | 18 * 6 | 5.8 | 158, 3 |
| 200 | 95 | 50 | 12 * 5 | 125 | 70 | 20 * 7 | 6.5 | 210 |
| 225 | 95 | 55 | 15 * 5 | 140 | 80 | 20 * 7 | 7 | 282 |
| 250 | 110 | 60 | 15 * 5 | 145 | 90 | 24 * 8 | 9 | 337 |

註：風扇罩裝置於 200 型以上。

*cooling fan is set for size 200 to up



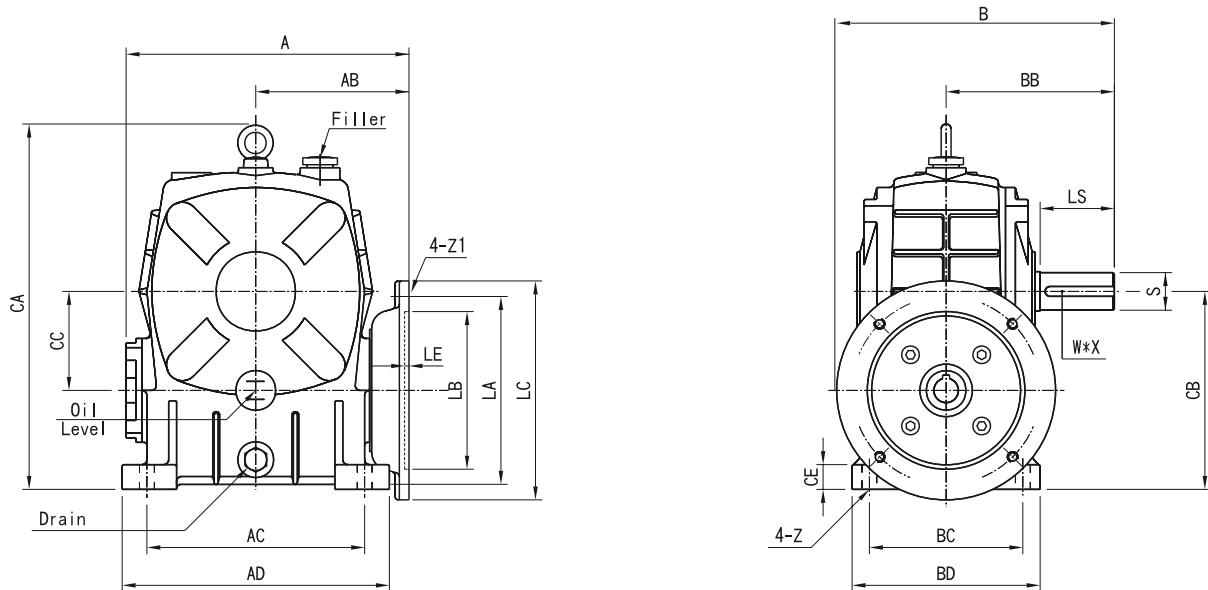
Shaft Direction



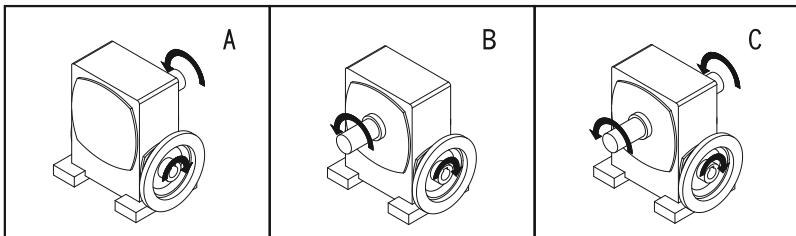
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CD | CE | Z |
|------|-----------|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----|----|
| 300 | 1/10 1/40 | 958 | 495 | 520 | 620 | 628 | 410 | 368 | 450 | 815 | 490 | 300 | 190 | 55 | 36 |
| 350 | | 1068 | 570 | 597 | 700 | 748 | 480 | 432 | 520 | 940 | 565 | 350 | 215 | 55 | 43 |
| 400 | 1/20 1/50 | 1160 | 620 | 660 | 780 | 775 | 500 | 470 | 580 | 1070 | 650 | 400 | 250 | 55 | 43 |
| 450 | | 1359 | 695 | 762 | 880 | 860 | 545 | 508 | 620 | 1190 | 705 | 450 | 255 | 40 | 43 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|--------|--------------|-----|---------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 300 | 125 | 70 | 18 * 6 | 170 | 95 | 24 * 8 | 21 | 496 |
| 350 | 145 | 80 | 20 * 7 | 190 | 115 | 32 * 10 | 30 | 673 |
| 400 | 150 | 85 | 24 * 8 | 205 | 130 | 35 * 11 | 41 | 1006 |
| 450 | 180 | 85 | 24 * 8 | 205 | 140 | 35 * 11 | 50 | 1330 |



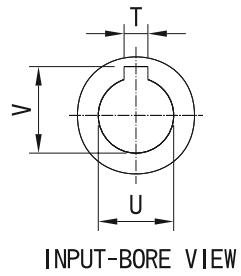
Shaft Direction



Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CE | Z | Input Bore | | |
|------|-------|------------|------------|-----|-----|------------|-----|-----|-----|-----|-----|-----|----|----|------------|---------|----------------------|
| | | | | | | | | | | | | | | | U | T | V |
| 50 | 1/10 | 174 | 97 | 110 | 140 | 175 | 95 | 95 | 120 | 180 | 100 | 50 | 18 | 11 | 11 14 | 4 5 | 12. 16 |
| 60 | 1/15 | 177 | 97 | 120 | 150 | 190 | 110 | 105 | 130 | 210 | 120 | 60 | 20 | 11 | 11 14 | 4 5 | 12. 16 |
| 70 | 1/20 | 213 223 | 118 120 | 150 | 190 | 210 230 | 130 | 115 | 150 | 240 | 140 | 70 | 22 | 15 | 14 19 | 5 6 | 16 21. 8 |
| 80 | 1/30 | 234 | 130 | 180 | 220 | 240 | 140 | 135 | 170 | 278 | 160 | 80 | 23 | 15 | 19 24 | 6 8 | 21. 8 27. 3 |
| 100 | 1/40 | 273 296 | 140 165 | 220 | 270 | 270 295 | 170 | 155 | 190 | 376 | 200 | 100 | 25 | 15 | 24 28 | 8 8 | 27. 3 31. 3 |
| 120 | 1/50 | 336 | 180 | 260 | 320 | 315 | 190 | 180 | 230 | 435 | 240 | 120 | 30 | 18 | 28 | 8 | 31. 3 |
| 135 | 1/60 | 370 390 | 195 218 | 290 | 350 | 335 360 | 210 | 200 | 250 | 490 | 270 | 135 | 30 | 18 | 28 38 | 8 10 | 31. 3 41. 3 |

| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|--------|------------|------------|------------|--------|------------|------------|---------|-------------|
| | LS | S | W*X | LA | LB | LC | LE | Z1 | | | |
| 50 | 40 | 17 | 5 * 3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0, 22 | 7, 2 |
| 60 | 50 | 22 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0, 32 | 10 |
| 70 | 60 | 28 | 7 * 4 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2 1 | 0, 55 | 15 |
| 80 | 65 | 32 | 10 * 5 | 165 | 130 | 200 | 4 | M10 | 1 2 | 0, 77 | 20, 2 |
| 100 | 75 | 38 | 10 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 1, 53 | 39, 5 |
| 120 | 85 | 45 | 12 * 5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 2, 4 | 65 |
| 135 | 95 | 55 | 15 * 5 | 215 265 | 180 230 | 250 300 | 5 | M12 15 | 5 7, 5 | 3, 25 | 85, 2 |





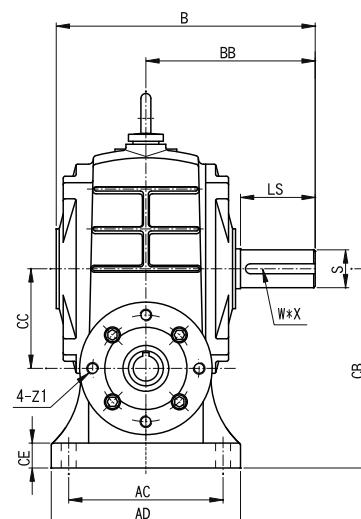
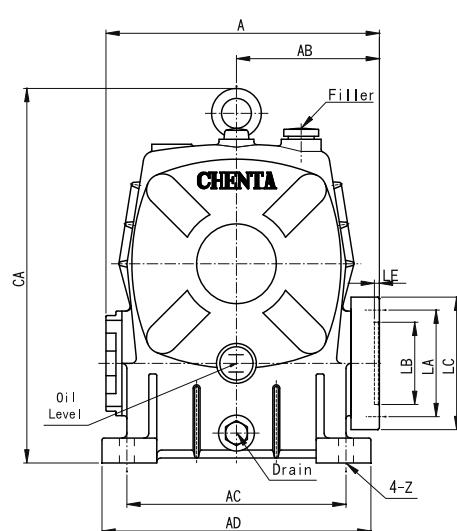
配油壓馬達

Model : ASN

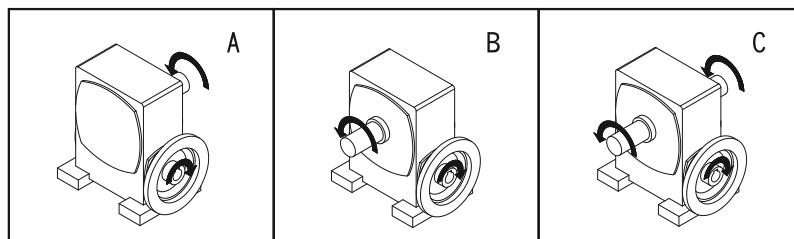
成大齒輪減速機

CHENTA

Size : 100~135



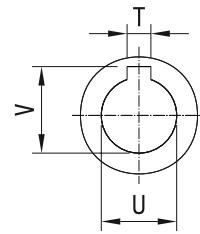
Shaft Direction



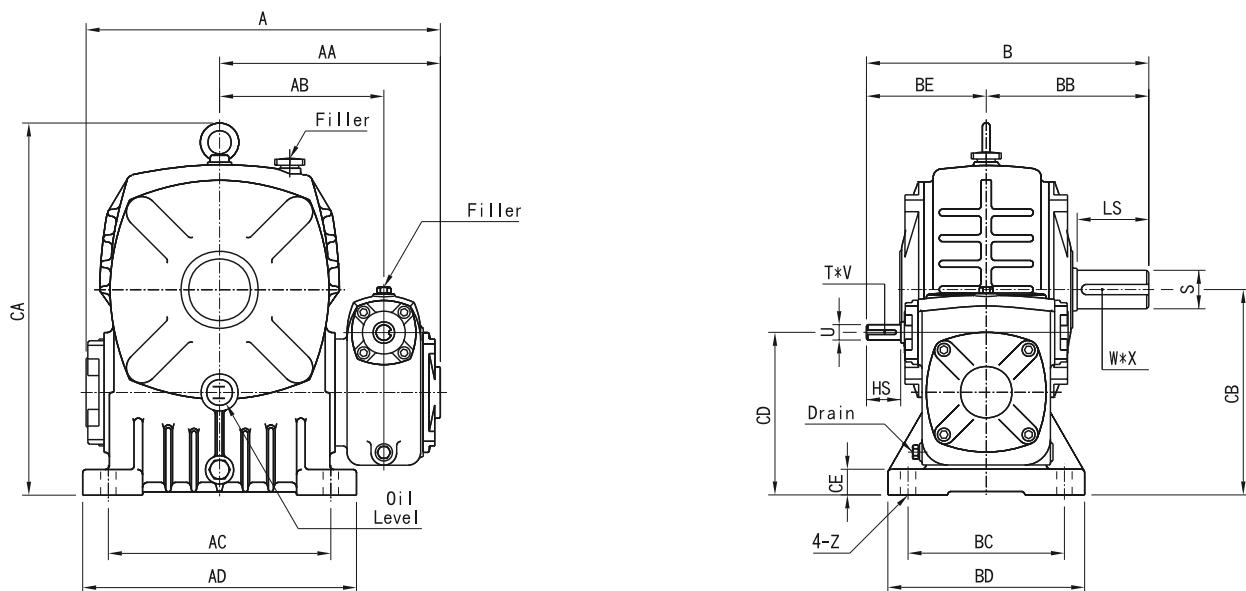
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CE | Z | Input Bore | | |
|------|-----------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------------|------|------|
| | | | | | | | | | | | | | | | U | T | V |
| 100 | 1/10 1/40 | 275 | 143.5 | 220 | 270 | 260 | 170 | 155 | 190 | 376 | 200 | 100 | 25 | 15 | 25.4 | 6.35 | 28.5 |
| 120 | 1/15 1/50 | 311 | 155 | 260 | 320 | 291 | 190 | 180 | 230 | 435 | 240 | 120 | 30 | 18 | 25.4 | 6.35 | 28.5 |
| 135 | 1/20 1/60 | 348 | 178 | 290 | 350 | 320 | 210 | 200 | 250 | 490 | 270 | 135 | 30 | 18 | 25.4 | 6.35 | 28.5 |
| | 1/30 1/60 | | | | | | | | | | | | | | 31.75 | 7.94 | 35.5 |

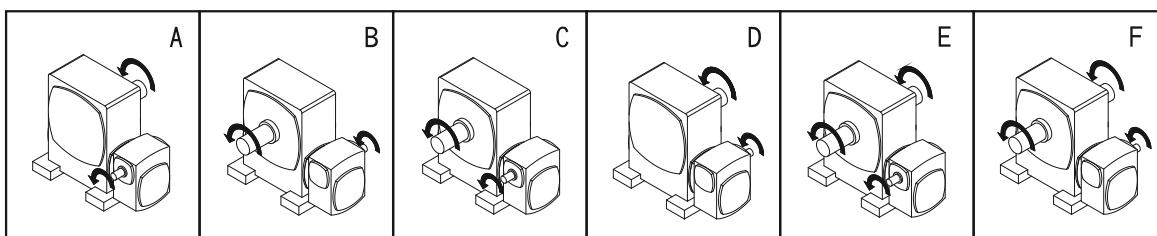
| Size | Output Shaft | | | Flange | | | | | | |
|------|--------------|----|--------|--------|-------|-----|----|-----|--|--|
| | LS | S | W*X | LA | LB | LC | LE | Z1 | | |
| 100 | 75 | 38 | 10 * 5 | 107 | 82,55 | 133 | 5 | M12 | | |
| 120 | 85 | 45 | 12 * 5 | 107 | 82,55 | 145 | 7 | M12 | | |
| 135 | 95 | 55 | 15 * 5 | 107 | 82,55 | 153 | 10 | M12 | | |



INPUT-BORE VIEW



Shaft Direction



Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BB | BC | BD | BE | CA | CB | CD | CE | Z |
|--------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 50-80 | 1/100 1/3600 | 286 | 184 | 132 | 180 | 220 | 247 | 140 | 135 | 170 | 107 | 278 | 160 | 130 | 23 | 15 |
| 60-100 | | 352 | 219 | 161 | 220 | 270 | 294 | 170 | 155 | 190 | 124 | 372 | 200 | 160 | 25 | 15 |
| 70-120 | | 417 | 258 | 192 | 260 | 320 | 330 | 190 | 180 | 230 | 140 | 430 | 240 | 190 | 30 | 18 |
| 80-135 | | 463 | 287 | 211 | 290 | 350 | 370 | 210 | 200 | 250 | 160 | 491 | 270 | 215 | 30 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|--------|-------------|----|-------|--------------|----|------|---------|-------------|
| | HS | U | T*V | LS | S | W*X | | |
| 50-80 | 30 | 12 | 4*2.5 | 65 | 32 | 10*5 | 1.2 | 23.8 |
| 60-100 | 40 | 15 | 5*3 | 75 | 38 | 10*5 | 2.2 | 46.6 |
| 70-120 | 40 | 18 | 5*3 | 85 | 45 | 12*5 | 3.2 | 73.5 |
| 80-135 | 50 | 22 | 7*4 | 95 | 55 | 15*5 | 4.3 | 97.7 |

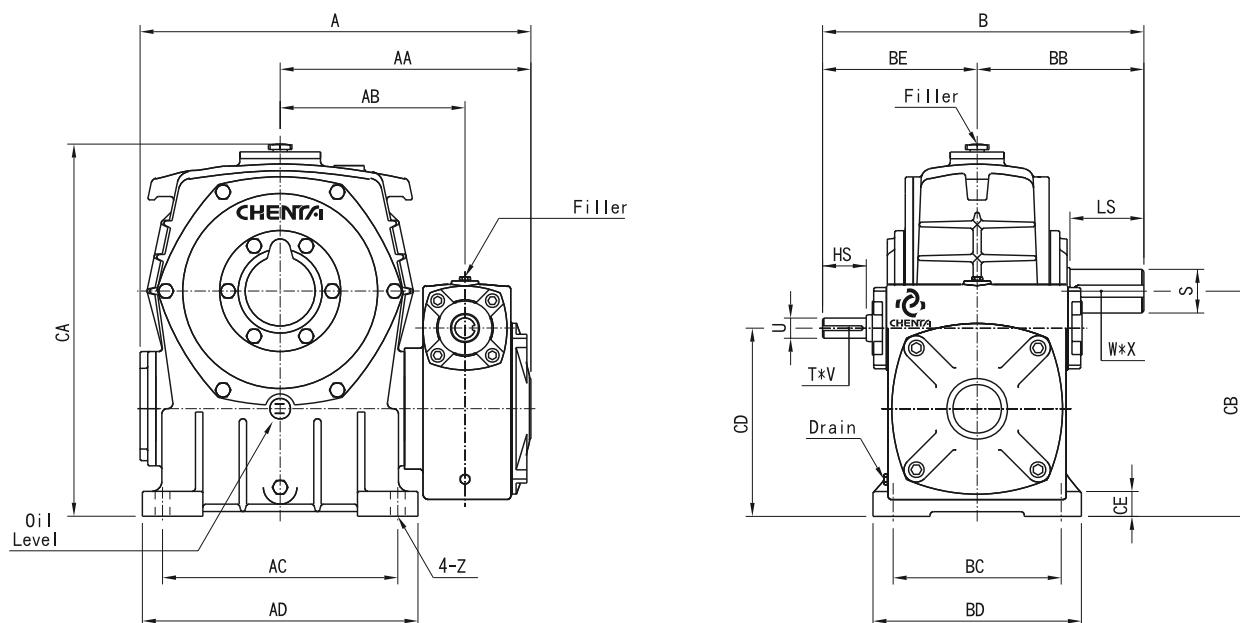


Model : ASF

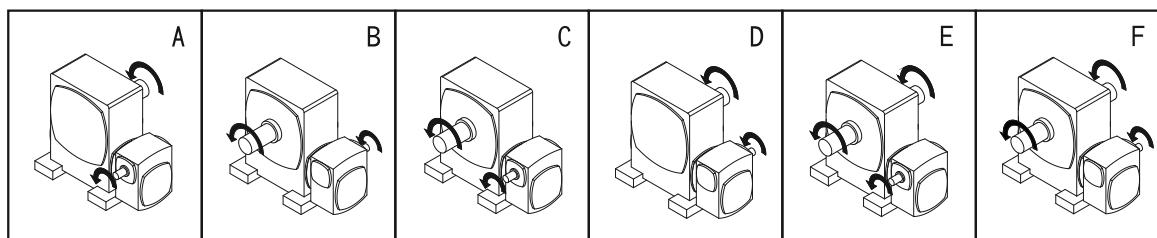
成大齒輪減速機

CHENTAI

Size : 100/155~155/250



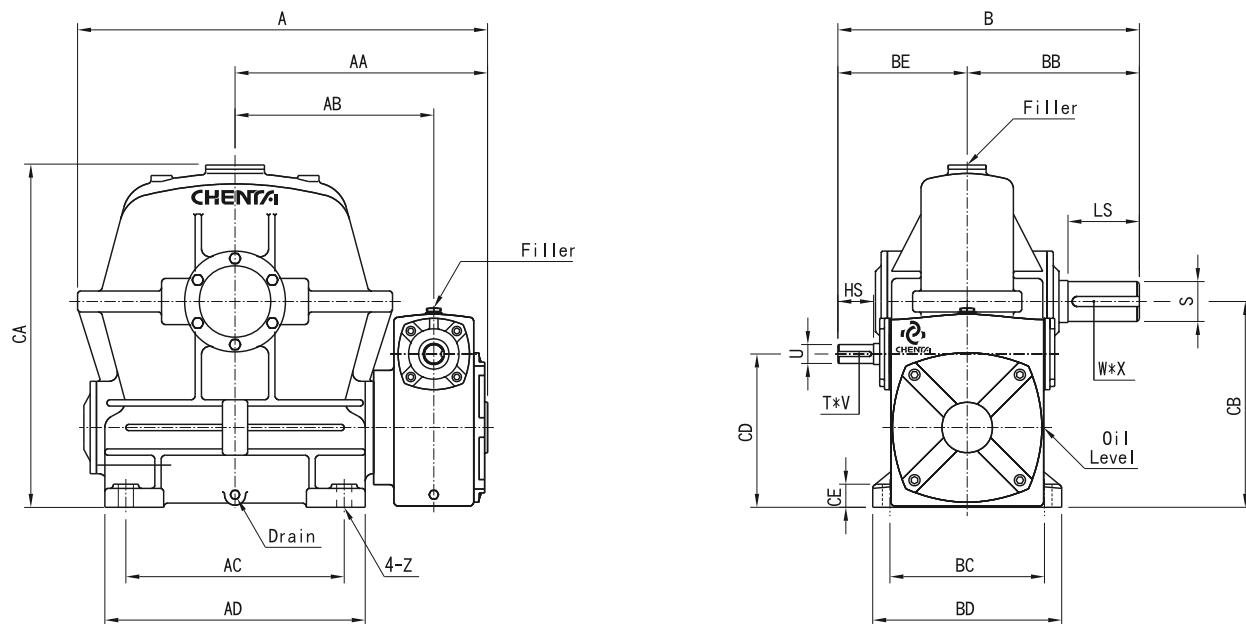
Shaft Direction



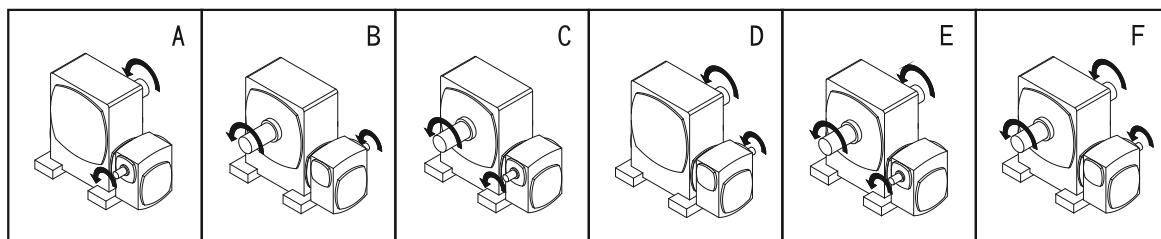
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BB | BC | BD | BE | CA | CB | CD | CE | Z |
|---------|-------|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 100-155 | 1/100 | 540 | 340 | 257 | 320 | 385 | 434 | 242 | 220 | 280 | 192 | 487 | 290 | 235 | 30 | 20 |
| 120-175 | | 585 | 376 | 275 | 350 | 410 | 478 | 248 | 250 | 310 | 230 | 553 | 335 | 280 | 37 | 20 |
| 120-200 | | 660 | 414 | 312,5 | 350 | 420 | 535 | 305 | 280 | 350 | 230 | 637 | 390 | 310 | 35 | 22 |
| 135-225 | | 672 | 425 | 315 | 390 | 470 | 605 | 345 | 330 | 410 | 260 | 680 | 415 | 325 | 45 | 27 |
| 155-250 | | 750 | 483 | 365 | 440 | 520 | 646 | 360 | 380 | 440 | 286 | 742 | 450 | 355 | 40 | 27 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|---------|-------------|----|------|--------------|----|------|------------|----------------|
| | HS | U | T*V | LS | S | W*X | | |
| 100-155 | 50 | 25 | 7*4 | 100 | 60 | 15*5 | 6.1 | 135.5 |
| 120-175 | 65 | 30 | 7*4 | 110 | 65 | 18*6 | 9.2 | 195.8 |
| 120-200 | 65 | 30 | 7*4 | 125 | 70 | 20*7 | 14.7 | 258 |
| 135-225 | 75 | 35 | 10*5 | 140 | 80 | 20*7 | 17.2 | 367 |
| 155-250 | 85 | 40 | 10*5 | 145 | 90 | 24*8 | 22 | 428 |



Shaft Direction



Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BB | BC | BD | BE | CA | CB | CD | CE | Z |
|---------|--------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|----|
| 175-300 | 1/100 | 980 | 601 | 473 | 520 | 620 | 718 | 410 | 368 | 450 | 308 | 840 | 490 | 365 | 55 | 36 |
| 200-350 | 1/3600 | 1060 | 630 | 525 | 597 | 700 | 830 | 480 | 432 | 520 | 350 | 940 | 565 | 415 | 55 | 43 |
| 225-400 | | 1252 | 777 | 620 | 660 | 780 | 875 | 500 | 470 | 580 | 375 | 1120 | 650 | 475 | 55 | 43 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight kg |
|---------|-------------|----|------|--------------|-----|--------|---------|-----------|
| | HS | U | T*V | LS | S | W*X | | |
| 175-300 | 85 | 45 | 12*5 | 170 | 95 | 24 * 8 | 60 | 560 |
| 200-350 | 95 | 50 | 12*5 | 190 | 115 | 32*10 | 80 | 860 |
| 225-400 | 95 | 55 | 15*5 | 205 | 130 | 35*11 | 110 | 1215 |

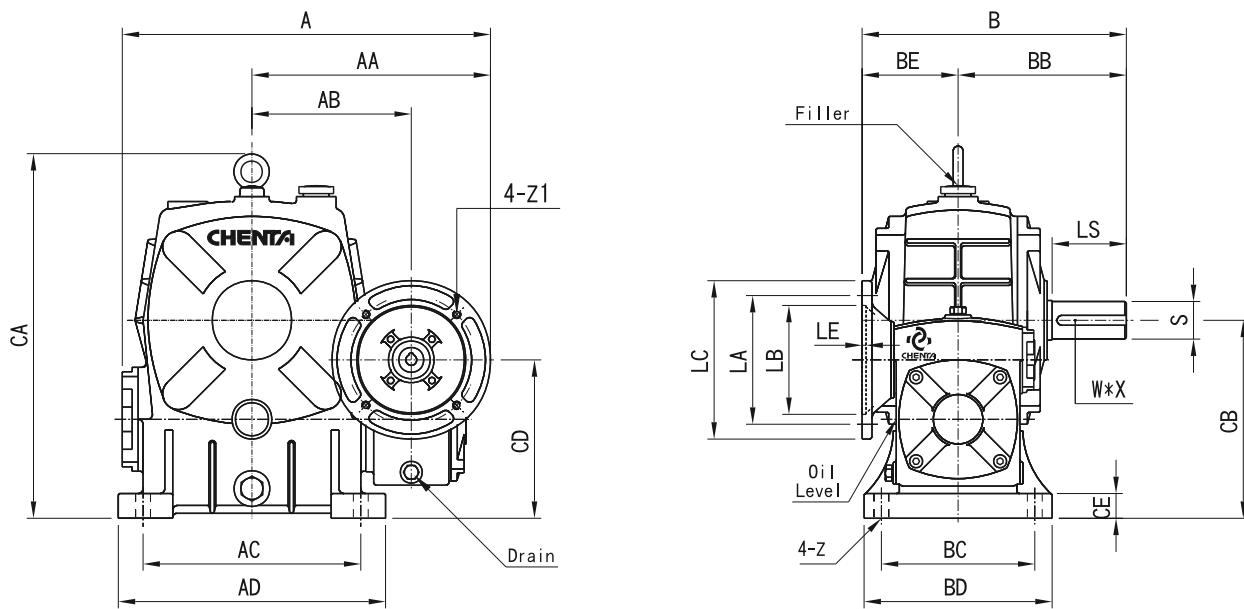


Model : ASX

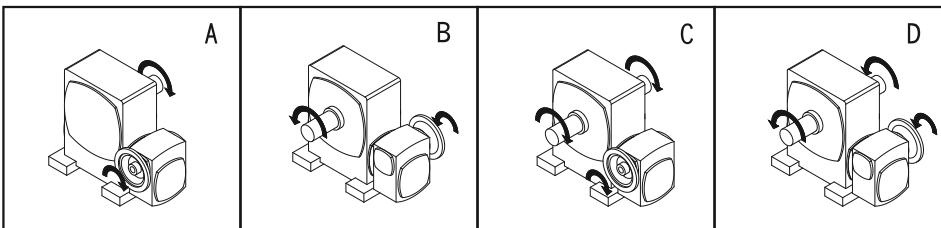
成大齒輪減速機

CHENTA

Size : 50/80~80/135



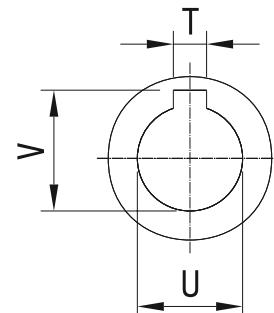
Shaft Direction



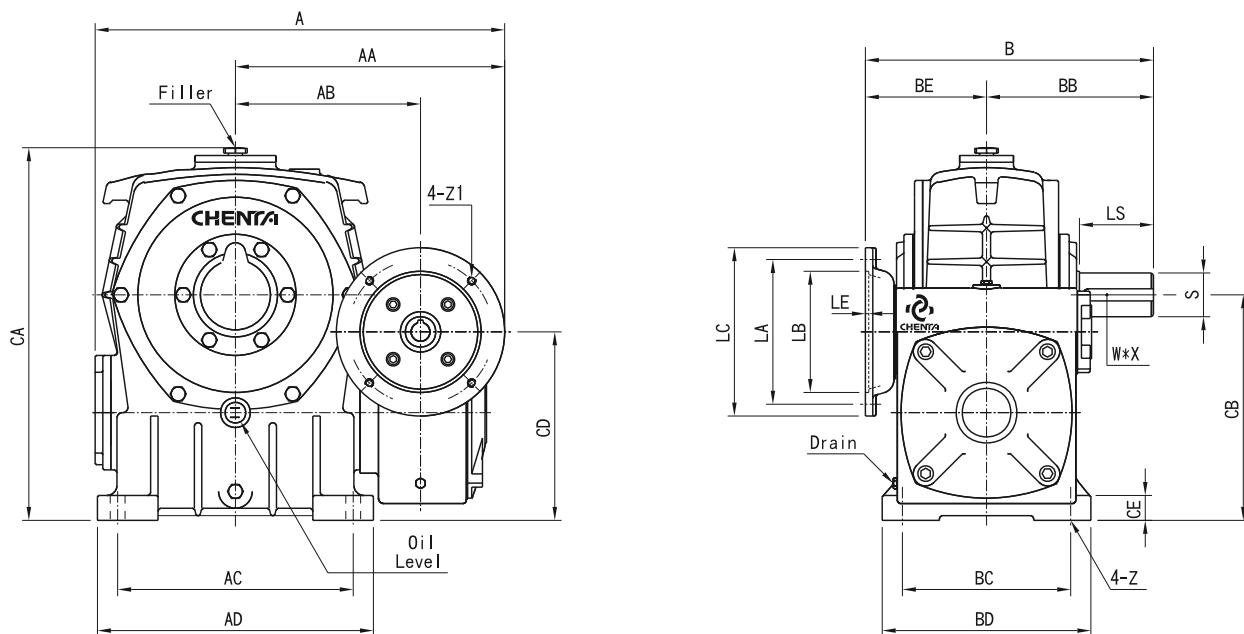
Unit:mm

| Size | Ratio | Input Bore | | | | | | | | | | | | | |
|--------|-----------------|------------|------------|-----|-----|-----|------------|-----|-----|-----|------------|-----|-----|-----|----|
| | | U | T | V | | | | | | | | | | | |
| 50-80 | 1/100 1/3600 | 316 | 212 | 132 | 180 | 220 | 237 | 140 | 135 | 170 | 96 | 271 | 160 | 130 | 23 |
| 60-100 | | 372 | 241 | 161 | 220 | 270 | 267 | 170 | 155 | 190 | 97 | 372 | 200 | 160 | 25 |
| 70-120 | | 428 448 | 272 292 | 192 | 260 | 320 | 308 310 | 190 | 180 | 230 | 118 120 | 435 | 240 | 190 | 30 |
| 80-135 | | 481 | 311 | 211 | 290 | 350 | 340 | 210 | 200 | 250 | 130 | 490 | 270 | 215 | 30 |

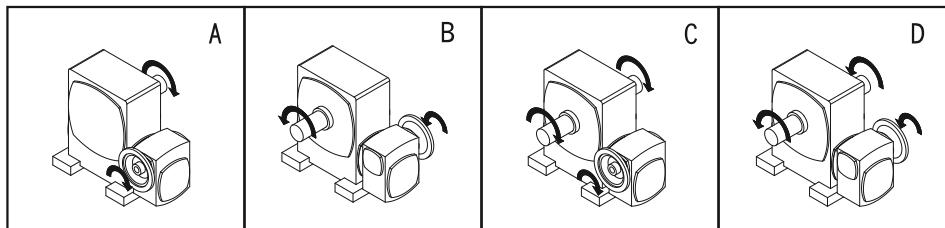
| Size | Output Shaft | | | Flange | | | | HP | Oil (l) | Weight (kg) | |
|--------|--------------|----|------|------------|------------|------------|--------|-----------|------------|-------------|-------|
| | LS | S | W*X | LA | LB | LC | LE | | | | |
| 50-80 | 65 | 32 | 10*5 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 1.2 | 24.9 |
| 60-100 | 75 | 38 | 10*5 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 2.2 | 48.1 |
| 70-120 | 85 | 45 | 12*5 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2 1 | 3.2 | 75.5 |
| 80-135 | 95 | 55 | 15*5 | 165 | 130 | 200 | 5 | M10 | 1 2 | 4.3 | 100.2 |



INPUT-BORE VIEW



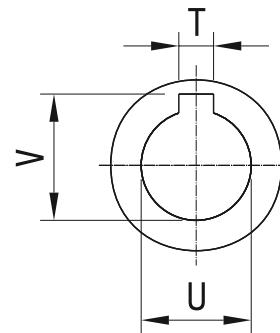
Shaft Direction



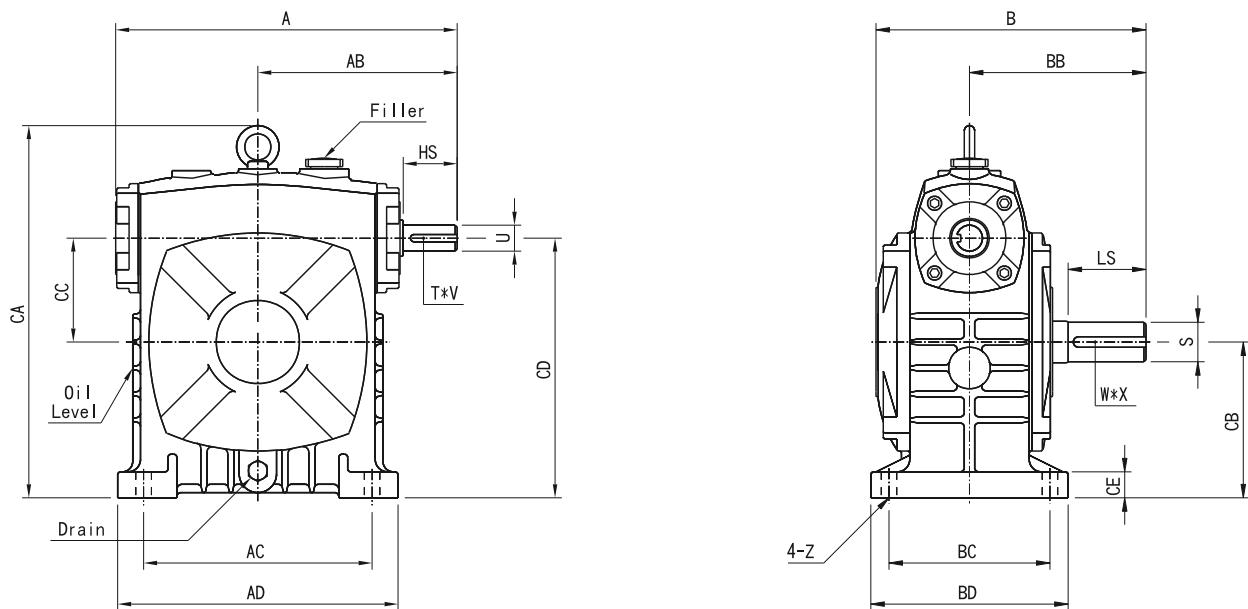
Unit:mm

| Size | Ratio | Input Bore | | | | | | | | | | | | | | | | | |
|---------|-------|------------|------------|-------|-----|-----|------------|-----|-----|-----|------------|-----|-----|-----|----|----|----------|---------|--------------|
| | | A | AA | AB | AC | AD | B | BB | BC | BD | BE | CA | CB | CD | CE | Z | U | T | V |
| 100-155 | 1/100 | 545 574 | 357 382 | 257 | 320 | 385 | 382 407 | 242 | 220 | 280 | 140 165 | 487 | 290 | 235 | 32 | 20 | 24 28 | 8 8 | 27.3 31.3 |
| 120-175 | | 608 | 400 | 275 | 350 | 410 | 428 | 248 | 250 | 310 | 180 | 553 | 335 | 280 | 37 | 20 | 28 | 8 | 31.3 |
| 120-200 | | 687 | 437 | 312.5 | 350 | 420 | 485 | 305 | 280 | 350 | 180 | 637 | 390 | 310 | 35 | 22 | 28 | 8 | 31.3 |
| 135-225 | | 692 717 | 440 465 | 315 | 390 | 470 | 540 563 | 345 | 330 | 410 | 195 218 | 680 | 415 | 325 | 45 | 27 | 28 38 | 8 10 | 31.3 41.3 |
| 155-250 | | 817 | 515 | 365 | 440 | 520 | 596 | 360 | 380 | 440 | 236 | 742 | 450 | 355 | 40 | 27 | 38 | 10 | 41.3 |

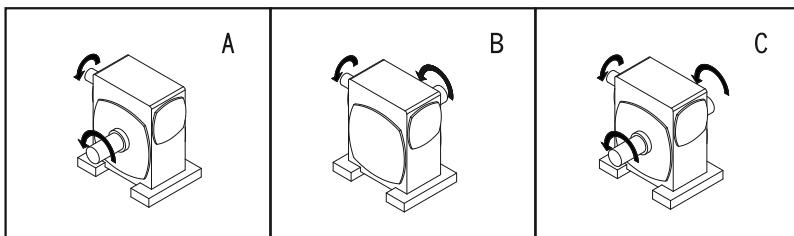
| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|---------|--------------|----|------|------------|------------|------------|----|------------|----------|---------|-------------|
| | LS | S | W*X | LA | LB | LC | LE | Z1 | | | |
| 100-155 | 100 | 60 | 15*5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 6.1 | 138.7 |
| 120-175 | 110 | 65 | 18*6 | 215 | 180 | 250 | 5 | M12 | 3 5 | 9.2 | 199.6 |
| 120-200 | 125 | 70 | 20*7 | 215 | 180 | 250 | 5 | 9 | 5 | 15 | 261 |
| 135-225 | 140 | 80 | 20*7 | 215 265 | 180 230 | 250 300 | 5 | M12 15 | 5 7.5 | 17 | 365 |
| 155-250 | 145 | 90 | 24*8 | 265 | 230 | 300 | 5 | 15 | 10 | 22 | 425 |



INPUT-BORE VIEW



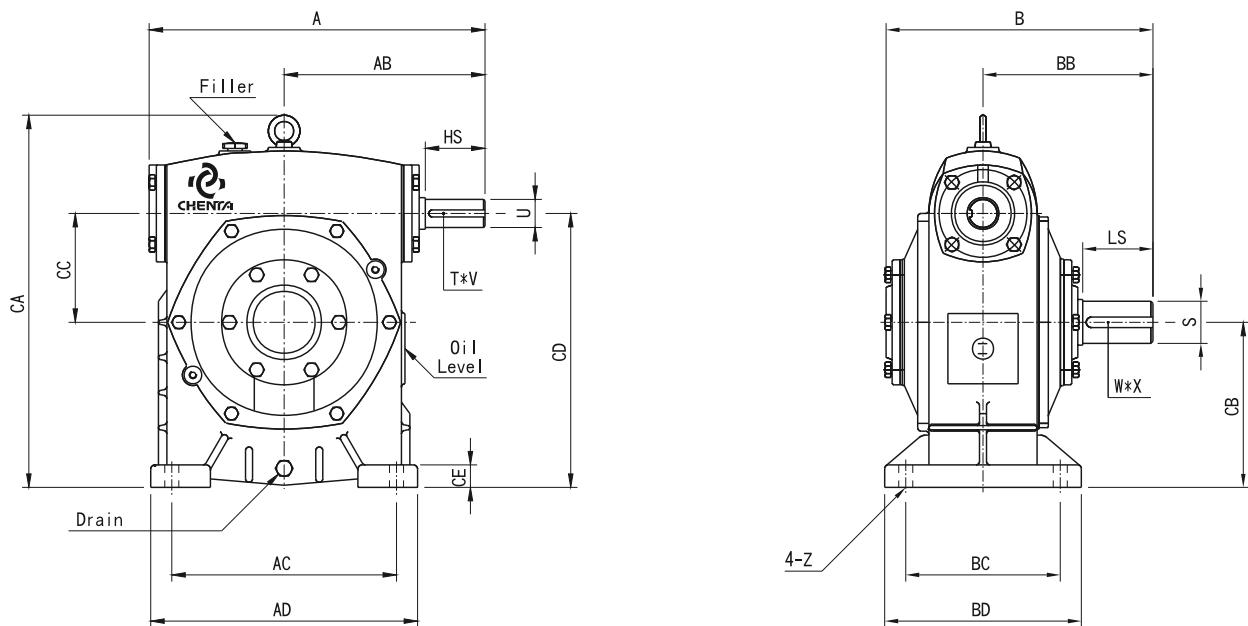
Shaft Direction



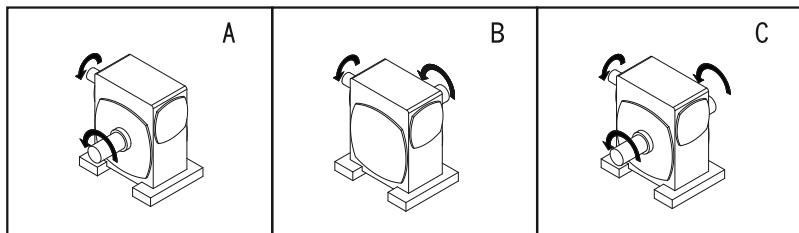
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CD | CE | Z |
|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 40 | 1/10 | 139 | 83 | 70 | 98 | 118 | 78 | 80 | 102 | 140 | 60 | 40 | 100 | 10 | 9 |
| 50 | 1/15 | 181 | 107 | 110 | 140 | 147 | 95 | 95 | 120 | 175 | 80 | 50 | 130 | 15 | 11 |
| 60 | 1/20 | 204 | 124 | 120 | 150 | 168 | 110 | 105 | 130 | 200 | 90 | 60 | 150 | 18 | 11 |
| 70 | 1/30 | 235 | 140 | 150 | 190 | 196 | 130 | 115 | 150 | 235 | 105 | 70 | 175 | 20 | 15 |
| 80 | 1/40 | 265 | 160 | 180 | 220 | 216 | 140 | 135 | 170 | 260 | 120 | 80 | 200 | 20 | 15 |
| 100 | 1/50 | 328 | 192 | 220 | 270 | 262 | 170 | 155 | 190 | 359 | 150 | 100 | 250 | 25 | 15 |
| 120 | 1/60 | 389 | 230 | 260 | 320 | 288 | 190 | 180 | 230 | 425 | 180 | 120 | 300 | 30 | 18 |
| 135 | | 435 | 260 | 290 | 350 | 320 | 210 | 200 | 250 | 478 | 215 | 135 | 350 | 30 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|--------------|----|--------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 40 | 24.5 | 12 | 4 * 2.5 | 35 | 16 | 5 * 3 | 0.2 | 4.7 |
| 50 | 30 | 12 | 4 * 2.5 | 40 | 17 | 5 * 3 | 0.4 | 6.5 |
| 60 | 40 | 15 | 5 * 3 | 50 | 22 | 7 * 4 | 0.5 | 8.5 |
| 70 | 40 | 18 | 5 * 3 | 60 | 28 | 7 * 4 | 0.8 | 14 |
| 80 | 50 | 22 | 7 * 4 | 65 | 32 | 10 * 5 | 1.2 | 19 |
| 100 | 50 | 25 | 7 * 4 | 75 | 38 | 10 * 5 | 2.2 | 38 |
| 120 | 65 | 30 | 7 * 4 | 85 | 45 | 12 * 5 | 4.2 | 64 |
| 135 | 75 | 35 | 10 * 5 | 95 | 55 | 15 * 5 | 6 | 85 |



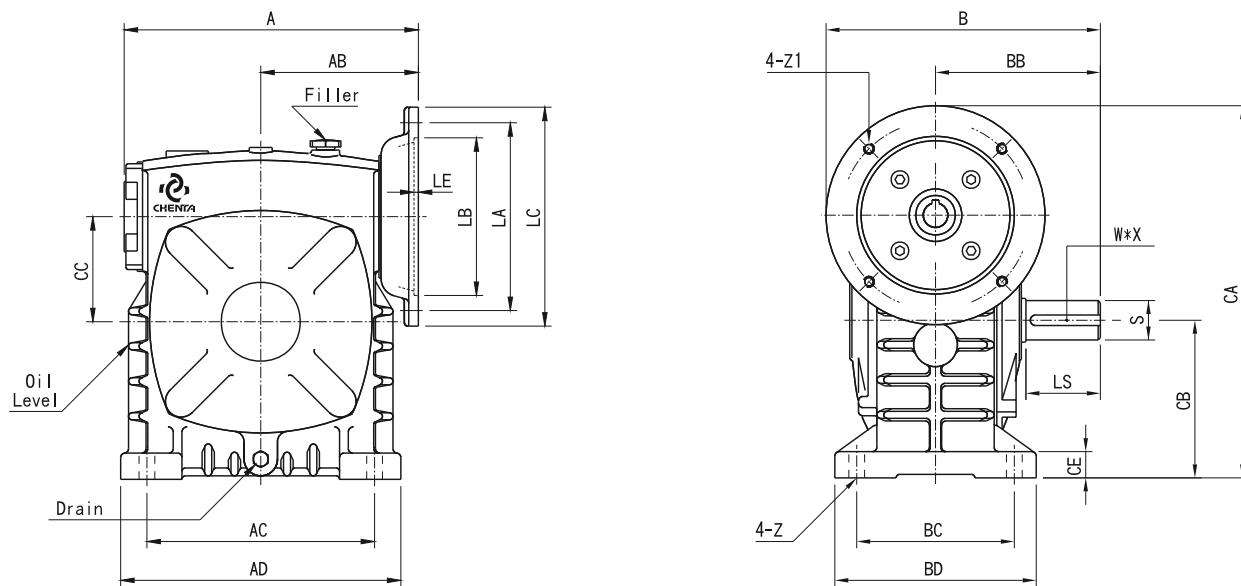
Shaft Direction



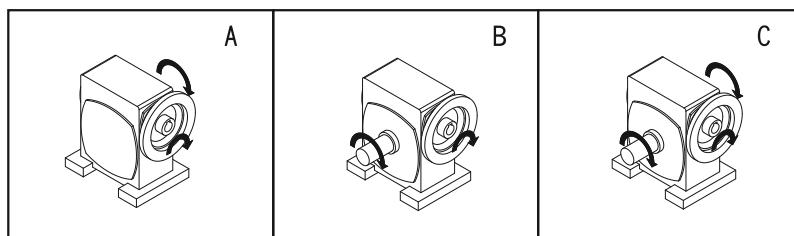
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CD | CE | Z |
|------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-------|
| 155 | 1/10 1/40 1/15 1/50 | 479 | 286 | 320 | 380 | 381 | 242 | 220 | 280 | 536 | 235 | 155 | 390 | 32 | 20 |
| 175 | | 517 | 308 | 350 | 410 | 381 | 248 | 250 | 310 | 587 | 260 | 175 | 435 | 35 | 20 |
| 200 | 1/20 1/30 1/60 | 697 | 357 | 350 | 420 | 479 | 305 | 280 | 350 | 650 | 290 | 200 | 490 | 35 | 22 |
| 225 | | 709 | 361 | 340 | 456 | 495 | 345 | 240 | 330 | 656 | 320 | 225 | 545 | 40 | 26, 5 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|--------|--------------|----|--------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 155 | 85 | 40 | 10 * 5 | 100 | 60 | 15 * 5 | 7.4 | 115 |
| 175 | 85 | 45 | 12 * 5 | 110 | 65 | 18 * 6 | 11.5 | 160 |
| 200 | 95 | 50 | 12 * 5 | 120 | 70 | 20 * 7 | 15 | 235 |
| 225 | 95 | 55 | 15 * 5 | 140 | 80 | 20 * 7 | 21 | 375 |



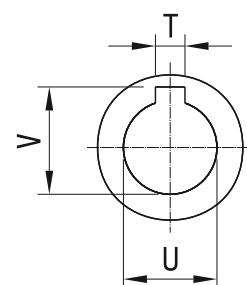
Shaft Direction



Unit:mm

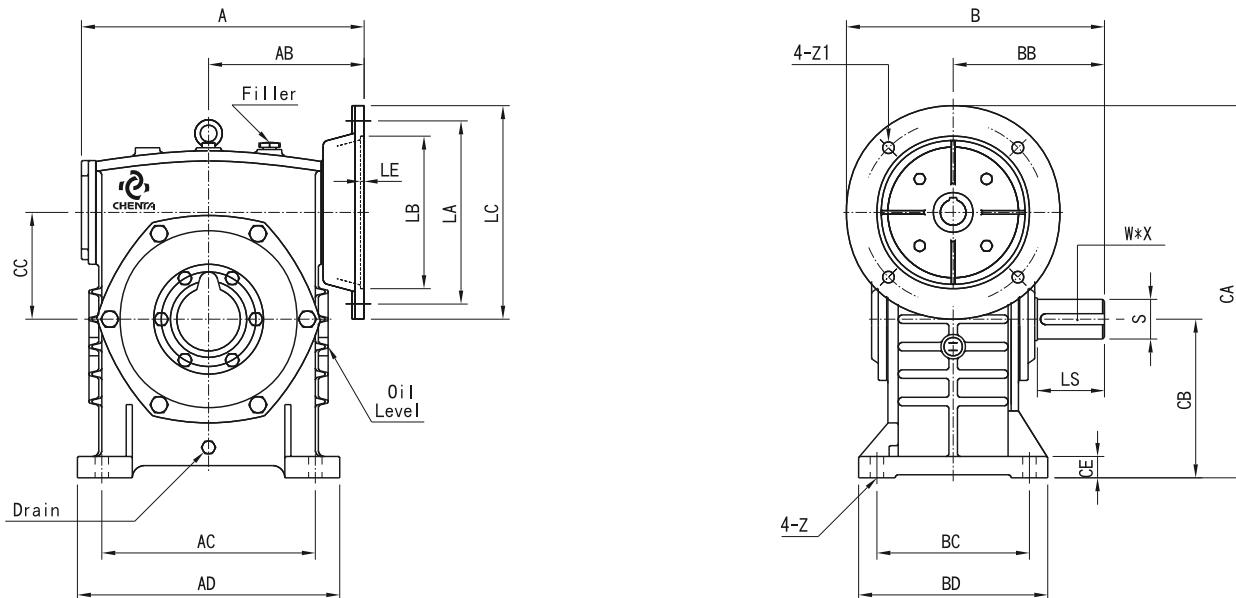
| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CE | Z | Input Bore | | |
|------|-------|------------|------------|-----|-----|------------|-----|-----|-----|------------|-----|-----|----|----|------------|---------|-------------|
| | | | | | | | | | | | | | | | U | T | V |
| 50 | 1/10 | 173 | 96 | 110 | 140 | 175 | 95 | 95 | 120 | 210 | 80 | 50 | 18 | 11 | 11 14 | 4 5 | 12. 16 |
| 60 | 1/15 | 177 | 97 | 120 | 150 | 190 | 110 | 105 | 130 | 230 | 90 | 60 | 20 | 11 | 11 14 | 4 5 | 12. 16 |
| 70 | 1/20 | 213 223 | 118 120 | 150 | 190 | 210 230 | 130 | 115 | 150 | 255 275 | 105 | 70 | 22 | 15 | 14 19 | 5 6 | 16. 21.8 |
| 80 | 1/30 | 234 | 130 | 180 | 220 | 240 | 140 | 135 | 170 | 300 | 120 | 80 | 20 | 15 | 19 24 | 6 8 | 21. 27.3 |
| 100 | 1/40 | 273 278 | 140 142 | 220 | 270 | 270 295 | 170 | 155 | 190 | 350 375 | 150 | 100 | 25 | 15 | 24 28 | 8 8 | 27. 31.3 |
| 120 | 1/50 | 334 | 180 | 260 | 320 | 315 | 190 | 180 | 230 | 425 | 180 | 120 | 30 | 18 | 28 | 8 | 31.3 |
| 135 | 1/60 | 370 390 | 195 218 | 290 | 350 | 335 360 | 210 | 200 | 250 | 475 500 | 215 | 135 | 30 | 18 | 28 38 | 8 10 | 31. 41.3 |

| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|--------|------------|------------|------------|--------|------------|------------|---------|-------------|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 50 | 40 | 17 | 5 * 3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.22 | 7.2 |
| 60 | 50 | 22 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.32 | 10 |
| 70 | 60 | 28 | 7 * 4 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2 1 | 0.55 | 15 |
| 80 | 65 | 32 | 10 * 5 | 165 | 130 | 200 | 4 | M10 | 1 2 | 0.77 | 20.2 |
| 100 | 75 | 38 | 10 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 1.53 | 39.5 |
| 120 | 85 | 45 | 12 * 5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 2.4 | 65 |
| 135 | 95 | 55 | 15 * 5 | 215 265 | 180 230 | 250 300 | 5 | M12 15 | 5 7.5 | 3.25 | 85.2 |

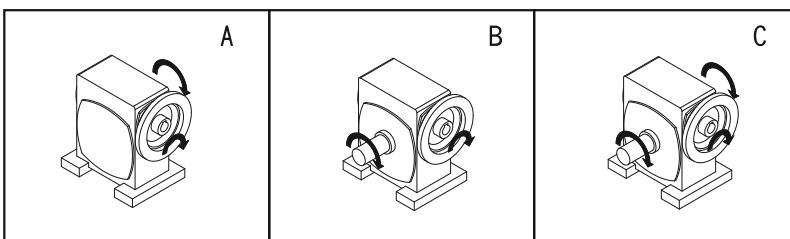


INPUT-BORE VIEW

Size : 155~175



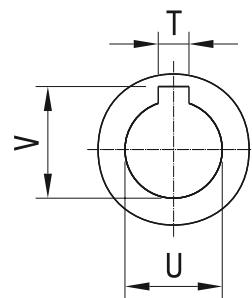
Shaft Direction



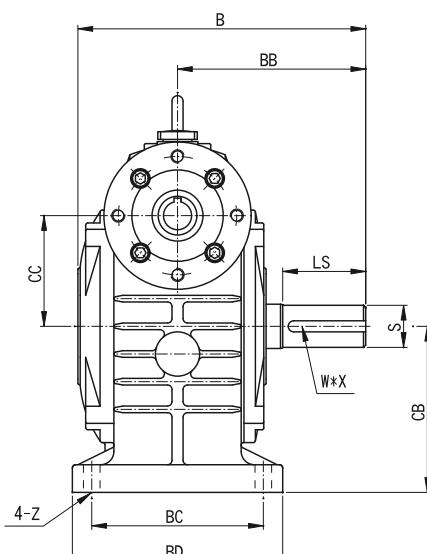
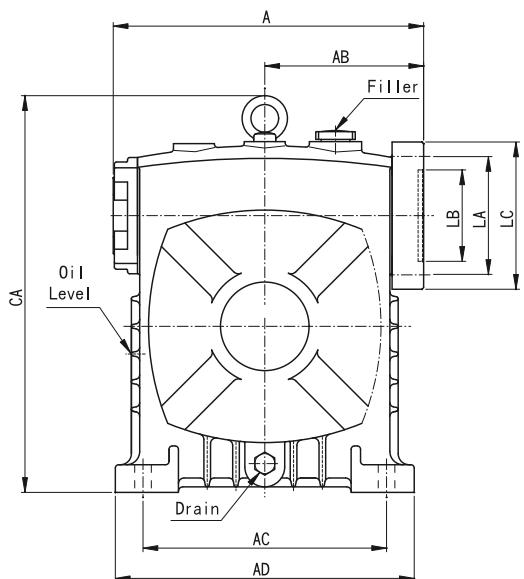
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CE | Z | Input Bore | | | |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|------------|----|------|------|
| | | | | | | | | | | | | | | | U | T | V | |
| 155 | 1/10 1/40 | 430 | 236 | 320 | 380 | 392 | 242 | 220 | 280 | 540 | 235 | 155 | 32 | 20 | 38 | 10 | 41.3 | |
| | 1/15 1/50 | 420 | 212 | 350 | 410 | 398 | 248 | 250 | 310 | 585 | 610 | 260 | 175 | 35 | 20 | 38 | 12 | 45.3 |
| 175 | 1/20 1/60 | 465 | 255 | 350 | 410 | 423 | 248 | 250 | 310 | 610 | 610 | 260 | 175 | 35 | 20 | 42 | 12 | 45.3 |

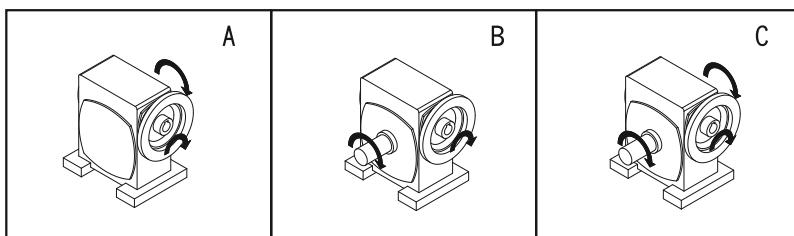
| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|--------|--------|-----|-----|-----|-----|-----|---------|-------------|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 155 | 100 | 60 | 15 * 5 | 265 | 230 | 300 | 4.5 | 15 | 7.5 | 11.5 | 115 |
| 175 | 110 | 65 | 18 * 6 | 265 | 230 | 300 | 5 | M12 | 10 | 7.4 | 160 |



INPUT-BORE VIEW



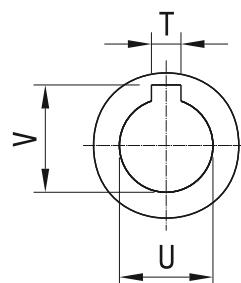
Shaft Direction



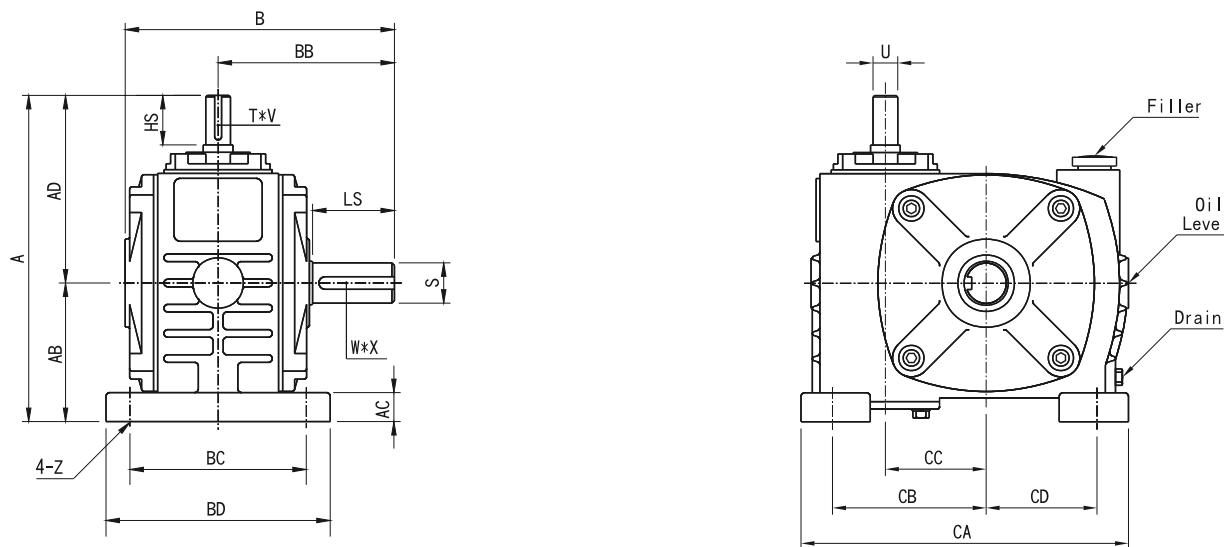
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CE | Z | Input Bore | | |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------------|------|------|
| | | | | | | | | | | | | | | | U | T | V |
| 100 | 1/10 1/40 | 280 | 144 | 220 | 270 | 262 | 170 | 155 | 190 | 359 | 150 | 100 | 25 | 15 | 25.4 | 6.35 | 28.5 |
| 120 | 1/15 1/50 | 311 | 155 | 260 | 320 | 288 | 190 | 180 | 230 | 425 | 180 | 120 | 30 | 18 | 25.4 | 6.35 | 28.5 |
| 135 | 1/30 1/60 | 350 | 178 | 290 | 350 | 320 | 210 | 200 | 250 | 478 | 215 | 135 | 30 | 18 | 25.4 | 6.35 | 28.5 |

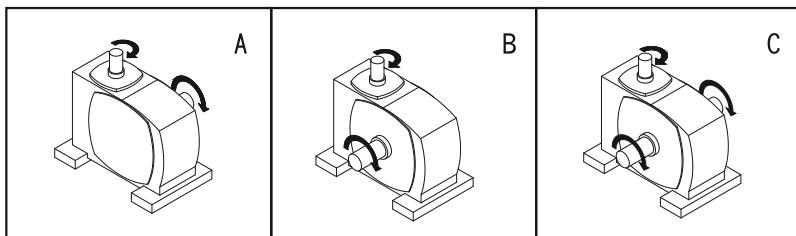
| Size | Output Shaft | | | Flange | | | | | Z1 |
|------|--------------|----|--------|--------|-------|-----|----|-----|----|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | |
| 100 | 75 | 38 | 10 * 5 | 107 | 82,55 | 133 | 5 | M12 | |
| 120 | 85 | 45 | 12 * 5 | 107 | 82,55 | 145 | 7 | M12 | |
| 135 | 95 | 55 | 15 * 5 | 107 | 82,55 | 153 | 10 | M12 | |



INPUT-BORE VIEW



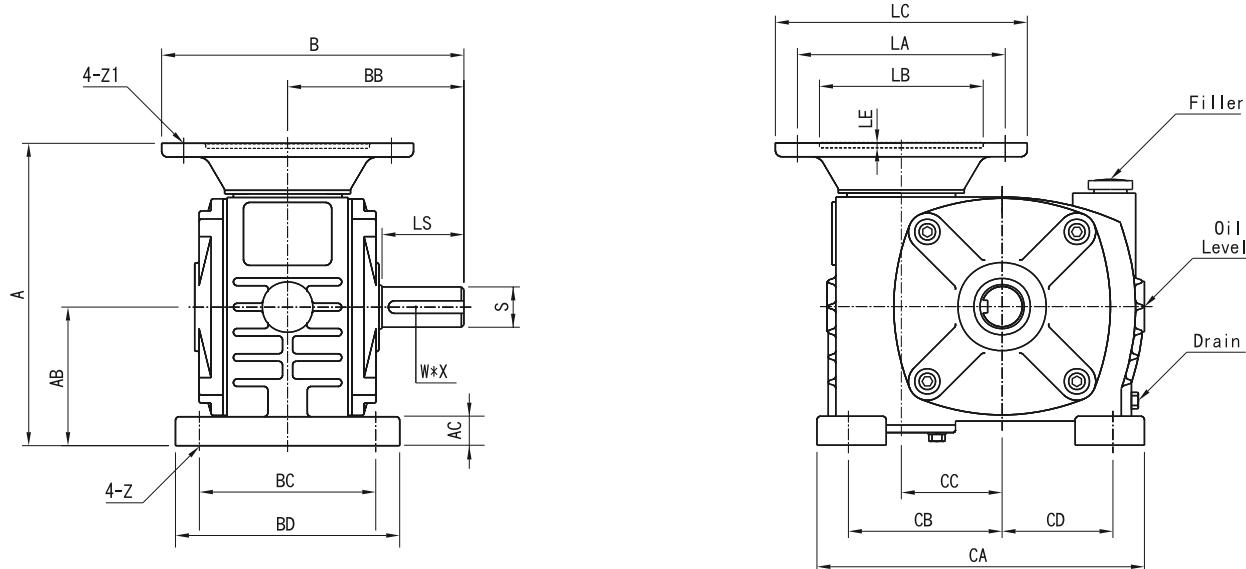
Shaft Direction



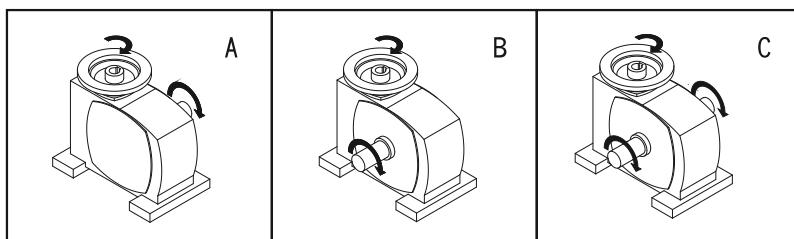
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CD | Z |
|------|-------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 50 | 1/10 | 177 | 70 | 15 | 107 | 147 | 95 | 100 | 125 | 161 | 77 | 50 | 53 | 11 |
| 60 | 1/15 | 214 | 90 | 20 | 124 | 168 | 110 | 105 | 136 | 205 | 98 | 60 | 67 | 11 |
| 70 | 1/20 | 250 | 110 | 20 | 140 | 196 | 130 | 120 | 155 | 196 | 100 | 70 | 55 | 15 |
| 80 | 1/30 | 265 | 105 | 20 | 160 | 216 | 140 | 125 | 160 | 264 | 125 | 80 | 90 | 15 |
| 100 | 1/40 | 327 | 135 | 25 | 192 | 260 | 170 | 170 | 205 | 320 | 157 | 100 | 115 | 15 |
| 120 | 1/50 | 385 | 155 | 30 | 230 | 288 | 190 | 180 | 230 | 352 | 170 | 120 | 120 | 18 |
| 135 | 1/60 | 430 | 170 | 30 | 260 | 320 | 210 | 200 | 250 | 390 | 200 | 135 | 130 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|--------------|----|--------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 50 | 30 | 12 | 4 * 2.5 | 40 | 17 | 5 * 3 | 0.3 | 7 |
| 60 | 40 | 15 | 5 * 3 | 50 | 22 | 7 * 4 | 0.5 | 11 |
| 70 | 40 | 18 | 5 * 3 | 60 | 28 | 7 * 4 | 1 | 14 |
| 80 | 50 | 22 | 7 * 4 | 65 | 32 | 10 * 5 | 1.2 | 19 |
| 100 | 50 | 25 | 7 * 4 | 75 | 38 | 10 * 5 | 2.8 | 36 |
| 120 | 65 | 30 | 7 * 4 | 85 | 45 | 12 * 5 | 4 | 55 |
| 135 | 75 | 35 | 10 * 5 | 95 | 55 | 15 * 5 | 5.5 | 65 |



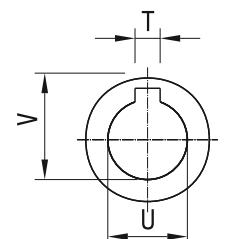
Shaft Direction



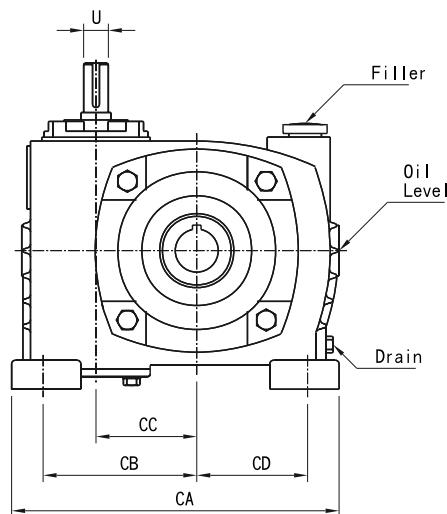
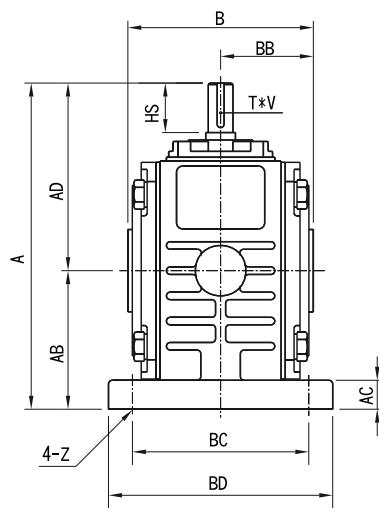
Unit:mm

| Size | Ratio | A | AB | AC | B | BB | BC | BD | CA | CB | CC | CD | Z | Input Bore | | |
|------|-------|------------|-----|----|------------|-----|-----|-----|-----|-----|-----|-----|----|------------|---------|--------------|
| | | | | | | | | | | | | | | U | T | V |
| 50 | 1/10 | 162 | 70 | 15 | 175 | 95 | 100 | 125 | 161 | 77 | 50 | 53 | 11 | 11 14 | 4 5 | 12.8 16.3 |
| 60 | 1/15 | 187 | 90 | 20 | 190 | 110 | 105 | 136 | 205 | 98 | 60 | 67 | 10 | 11 14 | 4 5 | 12.8 16.3 |
| 70 | 1/20 | 228 230 | 110 | 20 | 210 230 | 130 | 120 | 155 | 196 | 100 | 70 | 55 | 15 | 14 19 | 5 6 | 16.3 21.8 |
| 80 | 1/30 | 235 | 105 | 20 | 240 | 140 | 125 | 160 | 264 | 125 | 80 | 90 | 15 | 19 24 | 6 8 | 21.8 27.3 |
| 100 | 1/40 | 277 279 | 135 | 25 | 270 295 | 170 | 170 | 205 | 320 | 157 | 100 | 115 | 15 | 24 28 | 8 8 | 27.3 31.3 |
| 120 | 1/50 | 335 | 155 | 30 | 315 | 190 | 180 | 230 | 352 | 170 | 120 | 120 | 18 | 28 | 8 | 31.3 |
| 135 | 1/60 | 365 388 | 170 | 30 | 335 360 | 210 | 200 | 250 | 390 | 200 | 135 | 130 | 18 | 28 38 | 8 10 | 31.3 41.5 |

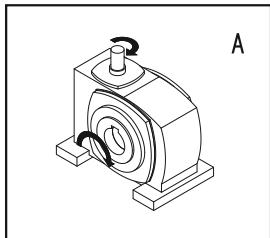
| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|--------|------------|------------|------------|--------|------------|------------|---------|-------------|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 50 | 40 | 17 | 5 * 3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.3 | 9 |
| 60 | 50 | 22 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.5 | 13 |
| 70 | 60 | 28 | 7 * 4 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2 1 | 1 | 16 |
| 80 | 65 | 32 | 10 * 5 | 165 | 130 | 200 | 5 | M10 | 1 2 | 1.2 | 23 |
| 100 | 75 | 38 | 10 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 2.8 | 40 |
| 120 | 85 | 45 | 12 * 5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 4 | 58 |
| 135 | 95 | 55 | 15 * 5 | 215 265 | 180 230 | 250 300 | 5 | M12 15 | 5 7.5 | 5.5 | 70 |



INPUT-BORE VIEW



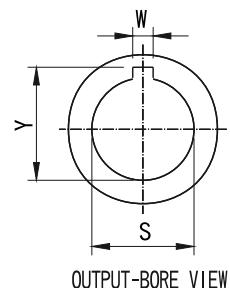
Shaft Direction



Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CD | Z |
|------|-------|-----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|-----|----|
| 50 | 1/10 | 177 | 70 | 15 | 107 | 110 | 55 | 100 | 125 | 161 | 77 | 50 | 53 | 11 |
| 60 | 1/15 | 214 | 90 | 20 | 124 | 117 | 58.5 | 105 | 136 | 205 | 98 | 60 | 67 | 11 |
| 70 | 1/20 | 250 | 110 | 20 | 140 | 130 | 65 | 120 | 155 | 196 | 100 | 70 | 55 | 15 |
| 80 | 1/30 | 265 | 105 | 20 | 160 | 144 | 72 | 125 | 160 | 264 | 125 | 80 | 90 | 15 |
| 100 | 1/40 | 327 | 135 | 25 | 192 | 175 | 87.5 | 170 | 205 | 320 | 157 | 100 | 115 | 15 |
| 120 | 1/50 | 385 | 155 | 30 | 230 | 200 | 100 | 180 | 230 | 352 | 170 | 120 | 120 | 18 |
| 135 | 1/60 | 430 | 170 | 30 | 260 | 230 | 115 | 200 | 250 | 390 | 200 | 135 | 130 | 18 |

| Size | Input Shaft | | | Output Bore | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|-------------|----|------|---------|-------------|
| | HS | U | T * V | S | W | Y | | |
| 50 | 30 | 12 | 4 * 2.5 | 20 | 5 | 22.3 | 0.3 | 7 |
| 60 | 40 | 15 | 5 * 3 | 25 | 7 | 28 | 0.5 | 11 |
| 70 | 40 | 18 | 5 * 3 | 30 | 8 | 33.3 | 1 | 14 |
| 80 | 50 | 22 | 7 * 4 | 35 | 10 | 38.5 | 1.2 | 19 |
| 100 | 50 | 25 | 7 * 4 | 40 | 12 | 43.5 | 2.8 | 36 |
| 120 | 65 | 30 | 7 * 4 | 45 | 12 | 48.5 | 4 | 53 |
| 135 | 75 | 35 | 10 * 5 | 60 | 15 | 65 | 5.5 | 65 |



OUTPUT-BORE VIEW

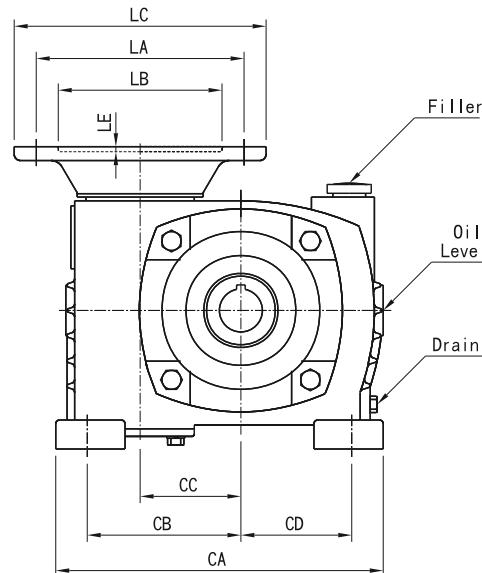
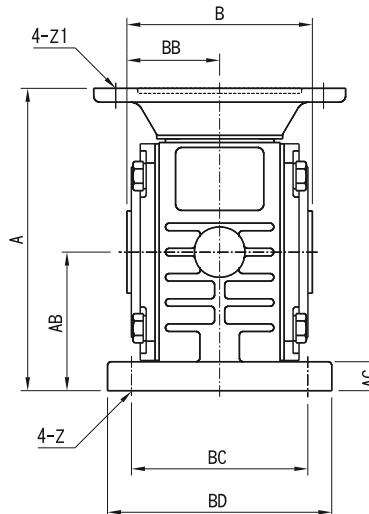


Model : CHM

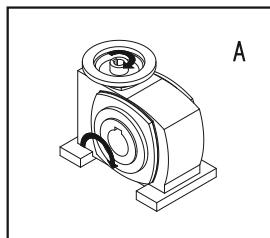
成大齒輪減速機

CHENTA

Size : 50~135



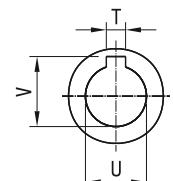
Shaft Direction



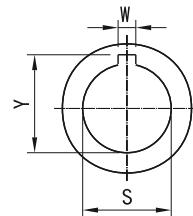
Unit:mm

| Size | Ratio | A | AB | AC | B | BB | BC | BD | CA | CB | CC | CD | Z | Input Bore | | |
|------|-------|------------|-----|----|-----|------|-----|-----|-----|-----|-----|-----|----|------------|----|------|
| | | | | | | | | | | | | | | U | T | V |
| 50 | 1/10 | 162 | 70 | 15 | 110 | 55 | 100 | 125 | 161 | 77 | 50 | 53 | 11 | 11 | 4 | 12.8 |
| | 1/15 | 187 | 90 | 20 | 117 | 58.5 | 105 | 136 | 205 | 98 | 60 | 67 | 10 | 14 | 5 | 16.3 |
| 60 | 1/20 | 228 230 | 110 | 20 | 130 | 65 | 120 | 155 | 196 | 100 | 70 | 55 | 15 | 14 | 4 | 12.8 |
| 70 | 1/30 | 235 | 105 | 20 | 144 | 72 | 125 | 160 | 264 | 125 | 80 | 90 | 15 | 19 | 5 | 21.8 |
| 80 | 1/40 | 277 279 | 135 | 25 | 175 | 87.5 | 170 | 205 | 320 | 157 | 100 | 115 | 15 | 24 | 6 | 27.3 |
| 100 | 1/50 | 310 | 155 | 30 | 200 | 100 | 180 | 230 | 352 | 170 | 120 | 120 | 18 | 28 | 8 | 31.3 |
| 120 | 1/60 | 365 388 | 170 | 30 | 230 | 115 | 200 | 250 | 390 | 200 | 135 | 130 | 18 | 28 | 8 | 31.3 |
| 135 | | | | | | | | | | | | | | 28 | 10 | 41.5 |

| Size | Output Bore | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|-------------|----|------|------------|------------|------------|--------|------------|------------|---------|-------------|
| | S | W | Y | LA | LB | LC | LE | Z1 | | | |
| 50 | 20 | 5 | 22.3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.3 | 9 |
| 60 | 25 | 7 | 28 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.5 | 13 |
| 70 | 30 | 8 | 33.3 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2 1 | 1 | 16 |
| 80 | 35 | 10 | 38.5 | 165 | 130 | 200 | 5 | M10 | 1 2 | 1.2 | 23 |
| 100 | 40 | 12 | 43.5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 2.8 | 40 |
| 120 | 45 | 12 | 48.5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 4 | 58 |
| 135 | 60 | 15 | 65 | 215 265 | 180 230 | 250 300 | 5 | M12 15 | 5 7.5 | 5.5 | 70 |

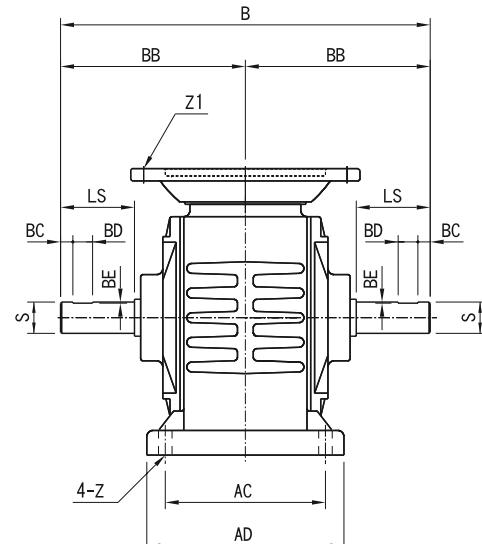
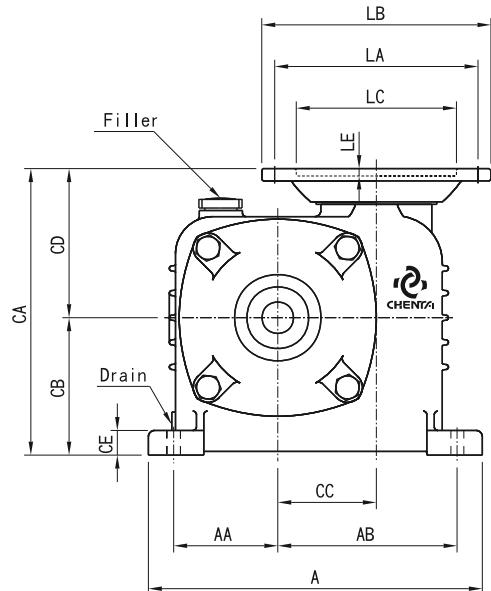


INPUT-BORE VIEW

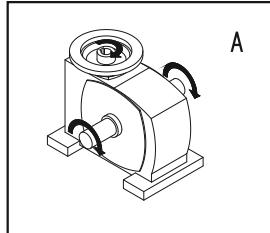


OUTPUT-BORE VIEW

Size : 80




Shaft Direction



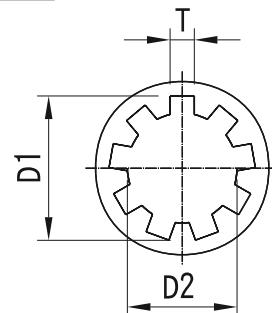
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BB | CA | CB | CC | CD | CE | Z | Input Bore | | |
|------|-------|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|------|------------|----|-----|
| | | | | | | | | | | | | | | | D1 | D2 | T |
| W80 | 1/15 | 265 | 85 | 145 | 130 | 155 | 300 | 155 | 232 | 112 | 80 | 120 | 17 | 1/2" | 25 | 19 | 4.2 |

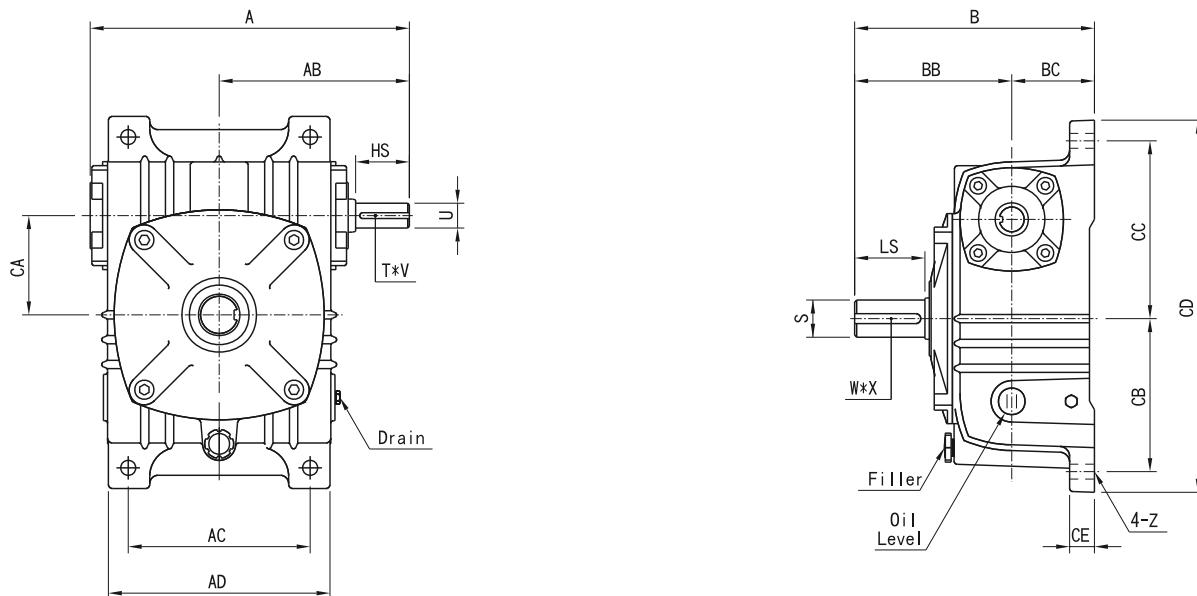
| Size | Output Shaft | | | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|------|----|----|-----|--------|-----|-----|----|----------|-----|---------|-------------|
| | LS | S | BC | BD | BE | LA | LB | LC | LE | Z1 | | | |
| W80 | 60 | 25.4 | 10 | 16 | 0.9 | 165 | 186 | 130 | 6 | 3/8" UNC | 1/2 | 1.2 | 25 |

註：螺絲及出力軸皆採用 SUS304

*SUS304 for output shaft and screws

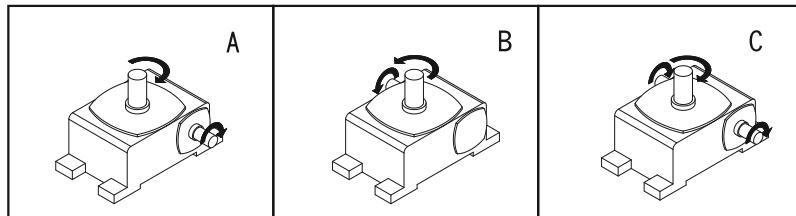


INPUT-BORE VIEW



25

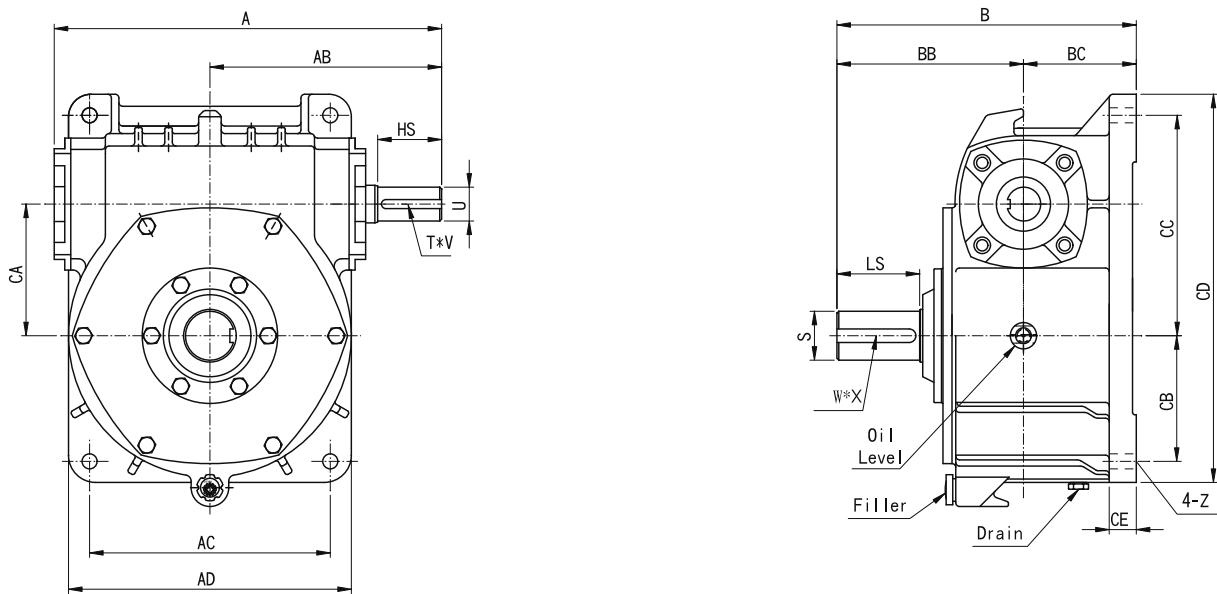
Shaft Direction



Unit:mm

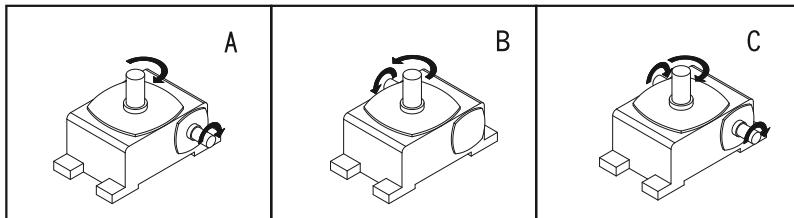
| Size | Ratio | A | AB | AC | AD | B | BB | BC | CA | CB | CC | CD | CE | Z |
|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 40 | 1/10 1/15 1/20 1/30 1/40 1/50 1/60 | 140 | 83 | 70 | 95 | 120 | 78 | 42 | 40 | 65 | 85 | 180 | 14 | 9 |
| 50 | | 179 | 107 | 90 | 118 | 145 | 95 | 50 | 50 | 93 | 102 | 220 | 18 | 11 |
| 60 | | 201 | 124 | 100 | 126 | 165 | 110 | 55 | 60 | 105 | 120 | 260 | 20 | 11 |
| 70 | | 235 | 140 | 120 | 156 | 195 | 130 | 65 | 70 | 120 | 135 | 295 | 20 | 15 |
| 80 | | 265 | 160 | 140 | 176 | 213 | 140 | 73 | 80 | 130 | 150 | 320 | 20 | 15 |
| 100 | | 328 | 190 | 190 | 226 | 260 | 170 | 90 | 100 | 155 | 180 | 375 | 30 | 15 |
| 120 | | 389 | 230 | 220 | 268 | 290 | 190 | 100 | 120 | 185 | 215 | 450 | 30 | 18 |
| 135 | | 430 | 260 | 260 | 295 | 320 | 210 | 110 | 135 | 210 | 235 | 495 | 30 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 40 | 25 | 12 | 4 * 2,5 | 35 | 16 | 5 * 3 | 0,2 | 4,1 |
| 50 | 30 | 12 | 4 * 2,5 | 40 | 17 | 5 * 3 | 0,4 | 6,5 |
| 60 | 40 | 15 | 5 * 3 | 50 | 22 | 7 * 4 | 0,6 | 9 |
| 70 | 40 | 18 | 5 * 3 | 60 | 28 | 7 * 4 | 1,1 | 13 |
| 80 | 50 | 22 | 7 * 4 | 65 | 32 | 10 * 5 | 1,5 | 18 |
| 100 | 50 | 25 | 7 * 4 | 75 | 38 | 10 * 5 | 3,0 | 42 |
| 120 | 65 | 30 | 7 * 4 | 85 | 45 | 12 * 5 | 5,0 | 66 |
| 135 | 75 | 35 | 10 * 5 | 95 | 55 | 15 * 5 | 7,5 | 90 |



26

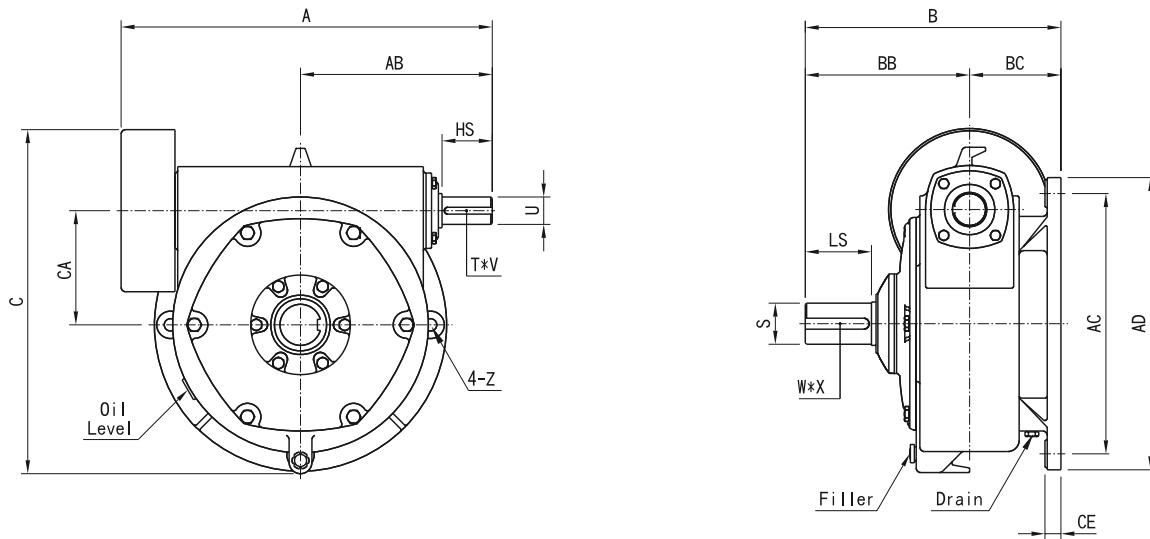
Shaft Direction



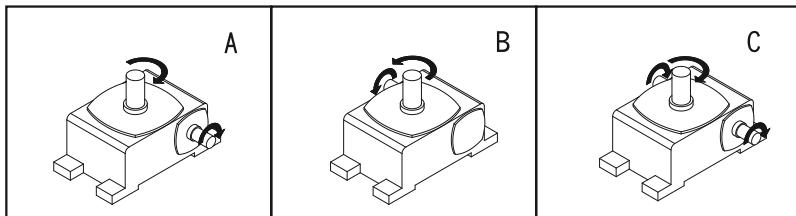
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | CA | CB | CC | CD | CE | Z |
|------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 155 | 1/10 1/40 1/15 1/50 | 479 | 286 | 290 | 336 | 382 | 242 | 140 | 155 | 145 | 265 | 456 | 30 | 20 |
| 175 | 1/20 1/60 1/30 | 515 | 308 | 320 | 376 | 398 | 248 | 150 | 175 | 167 | 293 | 516 | 35 | 20 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|--------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 155 | 85 | 40 | 10 * 5 | 100 | 60 | 15 * 5 | 9.2 | 115 |
| 175 | 85 | 45 | 12 * 5 | 110 | 65 | 18 * 6 | 10.5 | 155 |



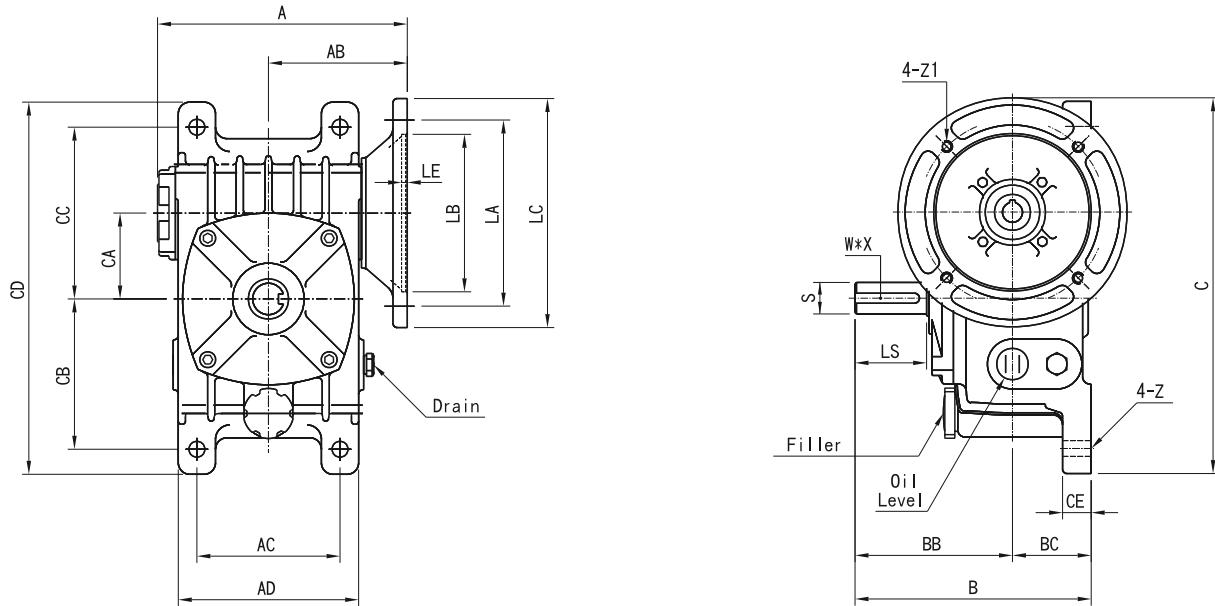
Shaft Direction



Unit:mm

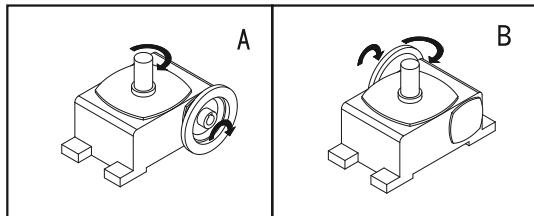
| Size | Ratio | A | AB | AC | AD | B | BB | BC | C | CA | CE | Z |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 200 | 1/10 1/40 | 698 | 357 | 450 | 510 | 495 | 305 | 190 | 643 | 200 | 30 | 22 |
| 225 | | 709 | 361 | 510 | 580 | 545 | 345 | 200 | 700 | 225 | 35 | 27 |
| 250 | 1/15 1/50 | 813 | 420 | 570 | 640 | 560 | 360 | 200 | 754 | 250 | 35 | 27 |
| 300 | | 943 | 495 | 660 | 750 | 645 | 410 | 235 | 853 | 300 | 42 | 36 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|--------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 200 | 95 | 50 | 12 * 5 | 125 | 70 | 20 * 7 | 12 | 220 |
| 225 | 95 | 55 | 15 * 5 | 140 | 80 | 20 * 7 | 17 | 315 |
| 250 | 110 | 60 | 15 * 5 | 145 | 90 | 24 * 8 | 23 | 365 |
| 300 | 125 | 70 | 18 * 6 | 170 | 95 | 24 * 8 | 45 | 520 |



28

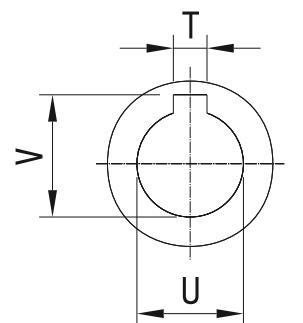
Shaft Direction



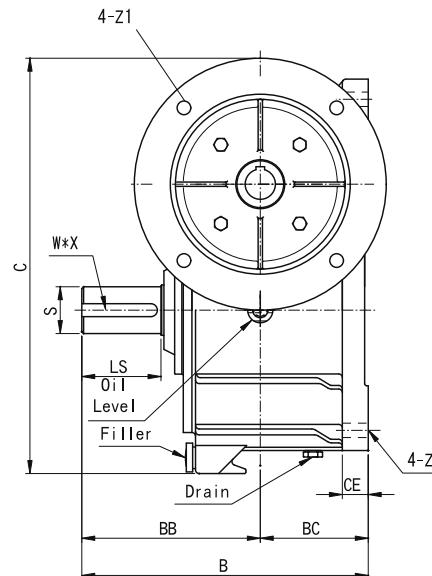
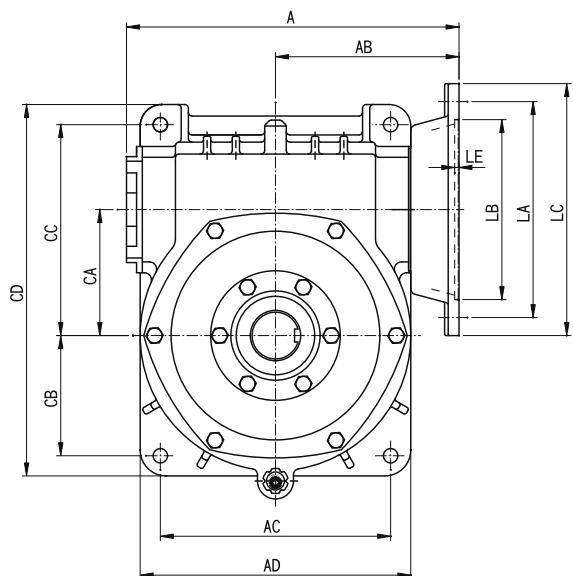
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | C | CA | CB | CC | CD | CE | Z | Input Bore | | |
|------|-------|------------|------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|----|----|------------|---------|------------|
| | | | | | | | | | | | | | | | | U | T | V |
| 50 | 1/10 | 170 | 97 | 90 | 116 | 145 | 95 | 50 | 236 | 50 | 93 | 102 | 220 | 18 | 11 | 11 14 | 4 5 | 12. 16 |
| 60 | 1/15 | 177 | 97 | 100 | 126 | 165 | 110 | 55 | 263 | 60 | 105 | 120 | 260 | 20 | 11 | 11 14 | 4 5 | 12. 16 |
| 70 | 1/20 | 213 223 | 118 120 | 120 | 156 | 195 | 130 | 65 | 290 310 | 70 | 120 | 135 | 295 | 20 | 15 | 14 19 | 5 6 | 16. 21. |
| 80 | 1/30 | 235 | 130 | 140 | 176 | 213 | 140 | 73 | 330 | 80 | 130 | 150 | 320 | 20 | 15 | 19 24 | 6 8 | 21. 27. |
| 100 | 1/40 | 273 278 | 140 142 | 190 | 226 | 260 | 170 | 90 | 375 400 | 100 | 155 | 180 | 375 | 30 | 15 | 24 28 | 8 8 | 27. 31. |
| 120 | 1/50 | 339 | 180 | 220 | 266 | 290 | 190 | 100 | 455 | 120 | 185 | 215 | 450 | 30 | 18 | 28 | 8 | 31.3 |
| 135 | 1/60 | 370 378 | 195 218 | 260 | 306 | 320 | 210 | 110 | 495 520 | 135 | 210 | 235 | 495 | 30 | 18 | 28 38 | 8 10 | 31. 41. |

| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|--------|------------|------------|------------|----|------------|------------|------------|----------------|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 50 | 40 | 17 | 5 * 3 | 130 | 110 | 160 | 5 | M8 | 1/4 1/2 | 0.4 | 6.5 |
| 60 | 50 | 22 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.6 | 9 |
| 70 | 60 | 28 | 7 * 4 | 130 165 | 110 130 | 160 200 | 4 | M8 M10 | 1/2 1 | 1.1 | 13 |
| 80 | 65 | 32 | 10 * 5 | 165 | 130 | 200 | 4 | M10 | 1 2 | 1.5 | 18 |
| 100 | 75 | 38 | 10 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 3 | 42 |
| 120 | 85 | 45 | 12 * 5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 5 | 66 |
| 135 | 95 | 55 | 15 * 5 | 215 265 | 180 230 | 250 300 | 5 | M12 M15 | 5 7.5 | 7.5 | 90 |

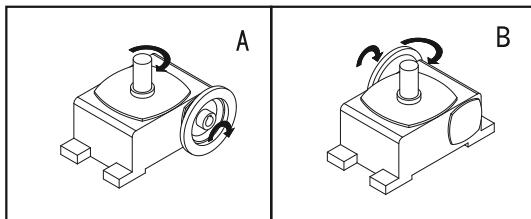


INPUT-BORE VIEW



29

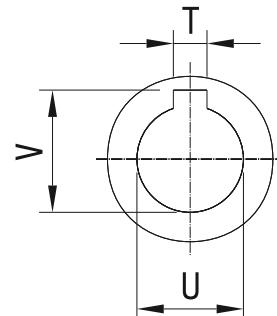
Shaft Direction



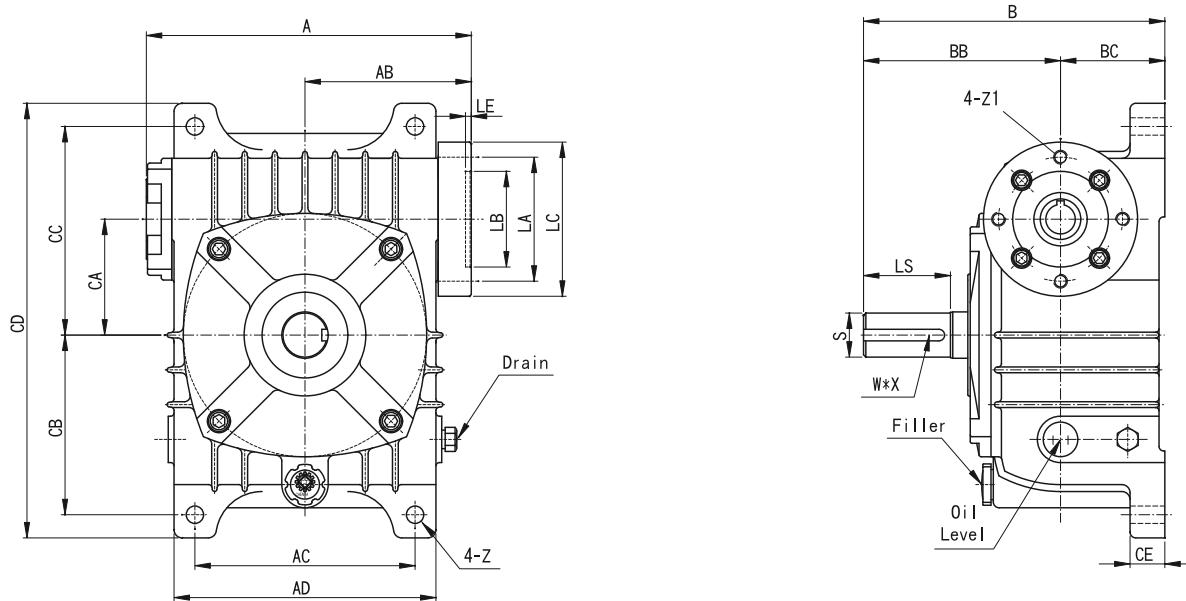
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | C | CA | CB | CC | CD | CE | Z | Input Bore | | |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------------|----|------|
| | | | | | | | | | | | | | | | | U | T | V |
| 155 | 1/10 1/40 | 430 | 236 | 290 | 336 | 382 | 242 | 140 | 521 | 155 | 145 | 265 | 456 | 30 | 20 | 38 | 10 | 41.3 |
| | 1/15 1/50 | 420 | 212 | 320 | 376 | 398 | 248 | 150 | 552 | 175 | 167 | 293 | 516 | 35 | 20 | 38 | 12 | 41.3 |
| 175 | 1/20 1/60 | 465 | 255 | 320 | 376 | 398 | 248 | 150 | 577 | 175 | 167 | 293 | 516 | 35 | 20 | 42 | 12 | 45.3 |
| | 1/30 | | | | | | | | | | | | | | | | | |

| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|--------|------------|------------|------------|--------|-----------|-----------|---------|-------------|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 155 | 100 | 60 | 15 * 5 | 265 | 230 | 300 | 4.5 | 15 | 7.5 10 | 9.2 | 115 |
| 175 | 110 | 65 | 18 * 6 | 265 300 | 230 250 | 300 350 | 5 6 | M12 19 | 10 15 | 10.5 | 155 |

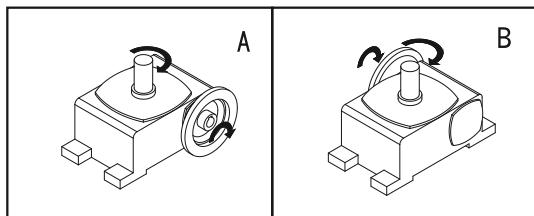


INPUT-BORE VIEW



30

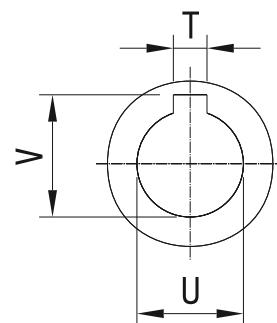
Shaft Direction



Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | BD | CA | CB | CC | CE | Z | Input Bore | | |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------------|------|------|
| | | | | | | | | | | | | | | | U | T | V |
| 100 | 1/10 1/40 | 280 | 144 | 190 | 226 | 260 | 170 | 90 | 100 | 155 | 180 | 375 | 30 | 15 | 25.4 | 6.35 | 28.5 |
| 120 | 1/15 | 311 | 155 | 220 | 268 | 290 | 190 | 100 | 120 | 185 | 215 | 450 | 30 | 18 | 25.4 | 6.35 | 28.5 |
| | 1/20 | | | | | | | | | | | | | | | | |
| 135 | 1/30 1/60 | 350 | 178 | 260 | 295 | 320 | 210 | 110 | 135 | 210 | 235 | 495 | 30 | 18 | 25.4 | 6.35 | 28.5 |
| | | | | | | | | | | | | | | | 31.75 | 7.94 | 35.5 |

| Size | Output Shaft | | | Flange | | | | | Z1 |
|------|--------------|----|--------|--------|-------|-----|----|-----|----|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | |
| 100 | 75 | 38 | 10 * 5 | 107 | 82,55 | 133 | 5 | M12 | |
| 120 | 85 | 45 | 12 * 5 | 107 | 82,55 | 145 | 7 | M12 | |
| 135 | 95 | 55 | 15 * 5 | 107 | 82,55 | 153 | 10 | M12 | |



INPUT-BORE VIEW

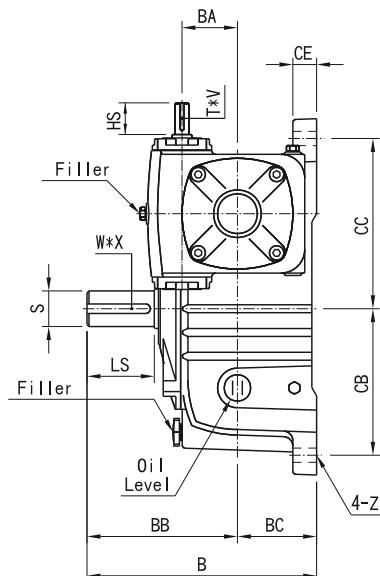
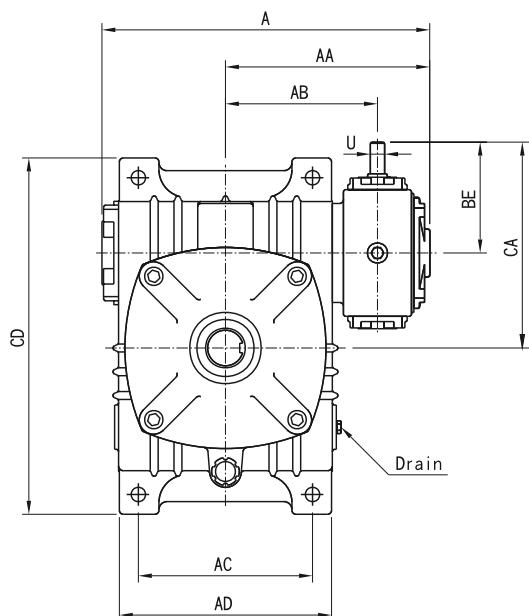


Model : ESF

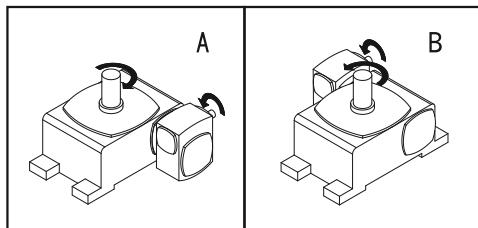
成大齒輪減速機

CHENTA

Size : 50/80~80/135



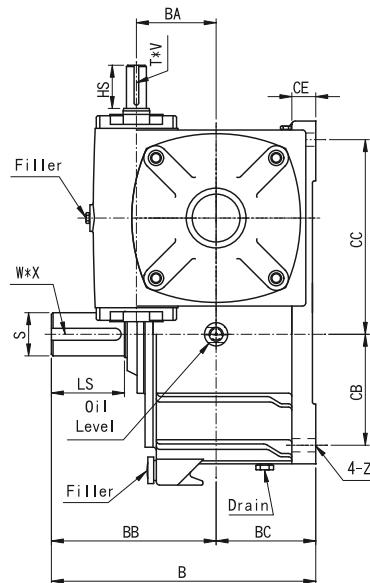
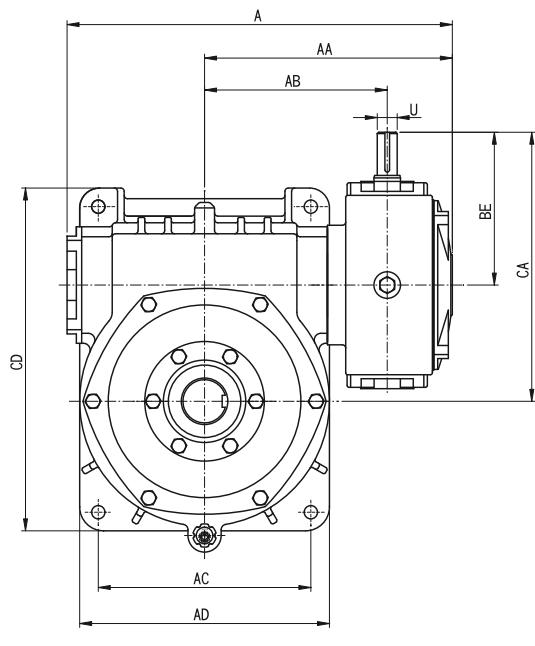
Shaft Direction



Unit:mm

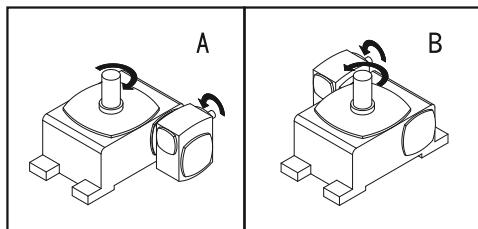
| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | Z | |
|--------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 50-80 | 1/100 1/3600 | 289 | 184 | 132 | 140 | 176 | 213 | 50 | 140 | 73 | 107 | 187 | 130 | 150 | 320 | 20 | 15 | |
| 60-100 | | 352 | 219 | 161 | 190 | 226 | 260 | 60 | 170 | 90 | 124 | 224 | 155 | 180 | 375 | 30 | 15 | |
| 70-120 | | 417 | 258 | 192 | 220 | 266 | 290 | 70 | 190 | 100 | 140 | 260 | 185 | 215 | 450 | 30 | 18 | |
| 80-135 | | | 462 | 287 | 211 | 260 | 295 | 320 | 80 | 210 | 110 | 160 | 295 | 210 | 235 | 495 | 30 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|--------|-------------|----|---------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 50-80 | 30 | 12 | 4 * 2.5 | 65 | 32 | 10 * 5 | 1.8 | 24 |
| 60-100 | 40 | 15 | 5 * 3 | 75 | 38 | 10 * 5 | 3.8 | 52 |
| 70-120 | 40 | 18 | 5 * 3 | 85 | 45 | 12 * 5 | 6 | 75 |
| 80-135 | 50 | 22 | 7 * 4 | 95 | 55 | 15 * 5 | 8.5 | 105 |



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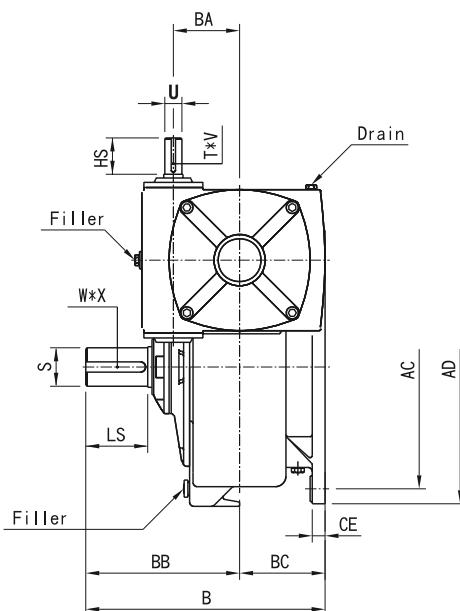
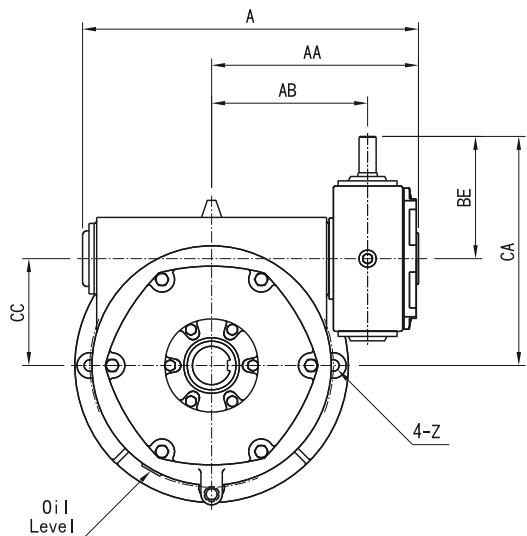
Shaft Direction



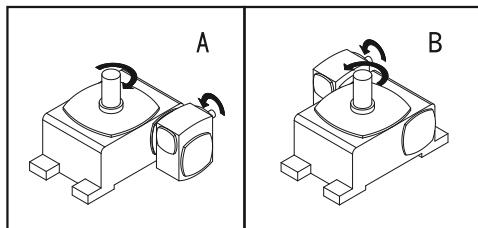
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | Z |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 100-155 | 1/100 | 540 | 340 | 257 | 290 | 336 | 382 | 100 | 242 | 140 | 192 | 347 | 145 | 265 | 456 | 30 | 20 |
| 120-175 | 1/3600 | 585 | 376 | 275 | 320 | 376 | 398 | 120 | 248 | 150 | 230 | 405 | 167 | 293 | 516 | 35 | 20 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|---------|-------------|----|-------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 100-155 | 50 | 25 | 7 * 4 | 100 | 60 | 15 * 5 | 12 | 135 |
| 120-175 | 65 | 30 | 7 * 4 | 110 | 65 | 18 * 6 | 15 | 192 |



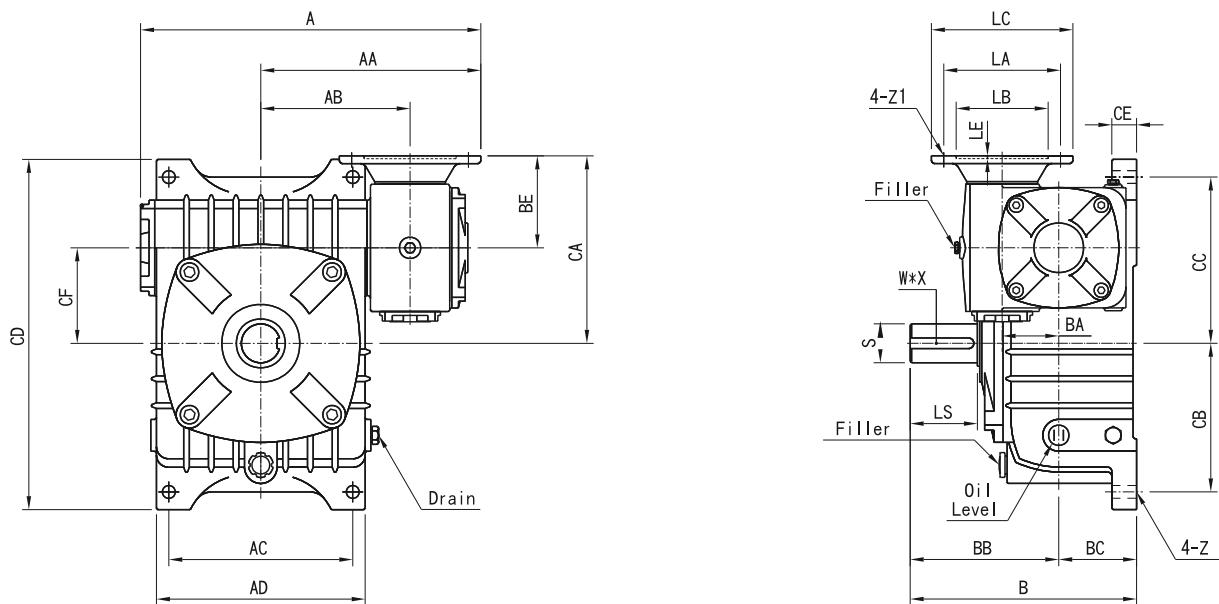
Shaft Direction



Unit:mm

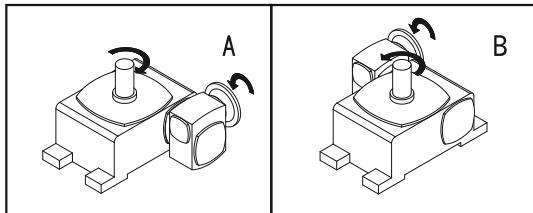
| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CC | CE | Z |
|---------|-------|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 120-200 | 1/100 | 653 | 414 | 312.5 | 450 | 510 | 495 | 120 | 305 | 190 | 230 | 430 | 200 | 30 | 22 |
| 135-225 | | 672 | 425 | 315 | 510 | 580 | 545 | 135 | 345 | 200 | 260 | 485 | 225 | 35 | 27 |
| 155-250 | | 786 | 483 | 365 | 570 | 640 | 560 | 155 | 360 | 200 | 286 | 536 | 250 | 35 | 27 |
| 175-300 | | 962 | 601 | 473 | 660 | 750 | 645 | 175 | 410 | 235 | 308 | 608 | 300 | 42 | 36 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|---------|-------------|----|--------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 120-200 | 65 | 30 | 7 * 4 | 125 | 70 | 20 * 7 | 19 | 270 |
| 135-225 | 75 | 35 | 10 * 5 | 140 | 80 | 20 * 7 | 24 | 375 |
| 155-250 | 85 | 40 | 10 * 5 | 145 | 90 | 24 * 8 | 32 | 430 |
| 175-300 | 85 | 45 | 12 * 5 | 170 | 95 | 24 * 8 | 55 | 584 |



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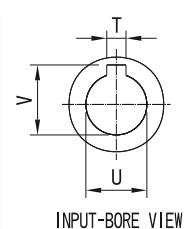
Shaft Direction

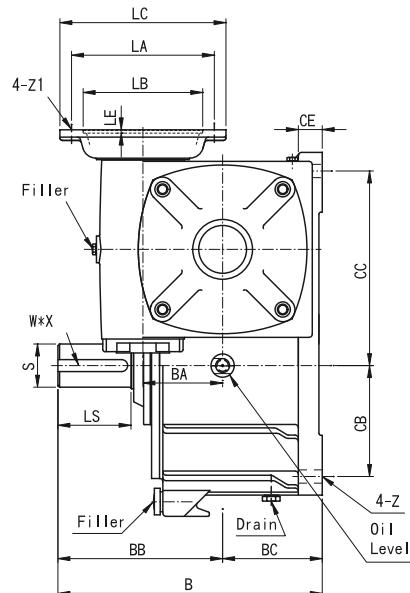
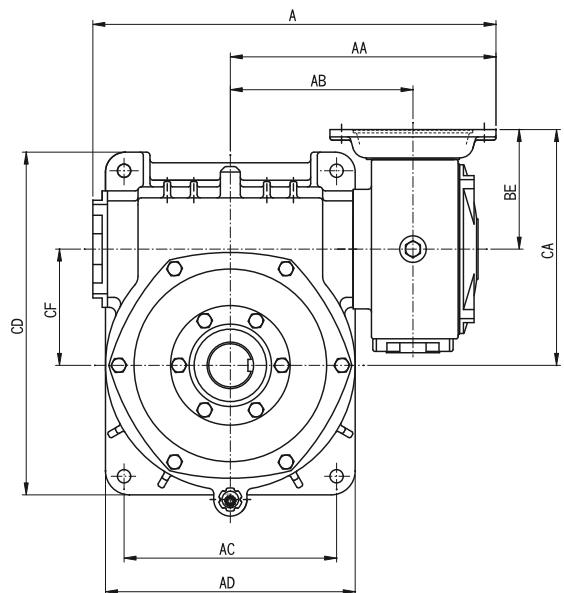


Unit:mm

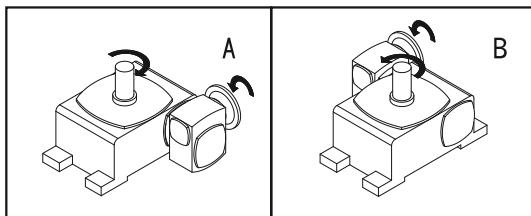
| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | CF | Z |
|--------|-----------------|------------|------------|-----|-----|-----|-----|----|-----|-----|------------|------------|-----|-----|-----|----|-----|----|
| 50-80 | 1/100 1/3600 | 317 | 212 | 132 | 140 | 176 | 213 | 50 | 140 | 73 | 96 | 176 | 130 | 150 | 320 | 20 | 80 | 15 |
| 60-100 | | 378 | 241 | 161 | 190 | 226 | 260 | 60 | 170 | 90 | 97 | 197 | 155 | 180 | 375 | 30 | 100 | 15 |
| 70-120 | | 428 448 | 272 292 | 192 | 220 | 266 | 290 | 70 | 190 | 100 | 118 120 | 238 240 | 185 | 215 | 450 | 30 | 120 | 18 |
| 80-135 | | 480 | 311 | 211 | 260 | 295 | 320 | 80 | 210 | 110 | 130 | 265 | 210 | 235 | 495 | 30 | 135 | 18 |

| Size | Input Bore | | | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|--------|------------|--------|--------------|--------------|----|--------|------------|------------|------------|--------|-----------|------------|---------|-------------|
| | U | T | V | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 50-80 | 11 14 | 4 5 | 12,8 16 | 65 | 32 | 10 * 5 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 1.8 | 24 |
| 60-100 | 11 14 | 4 5 | 12,8 16 | 75 | 38 | 10 * 5 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 3.8 | 52 |
| 70-120 | 14 19 | 5 6 | 16 21,8 | 85 | 45 | 12 * 5 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2 1 | 6 | 75 |
| 80-135 | 19 24 | 6 8 | 21,8 27,3 | 95 | 55 | 15 * 5 | 165 | 130 | 200 | 5 | M10 | 1 2 | 8,5 | 105 |





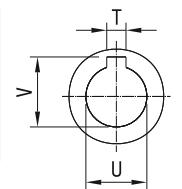
Shaft Direction



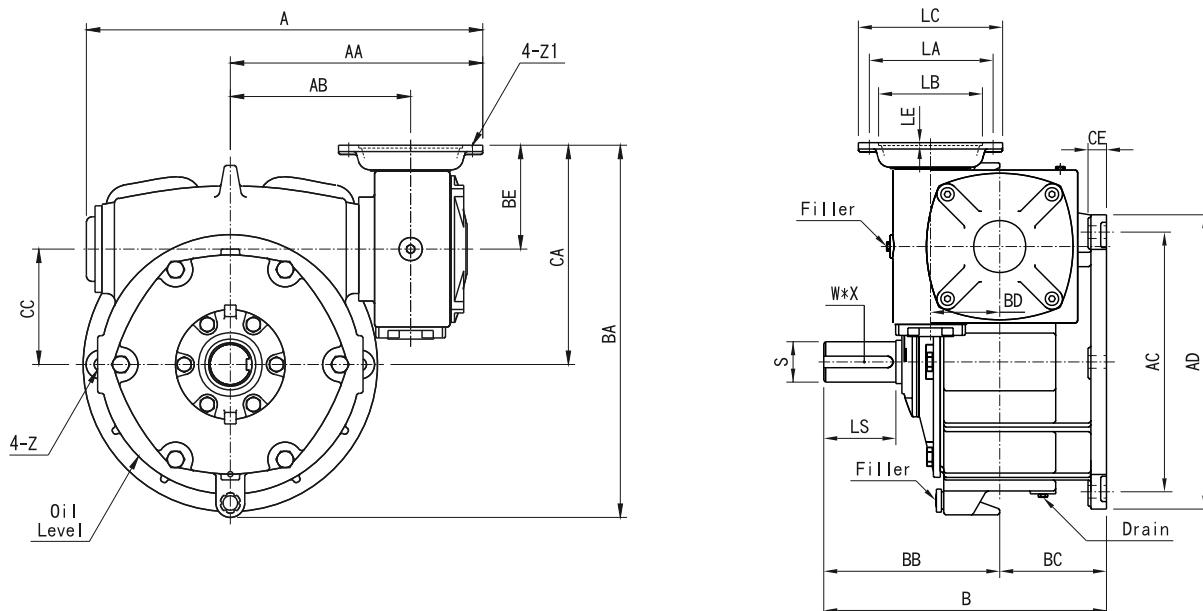
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | CF | Z |
|---------|-----------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|------------|------------|-----|-----|-----|----|-----|----|
| 100-155 | 1/100 1/3600 | 550 574 | 357 382 | 257 | 290 | 336 | 382 | 100 | 190 | 140 | 140 142 | 277 279 | 145 | 265 | 456 | 30 | 155 | 20 |
| | | 607 | 400 | 275 | 320 | 376 | 398 | 120 | 248 | 150 | 180 | 355 | 167 | 293 | 516 | 35 | 175 | 20 |

| Size | Input Bore | | | Output Shaft | | | Flange | | | | | HP | Oil (L) | Weight (kg) |
|---------|------------|---|--------------|--------------|----|--------|------------|------------|------------|----|------------|--------|---------|-------------|
| | U | T | V | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 100-155 | 24 28 | 8 | 27.3 31.3 | 100 | 60 | 15 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 12 | 135 |
| 120-175 | 28 | 8 | 31.3 | 110 | 65 | 18 * 6 | 215 | 180 | 250 | 5 | M12 | 3 5 | 15 | 192 |

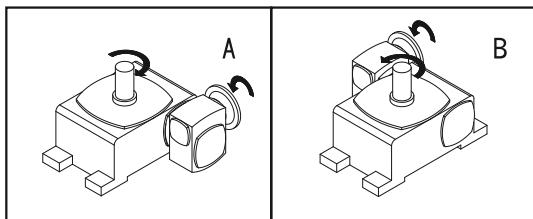


INPUT-BORE VIEW



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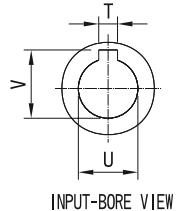
Shaft Direction

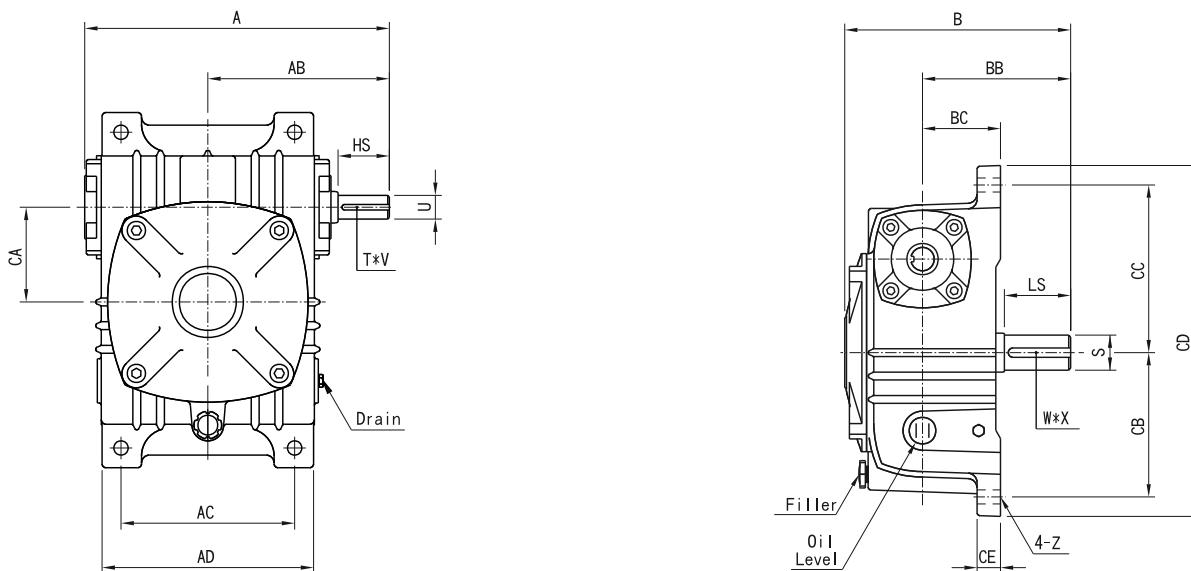


Unit:mm

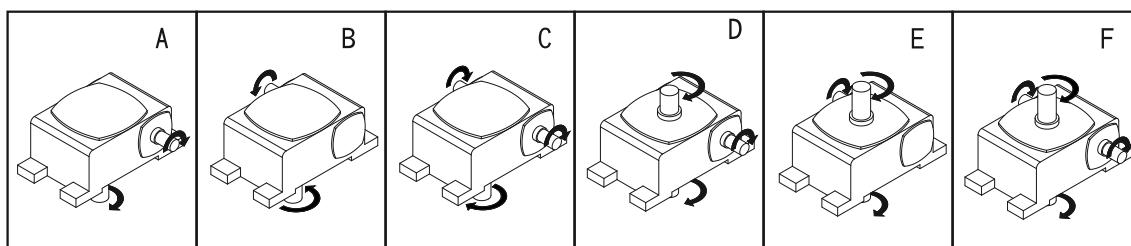
| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BD | BE | CA | CC | CE | Z |
|---------|--------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 120-200 | 1/100 | 687 | 437 | 312 | 450 | 510 | 495 | 645 | 305 | 190 | 120 | 180 | 380 | 200 | 30 | 22 |
| 135-225 | | 692 | 440 | 315 | 510 | 580 | 545 | 719 | 742 | 345 | 200 | 135 | 195 | 420 | 218 | 27 |
| 155-250 | 1/3600 | 817 | 515 | 365 | 570 | 640 | 560 | 812 | 360 | 200 | 155 | 236 | 486 | 250 | 35 | 27 |
| 175-300 | | 983 | 623 | 473 | 660 | 750 | 645 | 890 | 930 | 410 | 235 | 175 | 215 | 515 | 555 | 36 |
| | | 1008 | 648 | | | | | | | | | | 300 | 42 | | |

| Size | Input Bore | | | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|---------|------------|----|------|--------------|----|--------|--------|-----|-----|-----|--------|-------|---------|-------------|
| | U | T | V | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 120-200 | 28 | 8 | 31.3 | 125 | 70 | 20 * 7 | 215 | 180 | 250 | 5 | M12 | 3/5 | 19 | 270 |
| 135-225 | 28 | 8 | 31.3 | 140 | 80 | 20 * 7 | 215 | 180 | 250 | 5 | M12/15 | 5/7.5 | 24 | 375 |
| 155-250 | 38 | 10 | 41.3 | 145 | 90 | 24 * 8 | 265 | 230 | 300 | 5 | 15 | 7/10 | 32 | 430 |
| 175-300 | 38 | 10 | 41.3 | 170 | 95 | 24 * 8 | 265 | 230 | 300 | 5/6 | M12/19 | 10/15 | 55 | 584 |
| | 42 | 12 | 45.3 | | | | | | | | | | | |





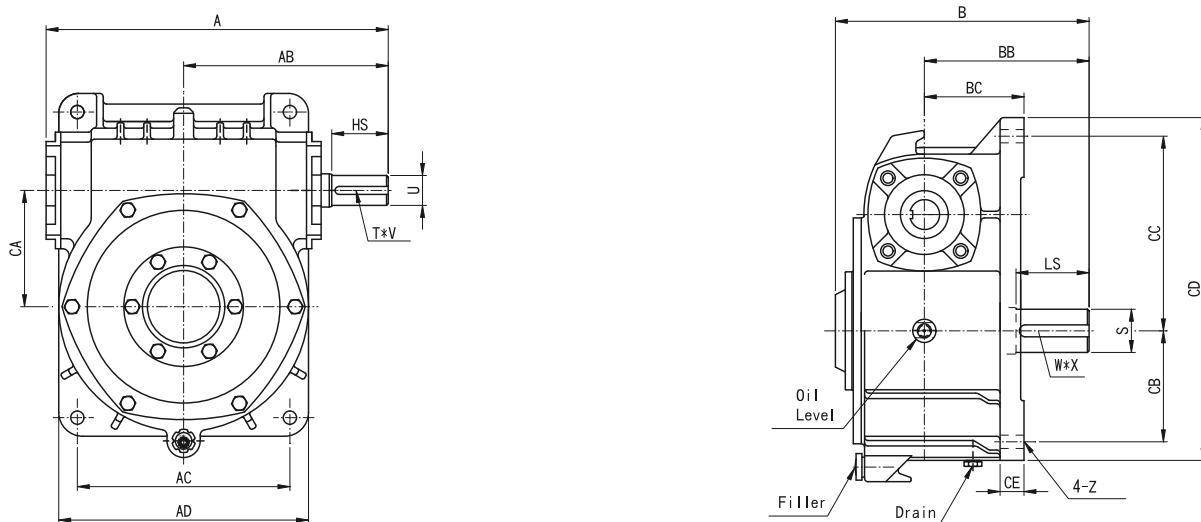
Shaft Direction



Unit:mm

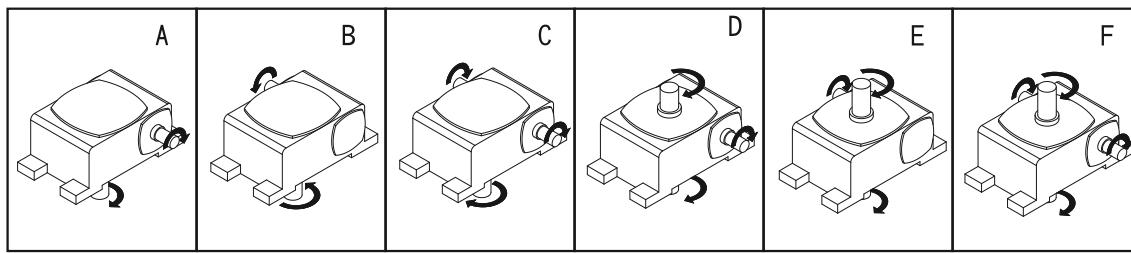
| Size | Ratio | A | AB | AC | AD | B | BB | BC | CA | CB | CC | CD | CE | Z |
|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 40 | 1/10 | 140 | 83 | 70 | 95 | 118 | 78 | 42 | 40 | 65 | 85 | 180 | 14 | 9 |
| 50 | 1/15 | 179 | 107 | 90 | 118 | 145 | 95 | 50 | 50 | 93 | 102 | 220 | 18 | 11 |
| 60 | 1/20 | 201 | 124 | 100 | 126 | 168 | 110 | 55 | 60 | 105 | 120 | 260 | 20 | 11 |
| 70 | 1/30 | 235 | 140 | 120 | 156 | 193 | 130 | 65 | 70 | 120 | 135 | 295 | 20 | 15 |
| 80 | 1/40 | 265 | 160 | 140 | 176 | 212 | 140 | 73 | 80 | 130 | 150 | 320 | 20 | 15 |
| 100 | 1/50 | 328 | 192 | 190 | 226 | 250 | 170 | 90 | 100 | 155 | 180 | 375 | 30 | 15 |
| 120 | 1/60 | 389 | 230 | 220 | 268 | 284 | 190 | 100 | 120 | 185 | 215 | 450 | 30 | 18 |
| 135 | | 435 | 260 | 260 | 295 | 322 | 210 | 110 | 135 | 210 | 235 | 495 | 30 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|--------------|----|--------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 40 | 24.5 | 12 | 4 * 2.5 | 35 | 16 | 5 * 3 | 0.2 | 4.1 |
| 50 | 30 | 12 | 4 * 2.5 | 40 | 17 | 5 * 3 | 0.4 | 6.5 |
| 60 | 40 | 15 | 5 * 3 | 50 | 22 | 7 * 4 | 0.6 | 9 |
| 70 | 40 | 18 | 5 * 3 | 60 | 28 | 7 * 4 | 1.1 | 13 |
| 80 | 50 | 22 | 7 * 4 | 65 | 32 | 10 * 5 | 1.5 | 18 |
| 100 | 50 | 25 | 7 * 4 | 75 | 38 | 10 * 5 | 3 | 42 |
| 120 | 65 | 30 | 7 * 4 | 85 | 45 | 12 * 5 | 5 | 66 |
| 135 | 75 | 35 | 10 * 5 | 95 | 55 | 15 * 5 | 7.5 | 90 |



38

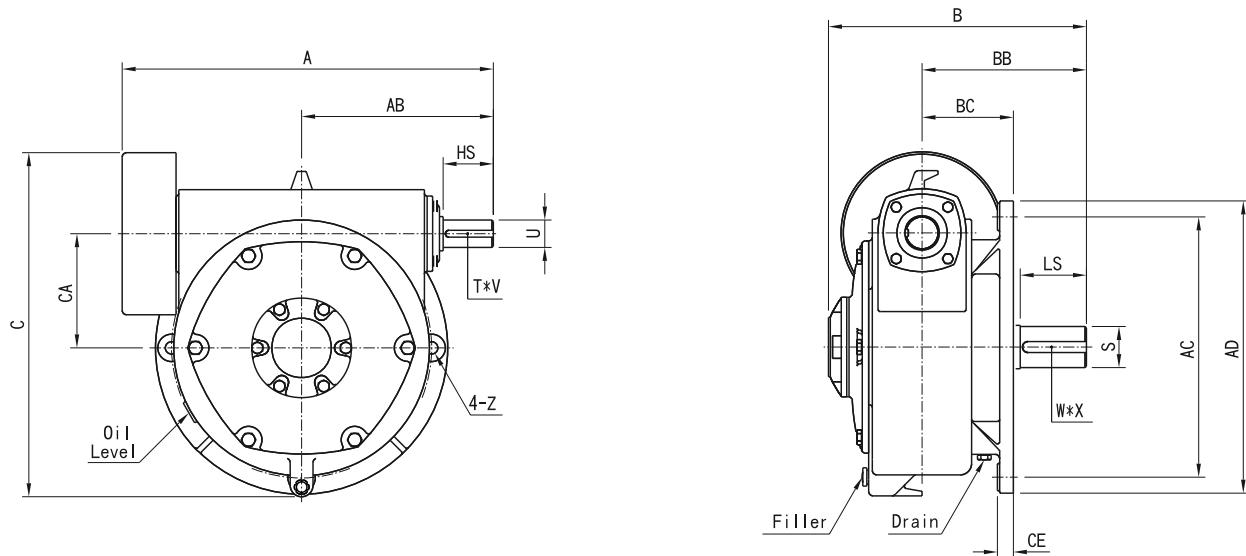
Shaft Direction



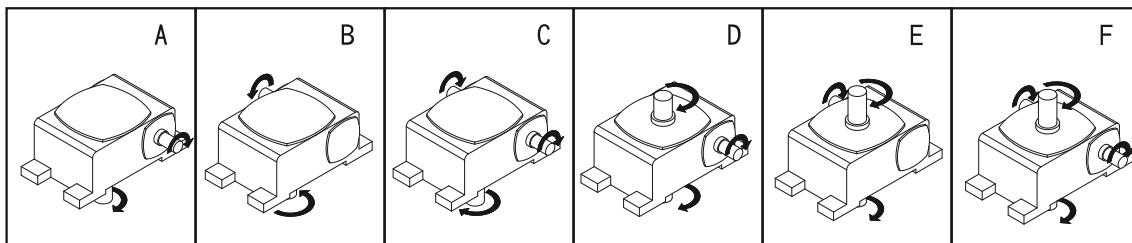
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | CA | CB | CC | CD | CE | Z |
|------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 155 | 1/10 1/40 1/15 1/50 1/20 1/60 | 479 | 286 | 290 | 336 | 377 | 242 | 140 | 155 | 145 | 265 | 456 | 30 | 20 |
| 175 | 1/30 | 515 | 308 | 320 | 376 | 382 | 248 | 150 | 175 | 167 | 293 | 516 | 35 | 20 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|--------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 155 | 85 | 40 | 10 * 5 | 100 | 60 | 15 * 5 | 9.2 | 115 |
| 175 | 85 | 45 | 12 * 5 | 110 | 65 | 18 * 6 | 10.5 | 155 |



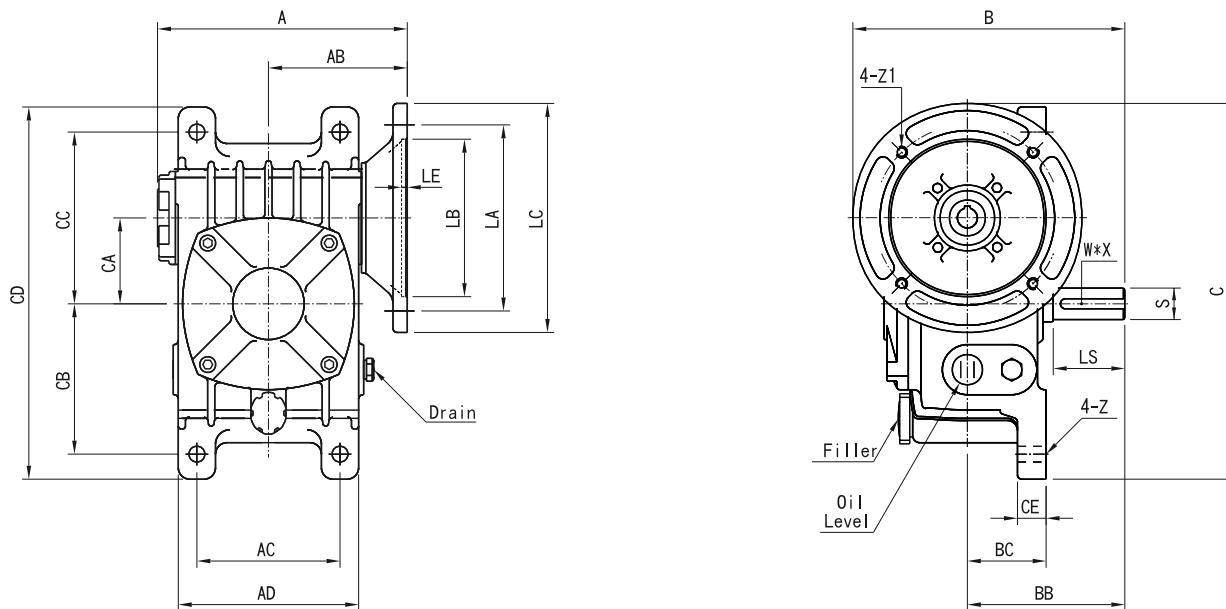
Shaft Direction



Unit:mm

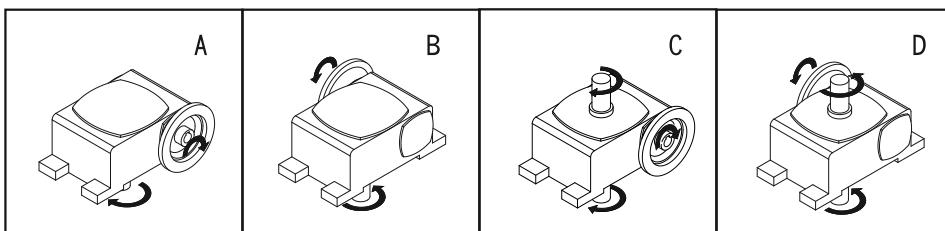
| Size | Ratio | A | AB | AC | AD | B | BB | BC | C | CA | CE | Z |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 200 | 1/10 1/40 | 698 | 357 | 450 | 510 | 483 | 305 | 190 | 643 | 200 | 30 | 22 |
| 225 | 1/15 | 709 | 361 | 510 | 580 | 530 | 345 | 200 | 700 | 225 | 35 | 27 |
| 250 | 1/50 | 813 | 420 | 570 | 640 | 565 | 360 | 200 | 754 | 250 | 35 | 27 |
| 300 | 1/20 1/60 | 943 | 495 | 660 | 750 | 623 | 410 | 235 | 853 | 300 | 42 | 36 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|--------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 200 | 95 | 50 | 12 * 5 | 125 | 70 | 20 * 7 | 12 | 220 |
| 225 | 95 | 55 | 15 * 5 | 140 | 80 | 20 * 7 | 17 | 315 |
| 250 | 110 | 60 | 15 * 5 | 145 | 90 | 24 * 8 | 23 | 365 |
| 300 | 125 | 70 | 18 * 6 | 170 | 95 | 24 * 8 | 45 | 520 |



40

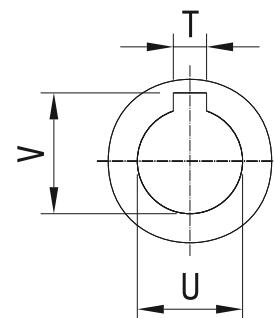
Shaft Direction



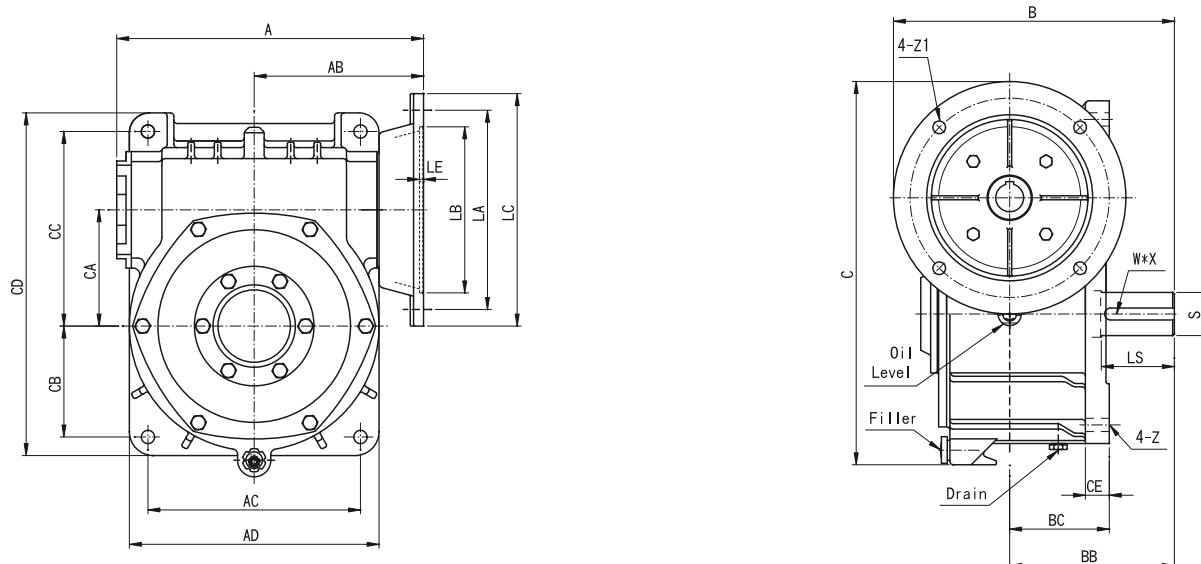
Unit:mm

| Size | Ratio | A | AB | AC | AD | B | BB | BC | C | CA | CB | CC | CD | CE | Z | Input Bore | | |
|------|-------|------------|------------|-----|-----|------------|-----|-----|------------|-----|-----|-----|-----|----|----|------------|---------|----------------------|
| | | | | | | | | | | | | | | | | U | T | V |
| 50 | 1/10 | 174 | 97 | 90 | 116 | 175 | 95 | 50 | 236 | 50 | 93 | 102 | 220 | 18 | 11 | 11 14 | 4 5 | 12. 16 |
| 60 | | 177 | 97 | 100 | 126 | 190 | 110 | 55 | 263 | 60 | 105 | 120 | 260 | 20 | 11 | 11 14 | 4 5 | 12. 16 |
| 70 | 1/20 | 213 223 | 118 120 | 120 | 156 | 210 230 | 130 | 65 | 290 310 | 70 | 120 | 135 | 295 | 20 | 15 | 14 19 | 5 6 | 16 21. 8 |
| 80 | | 235 | 130 | 140 | 176 | 240 | 140 | 73 | 330 | 80 | 130 | 150 | 320 | 20 | 15 | 19 24 | 6 8 | 21. 8 27. 3 |
| 100 | 1/40 | 273 278 | 140 142 | 190 | 226 | 270 295 | 170 | 90 | 375 400 | 100 | 155 | 180 | 375 | 30 | 15 | 24 28 | 8 8 | 27. 3 31. 3 |
| 120 | | 339 | 180 | 220 | 266 | 315 | 190 | 100 | 455 | 120 | 185 | 215 | 450 | 30 | 18 | 28 | 8 | 31. 3 |
| 135 | 1/60 | 370 378 | 195 218 | 260 | 306 | 335 360 | 210 | 110 | 495 520 | 135 | 210 | 235 | 495 | 30 | 18 | 28 38 | 8 10 | 31. 3 41. 3 |

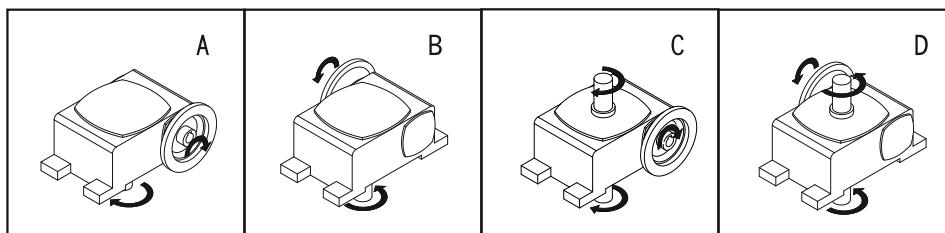
| Size | Output Shaft | | | Flange | | | | HP | Oil (l) | Weight (kg) | |
|------|--------------|----|--------|------------|------------|------------|--------|------------|------------|----------------|-----|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 50 | 40 | 17 | 5 * 3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.4 | 6.5 |
| 60 | 50 | 22 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.6 | 9 |
| 70 | 60 | 28 | 7 * 4 | 130 165 | 110 130 | 160 210 | 4 5 | M8 M10 | 1/2 1 | 1.1 | 13 |
| 80 | 65 | 32 | 10 * 5 | 165 | 130 | 200 | 5 | M10 | 1 2 | 1.5 | 18 |
| 100 | 75 | 38 | 10 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 3 | 42 |
| 120 | 85 | 45 | 12 * 5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 5 | 66 |
| 135 | 95 | 55 | 15 * 5 | 215 265 | 180 230 | 250 300 | 5 | M12 15 | 5 7.5 | 7.5 | 90 |



INPUT-BORE VIEW



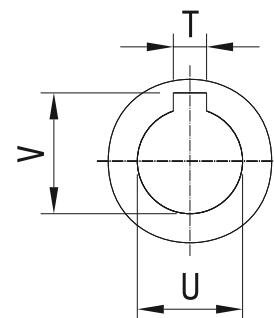
Shaft Direction



Unit:mm

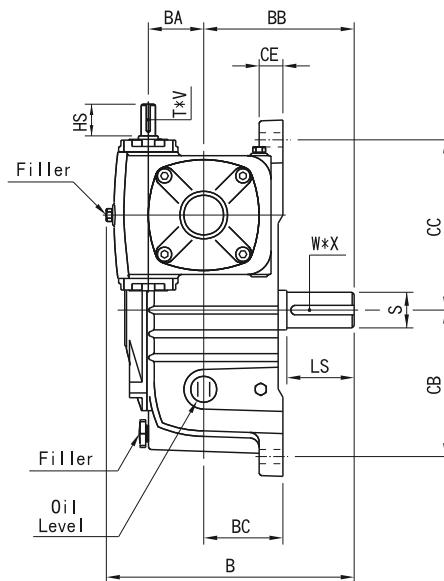
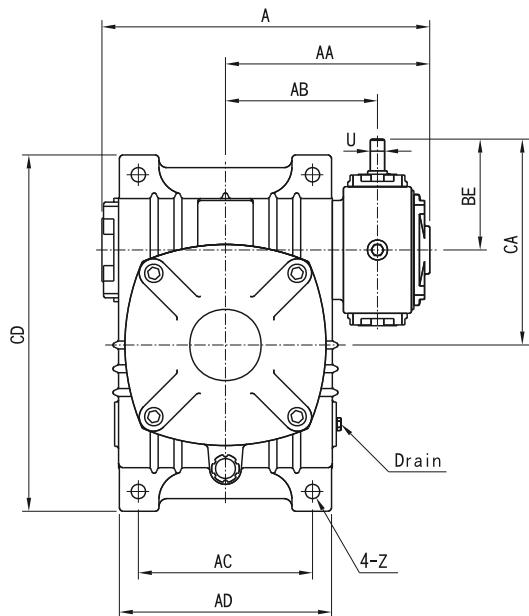
| Size | Ratio | A | AB | AC | AD | B | BB | BC | C | CA | CB | CC | CD | CE | Z | Input Bore | | |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------------|----|------|
| | | | | | | | | | | | | | | | | U | T | V |
| 155 | 1/10 1/40 | 430 | 236 | 290 | 336 | 392 | 242 | 140 | 521 | 155 | 145 | 265 | 456 | 30 | 20 | 38 | 10 | 41.3 |
| | 1/15 1/50 | | | | | | | | | | | | | | | | | |
| 175 | 1/20 1/60 | 420 | 212 | 320 | 376 | 398 | 248 | 150 | 552 | 175 | 167 | 293 | 516 | 35 | 20 | 38 | 10 | 41.3 |
| | 1/30 | 465 | 255 | | | 423 | | | 577 | | | | | | | 42 | 12 | 45.3 |

| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|--------|------------|------------|------------|--------|-----------|-----------|---------|-------------|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 155 | 100 | 60 | 15 * 5 | 265 | 230 | 300 | 4.5 | 15 | 7.5 10 | 9.2 | 115 |
| 175 | 110 | 65 | 18 * 6 | 265 300 | 230 250 | 300 350 | 5 6 | M12 19 | 10 15 | 10.5 | 155 |

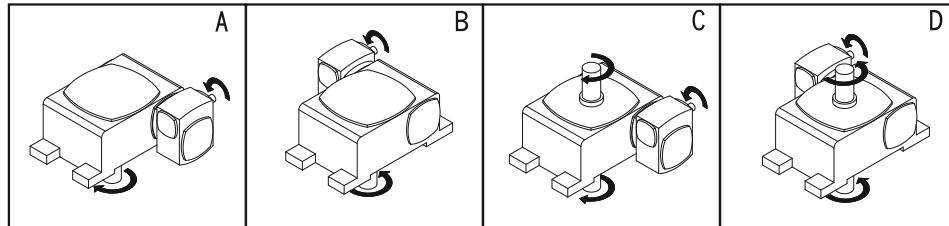


INPUT-BORE VIEW

Size : 50/80~80/135



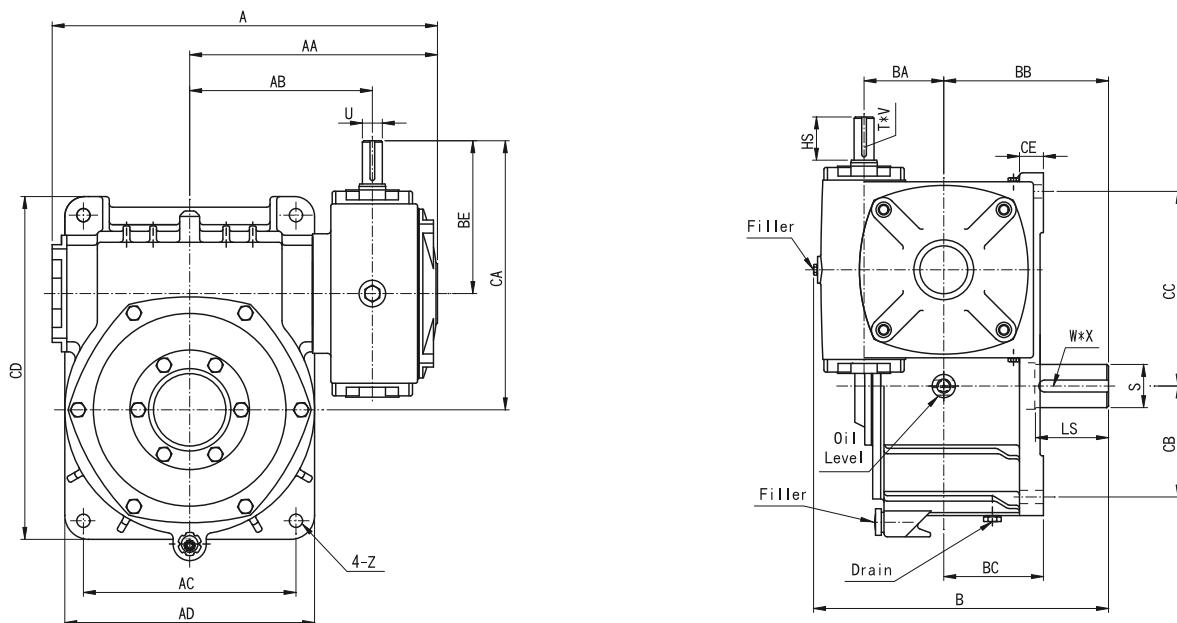
Shaft Direction



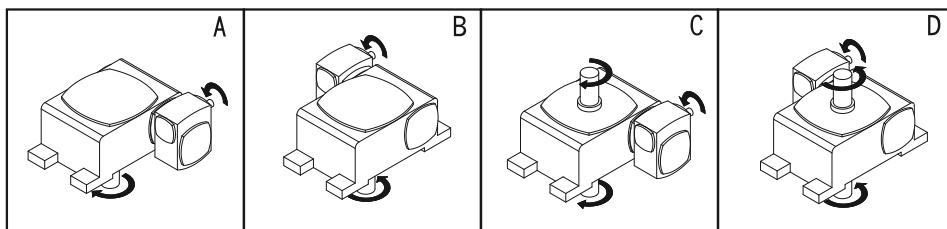
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | Z |
|--------|--------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 50-80 | 1/100 | 289 | 184 | 132 | 140 | 176 | 229 | 50 | 140 | 73 | 107 | 187 | 130 | 150 | 320 | 20 | 15 |
| 60-100 | | 352 | 219 | 161 | 190 | 226 | 285 | 60 | 170 | 90 | 124 | 224 | 155 | 180 | 375 | 30 | 15 |
| 70-120 | 1/3600 | 417 | 258 | 192 | 220 | 266 | 313 | 70 | 190 | 100 | 140 | 260 | 185 | 215 | 450 | 30 | 18 |
| 80-135 | | 462 | 287 | 211 | 260 | 295 | 357 | 80 | 210 | 110 | 160 | 295 | 210 | 235 | 495 | 30 | 18 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|--------|-------------|----|---------|--------------|----|--------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 50-80 | 30 | 12 | 4 * 2.5 | 65 | 32 | 10 * 5 | 1.8 | 24 |
| 60-100 | 40 | 15 | 5 * 3 | 75 | 38 | 10 * 5 | 3.8 | 52 |
| 70-120 | 40 | 18 | 5 * 3 | 85 | 45 | 12 * 5 | 6 | 75 |
| 80-135 | 50 | 22 | 7 * 4 | 95 | 55 | 15 * 5 | 8.5 | 105 |



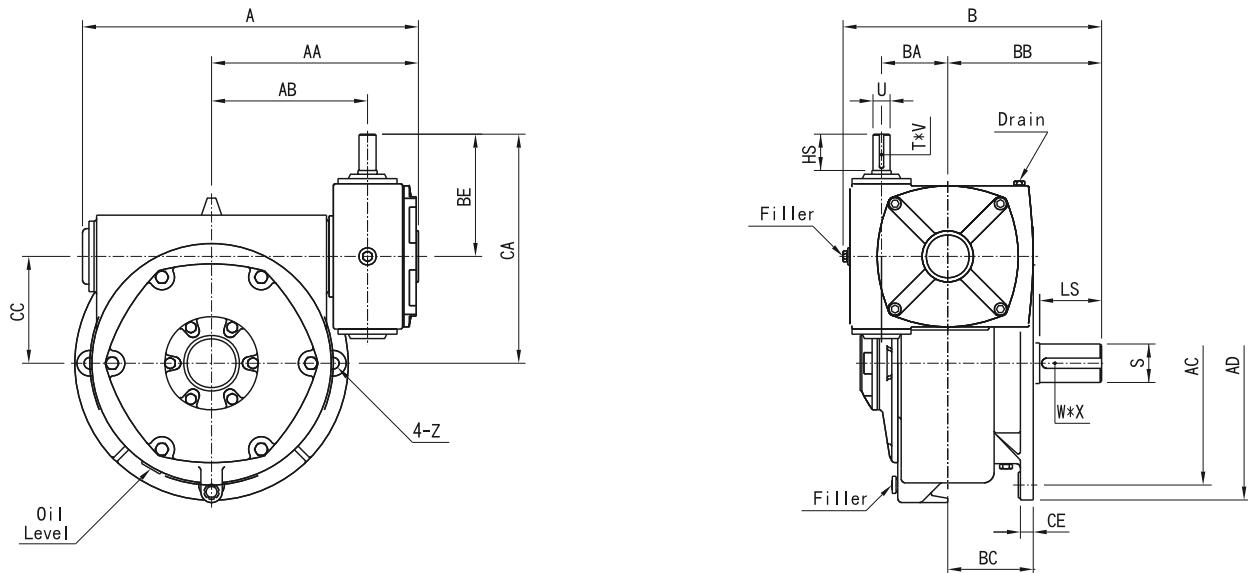
Shaft Direction



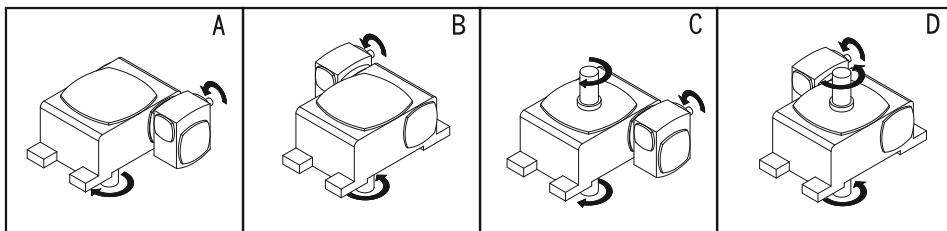
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | Z |
|---------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 100-155 | 1/100 1/3600 | 540 | 349 | 257 | 290 | 336 | 420 | 100 | 242 | 140 | 190 | 347 | 145 | 265 | 456 | 30 | 20 |
| | | 585 | 376 | 275 | 320 | 376 | 444 | 120 | 248 | 150 | 230 | 405 | 167 | 293 | 516 | 35 | 20 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|---------|-------------|----|-------|--------------|----|--------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 100-155 | 50 | 25 | 7 * 4 | 100 | 60 | 15 * 5 | 12 | 135 |
| 120-175 | 65 | 30 | 7 * 4 | 110 | 65 | 18 * 6 | 15 | 192 |



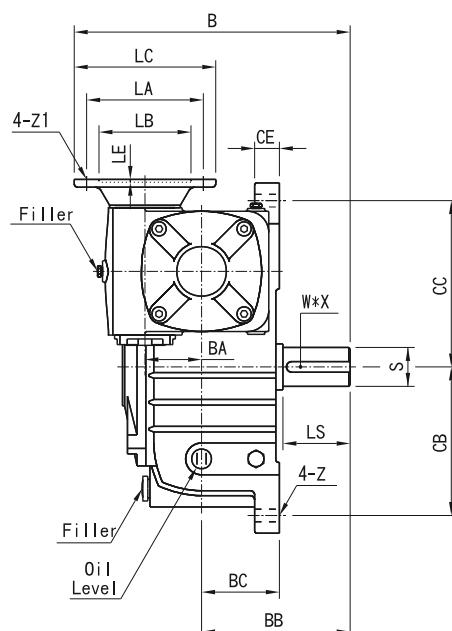
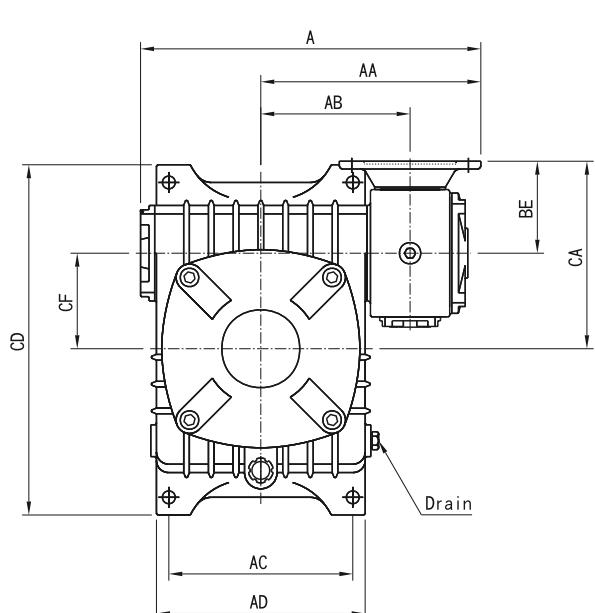
Shaft Direction



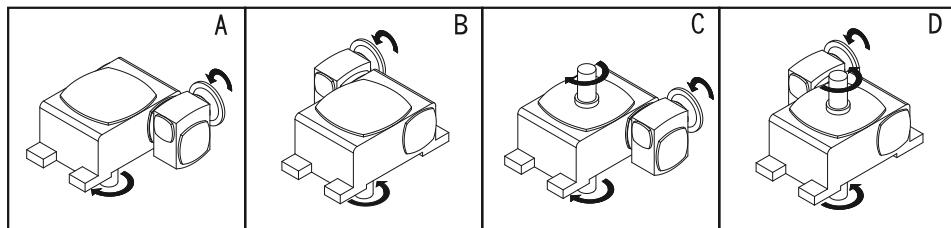
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CC | CE | Z |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 120-200 | 1/100 | 653 | 414 | 312 | 450 | 510 | 501 | 120 | 305 | 190 | 230 | 430 | 200 | 30 | 22 |
| 135-225 | | 672 | 425 | 315 | 510 | 580 | 586 | 135 | 345 | 200 | 260 | 485 | 225 | 35 | 27 |
| 155-250 | 1/3600 | 786 | 483 | 365 | 570 | 640 | 605 | 155 | 360 | 200 | 286 | 536 | 250 | 35 | 27 |
| 175-300 | | 962 | 601 | 473 | 660 | 750 | 695 | 175 | 410 | 235 | 308 | 608 | 300 | 42 | 36 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|---------|-------------|----|--------|--------------|----|--------|------------|----------------|
| | HS | U | T * V | LS | S | W * X | | |
| 120-200 | 65 | 30 | 7 * 4 | 125 | 70 | 20 * 7 | 19 | 270 |
| 135-225 | 75 | 35 | 10 * 5 | 140 | 80 | 20 * 7 | 24 | 375 |
| 155-250 | 85 | 40 | 10 * 5 | 145 | 90 | 24 * 8 | 32 | 430 |
| 175-300 | 85 | 45 | 12 * 5 | 170 | 95 | 24 * 8 | 55 | 584 |



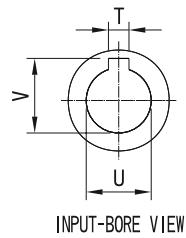
Shaft Direction

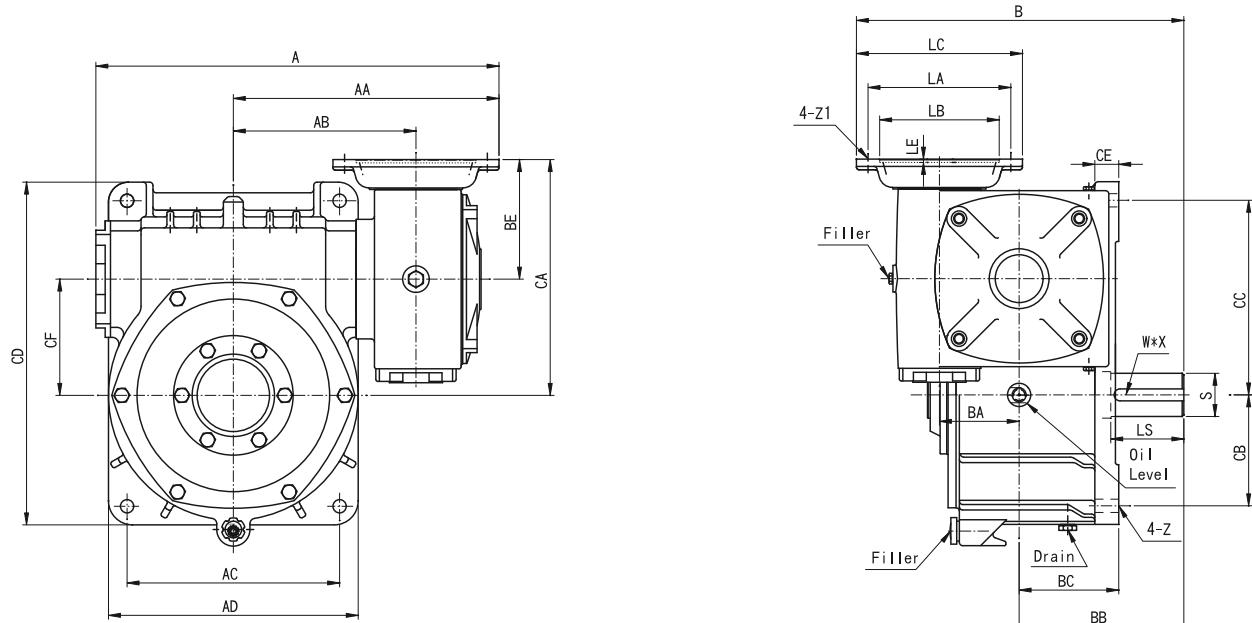


Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | CF | Z | |
|--------|--------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 50-80 | | 317 | 212 | 132 | 140 | 176 | 270 | 50 | 140 | 73 | 96 | 176 | 130 | 150 | 320 | 20 | 80 | 15 | |
| 60-100 | 1/100 | 378 | 241 | 161 | 190 | 226 | 310 | 60 | 170 | 90 | 97 | 197 | 155 | 180 | 375 | 30 | 100 | 15 | |
| 70-120 | 1/3600 | 428 | 272 | 192 | 220 | 266 | 340 | 70 | 190 | 100 | 118 | 238 | 240 | 185 | 215 | 450 | 30 | 120 | 18 |
| 80-135 | | 448 | 292 | 220 | 260 | 295 | 360 | 80 | 210 | 110 | 130 | 265 | 210 | 235 | 495 | 30 | 135 | 18 | |
| 480 | | 311 | 211 | 140 | 260 | 295 | 390 | 80 | 210 | 110 | 130 | 265 | 210 | 235 | 495 | 30 | 135 | 18 | |

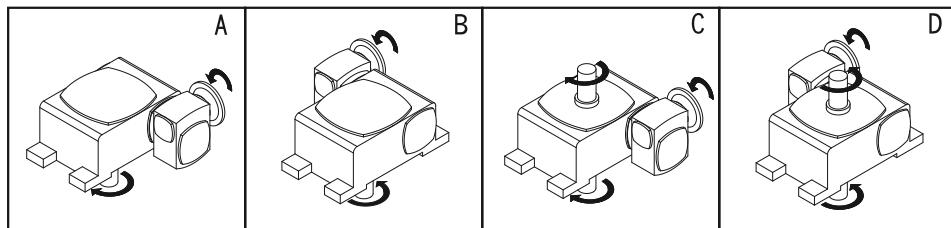
| Size | Input Bore | | | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|--------|------------|--------|--------------|--------------|----|--------|------------|------------|------------|----|-----------|------------|---------|-------------|
| | U | T | V | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 50-80 | 11 14 | 4 5 | 12,8 16 | 65 | 32 | 10 * 5 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 1.8 | 24 |
| 60-100 | 11 14 | 4 5 | 12,8 16 | 75 | 38 | 10 * 5 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 3.8 | 52 |
| 70-120 | 14 19 | 5 6 | 16 21,8 | 85 | 45 | 12 * 5 | 130 165 | 110 130 | 160 200 | 5 | M8 M10 | 1/2 1 | 6 | 75 |
| 80-135 | 19 24 | 6 8 | 21,8 27,3 | 95 | 55 | 15 * 5 | 165 | 130 | 200 | 5 | M10 | 1 2 | 8,5 | 105 |





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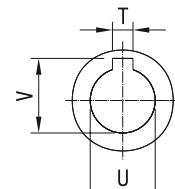
Shaft Direction



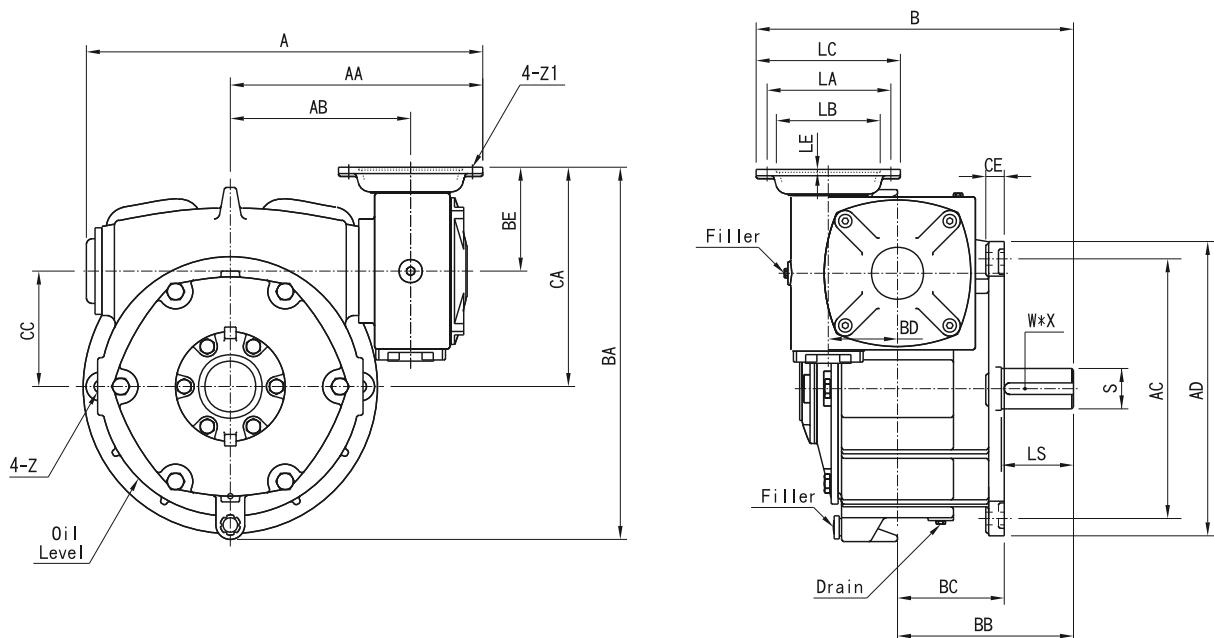
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BE | CA | CB | CC | CD | CE | CF | Z |
|---------|-----------------|------------|------------|-----|-----|-----|------------|-----|-----|-----|------------|------------|-----|-----|-----|----|-----|----|
| 100-155 | 1/100 1/3600 | 550 574 | 357 382 | 257 | 290 | 336 | 442 467 | 100 | 242 | 140 | 140 142 | 277 279 | 145 | 265 | 456 | 30 | 155 | 20 |
| 120-175 | | 607 | 400 | 275 | 320 | 376 | 493 | 120 | 248 | 150 | 180 | 355 | 167 | 293 | 516 | 35 | 175 | 20 |

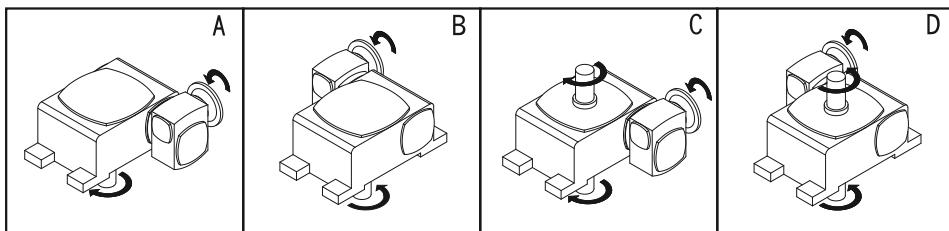
| Size | Input Bore | | | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|---------|------------|---|--------------|--------------|----|--------|------------|------------|------------|----|------------|--------|---------|-------------|
| | U | T | V | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 100-155 | 24 28 | 8 | 27.3 31.3 | 100 | 60 | 15 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 12 | 135 |
| 120-175 | 28 | 8 | 31.3 | 110 | 65 | 18 * 6 | 215 | 180 | 250 | 5 | M12 | 3 5 | 15 | 192 |



INPUT-BORE VIEW



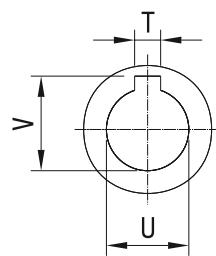
Shaft Direction



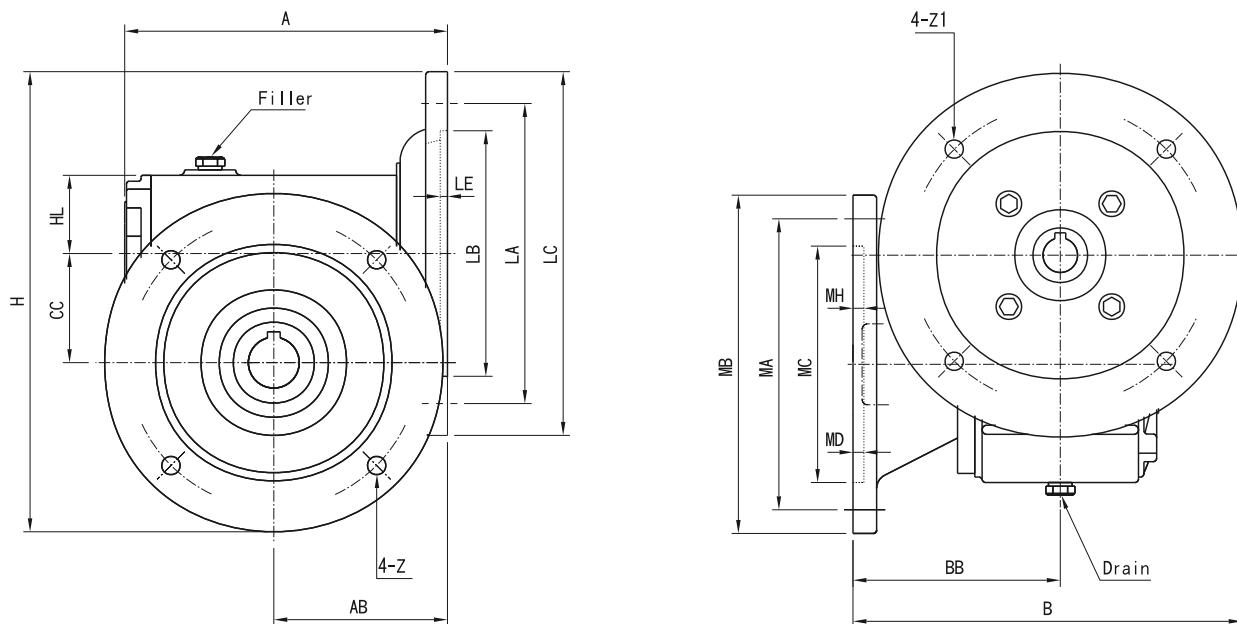
Unit:mm

| Size | Ratio | A | AA | AB | AC | AD | B | BA | BB | BC | BD | BE | CA | CC | CE | Z |
|---------|--------|-------------|------------|-----|-----|-----|------------|------------|-----|-----|-----|------------|------------|-----|----|----|
| 120-200 | 1/100 | 687 | 437 | 312 | 450 | 510 | 550 | 645 | 305 | 190 | 120 | 180 | 380 | 200 | 30 | 22 |
| 135-225 | | 692 717 | 440 465 | 315 | 510 | 580 | 605 630 | 719 742 | 345 | 200 | 135 | 195 218 | 420 443 | 225 | 35 | 27 |
| 155-250 | 1/3600 | 817 | 515 | 365 | 570 | 640 | 665 | 812 | 360 | 200 | 155 | 236 | 486 | 250 | 35 | 27 |
| 175-300 | | 983 1008 | 623 648 | 473 | 660 | 750 | 735 760 | 890 930 | 410 | 235 | 175 | 215 255 | 515 555 | 300 | 42 | 36 |

| Size | Input Bore | | | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|---------|------------|----------|--------------|--------------|----|--------|------------|------------|------------|--------|-----------|-----------|---------|-------------|
| | U | T | V | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 120-200 | 28 | 8 | 31.3 | 125 | 70 | 20 * 7 | 215 | 180 | 250 | 5 | M12 | 3 5 | 19 | 270 |
| 135-225 | 28 38 | 8 10 | 31.3 41.3 | 140 | 80 | 20 * 7 | 215 265 | 180 230 | 250 300 | 5 | M12 15 | 5 7.5 | 24 | 375 |
| 155-250 | 38 | 10 | 41.3 | 145 | 90 | 24 * 8 | 265 | 230 | 300 | 5 | 15 | 7.5 10 | 32 | 430 |
| 175-300 | 38 42 | 10 12 | 41.3 45.3 | 170 | 95 | 24 * 8 | 265 300 | 230 250 | 300 350 | 5 6 | M12 19 | 10 15 | 55 | 584 |

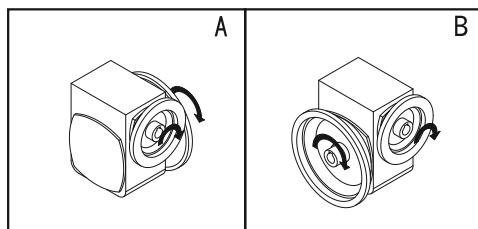


INPUT-BORE VIEW



48

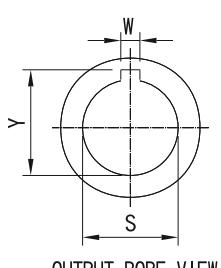
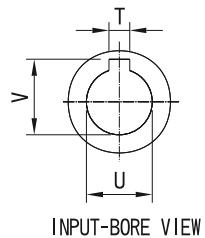
Shaft Direction



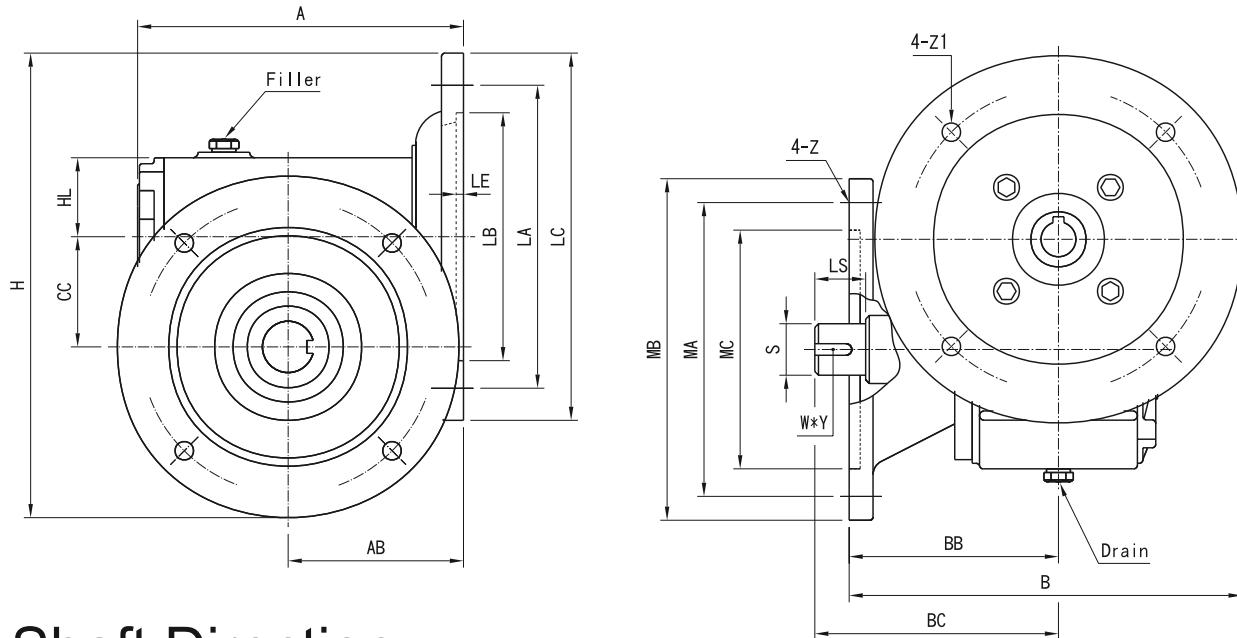
Unit:mm

| Size | Ratio | A | AB | B | BB | CC | H | HL | Input Bore | | | |
|------|-----------|-----|------|--------------|--------------|----|------------|----|------------|------------|-----------|------|
| | | | | | | | | | U | T | V | |
| 60 | 1/10 1/40 | 170 | 88 | 191 194 | 110,5 114 | 60 | 205 233 | 43 | 99 160 | 120 186 | 75 130 | 6 |
| | 1/15 1/50 | 178 | 95.5 | 210,5 214 | 110,5 114 | 60 | 225 253 | 43 | 99 160 | 120 186 | 75 130 | 6 |
| | 1/20 | | | | | | | | | | | 1.5 |
| 70 | 1/30 1/60 | 201 | 105 | 228 | 128 | 70 | 263 | 53 | 165 | 186 | 140 | 6 |
| | | | | | | | | | 4 | 10 | 24 | 8 |
| | | | | | | | | | | | | 27.3 |

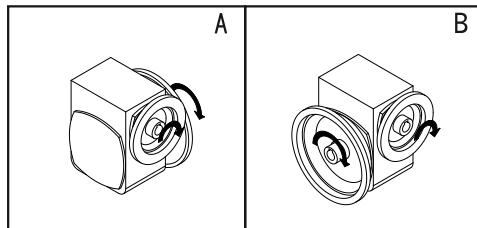
| Size | Output Bore | | | | Flange | | | | HP | Oil (l) | Weight (kg) |
|------|-------------|---|----|-----|--------|-----|----|-----|-----|---------|-------------|
| | S | W | Y | LA | LB | LC | LE | Z1 | | | |
| 60 | 28 | 7 | 31 | 130 | 110 | 160 | 4 | M8 | 1/2 | 0.26 | 9 |
| | 28 | 7 | 31 | 165 | 130 | 186 | 4 | M10 | 1 | 0.4 | 12 |
| 70 | 28 | 7 | 31 | 165 | 130 | 200 | 5 | M10 | 2 | 0.7 | 18 |



- *60出力中空深度55mm
- *70出力中空深度43mm
- *size 60: 55mm for the depth of hollow output shaft
- *size 70: 43mm for the depth of hollow output shaft



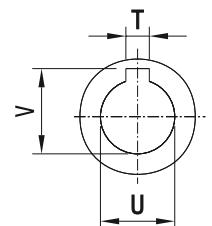
Shaft Direction



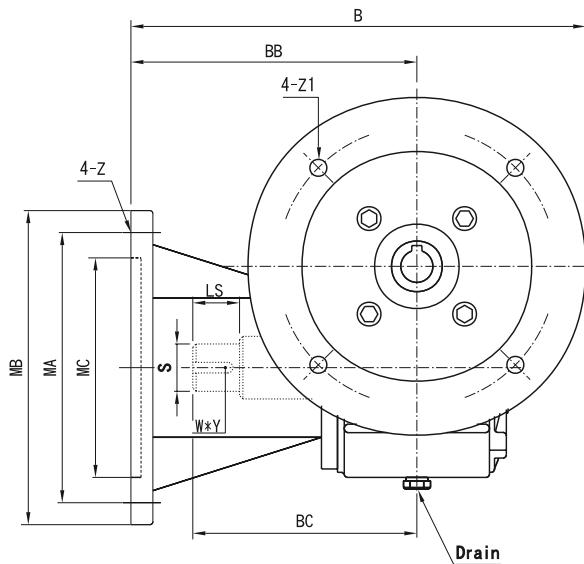
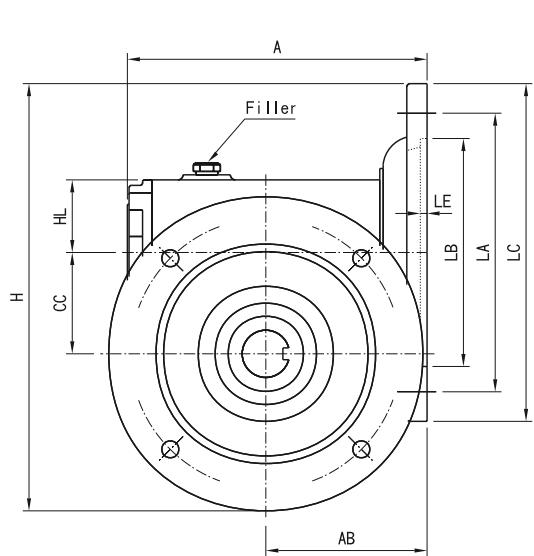
Unit:mm

| Size | Ratio | A | AB | B | BB | BC | CC | H | HL | MA | MB | MC | Z | Input Bore | | |
|------|-----------|-----|------|-----|-----|-----|----|-----|----|-----|-----|-----|----|------------|---|------|
| | | | | | | | | | | | | | | U | T | V |
| 60 | 1/10 1/40 | 170 | 88 | 207 | 127 | 162 | 60 | 220 | 43 | 130 | 160 | 110 | 12 | 14 | 5 | 16 |
| | 1/15 1/50 | 178 | 95.5 | 227 | 127 | 162 | 60 | 240 | 43 | 130 | 160 | 110 | 12 | 19 | 6 | 21.8 |
| | 1/20 1/60 | 213 | 105 | 250 | 150 | 185 | 70 | 256 | 53 | 130 | 160 | 110 | 12 | 24 | 8 | 27.3 |
| 70 | 1/30 1/60 | | | | | | | | | | | | | | | |

| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|-------|--------|-----|-----|----|-----|-----|---------|-------------|
| | LS | S | W*Y | LA | LB | LC | LE | Z1 | | | |
| 60 | 35 | 28 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/2 | 0.4 | 12 |
| | 35 | 28 | 7 * 4 | 165 | 130 | 186 | 4 | M10 | 1 | 0.4 | 12 |
| 70 | 35 | 28 | 7 * 4 | 165 | 130 | 200 | 5 | M10 | 2 | 0.7 | 18 |

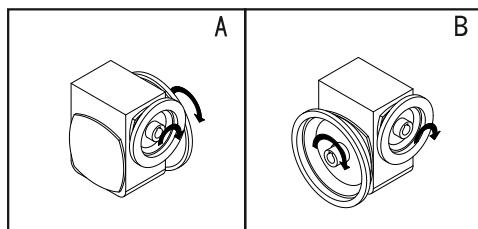


INPUT-BORE VIEW



50

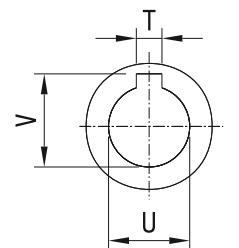
Shaft Direction



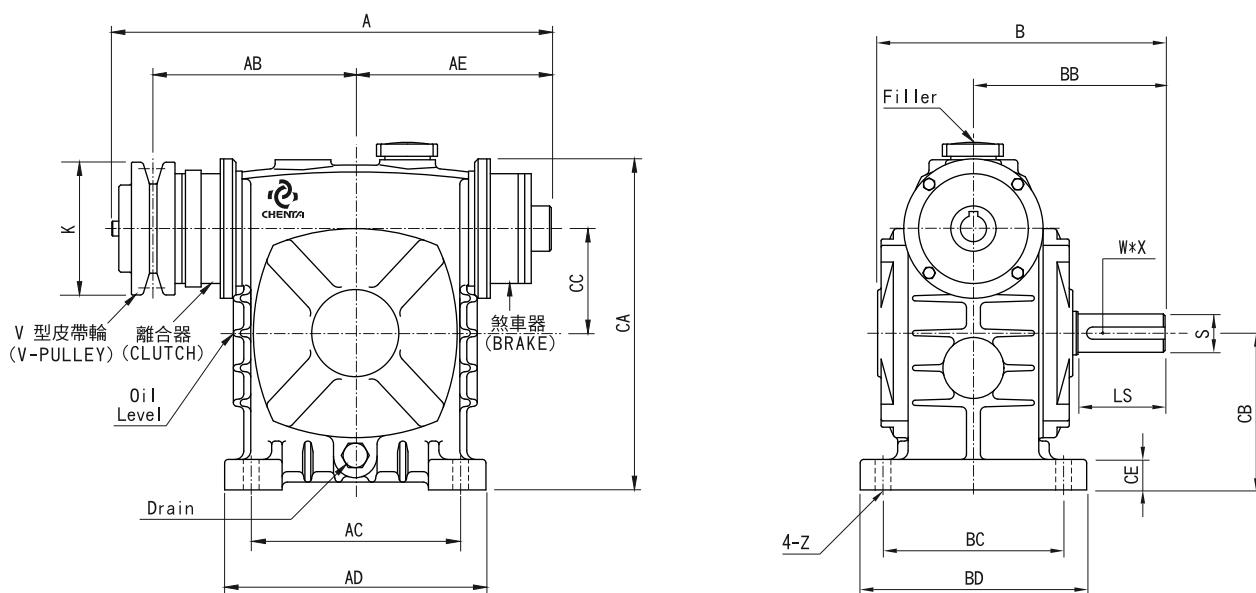
Unit:mm

| Size | Ratio | A | AB | B | BB | BC | CC | H | HL | MA | MB | MC | Z | Input Bore | | |
|------|-----------|------------|------------|------------|-----|-----|----|----------------|----|-----|-----|-----|----|------------|--------|------------|
| | | | | | | | | | | | | | | U | T | V |
| 60 | 1/10 1/40 | 170 178 | 88 95.5 | 253 273 | 173 | 121 | 60 | 232.5 252.5 | 43 | 160 | 185 | 130 | 15 | 14 19 | 5 6 | 16 21.8 |
| | 1/15 1/50 | 170 178 | 88 95.5 | 296 316 | 216 | 162 | 60 | 232.5 252.5 | 43 | 160 | 185 | 125 | 14 | 14 19 | 5 6 | 16 21.8 |
| | 1/20 | 213 | 105 | 339 | 239 | 185 | 70 | 262.5 | 53 | 160 | 185 | 125 | 14 | 24 | 8 | 27.3 |
| 70 | 1/30 1/60 | 213 | 105 | 339 | 239 | 185 | 70 | 262.5 | 53 | 160 | 185 | 125 | 14 | | | |

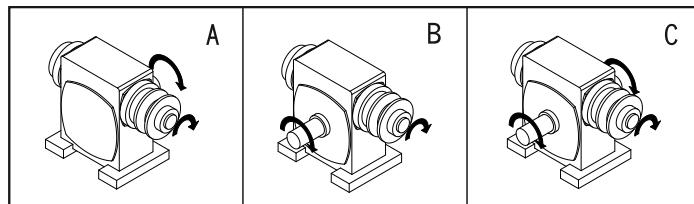
| Size | Output Shaft | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|--------------|----|-------|------------|------------|-----|----|-----|-----|---------|-------------|
| | LS | S | W*Y | LA | LB | LC | LE | Z1 | | | |
| 60 | 45 | 28 | 7 * 4 | 130 165 | 110 130 | 160 | 4 | M8 | 1/2 | 0.4 | 12 |
| | 35 | 28 | 7 * 4 | 130 165 | 110 130 | 186 | 4 | M10 | 1 | 0.4 | 12 |
| 70 | 35 | 28 | 7 * 4 | 165 | 130 | 200 | 5 | M10 | 2 | 0.7 | 18 |



INPUT-BORE VIEW



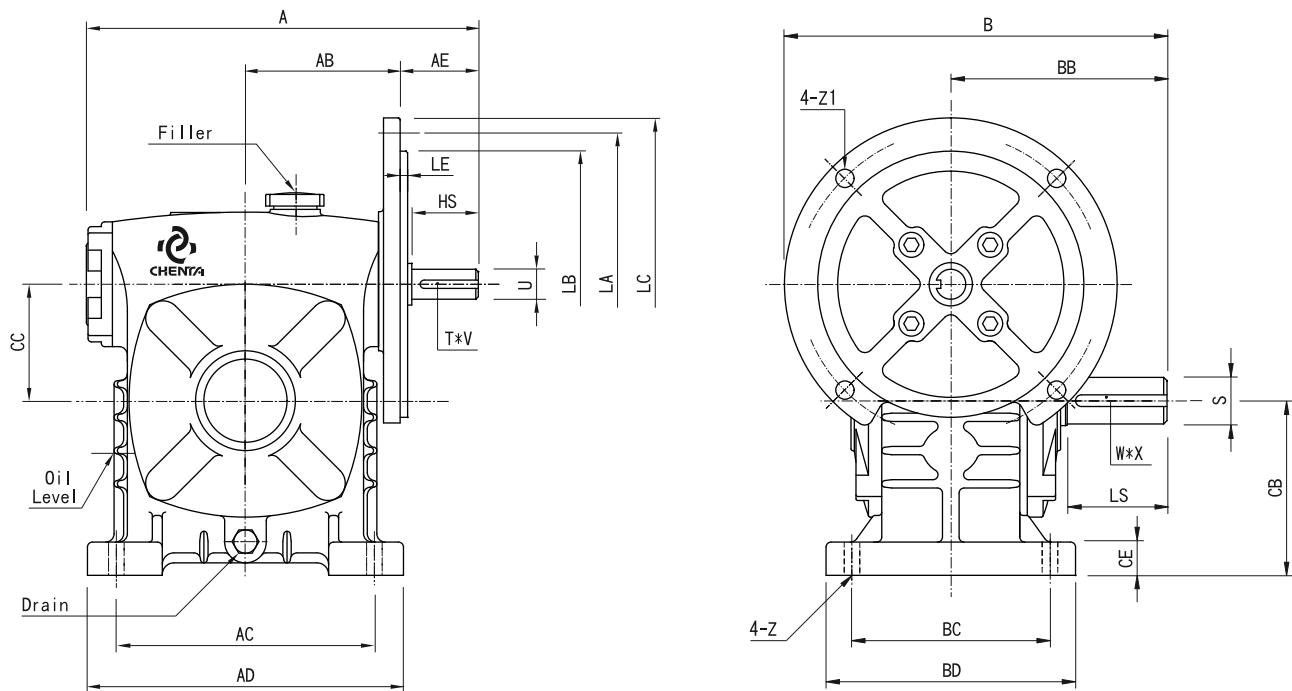
Shaft Direction



Unit:mm

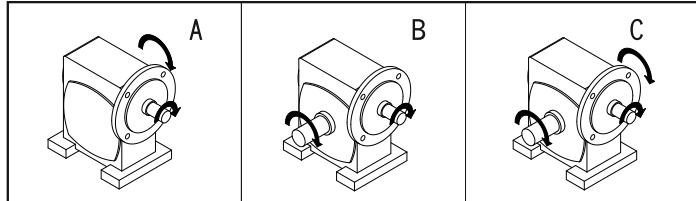
| Size | Ratio | TORQUE CODE | A | AB | AC | AD | AE | B | BB | BC | BD | CA | CB | CC | K | CE | Z |
|------|--|-------------|------------|----------------|-----|-----|------------|-----|-----|-----|-----|------------|-----|-----|------------|----------|----|
| 50 | 1/10 1/15 1/20 1/30 1/40 1/50 1/60 | M5 | 257 | 119.5 | 110 | 140 | 118 | 147 | 95 | 95 | 120 | 170 | 80 | 50 | 76 | 15 | 11 |
| 60 | | M10 | 264 | 117 | 120 | 150 | 123 | 168 | 110 | 105 | 130 | 200 | 90 | 60 | 102 | 17.5 | 11 |
| 70 | | M10 M20 | 296 316 | 134.5 144.5 | 150 | 190 | 138 151 | 195 | 130 | 115 | 150 | 226 238 | 105 | 70 | 102 127 | 20 22 | 15 |
| 80 | | M20 M40 | 338 360 | 156.5 162 | 180 | 220 | 161 171 | 210 | 140 | 135 | 170 | 264 276 | 120 | 80 | 127 152 | 20 23 | 15 |
| 100 | | M40 | 411 | 187 | 220 | 270 | 196 | 260 | 170 | 155 | 190 | 326 | 150 | 100 | 152 | 25 | 15 |

| Size | Output Shaft | | | Oil (l) | Weight (kg) |
|------|--------------|----|--------|---------|-------------|
| | LS | S | W * X | | |
| 50 | 40 | 17 | 5 * 3 | 0.22 | 7.2 |
| 60 | 50 | 22 | 7 * 4 | 0.32 | 10 |
| 70 | 60 | 28 | 7 * 4 | 0.55 | 15 |
| 80 | 65 | 32 | 10 * 5 | 0.77 | 20.2 |
| 100 | 75 | 38 | 10 * 5 | 1.53 | 39.5 |



52

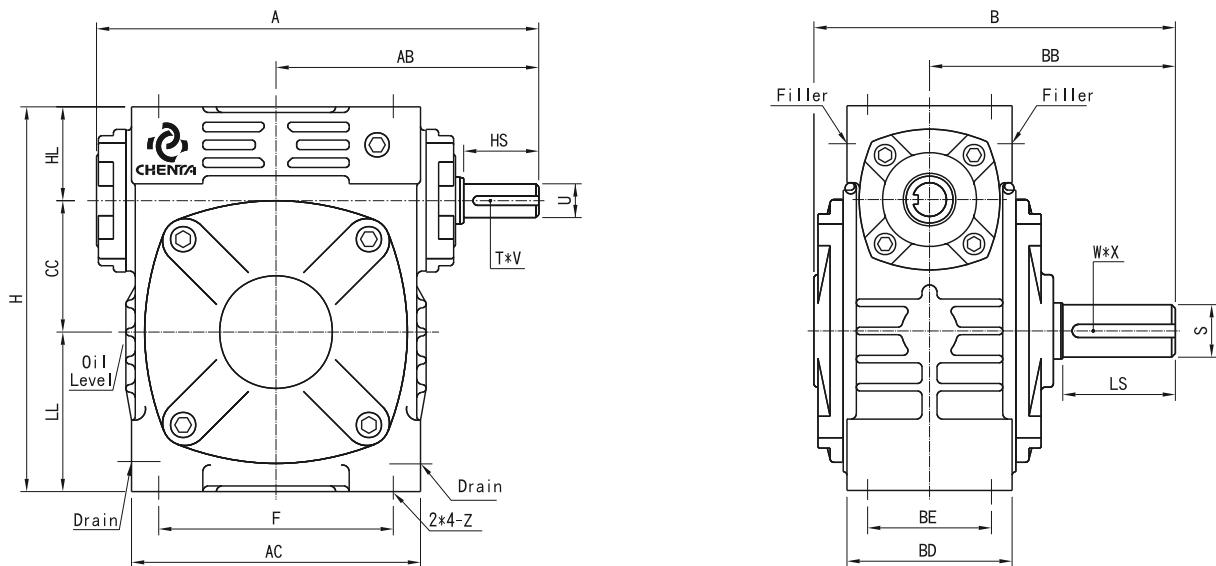
Shaft Direction



Unit:mm

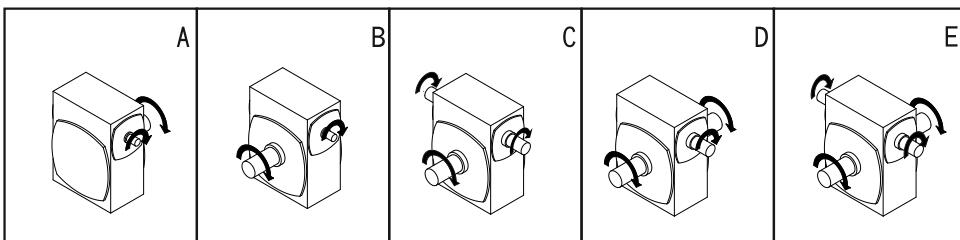
| Size | Ratio | A | AB | AC | AD | AE | B | BB | BC | BD | CA | CB | CC | CE | Z |
|------|----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 60 | 1/10 1/15 | 202 | 75 | 120 | 150 | 49 | 190 | 110 | 105 | 130 | 230 | 90 | 60 | 20 | 11 |
| 70 | | 236 | 93 | 150 | 190 | 47 | 230 | 130 | 115 | 150 | 275 | 105 | 70 | 20 | 15 |
| 80 | 1/20 1/30 | 264 | 103 | 180 | 220 | 57 | 255 | 140 | 135 | 170 | 315 | 120 | 80 | 20 | 15 |
| 100 | | 329 | 132 | 220 | 270 | 60 | 285 | 170 | 155 | 190 | 365 | 150 | 100 | 25 | 15 |
| 120 | 1/40 1/50 1/60 | 366 | 152 | 260 | 320 | 60 | 305 | 190 | 180 | 230 | 415 | 180 | 120 | 30 | 18 |

| Size | Input Flange | | | | | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|--------------|-----|-----|-----|----|-------------|----|-------|--------------|----|--------|------------|----------------|
| | LA | LB | LC | LE | Z1 | HS | U | T * V | LS | S | W * X | | |
| 60 | 146 | 125 | 160 | 4.5 | 9 | 40 | 15 | 5 * 3 | 50 | 22 | 7 * 4 | 0.5 | 8.5 |
| 70 | 180 | 160 | 200 | 4.5 | 11 | 40 | 18 | 5 * 3 | 60 | 28 | 7 * 4 | 0.8 | 14 |
| 80 | 210 | 186 | 230 | 4.5 | 11 | 50 | 22 | 7 * 4 | 65 | 32 | 10 * 5 | 1.2 | 19 |
| 100 | 210 | 186 | 230 | 4.5 | 11 | 50 | 25 | 7 * 4 | 75 | 38 | 10 * 5 | 2.2 | 38 |
| 120 | 210 | 186 | 230 | 4.5 | 11 | 50 | 30 | 7 * 4 | 85 | 45 | 12 * 5 | 4.2 | 64 |



53

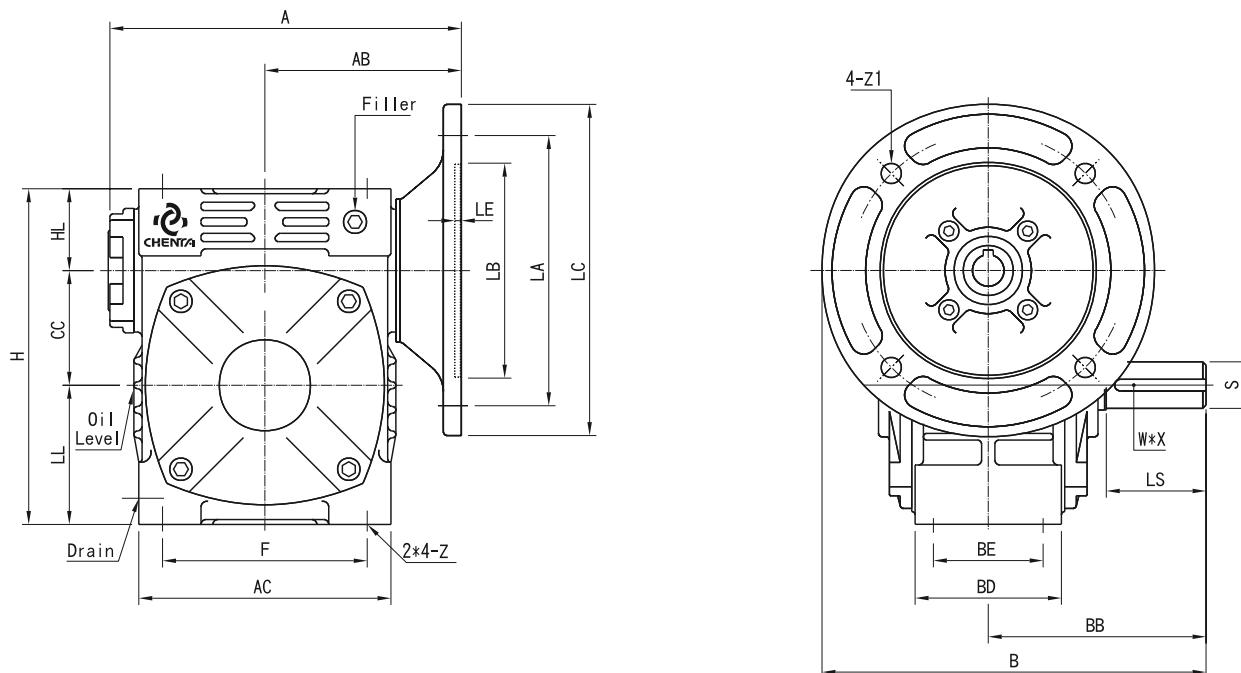
Shaft Direction



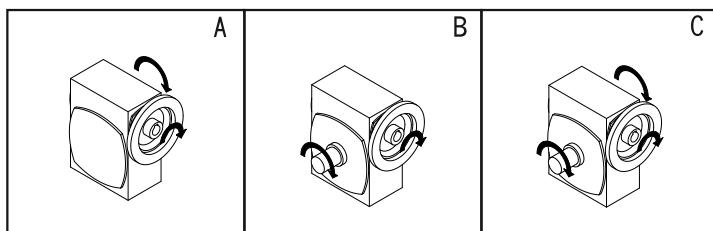
Unit:mm

| Size | Ratio | A | AB | AC | B | BB | BD | BE | CC | F | H | HL | LL | Z |
|------|--|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40 | 1/10 1/15 1/20 1/30 1/40 1/50 1/60 | 157 | 96.5 | 102 | 126 | 84 | 68 | 54 | 40 | 80 | 127 | 34 | 53 | M8 |
| 50 | | 181 | 107 | 115 | 147 | 95 | 68 | 50 | 50 | 90 | 150 | 35 | 65 | M8 |
| 60 | | 204 | 124 | 127 | 168 | 110 | 78 | 54 | 60 | 100 | 177 | 42 | 75 | M10 |
| 70 | | 234 | 140 | 154 | 196 | 130 | 88 | 66 | 70 | 125 | 205 | 50 | 85 | M10 |
| 80 | | 265 | 160 | 175 | 216 | 140 | 97 | 75 | 80 | 145 | 232 | 60 | 92 | M10 |
| 100 | | 325 | 190 | 224 | 262 | 170 | 116 | 91 | 100 | 187 | 310 | 80 | 130 | M12 |
| 120 | | 389 | 230 | 264 | 291 | 190 | 136 | 100 | 120 | 232 | 370 | 95 | 155 | M14 |
| 135 | | 435 | 260 | 300 | 320 | 210 | 144 | 111 | 135 | 264 | 425 | 105 | 185 | M16 |
| 155 | | 479 | 286 | 330 | 377 | 242 | 152 | 120 | 155 | 280 | 461 | 103 | 203 | M16 |
| 175 | | 517 | 308 | 370 | 381 | 248 | 185 | 140 | 175 | 320 | 521 | 123 | 223 | M16 |

| Size | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|--------------|----|----------|---------|-------------|
| | HS | U | T * V | LS | S | W * X | | |
| 40 | 28 | 12 | 4 * 2.5 | 35 | 16 | 5 * 3.0 | 0.18 | 5 |
| 50 | 30 | 12 | 4 * 2.5 | 40 | 17 | 5 * 3.0 | 0.26 | 6 |
| 60 | 40 | 15 | 5 * 3 | 50 | 22 | 7 * 4.0 | 0.4 | 8 |
| 70 | 40 | 18 | 5 * 3 | 60 | 28 | 7 * 4.0 | 0.7 | 14 |
| 80 | 50 | 22 | 7 * 4 | 65 | 32 | 10 * 5.0 | 1.15 | 19 |
| 100 | 50 | 25 | 7 * 4 | 75 | 38 | 10 * 5.0 | 2.2 | 36 |
| 120 | 65 | 30 | 7 * 4 | 85 | 45 | 12 * 5.0 | 4.8 | 48 |
| 135 | 75 | 35 | 10 * 5 | 95 | 55 | 15 * 5.0 | 6.3 | 70 |
| 155 | 85 | 40 | 10 * 5 | 100 | 60 | 15 * 5.0 | 7.8 | 105 |
| 175 | 85 | 45 | 12 * 5 | 110 | 65 | 18 * 6.0 | 12.2 | 145 |



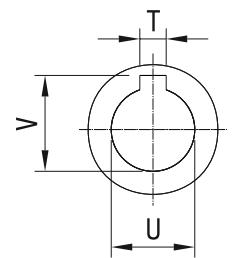

Shaft Direction



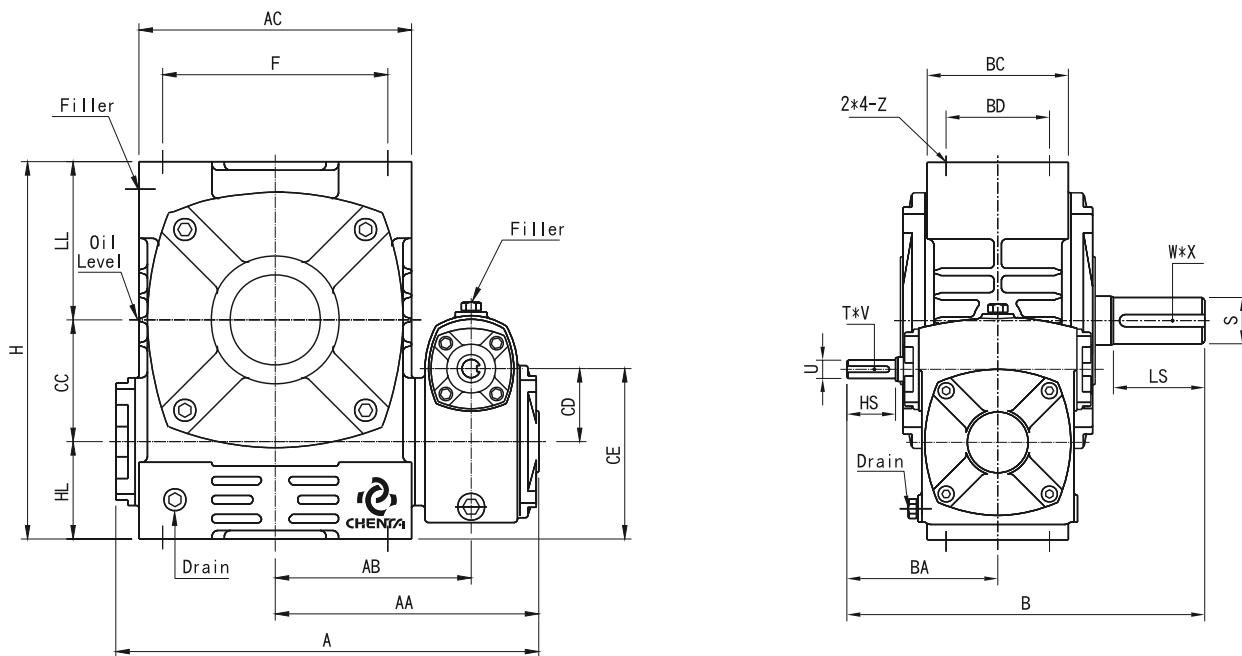
Unit:mm

| Size | Ratio | A | AB | AC | B | BB | BD | BE | CC | F | H | HL | LL | Z | Input Bore | | |
|------|-------|------------|------------|-----|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|---------|--------------|
| | | | | | | | | | | | | | | | U | T | V |
| 40 | 1/10 | 151 | 85 | 102 | 164 | 84 | 68 | 54 | 40 | 80 | 127 | 34 | 53 | M8 | 11 | 4 | 12.8 |
| 50 | | 174 | 97 | 115 | 175 | 95 | 68 | 50 | 50 | 90 | 150 | 35 | 65 | M8 | 11 | 4 | 12.8 |
| 60 | 1/20 | 177 | 97 | 127 | 190 | 110 | 78 | 54 | 60 | 100 | 177 | 42 | 75 | M10 | 11 | 4 | 12.8 |
| 70 | | 213 223 | 118 120 | 154 | 210 230 | 130 | 88 | 66 | 70 | 125 | 205 | 50 | 85 | M10 | 14 | 5 | 16.3 |
| 80 | 1/30 | 235 | 130 | 175 | 240 | 140 | 97 | 75 | 80 | 145 | 232 | 60 | 92 | M10 | 19 | 6 | 21.8 |
| 100 | | 273 275 | 140 142 | 224 | 270 295 | 170 | 116 | 90 | 100 | 187 | 310 | 80 | 130 | M12 | 24 | 8 | 27.3 |
| 120 | 1/50 | 339 | 180 | 264 | 315 | 190 | 136 | 100 | 120 | 232 | 370 | 95 | 155 | M14 | 28 | 8 | 31.3 |
| 135 | | 370 393 | 195 218 | 300 | 335 360 | 210 | 144 | 111 | 135 | 264 | 425 | 105 | 185 | M16 | 28 38 | 8 10 | 31.3 41.5 |

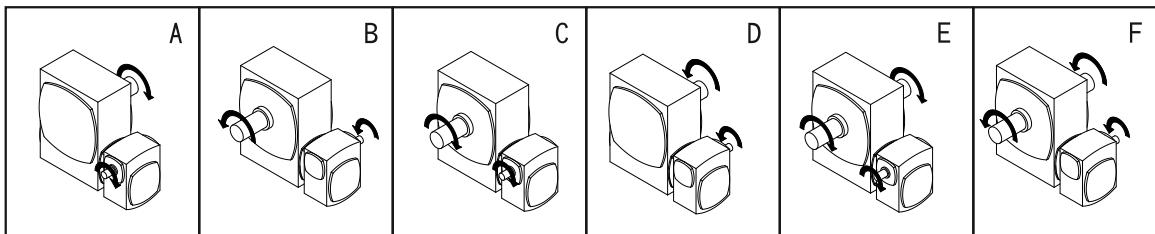
| Size | Output Shaft | | | Flange | | | | HP | Oil (l) | Weight (kg) | |
|------|--------------|----|--------|------------|------------|------------|----|------------|------------|-------------|----|
| | LS | S | W * X | LA | LB | LC | LE | | | | |
| 40 | 35 | 16 | 5 * 3 | 130 | 110 | 160 | 4 | M8 | 1/4 | 0.18 | 6 |
| 50 | 40 | 17 | 5 * 3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.26 | 7 |
| 60 | 50 | 22 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.4 | 9 |
| 70 | 60 | 28 | 7 * 4 | 130 165 | 110 130 | 160 200 | 4 | M8 M10 | 1/2 1 | 0.7 | 16 |
| 80 | 65 | 32 | 10 * 5 | 165 | 130 | 200 | 5 | M10 | 1/2 | 1.15 | 21 |
| 100 | 75 | 38 | 10 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2/3 | 2.2 | 39 |
| 120 | 85 | 45 | 12 * 5 | 215 | 180 | 250 | 5 | M12 | 3/5 | 4.8 | 52 |
| 135 | 95 | 55 | 15 * 5 | 215 265 | 180 230 | 250 300 | 5 | 15 | 5/5 | 6.3 | 74 |



INPUT-BORE VIEW



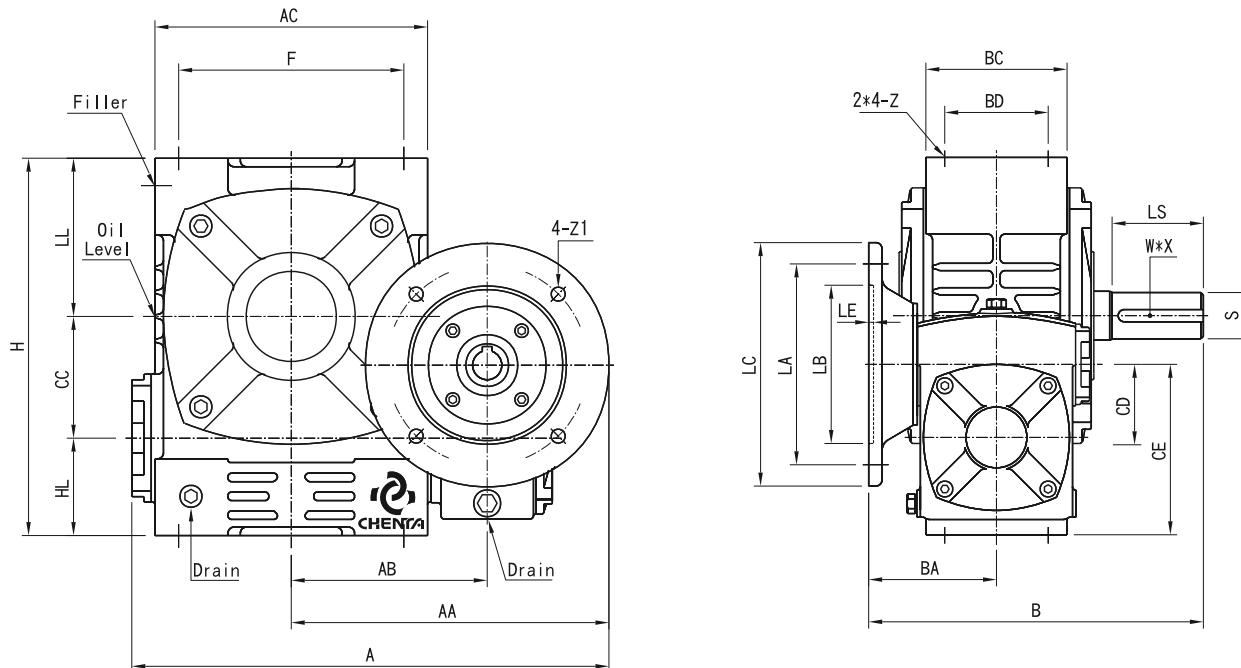
Shaft Direction



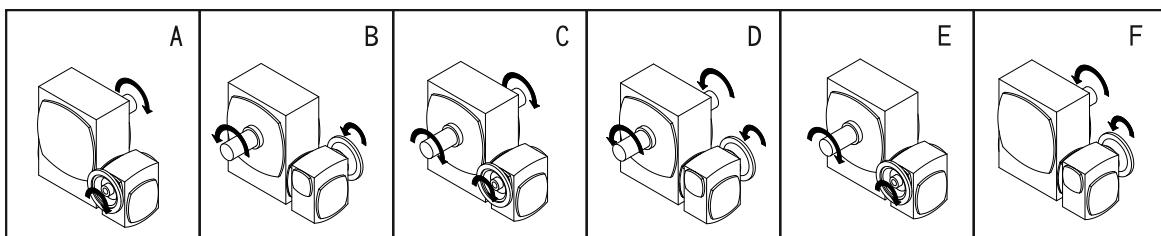
Unit:mm

| Size | Ratio | A | AA | AB | AC | F | B | BA | BC | BD | CC | CD | CE | H | HL |
|---------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40-70 | 1/100 1/3600 | 270 | 175 | 131 | 154 | 125 | 213 | 83 | 88 | 66 | 70 | 40 | 90 | 205 | 50 |
| 50-80 | | 289 | 184 | 132 | 175 | 145 | 247 | 107 | 97 | 75 | 80 | 50 | 110 | 232 | 60 |
| 60-100 | | 352 | 219 | 161 | 224 | 187 | 294 | 124 | 116 | 91 | 100 | 60 | 140 | 310 | 80 |
| 70-120 | | 417 | 258 | 192 | 264 | 232 | 330 | 140 | 136 | 100 | 120 | 70 | 165 | 370 | 95 |
| 80-135 | | 462 | 287 | 211 | 300 | 264 | 370 | 160 | 144 | 111 | 135 | 80 | 185 | 425 | 105 |
| 100-155 | | 540 | 340 | 257 | 330 | 280 | 434 | 192 | 152 | 120 | 155 | 100 | 203 | 461 | 103 |
| 120-175 | | 858 | 376 | 275 | 370 | 320 | 478 | 230 | 185 | 140 | 175 | 120 | 243 | 521 | 123 |

| Size | LL | Z | Input Shaft | | | Output Shaft | | | Oil (l) | Weight (kg) |
|---------|-----|-----|-------------|----|---------|--------------|----|--------|------------|----------------|
| | | | HS | U | T * V | LS | S | W * X | | |
| 40-70 | 85 | M10 | 25 | 12 | 4 * 2,5 | 60 | 28 | 7 * 4 | 0.65 | 17 |
| 50-80 | 92 | M10 | 30 | 12 | 4 * 2,5 | 65 | 32 | 10 * 5 | 1.05 | 23 |
| 60-100 | 130 | M12 | 40 | 15 | 5 * 3 | 75 | 38 | 10 * 5 | 1.7 | 42 |
| 70-120 | 155 | M14 | 40 | 18 | 5 * 3 | 85 | 45 | 12 * 5 | 3 | 73 |
| 80-135 | 185 | M16 | 50 | 22 | 7 * 4 | 95 | 55 | 15 * 4 | 4.75 | 84 |
| 100-155 | 203 | M16 | 50 | 25 | 7 * 4 | 100 | 60 | 15 * 5 | 6.5 | 121 |
| 120-175 | 223 | M16 | 65 | 30 | 7 * 4 | 110 | 65 | 18 * 6 | 9.8 | 168 |



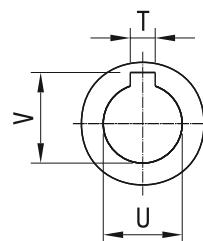
Shaft Direction



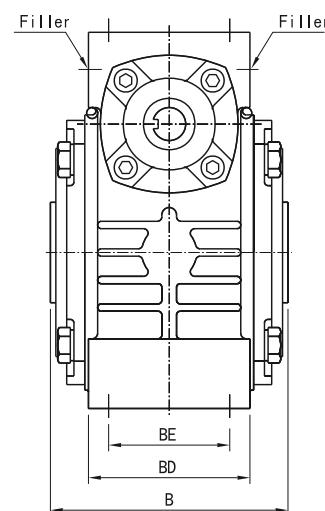
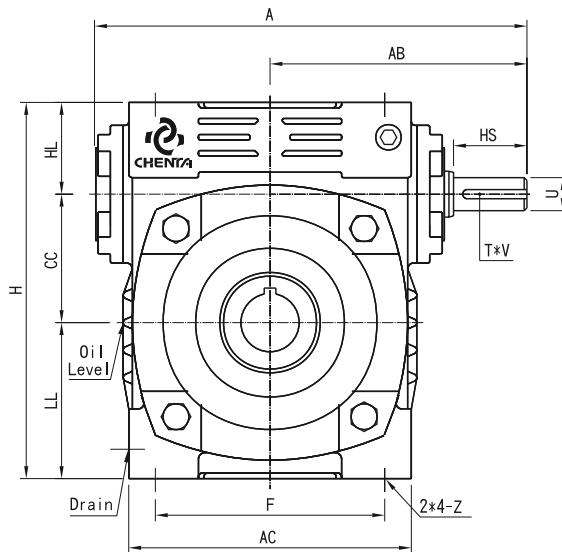
Unit:mm

| Size | Ratio | Input Bore | | | | | | | | | | | | | | | | | | |
|---------|-----------------|------------|------------|-----|-----|-----|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|
| | | U | T | V | A | AA | AB | AC | F | B | BA | BC | BD | CC | CD | CE | H | LL | HL | Z |
| 40-70 | 1/100 1/3600 | 306 | 211 | 131 | 154 | 125 | 213 | 79 | 88 | 66 | 70 | 40 | 90 | 205 | 85 | 50 | M10 | 11 | 4 | 12.8 |
| 50-80 | | 316 | 212 | 132 | 175 | 145 | 237 | 97 | 97 | 75 | 80 | 50 | 110 | 232 | 92 | 60 | M10 | 11 | 4 | 12.8 |
| 60-100 | | 374 | 241 | 161 | 224 | 187 | 267 | 97 | 116 | 91 | 100 | 60 | 140 | 310 | 130 | 80 | M12 | 11 | 4 | 12.8 |
| 70-120 | | 431 451 | 272 292 | 192 | 264 | 232 | 308 310 | 118 120 | 136 | 100 | 120 | 70 | 165 | 370 | 155 | 95 | M14 | 14 | 5 | 16.3 |
| 80-135 | | 481 | 311 | 211 | 300 | 264 | 340 | 130 | 144 | 111 | 135 | 80 | 185 | 425 | 185 | 105 | M16 | 19 | 6 | 21.8 |
| 100-155 | | 545 574 | 357 382 | 257 | 330 | 280 | 382 407 | 140 165 | 152 | 120 | 155 | 100 | 203 | 461 | 203 | 103 | M16 | 24 | 8 | 27.3 |
| 120-175 | | 608 | 400 | 275 | 370 | 320 | 428 | 180 | 185 | 140 | 175 | 120 | 243 | 521 | 223 | 123 | M16 | 28 | 8 | 31.3 |

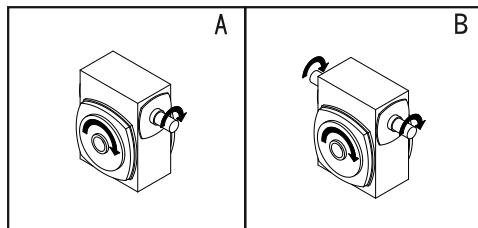
| Size | Output Shaft | | | | Flange | | | | HP | Oil (l) | Weight (kg) |
|---------|--------------|----|--------|------------|------------|------------|----|------------|----------------|---------|-------------|
| | LS | S | W * X | LA | LB | LC | LE | Z1 | | | |
| 40-70 | 60 | 28 | 7 * 4 | 130 | 110 | 160 | 4 | M8 | 1/4HP | 0.65 | 18 |
| 50-80 | 65 | 32 | 10 * 5 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 1.05 | 24 |
| 60-100 | 75 | 38 | 10 * 5 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 1.7 | 43 |
| 70-120 | 85 | 45 | 12 * 5 | 130 165 | 110 130 | 160 200 | 5 | M8 M10 | 1/2HP 1HP | 3 | 74 |
| 80-135 | 95 | 55 | 15 * 5 | 165 | 130 | 200 | 5 | M10 | 1HP 2HP | 4.75 | 87 |
| 100-155 | 100 | 60 | 15 * 5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2HP 3HP | 6.5 | 125 |
| 120-175 | 110 | 65 | 18 * 9 | 215 | 180 | 250 | 5 | 15 | 3HP 5HP | 9.8 | 176 |



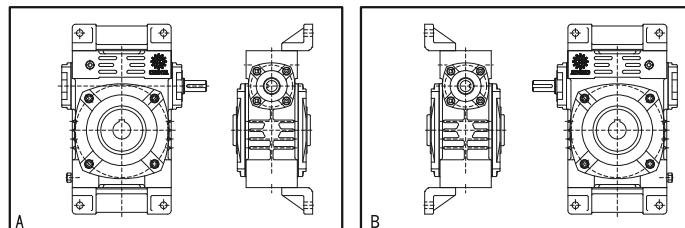
INPUT-BORE VIEW



Shaft Direction



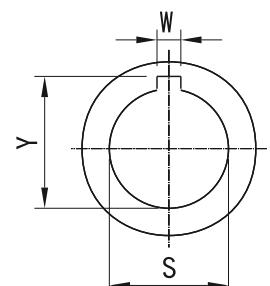
UHS+L型腳座 (UHS+L-BASE)



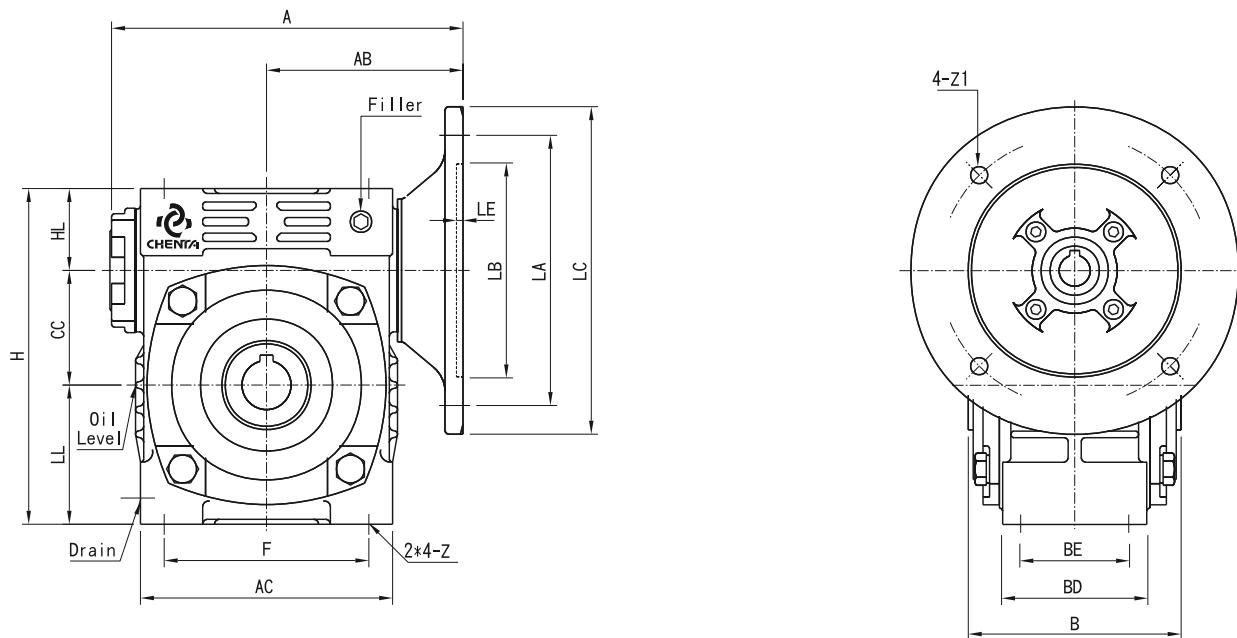
Unit:mm

| Size | Ratio | A | AB | AC | B | BD | BE | CC | F | H | HL | LL | Z |
|------|-------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40 | 1/10 | 157 | 96.5 | 102 | 110 | 68 | 54 | 40 | 80 | 127 | 34 | 53 | M8 |
| 50 | | 181 | 107 | 115 | 110 | 68 | 50 | 50 | 90 | 150 | 35 | 65 | M8 |
| 60 | | 204 | 124 | 127 | 117 | 78 | 54 | 60 | 100 | 177 | 42 | 75 | M10 |
| 70 | | 234 | 140 | 154 | 130 | 88 | 66 | 70 | 125 | 205 | 50 | 85 | M10 |
| 80 | | 265 | 160 | 175 | 144 | 97 | 75 | 80 | 145 | 232 | 60 | 92 | M10 |
| 100 | | 325 | 192 | 224 | 175 | 116 | 91 | 100 | 187 | 310 | 80 | 130 | M12 |
| 120 | | 389 | 230 | 264 | 200 | 136 | 100 | 120 | 232 | 370 | 95 | 155 | M14 |
| 135 | | 435 | 260 | 300 | 230 | 144 | 111 | 135 | 264 | 425 | 105 | 185 | M16 |
| 155 | | 479 | 286 | 330 | 256 | 152 | 120 | 155 | 280 | 461 | 103 | 203 | M16 |
| 175 | | 517 | 308 | 370 | 282 | 185 | 140 | 175 | 320 | 521 | 123 | 223 | M16 |

| Size | Input Shaft | | | Output Bore | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|-------------|----|------|------------|----------------|
| | HS | U | T * V | S | W | Y | | |
| 40 | 28 | 12 | 4 * 2.5 | 19 | 5 | 21 | 0.18 | 5 |
| 50 | 30 | 12 | 4 * 2.5 | 20 | 5 | 22.3 | 0.26 | 6 |
| 60 | 40 | 15 | 5 * 3 | 25 | 7 | 28 | 0.4 | 8 |
| 70 | 40 | 18 | 5 * 3 | 30 | 8 | 33.3 | 0.7 | 14 |
| 80 | 50 | 22 | 7 * 4 | 35 | 10 | 38.5 | 1.15 | 19 |
| 100 | 50 | 25 | 7 * 4 | 40 | 12 | 43.5 | 2.2 | 36 |
| 120 | 65 | 30 | 7 * 4 | 45 | 12 | 48.5 | 4.8 | 48 |
| 135 | 75 | 35 | 10 * 5 | 60 | 15 | 65 | 6.3 | 70 |
| 155 | 85 | 40 | 10 * 5 | 70 | 20 | 74.9 | 7.8 | 105 |
| 175 | 85 | 45 | 12 * 5 | 80 | 22 | 85.4 | 12.2 | 145 |

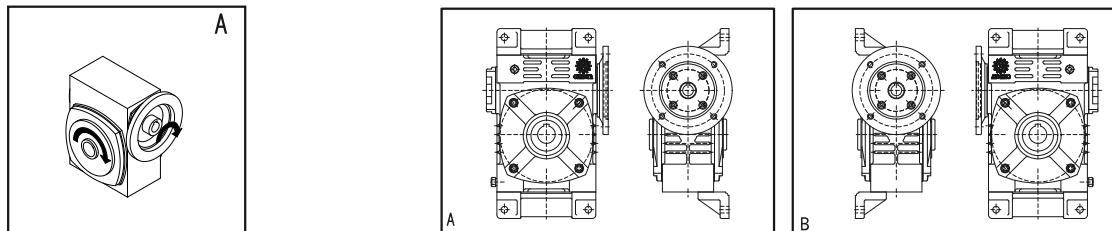


OUTPUT-BORE VIEW



58

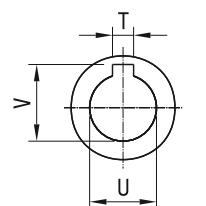
Shaft Direction UHM+L型腳座(UHM+L-BASE)



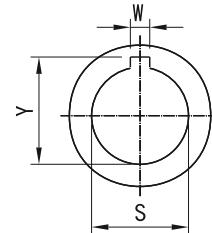
Unit:mm

| Size | Ratio | A | AB | AC | B | BD | BE | CC | F | H | HL | LL | Z | Input Bore | | |
|------|-------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|---------|--------------|
| | | | | | | | | | | | | | | U | T | V |
| 40 | 1/10 | 151 | 85 | 102 | 110 | 68 | 54 | 40 | 80 | 127 | 34 | 53 | M8 | 11 | 4 | 12.8 |
| 50 | 1/15 | 174 | 97 | 115 | 110 | 68 | 50 | 50 | 90 | 150 | 35 | 65 | M8 | 11 | 4 | 12.8 |
| 60 | 1/20 | 177 | 97 | 127 | 117 | 78 | 54 | 60 | 100 | 177 | 42 | 75 | M10 | 11 | 4 | 12.8 |
| 70 | 1/30 | 213 223 | 118 120 | 154 | 130 | 88 | 66 | 70 | 125 | 205 | 50 | 85 | M10 | 14 | 5 | 16.3 |
| 80 | 1/40 | 235 | 130 | 175 | 144 | 97 | 75 | 80 | 145 | 232 | 60 | 92 | M10 | 19 | 6 | 21.8 |
| 100 | 1/50 | 276 277 | 140 141 | 224 | 175 | 116 | 91 | 100 | 187 | 310 | 80 | 130 | M12 | 24 | 8 | 27.3 |
| 120 | 1/60 | 339 | 180 | 264 | 200 | 136 | 100 | 120 | 232 | 370 | 95 | 155 | M14 | 28 | 8 | 31.3 |
| 135 | | 365 388 | 195 218 | 300 | 230 | 144 | 111 | 135 | 264 | 425 | 105 | 185 | M16 | 28 38 | 8 10 | 31.3 41.5 |

| Size | Output Bore | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|-------------|----|------|------------|------------|------------|--------|------------|------------|---------|-------------|
| | S | W | Y | LA | LB | LC | LE | Z1 | | | |
| 40 | 19 | 5 | 21 | 130 | 110 | 160 | 4 | M8 | 1/4 | 0.18 | 6 |
| 50 | 20 | 5 | 22.3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.26 | 7 |
| 60 | 25 | 7 | 28 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.4 | 9 |
| 70 | 30 | 8 | 33.5 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2 1 | 0.7 | 16 |
| 80 | 35 | 10 | 38.5 | 165 | 130 | 200 | 5 | M10 | 1 2 | 1.15 | 21 |
| 100 | 40 | 12 | 43.5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 2.2 | 39 |
| 120 | 45 | 12 | 48.5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 4.8 | 52 |
| 135 | 60 | 15 | 65 | 215 265 | 180 230 | 250 300 | 5 | Ø15 | 5 7.5 | 6.3 | 74 |

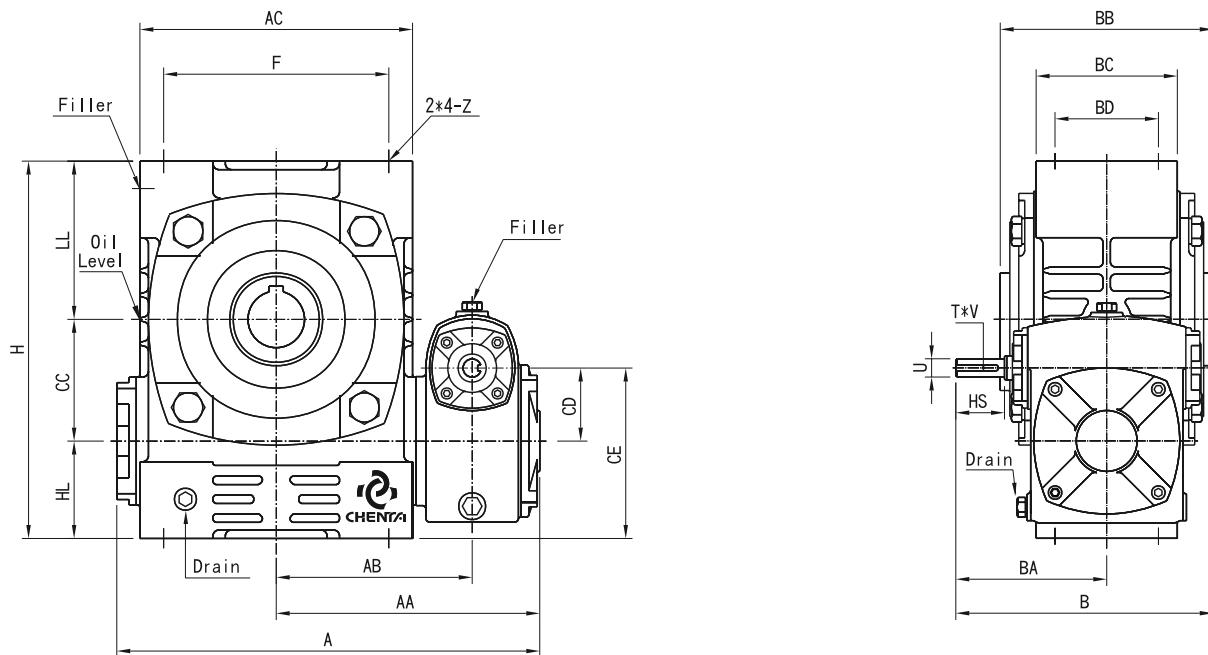


INPUT-BORE VIEW

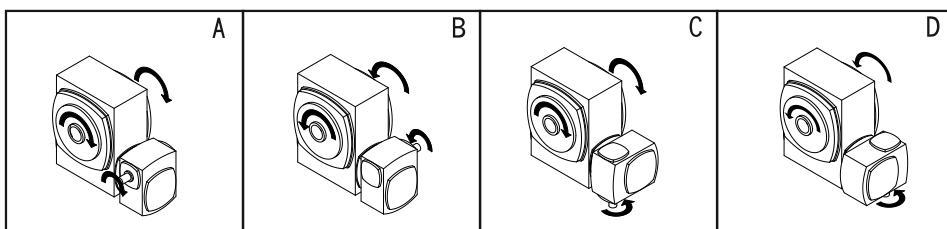


OUTPUT-BORE VIEW

Size : 40/70~80/135



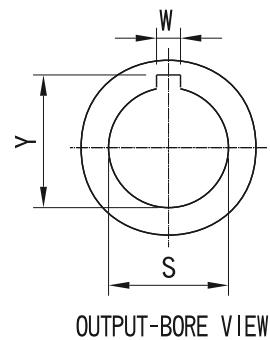
Shaft Direction

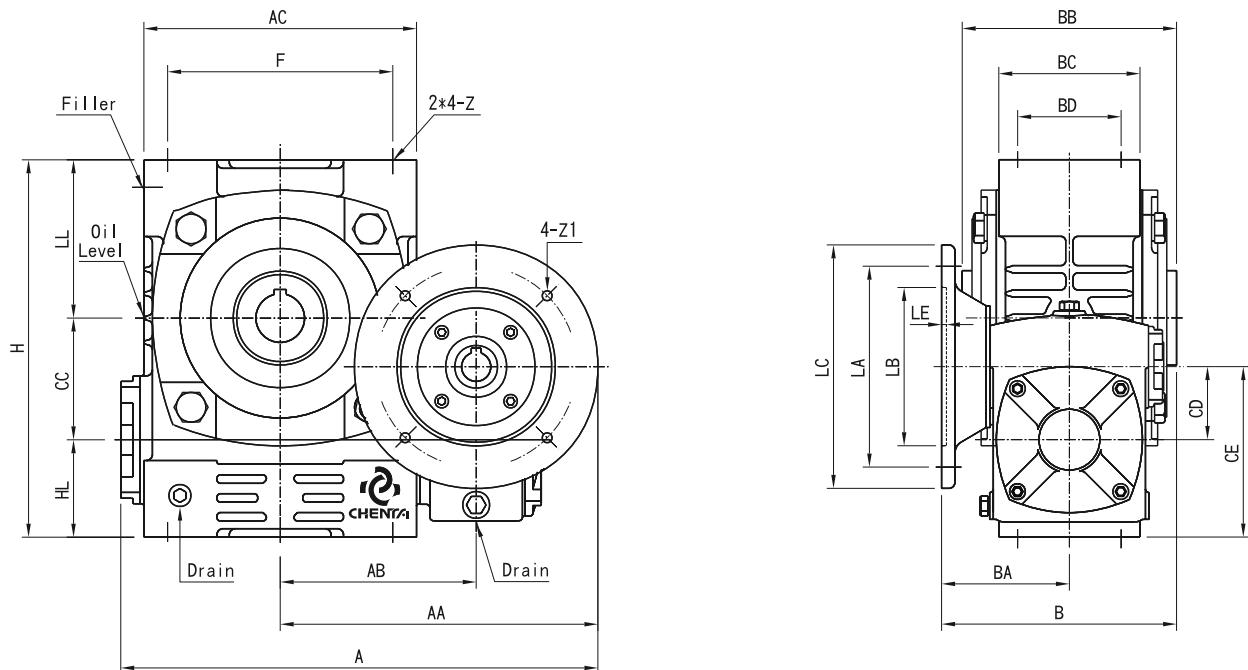


Unit:mm

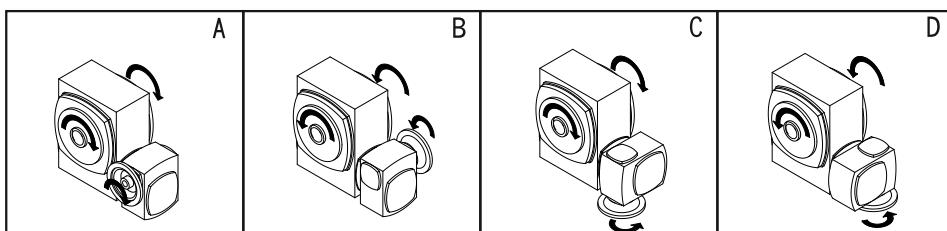
| Size | Ratio | A | AA | AB | AC | F | B | BA | BB | BD | BC | CC | CD | CE | H | HL | LL |
|---------|-----------------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40-70 | 1/100 1/3600 | 270 | 175 | 131 | 154 | 125 | 148 | 83 | 130 | 66 | 88 | 70 | 40 | 90 | 205 | 50 | 85 |
| 50-80 | | 289 | 184 | 132 | 175 | 145 | 179 | 107 | 144 | 75 | 97 | 80 | 50 | 110 | 232 | 60 | 92 |
| 60-100 | | 352 | 219 | 161 | 224 | 187 | 211.5 | 124 | 175 | 91 | 116 | 100 | 60 | 140 | 310 | 80 | 130 |
| 70-120 | | 417 | 258 | 192 | 264 | 232 | 240 | 140 | 200 | 100 | 136 | 120 | 70 | 165 | 370 | 95 | 155 |
| 80-135 | | 462 | 287 | 211 | 300 | 264 | 275 | 160 | 230 | 111 | 144 | 135 | 80 | 185 | 425 | 105 | 185 |
| 100-155 | | 540 | 340 | 257 | 330 | 280 | 320 | 190 | 256 | 120 | 152 | 155 | 100 | 203 | 461 | 103 | 203 |
| 120-175 | | 858 | 376 | 275 | 370 | 320 | 371 | 230 | 282 | 140 | 185 | 175 | 120 | 243 | 521 | 123 | 223 |

| Size | Z | Input Shaft | | | Output Bore | | | Oil (l) | Weight (kg) |
|---------|-----|-------------|----|---------|-------------|----|------|---------|-------------|
| | | HS | U | T * V | S | W | Y | | |
| 40-70 | M10 | 25 | 12 | 4 * 2.5 | 30 | 8 | 33.5 | 0.65 | 17 |
| 50-80 | M10 | 30 | 12 | 4 * 2.5 | 35 | 10 | 38.5 | 1.05 | 23 |
| 60-100 | M12 | 40 | 15 | 5 * 3 | 40 | 12 | 43.5 | 1.7 | 42 |
| 70-120 | M14 | 40 | 18 | 5 * 3 | 45 | 12 | 48.5 | 3 | 73 |
| 80-135 | M16 | 50 | 22 | 7 * 4 | 60 | 15 | 65.0 | 4.75 | 84 |
| 100-155 | M16 | 50 | 25 | 7 * 4 | 70 | 20 | 74.9 | 6.5 | 121 |
| 120-175 | M16 | 65 | 30 | 7 * 4 | 80 | 22 | 85.4 | 9.8 | 168 |





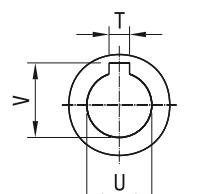
Shaft Direction



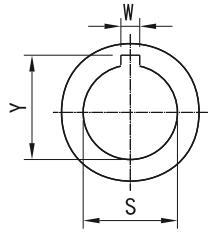
Unit:mm

| Size | Ratio | A | AA | AB | AC | F | B | BA | BB | BC | BD | CC | CD | CE | H | HL | LL | Z |
|---------|-----------------|------------|------------|-----|-----|-----|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40-70 | 1/100 1/3600 | 306 | 211 | 131 | 154 | 125 | 144 | 79 | 130 | 88 | 66 | 70 | 40 | 90 | 205 | 50 | 85 | M10 |
| 50-80 | | 316 | 212 | 132 | 175 | 145 | 169 | 97 | 144 | 97 | 75 | 80 | 50 | 110 | 232 | 60 | 92 | M10 |
| 60-100 | | 374 | 241 | 161 | 224 | 187 | 184 | 97 | 175 | 116 | 91 | 100 | 60 | 140 | 310 | 80 | 130 | M12 |
| 70-120 | | 431 451 | 272 292 | 192 | 264 | 232 | 218 220 | 118 120 | 200 | 136 | 100 | 120 | 70 | 165 | 370 | 95 | 155 | M14 |
| 80-135 | | 481 | 311 | 211 | 300 | 264 | 245 | 130 | 230 | 154 | 111 | 135 | 80 | 185 | 425 | 105 | 185 | M16 |
| 100-155 | | 545 574 | 357 382 | 257 | 330 | 280 | 268 293 | 140 165 | 256 | 152 | 120 | 155 | 100 | 203 | 461 | 103 | 203 | M16 |
| 120-175 | | 608 | 400 | 275 | 370 | 320 | 321 | 180 | 282 | 185 | 140 | 175 | 120 | 243 | 521 | 123 | 223 | M16 |

| Size | Input Bore | | | Output Bore | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|---------|------------|--------|--------------|-------------|----|------|------------|-----|-----|--------|------------|----------------|---------|-------------|
| | U | T | V | S | W | Y | LA | LB | LC | LE | Z1 | | | |
| 40-70 | 11 | 4 | 12.8 | 30 | 8 | 33.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP | 0.65 | 18 |
| 50-80 | 11 14 | 4 5 | 12.8 16.3 | 35 | 10 | 38.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 1.05 | 24 |
| 60-100 | 11 14 | 4 5 | 12.8 16.3 | 40 | 12 | 43.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 1.7 | 43 |
| 70-120 | 14 19 | 5 6 | 16.3 21.8 | 45 | 12 | 48.5 | 130 | 110 | 160 | 4 5 | M8 M10 | 1/2HP 1HP | 3 | 74 |
| 80-135 | 19 24 | 6 8 | 21.8 27.3 | 60 | 15 | 65 | 165 | 130 | 200 | 5 | M10 | 1HP 2HP | 4.75 | 87 |
| 100-155 | 24 28 | 8 | 27.3 31.3 | 70 | 20 | 74.9 | 165 215 | 180 | 250 | 5 | M10 M12 | 2HP 3HP | 6.5 | 125 |
| 120-175 | 28 | 8 | 31.3 | 80 | 22 | 85.4 | 215 | 180 | 250 | 5 | M12 | 3HP 5HP | 9.8 | 176 |



INPUT-BORE VIEW



OUTPUT-BORE VIEW

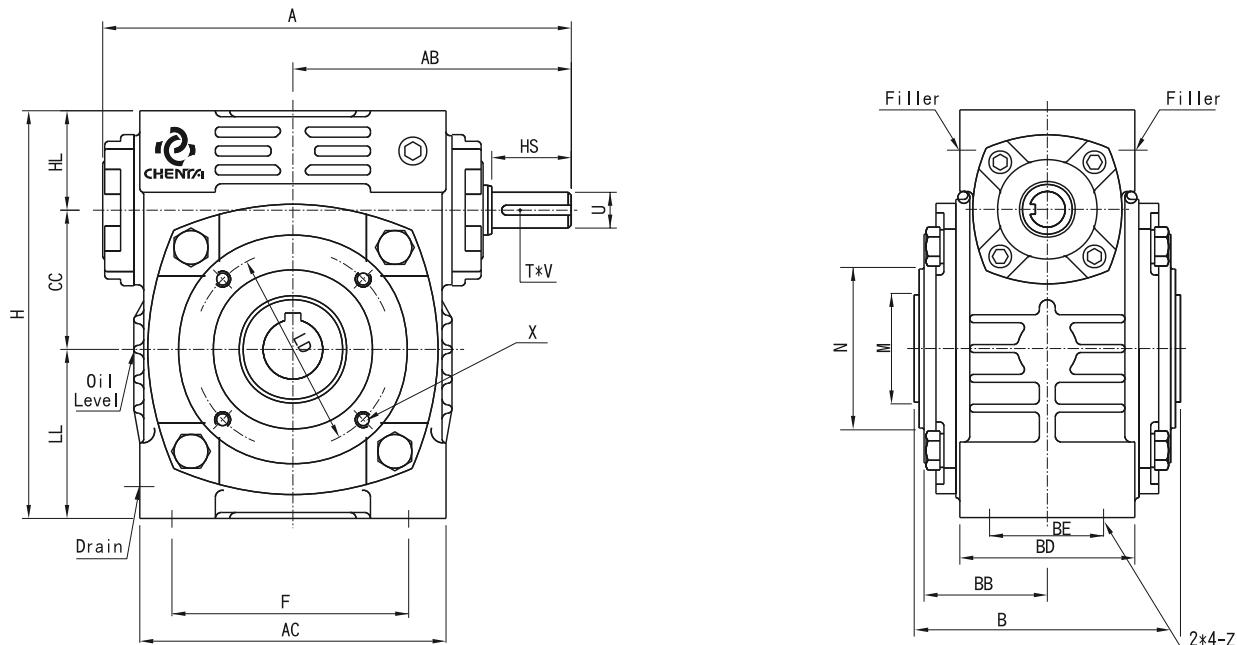


Model : UCS

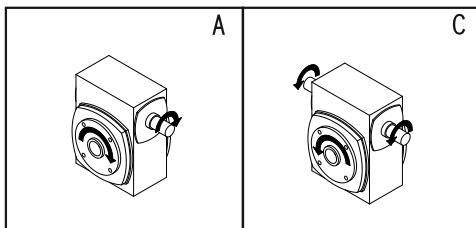
成大齒輪減速機

CHENTA

Size : 50~135



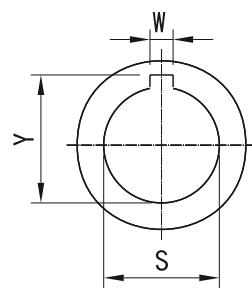
Shaft Direction



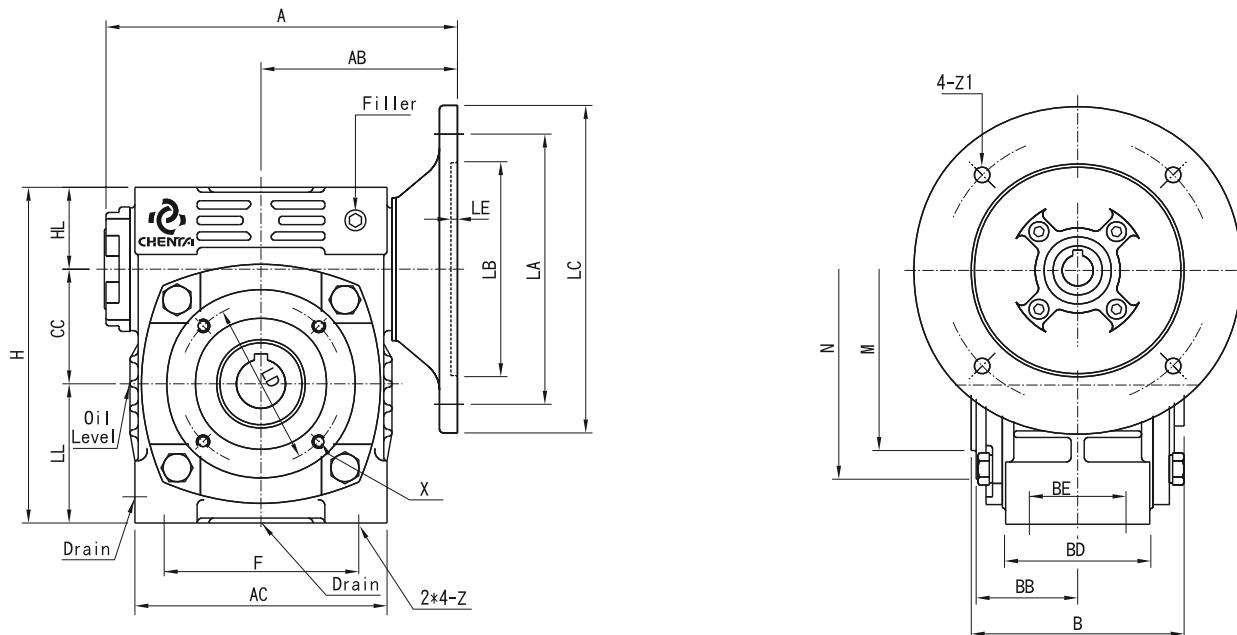
Unit:mm

| Size | Ratio | A | AB | AC | B | BB | BD | BE | CC | F | M | N | H | HL | LL | LD | X | Z |
|------|-------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 50 | 1/10 | 181 | 107 | 115 | 110 | 52 | 68 | 50 | 50 | 90 | 58 | 80 | 150 | 35 | 65 | 70 | 4-M6 | M8 |
| 60 | 1/15 | 204 | 124 | 127 | 117 | 55.5 | 78 | 54 | 60 | 100 | 70 | 96 | 177 | 42 | 75 | 82 | 4-M8 | M10 |
| 70 | 1/20 | 234 | 140 | 154 | 130 | 62 | 88 | 66 | 70 | 125 | 80 | 115 | 205 | 50 | 85 | 100 | 4-M8 | M10 |
| 80 | 1/30 | 265 | 160 | 175 | 144 | 68 | 97 | 75 | 80 | 145 | 95 | 135 | 232 | 60 | 92 | 115 | 4-M10 | M10 |
| 100 | 1/40 | 325 | 192 | 224 | 175 | 83 | 116 | 91 | 100 | 187 | 110 | 160 | 310 | 80 | 130 | 130 | 4-M12 | M12 |
| 120 | 1/50 | 389 | 230 | 264 | 200 | 95 | 136 | 100 | 120 | 232 | 130 | 200 | 370 | 95 | 155 | 165 | 4-M12 | M14 |
| 135 | 1/60 | 435 | 260 | 300 | 230 | 110 | 144 | 111 | 135 | 264 | 160 | 233 | 425 | 105 | 185 | 200 | 6-M12 | M16 |

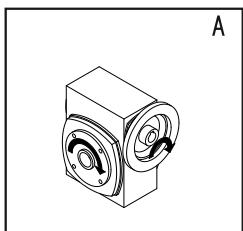
| Size | Input Shaft | | | Output Bore | | | Oil (l) | Weight (kg) |
|------|-------------|----|---------|-------------|----|------|------------|----------------|
| | HS | U | T * V | S | W | Y | | |
| 50 | 30 | 12 | 4 * 2.5 | 20 | 5 | 22,3 | 0.26 | 6 |
| 60 | 40 | 15 | 5 * 3 | 25 | 7 | 28,3 | 0.4 | 8 |
| 70 | 40 | 18 | 5 * 3 | 30 | 8 | 33,5 | 0.7 | 14 |
| 80 | 50 | 22 | 7 * 4 | 35 | 10 | 38,5 | 1.15 | 19 |
| 100 | 50 | 25 | 7 * 4 | 40 | 12 | 43,5 | 2.2 | 36 |
| 120 | 65 | 30 | 7 * 4 | 45 | 12 | 48,5 | 4.8 | 48 |
| 135 | 75 | 35 | 10 * 5 | 60 | 15 | 65 | 6.3 | 70 |



OUTPUT-BORE VIEW



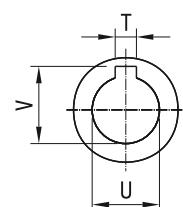
Shaft Direction



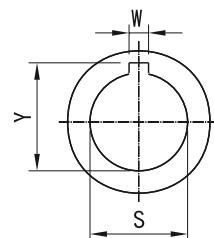
Unit:mm

| Size | Ratio | Input Bore | | | | | | | | | | | | | | | | | |
|------|-------|------------|------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|---------------------|
| | | U | T | V | | | | | | | | | | | | | | | |
| 50 | 1/10 | 174 | 97 | 115 | 110 | 52 | 68 | 50 | 50 | 90 | 58 | 80 | 150 | 35 | 65 | 70 | 4-M6 | M8 | 11/14 4/5 12.8 16.3 |
| 60 | 1/15 | 177 | 97 | 127 | 117 | 55.5 | 78 | 54 | 60 | 100 | 70 | 96 | 177 | 42 | 75 | 82 | 4-M8 | M10 | 11/14 4/5 12.8 16.3 |
| 70 | 1/20 | 213 223 | 118 120 | 154 | 130 | 62 | 88 | 66 | 70 | 125 | 80 | 115 | 205 | 50 | 85 | 100 | 4-M8 | M10 | 14/19 5/6 16.3 21.8 |
| 80 | 1/30 | 235 | 130 | 175 | 144 | 68 | 97 | 75 | 80 | 145 | 95 | 135 | 232 | 60 | 92 | 115 | 4-M10 | M10 | 19/24 6/8 21.8 27.3 |
| 100 | 1/40 | 273 275 | 140 142 | 224 | 175 | 83 | 116 | 91 | 100 | 187 | 110 | 160 | 310 | 80 | 130 | 130 | 4-M12 | M12 | 24/28 8/8 27.3 31.3 |
| 120 | 1/50 | 339 | 180 | 264 | 200 | 95 | 136 | 100 | 120 | 232 | 130 | 200 | 370 | 95 | 155 | 165 | 4-M12 | M14 | 28/38 8/10 31.3 |
| 135 | 1/60 | 370 393 | 195 218 | 300 | 230 | 110 | 144 | 111 | 135 | 264 | 160 | 233 | 425 | 105 | 185 | 200 | 6-M12 | M16 | 28/38 8/10 31.3 |

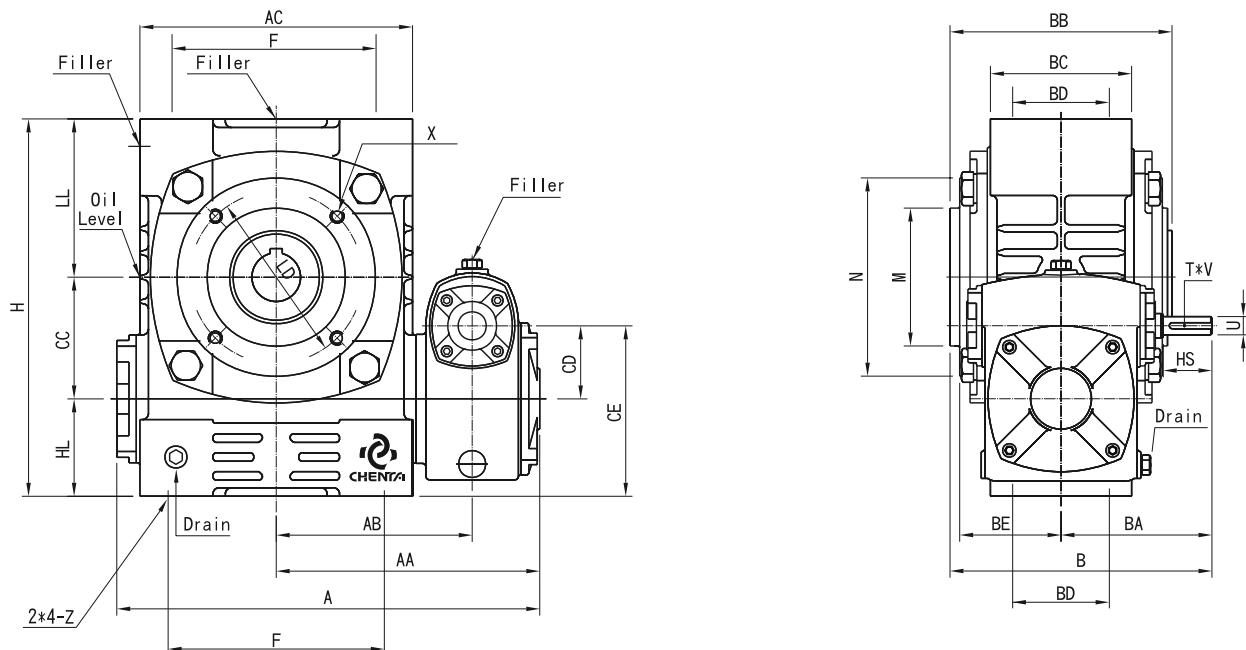
| Size | Output Bore | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|-------------|----|------|------------|------------|------------|--------|------------|----------------|---------|-------------|
| | S | W | Y | LA | LB | LC | LE | Z1 | | | |
| 50 | 20 | 5 | 22.3 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 0.26 | 7 |
| 60 | 25 | 7 | 28 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 0.4 | 9 |
| 70 | 30 | 8 | 33.5 | 130 165 | 110 130 | 160 200 | 4 5 | M8 M10 | 1/2HP 1HP | 0.7 | 16 |
| 80 | 35 | 10 | 38.5 | 165 | 130 | 200 | 5 | M10 | 1HP 2HP | 1.15 | 21 |
| 100 | 40 | 12 | 43.5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2HP 3HP | 2.2 | 39 |
| 120 | 45 | 12 | 48.5 | 215 | 180 | 250 | 5 | M12 | 3HP 5HP | 4.8 | 52 |
| 135 | 60 | 15 | 65 | 215 265 | 180 230 | 250 300 | 5 | M12 M15 | 5HP 7.5HP | 6.3 | 74 |



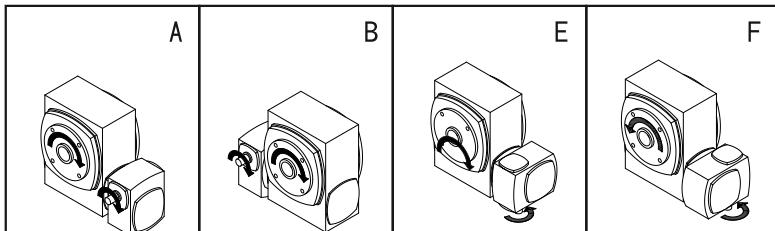
INPUT-BORE VIEW



OUTPUT-BORE VIEW



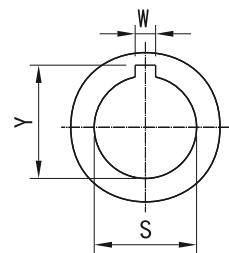
Shaft Direction



Unit:mm

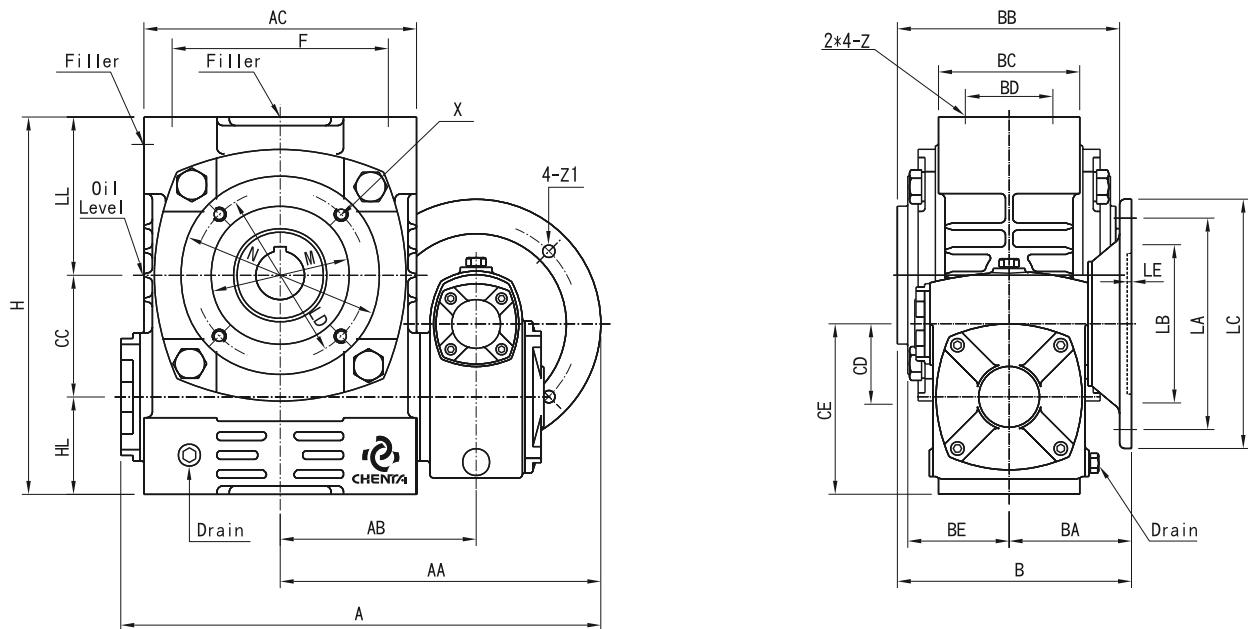
| Size | Ratio | A | AA | AB | AC | B | BA | BB | BD | BC | CC | F | CD | CE | H | HL | LL | BE | LD | Z |
|--------|--------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| 40-70 | | 270 | 175 | 131 | 154 | 148 | 83 | 130 | 66 | 88 | 70 | 125 | 40 | 90 | 205 | 50 | 85 | 62 | 100 | M10 |
| 50-80 | 1/100 | 289 | 184 | 132 | 175 | 179 | 107 | 144 | 75 | 97 | 80 | 145 | 50 | 110 | 232 | 60 | 92 | 68 | 115 | M10 |
| 60-100 | 1/3600 | 352 | 219 | 161 | 224 | 211,5 | 124 | 175 | 91 | 116 | 100 | 187 | 60 | 140 | 310 | 80 | 130 | 83 | 130 | M12 |
| 70-120 | | 417 | 258 | 192 | 264 | 240 | 140 | 200 | 100 | 136 | 120 | 232 | 70 | 165 | 370 | 95 | 155 | 95 | 165 | M14 |
| 80-135 | | 462 | 287 | 211 | 300 | 275 | 160 | 230 | 111 | 144 | 135 | 264 | 80 | 185 | 425 | 105 | 185 | 110 | 200 | M16 |

| Size | M | N | X | Input Shaft | | | Output Bore | | | Oil (l) | Weight (kg) |
|--------|-----|-----|-------|-------------|----|---------|-------------|----|------|---------|-------------|
| | | | | HS | U | T * V | S | W | Y | | |
| 40-70 | 80 | 115 | 4-M8 | 25 | 12 | 4 * 2.5 | 30 | 8 | 33.5 | 0.65 | 17 |
| 50-80 | 95 | 135 | 4-M10 | 30 | 12 | 4 * 2.5 | 35 | 10 | 38.5 | 1.05 | 23 |
| 60-100 | 110 | 160 | 4-M12 | 40 | 15 | 5 * 3 | 40 | 12 | 43.5 | 1.7 | 42 |
| 70-120 | 130 | 200 | 4-M12 | 40 | 18 | 5 * 3 | 45 | 12 | 48.5 | 3 | 73 |
| 80-135 | 160 | 233 | 6-M12 | 50 | 22 | 7 * 4 | 60 | 15 | 65 | 4.75 | 84 |

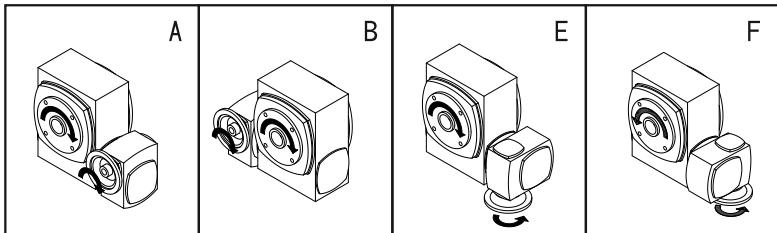


OUTPUT-BORE VIEW

Size : 40/70~80/135



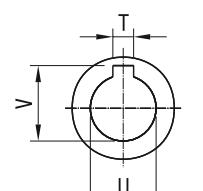
Shaft Direction



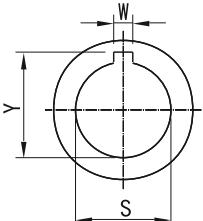
Unit:mm

| Size | Ratio | A | AA | AB | AC | F | B | BA | BB | BC | BD | BE | CC | CD | CE | H | HL | LL | LD | M | N | X | Z |
|--------|-------|------------|------------|-----|-----|-----|------------|------------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 40-70 | 1/100 | 306 | 211 | 131 | 154 | 125 | 150 | 85 | 130 | 88 | 66 | 62 | 70 | 40 | 90 | 205 | 50 | 85 | 100 | 80 | 115 | 4-M8 | M10 |
| 50-80 | | 316 | 212 | 132 | 175 | 145 | 169 | 97 | 144 | 97 | 75 | 68 | 80 | 50 | 110 | 232 | 60 | 92 | 115 | 95 | 135 | 4-M10 | M10 |
| 60-100 | | 374 | 241 | 161 | 224 | 187 | 184 | 97 | 175 | 116 | 91 | 83 | 100 | 60 | 140 | 310 | 80 | 130 | 130 | 110 | 160 | 4-M12 | M12 |
| 70-120 | | 431 451 | 272 292 | 192 | 264 | 232 | 218 220 | 118 120 | 200 | 136 | 100 | 95 | 120 | 70 | 165 | 370 | 95 | 155 | 165 | 130 | 200 | 4-M12 | M14 |
| 80-135 | | 481 | 311 | 211 | 300 | 264 | 245 | 130 | 230 | 144 | 111 | 110 | 135 | 80 | 185 | 425 | 105 | 185 | 200 | 160 | 233 | 6-M12 | M16 |

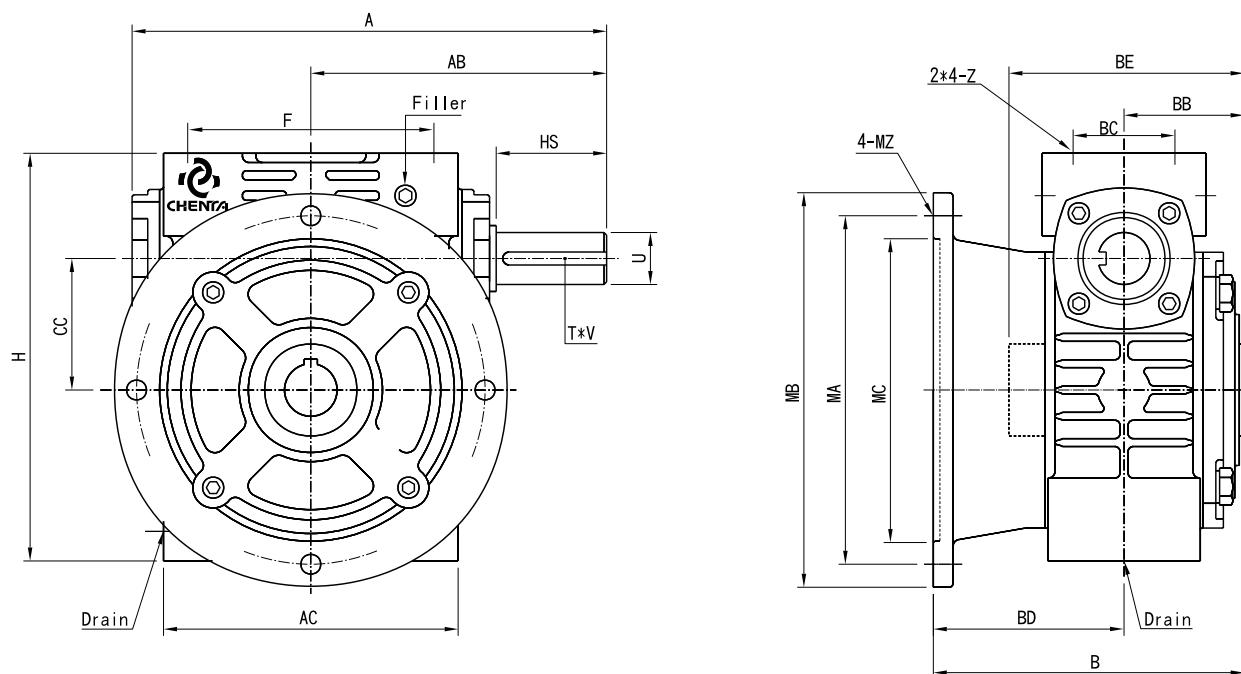
| Size | Input Bore | | | | | | Output Bore | | | | | | Flange | | | | HP | Oil (l) | Weight (kg) | |
|--------|------------|--------|--------------|----|----|------|-------------|------------|------------|----|-----------|----------------|--------|----|--|--|----|---------|-------------|--|
| | U | T | V | S | W | Y | LA | LB | LC | LE | Z1 | | | | | | | | | |
| 40-70 | 11 | 4 | 12.8 | 30 | 8 | 33.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP | 0.65 | 18 | | | | | | |
| 50-80 | 11 14 | 4 5 | 12.8 16.3 | 35 | 10 | 38.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 1.05 | 24 | | | | | | |
| 60-100 | 11 14 | 4 5 | 12.8 16.3 | 40 | 12 | 43.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP 1/2HP | 1.7 | 43 | | | | | | |
| 70-120 | 14 19 | 5 6 | 16.3 21.8 | 45 | 12 | 48.5 | 130 165 | 110 130 | 160 200 | 4 | M8 M10 | 1/2HP 1HP | 3 | 74 | | | | | | |
| 80-135 | 19 24 | 6 8 | 21.8 27.3 | 60 | 15 | 65 | 165 | 130 | 200 | 4 | M10 | 1HP 2HP | 4.75 | 87 | | | | | | |



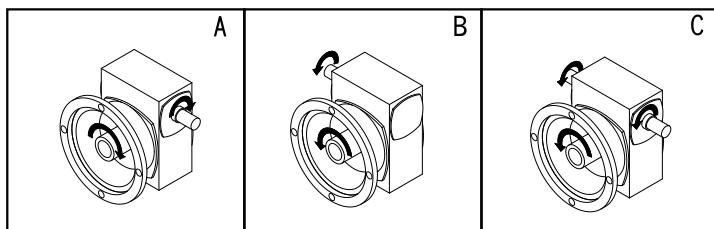
INPUT-BORE VIEW



OUTPUT-BORE VIEW



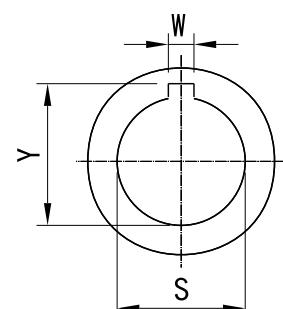
Shaft Direction



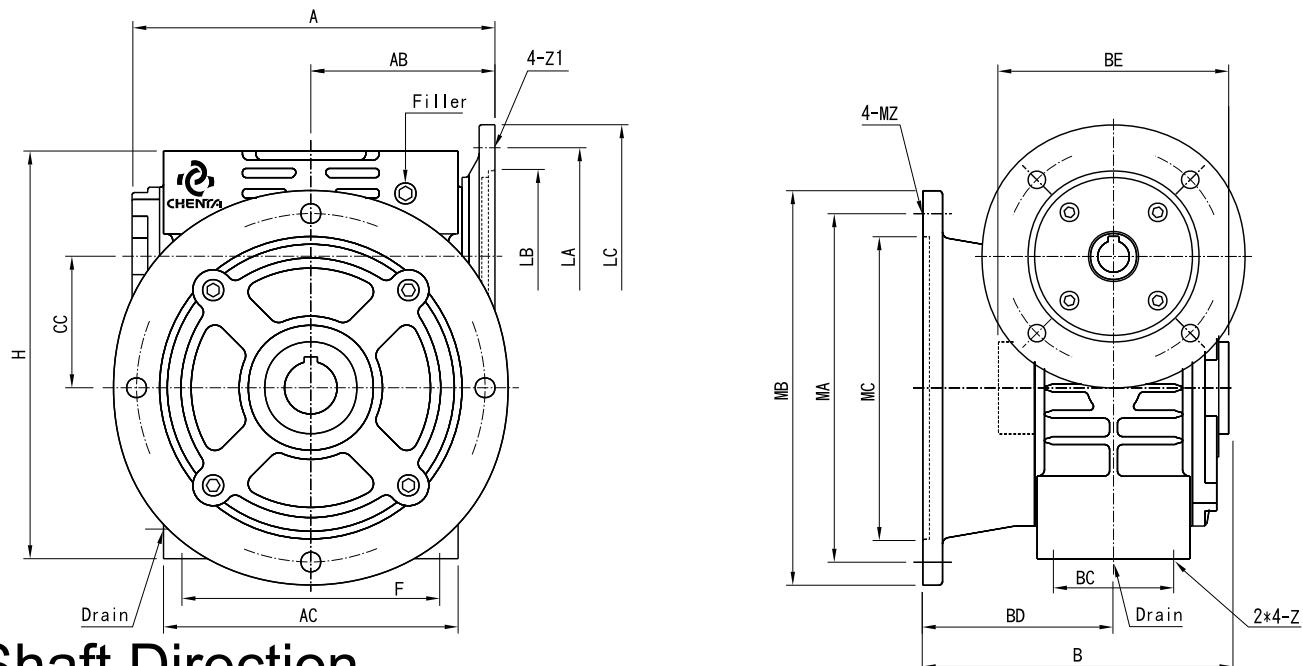
Unit:mm

| Size | Ratio | A | AB | AC | BC | B | BB | F | BD | BE | CC | H | MA | MB | MC | MZ | Z |
|------|-------|-----|-----|-----|-----|-------|------|-----|-------|-----|-----|-----|-----|-----|-----|----|-----|
| 50 | 1/10 | 181 | 107 | 115 | 50 | 136 | 55 | 90 | 81 | 110 | 50 | 150 | 150 | 180 | 130 | 11 | M8 |
| 60 | 1/15 | 204 | 124 | 127 | 54 | 154.5 | 58.5 | 100 | 96 | 117 | 60 | 177 | 150 | 180 | 130 | 11 | M10 |
| 70 | 1/20 | 234 | 140 | 154 | 66 | 180 | 65 | 125 | 115 | 130 | 70 | 205 | 215 | 250 | 180 | 15 | M10 |
| 80 | 1/30 | 265 | 160 | 175 | 75 | 177 | 72 | 145 | 105 | 144 | 80 | 232 | 215 | 250 | 180 | 14 | M10 |
| 100 | 1/40 | 325 | 192 | 224 | 91 | 232 | 87.5 | 187 | 144.5 | 175 | 100 | 310 | 265 | 300 | 230 | 15 | M12 |
| 120 | 1/50 | 389 | 230 | 264 | 100 | 245 | 100 | 232 | 145 | 200 | 120 | 370 | 300 | 350 | 250 | 19 | M14 |
| 135 | 1/60 | 435 | 260 | 300 | 111 | 290 | 115 | 264 | 175 | 230 | 135 | 425 | 350 | 400 | 300 | 19 | M16 |

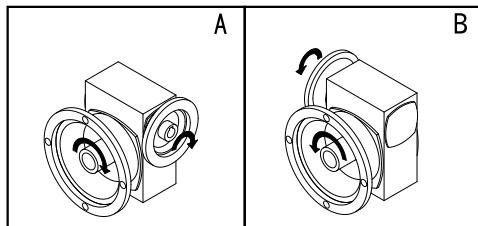
| Size | Input Shaft | | | Output Bore | | Oil (l) | Weight kg |
|------|-------------|----|---------|-------------|-----------|---------|-----------|
| | HS | U | T * V | S | W * Y | | |
| 50 | 30 | 12 | 4 * 2.5 | 20 | 5 * 22.3 | 0.26 | 8 |
| 60 | 40 | 15 | 5 * 3 | 25 | 7 * 28 | 0.4 | 11 |
| 70 | 40 | 18 | 5 * 3 | 30 | 8 * 33.5 | 0.7 | 16 |
| 80 | 50 | 22 | 7 * 4 | 35 | 10 * 38.5 | 1.15 | 21 |
| 100 | 50 | 25 | 7 * 4 | 40 | 12 * 43.5 | 2.2 | 40 |
| 120 | 65 | 30 | 7 * 4 | 45 | 12 * 48.5 | 4.8 | 52 |
| 135 | 75 | 35 | 10 * 5 | 60 | 15 * 65 | 6.3 | 75 |



OUTPUT-BORE VIEW



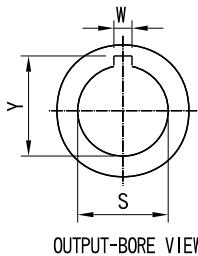
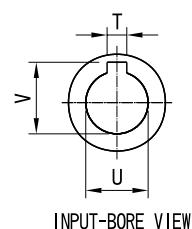
Shaft Direction



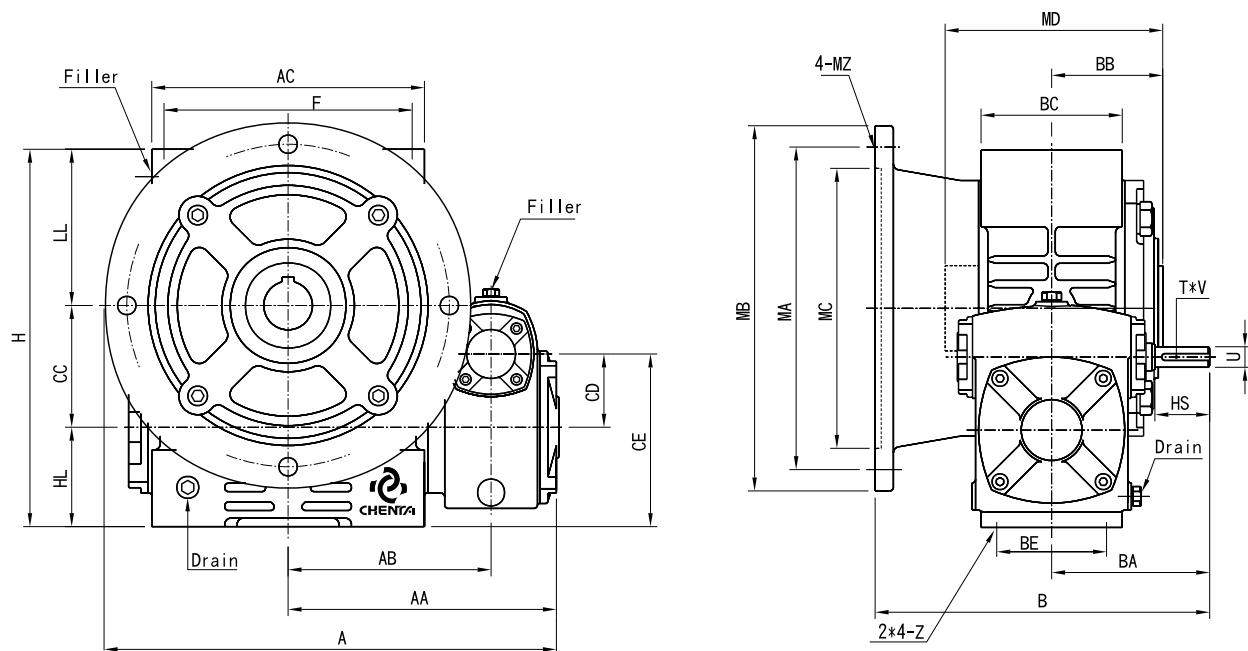
Unit:mm

| Size | Ratio | A | AB | AC | B | F | BD | BE | CC | BC | H | MA | MB | MC | MZ | Z | Input Bore | | |
|------|-------|------------|------------|-----|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|----|-----|------------|---------|--------------|
| | | | | | | | | | | | | | | | | | U | T | V |
| 50 | 1/10 | 168 | 97 | 115 | 136 | 90 | 81 | 110 | 50 | 50 | 150 | 150 | 180 | 130 | 11 | M8 | 11 14 | 4 5 | 12.8 16.3 |
| 60 | 1/15 | 177 | 97 | 127 | 154.5 | 100 | 96 | 117 | 60 | 54 | 177 | 150 | 180 | 130 | 11 | M10 | 11 14 | 4 5 | 12.8 16.3 |
| 70 | 1/20 | 213 223 | 118 120 | 154 | 180 | 125 | 115 | 130 | 70 | 66 | 205 | 215 | 250 | 180 | 15 | M10 | 14 19 | 5 6 | 16.3 21.8 |
| 80 | 1/30 | 235 | 130 | 175 | 177 | 145 | 105 | 144 | 80 | 75 | 232 | 215 | 250 | 180 | 14 | M10 | 19 24 | 6 8 | 21.8 27.3 |
| 100 | 1/40 | 273 275 | 140 142 | 224 | 232 | 187 | 144.5 | 175 | 100 | 91 | 310 | 265 | 300 | 230 | 15 | M12 | 24 28 | 8 | 27.3 31.3 |
| 120 | 1/50 | 339 | 180 | 264 | 245 | 232 | 145 | 200 | 120 | 100 | 370 | 300 | 350 | 250 | 19 | M14 | 28 | 8 | 31.3 |
| 135 | 1/60 | 370 393 | 195 218 | 300 | 290 | 264 | 175 | 230 | 135 | 111 | 425 | 350 | 400 | 300 | 19 | M16 | 28 38 | 8 10 | 31.3 41.5 |

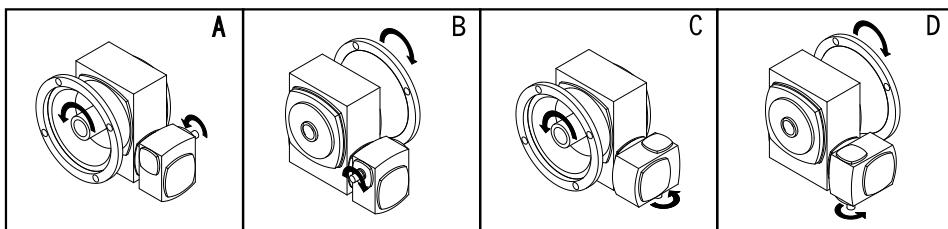
| Size | Output Bore | | | Flange | | | | | HP | Oil (l) | Weight (kg) |
|------|-------------|----|------|------------|------------|------------|----|------------|------------|---------|-------------|
| | S | W | Y | LA | LB | LC | LE | Z1 | | | |
| 50 | 20 | 5 | 22.3 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.26 | 9 |
| 60 | 25 | 7 | 28 | 130 | 110 | 160 | 4 | M8 | 1/4 1/2 | 0.4 | 12 |
| 70 | 30 | 8 | 33.5 | 130 165 | 110 130 | 160 200 | 4 | M8 M10 | 1/2 1 | 0.7 | 18 |
| 80 | 35 | 10 | 38.5 | 165 | 130 | 200 | 4 | M10 | 1 2 | 1.15 | 24 |
| 100 | 40 | 12 | 43.5 | 165 215 | 130 180 | 200 250 | 5 | M10 M12 | 2 3 | 2.2 | 43 |
| 120 | 45 | 12 | 48.5 | 215 | 180 | 250 | 5 | M12 | 3 5 | 4.8 | 56 |
| 135 | 60 | 15 | 65 | 215 265 | 180 230 | 250 300 | 5 | M12 Ø15 | 5 7.5 | 6.3 | 79 |



Size : 40/70~80/135



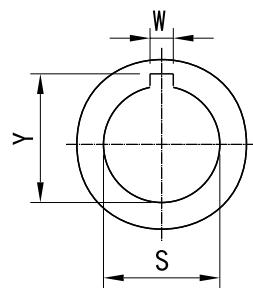
Shaft Direction



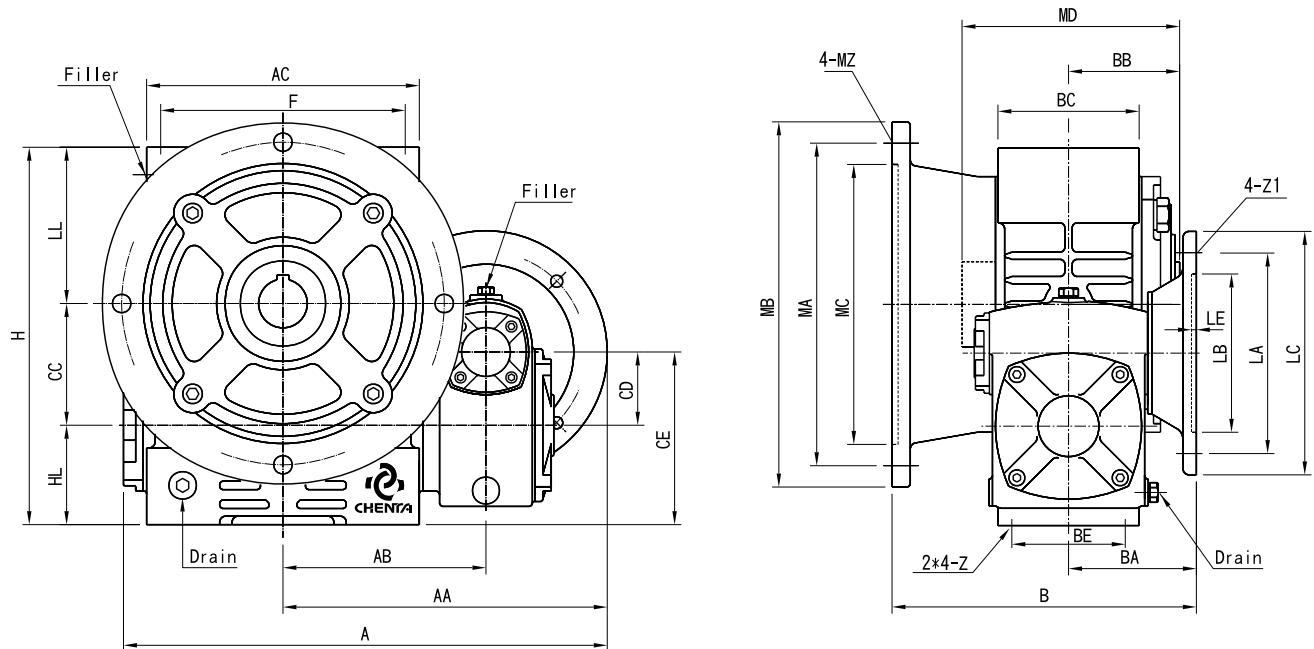
Unit:mm

| Size | Ratio | A | AA | AB | AC | F | B | BA | BB | BC | BE | CC | CD | CE | H | HL | LL | Z |
|--------|-----------------|-----|-----|-----|-----|-----|-------|-----|------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 40-70 | 1/100 1/3600 | 270 | 175 | 131 | 154 | 125 | 198 | 83 | 65 | 88 | 66 | 70 | 40 | 90 | 205 | 50 | 85 | M10 |
| 50-80 | | 288 | 184 | 132 | 175 | 145 | 212 | 107 | 72 | 97 | 75 | 80 | 50 | 110 | 232 | 60 | 92 | M10 |
| 60-100 | | 352 | 219 | 161 | 224 | 187 | 268.5 | 124 | 87.5 | 116 | 91 | 100 | 60 | 140 | 310 | 80 | 130 | M12 |
| 70-120 | | 412 | 258 | 192 | 264 | 232 | 285 | 140 | 100 | 136 | 100 | 120 | 70 | 165 | 370 | 95 | 155 | M14 |
| 80-135 | | 462 | 293 | 211 | 300 | 264 | 335 | 160 | 115 | 144 | 111 | 135 | 80 | 185 | 425 | 105 | 185 | M16 |

| Size | MB | MA | MC | MD | MZ | Input Shaft | | | Output Bore | | | Oil (l) | Weight (kg) |
|--------|-----|-----|-----|-----|----|-------------|----|---------|-------------|----|------|---------|-------------|
| | | | | | | HS | U | T*V | S | W | Y | | |
| 40-70 | 250 | 215 | 180 | 130 | 15 | 25 | 12 | 4 * 2.5 | 30 | 8 | 33.5 | 0.65 | 20 |
| 50-80 | 250 | 215 | 180 | 144 | 14 | 30 | 12 | 4 * 2.5 | 35 | 10 | 38.5 | 1.05 | 27 |
| 60-100 | 300 | 265 | 230 | 175 | 15 | 40 | 15 | 5 * 3 | 40 | 12 | 43.5 | 1.7 | 46 |
| 70-120 | 350 | 300 | 250 | 200 | 19 | 40 | 18 | 5 * 3 | 45 | 12 | 48.5 | 3 | 77 |
| 80-135 | 400 | 350 | 300 | 230 | 19 | 50 | 22 | 7 * 4 | 60 | 15 | 65 | 4.75 | 89 |

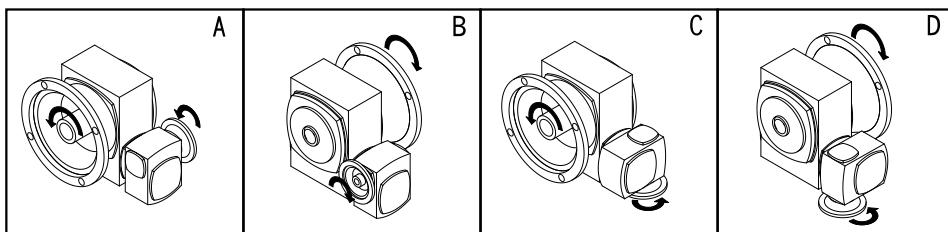


OUTPUT-BORE VIEW



68

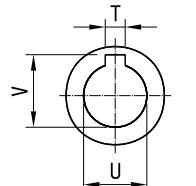
Shaft Direction



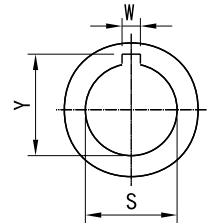
Unit:mm

| Size | Ratio | A | AA | AB | AC | F | B | BA | BB | BC | BE | CC | CD | CE | H | HL | LL | Z | MB | MA | MC | MD | MZ | |
|--------|-------|-----|-----|-----|-----|-----|-------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 40-70 | 1/100 | 306 | 211 | 131 | 154 | 125 | 200 | 85 | 65 | 88 | 66 | 70 | 40 | 90 | 205 | 50 | 85 | M10 | 250 | 215 | 180 | 130 | 15 | |
| 50-80 | | 316 | 212 | 132 | 175 | 145 | 202 | 97 | 72 | 97 | 75 | 80 | 50 | 110 | 232 | 60 | 92 | M10 | 250 | 215 | 180 | 144 | 15 | |
| 60-100 | | 374 | 241 | 161 | 224 | 187 | 241.5 | 97 | 87.5 | 116 | 91 | 100 | 60 | 140 | 310 | 80 | 130 | M12 | 300 | 265 | 230 | 175 | 15 | |
| 70-120 | | 431 | 272 | 192 | 264 | 232 | 263 | 118 | 120 | 100 | 136 | 100 | 120 | 70 | 165 | 370 | 95 | 155 | M14 | 350 | 300 | 250 | 200 | 19 |
| 80-135 | | 481 | 311 | 211 | 300 | 264 | 305 | 130 | 115 | 144 | 111 | 135 | 80 | 185 | 425 | 105 | 185 | M16 | 400 | 350 | 300 | 230 | 19 | |

| Size | Input Bore | | | Output Bore | | | Flange | | | | HP | Oil (l) | Weight (kg) | |
|--------|------------|---|------|-------------|----|------|--------|-----|-----|----|-----|---------|-------------|----|
| | U | T | V | S | W | Y | LA | LB | LC | LE | Z1 | | | |
| 40-70 | 11 | 4 | 12.8 | 30 | 8 | 33.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP | 0.65 | 20 |
| 50-80 | 11 | 4 | 12.8 | 35 | 10 | 38.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP | 1.05 | 27 |
| 60-100 | 11 | 4 | 12.8 | 40 | 12 | 43.5 | 130 | 110 | 160 | 4 | M8 | 1/4HP | 1.7 | 47 |
| 70-120 | 14 | 5 | 16.3 | 45 | 12 | 48.5 | 130 | 110 | 160 | 5 | M8 | 1/2HP | 3 | 78 |
| 80-135 | 19 | 6 | 21.8 | 60 | 15 | 65 | 165 | 130 | 200 | 5 | M10 | 1HP | 4.75 | 92 |



INPUT-BORE VIEW



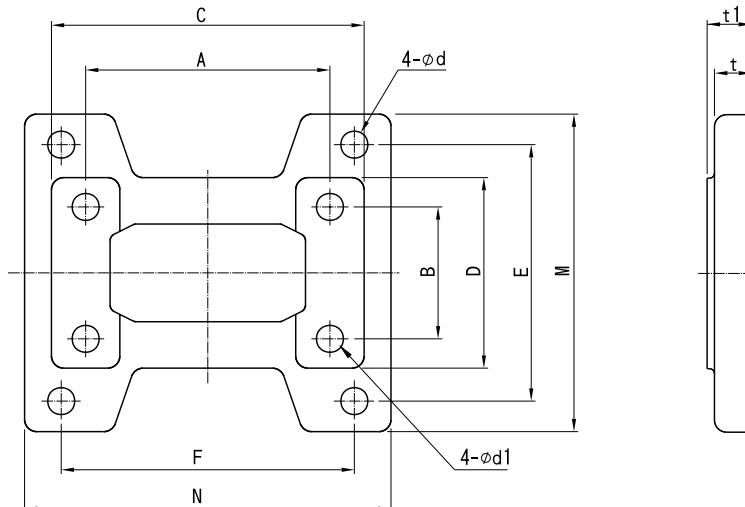
OUTPUT-BORE VIEW



萬向型附加腳座

Model : MOUNTING BASE 成大齒輪減速機

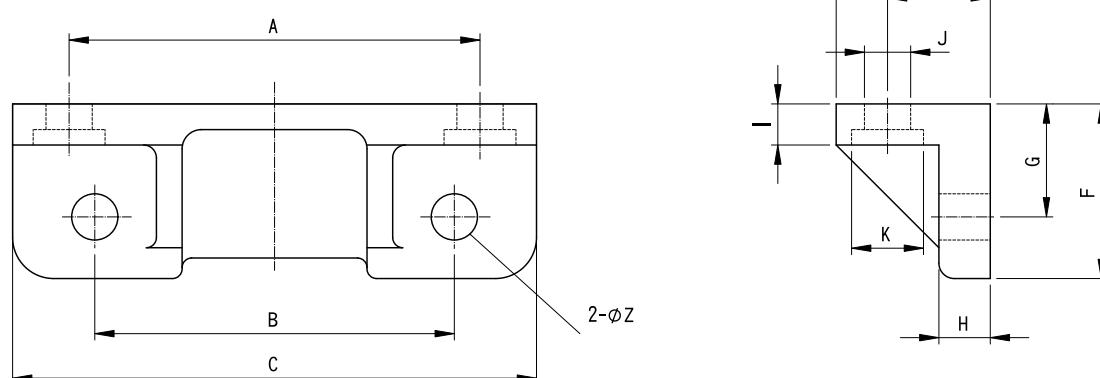
Type:H-Base (H 型平底腳座)



Unit:mm

| Size | A | B | C | D | E | F | M | N | t | t_1 | d | d_1 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-------|----|-------|
| 40 | 80 | 54 | 102 | 68 | 90 | 100 | 110 | 125 | 11 | 13 | 10 | 8.7 |
| 50 | 90 | 50 | 115 | 68 | 95 | 110 | 120 | 140 | 13 | 15 | 11 | 9 |
| 60 | 100 | 54 | 127 | 78 | 105 | 120 | 130 | 150 | 15 | 18 | 11 | 11 |
| 70 | 125 | 66 | 156 | 92 | 115 | 150 | 150 | 190 | 18 | 20 | 15 | 11 |
| 80 | 145 | 75 | 174 | 100 | 135 | 180 | 170 | 220 | 18 | 20 | 15 | 11 |
| 100 | 187 | 91 | 224 | 120 | 155 | 220 | 190 | 270 | 22 | 25 | 15 | 14 |
| 120 | 232 | 100 | 264 | 140 | 180 | 260 | 230 | 320 | 26 | 30 | 18 | 17 |
| 135 | 264 | 111 | 294 | 154 | 200 | 290 | 250 | 350 | 26 | 30 | 18 | 17 |

Type:L-Base (L 型直角腳座)



Unit:mm

| Size | A | B | C | D | E | F | G | H | I | J | K | Z |
|------|-----|-----|-----|----|------|------|----|----|----|----|----|----|
| 40 | 80 | 80 | 102 | 38 | 30 | 34 | 22 | 10 | 8 | 8 | 14 | 9 |
| 50 | 90 | 90 | 115 | 46 | 32 | 40 | 25 | 14 | 9 | 9 | 14 | 11 |
| 60 | 100 | 100 | 127 | 50 | 33.5 | 45 | 30 | 15 | 12 | 11 | 17 | 11 |
| 70 | 125 | 120 | 155 | 50 | 34 | 50 | 35 | 18 | 14 | 11 | 17 | 15 |
| 80 | 145 | 140 | 175 | 54 | 36.5 | 60 | 40 | 20 | 18 | 11 | 17 | 15 |
| 100 | 187 | 190 | 224 | 70 | 47.5 | 60 | 40 | 20 | 18 | 14 | 20 | 15 |
| 120 | 232 | 220 | 264 | 80 | 52 | 62.5 | 40 | 24 | 18 | 16 | 23 | 18 |
| 135 | 264 | 260 | 300 | 86 | 61.5 | 68 | 45 | 28 | 24 | 18 | 26 | 18 |

蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction

Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 40 | 1/10 | 1. Input HP (hp) | 0.83 | 0.77 | 0.67 | 0.56 | 0.43 | 0.23 |
| | | 2. Output HP (hp) | 0.65 | 0.6 | 0.51 | 0.43 | 0.32 | 0.16 |
| | | 3. Output Torque (kg-m) | 2.6 | 2.8 | 3.1 | 3.4 | 3.8 | 3.8 |
| | | 4. Output OHL (kg) | 70 | 70 | 70 | 70 | 70 | 70 |
| | 1/15 | 1. Input HP (hp) | 0.41 | 0.37 | 0.33 | 0.27 | 0.2 | 0.11 |
| | | 2. Output HP (hp) | 0.28 | 0.25 | 0.20 | 0.17 | 0.11 | 0.04 |
| | | 3. Output Torque (kg-m) | 2.3 | 2.5 | 2.8 | 3.2 | 3.5 | 3.8 |
| | | 4. Output OHL (kg) | 70 | 70 | 70 | 70 | 70 | 70 |
| | 1/20 | 1. Input HP (hp) | 0.39 | 0.35 | 0.31 | 0.27 | 0.2 | 0.12 |
| | | 2. Output HP (hp) | 0.27 | 0.24 | 0.21 | 0.17 | 0.12 | 0.08 |
| | | 3. Output Torque (kg-m) | 2.1 | 2.3 | 2.5 | 2.8 | 3.1 | 3.7 |
| | | 4. Output OHL (kg) | 70 | 70 | 70 | 70 | 70 | 70 |
| | 1/30 | 1. Input HP (hp) | 0.43 | 0.4 | 0.34 | 0.27 | 0.2 | 0.09 |
| | | 2. Output HP (hp) | 0.28 | 0.25 | 0.21 | 0.16 | 0.11 | 0.04 |
| | | 3. Output Torque (kg-m) | 3.3 | 3.5 | 3.8 | 3.8 | 3.8 | 3.8 |
| | | 4. Output OHL (kg) | 70 | 70 | 70 | 70 | 70 | 70 |
| | 1/40 | 1. Input HP (hp) | 0.27 | 0.24 | 0.21 | 0.19 | 0.15 | 0.08 |
| | | 2. Output HP (hp) | 0.15 | 0.15 | 0.12 | 0.11 | 0.07 | 0.04 |
| | | 3. Output Torque (kg-m) | 2.5 | 2.6 | 2.8 | 3.1 | 3.4 | 3.8 |
| | | 4. Output OHL (kg) | 70 | 70 | 70 | 70 | 70 | 70 |
| | 1/50 | 1. Input HP (hp) | 0.25 | 0.23 | 0.2 | 0.17 | 0.12 | 0.07 |
| | | 2. Output HP (hp) | 0.15 | 0.12 | 0.11 | 0.11 | 0.05 | 0.03 |
| | | 3. Output Torque (kg-m) | 2.8 | 3.0 | 3.2 | 3.5 | 3.8 | 3.8 |
| | | 4. Output OHL (kg) | 70 | 70 | 70 | 70 | 70 | 70 |
| | 1/60 | 1. Input HP (hp) | 0.2 | 0.19 | 0.16 | 0.15 | 0.11 | 0.07 |
| | | 2. Output HP (hp) | 0.11 | 0.09 | 0.08 | 0.07 | 0.04 | 0.03 |
| | | 3. Output Torque (kg-m) | 2.4 | 2.6 | 2.7 | 3.0 | 3.2 | 3.8 |
| | | 4. Output OHL (kg) | 70 | 70 | 70 | 70 | 70 | 70 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 50 | 1/10 | 1. Input HP (hp) | 1.23 | 1.16 | 1.01 | 0.86 | 0.58 | 0.31 |
| | | 2. Output HP (hp) | 0.99 | 0.93 | 0.80 | 0.67 | 0.45 | 0.23 |
| | | 3. Output Torque (kg-m) | 3.95 | 4.47 | 4.80 | 5.33 | 5.43 | 5.43 |
| | | 4. Output OHL (kg) | 90 | 100 | 110 | 120 | 140 | 200 |
| | 1/15 | 1. Input HP (hp) | 0.95 | 0.85 | 0.74 | 0.61 | 0.41 | 0.22 |
| | | 2. Output HP (hp) | 0.73 | 0.65 | 0.56 | 0.45 | 0.30 | 0.15 |
| | | 3. Output Torque (kg-m) | 4.38 | 4.64 | 5.06 | 5.43 | 5.43 | 5.43 |
| | | 4. Output OHL (kg) | 110 | 120 | 130 | 140 | 160 | 200 |
| | 1/20 | 1. Input HP (hp) | 0.71 | 0.63 | 0.55 | 0.48 | 0.35 | 0.17 |
| | | 2. Output HP (hp) | 0.50 | 0.44 | 0.38 | 0.32 | 0.23 | 0.11 |
| | | 3. Output Torque (kg-m) | 4.00 | 4.25 | 4.58 | 5.07 | 5.43 | 5.43 |
| | | 4. Output OHL (kg) | 130 | 140 | 155 | 170 | 200 | 200 |
| | 1/30 | 1. Input HP (hp) | 0.62 | 0.55 | 0.45 | 0.36 | 0.25 | 0.12 |
| | | 2. Output HP (hp) | 0.42 | 0.37 | 0.30 | 0.23 | 0.15 | 0.07 |
| | | 3. Output Torque (kg-m) | 5.02 | 5.31 | 5.43 | 5.43 | 5.34 | 5.34 |
| | | 4. Output OHL (kg) | 150 | 170 | 180 | 200 | 200 | 200 |
| | 1/40 | 1. Input HP (hp) | 0.47 | 0.43 | 0.39 | 0.32 | 0.22 | 0.13 |
| | | 2. Output HP (hp) | 0.28 | 0.25 | 0.22 | 0.17 | 0.11 | 0.06 |
| | | 3. Output Torque (kg-m) | 4.53 | 4.82 | 5.41 | 5.43 | 5.43 | 5.43 |
| | | 4. Output OHL (kg) | 170 | 180 | 200 | 200 | 200 | 200 |
| | 1/50 | 1. Input HP (hp) | 0.39 | 0.37 | 0.31 | 0.26 | 0.18 | 0.09 |
| | | 2. Output HP (hp) | 0.23 | 0.21 | 0.17 | 0.14 | 0.09 | 0.04 |
| | | 3. Output Torque (kg-m) | 4.62 | 4.91 | 5.19 | 5.43 | 5.43 | 5.43 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 | 200 | 200 |
| | 1/60 | 1. Input HP (hp) | 0.33 | 0.30 | 0.26 | 0.23 | 0.15 | 0.07 |
| | | 2. Output HP (hp) | 0.18 | 0.16 | 0.13 | 0.11 | 0.07 | 0.03 |
| | | 3. Output Torque (kg-m) | 4.31 | 4.61 | 4.83 | 5.41 | 5.43 | 5.43 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 | 200 | 200 |



蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction

Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 60 | 1/10 | 1. Input HP (hp) | 2.52 | 2.01 | 1.76 | 1.52 | 1.19 | 0.64 |
| | | 2. Output HP (hp) | 1.78 | 1.63 | 1.41 | 1.20 | 0.92 | 0.48 |
| | | 3. Output Torque (kg-m) | 7.09 | 7.82 | 8.45 | 9.62 | 11.0 | 11.6 |
| | | 4. Output OHL (kg) | 90 | 100 | 110 | 120 | 140 | 200 |
| | 1/15 | 1. Input HP (hp) | 1.68 | 1.53 | 1.36 | 1.13 | 0.89 | 0.46 |
| | | 2. Output HP (hp) | 1.32 | 1.18 | 1.04 | 0.85 | 0.65 | 0.32 |
| | | 3. Output Torque (kg-m) | 7.92 | 8.50 | 9.30 | 10.2 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 110 | 120 | 130 | 140 | 160 | 200 |
| | 1/20 | 1. Input HP (hp) | 1.18 | 1.06 | 0.95 | 0.79 | 0.64 | 0.37 |
| | | 2. Output HP (hp) | 0.89 | 0.79 | 0.69 | 0.57 | 0.44 | 0.24 |
| | | 3. Output Torque (kg-m) | 7.09 | 7.58 | 8.20 | 9.00 | 10.4 | 11.6 |
| | | 4. Output OHL (kg) | 130 | 140 | 155 | 170 | 200 | 200 |
| 70 | 1/30 | 1. Input HP (hp) | 1.07 | 0.98 | 0.87 | 0.74 | 0.52 | 0.28 |
| | | 2. Output HP (hp) | 0.75 | 0.67 | 0.58 | 0.48 | 0.32 | 0.16 |
| | | 3. Output Torque (kg-m) | 9.0 | 9.60 | 10.3 | 11.5 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 150 | 170 | 180 | 200 | 200 | 200 |
| | 1/40 | 1. Input HP (hp) | 0.78 | 0.71 | 0.64 | 0.54 | 0.43 | 0.24 |
| | | 2. Output HP (hp) | 0.51 | 0.45 | 0.39 | 0.32 | 0.24 | 0.12 |
| | | 3. Output Torque (kg-m) | 8.06 | 8.60 | 9.20 | 10.3 | 11.5 | 11.6 |
| | | 4. Output OHL (kg) | 170 | 180 | 200 | 200 | 200 | 200 |
| | 1/50 | 1. Input HP (hp) | 0.61 | 0.55 | 0.51 | 0.43 | 0.35 | 0.20 |
| | | 2. Output HP (hp) | 0.36 | 0.32 | 0.28 | 0.23 | 0.17 | 0.09 |
| | | 3. Output Torque (kg-m) | 7.10 | 7.60 | 8.30 | 9.10 | 10.2 | 11.6 |
| | | 4. Output OHL (kg) | 180 | 200 | 200 | 200 | 200 | 200 |
| | 1/60 | 1. Input HP (hp) | 0.51 | 0.47 | 0.42 | 0.35 | 0.29 | 0.19 |
| | | 2. Output HP (hp) | 0.29 | 0.26 | 0.22 | 0.18 | 0.14 | 0.08 |
| | | 3. Output Torque (kg-m) | 6.90 | 7.40 | 8.00 | 8.70 | 9.70 | 11.3 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 | 200 | 200 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 70 | 1/10 | 1. Input HP (hp) | 3.27 | 3.01 | 2.68 | 2.24 | 1.75 | 1.15 |
| | | 2. Output HP (hp) | 2.69 | 2.45 | 2.16 | 1.79 | 1.36 | 0.86 |
| | | 3. Output Torque (kg-m) | 10.7 | 11.7 | 12.9 | 14.3 | 16.3 | 20.7 |
| | | 4. Output OHL (kg) | 140 | 150 | 160 | 170 | 200 | 300 |
| | 1/15 | 1. Input HP (hp) | 2.60 | 2.37 | 2.04 | 1.72 | 1.36 | 0.86 |
| | | 2. Output HP (hp) | 2.04 | 1.84 | 1.57 | 1.30 | 1.00 | 0.61 |
| | | 3. Output Torque (kg-m) | 12.2 | 13.2 | 14.1 | 15.6 | 18.0 | 21.9 |
| | | 4. Output OHL (kg) | 170 | 180 | 200 | 220 | 250 | 300 |
| | 1/20 | 1. Input HP (hp) | 1.83 | 1.66 | 1.44 | 1.17 | 0.86 | 0.50 |
| | | 2. Output HP (hp) | 1.42 | 1.27 | 1.09 | 0.87 | 0.62 | 0.34 |
| | | 3. Output Torque (kg-m) | 11.3 | 12.1 | 13.0 | 13.9 | 14.7 | 16.0 |
| | | 4. Output OHL (kg) | 210 | 230 | 250 | 270 | 300 | 300 |
| | 1/30 | 1. Input HP (hp) | 1.56 | 1.41 | 1.26 | 1.06 | 0.85 | 0.51 |
| | | 2. Output HP (hp) | 1.12 | 0.98 | 0.85 | 0.71 | 0.53 | 0.29 |
| | | 3. Output Torque (kg-m) | 13.4 | 14.2 | 15.2 | 17.0 | 19.0 | 20.5 |
| | | 4. Output OHL (kg) | 240 | 260 | 280 | 300 | 300 | 300 |
| | 1/40 | 1. Input HP (hp) | 1.18 | 1.07 | 0.94 | 0.77 | 0.56 | 0.33 |
| | | 2. Output HP (hp) | 0.81 | 0.72 | 0.62 | 0.49 | 0.34 | 0.18 |
| | | 3. Output Torque (kg-m) | 12.9 | 13.7 | 14.8 | 15.5 | 16.2 | 17.4 |
| | | 4. Output OHL (kg) | 270 | 280 | 300 | 300 | 300 | 300 |
| | 1/50 | 1. Input HP (hp) | 0.87 | 0.79 | 0.71 | 0.61 | 0.50 | 0.30 |
| | | 2. Output HP (hp) | 0.52 | 0.46 | 0.40 | 0.33 | 0.25 | 0.15 |
| | | 3. Output Torque (kg-m) | 10.4 | 11.0 | 11.9 | 13.1 | 14.8 | 17.4 |
| | | 4. Output OHL (kg) | 280 | 300 | 300 | 300 | 300 | 300 |
| | 1/60 | 1. Input HP (hp) | 0.75 | 0.68 | 0.63 | 0.51 | 0.43 | 0.28 |
| | | 2. Output HP (hp) | 0.44 | 0.39 | 0.34 | 0.27 | 0.21 | 0.12 |
| | | 3. Output Torque (kg-m) | 10.4 | 11.1 | 12.0 | 13.1 | 14.7 | 17.1 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 | 300 | 300 |

蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction

Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day



| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 80 | 1/10 | 1. Input HP (hp) | 4.50 | 4.36 | 3.81 | 3.20 | 2.57 | 1.56 |
| | | 2. Output HP (hp) | 3.72 | 3.55 | 3.08 | 2.56 | 2.01 | 1.18 |
| | | 3. Output Torque (kg-m) | 14.8 | 17.0 | 18.4 | 20.5 | 24.0 | 28.3 |
| | | 4. Output OHL (kg) | 160 | 180 | 200 | 230 | 270 | 400 |
| | 1/15 | 1. Input HP (hp) | 3.60 | 3.27 | 2.88 | 2.41 | 1.97 | 1.26 |
| | | 2. Output HP (hp) | 2.84 | 2.56 | 2.21 | 1.83 | 1.46 | 0.87 |
| | | 3. Output Torque (kg-m) | 17.0 | 18.4 | 19.8 | 21.9 | 26.2 | 31.2 |
| | | 4. Output OHL (kg) | 230 | 240 | 260 | 280 | 330 | 400 |
| | 1/20 | 1. Input HP (hp) | 2.48 | 2.25 | 1.97 | 1.65 | 1.32 | 0.87 |
| | | 2. Output HP (hp) | 1.91 | 1.71 | 1.47 | 1.21 | 0.93 | 0.57 |
| | | 3. Output Torque (kg-m) | 15.2 | 16.3 | 17.5 | 19.2 | 22.3 | 27.3 |
| | | 4. Output OHL (kg) | 270 | 280 | 320 | 360 | 400 | 400 |
| | 1/30 | 1. Input HP (hp) | 2.09 | 1.90 | 1.65 | 1.43 | 1.14 | 0.75 |
| | | 2. Output HP (hp) | 1.51 | 1.34 | 1.14 | 0.96 | 0.73 | 0.44 |
| | | 3. Output Torque (kg-m) | 18.1 | 19.2 | 20.5 | 22.9 | 26.2 | 31.4 |
| | | 4. Output OHL (kg) | 320 | 340 | 360 | 400 | 400 | 400 |
| | 1/40 | 1. Input HP (hp) | 1.60 | 1.47 | 1.29 | 1.10 | 0.86 | 0.54 |
| | | 2. Output HP (hp) | 1.08 | 0.96 | 0.88 | 0.68 | 0.52 | 0.28 |
| | | 3. Output Torque (kg-m) | 17.2 | 18.3 | 19.7 | 21.8 | 24.7 | 26.4 |
| | | 4. Output OHL (kg) | 340 | 360 | 400 | 400 | 400 | 400 |
| | 1/50 | 1. Input HP (hp) | 1.28 | 1.17 | 1.05 | 0.88 | 0.72 | 0.45 |
| | | 2. Output HP (hp) | 0.84 | 0.75 | 0.65 | 0.53 | 0.40 | 0.23 |
| | | 3. Output Torque (kg-m) | 16.8 | 17.8 | 19.3 | 21.2 | 23.9 | 28.0 |
| | | 4. Output OHL (kg) | 360 | 400 | 400 | 400 | 400 | 400 |
| | 1/60 | 1. Input HP (hp) | 1.03 | 0.95 | 0.85 | 0.73 | 0.58 | 0.39 |
| | | 2. Output HP (hp) | 0.62 | 0.55 | 0.48 | 0.39 | 0.29 | 0.17 |
| | | 3. Output Torque (kg-m) | 14.9 | 15.7 | 17.2 | 18.7 | 21.0 | 24.6 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 | 400 | 400 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 100 | 1/10 | 1. Input HP (hp) | 6.50 | 5.98 | 5.26 | 4.49 | 3.51 | 2.27 |
| | | 2. Output HP (hp) | 5.73 | 4.90 | 4.30 | 3.64 | 2.78 | 1.74 |
| | | 3. Output Torque (kg-m) | 21.4 | 23.4 | 25.7 | 29.0 | 33.2 | 41.5 |
| | | 4. Output OHL (kg) | 190 | 200 | 220 | 240 | 300 | 450 |
| | 1/15 | 1. Input HP (hp) | 5.14 | 4.49 | 4.00 | 3.36 | 2.65 | 1.70 |
| | | 2. Output HP (hp) | 4.10 | 3.54 | 3.13 | 2.59 | 2.00 | 1.22 |
| | | 3. Output Torque (kg-m) | 23.9 | 25.4 | 28.0 | 31.0 | 35.8 | 44.0 |
| | | 4. Output OHL (kg) | 200 | 250 | 270 | 300 | 340 | 450 |
| | 1/20 | 1. Input HP (hp) | 4.42 | 3.99 | 3.48 | 2.92 | 2.31 | 1.51 |
| | | 2. Output HP (hp) | 3.35 | 3.14 | 2.71 | 2.23 | 1.73 | 1.06 |
| | | 3. Output Torque (kg-m) | 28.0 | 30.0 | 32.3 | 35.5 | 41.3 | 50.0 |
| | | 4. Output OHL (kg) | 250 | 270 | 300 | 340 | 450 | 450 |
| | 1/30 | 1. Input HP (hp) | 3.69 | 3.33 | 2.93 | 2.47 | 1.97 | 1.15 |
| | | 2. Output HP (hp) | 2.70 | 2.40 | 2.06 | 1.71 | 1.31 | 0.70 |
| | | 3. Output Torque (kg-m) | 32.2 | 34.4 | 36.9 | 40.8 | 46.8 | 50.0 |
| | | 4. Output OHL (kg) | 320 | 340 | 370 | 450 | 450 | 450 |
| | 1/40 | 1. Input HP (hp) | 2.78 | 2.52 | 2.20 | 1.88 | 1.48 | 0.89 |
| | | 2. Output HP (hp) | 2.00 | 1.77 | 1.52 | 1.26 | 0.96 | 0.52 |
| | | 3. Output Torque (kg-m) | 31.8 | 33.8 | 36.3 | 40.2 | 45.7 | 50.0 |
| | | 4. Output OHL (kg) | 350 | 380 | 450 | 450 | 450 | 450 |
| | 1/50 | 1. Input HP (hp) | 2.29 | 2.06 | 1.84 | 1.55 | 1.23 | 0.76 |
| | | 2. Output HP (hp) | 1.59 | 1.40 | 1.22 | 1.00 | 0.75 | 0.42 |
| | | 3. Output Torque (kg-m) | 31.6 | 33.4 | 36.5 | 40.0 | 45.0 | 50.0 |
| | | 4. Output OHL (kg) | 390 | 450 | 450 | 450 | 450 | 450 |
| | 1/60 | 1. Input HP (hp) | 1.87 | 1.70 | 1.53 | 1.28 | 1.02 | 0.65 |
| | | 2. Output HP (hp) | 1.26 | 1.12 | 0.97 | 0.80 | 0.59 | 0.34 |
| | | 3. Output Torque (kg-m) | 30.0 | 32.0 | 34.6 | 38.0 | 42.4 | 49.3 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 | 450 | 450 |

蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction

Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 120 | 1/10 | 1. Input HP (hp) | 10.7 | 10.1 | 8.58 | 7.40 | 5.75 | 3.74 |
| | | 2. Output HP (hp) | 8.89 | 8.35 | 7.03 | 6.01 | 4.60 | 2.89 |
| | | 3. Output Torque (kg-m) | 35.4 | 39.9 | 42.0 | 47.9 | 55.0 | 69.1 |
| | | 4. Output OHL (kg) | 250 | 260 | 280 | 300 | 350 | 520 |
| | 1/15 | 1. Input HP (hp) | 8.34 | 7.46 | 6.65 | 5.52 | 4.55 | 2.85 |
| | | 2. Output HP (hp) | 6.68 | 5.94 | 5.25 | 4.30 | 3.47 | 2.08 |
| | | 3. Output Torque (kg-m) | 39.9 | 42.6 | 47.0 | 51.4 | 62.1 | 74.5 |
| | | 4. Output OHL (kg) | 320 | 340 | 360 | 390 | 440 | 520 |
| | 1/20 | 1. Input HP (hp) | 6.85 | 6.31 | 5.53 | 4.68 | 3.70 | 1.95 |
| | | 2. Output HP (hp) | 5.40 | 4.92 | 4.26 | 3.53 | 2.71 | 1.68 |
| | | 3. Output Torque (kg-m) | 43.0 | 47.0 | 50.9 | 56.2 | 64.6 | 80.0 |
| | | 4. Output OHL (kg) | 370 | 390 | 420 | 460 | 520 | 520 |
| 135 | 1/30 | 1. Input HP (hp) | 6.27 | 5.68 | 5.00 | 4.18 | 3.39 | 1.89 |
| | | 2. Output HP (hp) | 4.64 | 4.15 | 3.59 | 2.92 | 2.27 | 1.17 |
| | | 3. Output Torque (kg-m) | 55.4 | 59.4 | 64.3 | 69.8 | 81.4 | 84.0 |
| | | 4. Output OHL (kg) | 450 | 470 | 500 | 520 | 520 | 520 |
| | 1/40 | 1. Input HP (hp) | 4.48 | 4.07 | 3.56 | 3.03 | 2.44 | 1.57 |
| | | 2. Output HP (hp) | 3.13 | 2.79 | 2.39 | 1.97 | 1.51 | 0.88 |
| | | 3. Output Torque (kg-m) | 49.8 | 53.2 | 57.1 | 62.8 | 72.2 | 84.0 |
| | | 4. Output OHL (kg) | 500 | 500 | 520 | 520 | 520 | 520 |
| | 1/50 | 1. Input HP (hp) | 3.64 | 3.28 | 2.90 | 2.47 | 1.91 | 1.19 |
| | | 2. Output HP (hp) | 2.61 | 2.31 | 2.01 | 1.66 | 1.24 | 0.70 |
| | | 3. Output Torque (kg-m) | 52.0 | 55.2 | 60.1 | 66.0 | 74.2 | 84.0 |
| | | 4. Output OHL (kg) | 500 | 520 | 520 | 520 | 520 | 520 |
| | 1/60 | 1. Input HP (hp) | 2.89 | 2.65 | 2.36 | 2.04 | 1.45 | 0.96 |
| | | 2. Output HP (hp) | 1.98 | 1.76 | 1.53 | 1.26 | 0.94 | 0.56 |
| | | 3. Output Torque (kg-m) | 47.4 | 50.4 | 54.9 | 60.1 | 67.6 | 80.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 | 520 | 520 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 135 | 1/10 | 1. Input HP (hp) | 17.7 | 16.5 | 14.2 | 12.0 | 9.54 | 6.20 |
| | | 2. Output HP (hp) | 15.0 | 13.9 | 11.9 | 10.0 | 7.83 | 4.94 |
| | | 3. Output Torque (kg-m) | 59.7 | 66.4 | 71.0 | 79.6 | 93.5 | 117 |
| | | 4. Output OHL (kg) | 330 | 340 | 360 | 440 | 500 | 810 |
| | 1/15 | 1. Input HP (hp) | 14.6 | 13.1 | 11.8 | 9.80 | 9.67 | 4.77 |
| | | 2. Output HP (hp) | 11.9 | 10.6 | 9.45 | 7.75 | 6.95 | 3.56 |
| | | 3. Output Torque (kg-m) | 71.0 | 75.9 | 84.6 | 92.5 | 124 | 127 |
| | | 4. Output OHL (kg) | 430 | 460 | 490 | 540 | 590 | 810 |
| | 1/20 | 1. Input HP (hp) | 10.3 | 9.26 | 8.14 | 6.79 | 5.36 | 3.47 |
| | | 2. Output HP (hp) | 8.39 | 7.47 | 6.48 | 5.33 | 4.13 | 2.54 |
| | | 3. Output Torque (kg-m) | 66.8 | 71.3 | 77.4 | 84.9 | 98.6 | 121 |
| | | 4. Output OHL (kg) | 570 | 600 | 660 | 760 | 810 | 810 |
| | 1/30 | 1. Input HP (hp) | 8.76 | 7.87 | 6.86 | 5.82 | 4.64 | 3.02 |
| | | 2. Output HP (hp) | 6.65 | 5.90 | 5.07 | 4.20 | 3.23 | 1.96 |
| | | 3. Output Torque (kg-m) | 79.4 | 84.5 | 90.8 | 100 | 116 | 140 |
| | | 4. Output OHL (kg) | 680 | 710 | 770 | 810 | 810 | 810 |
| | 1/40 | 1. Input HP (hp) | 6.44 | 5.74 | 5.06 | 4.38 | 3.40 | 2.18 |
| | | 2. Output HP (hp) | 4.79 | 4.22 | 3.64 | 3.06 | 2.31 | 1.36 |
| | | 3. Output Torque (kg-m) | 76.3 | 80.7 | 86.9 | 97.4 | 110 | 130 |
| | | 4. Output OHL (kg) | 710 | 770 | 810 | 810 | 810 | 810 |
| | 1/50 | 1. Input HP (hp) | 4.84 | 4.41 | 3.90 | 3.34 | 2.61 | 1.69 |
| | | 2. Output HP (hp) | 3.52 | 3.16 | 2.73 | 2.26 | 1.71 | 1.01 |
| | | 3. Output Torque (kg-m) | 70 | 75.5 | 81.4 | 90.1 | 102 | 120 |
| | | 4. Output OHL (kg) | 770 | 810 | 810 | 810 | 810 | 810 |
| | 1/60 | 1. Input HP (hp) | 3.65 | 3.58 | 3.16 | 2.74 | 2.11 | 1.37 |
| | | 2. Output HP (hp) | 2.55 | 2.40 | 2.12 | 1.76 | 1.32 | 0.77 |
| | | 3. Output Torque (kg-m) | 60.8 | 70.0 | 76.0 | 83.9 | 94.4 | 111 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 | 810 | 810 |

蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|-------|------|------|------|------|------|
| 155 | 1/10 | 1. Input HP (hp) | 21.7 | 21.7 | 19.0 | 16.2 | 12.7 | 8.41 |
| | | 2. Output HP (hp) | 18.3 | 18.3 | 16.0 | 13.5 | 10.4 | 6.70 |
| | | 3. Output Torque (kg-m) | 73 | 84.4 | 92.3 | 104 | 120 | 154 |
| | | 4. Output OHL (kg) | 750 | 860 | 900 | 990 | 1130 | 1700 |
| | 1/15 | 1. Input HP (hp) | 16.9 | 16.9 | 15.0 | 12.5 | 9.97 | 6.52 |
| | | 2. Output HP (hp) | 13.9 | 13.9 | 12.2 | 10 | 7.80 | 4.90 |
| | | 3. Output Torque (kg-m) | 83 | 96.3 | 105 | 115 | 135 | 169 |
| | | 4. Output OHL (kg) | 900 | 1050 | 1130 | 1270 | 1420 | 1700 |
| | 1/20 | 1. Input HP (hp) | 15.52 | 14.0 | 12.2 | 10.4 | 8.24 | 5.23 |
| | | 2. Output HP (hp) | 12.6 | 11.3 | 9.70 | 8.20 | 6.30 | 3.80 |
| | | 3. Output Torque (kg-m) | 100 | 108 | 116 | 130 | 150 | 181 |
| | | 4. Output OHL (kg) | 1220 | 1280 | 1380 | 1510 | 1700 | 1700 |
| | 1/30 | 1. Input HP (hp) | 12.5 | 11.3 | 9.93 | 8.33 | 6.81 | 4.49 |
| | | 2. Output HP (hp) | 9.50 | 8.50 | 7.30 | 6.00 | 4.70 | 2.90 |
| | | 3. Output Torque (kg-m) | 109 | 118 | 126 | 138 | 162 | 201 |
| | | 4. Output OHL (kg) | 1380 | 1470 | 1570 | 1700 | 1700 | 1700 |
| | 1/40 | 1. Input HP (hp) | 9.65 | 8.81 | 7.70 | 6.35 | 5.31 | 3.44 |
| | | 2. Output HP (hp) | 7.15 | 6.38 | 5.50 | 4.40 | 3.52 | 2.10 |
| | | 3. Output Torque (kg-m) | 114 | 122 | 131 | 140 | 168 | 200 |
| | | 4. Output OHL (kg) | 1490 | 1600 | 1700 | 1700 | 1700 | 1700 |
| | 1/50 | 1. Input HP (hp) | 7.53 | 6.86 | 5.89 | 4.93 | 4.14 | 2.46 |
| | | 2. Output HP (hp) | 5.40 | 4.84 | 4.07 | 3.30 | 2.64 | 1.43 |
| | | 3. Output Torque (kg-m) | 107 | 115 | 121 | 131 | 157 | 170 |
| | | 4. Output OHL (kg) | 1600 | 1700 | 1700 | 1700 | 1700 | 1700 |
| | 1/60 | 1. Input HP (hp) | 6.14 | 5.43 | 4.91 | 4.24 | 3.38 | 2.16 |
| | | 2. Output HP (hp) | 4.29 | 3.74 | 3.30 | 2.75 | 2.09 | 1.21 |
| | | 3. Output Torque (kg-m) | 102 | 107 | 118 | 131 | 149 | 173 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 175 | 1/10 | 1. Input HP (hp) | 30.7 | 30.7 | 27.7 | 23.0 | 18.2 | 11.8 |
| | | 2. Output HP (hp) | 26.1 | 26.1 | 23.4 | 19.3 | 15.0 | 9.50 |
| | | 3. Output Torque (kg-m) | 104 | 120 | 135 | 148 | 173 | 219 |
| | | 4. Output OHL (kg) | 850 | 980 | 1050 | 1130 | 1300 | 2000 |
| | 1/15 | 1. Input HP (hp) | 24.4 | 24.4 | 21.5 | 18.3 | 14.1 | 9.40 |
| | | 2. Output HP (hp) | 20.2 | 20.2 | 17.6 | 14.8 | 11.2 | 7.20 |
| | | 3. Output Torque (kg-m) | 120 | 140 | 152 | 170 | 194 | 249 |
| | | 4. Output OHL (kg) | 1050 | 1210 | 1300 | 1420 | 1630 | 2000 |
| | 1/20 | 1. Input HP (hp) | 21.0 | 19.0 | 16.9 | 14.0 | 10.9 | 7.11 |
| | | 2. Output HP (hp) | 17.2 | 15.4 | 13.5 | 11.1 | 8.40 | 5.25 |
| | | 3. Output Torque (kg-m) | 133 | 143 | 157 | 172 | 195 | 244 |
| | | 4. Output OHL (kg) | 1280 | 1350 | 1450 | 1600 | 2000 | 2000 |
| | 1/30 | 1. Input HP (hp) | 17.7 | 15.8 | 14.2 | 11.9 | 9.54 | 6.11 |
| | | 2. Output HP (hp) | 13.6 | 12.0 | 10.6 | 8.70 | 6.70 | 4.00 |
| | | 3. Output Torque (kg-m) | 157 | 166 | 183 | 200 | 232 | 278 |
| | | 4. Output OHL (kg) | 1420 | 1580 | 1630 | 2000 | 2000 | 2000 |
| | 1/40 | 1. Input HP (hp) | 13.2 | 11.9 | 10.5 | 8.82 | 7.22 | 4.56 |
| | | 2. Output HP (hp) | 9.87 | 8.72 | 7.56 | 6.19 | 4.83 | 2.83 |
| | | 3. Output Torque (kg-m) | 153 | 162 | 176 | 193 | 225 | 264 |
| | | 4. Output OHL (kg) | 1670 | 1760 | 2000 | 2000 | 2000 | 2000 |
| | 1/50 | 1. Input HP (hp) | 9.60 | 8.98 | 7.87 | 7.12 | 5.47 | 3.54 |
| | | 2. Output HP (hp) | 7.00 | 6.40 | 5.50 | 4.84 | 3.52 | 2.09 |
| | | 3. Output Torque (kg-m) | 139 | 153 | 164 | 192 | 210 | 249 |
| | | 4. Output OHL (kg) | 1900 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | 1/60 | 1. Input HP (hp) | 7.73 | 6.88 | 6.08 | 5.22 | 4.12 | 2.70 |
| | | 2. Output HP (hp) | 5.70 | 5.00 | 4.30 | 3.61 | 2.72 | 1.64 |
| | | 3. Output Torque (kg-m) | 132 | 139 | 149 | 167 | 189 | 226 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |



成大齒輪減速機

蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction

Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 200 | 1/10 | 1. Input HP (hp) | 52.6 | 39.4 | 35.0 | 29.7 | 23.0 | 15.0 |
| | | 2. Output HP (hp) | 44.0 | 33.6 | 29.7 | 25.0 | 19.1 | 12.2 |
| | | 3. Output Torque (kg-m) | 181 | 165 | 183 | 205 | 235 | 300 |
| | | 4. Output OHL (kg) | 1000 | 1150 | 1200 | 1300 | 1400 | 2200 |
| | 1/15 | 1. Input HP (hp) | 39.5 | 31.2 | 27.7 | 23.3 | 18.0 | 11.9 |
| | | 2. Output HP (hp) | 32.1 | 25.9 | 22.8 | 19.0 | 14.4 | 9.20 |
| | | 3. Output Torque (kg-m) | 198 | 192 | 210 | 234 | 266 | 340 |
| | | 4. Output OHL (kg) | 1200 | 1350 | 1440 | 1520 | 1670 | 2200 |
| | 1/20 | 1. Input HP (hp) | 27.6 | 27.6 | 24.2 | 20.3 | 15.8 | 10.3 |
| | | 2. Output HP (hp) | 22.5 | 22.5 | 19.6 | 16.2 | 12.3 | 7.70 |
| | | 3. Output Torque (kg-m) | 180 | 215 | 234 | 258 | 293 | 367 |
| | | 4. Output OHL (kg) | 1200 | 1450 | 1590 | 1720 | 2200 | 2200 |
| | 1/30 | 1. Input HP (hp) | 22.6 | 22.6 | 18.8 | 15.1 | 12.2 | 7.90 |
| | | 2. Output HP (hp) | 17.4 | 17.4 | 14.2 | 11.2 | 8.70 | 5.34 |
| | | 3. Output Torque (kg-m) | 208 | 257 | 262 | 276 | 322 | 394 |
| | | 4. Output OHL (kg) | 1400 | 1650 | 1800 | 2200 | 2200 | 2200 |
| | 1/40 | 1. Input HP (hp) | 17.9 | 16.3 | 14.5 | 11.9 | 9.58 | 6.19 |
| | | 2. Output HP (hp) | 13.6 | 12.2 | 10.7 | 8.61 | 6.61 | 4.00 |
| | | 3. Output Torque (kg-m) | 216 | 233 | 255 | 274 | 315 | 382 |
| | | 4. Output OHL (kg) | 1750 | 1850 | 2200 | 2200 | 2200 | 2200 |
| | 1/50 | 1. Input HP (hp) | 13.2 | 11.9 | 10.6 | 9.00 | 7.20 | 4.61 |
| | | 2. Output HP (hp) | 9.80 | 8.62 | 7.54 | 6.23 | 4.74 | 2.80 |
| | | 3. Output Torque (kg-m) | 195 | 206 | 225 | 248 | 283 | 334 |
| | | 4. Output OHL (kg) | 2000 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 1/60 | 1. Input HP (hp) | 10.8 | 9.77 | 8.49 | 7.41 | 6.11 | 3.75 |
| | | 2. Output HP (hp) | 7.82 | 6.93 | 5.90 | 5.00 | 3.90 | 2.20 |
| | | 3. Output Torque (kg-m) | 184 | 196 | 208 | 235 | 275 | 310 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 225 | 1/10 | 1. Input HP (hp) | 71.2 | 52.3 | 52.3 | 43.5 | 33.8 | 22.1 |
| | | 2. Output HP (hp) | 60.2 | 44.8 | 44.8 | 37.0 | 28.5 | 18.3 |
| | | 3. Output Torque (kg-m) | 239 | 214 | 267 | 294 | 340 | 437 |
| | | 4. Output OHL (kg) | 1050 | 1100 | 1300 | 1400 | 1500 | 2500 |
| | 1/15 | 1. Input HP (hp) | 56.8 | 46.0 | 40.7 | 34.2 | 26.4 | 17.3 |
| | | 2. Output HP (hp) | 46.9 | 38.7 | 34.0 | 28.3 | 21.5 | 13.7 |
| | | 3. Output Torque (kg-m) | 280 | 277 | 304 | 338 | 385 | 490 |
| | | 4. Output OHL (kg) | 1300 | 1400 | 1500 | 1600 | 1800 | 2500 |
| | 1/20 | 1. Input HP (hp) | 38.6 | 38.6 | 33.6 | 27.9 | 22.0 | 14.3 |
| | | 2. Output HP (hp) | 31.9 | 31.9 | 27.5 | 23.1 | 17.5 | 11.0 |
| | | 3. Output Torque (kg-m) | 254 | 304 | 328 | 367 | 418 | 525 |
| | | 4. Output OHL (kg) | 1400 | 1600 | 1800 | 2000 | 2500 | 2500 |
| | 1/30 | 1. Input HP (hp) | 31.5 | 31.5 | 27.0 | 20.3 | 18.2 | 11.7 |
| | | 2. Output HP (hp) | 24.8 | 24.8 | 21.0 | 17.6 | 13.5 | 8.30 |
| | | 3. Output Torque (kg-m) | 296 | 355 | 376 | 420 | 483 | 594 |
| | | 4. Output OHL (kg) | 1700 | 1900 | 2200 | 2500 | 2500 | 2500 |
| | 1/40 | 1. Input HP (hp) | 22.5 | 22.5 | 19.2 | 15.8 | 12.6 | 8.12 |
| | | 2. Output HP (hp) | 17.2 | 17.2 | 14.4 | 11.6 | 8.90 | 5.40 |
| | | 3. Output Torque (kg-m) | 274 | 328 | 344 | 369 | 425 | 515 |
| | | 4. Output OHL (kg) | 2000 | 2200 | 2500 | 2500 | 2500 | 2500 |
| | 1/50 | 1. Input HP (hp) | 18.1 | 16.3 | 14.3 | 12.3 | 9.81 | 6.25 |
| | | 2. Output HP (hp) | 13.6 | 12.0 | 10.4 | 8.60 | 6.60 | 3.90 |
| | | 3. Output Torque (kg-m) | 270 | 286 | 310 | 342 | 394 | 465 |
| | | 4. Output OHL (kg) | 2300 | 2500 | 2500 | 2500 | 2500 | 2500 |
| | 1/60 | 1. Input HP (hp) | 15.1 | 13.6 | 11.9 | 10.1 | 8.05 | 5.27 |
| | | 2. Output HP (hp) | 11.2 | 9.90 | 8.50 | 7.00 | 5.30 | 3.20 |
| | | 3. Output Torque (kg-m) | 259 | 275 | 295 | 324 | 368 | 444 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |

蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

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| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 250 | 1/10 | 1. Input HP (hp) | 96.5 | 65.8 | 65.8 | 55.3 | 43.5 | 28.1 |
| | | 2. Output HP (hp) | 81.3 | 56.3 | 56.3 | 46.9 | 36.5 | 23.1 |
| | | 3. Output Torque (kg-m) | 323 | 269 | 336 | 373 | 435 | 551 |
| | | 4. Output OHL (kg) | 1100 | 1200 | 1500 | 1600 | 1700 | 2700 |
| | 1/15 | 1. Input HP (hp) | 72.3 | 51.6 | 51.6 | 43.7 | 33.9 | 22.3 |
| | | 2. Output HP (hp) | 59.3 | 43 | 43.0 | 36.0 | 27.5 | 17.5 |
| | | 3. Output Torque (kg-m) | 354 | 308 | 385 | 430 | 492 | 626 |
| | | 4. Output OHL (kg) | 1360 | 1400 | 1800 | 2000 | 2300 | 2700 |
| | 1/20 | 1. Input HP (hp) | 42.3 | 42.3 | 42.3 | 35.6 | 27.5 | 17.9 |
| | | 2. Output HP (hp) | 34.8 | 34.8 | 34.8 | 29.0 | 22.0 | 13.8 |
| | | 3. Output Torque (kg-m) | 277 | 332 | 425 | 473 | 538 | 675 |
| | | 4. Output OHL (kg) | 1600 | 1700 | 2300 | 2550 | 2700 | 2700 |
| | 1/30 | 1. Input HP (hp) | 34.9 | 34.9 | 34.9 | 29.8 | 23.2 | 15.4 |
| | | 2. Output HP (hp) | 27 | 27 | 27.0 | 22.6 | 17.1 | 10.7 |
| | | 3. Output Torque (kg-m) | 322 | 387 | 483 | 539 | 612 | 766 |
| | | 4. Output OHL (kg) | 1900 | 2000 | 2460 | 2700 | 2700 | 2700 |
| | 1/40 | 1. Input HP (hp) | 27.9 | 27.9 | 24.5 | 20.8 | 16.5 | 10.7 |
| | | 2. Output HP (hp) | 21.5 | 21.5 | 18.5 | 15.4 | 11.1 | 7.24 |
| | | 3. Output Torque (kg-m) | 342 | 420 | 452 | 502 | 577 | 708 |
| | | 4. Output OHL (kg) | 2200 | 2500 | 2700 | 2700 | 2700 | 2700 |
| | 1/50 | 1. Input HP (hp) | 22.8 | 20.6 | 18.2 | 15.4 | 12.3 | 7.80 |
| | | 2. Output HP (hp) | 17.4 | 15.5 | 13.4 | 11.1 | 8.49 | 5.04 |
| | | 3. Output Torque (kg-m) | 360 | 385 | 416 | 460 | 528 | 626 |
| | | 4. Output OHL (kg) | 2500 | 2700 | 2700 | 2700 | 2700 | 2700 |
| | 1/60 | 1. Input HP (hp) | 18.7 | 16.9 | 14.7 | 12.8 | 10.1 | 6.41 |
| | | 2. Output HP (hp) | 14.1 | 12.5 | 10.7 | 9.00 | 6.80 | 4.00 |
| | | 3. Output Torque (kg-m) | 336 | 358 | 383 | 430 | 487 | 573 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 300 | 1/10 | 1. Input HP (hp) | 146 | 133 | 120 | 101 | 78 | 52 |
| | | 2. Output HP (hp) | 123 | 111 | 100 | 84 | 65 | 42 |
| | | 3. Output Torque (kg-m) | 516 | 563 | 631 | 704 | 814 | 1056 |
| | | 4. Output OHL (kg) | 2590 | 2710 | 2860 | 3090 | 3460 | 3800 |
| | 1/15 | 1. Input HP (hp) | 115 | 105 | 92 | 78 | 61 | 40 |
| | | 2. Output HP (hp) | 96 | 87.2 | 76 | 64 | 49 | 31 |
| | | 3. Output Torque (kg-m) | 564 | 616 | 679 | 757 | 874 | 1106 |
| | | 4. Output OHL (kg) | 2910 | 3040 | 3210 | 3480 | 380 | 3800 |
| | 1/20 | 1. Input HP (hp) | 86 | 79 | 68 | 58 | 45 | 30 |
| | | 2. Output HP (hp) | 70 | 65 | 56 | 47 | 36 | 22 |
| | | 3. Output Torque (kg-m) | 573 | 631 | 680 | 759 | 876 | 1100 |
| | | 4. Output OHL (kg) | 3150 | 3280 | 3500 | 3790 | 3800 | 3800 |
| | 1/30 | 1. Input HP (hp) | 69 | 62 | 54 | 45 | 36 | 23 |
| | | 2. Output HP (hp) | 54 | 48 | 42 | 35 | 27 | 16 |
| | | 3. Output Torque (kg-m) | 658 | 706 | 765 | 848 | 976 | 1196 |
| | | 4. Output OHL (kg) | 3560 | 3800 | 3800 | 3800 | 3800 | 3800 |
| | 1/40 | 1. Input HP (hp) | 53 | 47 | 41 | 34 | 28 | 18 |
| | | 2. Output HP (hp) | 40 | 35 | 31 | 25 | 19 | 12 |
| | | 3. Output Torque (kg-m) | 665 | 710 | 771 | 849 | 979 | 1186 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| | 1/50 | 1. Input HP (hp) | 40 | 36 | 32 | 28 | 21 | 14 |
| | | 2. Output HP (hp) | 30 | 27 | 23 | 20 | 14 | 9 |
| | | 3. Output Torque (kg-m) | 612 | 659 | 713 | 828 | 888 | 1074 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| | 1/60 | 1. Input HP (hp) | 32 | 28 | 25 | 21 | 16 | 11 |
| | | 2. Output HP (hp) | 23 | 21 | 18 | 15 | 11 | 6 |
| | | 3. Output Torque (kg-m) | 571 | 608 | 660 | 729 | 811 | 980 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |



成大齒輪減速機

蝸輪單段減速機型

出力軸許可傳達馬力及許可扭力矩表

Single Reduction

Rating Table

每日 8~10 小時連續運轉並在平均負荷

*applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 350 | 1/10 | 1. Input HP (hp) | - | 185 | 165 | 141 | 110 | 73 |
| | | 2. Output HP (hp) | - | 156 | 139 | 118 | 92 | 59 |
| | | 3. Output Torque (kg-m) | - | 788 | 876 | 993 | 1161 | 1493 |
| | | 4. Output OHL (kg) | - | 3260 | 3430 | 3680 | 4080 | 4890 |
| | 1/15 | 1. Input HP (hp) | - | 153 | 138 | 115 | 90 | 59 |
| | | 2. Output HP (hp) | - | 127 | 114 | 94 | 73 | 46 |
| | | 3. Output Torque (kg-m) | - | 926 | 1044 | 1152 | 1332 | 1706 |
| | | 4. Output OHL (kg) | - | 3680 | 3850 | 4170 | 4650 | 5100 |
| | 1/20 | 1. Input HP (hp) | 140 | 129 | 111 | 95 | 74 | 48 |
| | | 2. Output HP (hp) | 115 | 106 | 91 | 77 | 59 | 37 |
| | | 3. Output Torque (kg-m) | 933 | 1030 | 1111 | 1257 | 1441 | 1798 |
| | | 4. Output OHL (kg) | 3900 | 4000 | 4320 | 4640 | 5100 | 5100 |
| 400 | 1/30 | 1. Input HP (hp) | - | 89 | 78 | 66 | 52 | 34 |
| | | 2. Output HP (hp) | - | 69 | 60 | 50 | 38 | 24 |
| | | 3. Output Torque (kg-m) | - | 1043 | 1133 | 1263 | 1461 | 1792 |
| | | 4. Output OHL (kg) | - | 4870 | 5100 | 5100 | 5100 | 5100 |
| | 1/40 | 1. Input HP (hp) | 79 | 70 | 62 | 52 | 41 | 27 |
| | | 2. Output HP (hp) | 59 | 53 | 47 | 39 | 29 | 18 |
| | | 3. Output Torque (kg-m) | 991 | 1061 | 1171 | 1297 | 1475 | 1782 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 | 5100 | 5100 |
| | 1/50 | 1. Input HP (hp) | 62 | 56 | 49 | 41 | 44 | 29 |
| | | 2. Output HP (hp) | 46 | 42 | 36 | 30 | 31 | 19 |
| | | 3. Output Torque (kg-m) | 926 | 999 | 1081 | 1197 | 1357 | 1647 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 | 5100 | 5100 |
| | 1/60 | 1. Input HP (hp) | 48 | 43 | 38 | 32 | 25 | 16 |
| | | 2. Output HP (hp) | 36 | 32 | 28 | 23 | 17 | 10 |
| | | 3. Output Torque (kg-m) | 872 | 933 | 1011 | 1115 | 1249 | 1512 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 | 5100 | 5100 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 | 600 | 300 |
|------|-------|-------------------------|------|------|------|------|------|------|
| 400 | 1/10 | 1. Input HP (hp) | - | 277 | 245 | 211 | 165 | 109 |
| | | 2. Output HP (hp) | - | 235 | 208 | 179 | 139 | 90 |
| | | 3. Output Torque (kg-m) | - | 1182 | 1308 | 1501 | 1752 | 2258 |
| | | 4. Output OHL (kg) | - | 3830 | 4100 | 4290 | 4770 | 5690 |
| | 1/15 | 1. Input HP (hp) | - | 214 | 193 | 159 | 125 | 81 |
| | | 2. Output HP (hp) | - | 177 | 160 | 131 | 102 | 64 |
| | | 3. Output Torque (kg-m) | - | 1337 | 1509 | 1653 | 1931 | 2421 |
| | | 4. Output OHL (kg) | - | 4340 | 4520 | 4950 | 5480 | 6730 |
| | 1/20 | 1. Input HP (hp) | - | 168 | 148 | 125 | 97 | 63 |
| | | 2. Output HP (hp) | - | 137 | 121 | 102 | 78 | 49 |
| | | 3. Output Torque (kg-m) | - | 1340 | 1746 | 1654 | 1895 | 2405 |
| | | 4. Output OHL (kg) | - | 4910 | 5190 | 5610 | 6290 | 7000 |
| | 1/30 | 1. Input HP (hp) | - | 137 | 121 | 102 | 81 | 51 |
| | | 2. Output HP (hp) | - | 107 | 94 | 79 | 62 | 37 |
| | | 3. Output Torque (kg-m) | - | 1509 | 1660 | 1869 | 2190 | 2638 |
| | | 4. Output OHL (kg) | - | 5320 | 5670 | 6090 | 6740 | 7000 |
| | 1/40 | 1. Input HP (hp) | - | 100 | 88 | 73 | 58 | 37 |
| | | 2. Output HP (hp) | - | 75 | 66 | 55 | 42 | 25 |
| | | 3. Output Torque (kg-m) | - | 1509 | 1651 | 1829 | 2121 | 2534 |
| | | 4. Output OHL (kg) | - | 6350 | 6810 | 7000 | 7000 | 7000 |
| | 1/50 | 1. Input HP (hp) | - | 79 | 69 | 58 | 45 | 30 |
| | | 2. Output HP (hp) | - | 59 | 52 | 58 | 33 | 20 |
| | | 3. Output Torque (kg-m) | - | 1393 | 1525 | 1673 | 1914 | 2331 |
| | | 4. Output OHL (kg) | - | 7000 | 7000 | 7000 | 7000 | 7000 |
| | 1/60 | 1. Input HP (hp) | - | 65 | 56 | 47 | 37 | 24 |
| | | 2. Output HP (hp) | - | 48 | 42 | 47 | 26 | 16 |
| | | 3. Output Torque (kg-m) | - | 1347 | 1456 | 1610 | 1810 | 2201 |
| | | 4. Output OHL (kg) | - | 7000 | 7000 | 7000 | 7000 | 7000 |

蝸輪雙段減速機型

出力軸許可傳達馬力及許可扭力矩表

Double Reduction Rating Table

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|---------|-------|-------------------------|------|------|------|------|
| 34 / 60 | 1/200 | 1. Input HP (hp) | 0.29 | 0.25 | 0.19 | 0.16 |
| | | 2. Output HP (hp) | 0.14 | 0.12 | 0.09 | 0.07 |
| | | 3. Output Torque (kg-m) | 11.6 | 11.6 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 |
| | 1/300 | 1. Input HP (hp) | 0.20 | 0.18 | 0.14 | 0.12 |
| | | 2. Output HP (hp) | 0.09 | 0.08 | 0.06 | 0.05 |
| | | 3. Output Torque (kg-m) | 11.6 | 11.6 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 |
| | 1/400 | 1. Input HP (hp) | 0.16 | 0.14 | 0.12 | 0.10 |
| | | 2. Output HP (hp) | 0.07 | 0.06 | 0.05 | 0.04 |
| | | 3. Output Torque (kg-m) | 11.6 | 11.6 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 |
| | 1/500 | 1. Input HP (hp) | 0.16 | 0.14 | 0.11 | 0.09 |
| | | 2. Output HP (hp) | 0.06 | 0.05 | 0.04 | 0.03 |
| | | 3. Output Torque (kg-m) | 11.6 | 11.6 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 |
| | 1/600 | 1. Input HP (hp) | 0.13 | 0.11 | 0.09 | 0.06 |
| | | 2. Output HP (hp) | 0.05 | 0.04 | 0.03 | 0.02 |
| | | 3. Output Torque (kg-m) | 11.6 | 11.6 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 |
| | 1/800 | 1. Input HP (hp) | 0.11 | 0.09 | 0.06 | 0.03 |
| | | 2. Output HP (hp) | 0.04 | 0.03 | 0.02 | 0.01 |
| | | 3. Output Torque (kg-m) | 11.6 | 11.6 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 |
| | 1/900 | 1. Input HP (hp) | 0.10 | 0.09 | 0.06 | 0.03 |
| | | 2. Output HP (hp) | 0.03 | 0.03 | 0.02 | 0.01 |
| | | 3. Output Torque (kg-m) | 11.6 | 11.6 | 11.6 | 11.6 |
| | | 4. Output OHL (kg) | 200 | 200 | 200 | 200 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|---------|-------|-------------------------|------|------|------|------|
| 40 / 70 | 1/200 | 1. Input HP (hp) | 0.57 | 0.49 | 0.40 | 0.32 |
| | | 2. Output HP (hp) | 0.30 | 0.25 | 0.20 | 0.16 |
| | | 3. Output Torque (kg-m) | 23.8 | 24.7 | 25.0 | 25.0 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 |
| | 1/300 | 1. Input HP (hp) | 0.42 | 0.35 | 0.29 | 0.22 |
| | | 2. Output HP (hp) | 0.21 | 0.17 | 0.14 | 0.10 |
| | | 3. Output Torque (kg-m) | 25.0 | 25.0 | 25.0 | 25.0 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 |
| | 1/400 | 1. Input HP (hp) | 0.34 | 0.29 | 0.23 | 0.19 |
| | | 2. Output HP (hp) | 0.16 | 0.13 | 0.10 | 0.08 |
| | | 3. Output Torque (kg-m) | 25.0 | 25.0 | 25.0 | 25.0 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 |
| | 1/500 | 1. Input HP (hp) | 0.28 | 0.25 | 0.20 | 0.16 |
| | | 2. Output HP (hp) | 0.12 | 0.10 | 0.08 | 0.06 |
| | | 3. Output Torque (kg-m) | 25.0 | 25.0 | 25.0 | 25.0 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 |
| | 1/600 | 1. Input HP (hp) | 0.24 | 0.22 | 0.18 | 0.14 |
| | | 2. Output HP (hp) | 0.10 | 0.09 | 0.07 | 0.05 |
| | | 3. Output Torque (kg-m) | 25.0 | 25.0 | 25.0 | 25.0 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 |
| | 1/800 | 1. Input HP (hp) | 0.21 | 0.16 | 0.14 | 0.12 |
| | | 2. Output HP (hp) | 0.08 | 0.06 | 0.05 | 0.04 |
| | | 3. Output Torque (kg-m) | 25.0 | 25.0 | 25.0 | 25.0 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 |
| | 1/900 | 1. Input HP (hp) | 0.21 | 0.19 | 0.16 | 0.10 |
| | | 2. Output HP (hp) | 0.07 | 0.06 | 0.05 | 0.03 |
| | | 3. Output Torque (kg-m) | 25.0 | 25.0 | 25.0 | 25.0 |
| | | 4. Output OHL (kg) | 300 | 300 | 300 | 300 |

每日 8~10 小時連續運轉並在平均負荷
 *applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|---------|-------|-------------------------|------|------|------|------|
| 50 / 80 | 1/200 | 1. Input HP (hp) | 0.68 | 0.66 | 0.57 | 0.46 |
| | | 2. Output HP (hp) | 0.35 | 0.33 | 0.28 | 0.22 |
| | | 3. Output Torque (kg-m) | 28.2 | 31.7 | 33.7 | 35.0 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 |
| | 1/300 | 1. Input HP (hp) | 0.59 | 0.52 | 0.42 | 0.32 |
| | | 2. Output HP (hp) | 0.28 | 0.24 | 0.19 | 0.14 |
| | | 3. Output Torque (kg-m) | 33.7 | 35.0 | 35.0 | 35.0 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 |
| | 1/400 | 1. Input HP (hp) | 0.52 | 0.43 | 0.35 | 0.29 |
| | | 2. Output HP (hp) | 0.22 | 0.18 | 0.14 | 0.11 |
| | | 3. Output Torque (kg-m) | 35.0 | 35.0 | 35.0 | 35.0 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 |
| | 1/500 | 1. Input HP (hp) | 0.43 | 0.37 | 0.33 | 0.25 |
| | | 2. Output HP (hp) | 0.17 | 0.14 | 0.12 | 0.09 |
| | | 3. Output Torque (kg-m) | 35.0 | 35.0 | 35.0 | 35.0 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 |
| | 1/600 | 1. Input HP (hp) | 0.35 | 0.30 | 0.27 | 0.20 |
| | | 2. Output HP (hp) | 0.14 | 0.12 | 0.10 | 0.07 |
| | | 3. Output Torque (kg-m) | 35.0 | 35.0 | 35.0 | 35.0 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 |
| | 1/800 | 1. Input HP (hp) | 0.32 | 0.28 | 0.21 | 0.16 |
| | | 2. Output HP (hp) | 0.11 | 0.09 | 0.07 | 0.05 |
| | | 3. Output Torque (kg-m) | 35.0 | 35.0 | 35.0 | 35.0 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 |
| | 1/900 | 1. Input HP (hp) | 0.29 | 0.24 | 0.18 | 0.16 |
| | | 2. Output HP (hp) | 0.10 | 0.08 | 0.06 | 0.05 |
| | | 3. Output Torque (kg-m) | 35.0 | 35.0 | 35.0 | 35.0 |
| | | 4. Output OHL (kg) | 400 | 400 | 400 | 400 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|----------|-------|-------------------------|------|------|------|------|
| 60 / 100 | 1/200 | 1. Input HP (hp) | 1.13 | 0.96 | 0.79 | 0.59 |
| | | 2. Output HP (hp) | 0.63 | 0.52 | 0.42 | 0.31 |
| | | 3. Output Torque (kg-m) | 50.0 | 50.0 | 50.0 | 50.0 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 |
| | 1/300 | 1. Input HP (hp) | 0.75 | 0.65 | 0.56 | 0.43 |
| | | 2. Output HP (hp) | 0.42 | 0.35 | 0.28 | 0.21 |
| | | 3. Output Torque (kg-m) | 50.0 | 50.0 | 50.0 | 50.0 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 |
| | 1/400 | 1. Input HP (hp) | 0.62 | 0.53 | 0.44 | 0.35 |
| | | 2. Output HP (hp) | 0.31 | 0.26 | 0.21 | 0.16 |
| | | 3. Output Torque (kg-m) | 50.0 | 50.0 | 50.0 | 50.0 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 |
| | 1/500 | 1. Input HP (hp) | 0.53 | 0.45 | 0.38 | 0.28 |
| | | 2. Output HP (hp) | 0.25 | 0.21 | 0.17 | 0.12 |
| | | 3. Output Torque (kg-m) | 50.0 | 50.0 | 50.0 | 50.0 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 |
| | 1/600 | 1. Input HP (hp) | 0.46 | 0.39 | 0.34 | 0.25 |
| | | 2. Output HP (hp) | 0.21 | 0.17 | 0.14 | 0.10 |
| | | 3. Output Torque (kg-m) | 50.0 | 50.0 | 50.0 | 50.0 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 |
| | 1/800 | 1. Input HP (hp) | 0.39 | 0.32 | 0.26 | 0.22 |
| | | 2. Output HP (hp) | 0.16 | 0.13 | 0.10 | 0.08 |
| | | 3. Output Torque (kg-m) | 50.0 | 50.0 | 50.0 | 50.0 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 |
| | 1/900 | 1. Input HP (hp) | 0.38 | 0.34 | 0.28 | 0.21 |
| | | 2. Output HP (hp) | 0.14 | 0.12 | 0.09 | 0.07 |
| | | 3. Output Torque (kg-m) | 50.0 | 50.0 | 50.0 | 50.0 |
| | | 4. Output OHL (kg) | 450 | 450 | 450 | 450 |



CHENTA

蝸輪雙段減速機型

出力軸許可傳達馬力及許可扭力矩表

Double Reduction

Rating Table

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|-------------|-------|-------------------------|------|------|------|------|
| 70 / 120 | 1/200 | 1. Input HP (hp) | 1.94 | 1.66 | 1.37 | 1.06 |
| | | 2. Output HP (hp) | 1.05 | 0.88 | 0.70 | 0.53 |
| | | 3. Output Torque (kg-m) | 84.0 | 84.0 | 84.0 | 84.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 |
| | 1/300 | 1. Input HP (hp) | 1.40 | 1.20 | 1.00 | 0.76 |
| | | 2. Output HP (hp) | 0.70 | 0.58 | 0.47 | 0.35 |
| | | 3. Output Torque (kg-m) | 84.0 | 84.0 | 84.0 | 84.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 |
| | 1/400 | 1. Input HP (hp) | 1.10 | 0.93 | 0.76 | 0.59 |
| | | 2. Output HP (hp) | 0.53 | 0.44 | 0.35 | 0.26 |
| | | 3. Output Torque (kg-m) | 84.0 | 84.0 | 84.0 | 84.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 |
| | 1/500 | 1. Input HP (hp) | 0.97 | 0.83 | 0.70 | 0.53 |
| | | 2. Output HP (hp) | 0.42 | 0.35 | 0.28 | 0.21 |
| | | 3. Output Torque (kg-m) | 84.0 | 84.0 | 84.0 | 84.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 |
| | 1/600 | 1. Input HP (hp) | 0.81 | 0.69 | 0.57 | 0.44 |
| | | 2. Output HP (hp) | 0.35 | 0.29 | 0.23 | 0.17 |
| | | 3. Output Torque (kg-m) | 84.0 | 84.0 | 84.0 | 84.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 |
| | 1/800 | 1. Input HP (hp) | 0.63 | 0.56 | 0.44 | 0.36 |
| | | 2. Output HP (hp) | 0.26 | 0.22 | 0.17 | 0.13 |
| | | 3. Output Torque (kg-m) | 84.0 | 84.0 | 84.0 | 84.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 |
| | 1/900 | 1. Input HP (hp) | 0.62 | 0.52 | 0.44 | 0.37 |
| | | 2. Output HP (hp) | 0.23 | 0.19 | 0.15 | 0.12 |
| | | 3. Output Torque (kg-m) | 84.0 | 84.0 | 84.0 | 84.0 |
| | | 4. Output OHL (kg) | 520 | 520 | 520 | 520 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|-------------|-------|-------------------------|------|------|------|------|
| 80 / 135 | 1/200 | 1. Input HP (hp) | 2.98 | 2.52 | 2.05 | 1.58 |
| | | 2. Output HP (hp) | 1.73 | 1.44 | 1.15 | 0.87 |
| | | 3. Output Torque (kg-m) | 140 | 140 | 140 | 140 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 |
| | 1/300 | 1. Input HP (hp) | 2.09 | 1.77 | 1.48 | 1.16 |
| | | 2. Output HP (hp) | 1.15 | 0.96 | 0.77 | 0.58 |
| | | 3. Output Torque (kg-m) | 140 | 140 | 140 | 140 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 |
| | 1/400 | 1. Input HP (hp) | 1.64 | 1.41 | 1.16 | 0.89 |
| | | 2. Output HP (hp) | 0.87 | 0.72 | 0.58 | 0.43 |
| | | 3. Output Torque (kg-m) | 140 | 140 | 140 | 140 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 |
| | 1/500 | 1. Input HP (hp) | 1.40 | 1.20 | 0.97 | 0.79 |
| | | 2. Output HP (hp) | 0.69 | 0.58 | 0.46 | 0.35 |
| | | 3. Output Torque (kg-m) | 140 | 140 | 140 | 140 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 |
| | 1/600 | 1. Input HP (hp) | 1.20 | 1.06 | 0.84 | 0.67 |
| | | 2. Output HP (hp) | 0.58 | 0.48 | 0.38 | 0.29 |
| | | 3. Output Torque (kg-m) | 140 | 140 | 140 | 140 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 |
| | 1/800 | 1. Input HP (hp) | 0.95 | 0.83 | 0.70 | 0.55 |
| | | 2. Output HP (hp) | 0.43 | 0.36 | 0.29 | 0.22 |
| | | 3. Output Torque (kg-m) | 140 | 140 | 140 | 140 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 |
| | 1/900 | 1. Input HP (hp) | 1.10 | 0.96 | 0.81 | 0.66 |
| | | 2. Output HP (hp) | 0.38 | 0.32 | 0.26 | 0.20 |
| | | 3. Output Torque (kg-m) | 140 | 140 | 140 | 140 |
| | | 4. Output OHL (kg) | 810 | 810 | 810 | 810 |

每日 8~10 小時連續運轉並在平均負荷
 *applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|--------------|-------|-------------------------|------|------|------|------|
| 100 / 155 | 1/200 | 1. Input HP (hp) | 4.25 | 3.72 | 3.25 | 2.67 |
| | | 2. Output HP (hp) | 2.41 | 2.07 | 1.76 | 1.42 |
| | | 3. Output Torque (kg-m) | 192 | 198 | 210 | 226 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 |
| | 1/300 | 1. Input HP (hp) | 3.32 | 2.95 | 2.58 | 2.10 |
| | | 2. Output HP (hp) | 1.76 | 1.52 | 1.29 | 1.01 |
| | | 3. Output Torque (kg-m) | 210 | 218 | 231 | 242 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 |
| | 1/400 | 1. Input HP (hp) | 2.71 | 2.44 | 2.06 | 1.58 |
| | | 2. Output HP (hp) | 1.41 | 1.22 | 1.01 | 0.76 |
| | | 3. Output Torque (kg-m) | 225 | 234 | 242 | 242 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 |
| | 1/500 | 1. Input HP (hp) | 2.36 | 2.06 | 1.68 | 1.32 |
| | | 2. Output HP (hp) | 1.18 | 1.01 | 0.81 | 0.61 |
| | | 3. Output Torque (kg-m) | 236 | 242 | 242 | 242 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 |
| | 1/600 | 1. Input HP (hp) | 2.19 | 1.86 | 1.55 | 1.19 |
| | | 2. Output HP (hp) | 1.01 | 0.84 | 0.67 | 0.50 |
| | | 3. Output Torque (kg-m) | 242 | 242 | 242 | 242 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 |
| | 1/800 | 1. Input HP (hp) | 1.68 | 1.46 | 1.21 | 0.95 |
| | | 2. Output HP (hp) | 0.76 | 0.63 | 0.51 | 0.38 |
| | | 3. Output Torque (kg-m) | 242 | 242 | 242 | 242 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 |
| | 1/900 | 1. Input HP (hp) | 2.23 | 1.86 | 1.50 | 1.13 |
| | | 2. Output HP (hp) | 0.67 | 0.56 | 0.45 | 0.34 |
| | | 3. Output Torque (kg-m) | 242 | 242 | 242 | 242 |
| | | 4. Output OHL (kg) | 1700 | 1700 | 1700 | 1700 |
| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
| 120 / 175 | 1/200 | 1. Input HP (hp) | 5.66 | 5.12 | 4.35 | 3.56 |
| | | 2. Output HP (hp) | 3.40 | 2.97 | 2.48 | 1.99 |
| | | 3. Output Torque (kg-m) | 271 | 284 | 296 | 317 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 |
| | 1/300 | 1. Input HP (hp) | 4.44 | 3.94 | 3.43 | 2.76 |
| | | 2. Output HP (hp) | 2.48 | 2.16 | 1.83 | 1.44 |
| | | 3. Output Torque (kg-m) | 296 | 309 | 327 | 345 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 |
| | 1/400 | 1. Input HP (hp) | 3.73 | 3.30 | 2.80 | 2.18 |
| | | 2. Output HP (hp) | 2.00 | 1.73 | 1.44 | 1.08 |
| | | 3. Output Torque (kg-m) | 318 | 331 | 345 | 345 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 |
| | 1/500 | 1. Input HP (hp) | 3.14 | 2.73 | 2.26 | 1.75 |
| | | 2. Output HP (hp) | 1.68 | 1.44 | 1.16 | 0.87 |
| | | 3. Output Torque (kg-m) | 334 | 345 | 345 | 345 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 |
| | 1/600 | 1. Input HP (hp) | 2.91 | 2.50 | 2.05 | 1.60 |
| | | 2. Output HP (hp) | 1.44 | 1.20 | 0.96 | 0.72 |
| | | 3. Output Torque (kg-m) | 345 | 345 | 345 | 345 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 |
| | 1/800 | 1. Input HP (hp) | 2.35 | 2.01 | 1.67 | 1.31 |
| | | 2. Output HP (hp) | 1.08 | 0.90 | 0.72 | 0.45 |
| | | 3. Output Torque (kg-m) | 345 | 345 | 345 | 345 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 |
| | 1/900 | 1. Input HP (hp) | 3.20 | 2.66 | 2.13 | 1.60 |
| | | 2. Output HP (hp) | 0.96 | 0.80 | 0.64 | 0.48 |
| | | 3. Output Torque (kg-m) | 345 | 345 | 345 | 345 |
| | | 4. Output OHL (kg) | 2000 | 2000 | 2000 | 2000 |

蝸輪雙段減速機型

出力軸許可傳達馬力及許可扭力矩表

Double Reduction Rating Table

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|-----------|-------|-------------------------|------|------|------|------|
| 120 / 200 | 1/200 | 1. Input HP (hp) | 8.18 | 7.26 | 6.29 | 5.17 |
| | | 2. Output HP (hp) | 4.82 | 4.18 | 3.53 | 2.81 |
| | | 3. Output Torque (kg-m) | 384 | 399 | 421 | 448 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 |
| | 1/300 | 1. Input HP (hp) | 6.16 | 5.45 | 4.74 | 3.84 |
| | | 2. Output HP (hp) | 3.52 | 3.05 | 2.58 | 2.04 |
| | | 3. Output Torque (kg-m) | 421 | 437 | 462 | 488 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 |
| | 1/400 | 1. Input HP (hp) | 5.06 | 4.50 | 3.83 | 2.96 |
| | | 2. Output HP (hp) | 2.81 | 2.47 | 2.04 | 1.53 |
| | | 3. Output Torque (kg-m) | 447 | 471 | 488 | 488 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 |
| 155 / 250 | 1/500 | 1. Input HP (hp) | 4.37 | 3.82 | 3.14 | 2.46 |
| | | 2. Output HP (hp) | 2.37 | 2.04 | 1.63 | 1.23 |
| | | 3. Output Torque (kg-m) | 473 | 488 | 488 | 488 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 |
| | 1/600 | 1. Input HP (hp) | 4.01 | 3.42 | 2.83 | 2.18 |
| | | 2. Output HP (hp) | 2.04 | 1.70 | 1.36 | 1.02 |
| | | 3. Output Torque (kg-m) | 488 | 488 | 488 | 488 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 |
| | 1/800 | 1. Input HP (hp) | 3.13 | 2.67 | 2.19 | 1.72 |
| | | 2. Output HP (hp) | 1.53 | 1.28 | 1.02 | 0.76 |
| | | 3. Output Torque (kg-m) | 488 | 488 | 488 | 488 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 |
| | 1/900 | 1. Input HP (hp) | 3.32 | 2.87 | 2.39 | 1.85 |
| | | 2. Output HP (hp) | 1.36 | 1.14 | 0.91 | 0.58 |
| | | 3. Output Torque (kg-m) | 488 | 488 | 488 | 488 |
| | | 4. Output OHL (kg) | 2200 | 2200 | 2200 | 2200 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|-----------|-------|-------------------------|------|------|------|------|
| 135 / 225 | 1/200 | 1. Input HP (hp) | 11.0 | 9.86 | 8.50 | 7.03 |
| | | 2. Output HP (hp) | 6.85 | 5.98 | 5.02 | 4.03 |
| | | 3. Output Torque (kg-m) | 545 | 571 | 599 | 642 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 |
| | 1/300 | 1. Input HP (hp) | 8.65 | 7.65 | 6.65 | 5.37 |
| | | 2. Output HP (hp) | 5.02 | 4.35 | 3.66 | 2.89 |
| | | 3. Output Torque (kg-m) | 599 | 623 | 655 | 690 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 |
| | 1/400 | 1. Input HP (hp) | 7.19 | 6.39 | 5.39 | 4.18 |
| | | 2. Output HP (hp) | 4.03 | 3.49 | 2.89 | 2.17 |
| | | 3. Output Torque (kg-m) | 642 | 666 | 690 | 690 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 |
| | 1/500 | 1. Input HP (hp) | 6.27 | 5.43 | 4.44 | 3.46 |
| | | 2. Output HP (hp) | 3.40 | 2.89 | 2.31 | 1.73 |
| | | 3. Output Torque (kg-m) | 676 | 690 | 690 | 690 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 |
| | 1/600 | 1. Input HP (hp) | 5.64 | 4.83 | 4.02 | 3.10 |
| | | 2. Output HP (hp) | 2.89 | 2.41 | 1.93 | 1.45 |
| | | 3. Output Torque (kg-m) | 690 | 690 | 690 | 690 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 |
| | 1/800 | 1. Input HP (hp) | 4.42 | 3.79 | 3.15 | 2.46 |
| | | 2. Output HP (hp) | 2.17 | 1.80 | 1.45 | 1.08 |
| | | 3. Output Torque (kg-m) | 690 | 690 | 690 | 690 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 |
| | 1/900 | 1. Input HP (hp) | 4.21 | 3.63 | 3.10 | 2.43 |
| | | 2. Output HP (hp) | 1.92 | 1.61 | 1.28 | 0.96 |
| | | 3. Output Torque (kg-m) | 690 | 690 | 690 | 690 |
| | | 4. Output OHL (kg) | 2500 | 2500 | 2500 | 2500 |

每日 8~10 小時連續運轉並在平均負荷
 *applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|-----------|-------|-------------------------|------|------|------|------|
| 155 / 250 | 1/200 | 1. Input HP (hp) | 14.0 | 12.6 | 10.8 | 8.93 |
| | | 2. Output HP (hp) | 8.71 | 7.74 | 6.48 | 5.18 |
| | | 3. Output Torque (kg-m) | 693 | 739 | 774 | 825 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 |
| | 1/300 | 1. Input HP (hp) | 11.0 | 9.74 | 8.50 | 6.54 |
| | | 2. Output HP (hp) | 6.48 | 5.60 | 4.75 | 3.56 |
| | | 3. Output Torque (kg-m) | 774 | 803 | 850 | 850 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 |
| | 1/400 | 1. Input HP (hp) | 9.16 | 8.09 | 6.60 | 5.09 |
| | | 2. Output HP (hp) | 5.18 | 4.45 | 3.56 | 2.67 |
| | | 3. Output Torque (kg-m) | 824 | 850 | 850 | 850 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 |
| | 1/500 | 1. Input HP (hp) | 7.62 | 6.47 | 5.28 | 4.10 |
| | | 2. Output HP (hp) | 4.27 | 3.56 | 2.85 | 2.14 |
| | | 3. Output Torque (kg-m) | 850 | 850 | 850 | 850 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 |
| | 1/600 | 1. Input HP (hp) | 6.93 | 5.97 | 4.88 | 3.81 |
| | | 2. Output HP (hp) | 3.56 | 2.97 | 2.37 | 1.78 |
| | | 3. Output Torque (kg-m) | 850 | 850 | 850 | 850 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 |
| | 1/800 | 1. Input HP (hp) | 5.40 | 4.64 | 3.82 | 3.01 |
| | | 2. Output HP (hp) | 2.67 | 2.23 | 1.78 | 1.34 |
| | | 3. Output Torque (kg-m) | 850 | 850 | 850 | 850 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 |
| | 1/900 | 1. Input HP (hp) | 5.31 | 4.56 | 3.74 | 2.97 |
| | | 2. Output HP (hp) | 2.37 | 1.98 | 1.58 | 1.19 |
| | | 3. Output Torque (kg-m) | 850 | 850 | 850 | 850 |
| | | 4. Output OHL (kg) | 2700 | 2700 | 2700 | 2700 |

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|-----------|-------|-------------------------|------|------|------|------|
| 175 / 300 | 1/200 | 1. Input HP (hp) | 15.8 | 13.9 | 12.0 | 9.9 |
| | | 2. Output HP (hp) | 9.7 | 8.4 | 7.1 | 5.7 |
| | | 3. Output Torque (kg-m) | 1012 | 1059 | 1122 | 1195 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 |
| | 1/300 | 1. Input HP (hp) | 12.3 | 10.9 | 9.1 | 7.1 |
| | | 2. Output HP (hp) | 7.1 | 6.2 | 5.1 | 3.8 |
| | | 3. Output Torque (kg-m) | 1122 | 1170 | 1200 | 1200 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 |
| | 1/400 | 1. Input HP (hp) | 10.2 | 8.6 | 7.0 | 5.5 |
| | | 2. Output HP (hp) | 5.7 | 4.7 | 3.8 | 2.8 |
| | | 3. Output Torque (kg-m) | 1197 | 1200 | 1200 | 1200 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 |
| | 1/500 | 1. Input HP (hp) | 8.2 | 7.0 | 5.7 | 4.5 |
| | | 2. Output HP (hp) | 4.4 | 3.7 | 3.0 | 2.2 |
| | | 3. Output Torque (kg-m) | 1200 | 1200 | 1200 | 1200 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 |
| | 1/600 | 1. Input HP (hp) | 7.5 | 6.4 | 5.2 | 4.1 |
| | | 2. Output HP (hp) | 3.8 | 3.2 | 2.5 | 1.9 |
| | | 3. Output Torque (kg-m) | 1200 | 1200 | 1200 | 1200 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 |
| | 1/800 | 1. Input HP (hp) | 5.9 | 5.0 | 4.1 | 3.2 |
| | | 2. Output HP (hp) | 2.8 | 2.4 | 1.9 | 1.4 |
| | | 3. Output Torque (kg-m) | 1200 | 1200 | 1200 | 1200 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 |
| | 1/900 | 1. Input HP (hp) | 5.7 | 4.9 | 4.0 | 3.2 |
| | | 2. Output HP (hp) | 2.5 | 2.1 | 1.7 | 1.3 |
| | | 3. Output Torque (kg-m) | 1200 | 1200 | 1200 | 1200 |
| | | 4. Output OHL (kg) | 3800 | 3800 | 3800 | 3800 |



蝸輪雙段減速機型

出力軸許可傳達馬力及許可扭力矩表

Double Reduction Rating Table

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|----------|-------|-------------------------|------|------|------|------|
| 200 / | 1/200 | 1. Input HP (hp) | 24.5 | 21.6 | 17.9 | 13.8 |
| | | 2. Output HP (hp) | 15.2 | 13.2 | 10.7 | 8.0 |
| | | 3. Output Torque (kg-m) | 1700 | 1773 | 1800 | 1800 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 |
| | 1/300 | 1. Input HP (hp) | 18.3 | 15.5 | 12.6 | 9.8 |
| | | 2. Output HP (hp) | 10.7 | 8.9 | 7.2 | 5.4 |
| | | 3. Output Torque (kg-m) | 1800 | 1800 | 1800 | 1800 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 |
| | 1/400 | 1. Input HP (hp) | 14.6 | 12.4 | 10.1 | 7.9 |
| | | 2. Output HP (hp) | 8.3 | 6.9 | 5.5 | 4.2 |
| | | 3. Output Torque (kg-m) | 1800 | 1800 | 1800 | 1800 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 |
| 350 / | 1/500 | 1. Input HP (hp) | 12.0 | 10.2 | 8.5 | 6.5 |
| | | 2. Output HP (hp) | 6.7 | 5.5 | 4.4 | 3.3 |
| | | 3. Output Torque (kg-m) | 1800 | 1800 | 1800 | 1800 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 |
| | 1/600 | 1. Input HP (hp) | 10.5 | 8.9 | 7.2 | 5.7 |
| | | 2. Output HP (hp) | 5.4 | 4.5 | 3.6 | 2.7 |
| | | 3. Output Torque (kg-m) | 1800 | 1800 | 1800 | 1800 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 |
| | 1/800 | 1. Input HP (hp) | 8.4 | 7.1 | 5.9 | 4.6 |
| | | 2. Output HP (hp) | 4.2 | 3.5 | 2.8 | 2.1 |
| | | 3. Output Torque (kg-m) | 1800 | 1800 | 1800 | 1800 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 |
| | 1/900 | 1. Input HP (hp) | 7.8 | 6.7 | 5.5 | 4.3 |
| | | 2. Output HP (hp) | 3.7 | 3.1 | 2.5 | 1.8 |
| | | 3. Output Torque (kg-m) | 1800 | 1800 | 1800 | 1800 |
| | | 4. Output OHL (kg) | 5100 | 5100 | 5100 | 5100 |

每日8~10小時連續運轉並在平均負荷
 *applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day

| SIZE | RATIO | INPUT RPM | 1800 | 1500 | 1200 | 900 |
|----------|-------|-------------------------|------|------|------|------|
| 225 / | 1/200 | 1. Input HP (hp) | 32.9 | 28.8 | 25.0 | 20.1 |
| | | 2. Output HP (hp) | 20.7 | 18.0 | 15.3 | 11.9 |
| | | 3. Output Torque (kg-m) | 2239 | 2342 | 2482 | 2580 |
| | | 4. Output OHL (kg) | 7000 | 7000 | 7000 | 7000 |
| | 1/300 | 1. Input HP (hp) | 25.5 | 22.4 | 18.2 | 14.1 |
| | | 2. Output HP (hp) | 15.3 | 13.2 | 10.6 | 7.9 |
| | | 3. Output Torque (kg-m) | 2482 | 2580 | 2580 | 2580 |
| | | 4. Output OHL (kg) | 7000 | 7000 | 7000 | 7000 |
| | 1/400 | 1. Input HP (hp) | 20.6 | 17.4 | 14.2 | 11.1 |
| | | 2. Output HP (hp) | 11.9 | 9.9 | 7.9 | 6.0 |
| | | 3. Output Torque (kg-m) | 2580 | 2580 | 2580 | 2580 |
| | | 4. Output OHL (kg) | 7000 | 7000 | 7000 | 7000 |
| | 1/500 | 1. Input HP (hp) | 16.8 | 14.3 | 11.7 | 9.1 |
| | | 2. Output HP (hp) | 9.5 | 7.9 | 6.4 | 4.8 |
| | | 3. Output Torque (kg-m) | 2580 | 2580 | 2580 | 2580 |
| | | 4. Output OHL (kg) | 7000 | 7000 | 7000 | 7000 |
| | 1/600 | 1. Input HP (hp) | 14.9 | 12.6 | 10.3 | 8.0 |
| | | 2. Output HP (hp) | 7.9 | 6.6 | 5.3 | 4.0 |
| | | 3. Output Torque (kg-m) | 2580 | 2580 | 2580 | 2580 |
| | | 4. Output OHL (kg) | 7000 | 7000 | 7000 | 7000 |
| | 1/800 | 1. Input HP (hp) | 11.8 | 10.0 | 8.2 | 6.4 |
| | | 2. Output HP (hp) | 6.0 | 5.0 | 4.0 | 3.0 |
| | | 3. Output Torque (kg-m) | 2580 | 2580 | 2580 | 2580 |
| | | 4. Output OHL (kg) | 7000 | 7000 | 7000 | 7000 |
| | 1/900 | 1. Input HP (hp) | 11.5 | 9.8 | 8.1 | 6.3 |
| | | 2. Output HP (hp) | 5.5 | 4.6 | 3.7 | 2.7 |
| | | 3. Output Torque (kg-m) | 2580 | 2580 | 2580 | 2580 |
| | | 4. Output OHL (kg) | 7000 | 7000 | 7000 | 7000 |

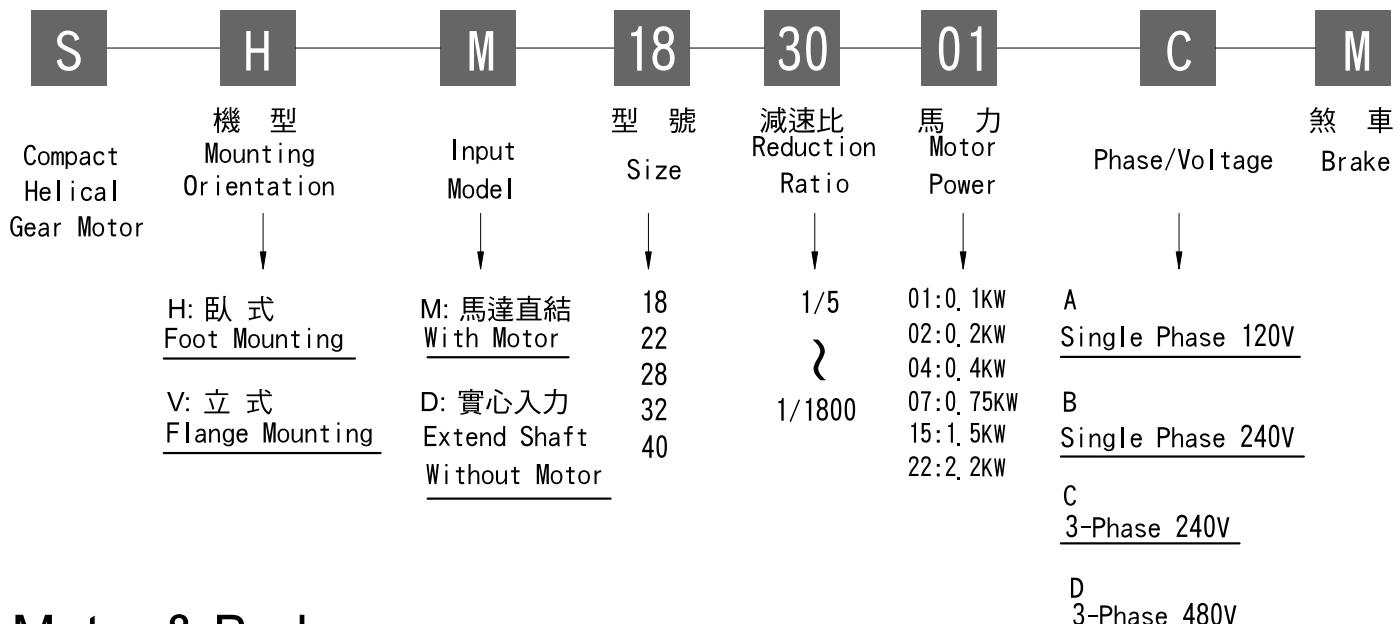
重要說明 (IMPORTANT NOTICE)

為降低蝸桿牙口和蝸輪齒部嚙合時之集中磨耗，本公司產品中下列型號(SIZE)之實際速比，採用「追逐輪齒」(HuntingTooth)速比設計為非整數比，敬請用戶注意。

1. 型號(SIZE)50, 60, 70, 100, 120, 135, 155, 175及225型之速比10:1，其實際速比為10.3333:1(RATIO 10:1, Actual ratio is 10.3333:1)。80型為正速比10:1(RATIO10:1)。
2. 型號(SIZE)50, 60, 70, 80, 100, 120, 135, 155及175型之速比20:1，其實際速比為20.5:1(RATIO 20:1, Actual ratio is 20.5:1)
3. 型號(SIZE)50、60及70型之速比5:1，其實際速比為5.25:1(RATIO 5:1, Actual ratio is 5.25:1)，40型為正速比5:1(Ratio 5:1)。

Compact Helical Gear Motor

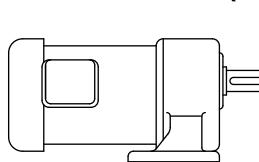
小型齒輪減速馬達之型號編碼說明：



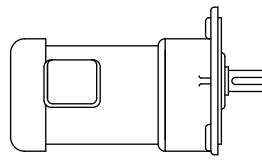
Motor & Brake

| PHASE | HP (4P) | VOLT | Hz | RATING | | | CLASS | Kgfm | Release Time (sec) | | Adjust Gap (mm) | | With Brake | | |
|-------|------------|---------|----|--------|-------|-------|-------|------|-----------------------|--------------|--------------------|-------------------|---------------|----------------|--------------------|
| | | | | R.P.M | AMP'S | Kg-m | | | AC Switch | DC Switch | Specified Value | Boundary Value | Brake Volt | In/Out Volt | Operation Times |
| 3 | 1/8 | 240/480 | 60 | 1650 | 0.7 | 0.06 | E | 0.1 | 0.1 | 0.06 | 0.3 | 0.7 | DC90V | AC220 240V | 10/min |
| | 1/4 | 240/480 | 60 | 1650 | 1.0 | 0.110 | E | 0.2 | 0.07 | 0.03 | 0.3 | 0.7 | | | |
| | 1/2 | 240/480 | 60 | 1680 | 1.9 | 0.216 | E | 0.4 | 0.10 | 0.03 | 0.3 | 0.7 | | | |
| | 1 | 240/480 | 60 | 1700 | 3.4 | 0.427 | E | 0.8 | 0.12 | 0.05 | 0.4 | 1.0 | | | |
| | 2 | 240/480 | 60 | 1710 | 6.1 | 0.849 | E | 1.6 | 0.14 | 0.05 | 0.4 | 1.0 | | | |
| | 3 | 240/480 | 60 | 1725 | 8.7 | 1.262 | E | 2.5 | 0.15 | 0.03 | 0.4 | 1.0 | | | |
| 1 | 1/8 | 120/240 | 60 | 1730 | 2 | 0.06 | E | 0.1 | 0.1 | 0.06 | 0.3 | 0.7 | DC90V | AC100 110V | 10/min |
| | 1/4 | 120/240 | 60 | 1730 | 4.7 | 0.110 | E | 0.2 | 0.07 | 0.03 | 0.3 | 0.7 | | | |
| | 1/2 | 120/240 | 60 | 1750 | 7.5 | 0.216 | E | 0.4 | 0.10 | 0.03 | 0.3 | 0.7 | | | |
| | 1 | 120/240 | 60 | 1740 | 14 | 0.427 | E | 0.8 | 0.12 | 0.15 | 0.4 | 1.0 | | | |

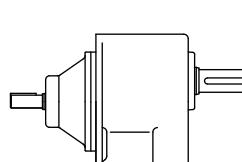
機型示意圖 (Model Illustration)



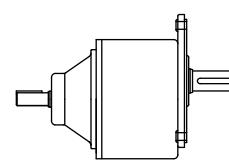
S H M



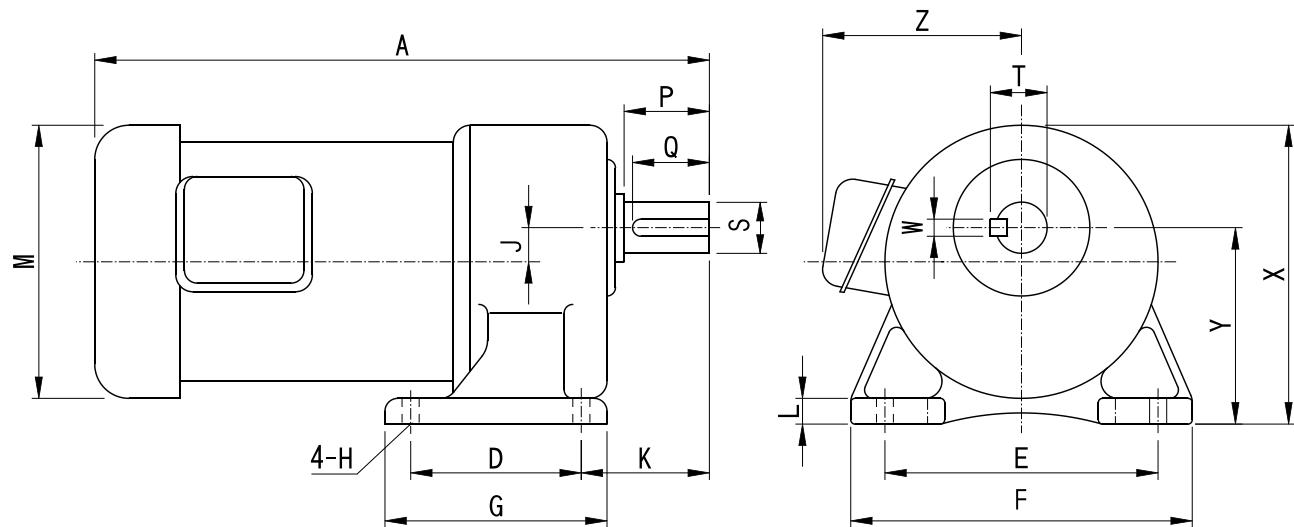
S V M



S H D



S V D



UNIT:mm

| 馬力 HP | 減速比 Gear Ratio | 型號 Size | A | D | E | G | F | H | L | J | K | M | X | Y | Z | 出力軸端 OUTPUT SHAFT END | | | | |
|-------------------|-------------------|------------|--------------|-----|-----|-----|-----|----|----|------|-----|-----|-----|-----|-----|--------------------------|----|----|------|----|
| | | | | | | | | | | | | | | | | P | Q | S | T | W |
| 0.1KW 1/8HP-4P | 5-50 | 18 | 245 (270) | 40 | 110 | 65 | 135 | 10 | 10 | 14 | 50 | 126 | 130 | 85 | 115 | 30 | 27 | 18 | 20 | 5 |
| | 60-200 | 22 | 245 (270) | 65 | 130 | 90 | 156 | 11 | 13 | 18 | 55 | 126 | 135 | 90 | 115 | 40 | 35 | 22 | 25 | 7 |
| | 250-1800 | 28 | 340 (365) | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 126 | 164 | 110 | 115 | 45 | 40 | 28 | 31 | 7 |
| 0.2KW 1/4HP-4P | 5-10 | 18 | 280 (305) | 40 | 110 | 65 | 135 | 10 | 10 | 14 | 50 | 126 | 130 | 85 | 115 | 30 | 27 | 18 | 20 | 5 |
| | 15-90 | 22 | 300 (325) | 65 | 130 | 90 | 156 | 11 | 13 | 18 | 55 | 126 | 135 | 90 | 115 | 40 | 35 | 22 | 25 | 7 |
| | 100-200 | 28 | 335 (360) | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 126 | 164 | 110 | 115 | 45 | 40 | 28 | 31 | 7 |
| | 250-1800 | 32 | 405 (430) | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 126 | 197 | 130 | 115 | 55 | 50 | 32 | 35.5 | 10 |
| 0.4KW 1/2HP-4P | 5-10 | 22 | 325 (375) | 65 | 130 | 90 | 156 | 11 | 13 | 18 | 55 | 142 | 135 | 90 | 120 | 40 | 35 | 22 | 25 | 7 |
| | 15-90 | 28 | 360 (410) | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 142 | 164 | 110 | 120 | 45 | 40 | 28 | 31 | 7 |
| | 100-200 | 32 | 390 (440) | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 142 | 197 | 130 | 120 | 55 | 50 | 32 | 35.5 | 10 |
| | 250-1800 | 40 | 480 (530) | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 142 | 227 | 150 | 120 | 65 | 60 | 40 | 43.5 | 10 |
| 0.75KW 1HP-4P | 5-25 | 28 | 375 (425) | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 156 | 164 | 110 | 130 | 45 | 40 | 28 | 31 | 7 |
| | 30-120 | 32 | 410 (460) | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 156 | 197 | 130 | 130 | 55 | 50 | 32 | 35.5 | 10 |
| | 125-200 | 40 | 450 (500) | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 156 | 227 | 150 | 130 | 65 | 60 | 40 | 43.5 | 10 |
| | 250-1800 | 50 | 570 (620) | 160 | 230 | 201 | 291 | 18 | 25 | 40 | 100 | 156 | 267 | 170 | 130 | 75 | 70 | 50 | 53.5 | 14 |
| 1.5KW 2HP-4P | 5-30 | 32 | 420 (470) | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 179 | 197 | 130 | 145 | 55 | 50 | 32 | 35.5 | 10 |
| | 40-100 | 40 | 460 (510) | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 179 | 227 | 150 | 145 | 65 | 60 | 40 | 43.5 | 10 |
| | 120-200 | 40 | 470 (520) | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 179 | 227 | 150 | 145 | 65 | 60 | 40 | 43.5 | 10 |
| | 250-900 | 50 | 580 (630) | 160 | 230 | 201 | 291 | 18 | 25 | 40 | 100 | 179 | 267 | 170 | 145 | 75 | 70 | 50 | 53.5 | 14 |
| 2.2KW 3HP-4P | 5-30 | 40 | 475 (525) | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 179 | 227 | 150 | 160 | 65 | 60 | 40 | 43.5 | 10 |
| | 40-120 | 50 | 485 (535) | 160 | 230 | 201 | 291 | 18 | 25 | 40 | 100 | 179 | 267 | 170 | 160 | 75 | 70 | 50 | 53.5 | 14 |
| 3.7KW 5HP-4P | 5-30 | 50 | 610 (680) | 160 | 230 | 201 | 291 | 18 | 25 | 40 | 100 | 208 | 267 | 170 | 160 | 75 | 70 | 50 | 53.5 | 14 |

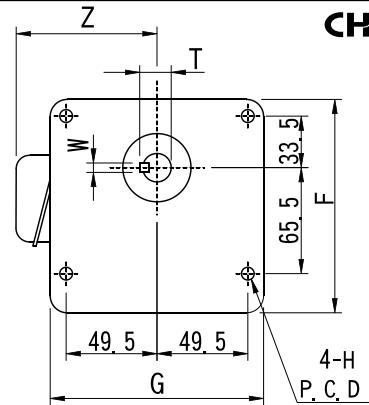
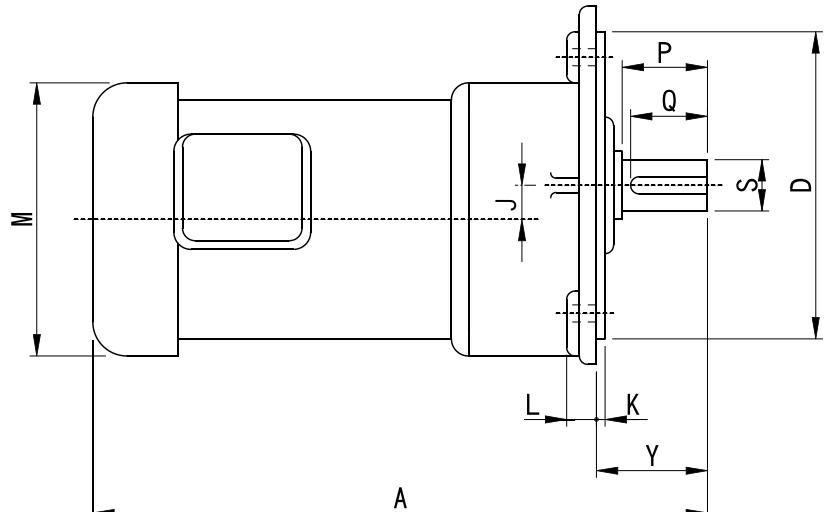


FIG. 1

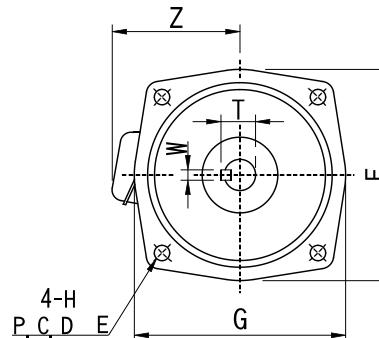
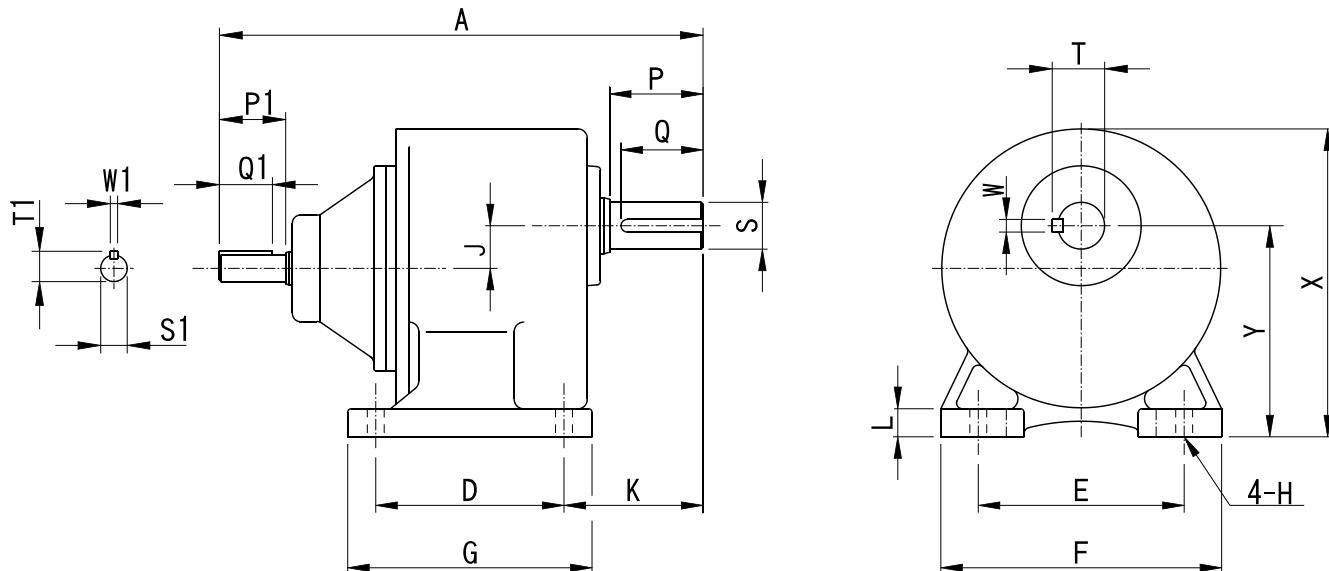


FIG. 2

UNIT: mm

| 馬力 HP | 減速比 Gear Ratio | 型號 Size | 出力軸端 OUTPUT SHAFT END | | | | | | | | | | | | | Flange | | | | | |
|-------------------|-------------------|------------|--------------------------|-----|-----|-----|-----|----|----|------|---|-----|---|----|-----|--------|----|----|------|----|-------|
| | | | A | D | E | G | F | H | L | J | K | M | X | Y | Z | P | Q | S | T | W | |
| 0.1KW 1/8HP-4P | 5-50 | 18 | 260 (280) | 50 | 140 | 120 | 120 | 10 | 13 | 16 | 4 | 126 | - | 36 | 115 | 30 | 27 | 18 | 20 | 5 | FIG.1 |
| | 60-200 | 22 | 290 (310) | 148 | 185 | 165 | 165 | 11 | 12 | 18 | 4 | 126 | - | 46 | 115 | 40 | 35 | 22 | 25 | 7 | FIG.2 |
| | 250-1800 | 28 | 340 (365) | 170 | 215 | 193 | 198 | 11 | 14 | 22 | 4 | 126 | - | 52 | 115 | 45 | 40 | 28 | 31 | 7 | FIG.2 |
| 0.2KW 1/4HP-4P | 5-10 | 18 | 280 (320) | 50 | 140 | 120 | 120 | 10 | 13 | 14 | 4 | 126 | - | 36 | 115 | 30 | 27 | 18 | 20 | 5 | FIG.1 |
| | 15-90 | 22 | 310 (340) | 148 | 185 | 165 | 165 | 11 | 12 | 18 | 4 | 126 | - | 46 | 115 | 40 | 35 | 22 | 25 | 7 | FIG.2 |
| | 100-200 | 28 | 323 (352) | 170 | 215 | 193 | 195 | 11 | 14 | 22 | 4 | 126 | - | 52 | 115 | 45 | 40 | 28 | 31 | 7 | FIG.2 |
| | 250-1800 | 32 | 435 (450) | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 4 | 126 | - | 62 | 115 | 55 | 50 | 32 | 35.5 | 10 | FIG.2 |
| 0.4KW 1/2HP-4P | 5-10 | 22 | 330 (360) | 148 | 185 | 165 | 165 | 11 | 12 | 18 | 4 | 142 | - | 46 | 120 | 40 | 35 | 22 | 25 | 7 | FIG.2 |
| | 15-90 | 28 | 332 (364) | 170 | 215 | 193 | 198 | 11 | 14 | 22 | 4 | 142 | - | 52 | 120 | 45 | 40 | 28 | 31 | 7 | FIG.2 |
| | 100-200 | 32 | 395 (445) | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 5 | 142 | - | 62 | 120 | 55 | 50 | 32 | 35.5 | 10 | FIG.2 |
| | 250-1800 | 40 | 480 (580) | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 142 | - | 72 | 120 | 65 | 60 | 40 | 43.5 | 10 | FIG.2 |
| 0.75KW 1HP-4P | 5-25 | 28 | 371 (398) | 170 | 215 | 193 | 198 | 11 | 14 | 22 | 4 | 156 | - | 52 | 130 | 45 | 40 | 28 | 31 | 7 | FIG.2 |
| | 30-120 | 32 | 410 (460) | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 5 | 156 | - | 62 | 130 | 55 | 50 | 32 | 35.5 | 10 | FIG.2 |
| | 125-200 | 40 | 465 (505) | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 156 | - | 72 | 130 | 65 | 60 | 40 | 43.5 | 10 | FIG.2 |
| | 250-1800 | 50 | 570 (620) | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 156 | - | 83 | 130 | 75 | 70 | 50 | 53.5 | 14 | FIG.2 |
| 1.5KW 2HP-4P | 5-30 | 32 | 420 (470) | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 5 | 179 | - | 62 | 145 | 55 | 50 | 32 | 35.5 | 10 | FIG.2 |
| | 40-100 | 40 | 460 (510) | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 179 | - | 72 | 145 | 65 | 60 | 40 | 43.5 | 10 | FIG.2 |
| | 120-200 | 40 | 470 (520) | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 179 | - | 72 | 145 | 65 | 60 | 40 | 43.5 | 10 | FIG.2 |
| | 250-900 | 50 | 580 (630) | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 179 | - | 83 | 145 | 75 | 70 | 50 | 53.5 | 14 | FIG.2 |
| 2.2KW 3HP-4P | 5-30 | 40 | 475 (525) | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 179 | - | 72 | 160 | 65 | 60 | 40 | 43.5 | 10 | FIG.2 |
| | 40-120 | 50 | 485 (535) | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 179 | - | 83 | 160 | 75 | 70 | 50 | 53.5 | 14 | FIG.2 |
| 3.7KW 5HP-4P | 5-30 | 50 | 610 (680) | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 208 | - | 83 | 160 | 75 | 70 | 50 | 53.5 | 14 | FIG.2 |



UNIT:mm

| 馬力 HP | 減速比 Gear Ratio | 型號 Size | INPUT SHAFT END | | | | | | | | | | | | OUTPUT SHAFT END | | | | | | | | |
|----------|-------------------|------------|-----------------|-----|-----|-----|-----|----|----|------|-----|-----|-----|----|------------------|------------|--------------|----------|----|----|----|------|----|
| | | | A | D | E | G | F | H | L | J | K | X | Y | P1 | Q1 | S1 | T1 | W1 | P | Q | S | T | W |
| 1/8HP | 5-50 | 18 | 166 | 40 | 110 | 65 | 135 | 10 | 10 | 14 | 50 | 130 | 85 | 25 | 22 | 11 (14) | 13.5 (17) | 4 (5) | 30 | 27 | 18 | 20 | 5 |
| | 60-200 | 22 | 193 | 65 | 130 | 90 | 156 | 11 | 13 | 18 | 55 | 135 | 90 | 25 | 22 | 11 (14) | 13.5 (17) | 4 (5) | 40 | 35 | 22 | 25 | 7 |
| | 250-1800 | 28 | 259 | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 164 | 110 | 25 | 22 | 11 (14) | 13.5 (17) | 4 (5) | 45 | 40 | 28 | 31 | 7 |
| 1/4HP | 5-10 | 18 | 166 | 40 | 110 | 65 | 135 | 10 | 10 | 14 | 50 | 130 | 85 | 25 | 22 | 11 (14) | 13.5 (17) | 4 (5) | 30 | 27 | 18 | 20 | 5 |
| | 15-90 | 22 | 193 | 65 | 130 | 90 | 156 | 11 | 13 | 18 | 55 | 135 | 90 | 25 | 22 | 11 (14) | 13.5 (17) | 4 (5) | 40 | 35 | 22 | 25 | 7 |
| | 100-200 | 28 | 204 | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 164 | 110 | 25 | 22 | 11 (14) | 13.5 (17) | 4 (5) | 45 | 40 | 28 | 31 | 7 |
| | 250-1800 | 32 | 288 | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 197 | 130 | 25 | 22 | 11 (14) | 13.5 (17) | 4 (5) | 55 | 50 | 32 | 35.5 | 10 |
| 1/2HP | 5-10 | 22 | 201 | 65 | 130 | 90 | 156 | 11 | 13 | 18 | 55 | 135 | 90 | 30 | 27 | 14 | 17 | 5 | 40 | 35 | 22 | 25 | 7 |
| | 15-90 | 28 | 219 | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 164 | 110 | 30 | 27 | 14 | 17 | 5 | 45 | 40 | 28 | 31 | 7 |
| | 100-200 | 32 | 241 | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 197 | 130 | 30 | 27 | 14 | 17 | 5 | 55 | 50 | 32 | 35.5 | 10 |
| | 250-1800 | 40 | 243 | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 227 | 150 | 30 | 27 | 14 | 17 | 5 | 65 | 60 | 40 | 43.5 | 10 |
| 1HP | 5-25 | 28 | 228 | 90 | 140 | 120 | 170 | 11 | 14 | 22 | 65 | 164 | 110 | 35 | 32 | 19 | 22 | 6 | 45 | 40 | 28 | 31 | 7 |
| | 30-120 | 32 | 260 | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 197 | 130 | 35 | 32 | 19 | 22 | 6 | 55 | 50 | 32 | 35.5 | 10 |
| | 125-200 | 40 | 286 | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 227 | 150 | 35 | 32 | 19 | 22 | 6 | 65 | 60 | 40 | 43.5 | 10 |
| | 250-1800 | 50 | 400 | 160 | 230 | 210 | 291 | 18 | 25 | 40 | 100 | 267 | 170 | 35 | 32 | 19 | 22 | 6 | 75 | 70 | 50 | 53.5 | 14 |
| 2HP | 5-30 | 32 | 275 | 130 | 170 | 167 | 208 | 13 | 17 | 27 | 73 | 197 | 130 | 40 | 35 | 24 | 28 | 8 | 55 | 50 | 32 | 35.5 | 10 |
| | 40-100 | 40 | 312 | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 227 | 150 | 40 | 35 | 24 | 28 | 8 | 65 | 60 | 40 | 43.5 | 10 |
| | 120-200 | 40 | 312 | 150 | 210 | 198 | 252 | 15 | 18 | 32.5 | 93 | 227 | 150 | 40 | 35 | 24 | 28 | 8 | 65 | 60 | 40 | 43.5 | 10 |
| | 250-900 | 50 | 420 | 160 | 230 | 201 | 291 | 18 | 25 | 40 | 100 | 267 | 170 | 40 | 35 | 24 | 28 | 8 | 75 | 70 | 50 | 53.5 | 14 |
| 3HP | 5-30 | 40 | 316 | 160 | 230 | 198 | 252 | 15 | 18 | 32.5 | 93 | 227 | 150 | 45 | 40 | 28 | 32 | 8 | 65 | 60 | 40 | 43.5 | 10 |
| | 40-120 | 50 | 316 | 270 | 360 | 201 | 291 | 18 | 25 | 40 | 100 | 267 | 170 | 45 | 40 | 28 | 32 | 8 | 75 | 70 | 50 | 53.5 | 14 |
| 5HP | 5-30 | 50 | 316 | 270 | 360 | 201 | 291 | 18 | 25 | 40 | 100 | 267 | 170 | 45 | 40 | 28 | 32 | 8 | 75 | 70 | 50 | 53.5 | 14 |

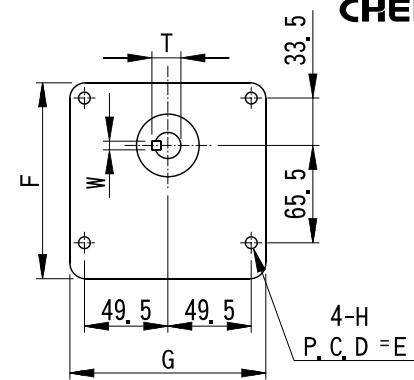
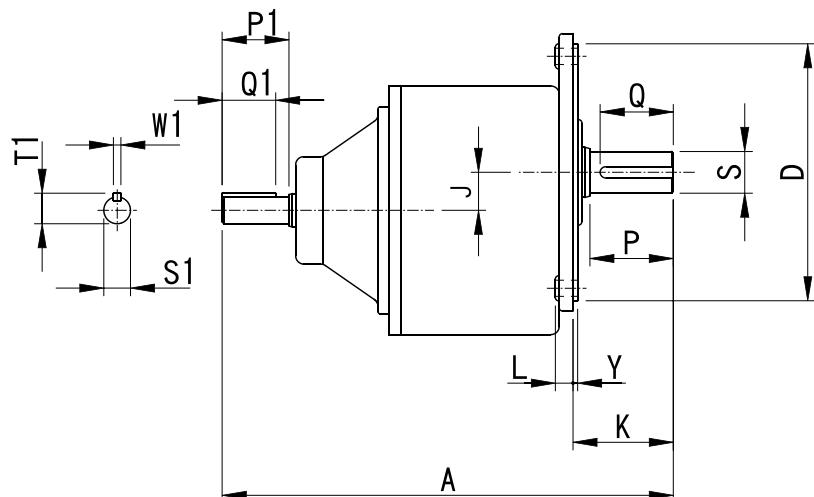


FIG. 1

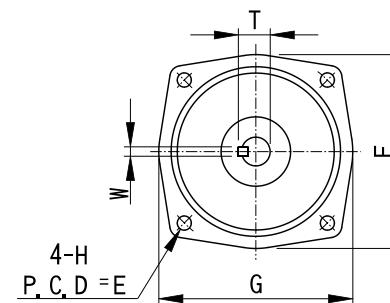


FIG. 2

UNIT:mm

| 馬力 HP | 減速比 Gear Ratio | 型號 Size | A | INPUT SHAFT END | | | | | | | | | | OUTPUT SHAFT END | | | | | | | | |
|----------|-------------------|------------|-----|-----------------|-----|-----|-----|----|----|------|---|----|----|------------------|------------|------|----------|----|----|----|------|----|
| | | | | D | E | G | F | H | L | J | Y | K | P1 | Q1 | S1 | T1 | W1 | P | Q | S | T | W |
| 1/8HP | 5-50 | 18 | 166 | 50 | 140 | 120 | 120 | 10 | 13 | 16 | 4 | 36 | 25 | 22 | 11 (14) | 13.5 | 4 (5) | 30 | 27 | 18 | 20 | 5 |
| | 60-200 | 22 | 193 | 148 | 185 | 165 | 165 | 11 | 12 | 18 | 4 | 46 | 25 | 22 | 11 (14) | 13.5 | 4 (5) | 40 | 35 | 22 | 25 | 7 |
| | 250-1800 | 28 | 259 | 170 | 215 | 193 | 198 | 11 | 14 | 22 | 4 | 52 | 25 | 22 | 11 (14) | 13.5 | 4 (5) | 45 | 40 | 28 | 31 | 7 |
| 1/4HP | 5-10 | 18 | 166 | 50 | 140 | 120 | 120 | 10 | 13 | 14 | 4 | 36 | 25 | 22 | 11 (14) | 13.5 | 4 (5) | 30 | 27 | 18 | 20 | 5 |
| | 15-90 | 22 | 193 | 148 | 185 | 165 | 165 | 11 | 12 | 18 | 4 | 46 | 25 | 22 | 11 (14) | 13.5 | 4 (5) | 40 | 35 | 22 | 25 | 7 |
| | 100-200 | 28 | 204 | 170 | 215 | 193 | 198 | 11 | 14 | 22 | 4 | 52 | 25 | 22 | 11 (14) | 13.5 | 4 (5) | 45 | 40 | 28 | 31 | 7 |
| | 250-1800 | 32 | 288 | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 5 | 62 | 25 | 22 | 11 (14) | 13.5 | 4 (5) | 55 | 50 | 32 | 35.5 | 10 |
| 1/2HP | 5-10 | 22 | 201 | 148 | 185 | 165 | 165 | 11 | 12 | 18 | 4 | 46 | 30 | 27 | 14 | 17 | 5 | 40 | 35 | 22 | 25 | 7 |
| | 15-90 | 28 | 219 | 170 | 215 | 193 | 198 | 11 | 14 | 22 | 4 | 52 | 30 | 27 | 14 | 17 | 5 | 45 | 40 | 28 | 31 | 7 |
| | 100-200 | 32 | 241 | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 5 | 62 | 30 | 27 | 14 | 17 | 5 | 55 | 50 | 32 | 35.5 | 10 |
| | 250-1800 | 40 | 343 | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 72 | 30 | 27 | 14 | 17 | 5 | 65 | 60 | 40 | 43.5 | 10 |
| 1HP | 5-25 | 28 | 228 | 170 | 215 | 193 | 198 | 11 | 14 | 22 | 4 | 52 | 35 | 32 | 19 | 22 | 6 | 45 | 40 | 28 | 31 | 7 |
| | 30-120 | 32 | 260 | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 5 | 62 | 35 | 32 | 19 | 22 | 6 | 55 | 50 | 32 | 35.5 | 10 |
| | 125-200 | 40 | 286 | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 72 | 35 | 32 | 19 | 22 | 6 | 65 | 60 | 40 | 43.5 | 10 |
| | 250-1800 | 50 | 400 | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 83 | 35 | 32 | 19 | 22 | 6 | 75 | 70 | 50 | 53.5 | 14 |
| 2HP | 5-30 | 32 | 275 | 180 | 250 | 215 | 230 | 13 | 15 | 27 | 5 | 62 | 40 | 35 | 24 | 28 | 8 | 55 | 50 | 32 | 35.5 | 10 |
| | 40-100 | 40 | 312 | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 72 | 40 | 35 | 24 | 28 | 8 | 65 | 60 | 40 | 43.5 | 10 |
| | 120-200 | 40 | 312 | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 72 | 40 | 35 | 24 | 28 | 8 | 65 | 60 | 40 | 43.5 | 10 |
| | 250-900 | 50 | 420 | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 83 | 40 | 35 | 24 | 28 | 8 | 75 | 70 | 50 | 53.5 | 14 |
| 3HP | 5-30 | 40 | 316 | 230 | 310 | 265 | 285 | 15 | 20 | 32.5 | 5 | 72 | 45 | 40 | 28 | 32 | 8 | 65 | 60 | 40 | 43.5 | 10 |
| | 40-120 | 50 | 316 | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 83 | 45 | 40 | 28 | 32 | 8 | 75 | 70 | 50 | 53.5 | 14 |
| 5HP | 5-30 | 50 | 425 | 270 | 360 | 300 | 325 | 22 | 22 | 40 | 5 | 83 | 45 | 40 | 28 | 32 | 8 | 75 | 70 | 50 | 53.5 | 14 |



Model : SVM

成大齒輪減速機

Selection Table of HP & Type (小型減速馬達及速比搭配型號之選配)

| Input HP (4P) | Ratio | Type |
|------------------|-------|------|
| 1/8 (0.1KW) | 5 | 18 |
| | 10 | |
| | 15 | |
| | 20 | |
| | 25 | |
| | 30 | |
| | 40 | |
| | 50 | |
| | 60 | |
| | 80 | |
| | 100 | |
| | 120 | |
| | 160 | |
| | 200 | |
| | 300 | |
| | 375 | |
| | 450 | |

| Input HP (4P) | Ratio | Type |
|------------------|-------|------|
| 1 (0.75KW) | 5 | 28 |
| | 10 | |
| | 15 | |
| | 20 | |
| | 25 | |
| | 30 | |
| | 40 | |
| | 50 | |
| | 60 | |
| | 80 | |
| | 100 | |
| | 120 | |
| | 160 | 32 |
| | 200 | |

| Input HP (4P) | Ratio | Type |
|------------------|-------|------|
| 1/4 (0.2KW) | 5 | 18 |
| | 10 | |
| | 15 | |
| | 20 | |
| | 25 | |
| | 30 | |
| | 40 | |
| | 50 | |
| | 60 | |
| | 80 | |
| | 100 | |
| | 120 | |
| | 160 | |
| | 200 | |
| | 300 | |
| | 375 | |
| | 450 | |

| Input HP (4P) | Ratio | Type |
|------------------|-------|------|
| 2 (1.5KW) | 5 | 32 |
| | 10 | |
| | 15 | |
| | 20 | |
| | 25 | |
| | 30 | |
| | 40 | |
| | 50 | |
| | 60 | |
| | 80 | |
| | 100 | |
| | 120 | 40 |

| Input HP (4P) | Ratio | Type |
|------------------|-------|------|
| 3 (2.2KW) | 5 | 32 |
| | 10 | |
| | 15 | |
| | 20 | |
| | 25 | |
| | 30 | |
| | 40 | |
| | 50 | |
| | 60 | |
| | 80 | |
| | 100 | |
| | 120 | |

| Input HP (4P) | Ratio | Type |
|------------------|-------|------|
| 1/2 (0.4KW) | 5 | 22 |
| | 10 | |
| | 15 | |
| | 20 | |
| | 25 | |
| | 30 | |
| | 40 | |
| | 50 | |
| | 60 | |
| | 80 | |
| | 100 | |
| | 120 | |
| | 160 | |
| | 200 | |
| | 300 | |
| | 375 | |
| | 450 | |

Type Selection Table 型號選擇對照表

INPUT RPM: 1750, Permissible Transmission Horsepower and Torque on Output Shaft

輸入1750RPM：出力軸許可傳達馬力及許可扭力矩表

| 型號 Size | 功率 Kw | 減速比 Gear Ratio | 輸出軸轉速 Output Shaft R.P.M | | 重量 Wt. (Kg) | 輸出軸徑 Output Shaft Dia. | 功率 Kw | 減速比 Gear Ratio | 輸出軸轉速 Output Shaft R.P.M | | 重量 Wt. (Kg) | | | |
|------------|------------------|----------------------|-----------------------------------|------|-------------------|---------------------------------|----------|----------------------|-----------------------------------|------|-------------------|-------|------|------|
| | | | 50HZ | 60HZ | | | | | 50HZ | 60HZ | | | | |
| | | | | | | | | | | | | | | |
| 18 | 0.1 1/8 HP-4P | 1/5 | 300 | 360 | 0.28 | 0.24 | 20 | 0.4 1/2 HP-4P | 1/160 | 9.4 | 11.2 | 37.45 | 31.2 | 510 |
| | | 1/10 | 150 | 180 | 0.56 | 0.47 | 50 | | 1/200 | 7.5 | 9 | 44 | 39.4 | 520 |
| | | 1/15 | 100 | 120 | 0.85 | 0.71 | 75 | | 1/30 | 50 | 60 | 13.6 | 11.4 | 350 |
| | | 1/20 | 75 | 92 | 1.1 | 0.94 | 105 | | 1/40 | 37.5 | 45 | 18.3 | 15.2 | 425 |
| | | 1/25 | 60 | 72 | 1.4 | 1.2 | 120 | | 1/50 | 30 | 36 | 22.7 | 18.9 | 500 |
| | | 1/30 | 50 | 60 | 1.7 | 1.4 | 135 | | 1/60 | 25 | 30 | 27.8 | 23.2 | 560 |
| | | 1/40 | 37.5 | 45 | 2.3 | 1.9 | 150 | | 1/80 | 18.8 | 22.5 | 35.7 | 30.5 | 595 |
| | | 1/50 | 30 | 36 | 2.5 | 2.4 | 160 | | 1/100 | 15 | 18 | 36.7 | 31.5 | 750 |
| | 0.2 1/4 HP-4P | 1/60 | 25 | 30 | 3.36 | 2.82 | 165 | 1.5 2HP-4P | 1/5 | 300 | 306 | 4.7 | 3.9 | 170 |
| | | 1/5 | 300 | 360 | 0.57 | 0.48 | 25 | | 1/10 | 150 | 180 | 9.4 | 7.8 | 250 |
| | | 1/10 | 150 | 180 | 1.1 | 0.96 | 55 | | 1/15 | 100 | 120 | 14.3 | 11.9 | 370 |
| | | 1/15 | 100 | 120 | 1.7 | 1.4 | 80 | | 1/20 | 75 | 90 | 19 | 15.8 | 410 |
| | | 1/20 | 75 | 90 | 2.3 | 1.9 | 110 | | 1/25 | 60 | 72 | 23.4 | 19.7 | 470 |
| | | 1/25 | 60 | 72 | 2.9 | 2.4 | 120 | | 1/600 | 2.5 | 3 | 70 | 68.2 | 760 |
| 22 | 0.1 1/8 HP-4P | 1/60 | 25 | 30 | 3.3 | 2.7 | 165 | 0.1 1/8 HP-4P | 1/750 | 2 | 2.4 | 87.3 | 72.8 | 920 |
| | | 1/80 | 18.8 | 22.5 | 4.5 | 3.8 | 170 | | 1/900 | 1.7 | 2 | 104.8 | 87.3 | 1150 |
| | | 1/100 | 15 | 18 | 5.6 | 4.7 | 175 | | 1/1200 | 1.3 | 1.5 | 139.7 | 116 | 1530 |
| | | 1/120 | 12.5 | 15 | 6.6 | 5.5 | 230 | | 1/300 | 5 | 6 | 61.2 | 51.1 | 560 |
| | | 1/160 | 9.4 | 11.2 | 9.2 | 7.7 | 280 | | 1/375 | 4 | 4.8 | 76.5 | 63.9 | 700 |
| | | 1/200 | 7.5 | 9 | 11.2 | 9.4 | 320 | | 1/450 | 3.3 | 4 | 78.4 | 75.8 | 770 |
| | 0.2 1/4 HP-4P | 1/30 | 50 | 60 | 3.4 | 2.9 | 155 | 0.2 1/4 HP-4P | 1/100 | 15 | 18 | 44.6 | 37.1 | 750 |
| | | 1/40 | 37.5 | 45 | 4.6 | 3.8 | 160 | | 1/120 | 12.5 | 15 | 55.1 | 45.8 | 840 |
| | | 1/50 | 30 | 36 | 5.7 | 4.7 | 165 | | 1/160 | 9.4 | 11.2 | 70.2 | 58.5 | 950 |
| | | 1/60 | 25 | 30 | 7.0 | 5.9 | 170 | | 1/200 | 7.5 | 9 | 78.4 | 75.2 | 1050 |
| | | 1/80 | 18.8 | 22.5 | 9.3 | 7.7 | 175 | | 1/30 | 50 | 60 | 27.4 | 22.8 | 520 |
| | | 1/100 | 15 | 18 | 9.6 | 7.9 | 180 | | 1/40 | 37.5 | 45 | 36.9 | 30.7 | 630 |
| | 0.4 1/2 HP-4P | 1/5 | 300 | 360 | 1.3 | 1 | 40 | 0.75 1HP-4P | 1/50 | 30 | 36 | 45.6 | 38 | 750 |
| | | 1/10 | 150 | 180 | 2.4 | 2 | 80 | | 1/60 | 25 | 30 | 54.8 | 45.6 | 880 |
| | | 1/15 | 100 | 120 | 3.7 | 3.1 | 110 | | 1/80 | 18.8 | 22.5 | 72.2 | 60.1 | 1010 |
| | | 1/20 | 75 | 90 | 4.9 | 4.1 | 140 | | 1/100 | 15 | 18 | 74.5 | 61.9 | 1150 |
| | | 1/25 | 60 | 72 | 6.1 | 5.1 | 150 | | 1/300 | 5 | 6 | 14.6 | 280 | |
| 28 | 0.1 1/8 HP-4P | 1/375 | 4 | 4.8 | 21.8 | 18.1 | 336 | 2.2 3HP-4P | 1/10 | 150 | 180 | 14 | 11.7 | 320 |
| | | 1/450 | 3.3 | 4 | 26.2 | 21.8 | 408 | | 1/15 | 100 | 120 | 20.8 | 17.3 | 430 |
| | | 1/100 | 15 | 18 | 11.4 | 9.5 | 260 | | 1/20 | 75 | 90 | 28.3 | 23.5 | 515 |
| | 0.2 1/4 HP-4P | 1/120 | 12.5 | 15 | 14.1 | 11.8 | 265 | | 1/25 | 60 | 72 | 33.5 | 28 | 615 |
| | | 1/160 | 9.4 | 11.2 | 18.3 | 15.3 | 275 | | 1/300 | 5 | 6 | 17.4 | 280 | |
| | | 1/200 | 7.5 | 9 | 23.1 | 19.3 | 280 | | 1/375 | 4 | 4.8 | 21.8 | 18.1 | |
| | 0.4 1/2 HP-4P | 1/30 | 50 | 60 | 7.1 | 5.9 | 220 | | 1/450 | 3.3 | 4 | 26.2 | 21.8 | |
| | | 1/40 | 37.5 | 45 | 9.6 | 8 | 265 | | 1/600 | 2.5 | 3 | 28.4 | 23.8 | |
| | | 1/50 | 30 | 36 | 12.1 | 10.1 | 330 | | 1/750 | 2 | 2.4 | 36 | 30.3 | |
| | | 1/60 | 25 | 30 | 14.2 | 11.8 | 360 | | 1/900 | 1.7 | 2 | 44 | 36.3 | |
| | | 1/80 | 18.8 | 22.5 | 19.1 | 15.9 | 430 | | 1/1200 | 1.3 | 1.5 | 69.3 | 58 | |
| | | 1/100 | 15 | 18 | 19.7 | 16.4 | 505 | | 1/100 | 15 | 18 | 19.7 | 16.4 | |
| | 0.75 1HP-4P | 1/5 | 300 | 360 | 2.4 | 2 | 88 | | 1/10 | 150 | 180 | 14 | 11.7 | 320 |
| | | 1/10 | 150 | 180 | 4.8 | 4 | 170 | | 1/15 | 100 | 120 | 20.8 | 17.3 | 430 |
| | | 1/15 | 100 | 120 | 7.1 | 5.9 | 195 | | 1/20 | 75 | 90 | 28.3 | 23.5 | 515 |
| | | 1/20 | 75 | 90 | 9.4 | 7.8 | 260 | | 1/25 | 60 | 72 | 33.5 | 28 | 615 |
| | | 1/25 | 60 | 72 | 11.7 | 9.7 | 320 | | 1/300 | 5 | 6 | 30.2 | 25.3 | 500 |
| 32 | 0.1 1/8 HP-4P | 1/600 | 2.5 | 3 | 28.4 | 23.8 | 520 | 0.2 1/4 HP-4P | 1/375 | 4 | 4.8 | 38.6 | 32.4 | 630 |
| | | 1/750 | 2 | 2.4 | 36 | 30.3 | 590 | | 1/450 | 3.3 | 4 | 44 | 38.4 | 740 |
| | | 1/900 | 1.7 | 2 | 44 | 36.3 | 720 | | 1/100 | 15 | 18 | 23.6 | 19.7 | 470 |
| | | 1/1200 | 1.3 | 1.5 | 69.3 | 58 | 1020 | | 1/120 | 12.5 | 15 | 28.96 | 24.1 | 480 |
| | 0.2 1/4 HP-4P | 1/300 | 5 | 6 | 30.2 | 25.3 | 500 | | 1/100 | 15 | 18 | 23.6 | 19.7 | 470 |
| | | 1/375 | 4 | 4.8 | 38.6 | 32.4 | 630 | | 1/450 | 3.3 | 4 | 44 | 38.4 | 740 |
| | | 1/450 | 3.3 | 4 | 44 | 38.4 | 740 | | 1/100 | 15 | 18 | 23.6 | 19.7 | 470 |
| | 0.4 1/2 HP-4P | 1/100 | 15 | 18 | 23.6 | 19.7 | 470 | | 1/120 | 12.5 | 15 | 28.96 | 24.1 | 480 |
| | | 1/120 | 12.5 | 15 | 28.96 | 24.1 | 480 | | 1/120 | 12.5 | 15 | 28.96 | 24.1 | 480 |

* Service Factor: 1.0

操作係數：1.0

1KG-M=86.796IN-LB

每日 8~10 小時連續運轉並在平均負荷

* Applies for continuous service free from recurrent shock loading and does not exceed 10 hours per day.

OVERHUNG LOAD(OHL):kg

選訂方法／範例說明

入力軸迴轉數

以聯結器直結或以皮帶傳動時之入力軸迴轉數，一般為1,800~600 rpm。本公司之標準蝸輪減速機規定周速度為10 m / sec 以內，入力軸轉數最高為2,000 rpm。

600 rpm以下之低轉速，尤其100 rpm以下時，因考慮效率之降低及出力軸扭力矩之增大，而須選大一級型號，並特別考慮潤滑問題。

出力軸迴轉數

出力軸轉數依入力軸迴轉數及速比而決定之，如下公式：

$$\text{出力軸轉數} = \frac{\text{入力軸轉數}}{速比} = 1800 \times \frac{1}{20} = 90 \text{ rpm}$$

效率

蝸齒輪之效率決定於其進角(螺旋角)，周速度及其材質之摩擦係數。

可按下公式計算型錄中之各減速機之效率。

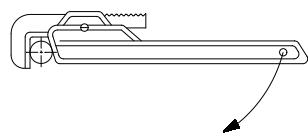
$$\text{效率} = \frac{\text{出力軸kW}}{\text{入力軸kW}} \times 100\% \quad \text{公式(1)}$$

扭力 (扭矩) (Torque)

能使物體迴轉之外力為扭矩。

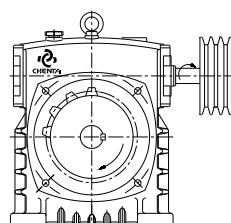
如圖1使用管板鉗鎖螺絲時，管板鉗以螺絲中心為中心而迴轉。

圖1



如圖2乃表示減速機將迴轉動力傳達，入力軸上之皮帶輪(或聯結器)迴轉時，將動力傳到出力軸上之鏈齒輪。

圖2



<例題1>

如圖3有直徑500mm之迴轉體(滑輪)，其圓周吊掛重量50kg之物體時，請問其迴轉體(滑輪)軸，扭矩有多少kgf-m?

$$T = W \times R \quad \dots \dots \dots \text{公式(2)}$$

$$R = \frac{500\text{m}}{2 \times 1000\text{m}} = 0.25\text{m}$$

$$T = 50\text{kg} \times 0.25 = 12.5\text{kgf-m}$$

動力與扭矩之關係 (Relation between horsepower and torque)

圖3之迴轉體受(kgf-m)之扭力而迴轉N轉時，可依下列公式。

$$Kw = \frac{N \times T}{974} \quad \dots \dots \dots$$

Kw:入力動力[kW]

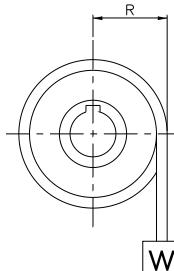
N:出力迴轉數[rpm]

T:出力扭力[kgf-m]

所以，

$$T = \frac{974 \times Kw}{N} [\text{kgf-m}]$$

圖3



<例題2>

圖3之迴轉體承受10kgf-m之扭力，而以每分鐘30rpm迴轉時，

入力馬力為幾kW?(依公式3)

依公式(3)

$$Kw = \frac{30\text{rpm} \times 10\text{kgf-m}}{974} = 0.308\text{kW}$$

答案為0.308kW。

按上式可知，在固定動力之下，若迴轉數增加則扭矩減少。反之，若迴轉數減少，則扭矩增大。換句話說，以固定動力馬達迴轉之減速機，其減速比愈大，扭力矩亦愈大，而齒面上承受之力愈大，反之，若減速比小其扭力矩及齒面所承受力亦小。

荷重係數(荷載係數) (Load factor)

蝸齒輪減速機之傳達容量強度，其計算公式是按10小時連續運轉之正常條件下設計的。故若扭力矩及速度會因週率的不同而變換時，或者常受衝擊荷重時，則可由下列荷重係數表中選出適合之型號來使用。

荷重係數表

| 電動機(馬達) | 荷重之種類 | | |
|-------------|---------|------|------|
| | 每日平均中荷重 | 中級衝擊 | 重級衝擊 |
| 30分以內之運轉 | 0.70 | 0.80 | 1.00 |
| 2小時以內之運轉 | 0.80 | 0.90 | 1.25 |
| 10小時以內之連續運轉 | 1.00 | 1.25 | 1.50 |
| 24小時以內之連續運轉 | 1.25 | 1.50 | 1.75 |

若1小時內有10次以上之起動停止時，請照下表

| 電動機(馬達) | 荷重之種類 | | |
|-------------|---------|------|------|
| | 每日平均中荷重 | 中級衝擊 | 重級衝擊 |
| 30分以內之運轉 | 0.90 | 1.00 | 1.25 |
| 2小時以內之運轉 | 1.00 | 1.25 | 1.50 |
| 10小時以內之連續運轉 | 1.25 | 1.50 | 1.75 |
| 24小時以內之連續運轉 | 1.50 | 1.75 | 2.00 |

若用於攪拌機、水泥機等荷重變動激烈時，請照下表

| 電動機(馬達) | 入力軸正迴轉 | 入力軸正、逆迴轉 |
|-------------|--------|----------|
| | 每日 | 入力軸正迴轉 |
| 30分以內之運轉 | 1.00 | 1.25 |
| 2小時以內之運轉 | 1.25 | 1.50 |
| 10小時以內之連續運轉 | 1.50 | 1.75 |
| 24小時以內之連續運轉 | 1.75 | 2.00 |

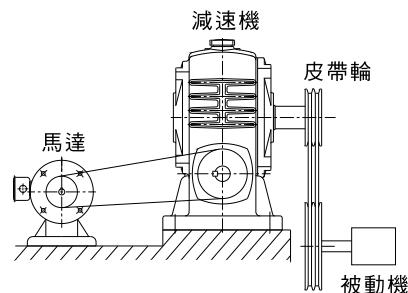
超吊荷重(Overhung Load) 扭力與超吊荷重之關係

使減速機軸變形彎曲，或外殼破裂的原因之一為超吊荷重所引起的。

超吊荷重就是作用於軸上之懸吊荷重，是選擇減速機時必須考慮之條件之一。

一般將扭力矩除以迴轉體之半徑就是超吊荷重。

圖4



超吊荷重係數 (Overhung load coefficient)

在聯結減速機入力軸及出力軸，使用聯結器(coupling)時，僅考慮扭力荷重就可以。但若使用鏈條齒輪，三角皮帶輪及平皮帶輪傳動時，就必需考慮超吊荷重係數：

下表為超吊荷重係數：

| 超吊荷重係數 | | | |
|--------|------|-------|------|
| 鏈齒輪 | 齒輪 | 三角皮帶輪 | 平皮帶 |
| 1.00 | 1.25 | 1.50 | 2.50 |

超吊荷重之計算基準

設其作用點在軸心伸出端LS尺寸之中心位置來計算軸承，軸心，及外殼之強度。所以若作用點移動而在LS尺寸之中心時，以下列兩條公式來計算之。

1)荷重作用位置在外側邊時之超吊荷重
 $L_a = L_c \frac{\ell}{\ell + \ell_b}$ 公式(4)

2)荷重作用位置在內側邊時之超吊荷重
 $L_a = L_c \frac{\ell}{\ell - \ell_b}$ 公式(5)

L_a ：所要求之超吊荷重(Overhung load)

L_c ：型錄中所記之超吊荷重

ℓ ：Ls中心到軸承中心的距離

ℓ_b ：由荷重作用點到Ls中心之距離

圖5

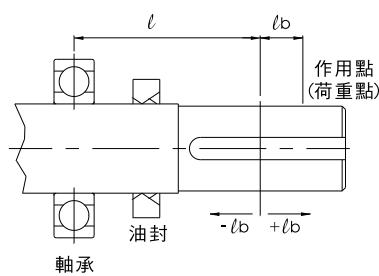
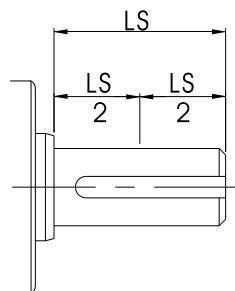


圖6



各型號之出力軸之尺寸表(mm)

| 型 號 | 32 | 40 | 50 | 60 |
|------|------|------|-------|------|
| ℓ 尺寸 | 39 | 38.5 | 47 | 54.5 |
| 型 號 | 70 | 80 | 100 | 120 |
| ℓ 尺寸 | 62 | 64 | 83.5 | 87.5 |
| 型 號 | 135 | 155 | 175 | 200 |
| ℓ 尺寸 | 96.5 | 100 | 112.5 | 142 |
| 型 號 | 225 | 250 | 300 | 350 |
| ℓ 尺寸 | 172 | 171 | 186 | 205 |
| 型 號 | 400 | | | |
| ℓ 尺寸 | 229 | | | |

<例題4>

傳達27kgf·m之減速機出力軸上套150mm之齒輪時，實際之超吊荷重是多少kg?

以公式(6)

$$L_r = \frac{T}{R} \times f \\ = \frac{27}{0.075} \times 1.25 = 450 \text{ kg}$$

所以450kg

<例題5>

CTB120型1/50，入力回轉數1800rpm，傳達扭力矩40kgf·m之減速機出力軸套上250mm之鏈齒輪，而超吊荷重作用於出力軸尺寸中心偏外10mm時，請檢討此型號可以嗎?

實際超吊荷重

按(6)式

$$L_r = \frac{T}{R} \times f \\ = \frac{40}{0.125} \times 1 = 320 \text{ kg}$$

依許可超吊荷重

按(4)式

$$L_a = L_c \frac{\ell}{\ell + \ell_b} \\ = 500 \times \frac{87.5}{87.5 + 10} = 449 \text{ kg}$$

而449kg大於320kg，所以知許可超吊荷重比實際超吊荷重大，即為安全可用。

<例題6>

減速機之選訂範例

(以使用於輸送帶為例)

使用條件：

入力軸迴轉數1500rpm

出力軸迴轉數30rpm

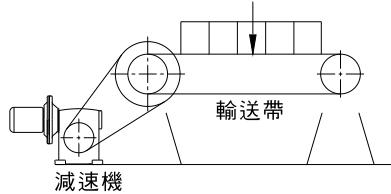
出力軸與輸送帶速比1:2鏈條傳動

需要驅動輸送帶之扭力矩為70(kgf·m)

平均荷重，24小時連續運轉，荷重係數為1.25

減速機出力軸套上φ250mm之鏈齒輪，而其超吊荷重作用於Ls尺寸中心向外移20mm處。

(註：未考慮鏈條效率損失)



2. 減速比: $\frac{30}{1500} = 1/50$

3. 減速機出力軸扭力矩= $\frac{70}{2}$
(1: 2鏈條傳動)
= 35 [kgf-m]

荷重係數1.25

$35 \times 1.25 = 43.8$ [kgf-m]

從型錄中可找出

#120型-1/50之許可扭力矩為55.2kgf-m
(比實際43.8 kgf-m還大，故安全。)
許可O.H.L.為520kg

實際超吊荷重

$L_r = \frac{35}{0.125} \times 1 = 280$ [kg]

因超吊荷重之作用點在LS尺寸中心偏外20mm，所以調整後之許可O.H.L.為：

$L_a = L_c \frac{\ell}{\ell + \ell_b} \dots \dots \dots \text{公式(4)}$

= $520 \times \frac{87.5}{87.5 + 20} = 423$ [kg]

則423kg比實際超吊荷重280kg還大，故安全可用。

〈例題7〉

減速機之選定

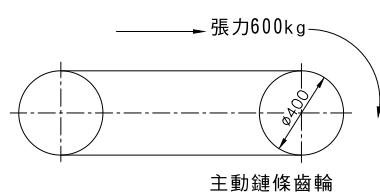
鏈條輸送機之條件：

鏈條張力為600kg

主動鏈條齒輪之直徑為 400mm

輸送速度為3.7m/min，而主動鏈條齒輪以聯結器(Coupling)與減速機出力軸直結。

問需何種減速機？



已知：

入力軸迴轉數=1800rpm

8小時/日平均負荷

設O.H.L.=600kg

主動鏈條齒輪之迴轉數是

$\pi D N = 3.7 \text{ m/min}$

$$N = \frac{30}{\pi D}$$

$$= \frac{3.7}{3.14 \times 0.4} (\text{m})$$

$$= 2.94 \approx 3 \text{ rpm}$$

主動部鏈條齒輪上之扭力矩T是

$$T = W \cdot R$$

$$= 600 \times 0.2 = 120 \text{ [kgf-m]}$$

減速比=1/600

選減速機為雙段式80-135-1/600，其容許扭力矩(許可扭力矩)為140kgf-m(大於120kgf-m)，故安全可用。
容許O.H.L. 810 [kg] (大於600kg)，亦安全。

〈例題8〉

請選出減速比1/40，入力軸套上1:3之減速皮帶輪，以動力0.75kW馬達驅動之減速機型號。

入力軸(蝸桿)迴轉數為
(已知馬達轉速為1800rpm)

$\frac{1800}{3} = 600 \text{ rpm}$

則由型錄中可找出是80型
(型錄表列入力軸許可馬力為0.86kw)

〈例題9〉

入力軸套上Ø400mm之把手搖輪，要以20kg之手動力來迴轉時，所能使用之最大減速機型號是多大？(速比為1/50)

入力軸扭力矩是
 $20\text{kg}(W) \times 0.2\text{m}(R) = 4\text{kgf-m}$

所傳達於出力軸上之扭力矩為
 $4\text{kgf-m} \times 50 \times 0.3$ (啟動摩耗係數)
= 60kgf-m

則由型錄中可找出是120型

〈例題10〉

馬達1.5kW, 60Hz(週率)，6P(極)，以聯結器(Coupling)直結於入力軸，減速比1/30時，請算出減速機之大小型號，效率及出力軸動力？

●由型錄扭力矩表上找出入力1200rpm(60Hz X 6P)，速比1/30，可傳達1.5kW之減速機型為100型。(表列2.93HP)

則型號為100型

●效率= $\frac{\text{出力軸KW}}{\text{入力軸KW}}$

$$= \frac{2.06}{2.93} = 0.7 (70\%) \text{ (由型錄附表查出)}$$

●出力軸動力= $1.5\text{kW} \times 70\% = 1.05\text{kW}$
(1.4HP)

●若已知出力軸上之荷重及負荷時其選定法如下：

〈例題11〉

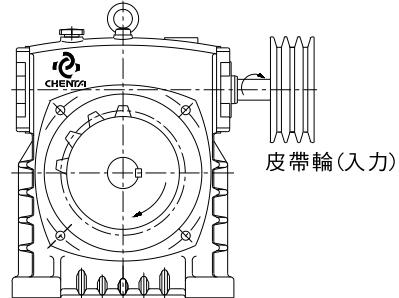
出力軸迴轉數30rpm，減速比1/60，出力軸扭力矩需要為45kgf-m時，請選出減速機之型號來。

入力軸迴轉數是 $30 \times 60 = 1800 \text{ rpm}$
則由型錄表中可找出120型
(表列47.4kgf-m)

〈例題12〉

出力軸扭力矩70kgf-m，減速比1/40，減速機出力軸上套裝100之鏈齒輪驅動時，請問超吊荷重有多少，又要用何型號之減速機？

(設入力軸迴轉數1800rpm)



●O.H.L. = $\frac{T}{R} \times f$

$$= \frac{70}{0.05} \times 1 = 1400 \text{ kg (超吊荷重)}$$

由型錄中選出可容許超吊荷重1400kg之減速機為

型號155型(1/40) (表列1490kg)

常用之設計參考資料：

| 馬達 公 式 | | | | | |
|--|--|--------------------------|-----------------------|------------------------------|----------------------------|
| 直 流 馬 達 | | 交 流 馬 達 | | 單 相 Single Phase | |
| | | | | 三 相 Three Phase | |
| AMP = $(HP \times 746) / (VOLT \times EFF)$ (kWx1000) / VOLTS | | (HPx746) / (VOLTxEFFxPF) | (kWx1000) / (VOLTxPF) | (HPx746) / (VOLTxEFFxFx1,73) | (kWx1000) / (VOLTxPFx1,73) |
| KW = $(AMP \times VOLT) / 1000$ | | (AMPxVOLTxPF) / 1000 | | (AMPxVOLTxPFx1,73) / 1000 | |
| HP = $(AMP \times VOLT \times EFF) / 746$ | | (AMPxVOLTxEFF) / 746 | | (AMPxVOLTxEFFxFx1,73) / 746 | |
| PF = 功率因數約 80% | | | | | |
| EFF = 效率，約 80% - 90% | | | | | |
| 若欲取得更精確資料，則請與馬達製造商聯絡 | | | | | |

| 常 用 公 式 集 | | | | | |
|---------------------|-----------------|---|------------------|--|--|
| 欲 知 的 條 件 | 代 碼 | 公 式 | 單 位 | | |
| 扭力 Torque | T | $T = F \times R$ | (Kg-m) | | |
| 扭力 Torque | T | $T = (716.2 \times H_p) / N$ | (Kg-m) | | |
| 扭力 Torque | T | $T = (974 \times kW) / N$ | (Kg-m) | | |
| 馬力 HP | Hp | $H_p = (T \times N) / 716.2$ | (H_p) | | |
| 動力 kW | kW | $kW = (T \times N) / 974$ | (kW) | | |
| 馬力 HP | Hp | $H_p = (F \times V) / 75$ | (H_p) | | |
| 動力 kW | kW | $kW = (F \times V) / 102$ | (kW) | | |
| 速度 SPEED | V | $V = (\pi \times D \times N) / 60$ | (m/sec) | | |
| 減速比 RATIO | i | $i = N_1 / N_2$ | | | |
| 飛輪效應 Dynamic moment | GD ² | $GD^2 = 364 \times (F \times V^2 \times N^2)$ | kgm ² | | |
| F : 重量(kg) | | D : 直徑(m) | | | |
| N : 出力軸每分鐘迴轉數(RPM) | | R : 半徑(m) | | | |

| 單位換算 Conversion Factors | | | | | |
|-------------------------|-------------|------------|-------------|------------|------------|
| 1kW | 1HP | 1kg-m | 1Nm | 1in-lb | 1ft-lb |
| 1.34HP | 0.746kW | 9.807 N-m | 0.10197kg-m | 0.1129 N-m | 1.356 N-m |
| 1.36PS | 1.01PS | 7.233ftlb | 0.7375ftlb | 0.0115kg-m | 0.1383kg-m |
| 102.0kg-m/s | 76.07kg-m/s | 86.796inlb | 8.85070inlb | 0.083ftlb | 12inlb |

潤滑油選定 Selection of Lubricant Oil 標準負荷，入力轉速 600RPM 或之上

| 環境溫度(°C) | 中國石油 | ISO VG | Mobil | Shell |
|-----------|--------|--------|---------------|-----------|
| -30 ~ -15 | HD 100 | VG 100 | Mobilgear 627 | Omala 100 |
| -15 ~ -3 | HD 150 | VG 150 | Mobilgear 629 | Omala 150 |
| -3 ~ 23 | HD 220 | VG 220 | Mobilgear 630 | Omala 220 |
| 23 ~ 40 | HD 320 | VG 320 | Mobilgear 632 | Omala 320 |
| 40 ~ 80 | HD 460 | VG 460 | Mobilgear 634 | Omala 460 |

超重負荷，入力轉速 600RPM 或之上

| 環境溫度(°C) | 中國石油 | ISO VG | Mobil | Shell |
|-----------|--------|--------|---------------|-----------|
| -30 ~ -15 | HD 150 | VG 150 | Mobilgear 629 | Omala 150 |
| -15 ~ -3 | HD 220 | VG 220 | Mobilgear 630 | Omala 220 |
| -3 ~ 23 | HD 320 | VG 320 | Mobilgear 632 | Omala 320 |
| 23 ~ 40 | HD 460 | VG 460 | Mobilgear 634 | Omala 460 |
| 40 ~ 80 | HD 680 | VG 680 | Mobilgear 636 | Omala 680 |

零件規格 Part Specification ASS · BSS · USS(CTA.CTB.CTU)

| 型號 Type | 入 力 軸 Shaft Input | | | 出 力 軸 Shaft Output | | |
|------------|-------------------|----------------|-----------|--------------------|----------------|--------------------------|
| | 軸承 Bearing | 油封 Oil Seal | 鍵 Key | 軸承 Bearing | 油封 Oil Seal | 鍵 Key |
| 40 | 6202 | 15.25.6 | 4*4*22(單) | 6203 | 17.30.7 | 5*5*30(單) 5*5*26(平) |
| 50 | 6203 | 17.30.7 | 4*4*25(單) | 6204 | 20.35.8 | 5*5*35(單) 7*7*30(平) |
| 60 | 30204 | 20.35.8 | 5*5*35(單) | 6205 | 25.40.8 | 7*7*45(單) 10*8*30(平) |
| 70 | 30205 | 25.40.8 | 5*5*35(單) | 6206 | 30.50.11 | 7*7*55(單) 10*8*45(平) |
| | | | | | | 10*8*60(單) 10*8*50(平) |

| 型號 Type | 入 力 軸 Shaft Input | | | 出 力 軸 Shaft Output | | |
|------------|-------------------|----------------|--------------|--------------------|----------------|------------------------------|
| | 軸承 Bearing | 油封 Oil Seal | 鍵 Key | 軸承 Bearing | 油封 Oil Seal | 鍵 Key |
| 80 | 30206 | 30.50.11 | 7*7*45(單) | 6207 | 35.55.11 | 10*8*60(單) 10*8*50(平) |
| 100 | 30207 | 35.55.11 | 7*7*45(單) | 6208 | 40.62.12 | 10*8*70(單) 12*8*60(平) |
| 120 | 30308 | 40.62.12 | 7*7*60(單) | 6210 | 50.72.12 | 12*8*80(單) 15*10*75(平) |
| 135 | 30309 | 45.68.12 | 10*8*70(單) | 6212 | 60.82.12 | 15*10*90(單) 18*12*80(平) |
| 155 | 30309 | 45.68.12 | 10*8*80(單) | 32213 | 65.88.12 | 15*10*95(單) 20*13*95(平) |
| 175 | 30311 | 50.72.12 | 12*8*80(單) | 32214 | 70.95.13 | 18*12*105(單) 20*13*100(平) |
| 200 | 30311*2 6311 | 52.75.12 | 12*8*90(單) | 32215 | 75.100.13 | 20*13*120(單) 24*16*135(平) |
| 225 | 30312*2 6312 | 57.75.12 | 15*10*90(單) | 32217 | 85.120.13 | 20*13*135(單) 24*16*135(平) |
| 250 | 30313*2 6313 | 62.85.12 | 15*10*105(單) | 32219 | 95.120.13 | 24*16*140(單) 28*18*150(平) |

ESS,VSS(CTE-U,D)

| 型號 Type | 入 力 軸 Shaft Input | | | 出 力 軸 Shaft Output | | |
|------------|-------------------|----------------|--------------|--------------------|----------------|------------------------------|
| | 軸承 Bearing | 油封 Oil Seal | 鍵 Key | 軸承 Bearing | 油封 Oil Seal | 鍵 Key |
| 40 | 6202 | 15.25.6 | 4*4*22(單) | 6203 | 17.30.7 | 5*5*30(單) 5*5*26(平) |
| 50 | 6203 | 17.30.7 | 4*4*25(單) | 30204 | 20.35.8 | 5*5*35(單) 7*7*30(平) |
| 60 | 30204 | 20.35.8 | 5*5*35(單) | 30205 | 25.40.8 | 7*7*45(單) 10*8*30(平) |
| 70 | 30205 | 25.40.8 | 5*5*35(單) | 30206 | 30.50.11 | 7*7*55(單) 10*8*45(平) |
| 80 | 30206 | 30.50.11 | 7*7*45(單) | 30207 | 35.55.11 | 10*8*60(單) 10*8*50(平) |
| 100 | 30207 | 35.55.11 | 7*7*45(單) | 30208 | 40.62.12 | 10*8*70(單) 12*8*60(平) |
| 120 | 30308 | 40.62.12 | 7*7*60(單) | 30210 | 50.72.12 | 12*8*80(單) 15*10*75(平) |
| 135 | 30309 | 45.68.12 | 10*8*70(單) | 30212 | 60.82.12 | 15*10*90(單) 18*12*80(平) |
| 155 | 30309 | 45.68.12 | 10*8*80(單) | 32213 | 65.88.12 | 15*10*95(單) 20*13*95(平) |
| 175 | 30311 | 50.72.12 | 12*8*80(單) | 32214 | 70.95.13 | 18*12*105(單) 20*13*100(平) |
| 200 | 30311*2 6311 | 52.75.12 | 12*8*90(單) | 32215 | 75.100.13 | 20*13*120(單) 24*16*135(平) |
| 225 | 30312*2 6312 | 57.75.12 | 15*10*90(單) | 32217 | 85.120.13 | 20*13*135(單) 24*16*135(平) |
| 250 | 30313*2 6313 | 62.85.12 | 15*10*105(單) | 32219 | 95.120.13 | 24*16*140(單) 28*18*150(平) |

直結式入力軸, 中空型出力軸

| 型號 Type | 直 積 式 入 力 軸 Bore Input | | 中 空 型 出 力 軸 Bore output | | |
|------------|------------------------|----------------------|-------------------------|---------------|----------------|
| | 軸承 Bearing | 油封 Oil Seal | 馬力 Power | 軸承 Bearing | 油封 Oil Seal |
| 40 | 6203 6203NR | 25.35.8 25.35.8 | 1/4HP | 6006 | 30.50.8 |
| 50 | 6202 | 00.35.5 25.35.8 | 1/4HP 1/2HP | 6008 | 40.62.12 |
| 60 | 6005 6204 | 25.38.8 35.42.7 | 1/4HP 1/2HP | 6009 | 45.68.12 |
| 70 | 32004 | 00.40.5 35.42.7 | 1HP | 6010 | 50.72.12 |
| 80 | 30205 | 40.50.8 40.55.8 | 2HP | 6012 | 60.82.12 |
| 100 | 30206 | 40.55.8 48.68.12 | 3HP | 6012 | 60.82.12 |
| 120 | 30308 32210 | 50.72.12 55.75.12 | 5HP | 6214 | 70.95.13 |
| 135 | 30309 32211 | 45.68.12 55.75.12 | 5HP $\frac{1}{2}$ HP | 6219 | 95.120.13 |

(備註：油封規格孔徑00表示為全密油封)



減速機使用說明

壹、安裝

1. 減速機入力軸直接與馬達聯結時，應採彈性聯軸器；出力軸直接與工作機聯結時，宜採用齒輪聯軸器。
2. 減速機應安裝在穩固的基礎座，且須注意空氣流通及換油時，注油及洩油之方便性。
3. 減速機入力軸及馬達出力軸之中心線必須對準確，誤差不得大於所用聯軸器之允許值。
4. 減速機安裝後，用手轉動需靈活，不可有卡死現象。
5. 減速機安裝好，使用前應先進行空負荷運轉，確定機器各部分都無異狀後，方可正式使用，如有故障應先排除。

貳、潤滑

1. 新減速機使用時，於運轉300小時後，需更換新油，其後每使用2500小時需換油；但在使用過程中仍應定期檢查油的質、量，若油有雜質、老化、變質情況，必須隨時更換。
2. 減速機應使用固定品牌、號碼之齒輪油，不應將不同品牌，號碼或不同類型的油相混合使用。
3. 在換油過程中，應先將減速機內部清除乾淨，再注入新油。
4. 在使用期間，當發現油溫過高（超過80°C以上）時，以及有不正常的噪音等現象，應立即停止使用、檢查原因，等排除故障或更換潤滑油後，才可繼續使用。
5. 推薦用油：ISO HD-460極壓機油或中油HD-320之極壓機油，或中油90#多效齒輪油。

參、維護

1. 減速機應定期檢修，發現異狀或有顯著磨損，必須立即採取有效措施制止，備用零件之材質、精度亦須照標準製造。更新零件後，應先進行空負荷運轉，確定正常後再正式使用。
2. 使用單位應建立合理的維護制度，對減速機的使用狀況及檢修中發現的問題，做仔細紀錄。

CHENTA WORM GEAR REDUCERS

I . Installation

1. Input shaft connects to motor directly, a flexible coupling is preferably applied; output shaft connects to machine, it is better to use a gear coupling.
2. Install on a stable foundation and good air ventilation and the convenience of oil filling / draining should be considered.
3. The input shaft of the reducer and the motor shaft should be in alignment and the tolerance should fit the allowance.
4. After installation, please check input shaft by hand first to check whether running smoothly of nut.
5. Before start-up, no-load running test should be proceeded and any abnormal status occurred should be corrected immediately.

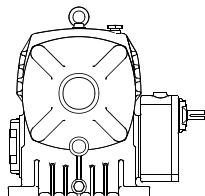
II . Lubrication

1. A new reducer needs replace oil in the beginning of 300 hrs operation; and then, each 2,500 hrs change again. Moreover, a regular oil checking is required and changed necessarily.
2. Please change by equivalent specification of oil and don't mix with other brands of specification of oil.
3. Before changing oil, the inside of reducer should be flushed and drained out, then fill in new oil.
4. During operation, if the heat is over 80 °C or any abnormal noise occurred, please shut down the reducer for checking immediately and start running only after the cause is resolved.
5. Lubricant recommendation: MOBIL gear 632, SHELL omala 320 or MOBIL mobilube HD80W-90, SHELL spirax E.P.90.

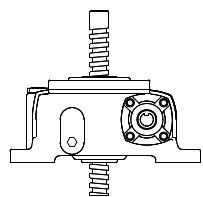
III . Maintenance

1. A regular maintenance is required and if found any worn out, corrective action should be taken. The accuracy of spare parts replaced should be exactly the same as the original standard and no-load running test in advance is required.
2. Build maintenance system and data collection of failure carefully for all problems been met.

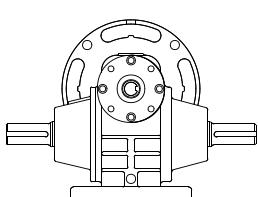
特殊型式簡介（訂單生產）



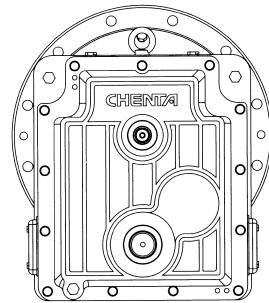
CT-ASG



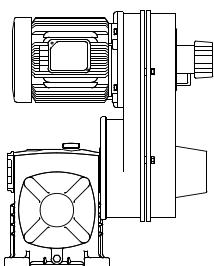
CT-ETS



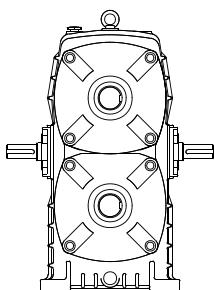
CT-DSM



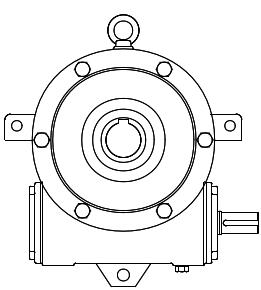
Gearbox of water pump
(Power from diesel engine)
移動式抽水泵浦用齒輪箱



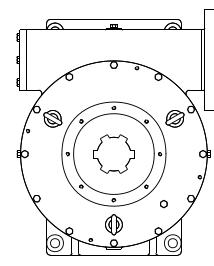
CT-BSV



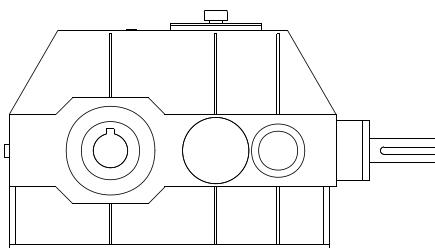
CT-TAB



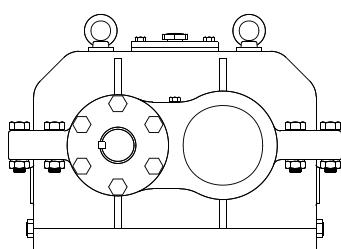
CT-RHS



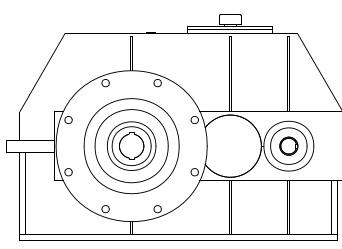
CT-EHM



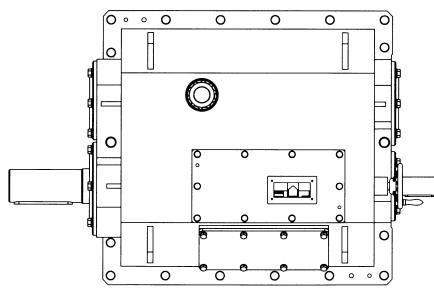
GEAR BOX
BEVEL HELICAL GEAR



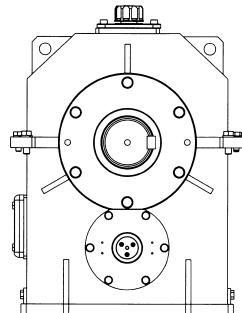
GEAR BOX
HELICAL GEAR



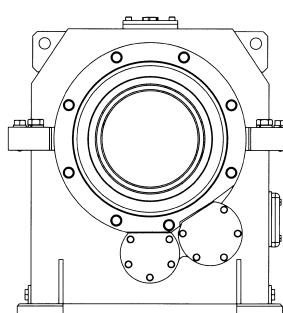
GEAR BOX WITH FLANGE
HELICAL GEAR



Gearbox of wind power generator
風力發電機用變速齒輪箱

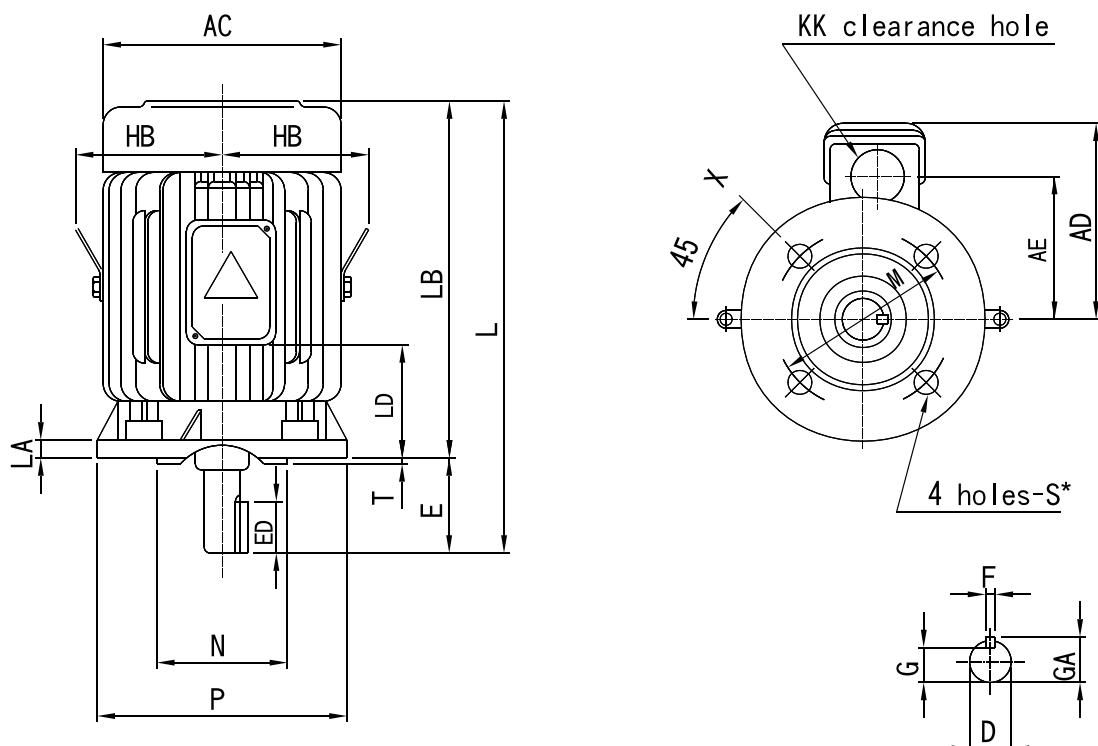


Gear speed increaser
風力發電機用增速機



Gear speed increaser
for wind power generator
(with hollow bore output)
風力發電機用增速機

公制IEC標準馬達尺寸圖(參考用)

IEC STANDARD
Motor Dimensions Reference

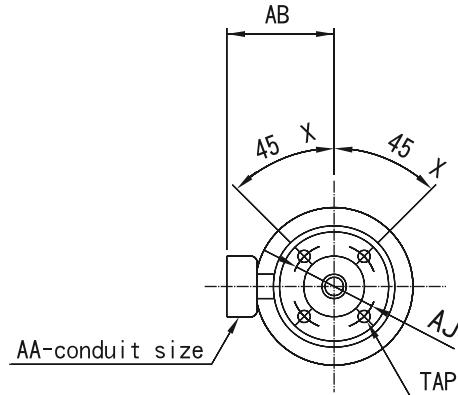
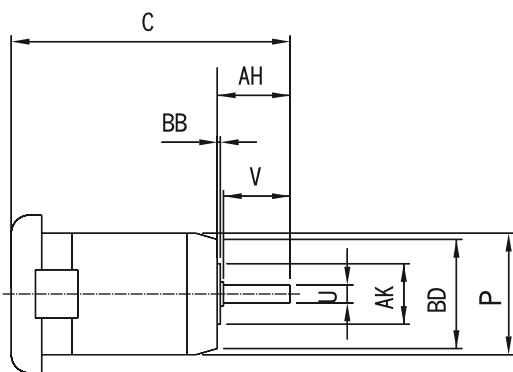
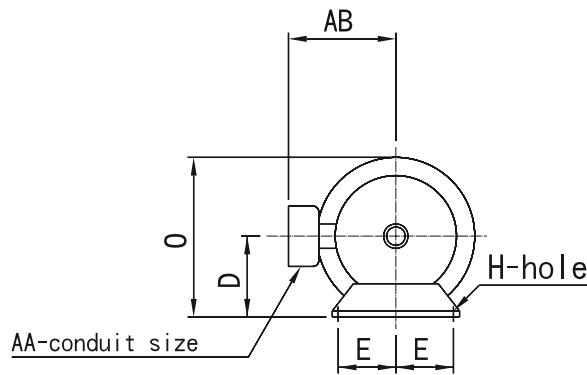
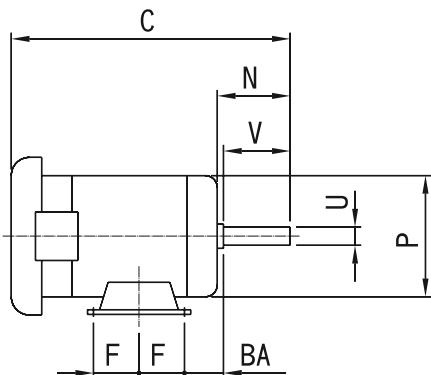
| 輸出 OUTPUT (HP) | | | | 框號 FRAME | | AC | AD | AE | HB | KK | L | LA | LB | LD | M | N | P | S | T | 軸端 END OF SHAFT | | | | | | | | |
|----------------|------|-----|------|----------|---------|-------|--------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|------|------|-----------------|------|-----|------|------|------|------|------|------|
| 2P | 4P | 6P | 8P | 標準 IEC | 東元 TECO | | | | | | | | | | | | | | | D | E | ED | F | G | GA | | | |
| 0.25 | 0.25 | --- | --- | 63 | --- | 144 | 123 | 93 | --- | 22 | 248 | 12 | 225 | 74 | 115 | 95 | 140 | 10 | 3.5 | 11 | 23 | 10 | 4 | 8.5 | 12.5 | | | |
| 0.25 | 0.25 | --- | --- | 63 | --- | 144 | 123 | 93 | --- | 22 | 248 | 12 | 225 | 74 | 130 | 110 | 160 | 10 | 3.5 | 11 | 23 | 10 | 4 | 8.5 | 12.5 | | | |
| 0.5 | 0.5 | --- | --- | 71 | 71 | 162 | 133 | 103 | --- | 22 | 277.5 | 12 | 247.5 | 82 | 130 | 110 | 160 | 10 | 3.5 | 14 | 30 | 14 | 5 | 11.0 | 16.0 | | | |
| 1 | 1 | 0.5 | 0.25 | 80 | 80 | 177 | 144 | 112 | --- | 22 | 282 | 12 | 242 | 60 | 165 | 130 | 200 | 12 | 3.5 | 19 | 40 | 25 | 6 | 15.5 | 21.5 | | | |
| 2 | 3 | 2 | 1 | 90L | 90L | 200 | 157 | 125 | --- | 22 | 371.5 | 12 | 321.5 | 113 | 165 | 130 | 200 | 12 | 3.5 | 24 | 50 | 32 | 8 | 20.0 | 27.0 | | | |
| --- | 3 | 2 | 1 | 100L | 100L | 219 | 180 | 145 | 140 | 28 | 374.5 | 16 | 314.5 | 88 | 215 | 180 | 250 | 14.5 | 4.0 | 28 | 60 | 40 | 8 | 24.0 | 31.0 | | | |
| 5 | 5 | 3 | 2 | 112M | 112M | 238 | 189 | 154 | 150 | 28 | 431 | 16 | 371 | 135 | 215 | 180 | 250 | 14.5 | 4.0 | 28 | 60 | 40 | 8 | 24.0 | 31.0 | | | |
| 7.5 | 10 | 7.5 | 5 | 132S | 132S | 273 | 224 | 180 | 169 | 35 | 454 | 20 | 374 | 97 | 265 | 230 | 300 | 14.5 | 4.0 | 38 | 80 | 56 | 10 | 33.0 | 41.0 | | | |
| --- | 10 | 7.5 | 5 | 132M | 132M | 273 | 224 | 190 | 169 | 35 | 492 | 20 | 412 | 116 | 265 | 230 | 300 | 14.5 | 4.0 | 38 | 80 | 56 | 10 | 33.0 | 41.0 | | | |
| 15 | 20 | 15 | 10 | 7.5 | 160M | 160M | 334 | 263 | 218 | 217 | 35 | 608 | 20 | 498 | 151 | 300 | 250 | 350 | 18.5 | 5.0 | 42 | 110 | 80 | 12 | 37.0 | 45.0 | | |
| 25 | 20 | 15 | 10 | 160L | 160L | 334 | 263 | 218 | 217 | 35 | 652 | 20 | 542 | 173 | 300 | 250 | 350 | 18.5 | 5.0 | 42 | 110 | 80 | 12 | 37.0 | 45.0 | | | |
| 30 | --- | --- | --- | 180MA | 382 | 305 | 250 | 241 | 52 | 672 | 20 | 562 | 170.5 | 350 | 300 | 400 | 18.5 | 5.0 | 48 | 110 | 80 | 14 | 42.5 | 51.5 | | | | |
| --- | 25 | 30 | 20 | 180MC | 382 | 305 | 250 | 241 | 52 | 672 | 20 | 562 | 170.5 | 350 | 300 | 400 | 18.5 | 5.0 | 48 | 110 | 80 | 14 | 42.5 | 51.5 | | | | |
| --- | 25 | 20 | 15 | 180M | --- | 382 | 304 | 250 | 241 | 52 | 672 | 20 | 562 | 170.5 | 300 | 250 | 350 | 18.5 | 5.0 | 48 | 110 | 80 | 14 | 42.5 | 51.5 | | | |
| --- | 30 | 25 | 20 | 180L | --- | 382 | 304 | 250 | 241 | 52 | 672 | 20 | 562 | 170.5 | 300 | 250 | 350 | 18.5 | 5.0 | 48 | 110 | 80 | 14 | 42.5 | 51.5 | | | |
| 40 | --- | --- | --- | 180LA | 382 | 305 | 250 | 241 | 52 | 710 | 20 | 600 | 189.5 | 350 | 300 | 400 | 18.5 | 5.0 | 55 | 110 | 80 | 16 | 49.5 | 59.5 | | | | |
| 50 | 40 | 25 | 30 | 20 | 200L | 180LC | 382 | 305 | 250 | 241 | 52 | 710 | 20 | 600 | 189.5 | 350 | 300 | 400 | 18.5 | 5.0 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | | |
| 50 | 60 | --- | --- | --- | 225M | 200LA | 458 | 362 | 299 | 286 | 65 | 774.5 | 20 | 664.5 | 194.5 | 400 | 350 | 450 | 18.5 | 5.0 | 55 | 110 | 80 | 16 | 49.0 | 59.5 | | |
| --- | 50 | 60 | 40 | 50 | 30 | 40 | 225S/M | 200LC | 458 | 362 | 299 | 286 | 65 | 804.5 | 20 | 664.5 | 194.5 | 400 | 350 | 450 | 18.5 | 5.0 | 60 | 140 | 110 | 18 | 53.0 | 64.0 |
| 75 | --- | --- | --- | --- | 225SA | 510 | 411 | 337 | 312 | 92 | 786 | 22 | 676 | 190 | 500 | 450 | 500 | 18.5 | 5.0 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | | | |
| --- | 75 | 60 | 50 | 250M | 225SC | 510 | 411 | 337 | 312 | 92 | 816 | 22 | 676 | 190 | 500 | 450 | 550 | 18.5 | 5.0 | 65 | 140 | 110 | 18 | 58.0 | 69.0 | | | |
| 100 | --- | --- | --- | --- | 250SA | 545 | 499 | 384 | 329.5 | 92 | 882.5 | 22 | 742.5 | 182.5 | 500 | 450 | 550 | 18.5 | 5.0 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | | | |
| --- | 100 | 75 | 60 | 280S | 250SC | 545 | 499 | 384 | 329.5 | 92 | 882.5 | 22 | 742.5 | 182.5 | 500 | 450 | 550 | 18.5 | 5.0 | 75 | 140 | 110 | 20 | 67.5 | 79.5 | | | |
| 125 | --- | --- | --- | --- | 250MA | 545 | 499 | 384 | 329.5 | 92 | 890.5 | 22 | 780.5 | 201.5 | 500 | 450 | 550 | 18.5 | 5.0 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | | | |
| --- | 125 | 100 | 75 | 280M | 250MC | 545 | 499 | 384 | 329.5 | 92 | 920.5 | 22 | 780.5 | 201.5 | 500 | 450 | 550 | 18.5 | 5.0 | 75 | 140 | 110 | 20 | 67.5 | 79.5 | | | |

*註："S"，東元≤180LC為4孔，≥200LC為8孔。

標準 IEC≤132M為4孔，≥160L為8孔。

美制NEMA標準馬達尺寸圖(參考用)

NEMA STANDARD Motor Dimensions Reference



| NEMA FRAME | D | E | F | H | MIN N | D | P | U | MIN V | AA | AB | AH | AJ | AK | BA | BB | BD | TAP | |
|------------------------------|-------|--------|----------------------------------|------------|-------|---------|---------|-------|-------|-----|-------|---------|-------|-------|-------|-------|-------|--------|--------|
| 48 | 3 | 2-1/8 | 1-3/8 | 11/32 SLOT | 1-7/8 | 5-7/8 | 5-11/16 | 1/2 | 1-1/2 | 1/2 | 4-3/8 | 1-11/16 | 3-3/4 | 3 | 2-1/2 | 5/32 | 5-5/8 | 1/2-20 | |
| 56 | 3-1/2 | 2-7/16 | 1-1/2 | 11/32 SLOT | 2-1/4 | 6-7/8 | 6-5/8 | 5/8 | 1-7/8 | 1/2 | 5 | 2-1/16 | 5-7/8 | 4-1/2 | 2-3/4 | 5/32 | 6-1/2 | 3/8-16 | |
| 143T 145T | 3-1/2 | 2-3/4 | 2-1/2 | 11/32 | 2 | 6-7/8 | 6-5/8 | 7/8 | 2 | 3/4 | 5-1/4 | 2-1/8 | 5-7/8 | 4-1/2 | 2-1/4 | 5/32 | 6-1/2 | 3/8-16 | |
| 182 184 182T 184T | 4-1/4 | 3-3/4 | 2-1/4 2-3/4 2-1/4 2-3/4 | 13/32 | 2 | 8-11/16 | 7-7/8 | 7/8 | 2 | 3/4 | 5-7/8 | 2-1/8 | 5-7/8 | 4-1/2 | 2-3/4 | 5/32 | 6-1/2 | 3/8-16 | |
| 213 215 213T 215T | 5-1/4 | 4-1/4 | 2-3/4 3-1/2 2-3/4 3-1/2 | 13/32 | 3-3/8 | 10-1/4 | 9-9/16 | 1-1/8 | 2-3/4 | 3/4 | 7-3/8 | 3-3/8 | 3 | 7-1/4 | 8-1/2 | 3-1/2 | 1/4 | 9 | 1/2-13 |
| 254U 256U 254T 256T | 6-1/4 | 5 | 4-1/8 5 4-1/8 5 | 17/32 | 4-1/4 | 13 | 13-1/2 | 1-3/8 | 3-1/2 | 1 | 9-5/8 | 4 | 3-3/4 | 7-1/4 | 8-1/2 | 4-1/4 | 1/4 | 10 | 1/2-13 |



CHENRAI



CHENRAI



CHENRAI



CHENRAI



CHENRAI



CHENRAI



CHENRAI



CHENRAI