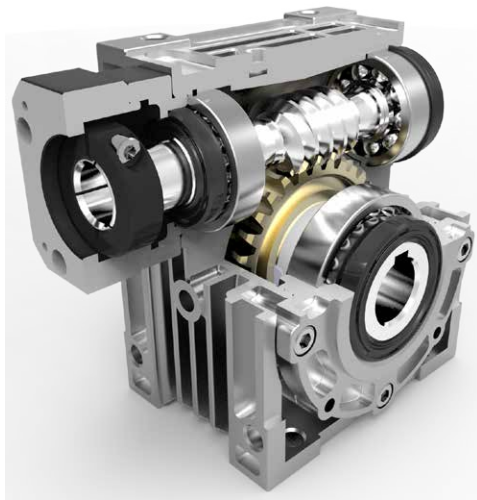


WE series



- 全系列小於 8 弧分
Backlash ≤ 8 arcmin

適用於精密定位、連續運轉時，需注意減速機表面溫度，不超出 90°C 以上。
Suitable for precision positioning. If operated continuously, be mindful of the surface temperature of the reducer, ensuring it does not exceed 90° C."

Indication of Model Numbers

機種型號表示

| WE | N | | 60 | 30 | L | MOTOR |
|---------------|--|--|----------------------------|---|-------------------------|--------------------|
| 減速機機型 Type | 出力軸 Output Shaft | 出力法蘭 Output Flange | 型號 Model | 速比 Ratio | 軸向 Shaft Dirction | 馬達型號 Motor Type |
| WE | S: 實心軸 Solid O: 中空軸 Hollow N: 免鍵軸套 Clamping | <input type="checkbox"/> 無 None F: 出力法蘭 Output Flange | 30 40 50 60 70 | 1/5 1/10 1/15 1/20 1/30 1/40 1/50 1/60 | R L | |

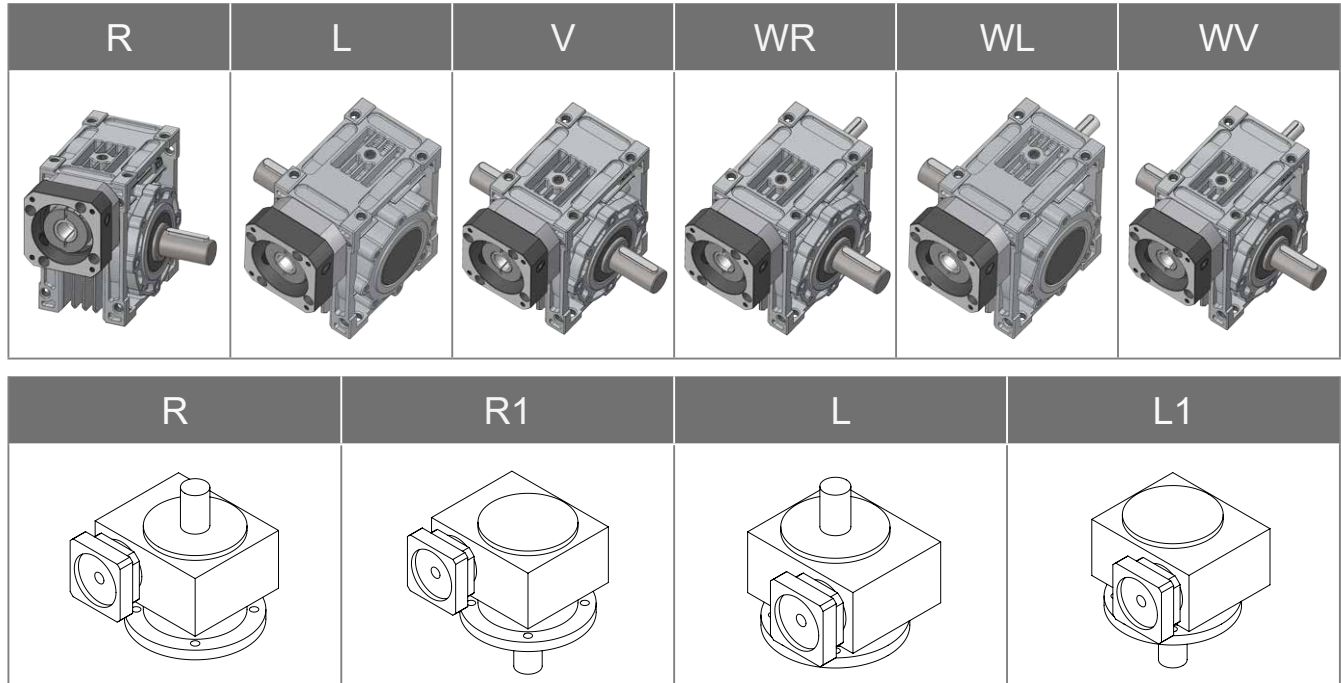
| WE 系列 WE Series | | |
|-----------------|----------------|---------------|
| Model | 油量 Volume (cc) | 油重 Volume (g) |
| 30# | 30 cc | 25 g |
| 40# | 70 cc | 70 g |
| 50# | 140 cc | 150 g |
| 60# | 260 cc | 285 g |
| 70# | 360 cc | 390 g |

Characteristic of WE Series

WE 系列產品特性

Shaft Direction

軸向



R: 右軸 (腳座貼地面·輸入端面向自己·此時輸出端位於右側)

L: 左軸 (腳座貼地面·輸入端面向自己·此時輸出端位於左側)

W: 雙入力軸單出力軸

WV: 雙入力軸和雙出力軸

S: 特殊軸 (訂貨時請註明或附圖面)

R: Right Shaft (when facing input shaft and foot on the ground, output shaft is on the right)

L: Left Shaft (when facing input shaft and foot on the ground, output shaft is on the left)

W: Double Input Shaft & Single Output Shaft

WV: Double Input Shaft & Single Output Shaft

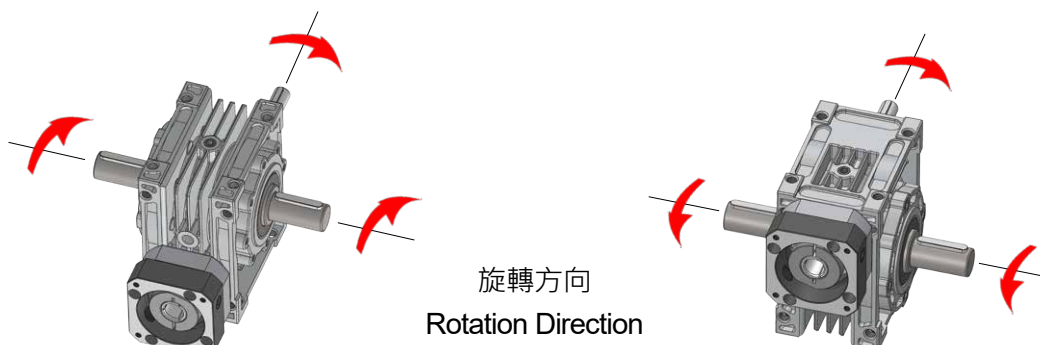
S: Special shaft (Please specify your need clearly or attach drawing)

Rotary Direction

旋向

設計上蝸桿使用右旋牙·故入力軸以順時針方向旋轉時·出力軸以逆時針方向旋轉·如需特殊旋向時請註明·

Upper worm for right-directed thread, so the input shaft is rotating clockwise and the output shaft counterclockwise; for any rotating direction required, be sure to specify it.



Characteristic of WE Series

WE 系列產品特性

WE



WES

○實心軸 Solid output shaft



WESF

○實心軸 Solid output shaft



WEO

○中空軸 Hollow output shaft



WEOF

○中空軸 Hollow output shaft



WEN

○中空軸免鍵式 Clamping output shaft



WENF

○中空軸免鍵式 Clamping output shaft

Characteristic of WE Series

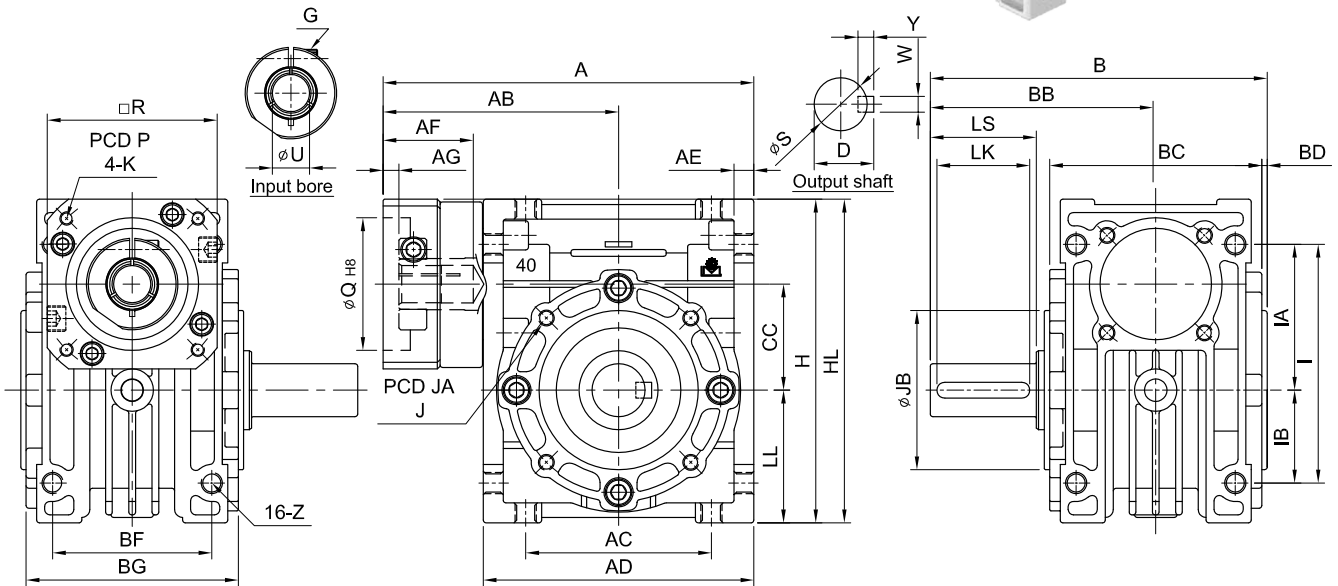
WE 系列產品特性

WE

| 規格 Parameter | Code | Unit | Ratio | 30 | 40 | 50 | 60 | 70 |
|---|------------|--------|-------|---|-------|-------|-------|-------|
| 額定輸出扭矩 / Rated Output Torque (Nominal output torque) | T_{2N} | Nm | 5 | 8.3 | 22.3 | 30.6 | 41.2 | 70.6 |
| | | | | 90.3 | 92.3 | 92.6 | 92.6 | 93.6 |
| / | | | 10 | 8.8 | 20.7 | 41.9 | 65.9 | 92 |
| | | | | 83.7 | 86.6 | 89.6 | 90.1 | 90.5 |
| 效 率 / Efficiency | η | % | 15 | 11.4 | 26.2 | 40.9 | 64.5 | 90 |
| | | | | 81.9 | 83.7 | 85.3 | 86.1 | 86.6 |
| | | | 20 | 9.52 | 22.6 | 40.7 | 63.5 | 106.1 |
| | | | | 72.3 | 76.6 | 81.7 | 82.4 | 85.1 |
| | | | 30 | 12.1 | 27.4 | 43.2 | 67.9 | 95 |
| | | | | 69.6 | 72.3 | 74.5 | 75.9 | 76.7 |
| | | | 40 | 9.2 | 24.3 | 43.8 | 69.1 | 111 |
| | | | | 56.8 | 66.3 | 69.2 | 70.3 | 74.3 |
| | | | 50 | 10.4 | 24 | 43.6 | 69.2 | 105.6 |
| | | | | 58.7 | 64.6 | 67.7 | 68.9 | 71.2 |
| | | | 60 | 9.6 | 20.5 | 36.1 | 58.3 | 100.5 |
| | | | | 54.6 | 56.8 | 59.3 | 61.3 | 68.8 |
| 最大輸出扭矩 / Max. Output Torque 急停扭矩 / Emergency Stop Torque | T_{2NOT} | Nm | 5~60 | 2 倍額定輸出扭矩 2 Times of Rated Output Torque | | | | |
| 額定輸入轉速 / Rated Input Speed | n_{1N} | rpm | 5~60 | 2,000 | | | | |
| 最大輸入轉速 / Max. Input Speed | n_{1B} | rpm | 5~60 | 3,000 | | | | |
| 背 隙 / Backlash Ps | | arcmin | 5~60 | ≤ 8 | | | | |
| 容許徑向力 / Max. Radial Force | F_{2rB} | N | 5~60 | 1,830 | 3,490 | 4,840 | 6,270 | 7,380 |
| 容許軸向力 / Max. Axial Force | F_{2aB} | N | 5~60 | 915 | 1,745 | 2,420 | 3,135 | 3,690 |
| 使用壽命 / Service Life | L_H | hr | 5~60 | S5 周期運轉: >12,000 (S1 連續運轉: >6,000hrs) S5 Cycle Operation: >12,000 (S1 Continuous Operation: >6,000hrs) | | | | |
| 使用溫度 / Operating Temperature | | °C | 5~60 | -15° C ~ +90° C | | | | |
| 潤 滑 / Lubrication | | | 5~60 | 全合成潤滑油 Synthetic Oil | | | | |
| 防護等級 / Protection Class | | | 5~60 | IP65 | | | | |
| 安裝方向 / Mounting Position | | | 5~60 | 任意方向 Any | | | | |

WES series

RATIO : 5.10.15.20.30.40.50.60



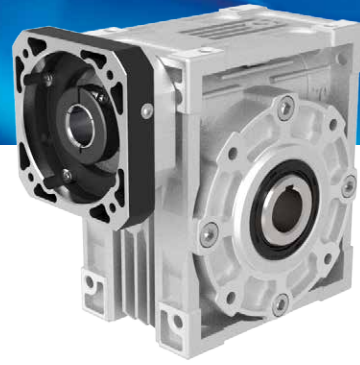
| Code Model | A | AB | AC | AD | AE | AF | AG | B | BB | BC | BD | BF | BG | CC | LL | I | IA | IB | Z | H | Weight (kg) |
|---------------|-----|-----|-----|-----|-----|----|----|------|------|-----|----|----|-----|----|----|-----|----|----|-----|-----|-------------|
| 30 | 108 | 68 | 55 | 80 | 6 | 32 | 5 | 99.5 | 67.5 | 60 | 2 | 45 | 58 | 30 | 40 | 72 | 45 | 27 | M6 | 98 | 1.4 |
| 40 | 140 | 89 | 70 | 102 | 7.5 | 34 | 6 | 127 | 85 | 80 | 2 | 60 | 72 | 40 | 50 | 90 | 55 | 35 | M8 | 122 | 2.6 |
| 50 | 158 | 98 | 80 | 120 | 8.5 | 41 | 6 | 150 | 100 | 94 | 3 | 70 | 85 | 50 | 60 | 105 | 65 | 40 | M10 | 145 | 4.7 |
| 60 | 195 | 122 | 100 | 146 | 10 | 59 | 9 | 159 | 105 | 102 | 3 | 85 | 103 | 60 | 75 | 136 | 83 | 53 | M10 | 180 | 7.5 |
| 70 | 219 | 134 | 120 | 170 | 12 | 59 | 9 | 187 | 125 | 118 | 3 | 90 | 110 | 70 | 85 | 150 | 90 | 60 | M10 | 200 | 10.6 |

unit : mm

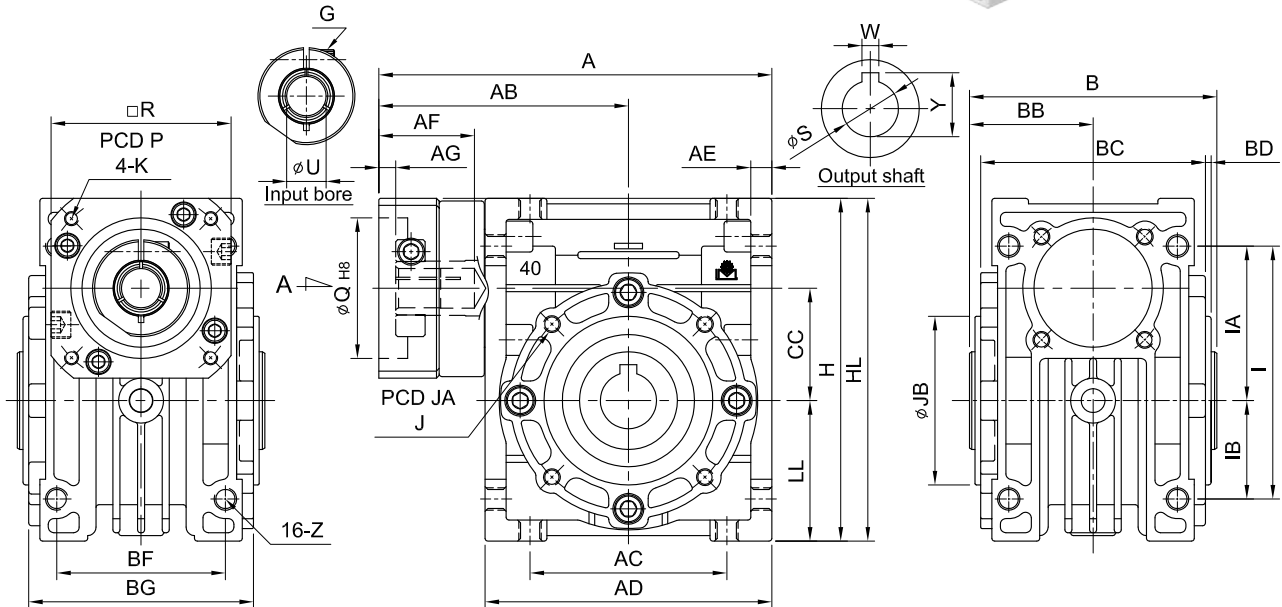
| Code | Model | 30 | 40 | 50 | 60 | 70 |
|---------------------------|-------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| OUTPUT SHAFT | S | 16 | 20 | 25 | 25 | 30 |
| | Y | 5 | 6 | 7 | 7 | 7 |
| | W | 5 | 6 | 8 | 8 | 8 |
| | D | 18 | 22.5 | 28 | 28 | 33 |
| | LS | 35 | 40 | 50 | 50 | 60 |
| | LK | 30 | 35 | 45 | 45 | 55 |
| | J | 8-M6 x P1.0 | 12-M6 x P1.0 | 12-M6 x P1.0 | 12-M8 x P1.25 | 12-M10 x P1.5 |
| | JA | 65 | 77 | 95 | 120 | 140 |
| | JB | 55 | 60 | 70 | 80 | 90 |
| MOTOR FLANGE & INPUT BORE | P | 46、60、63 | 70、75、90 | 70、75、90 | 90、100、115、145 | 90、100、115、145 |
| | K | M3 x P0.5 M4 x P0.7 M5 x P0.8 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M5 x P0.8 M6 x P1.0 M8 x P1.25 | M5 x P0.8 M6 x P1.0 M8 x P1.25 |
| | R | 46、55 | 64、70、80 | 64、70、80 | 92、110、130 | 92、110、130 |
| | G | M4 x P0.7 | M5 x P0.8 | M5 x P0.8 | M6 x P1.0 | M6 x P1.0 |
| | Q | 30、40、50 | 50、60、70 | 50、60、70 | 70、80、95、110 | 70、80、95、110 |
| | U | 8 | 14 | 19 | 24 | 24 |
| | HL | 100 | 122、125、130 | 145、150 | 181、190、200 | 210、220 |

WEO series

RATIO : 5.10.15.20.30.40.50.60



WE



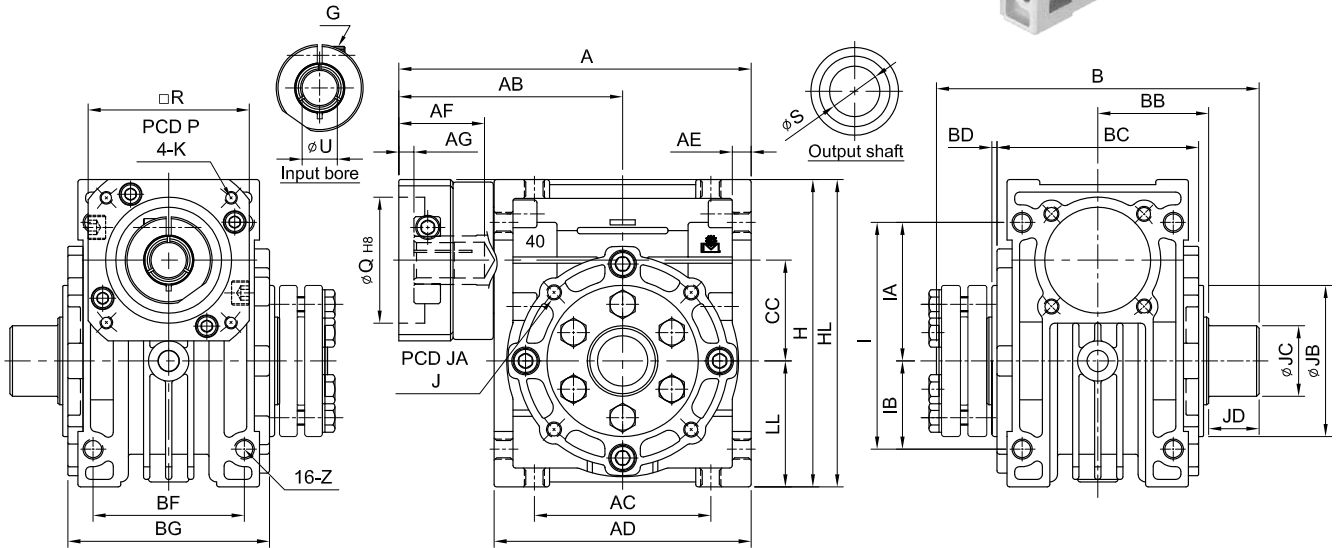
| Code Model | A | AB | AC | AD | AE | AF | AG | B | BB | BC | BD | BF | BG | CC | LL | I | IA | IB | Z | H | Weight (kg) |
|---------------|-----|-----|-----|-----|-----|----|----|-----|------|-----|----|----|-----|----|----|-----|----|----|-----|-----|-------------|
| 30 | 108 | 68 | 55 | 80 | 6 | 32 | 5 | 65 | 32.5 | 60 | 2 | 45 | 58 | 30 | 40 | 72 | 45 | 27 | M6 | 98 | 1.3 |
| 40 | 140 | 89 | 70 | 102 | 7.5 | 34 | 6 | 88 | 44 | 80 | 2 | 60 | 72 | 40 | 50 | 90 | 55 | 35 | M8 | 122 | 2.5 |
| 50 | 158 | 98 | 80 | 120 | 8.5 | 41 | 6 | 98 | 50 | 94 | 3 | 70 | 85 | 50 | 60 | 105 | 65 | 40 | M10 | 145 | 4 |
| 60 | 195 | 122 | 100 | 146 | 10 | 59 | 9 | 108 | 54 | 102 | 3 | 85 | 103 | 60 | 75 | 136 | 83 | 53 | M10 | 180 | 6.7 |
| 70 | 219 | 134 | 120 | 170 | 12 | 59 | 9 | 128 | 64 | 118 | 3 | 90 | 110 | 70 | 85 | 150 | 90 | 60 | M10 | 200 | 9 |

unit : mm

| Code | Model | 30 | 40 | 50 | 60 | 70 |
|---------------------------|-------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| OUTPUT SHAFT | S | 14 | 20 | 25 | 25 | 30 |
| | Y | 16.3 | 22.8 | 28.3 | 28.3 | 33.3 |
| | W | 5 | 6 | 8 | 8 | 8 |
| | J | 8-M6 x P1.0 | 12-M6 x P1.0 | 12-M6 x P1.0 | 12-M8 x P1.25 | 12-M10 x P1.5 |
| | JA | 65 | 77 | 95 | 120 | 140 |
| | JB | 55 | 60 | 70 | 80 | 90 |
| MOTOR FLANGE & INPUT BORE | P | 46、60、63 | 70、75、90 | 70、75、90 | 90、100、115、145 | 90、100、115、145 |
| | K | M3 x P0.5 M4 x P0.7 M5 x P0.8 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M5 x P0.8 M6 x P1.0 M8 x P1.25 | M5 x P0.8 M6 x P1.0 M8 x P1.25 |
| | R | 46、55 | 64、70、80 | 64、70、80 | 92、110、130 | 92、110、130 |
| | G | M4 x P0.7 | M5 x P0.8 | M5 x P0.8 | M6 x P1.0 | M6 x P1.0 |
| | Q | 30、40、50 | 50、60、70 | 50、60、70 | 70、80、95、110 | 70、80、95、110 |
| | U | 8 | 14 | 19 | 24 | 24 |
| | HL | 100 | 122、125、130 | 145、150 | 181、190、200 | 210、220 |

WEN series

RATIO : 5.10.15.20.30.40.50.60



| Code Model | A | AB | AC | AD | AE | AF | AG | B | BB | BC | BD | BF | BG | CC | LL | I | IA | IB | Z | H | Weight (kg) |
|---------------|-----|-----|-----|-----|-----|----|----|-----|----|-----|----|----|-----|----|----|-----|----|----|-----|-----|----------------|
| 30 | 108 | 68 | 55 | 80 | 6 | 32 | 5 | 108 | 36 | 60 | 2 | 45 | 58 | 30 | 40 | 72 | 45 | 27 | M6 | 98 | 1.6 |
| 40 | 140 | 89 | 70 | 102 | 7.5 | 34 | 6 | 128 | 46 | 80 | 2 | 60 | 72 | 40 | 50 | 90 | 55 | 35 | M8 | 122 | 2.8 |
| 50 | 158 | 98 | 80 | 120 | 8.5 | 41 | 6 | 146 | 53 | 94 | 3 | 70 | 85 | 50 | 60 | 105 | 65 | 40 | M10 | 145 | 4.3 |
| 60 | 195 | 122 | 100 | 146 | 10 | 59 | 9 | 154 | 57 | 102 | 3 | 85 | 103 | 60 | 75 | 136 | 83 | 53 | M10 | 180 | 7 |
| 70 | 219 | 134 | 120 | 170 | 12 | 59 | 9 | 172 | 65 | 118 | 3 | 90 | 110 | 70 | 85 | 150 | 90 | 60 | M10 | 200 | 10.6 |

unit : mm

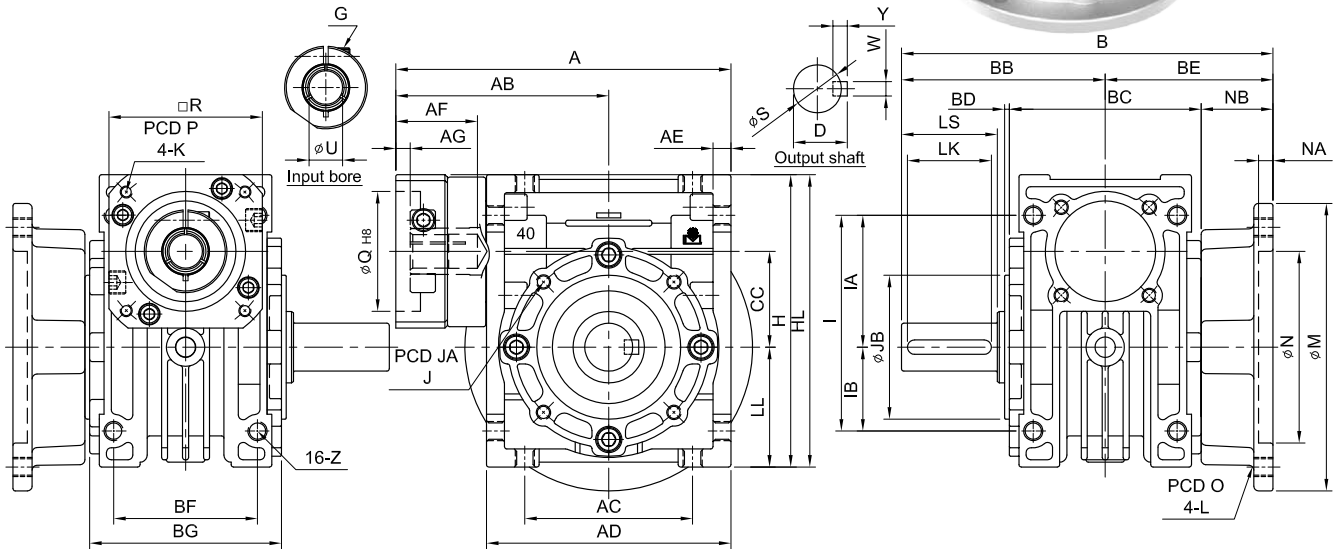
| Code | Model | 30 | 40 | 50 | 60 | 70 |
|---------------------------|-------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| OUTPUT SHAFT | S | 14 | 20 | 25 | 25 | 30 |
| | J | 8-M6 x P1.0 | 12-M6 x P1.0 | 12-M6 x P1.0 | 12-M8 x P1.25 | 12-M10 x P1.5 |
| | JA | 65 | 77 | 95 | 120 | 140 |
| | JB | 55 | 60 | 70 | 80 | 90 |
| | JC | 22 | 28 | 34 | 35 | 40 |
| | JD | 18 | 18 | 20 | 20 | 21 |
| MOTOR FLANGE & INPUT BORE | P | 46、60、63 | 70、75、90 | 70、75、90 | 90、100、115、145 | 90、100、115、145 |
| | K | M3 x P0.5 M4 x P0.7 M5 x P0.8 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M5 x P0.8 M6 x P1.0 M8 x P1.25 | M5 x P0.8 M6 x P1.0 M8 x P1.25 |
| | R | 46、55 | 64、70、80 | 64、70、80 | 92、110、130 | 92、110、130 |
| | G | M4 x P0.7 | M5 x P0.8 | M5 x P0.8 | M6 x P1.0 | M6 x P1.0 |
| | Q | 30、40、50 | 50、60、70 | 50、60、70 | 70、80、95、110 | 70、80、95、110 |
| | U | 8 | 14 | 19 | 24 | 24 |
| | HL | 100 | 122、125、130 | 145、150 | 181、190、200 | 210、220 |

WESF series

RATIO : 5.10.15.20.30.40.50.60



WE



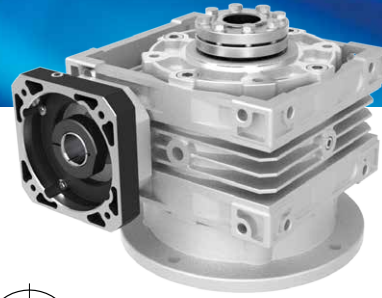
| Code / Model | A | AB | AC | AD | AE | AF | AG | B | BB | BC | BD | BE | BF | BG | NB | CC | LL | I | IA | IB | Z | H | Weight (kg) |
|--------------|-----|-----|-----|-----|-----|----|----|-------|------|-----|----|-----|----|-----|----|----|----|-----|----|----|-----|-----|-------------|
| 30 | 108 | 68 | 55 | 80 | 6 | 32 | 5 | 127.5 | 67.5 | 60 | 2 | 60 | 45 | 58 | 30 | 30 | 40 | 72 | 45 | 27 | M6 | 98 | 1.5 |
| 40 | 140 | 89 | 70 | 102 | 7.5 | 34 | 6 | 155 | 85 | 80 | 2 | 70 | 60 | 72 | 30 | 40 | 50 | 90 | 55 | 35 | M8 | 122 | 2.8 |
| 50 | 158 | 98 | 80 | 120 | 8.5 | 41 | 6 | 180 | 100 | 94 | 3 | 80 | 70 | 85 | 33 | 50 | 60 | 105 | 65 | 40 | M10 | 145 | 5 |
| 60 | 195 | 122 | 100 | 146 | 10 | 59 | 9 | 205 | 105 | 102 | 3 | 100 | 85 | 103 | 49 | 60 | 75 | 136 | 83 | 53 | M10 | 180 | 8 |
| 70 | 219 | 134 | 120 | 170 | 12 | 59 | 9 | 225 | 125 | 118 | 3 | 100 | 90 | 110 | 41 | 70 | 85 | 150 | 90 | 60 | M10 | 200 | 11.6 |

unit : mm

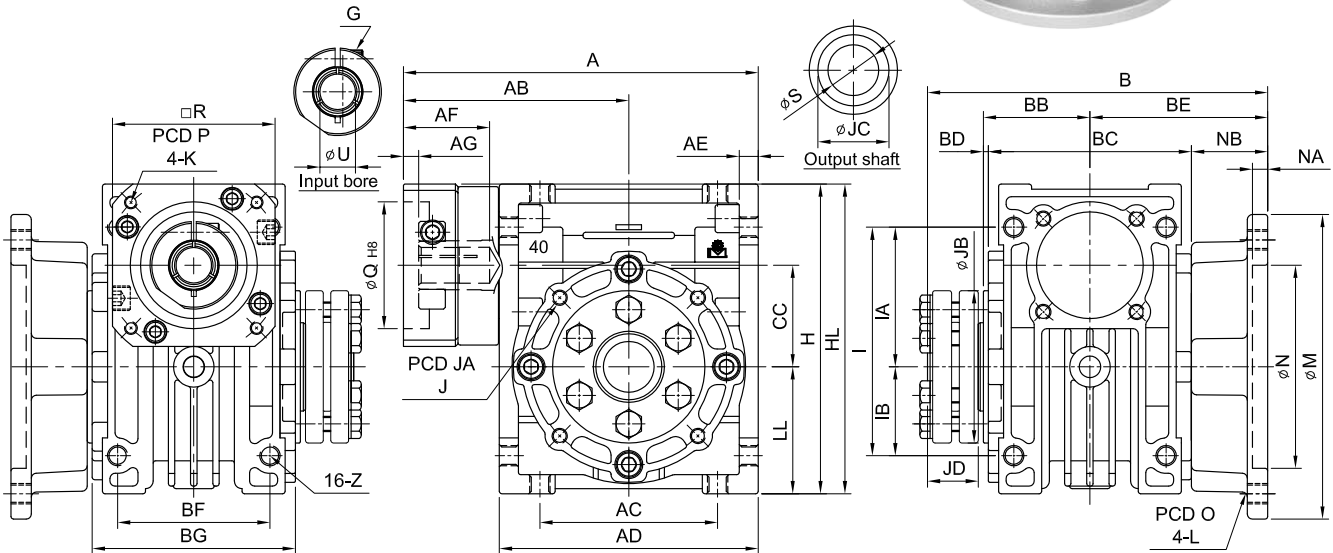
| Code / Model | 30 | 40 | 50 | 60 | 70 | |
|---------------------------|----|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| OUTPUT SHAFT | S | 16 | 20 | 25 | 30 | |
| | Y | 5 | 6 | 7 | 7 | |
| | W | 5 | 6 | 8 | 8 | |
| | D | 18 | 22.5 | 28 | 28 | 33 |
| | LS | 35 | 40 | 50 | 50 | 60 |
| | LK | 30 | 35 | 45 | 45 | 55 |
| | J | 8-M6 x P1.0 | 12-M6 x P1.0 | 12-M6 x P1.0 | 12-M8 x P1.25 | 12-M10 x P1.5 |
| | JA | 65 | 77 | 95 | 120 | 140 |
| | JB | 55 | 60 | 70 | 80 | 90 |
| | N | 70 | 80 | 95 | 130 | 150 |
| | NA | 5 | 6 | 6 | 7 | 7 |
| | O | 85 | 100 | 120 | 160 | 185 |
| | L | M6 x P1.0 | M8 x P1.25 | M10 x P1.5 | M10 x P1.5 | M12 x P1.75 |
| | M | 100 | 120 | 140 | 180 | 210 |
| MOTOR FLANGE & INPUT BORE | P | 46、60、63 | 70、75、90 | 70、75、90 | 90、100、115、145 | 90、100、115、145 |
| | K | M3 x P0.5 M4 x P0.7 M5 x P0.8 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M5 x P0.8 M6 x P1.0 M8 x P1.25 | M5 x P0.8 M6 x P1.0 M8 x P1.25 |
| | R | 46、55 | 64、70、80 | 64、70、80 | 92、110、130 | 92、110、130 |
| | G | M4 x P0.7 | M5 x P0.8 | M5 x P0.8 | M6 x P1.0 | M6 x P1.0 |
| | Q | 30、40、50 | 50、60、70 | 50、60、70 | 70、80、95、110 | 70、80、95、110 |
| | U | 8 | 14 | 19 | 24 | 24 |
| | HL | 100 | 122、125、130 | 145、150 | 181、190、200 | 210、220 |

WENF series

RATIO : 5.10.15.20.30.40.50.60



WE



| Code Model | A | AB | AC | AD | AE | AF | AG | B | BB | BC | BD | BE | BF | BG | NB | CC | LL | I | IA | IB | Z | H | Weight (kg) |
|---------------|-----|-----|-----|-----|-----|----|----|-----|------|-----|----|-----|----|-----|----|----|----|-----|----|----|-----|-----|----------------|
| 30 | 108 | 68 | 55 | 80 | 6 | 32 | 5 | 114 | 32.5 | 60 | 2 | 60 | 45 | 58 | 30 | 30 | 40 | 72 | 45 | 27 | M6 | 98 | 1.7 |
| 40 | 140 | 89 | 70 | 102 | 7.5 | 34 | 6 | 134 | 44 | 80 | 2 | 70 | 60 | 72 | 30 | 40 | 50 | 90 | 55 | 35 | M8 | 122 | 2.9 |
| 50 | 158 | 98 | 80 | 120 | 8.5 | 41 | 6 | 153 | 49 | 94 | 3 | 80 | 70 | 85 | 33 | 50 | 60 | 105 | 65 | 40 | M10 | 145 | 4.6 |
| 60 | 195 | 122 | 100 | 146 | 10 | 59 | 9 | 177 | 54 | 102 | 3 | 100 | 85 | 103 | 49 | 60 | 75 | 136 | 83 | 53 | M10 | 180 | 7.5 |
| 70 | 219 | 134 | 120 | 170 | 12 | 59 | 9 | 186 | 64 | 118 | 3 | 100 | 90 | 110 | 41 | 70 | 85 | 150 | 90 | 60 | M10 | 200 | 11.6 |

unit : mm

| Code | Model | 30 | 40 | 50 | 60 | 70 |
|--------------|---------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| OUTPUT SHAFT | S | 14 | 20 | 25 | 25 | 30 |
| | J | 8-M6 x P1.0 | 12-M6 x P1.0 | 12-M6 x P1.0 | 12-M8 x P1.25 | 12-M10 x P1.5 |
| | JA | 65 | 77 | 95 | 120 | 140 |
| | JB | 55 | 60 | 70 | 80 | 90 |
| | JC | 22 | 28 | 34 | 35 | 40 |
| | JD | 20 | 20 | 21 | 21 | 22 |
| | N | 70 | 80 | 95 | 130 | 150 |
| | NA | 5 | 6 | 6 | 7 | 7 |
| | O | 85 | 100 | 120 | 160 | 185 |
| | L | M6 x P1.0 | M8 x P1.25 | M10 x P1.5 | M10 x P1.5 | M12 x P1.75 |
| | M | 100 | 120 | 140 | 180 | 210 |
| | MOTOR FLANGE & INPUT BORE | P | 46、60、63 | 70、75、90 | 70、75、90 | 90、100、115、145 |
| K | | M3 x P0.5 M4 x P0.7 M5 x P0.8 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M4 x P0.7 M5 x P0.8 M6 x P1.0 | M5 x P0.8 M6 x P1.0 M8 x P1.25 | M5 x P0.8 M6 x P1.0 M8 x P1.25 |
| R | | 46、55 | 64、70、80 | 64、70、80 | 92、110、130 | 92、110、130 |
| G | | M4 x P0.7 | M5 x P0.8 | M5 x P0.8 | M6 x P1.0 | M6 x P1.0 |
| Q | | 30、40、50 | 50、60、70 | 50、60、70 | 70、80、95、110 | 70、80、95、110 |
| U | | 8 | 14 | 19 | 24 | 24 |
| HL | | 100 | 122、125、130 | 145、150 | 181、190、200 | 210、220 |