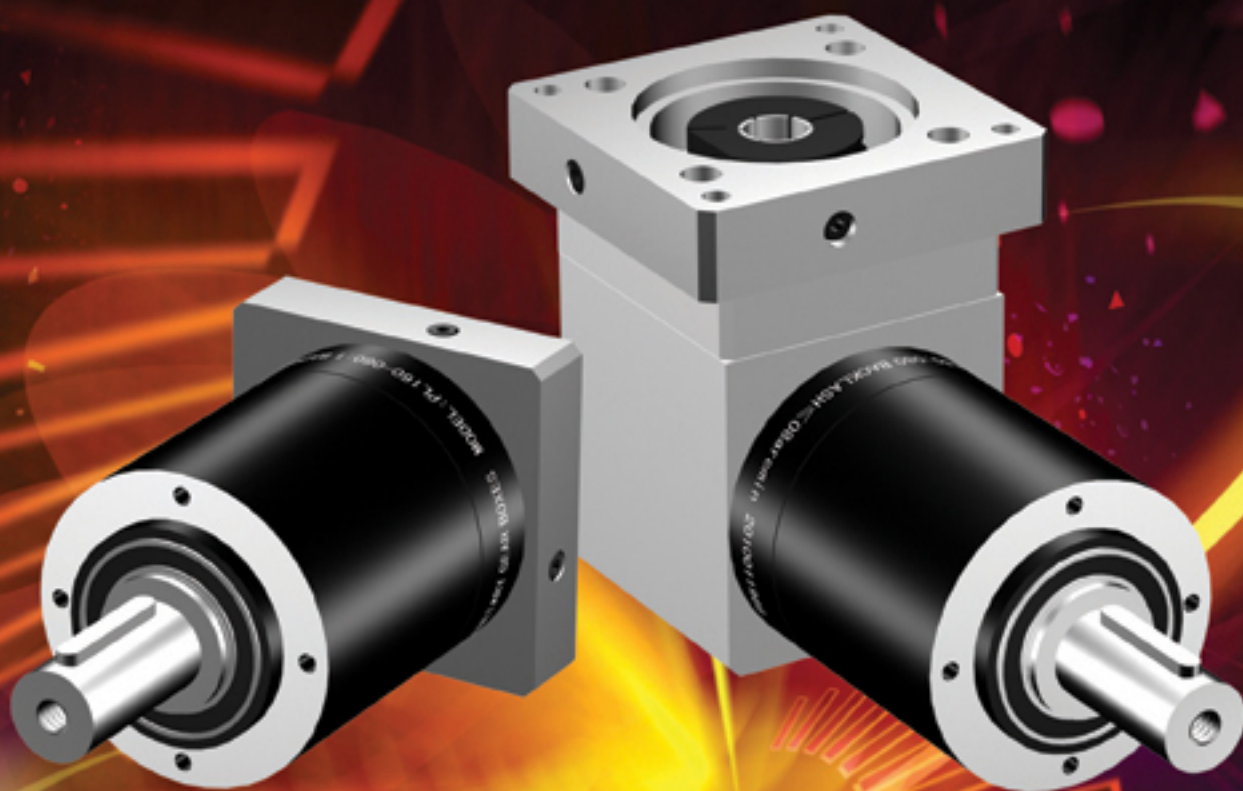


# PL/WPL Series

## Precision Planetary Gear Boxes

精密 • 經濟

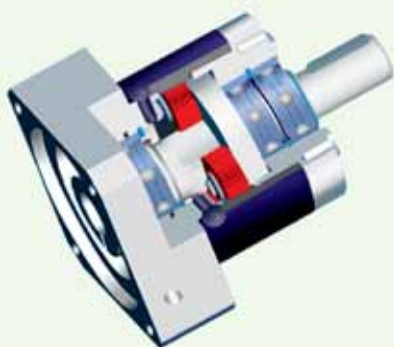


We make products devoutly, we hope you recognize our sincere and rigorous approach from each product and we will have confidence each other. We always seek to satisfy our customers.

我們以虔誠的態度制造產品，希望通過每一個產品，使您認識到我們的嚴謹與真誠，藉此建立起相互的信任。您的滿意是我們永恒的追求。



## Notes of product ordering 減速機選用訂購說明

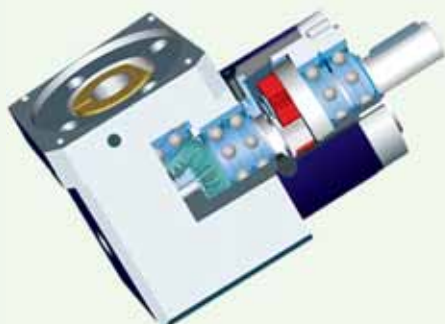


## PL series Precision Planetary Gear Boxes

|                  |                       |
|------------------|-----------------------|
| Ratio/減速比        | $i=3:1 \sim 10,000:1$ |
| Backlash/回程間隙    | Up to $< 3$ arcmin    |
| Output torque/轉矩 | Up to 250,000N.m      |
| Frame size/機型號   | PL40~PL800            |

ordering code 訂貨代碼/型號標注說明

| PL            | 90                                                                                          | 32                                                                                                                                                                                                                                                     | P2                                            | S2                                                                                                                                                                                                                                                                                               | OP2(MOTOR)                                                                                                                      |
|---------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| MODEL<br>系列代號 | SIZE<br>規格<br>40、60<br>80、120<br>140、160<br>200、250<br>300、350<br>400、450<br>550、700<br>800 | Ratio $i$ 減速比 $i$ :<br>1-stage/1-級:<br>3、4、5、6、8、10<br>2-stage/2-級:<br>9、12、15、16、18、<br>20、24、25、30、32、<br>36、40、48、64、100<br>3-stage/3-級:<br>60、64、72、80、90、<br>100、120、144、150、<br>160、180、200、240、<br>256、288、320、384、<br><b>512、600、800、1,000</b> | Backlash<br>背隙<br>P0: 超精密<br>P1: 精密<br>P2: 標準 | Output type<br>輸出安裝型式<br>S1: shaft 光軸<br>S2: shaft with key 單鍵軸<br>S3: splined shaft 花鍵軸<br>K1: Hollow shaft 光孔 (外配脹緊套)<br>K2: Hollow with key 單鍵孔<br>K3: SWpline hollow 花鍵孔<br>T: Special require 用戶特殊要求<br>OP 4: Foot mounting 底座裝配<br><br>Standard connection if no mark<br>不標注為標準S2型單鍵實軸法蘭連接 | Input type<br>輸入端連接方式<br>OP 2: Motor mounting<br>電機連接<br>請告知選用電機<br>品牌、規格型號<br>或者電機輸出端<br>尺寸<br><br>OP 1: shaft mounting<br>軸連接 |



## WPL series Precision Planetary Gear Boxes

|                  |                       |
|------------------|-----------------------|
| Ratio/減速比        | $i=3:1 \sim 10,000:1$ |
| Backlash/回程間隙    | Up to $< 5$ arcmin    |
| Output torque/轉矩 | Up to 250,000N.m      |
| Frame size/機型號   | WPL40~WPL800          |

ordering code 訂貨代碼/型號標注說明

| WPL           | 90                                                                                          | 32                                                                                                                                                                                                                                                     | P2                                            | S2                                                                                                                                                                                                                                                                                               | OP2(MOTOR)                                                                                                                      |
|---------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| MODEL<br>系列代號 | SIZE<br>規格<br>40、60<br>80、120<br>140、160<br>200、250<br>300、350<br>400、450<br>550、700<br>800 | Ratio $i$ 減速比 $i$ :<br>1-stage/1-級:<br>3、4、5、6、8、10<br>2-stage/2-級:<br>9、12、15、16、18、<br>20、24、25、30、32、<br>36、40、48、64、100<br>3-stage/3-級:<br>60、64、72、80、90、<br>100、120、144、150、<br>160、180、200、240、<br>256、288、320、384、<br><b>512、600、800、1,000</b> | Backlash<br>背隙<br>P0: 超精密<br>P1: 精密<br>P2: 標準 | Output type<br>輸出安裝型式<br>S1: shaft 光軸<br>S2: shaft with key 單鍵軸<br>S3: splined shaft 花鍵軸<br>K1: Hollow shaft 光孔 (外配脹緊套)<br>K2: Hollow with key 單鍵孔<br>K3: SWpline hollow 花鍵孔<br>T: Special require 用戶特殊要求<br>OP 4: Foot mounting 底座裝配<br><br>Standard connection if no mark<br>不標注為標準S2型單鍵實軸法蘭連接 | Input type<br>輸入端連接方式<br>OP 2: Motor mounting<br>電機連接<br>請告知選用電機<br>品牌、規格型號<br>或者電機輸出端<br>尺寸<br><br>OP 1: shaft mounting<br>軸連接 |



# PL/WPL precision planetary gear boxes technical data

## PL/WPL系列精密行星減速機性能參數



### PL/WPL Series

| Type Stage<br>型號 段數                   |    |           |         | PL 40<br>WPL | PL 60<br>WPL | PL 80<br>WPL | PL 120<br>WPL | PL 140<br>WPL | PL 160<br>WPL | PL 200<br>WPL |
|---------------------------------------|----|-----------|---------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| Data 性能參數                             |    |           |         |              |              |              |               |               |               |               |
| Nominal output Torque $T_{2N}$ 額定輸出扭矩 | Nm | 1-stage 段 | 3:1     | 17           | 28           | 85           | 115           | 210           | 400           | 1,000         |
|                                       |    |           | 4:1     | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 5:1     | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 6:1     |              | 25           | 75           | 200           | 260           | 650           | 1,000         |
|                                       |    |           | 8:1     | 6            | 18           | 50           | 120           | 210           | 450           | 950           |
|                                       |    |           | 10:1    |              | 15           | 32           | 100           | 130           | 305           |               |
|                                       |    | 2-stage 段 | 9:1     | 17           | 28           | 85           | 125           | 210           | 400           | 1,000         |
|                                       |    |           | 12:1    | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 15:1    | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 16:1    | 20           | 44           | 120          | 260           | 450           | 800           | 1,000         |
|                                       |    |           | 20:1    | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 25:1    | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 30:1    |              | 40           | 110          | 230           | 260           | 700           | 1,600         |
|                                       |    |           | 32:1    | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 36:1    |              | 25           | 75           | 200           | 260           | 650           | 1,000         |
|                                       |    |           | 40:1    | 20           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 48:1    |              | 25           | 75           | 200           | 260           | 650           | 1,000         |
|                                       |    |           | 50:1    | 18           | 40           | 110          | 230           | 300           | 700           | 1,250         |
|                                       |    |           | 64:1    | 6            | 18           | 50           | 120           | 210           | 450           | 1,000         |
|                                       |    |           | 100:1   |              | 15           | 32           | 100           | 130           | 305           |               |
|                                       |    | 3-stage 段 | 60:1    | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 64:1    | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 75:1    | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 80:1    | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 90:1    | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 100:1   | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 120:1   | 20           | 40           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 125:1   | 18           | 40           | 110          | 230           |               | 700           |               |
|                                       |    |           | 150:1   | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 160:1   | 20           | 44           | 120          | 120           | 450           | 800           | 1,780         |
|                                       |    |           | 180:1   | 18           | 40           | 110          | 110           | 400           | 700           | 1,600         |
|                                       |    |           | 200:1   | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 240:1   | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 256:1   | 20           | 44           | 120          | 260           | 450           | 800           | 1,780         |
|                                       |    |           | 320:1   | 18           | 40           | 110          | 230           | 400           | 700           | 1,600         |
|                                       |    |           | 384:1   |              | 25           | 75           | 200           | 260           | 650           | 1,000         |
|                                       |    |           | 512:1   | 6            | 18           | 50           | 120           | 210           | 450           | 1,000         |
|                                       |    |           | 600:1   |              | 25           | 75           | 200           | 260           | 650           |               |
|                                       |    |           | 800:1   |              | 18           | 50           | 120           | 210           | 450           |               |
|                                       |    |           | 1,000:1 |              | 15           | 32           | 100           | 130           | 400           |               |



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## PL/WPL precision planetary gear boxes technical data PL/WPL 系列精密行星減速機性能參數



## PL/WPL Series

| Type Stage<br>型號 段數                          |    |             | Data 性能參數  |            |            |            |            |            |            |            |         |
|----------------------------------------------|----|-------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|
|                                              |    |             | PL WPL 250 | PL WPL 300 | PL WPL 350 | PL WPL 400 | PL WPL 450 | PL WPL 550 | PL WPL 700 | PL WPL 800 |         |
| Nominal output Torque T <sub>2N</sub> 額定輸出扭矩 | Nm | 1-stage 1 段 | 4:1        | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 5:1        | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 6:1        | 2,100      | 4,500      | 7,500      | 13,000     | 20,000     | 38,000     | 110,000    | 195,000 |
|                                              |    |             | 8:1        | 1,700      | 3,200      | 5,000      | 7,500      | 12,500     | 25,000     | 63,000     | 125,000 |
|                                              |    | 2-stage 2 段 | 16:1       | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 20:1       | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 25:1       | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 30:1       | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 32:1       | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 36:1       | 2,100      | 4,500      | 7,500      | 13,000     | 20,000     | 38,000     | 110,000    | 195,000 |
|                                              |    |             | 40:1       | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 48:1       | 2,100      | 4,500      | 7,500      | 13,000     | 20,000     | 38,000     | 110,000    | 195,000 |
|                                              |    |             | 64:1       | 1,700      | 3,200      | 5,000      | 7,500      | 12,500     | 25,000     | 63,000     | 125,000 |
|                                              |    | 3-stage 3 段 | 64:1       | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 80:1       | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 100:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 120:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 125:1      | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 150:1      | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 160:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 180:1      | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 200:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 240:1      | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 256:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 320:1      | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 384:1      | 2,100      | 4,500      | 7,500      | 13,000     | 20,000     | 38,000     | 110,000    | 195,000 |
|                                              |    | 512:1       | 1,700      | 3,200      | 5,000      | 7,500      | 12,500     | 25,000     | 63,000     | 125,000    |         |
|                                              |    | 4-stage 4 段 | 500:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 600:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 720:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 235,000 |
|                                              |    |             | 750:1      | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 250,000 |
|                                              |    |             | 800:1      | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 900:1      | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 1,000:1    | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 1,200:1    | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 1,536:1    | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 1,600:1    | 3,100      | 5,500      | 88,00      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 1,920:1    | 3,100      | 5,500      | 88,00      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 2,048:1    | 3,700      | 6,400      | 10,000     | 17,000     | 29,000     | 65,000     | 150,000    | 250,000 |
|                                              |    |             | 2,560:1    | 3,100      | 5,500      | 8,800      | 16,000     | 28,000     | 50,000     | 141,000    | 235,000 |
|                                              |    |             | 3,072:1    | 2,100      | 4,500      | 7,500      | 13,000     | 20,000     | 38,000     | 110,000    | 195,000 |
|                                              |    |             | 4,096:1    | 1,700      | 3,200      | 5,000      | 7500       | 12,500     | 25,000     | 63,000     | 125,000 |







## PL/WPL precision planetary gear boxes technical data PL/WPL 系列精密行星減速機性能參數



PL/WPL Series

| Type Stage/型號 段數                                       |                   |     | PL WPL 40 | PL WPL 60 | PL WPL 80                 | PL WPL 120 | PL WPL 140 | PL WPL 160 | PL WPL 200 |     |     |     |
|--------------------------------------------------------|-------------------|-----|-----------|-----------|---------------------------|------------|------------|------------|------------|-----|-----|-----|
| Data 性能參數                                              |                   |     |           |           |                           |            |            |            |            |     |     |     |
| Max. output torque<br>最大使用扭矩                           | N.m               |     |           |           | 1.5 times T <sub>2N</sub> |            | 1.5倍額定扭矩   |            |            |     |     |     |
| Emergency stop<br>故障停止扭矩                               | N.m               |     |           |           | 2 times T <sub>2N</sub>   |            | 2倍額定扭矩     |            |            |     |     |     |
| F <sub>rmax</sub> .for 10,000h<br>最大徑向力 <sup>(1)</sup> | N                 |     | 185       | 265       | 400                       | 1,240      | 2,250      | 3,700      | 13,300     |     |     |     |
| F <sub>amax</sub> .for 10,000h<br>最大軸向力 <sup>(1)</sup> | N                 |     | 150       | 220       | 420                       | 1,000      | 1,500      | 3,500      | 7,500      |     |     |     |
| Torsional riRgidity<br>抗扭鋼性                            | Nm<br>arcmin      |     | 0.7       | 1.8       | 4.8                       | 11         | 22         | 35         | 50         |     |     |     |
| Max.input speed<br>最大輸入速度                              | rpm               |     | 10,000    | 8,000     | 6,000                     | 6,000      | 4,500      | 4,500      | 4,000      |     |     |     |
| Average input speed<br>額定輸入速度                          | rpm               |     | 4,500     | 4,000     | 3,500                     | 3,500      | 3,000      | 3,000      | 2,500      |     |     |     |
| Noise PL<br>噪音                                         | dB(A)             |     | <56       | <58       | <60                       | <65        | <68        | <70        | <70        |     |     |     |
| WPL                                                    |                   |     | <60       | <61       | <63                       | <68        | <70        | <75        | <75        |     |     |     |
| Average lifetime<br>平均壽命                               | h                 |     | 20,000    |           |                           |            |            |            |            |     |     |     |
| Effeency withfull load<br>滿載效率                         | η                 |     | 1段 ≥96%   |           | 2段 ≥94%                   |            | 3段 ≥90%    |            |            |     |     |     |
| Backlash 回程間隙                                          | PL                | P0  | 1段        |           |                           | <3         | <3         | <3         | <3         | <3  |     |     |
|                                                        |                   |     | 2段        |           |                           | <5         | <5         | <5         | <5         | <5  |     |     |
|                                                        |                   |     | 3段        |           |                           | <7         | <7         | <7         | <7         | <7  |     |     |
|                                                        |                   | P1  | 1段        | <14       | <5                        | <5         | <5         | <5         | <5         | <5  |     |     |
|                                                        |                   |     | 2段        | <16       | <7                        | <7         | <7         | <7         | <7         | <7  |     |     |
|                                                        |                   |     | 3段        | <18       | <9                        | <9         | <9         | <9         | <9         | <9  |     |     |
|                                                        | WPL               | P2  | 1段        | <20       | <14                       | <8         | <8         | <8         | <8         | <8  |     |     |
|                                                        |                   |     | 2段        | <24       | <16                       | <10        | <10        | <10        | <10        | <10 |     |     |
|                                                        |                   |     | 3段        | <28       | <18                       | <12        | <12        | <12        | <12        | <12 |     |     |
|                                                        |                   | P0  | 1段        |           |                           | <5         | <5         | <5         | <5         | <5  |     |     |
|                                                        |                   |     | 2段        |           |                           | <7         | <7         | <7         | <7         | <7  |     |     |
|                                                        |                   |     | 3段        |           |                           | <9         | <9         | <9         | <9         | <9  |     |     |
| P1                                                     | 1段                | <16 | <7        | <7        | <7                        | <7         | <7         | <7         |            |     |     |     |
|                                                        | 2段                | <18 | <9        | <9        | <9                        | <9         | <9         | <9         |            |     |     |     |
|                                                        | 3段                | <20 | <11       | <11       | <11                       | <11        | <11        | <11        |            |     |     |     |
| Moment of inertia 轉動慣量 <sup>(3)</sup>                  | kgcm <sup>2</sup> | 1段  | 1段        |           |                           | <10        | <10        | <10        | <10        | <10 |     |     |
|                                                        |                   |     | 2段        |           |                           | <12        | <12        | <12        | <12        | <12 |     |     |
|                                                        |                   |     | 3段        |           |                           | <14        | <14        | <14        | <14        | <14 |     |     |
|                                                        |                   |     | 1段        |           |                           | <10        | <10        | <10        | <10        | <10 |     |     |
|                                                        |                   |     | 2段        |           |                           | <12        | <12        | <12        | <12        | <12 |     |     |
|                                                        |                   |     | 3段        |           |                           | <14        | <14        | <14        | <14        | <14 |     |     |
|                                                        |                   | 2段  | 1段        |           |                           | <10        | <10        | <10        | <10        | <10 | <10 |     |
|                                                        |                   |     | 2段        |           |                           | <12        | <12        | <12        | <12        | <12 | <12 |     |
|                                                        |                   |     | 3段        |           |                           | <14        | <14        | <14        | <14        | <14 | <14 |     |
|                                                        |                   |     | 1段        |           |                           | <10        | <10        | <10        | <10        | <10 | <10 |     |
|                                                        |                   |     | 2段        |           |                           | <12        | <12        | <12        | <12        | <12 | <12 |     |
|                                                        |                   |     | 3段        |           |                           | <14        | <14        | <14        | <14        | <14 | <14 |     |
|                                                        |                   |     | 3段        | 1段        |                           |            | <10        | <10        | <10        | <10 | <10 | <10 |
|                                                        |                   |     |           | 2段        |                           |            | <12        | <12        | <12        | <12 | <12 | <12 |
|                                                        |                   |     |           | 3段        |                           |            | <14        | <14        | <14        | <14 | <14 | <14 |
|                                                        |                   |     |           | 1段        |                           |            | <10        | <10        | <10        | <10 | <10 | <10 |
|                                                        |                   |     |           | 2段        |                           |            | <12        | <12        | <12        | <12 | <12 | <12 |
|                                                        |                   |     |           | 3段        |                           |            | <14        | <14        | <14        | <14 | <14 | <14 |
| Weight 重量 <sup>(2)</sup>                               | kg                | PL  | 1段        |           |                           | <10        | <10        | <10        | <10        | <10 |     |     |
|                                                        |                   |     | 2段        |           |                           | <12        | <12        | <12        | <12        | <12 | <12 |     |
|                                                        |                   |     | 3段        |           |                           | <14        | <14        | <14        | <14        | <14 | <14 |     |
|                                                        |                   | WPL | 1段        |           |                           | <10        | <10        | <10        | <10        | <10 | <10 |     |
|                                                        |                   |     | 2段        |           |                           | <12        | <12        | <12        | <12        | <12 | <12 |     |
|                                                        |                   |     | 3段        |           |                           | <14        | <14        | <14        | <14        | <14 | <14 |     |

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(2) The weight of reducer in this book is approximation, the practical is depend on the finished product.

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(1) 表示: 在輸出轉速100rpm時, 作用於輸出中心位置之容許徑向力和軸向力。

(2) 減速機重量會因選配電機和機體材質變化而有所變化, 實際重量以實物為準。

(3) 轉動慣量與減速比、減速機內部結構、輸入軸徑等傳動系統有關, 直角傳動慣量有變化。



We make products devoutly, we hope you recognize our sincere and rigorous approach from each product and we will have confidence each other. We always seek to satisfy our customers. 我們以虔誠的態度製造產品, 希望通過每一個產品, 使您認識到我們的嚴謹與真誠, 藉此建立起相互的信任。您的滿意是我們永恆的追求。



## PL/WPL precision planetary gear boxes technical data PL/WPL 系列精密行星減速機性能參數



| Type Stage/型號 段數                          |                   |       | PL WPL 250                | PL WPL 300 | PL WPL 350 | PL WPL 400 | PL WPL 450 | PL WPL 550 | PL WPL 700 | PL WPL 800 |
|-------------------------------------------|-------------------|-------|---------------------------|------------|------------|------------|------------|------------|------------|------------|
| Data 性能參數                                 |                   |       |                           |            |            |            |            |            |            |            |
| Max. output torque<br>最大使用扭矩              | N.m               |       | 1.5 times T <sub>2N</sub> |            |            |            | 1.5倍額定扭矩   |            |            |            |
| Emergency stop<br>故障停止扭矩                  | N.m               |       | 2 times T <sub>2N</sub>   |            |            |            | 2倍額定扭矩     |            |            |            |
| F <sub>max</sub> .for 10,000h<br>最大徑向力(1) | N                 |       | 20,500                    | 24,500     | 30,000     | 38,000     | 75,000     | 150,000    | 230,000    | 310,000    |
| F <sub>max</sub> .for 10,000h<br>最大軸向力(1) | N                 |       | 14,000                    | 16,000     | 22,000     | 28,000     | 43,000     | 125,000    | 195,000    | 255,000    |
| Torsional rigidity<br>抗扭剛性                | Nm<br>arcmin      |       | 123                       | 312        | 339        | 536        | 750        | 1,095      | 1,350      | 1,850      |
| Max.input speed<br>最大輸入速度                 | rpm               |       | 3,500                     | 3,500      | 3,000      | 3,000      | 3,000      | 3,000      | 3,000      | 3,000      |
| Average input speed<br>額定輸入速度             | rpm               |       | 2,000                     | 2,000      | 1,500      | 1,500      | 1,500      | 1,500      | 1,500      | 1,500      |
| Noise<br>噪音                               | PL<br>WPL         | dB(A) | <70<br><75                | <72<br><75 | <75<br><78 | <75<br><78 | <75<br><78 | <78<br><80 | <80<br><85 | <80<br><85 |
| Average lifetime<br>平均壽命                  | h                 |       | 10,000                    |            |            |            |            |            |            |            |
| Efficiency with full load<br>滿載效率         | η                 |       | 1段 ≥ 96%                  |            |            |            | 2段 ≥ 94%   |            | 3段 ≥ 90%   |            |
| Backlash<br>回程間隙                          | PL                | P0    | 1段                        |            |            |            |            |            |            |            |
|                                           |                   |       | 2段                        |            |            |            |            |            |            |            |
|                                           |                   |       | 3段                        |            |            |            |            |            |            |            |
|                                           |                   | P1    | 1段                        | <8         | <8         | <8         | <8         | <12        | <12        | <12        |
|                                           |                   |       | 2段                        | <10        | <10        | <10        | <10        | <15        | <15        | <15        |
|                                           |                   |       | 3段                        | <15        | <15        | <15        | <15        | <18        | <18        | <18        |
|                                           |                   | P2    | 1段                        | <10        | <10        | <10        | <10        | <15        | <15        | <15        |
|                                           |                   |       | 2段                        | <15        | <15        | <15        | <15        | <18        | <18        | <18        |
|                                           |                   |       | 3段                        | <18        | <18        | <18        | <18        | <20        | <20        | <20        |
|                                           | WPL               | P0    | 1段                        |            |            |            |            |            |            |            |
|                                           |                   |       | 2段                        |            |            |            |            |            |            |            |
|                                           |                   |       | 3段                        |            |            |            |            |            |            |            |
|                                           |                   | P1    | 1段                        | <10        | <10        | <10        | <10        | <15        | <15        | <15        |
|                                           |                   |       | 2段                        | <15        | <15        | <15        | <15        | <18        | <18        | <18        |
|                                           |                   |       | 3段                        | <18        | <18        | <18        | <18        | <20        | <20        | <20        |
| Moment of inertia<br>轉動慣量(3)              | kgcm <sup>2</sup> | 1段    | 4:1                       | 32.85      | 40.2       | 75.1       | 251.6      | 340.50     | 563.85     | 930.71     |
|                                           |                   |       | 5:1                       | 28.71      | 39.9       | 73.4       | 243.0      | 317.82     | 550.13     | 911.45     |
|                                           |                   |       | 6:1                       | 27.03      | 36.6       | 70.9       | 232.4      | 296.51     | 535.90     | 850.62     |
|                                           |                   |       | 8:1                       | 25.69      | 34.5       | 62.5       | 205.8      | 247.50     | 510.25     | 807.35     |
|                                           |                   | 2段    | 16:1                      | 15.92      | 19.50      | 24.50      | 56.80      | 85.75      | 150.41     | 235.25     |
|                                           |                   |       | 20:1                      | 14.35      | 18.80      | 24.00      | 55.30      | 85.20      | 145.85     | 230.00     |
|                                           |                   |       | 25:1                      | 12.44      | 18.30      | 23.20      | 52.10      | 81.40      | 140.80     | 225.20     |
|                                           |                   |       | 32:1                      | 12.44      | 16.75      | 23.20      | 52.10      | 80.05      | 135.20     | 210.50     |
|                                           |                   | 3段    | 40:1                      | 11.35      | 16.60      | 23.20      | 50.09      | 73.50      | 130.50     | 210.00     |
|                                           |                   |       | 64:1                      | 11.35      | 16.60      | 23.20      | 50.09      | 73.50      | 130.00     | 205.75     |
|                                           |                   |       | 80:1                      | 14.27      | 17.73      | 24.73      | 40.75      | 65.31      | 110.73     | 221.70     |
|                                           |                   |       | 100:1                     | 10.31      | 14.85      | 19.75      | 38.60      | 60.50      | 100.50     | 200.00     |
|                                           |                   |       | 160:1                     | 9.42       | 14.50      | 19.70      | 36.50      | 58.20      | 89.20      | 195.75     |
|                                           |                   |       | 200:1                     | 8.20       | 13.75      | 18.50      | 32.85      | 54.60      | 85.85      | 190.30     |
|                                           |                   |       | 256:1                     | 8.20       | 13.75      | 18.50      | 32.85      | 54.60      | 85.00      | 185.40     |
|                                           |                   |       | 320:1                     | 8.10       | 13.25      | 18.50      | 30.71      | 50.15      | 82.42      | 180.00     |
|                                           |                   |       | 512:1                     | 7.95       | 10.80      | 15.45      | 28.85      | 48.90      | 80.35      | 175.00     |
| Weight<br>重量(2)                           | PL                | kg    | 1段                        | 70         | 113        | 145        | 250        | 385        | 600        | 950        |
|                                           |                   |       | 2段                        | 88         | 136        | 190        | 340        | 400        | 680        | 1050       |
|                                           |                   |       | 3段                        | 96         | 140        | 215        | 360        | 430        | 710        | 1121       |
|                                           |                   |       | 4段                        | 99         | 148        | 219        | 375        | 455        | 765        | 1309       |
|                                           | WPL               | kg    | 1段                        | 95         | 143        | 185        | 300        |            |            |            |
|                                           |                   |       | 2段                        | 103        | 166        | 230        | 390        | 666        | 1087       |            |
|                                           |                   |       | 3段                        | 121        | 170        | 255        | 410        | 633        | 915        | 1608       |
|                                           |                   |       | 4段                        | 124        | 178        | 259        | 425        | 633        | 882        | 1505       |

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(2) The weight of reducer in this book is approximation, the practical is depend on the finished product.

(3) The moment of inertia relates to the ratio, frame, input shaft and to standard motor shaft, etc.

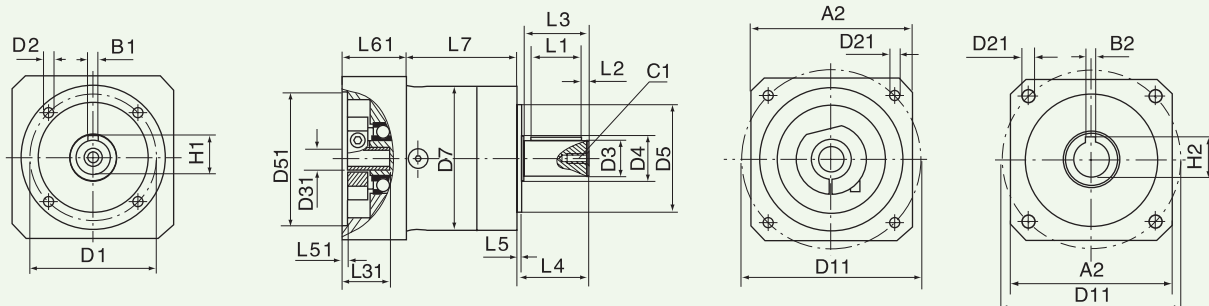
(1) 表示: 在輸出轉速100rpm時, 作用於輸出中心位置之容許徑向力和軸向力。

(2) 減速機重量會因選配電機和機體材質變化而有所變化, 實際重量以實物為準。

(3) 轉動慣量與減速比、減速機內部結構、輸入軸徑等傳動系統有關, 直角傳動慣量有變化。



input 鍵槽型輸入  
客户要求



**Other shaft** 用戶可選擇的輸出類型

|                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                  |                    |
|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|--------------------|
| output shaft<br>實軸  | S <sub>1</sub>                                                                    | shaft 光軸                                                                          | S <sub>2</sub>                                                                    | shaft with key 單鍵軸                                                                | S <sub>3</sub>                                                                    | splined shaft 花鍵軸                                                                   | S <sub>t</sub>                   | special shaft 特殊軸  |
|                     |  |  |  |  |  |  | According to customers<br>用戶要求制作 |                    |
| output hollow<br>孔軸 | k <sub>1</sub>                                                                    | hollow 光內孔(外配脹緊套)                                                                 | k <sub>2</sub>                                                                    | hollow with key 單鍵內孔                                                              | k <sub>3</sub>                                                                    | splined hollow 花鍵內孔                                                                 | k <sub>t</sub>                   | special hollow 特殊孔 |
|                     |  |  |  |  |  |  | According to customers<br>用戶要求制作 |                    |

[illegible]

(1) dimensions refer to the mounted motor-type, the size can be changed

(2) dimensions refer to the frame of the boxes, the size can be changed

(1) 這些參數都與所配電機的型號有關, 這些尺寸可以有變化

(2) 這些參數與減速機內部結構有關, 這些尺寸可以有變化



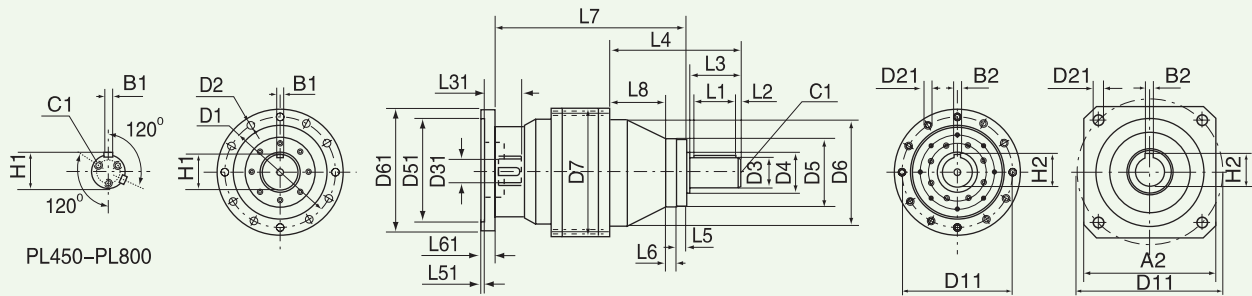
# PL250-PL800-OP2 motor mounting dimensions PL250-PL800-OP2 電機聯接型式外形安裝尺寸



output 輸出

○input 輸入

□input 輸入



Other shaft 用戶可選擇的輸出類型

| output shaft 輸出軸   | S <sub>1</sub> | shaft 光軸          | S <sub>2</sub> | shaft with key 單鍵軸   | S <sub>3</sub> | splined shaft 花鍵軸   | S <sub>t</sub>                | special shaft 特殊軸  |
|--------------------|----------------|-------------------|----------------|----------------------|----------------|---------------------|-------------------------------|--------------------|
| 實軸                 |                |                   |                |                      |                |                     | According to customers 用戶要求制作 |                    |
| output hollow 輸出孔軸 | k <sub>1</sub> | hollow 光內孔(外配脹緊套) | k <sub>2</sub> | hollow with key 單鍵內孔 | k <sub>3</sub> | splined hollow 花鍵內孔 | k <sub>t</sub>                | special hollow 特殊孔 |
| 孔軸                 |                |                   |                |                      |                |                     | According to customers 用戶要求制作 |                    |

| Type stage<br>型號 段數                        |                   |                                | PL250     |     |           |   | PL300     |     |           |   | PL350     |     |           |   | PL400     |     |           |   | PL450                       |     |           |       | PL550                       |     |           |   | PL700                        |      |      |   |
|--------------------------------------------|-------------------|--------------------------------|-----------|-----|-----------|---|-----------|-----|-----------|---|-----------|-----|-----------|---|-----------|-----|-----------|---|-----------------------------|-----|-----------|-------|-----------------------------|-----|-----------|---|------------------------------|------|------|---|
| Size/尺寸                                    |                   |                                | 1         | 2   | 3         | 4 | 1         | 2   | 3         | 4 | 1         | 2   | 3         | 4 | 1         | 2   | 3         | 4 | 1                           | 2   | 3         | 4     | 1                           | 2   | 3         | 4 | 1                            | 2    | 3    | 4 |
| output/輸出端尺寸                               | B1                |                                | 22        |     |           |   | 25        |     |           |   | 28        |     |           |   | 32        |     |           |   | 36                          |     |           |       | 40                          |     |           |   | 45                           |      |      |   |
|                                            | C1                |                                | M20X42    |     |           |   | M24X50    |     |           |   | M24X50    |     |           |   | M24X50    |     |           |   | 3-M16-120 <sup>0</sup> -Φ70 |     |           |       | 3-M16-120 <sup>0</sup> -Φ90 |     |           |   | 3-M16-120 <sup>0</sup> -Φ140 |      |      |   |
|                                            | H1                |                                | 85        |     |           |   | 95        |     |           |   | 116       |     |           |   | 127       |     |           |   | 148                         |     |           |       | 179                         |     |           |   | 210                          |      |      |   |
|                                            | D1                | Φ                              | 225       |     |           |   | 250       |     |           |   | 310       |     |           |   | 380       |     |           |   | 415                         |     |           |       | 503                         |     |           |   | 635                          |      |      |   |
|                                            | D2                | 4 ×                            | 12XM16    |     |           |   | 12XM16    |     |           |   | 12XM16    |     |           |   | 12XM16    |     |           |   | 18XM16                      |     |           |       | 18XM16                      |     |           |   | 24XM20                       |      |      |   |
|                                            | D3                | h7                             | 80        |     |           |   | 90        |     |           |   | 110       |     |           |   | 120       |     |           |   | 140                         |     |           |       | 170                         |     |           |   | 200                          |      |      |   |
|                                            | D4                |                                | 100       |     |           |   | 120       |     |           |   | 140       |     |           |   | 160       |     |           |   | 185                         |     |           |       | 220                         |     |           |   | 260                          |      |      |   |
|                                            | D5                | h7                             |           |     |           |   |           |     |           |   | 225       |     |           |   | 230       |     |           |   | 260                         |     |           |       | 300                         |     |           |   |                              |      |      |   |
|                                            | D6                |                                | 200       |     |           |   | 230       |     |           |   | 280       |     |           |   | 350       |     |           |   | 385                         |     |           |       | 460                         |     |           |   | 560                          |      |      |   |
|                                            | D7                |                                | 265       |     |           |   | 300       |     |           |   | 360       |     |           |   | 425       |     |           |   | 450                         |     |           |       | 550                         |     |           |   | 700                          |      |      |   |
|                                            | L1                |                                | 80        |     |           |   | 120       |     |           |   | 130       |     |           |   | 150       |     |           |   | 160                         |     |           |       | 200                         |     |           |   | 250                          |      |      |   |
|                                            | L2                |                                | 8         |     |           |   | 5         |     |           |   | 5         |     |           |   | 5         |     |           |   | 5                           |     |           |       | 5                           |     |           |   | 5                            |      |      |   |
|                                            | L3                |                                | 100       |     |           |   | 130       |     |           |   | 140       |     |           |   | 160       |     |           |   | 170                         |     |           |       | 210                         |     |           |   | 260                          |      |      |   |
|                                            | L4                |                                | 115       |     |           |   | 153       |     |           |   | 271       |     |           |   | 375       |     |           |   | 367                         |     |           |       | 449                         |     |           |   | 412                          |      |      |   |
|                                            | L5                |                                |           |     |           |   |           |     |           |   | 25        |     |           |   | 40        |     |           |   | 40                          |     |           |       | 32                          |     |           |   |                              |      |      |   |
|                                            | L6                |                                | 15        |     |           |   | 18        |     |           |   | 8.5       |     |           |   | 10        |     |           |   | 13                          |     |           |       | 13                          |     |           |   | 20                           |      |      |   |
|                                            | L7 <sup>(2)</sup> |                                | 412       | 432 | 490       |   | 468       | 549 | 569       |   | 525       | 633 | 714       |   | 580       | 695 | 803       |   | 663                         | 780 | 790       | 805.5 | 895                         | 910 | 941       |   | 880                          | 1002 | 1022 |   |
|                                            | L8                |                                |           |     |           |   |           |     |           |   | 72        |     |           |   | 135       |     |           |   | 152                         |     |           |       | 224                         |     |           |   |                              |      |      |   |
| input <sup>(1)</sup> /輸入端尺寸 <sup>(1)</sup> | A2                | According to motor<br>根據電機尺寸制做 | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
|                                            | B2                |                                | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
|                                            | H2                |                                | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
|                                            | D11               |                                | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
|                                            | D21               |                                | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
|                                            | D31               |                                | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
|                                            | D51               |                                | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
|                                            | L31               |                                | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机 |     |           |   | motor根据电机                   |     |           |       | motor根据电机                   |     |           |   | motor根据电机                    |      |      |   |
| L51                                        | motor根据电机         |                                |           |     | motor根据电机 |   |           |     | motor根据电机 |   |           |     | motor根据电机 |   |           |     | motor根据电机 |   |                             |     | motor根据电机 |       |                             |     | motor根据电机 |   |                              |      |      |   |
| L61                                        | motor根据电机         |                                |           |     | motor根据电机 |   |           |     | motor根据电机 |   |           |     | motor根据电机 |   |           |     | motor根据电机 |   |                             |     | motor根据电机 |       |                             |     | motor根据电机 |   |                              |      |      |   |

(1) dimensions refer to the mounted motor-type, the size can be changed

(2) dimensions refer to the frame of the boxes, the size can be changed

(1) 這些參數都與所配電機的型號有關, 這些尺寸可以有變化

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We make products devoutly, we hope you recognize our sincere and rigorous approach from each product and we will have confidence each other. We always seek to satisfy our customers. 我們以虔誠的態度製造產品, 希望通過每一個產品, 使您認識到我們的嚴謹與真誠, 藉此建立起相互的信任。您的滿意是我們永恒的追求。



36

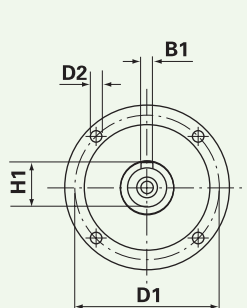
PL/WPL Series



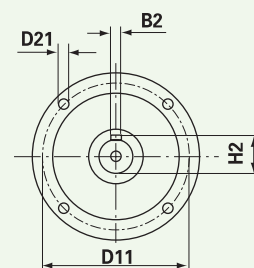
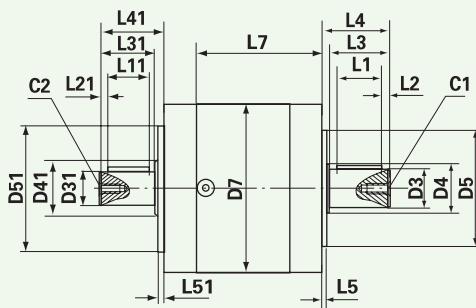
# PL40-PL200-OP1 shaft input mounting dimensions PL40-PL200-OP1 輸入軸型式外形安裝尺寸



output 輸出



input 輸入



Other shaft 用戶可選擇的輸出類型

| output shaft<br>實軸  | S1 | shaft 光軸          | S2 | shaft with key 單鍵軸   | S3 | splined shaft 花鍵軸   | S <sub>t</sub>                   | special shaft 特殊軸  |
|---------------------|----|-------------------|----|----------------------|----|---------------------|----------------------------------|--------------------|
|                     |    |                   |    |                      |    |                     | According to customers<br>用戶要求制作 |                    |
| output hollow<br>孔軸 | k1 | hollow 光內孔(外配脹緊套) | k2 | hollow with key 單鍵內孔 | k3 | splined hollow 花鍵內孔 | k <sub>t</sub>                   | special hollow 特殊孔 |
|                     |    |                   |    |                      |    |                     | According to customers<br>用戶要求制作 |                    |

| Type stage<br>型號 段數                        |                   |    | PL40  |      |    | PL60  |    |      | PL80  |      |    | PL120  |    |       | PL140  |       |     | PL160  |     |     | PL200  |       |     |
|--------------------------------------------|-------------------|----|-------|------|----|-------|----|------|-------|------|----|--------|----|-------|--------|-------|-----|--------|-----|-----|--------|-------|-----|
| Size/尺寸                                    |                   |    | 1     | 2    | 3  | 1     | 2  | 3    | 1     | 2    | 3  | 1      | 2  | 3     | 1      | 2     | 3   | 1      | 2   | 3   | 1      | 2     | 3   |
| output/輸出端尺寸                               | B1                |    | 3     |      |    | 5     |    |      | 6     |      |    | 8      |    |       | 10     |       |     | 12     |     |     | 14     |       |     |
|                                            | C1                |    | M4×10 |      |    | M5×12 |    |      | M6×16 |      |    | M10×22 |    |       | M12x25 |       |     | M12×25 |     |     | M20x42 |       |     |
|                                            | H1                |    | 11.2  |      |    | 16    |    |      | 22.5  |      |    | 28     |    |       | 35     |       |     | 43     |     |     | 53.5   |       |     |
|                                            | D1                | Φ  | 34    |      |    | 52    |    |      | 70    |      |    | 100    |    |       | 120    |       |     | 145    |     |     | 185    |       |     |
|                                            | D2                | 4× | M4×6  |      |    | M5×8  |    |      | M6×10 |      |    | M10×16 |    |       | M10X16 |       |     | M12×20 |     |     | M12X25 |       |     |
|                                            | D3                | h7 | 10    |      |    | 14    |    |      | 20    |      |    | 25     |    |       | 32     |       |     | 40     |     |     | 50     |       |     |
|                                            | D4                |    | 12    |      |    | 17    |    |      | 25    |      |    | 35     |    |       | 45     |       |     | 55     |     |     | 70     |       |     |
|                                            | D5                | h7 | 26    |      |    | 40    |    |      | 60    |      |    | 80     |    |       | 100    |       |     | 130    |     |     | 160    |       |     |
|                                            | D7                |    | 40    |      |    | 60    |    |      | 80    |      |    | 115    |    |       | 140    |       |     | 162    |     |     | 215    |       |     |
|                                            | L1                |    | 15    |      |    | 25    |    |      | 25    |      |    | 40     |    |       | 55     |       |     | 65     |     |     | 70     |       |     |
|                                            | L2                |    | 2.5   |      |    | 2.5   |    |      | 4     |      |    | 5      |    |       | 6      |       |     | 8      |     |     | 8      |       |     |
|                                            | L3                |    | 23    |      |    | 30    |    |      | 36    |      |    | 50     |    |       | 70     |       |     | 80     |     |     | 85     |       |     |
|                                            | L4                |    | 26    |      |    | 35    |    |      | 40    |      |    | 55     |    |       | 75     |       |     | 85     |     |     | 100    |       |     |
|                                            | L5                |    | 2     |      |    | 3     |    |      | 3     |      |    | 4      |    |       | 5      |       |     | 5      |     |     | 15     |       |     |
|                                            | L7 <sup>(2)</sup> |    | 36.6  | 50.5 | 64 | 44.3  | 59 | 74.5 | 60    | 77.5 | 95 | 65.5   | 88 | 110.5 | 78     | 107.5 | 137 | 94.5   | 133 | 171 | 128    | 167.5 | 207 |
| input <sup>(1)</sup> /輸入端尺寸 <sup>(1)</sup> | B2                |    | 2     |      |    | 3     |    |      | 5     |      |    | 6      |    |       | 8      |       |     | 10     |     |     | 12     |       |     |
|                                            | C2                |    | M3X6  |      |    | M3X6  |    |      | M5X10 |      |    | M6X12  |    |       | M12X24 |       |     | M12X24 |     |     | M12X24 |       |     |
|                                            | H2                |    | 8.8   |      |    | 11.2  |    |      | 18    |      |    | 22.5   |    |       | 28.5   |       |     | 38     |     |     | 43     |       |     |
|                                            | D11               | Φ  | 34    |      |    | 52    |    |      | 70    |      |    | 100    |    |       | 120    |       |     | 145    |     |     | 155    | 145   |     |
|                                            | D21               | 4× | M4X6  |      |    | M5X8  |    |      | M6X12 |      |    | M10X20 |    |       | M10X20 |       |     | M10X20 |     |     | M12X24 |       |     |
|                                            | D31               | h7 | 8     |      |    | 10    |    |      | 16    |      |    | 20     |    |       | 25     |       |     | 35     |     |     | 40     |       |     |
|                                            | D41               |    | 12    |      |    | 17    |    |      | 25    |      |    | 35     |    |       | 45     |       |     | 50     |     |     | 65     |       |     |
|                                            | D51               | h7 | 26    |      |    | 40    |    |      | 60    |      |    | 80     |    |       | 100    |       |     | 130    |     |     | 130    |       |     |
|                                            | L11               |    | 10    |      |    | 15    |    |      | 20    |      |    | 30     |    |       | 35     |       |     | 45     |     |     | 60     |       |     |
|                                            | L21               |    | 3.5   |      |    | 4     |    |      | 3     |      |    | 5      |    |       | 5      |       |     | 5      |     |     | 5      |       |     |
|                                            | L31               |    | 17    |      |    | 21    |    |      | 26    |      |    | 40     |    |       | 45     |       |     | 58     |     |     | 70     |       |     |
|                                            | L41               |    | 20    |      |    | 25    |    |      | 30    |      |    | 45     |    |       | 50     |       |     | 65     |     |     | 75     |       |     |
|                                            | L51               |    | 2     |      |    | 3     |    |      | 3     |      |    | 4      |    |       | 5      |       |     | 5      |     |     | 5      |       |     |

(1) dimensions refer to the mounted motor-type, the size can be changed

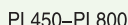
(2) dimensions refer to the frame of the boxes, the size can be changed

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(2) 這些參數與減速機內部結構有關, 這些尺寸可以有變化



**input 輸入**



|                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                  |                    |
|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|--------------------|
| output shaft<br>實軸  | S <sub>1</sub>                                                                    | shaft 光軸                                                                          | S <sub>2</sub>                                                                    | shaft with key 單鍵軸                                                                | S <sub>3</sub>                                                                    | splined shaft 花鍵軸                                                                  | S <sub>t</sub>                   | special shaft 特殊軸  |
|                     |  |  |  |  |  |  | According to customers<br>用戶要求制作 |                    |
| output hollow<br>孔軸 | k <sub>1</sub>                                                                    | hollow 光內孔(外配脹緊套)                                                                 | k <sub>2</sub>                                                                    | hollow with key 單鍵內孔                                                              | k <sub>3</sub>                                                                    | splined hollow 花鍵內孔                                                                | k <sub>t</sub>                   | special hollow 特殊孔 |
|                     |  |  |  |  |  |  | According to customers<br>用戶要求制作 |                    |

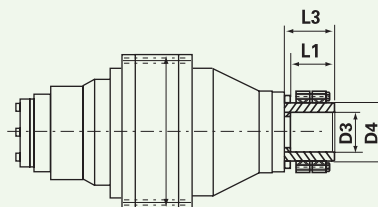
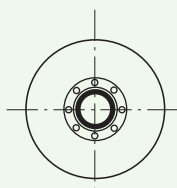
(1) dimensions refer to the mounted motor-type ,the size can be changed  
(2) dimensions refer to the frame of the boxes.the size can be changed

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# PL/WPL Series

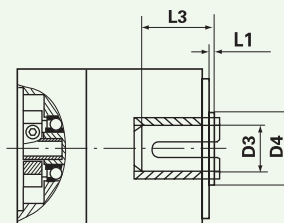
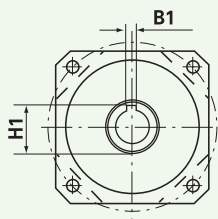
**PL□k1 hollow 光內孔(外配脹緊套)**



| Type stage<br>型號段數                                   |     | PL200K <sub>1</sub> | PL250K <sub>1</sub> | PL300K <sub>1</sub> | PL350K <sub>1</sub> | PL400K <sub>1</sub> | PL450K <sub>1</sub> | PL550K <sub>1</sub> | PL700K <sub>1</sub> |
|------------------------------------------------------|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| D3                                                   | ΦH7 | 50                  | 75                  | 85                  | 110                 | 130                 | 140                 | 170                 | 200                 |
| D4                                                   | Φ   | 60                  | 90                  | 110                 | 140                 | 165                 | 185                 | 220                 | 260                 |
| L1                                                   | mm  | 50                  | 70                  | 90                  | 110                 | 120                 | 145                 | 170                 | 210                 |
| L3                                                   | mm  | 72                  | 100                 | 145                 | 160                 | 180                 | 205                 | 250                 | 307                 |
| Other size is as same as PL series 其它尺寸與PL系列標準尺寸完全一致 |     |                     |                     |                     |                     |                     |                     |                     |                     |

Other size is as same as PL series 其它尺寸與PL系列標準尺寸完全一致

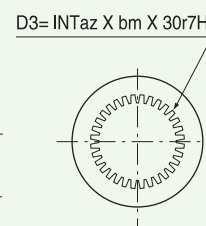
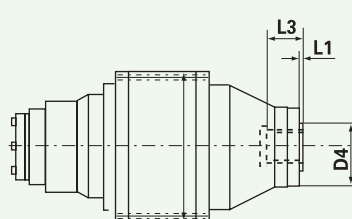
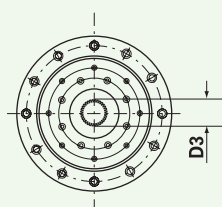
**PL□k2**      hollow with key 單鍵內孔



| Type stage<br>型號 段數 |     | PL60K <sub>2</sub> | PL80K <sub>2</sub> | PL120K <sub>2</sub> | PL140K <sub>2</sub> | PL160K <sub>2</sub> | PL200K <sub>2</sub> | PL250K <sub>2</sub> | PL300K <sub>2</sub> | PL350K <sub>2</sub> | PL400K <sub>2</sub> |
|---------------------|-----|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| B1                  | mm  | 3                  | 5                  | 6                   | 8                   | 10                  | 14                  | 14                  | 18                  | 20                  | 22                  |
| H1                  | mm  | 11.4               | 17                 | 22.8                | 28.3                | 38.3                | 53.8                | 58.8                | 69.3                | 74.8                | 85.3                |
| D3                  | ΦH7 | 10                 | 15                 | 20                  | 25                  | 35                  | 50                  | 55                  | 65                  | 70                  | 80                  |
| D4                  | Φ   | 19                 | 30                 | 40                  | 45                  | 55                  | 70                  | 75                  | 85                  | 90                  | 100                 |
| L1                  | mm  | 2                  | 2                  | 2                   | 2                   | 3                   | 3                   | 5                   | 5                   | 5                   | 5                   |
| L3                  | mm  | 20                 | 30                 | 38                  | 50                  | 60                  | 80                  | 80                  | 80                  | 100                 | 130                 |

Other size is as same as PL series 其它尺寸與PL系列標準尺寸完全一致

**PL□k3 splined hollow 花鍵內孔**



| Type stage 型號 段數 |    | PL200K3          | PL250K3          | PL300K3          | PL350K3          |
|------------------|----|------------------|------------------|------------------|------------------|
| D3               |    | INT20zX2mX30rX7H | INT25zX2mX30rX7H | INT20zX3mX30rX7H | INT25zX3mX30rX7H |
| D4               | Φ  | 70               | 75               | 85               | 90               |
| L1               | mm | 3                | 5                | 5                | 5                |
| L3               | mm | 60               | 60               | 65               | 70               |

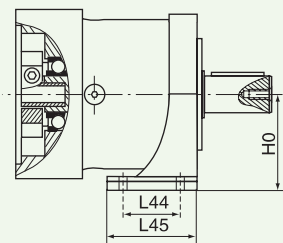
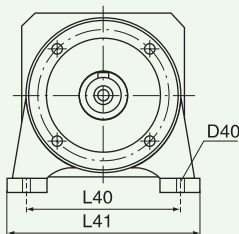
| Type stage 型號 段數 |    | PL400K3          | PL450K3          | PL550K3          | PL700K3          |
|------------------|----|------------------|------------------|------------------|------------------|
| D3               |    | INT20zX4mX30rX7H | INT42zX3mX30rX7H | INT30zX5mX30rX7H | INT36zX5mX30rX7H |
| D4               | Φ  | 100              | 135              | 160              | 190              |
| L1               | mm | 5                | 5                | 5                | 5                |
| L3               | mm | 80               | 80               | 100              | 123              |

Other size is as same as PL series 其它尺寸與PL系列標準尺寸完全一致

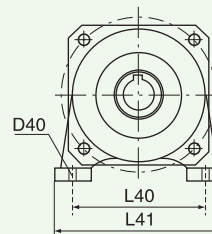
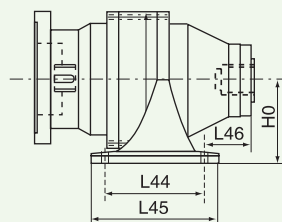
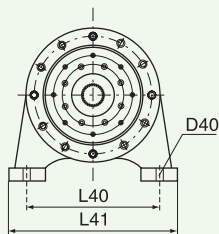




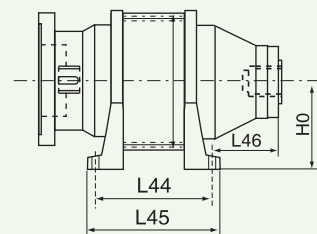
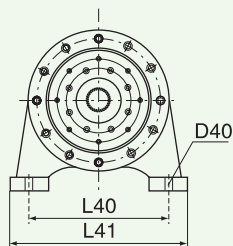
## PL40-PL800-OP4 foot mounting dimensions PL40-PL800-OP4 底脚型式安裝尺寸



| Type stage<br>型號 段數                        |     | PL40                      | PL60 | PL80 | PL120 | PL140 | PL160 | PL200 |
|--------------------------------------------|-----|---------------------------|------|------|-------|-------|-------|-------|
| Size尺寸                                     |     |                           |      |      |       |       |       |       |
| H0                                         |     | 45                        | 55   | 75   | 100   | 110   | 120   | 160   |
| D40                                        | 4-Φ | 7                         | 7    | 9    | 11    | 11    | 13    | 17    |
| L40                                        | mm  | 40                        | 50   | 75   | 100   | 110   | 120   | 160   |
| L41                                        | mm  | 60                        | 70   | 100  | 130   | 140   | 160   | 200   |
| L44                                        | mm  | 70                        | 90   | 110  | 150   | 175   | 190   | 240   |
| L45                                        | mm  | 88                        | 108  | 130  | 176   | 200   | 220   | 276   |
| Other size is as same as PL40-PL200 series |     | 其它尺寸與PL40-PL200系列標準尺寸完全一致 |      |      |       |       |       |       |

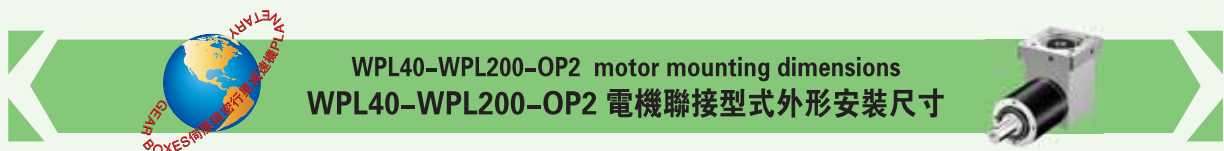


| Type stage<br>型號 段數                         |     | PL250                      | PL300 | PL350 | PL400 |
|---------------------------------------------|-----|----------------------------|-------|-------|-------|
| Size尺寸                                      |     |                            |       |       |       |
| H0                                          |     | 160                        | 200   | 225   | 250   |
| D40                                         | 4-Φ | 19                         | 19    | 24    | 24    |
| L40                                         | mm  | 254                        | 310   | 360   | 410   |
| L41                                         | mm  | 310                        | 380   | 445   | 500   |
| L44                                         | mm  | 250                        | 300   | 320   | 350   |
| L45                                         | mm  | 300                        | 370   | 420   | 450   |
| L46                                         | mm  |                            | 75    | 95    | 115   |
| Other size is as same as PL250-PL400 series |     | 其它尺寸與PL250-PL400系列標準尺寸完全一致 |       |       |       |

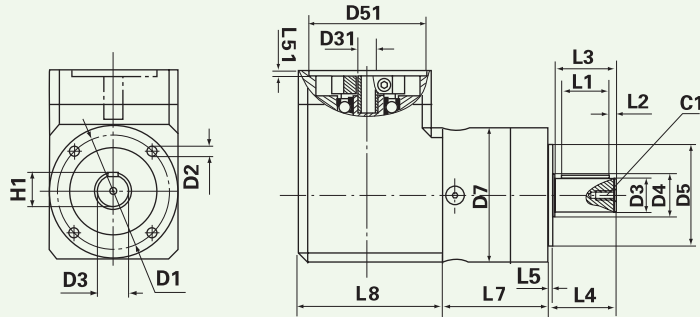


| Type stage<br>型號 段數                         |     | PL450                      | PL550 | PL700 | PL800 |
|---------------------------------------------|-----|----------------------------|-------|-------|-------|
| Size尺寸                                      |     |                            |       |       |       |
| H0                                          |     | 280                        | 315   | 415   |       |
| D40                                         | 4-Φ | 33                         | 39    | 45    |       |
| L40                                         | mm  | 457                        | 508   | 700   |       |
| L41                                         | mm  | 550                        | 620   | 850   |       |
| L44                                         | mm  | 404                        | 439   | 480   |       |
| L45                                         | mm  | 482                        | 562   | 680   |       |
| L46                                         | mm  | 112.5                      | 169   | 27    |       |
| Other size is as same as PL450-PL800 series |     | 其它尺寸與PL450-PL800系列標準尺寸完全一致 |       |       |       |

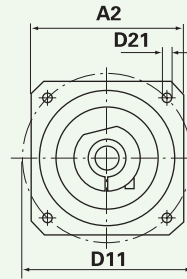




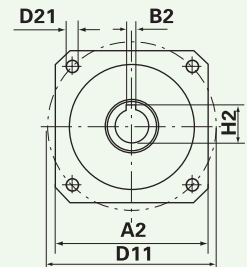
output 輸出



input 鎖緊環輸入  
WPL40-200標準



input 鍵槽型輸入  
客戶要求



Other shaft 用戶可選擇的輸出類型

| output shaft<br>輸出軸  | S <sub>1</sub> | shaft 光軸          | S <sub>2</sub> | shaft with key 單鍵軸   | S <sub>3</sub> | splined shaft 花鍵軸   | S <sub>t</sub>                   | special shaft 特殊軸  |
|----------------------|----------------|-------------------|----------------|----------------------|----------------|---------------------|----------------------------------|--------------------|
|                      |                |                   |                |                      |                |                     | According to customers<br>用戶要求制作 |                    |
| output hollow<br>輸出孔 | k <sub>1</sub> | hollow 光內孔(外配壓緊套) | k <sub>2</sub> | hollow with key 單鍵內孔 | k <sub>3</sub> | splined hollow 花鍵內孔 | k <sub>t</sub>                   | special hollow 特殊孔 |
|                      |                |                   |                |                      |                |                     | According to customers<br>用戶要求制作 |                    |

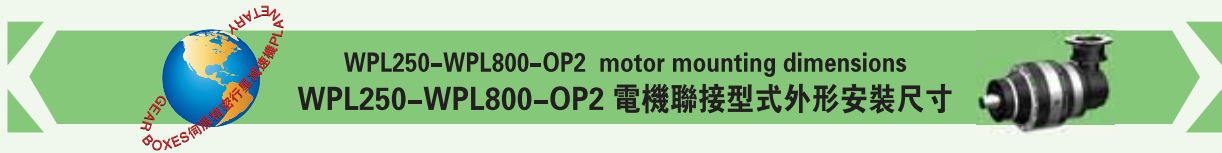
| Type stage<br>型號 段數<br>Size/尺寸             |                   |                                | WPL40     |      |    | WPL60     |    |      | WPL80     |      |    | WPL120    |    |       | WPL140    |       |     | WPL160    |     |     | WPL200    |       |     |
|--------------------------------------------|-------------------|--------------------------------|-----------|------|----|-----------|----|------|-----------|------|----|-----------|----|-------|-----------|-------|-----|-----------|-----|-----|-----------|-------|-----|
|                                            |                   |                                | 1         | 2    | 3  | 1         | 2  | 3    | 1         | 2    | 3  | 1         | 2  | 3     | 1         | 2     | 3   | 1         | 2   | 3   | 1         | 2     | 3   |
| output/輸出端尺寸                               | B1                |                                | 3         |      |    | 5         |    |      | 6         |      |    | 8         |    |       | 10        |       |     | 12        |     |     | 14        |       |     |
|                                            | C1                |                                | M4x10     |      |    | M5×12     |    |      | M6×16     |      |    | M10×22    |    |       | M12x25    |       |     | M12×25    |     |     | M20x42    |       |     |
|                                            | H1                |                                | 11.2      |      |    | 16        |    |      | 22.5      |      |    | 28        |    |       | 35        |       |     | 43        |     |     | 53.5      |       |     |
|                                            | D1                | Φ                              | 34        |      |    | 52        |    |      | 70        |      |    | 100       |    |       | 120       |       |     | 145       |     |     | 185       |       |     |
|                                            | D2                | 4×                             | M4×6      |      |    | M5×8      |    |      | M6×10     |      |    | M10×16    |    |       | M10X16    |       |     | M12×20    |     |     | M12X25    |       |     |
|                                            | D3                | h7                             | 10        |      |    | 14        |    |      | 20        |      |    | 25        |    |       | 32        |       |     | 40        |     |     | 50        |       |     |
|                                            | D4                |                                | 12        |      |    | 17        |    |      | 25        |      |    | 35        |    |       | 45        |       |     | 55        |     |     | 70        |       |     |
|                                            | D5                | h7                             | 26        |      |    | 40        |    |      | 60        |      |    | 80        |    |       | 100       |       |     | 130       |     |     | 160       |       |     |
|                                            | D7                |                                | 40        |      |    | 60        |    |      | 80        |      |    | 115       |    |       | 140       |       |     | 162       |     |     | 215       |       |     |
|                                            | L1                |                                | 15        |      |    | 25        |    |      | 25        |      |    | 40        |    |       | 55        |       |     | 65        |     |     | 70        |       |     |
|                                            | L2                |                                | 2.5       |      |    | 2.5       |    |      | 4         |      |    | 5         |    |       | 6         |       |     | 8         |     |     | 8         |       |     |
|                                            | L3                |                                | 23        |      |    | 30        |    |      | 36        |      |    | 50        |    |       | 70        |       |     | 80        |     |     | 85        |       |     |
|                                            | L4                |                                | 26        |      |    | 35        |    |      | 40        |      |    | 55        |    |       | 75        |       |     | 85        |     |     | 100       |       |     |
|                                            | L5                |                                | 2         |      |    | 3         |    |      | 3         |      |    | 4         |    |       | 5         |       |     | 5         |     |     | 15        |       |     |
|                                            | L7 <sup>(2)</sup> |                                | 36.6      | 50.5 | 64 | 44.3      | 59 | 74.5 | 60        | 77.5 | 95 | 65.5      | 88 | 110.5 | 78        | 107.5 | 137 | 94.5      | 133 | 171 | 128       | 167.5 | 207 |
|                                            | L8                |                                | 49        |      |    | 75        |    |      | 103.6     |      |    | 125.5     |    |       | 140       |       |     | 151.2     |     |     | 205       |       |     |
| input <sup>(1)</sup> /輸入端尺寸 <sup>(1)</sup> | A2                | According to motor<br>根據電機尺寸制做 | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | B2                |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | H2                |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | D11               |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | D21               |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | D31               |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | D51               |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | L31               |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | L51               |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |
|                                            | L61               |                                | motor根据电机 |      |    | motor根据电机 |    |      | motor根据电机 |      |    | motor根据电机 |    |       | motor根据电机 |       |     | motor根据电机 |     |     | motor根据电机 |       |     |

(1) dimensions refer to the mounted motor-type, the size can be changed

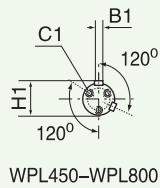
(2) dimensions refer to the frame of the boxes, the size can be changed

(1) 這些參數都與所配電機的型號有關, 這些尺寸可以有變化

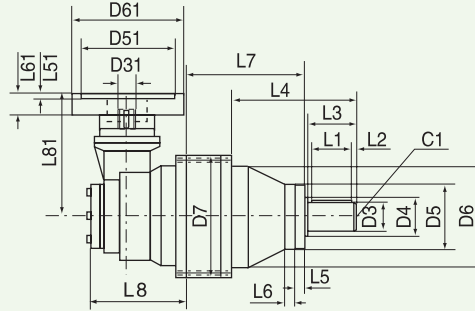
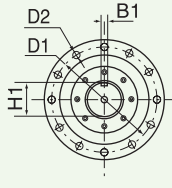
(2) 這些參數與減速機內部結構有關, 這些尺寸可以有變化



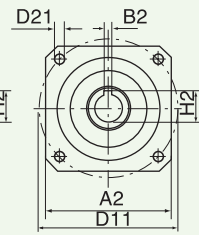
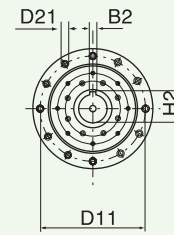
output 輸出



WPL450-WPL800



input 輸入



Other shaft 用戶可選擇的輸出類型

| output shaft<br>實軸  | S <sub>1</sub> | shaft 光軸          | S <sub>2</sub> | shaft with key 單鍵軸   | S <sub>3</sub> | splined shaft 花鍵軸   | S <sub>t</sub>                   | special shaft 特殊軸  |
|---------------------|----------------|-------------------|----------------|----------------------|----------------|---------------------|----------------------------------|--------------------|
|                     |                |                   |                |                      |                |                     | According to customers<br>用戶要求制作 |                    |
| output hollow<br>孔軸 | k <sub>1</sub> | hollow 光內孔(外配脹緊套) | k <sub>2</sub> | hollow with key 單鍵內孔 | k <sub>3</sub> | splined hollow 花鍵內孔 | k <sub>t</sub>                   | special hollow 特殊孔 |
|                     |                |                   |                |                      |                |                     | According to customers<br>用戶要求制作 |                    |

| Type stage<br>型號 段數                       |                   | WPL250    |     |       |       | WPL300    |     |     |   | WPL350    |     |     |     | WPL400    |     |     |     | WPL450         |     |     |     | WPL550         |     |     |     | WPL700          |     |     |     |
|-------------------------------------------|-------------------|-----------|-----|-------|-------|-----------|-----|-----|---|-----------|-----|-----|-----|-----------|-----|-----|-----|----------------|-----|-----|-----|----------------|-----|-----|-----|-----------------|-----|-----|-----|
| Size/尺寸                                   |                   | 1         | 2   | 3     | 4     | 1         | 2   | 3   | 4 | 1         | 2   | 3   | 4   | 1         | 2   | 3   | 4   | 1              | 2   | 3   | 4   | 1              | 2   | 3   | 4   | 1               | 2   | 3   | 4   |
| output/輸出端尺寸                              | B1                | 22        |     |       |       | 25        |     |     |   | 28        |     |     |     | 32        |     |     |     | 36             |     |     |     | 40             |     |     |     | 45              |     |     |     |
|                                           | C1                | M20X42    |     |       |       | M24X50    |     |     |   | M24X50    |     |     |     | M24X50    |     |     |     | 3-M16-120°-Φ70 |     |     |     | 3-M16-120°-Φ90 |     |     |     | 3-M16-120°-Φ140 |     |     |     |
|                                           | H1                | 85        |     |       |       | 95        |     |     |   | 116       |     |     |     | 127       |     |     |     | 148            |     |     |     | 179            |     |     |     | 210             |     |     |     |
|                                           | D1                | Φ 225     |     |       |       | 250       |     |     |   | 310       |     |     |     | 380       |     |     |     | 415            |     |     |     | 503            |     |     |     | 635             |     |     |     |
|                                           | D2                | 12XM16    |     |       |       | 12XM16    |     |     |   | 12XM16    |     |     |     | 12XM16    |     |     |     | 18XM16         |     |     |     | 18XM16         |     |     |     | 24XM20          |     |     |     |
|                                           | D3                | h7 80     |     |       |       | 90        |     |     |   | 110       |     |     |     | 120       |     |     |     | 140            |     |     |     | 170            |     |     |     | 200             |     |     |     |
|                                           | D4                | 100       |     |       |       | 120       |     |     |   | 140       |     |     |     | 160       |     |     |     | 185            |     |     |     | 220            |     |     |     | 260             |     |     |     |
|                                           | D5                | h7        |     |       |       |           |     |     |   | 225       |     |     |     | 230       |     |     |     | 260            |     |     |     | 300            |     |     |     |                 |     |     |     |
|                                           | D6                | 200       |     |       |       | 230       |     |     |   | 280       |     |     |     | 350       |     |     |     | 385            |     |     |     | 460            |     |     |     | 560             |     |     |     |
|                                           | D7                | 265       |     |       |       | 300       |     |     |   | 360       |     |     |     | 425       |     |     |     | 450            |     |     |     | 550            |     |     |     | 700             |     |     |     |
|                                           | L1                | 80        |     |       |       | 120       |     |     |   | 130       |     |     |     | 150       |     |     |     | 160            |     |     |     | 200            |     |     |     | 250             |     |     |     |
|                                           | L2                | 8         |     |       |       | 5         |     |     |   | 5         |     |     |     | 5         |     |     |     | 5              |     |     |     | 5              |     |     |     | 5               |     |     |     |
|                                           | L3                | 100       |     |       |       | 130       |     |     |   | 140       |     |     |     | 160       |     |     |     | 170            |     |     |     | 210            |     |     |     | 260             |     |     |     |
|                                           | L4                | 115       |     |       |       | 153       |     |     |   | 271       |     |     |     | 375       |     |     |     | 367            |     |     |     | 449            |     |     |     | 412             |     |     |     |
|                                           | L5                |           |     |       |       |           |     |     |   | 25        |     |     |     | 40        |     |     |     | 40             |     |     |     | 32             |     |     |     |                 |     |     |     |
|                                           | L6                | 15        |     |       |       | 18        |     |     |   | 8.5       |     |     |     | 10        |     |     |     | 13             |     |     |     | 13             |     |     |     | 20              |     |     |     |
|                                           | L7 <sup>(2)</sup> | 164.5     | 219 | 237.5 | 274.5 | 190       | 300 | 350 |   | 190       | 300 | 350 | 400 | 240       | 315 | 385 | 445 | 245            | 309 | 466 | 535 | 270            | 450 | 535 | 610 | 310             | 520 | 640 | 730 |
| input <sup>(1)</sup> 輸入端尺寸 <sup>(1)</sup> | A2                | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | B2                | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | H2                | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | D11               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | D21               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | D31               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | D51               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | D61               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | L51               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | L61               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |
|                                           | L81               | motor根据电机 |     |       |       | motor根据电机 |     |     |   | motor根据电机 |     |     |     | motor根据电机 |     |     |     | motor根据电机      |     |     |     | motor根据电机      |     |     |     | motor根据电机       |     |     |     |

(1) dimensions refer to the mounted motor-type ,the size can be changed

(2) dimensions refer to the frame of the boxes,the size can be changed

(1)這些參數都與所配電機的型號有關,這些尺寸可以有變化

(2)這些參數與減速機內部結構有關,這些尺寸可以有變化

We make products devoutly, we hope you recognize our sincere and rigorous approach from each product and we will have confidence each other. We always seek to satisfy our customers. 我們以虔誠的態度製造產品, 希望通過每一個產品, 使您認識到我們的嚴謹與真誠, 藉此建立起相互的信任。您的滿意是我們永恒的追求。

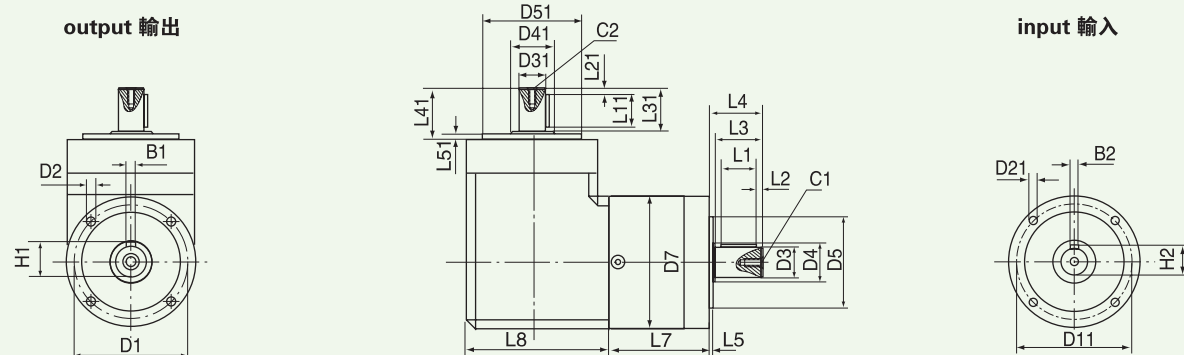


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PL/WPL Series



## WPL40-WPL200-OP1 shaft input mounting dimensions WPL40-WPL200-OP1 輸入軸型式外形安裝尺寸



### Other shaft 用戶可選擇的輸出類型

| output shaft 實軸  | S1 | shaft 光軸          | S2 | shaft with key 單鍵軸   | S3 | splined shaft 花鍵軸   | S <sub>t</sub>                   | special shaft 特殊軸  |
|------------------|----|-------------------|----|----------------------|----|---------------------|----------------------------------|--------------------|
|                  |    |                   |    |                      |    |                     | According to customers<br>用戶要求制作 |                    |
| output hollow 孔軸 | k1 | hollow 光內孔(外配脹緊套) | k2 | hollow with key 單鍵內孔 | k3 | splined hollow 花鍵內孔 | k <sub>t</sub>                   | special hollow 特殊孔 |
|                  |    |                   |    |                      |    |                     | According to customers<br>用戶要求制作 |                    |

| Type stage<br>型號 段數<br>Size/尺寸             |                   |    | WPL40 |      |    | WPL60 |    |       | WPL80 |      |       | WPL120 |    |       | WPL140 |       |       | WPL160 |     |     | WPL200 |       |     |
|--------------------------------------------|-------------------|----|-------|------|----|-------|----|-------|-------|------|-------|--------|----|-------|--------|-------|-------|--------|-----|-----|--------|-------|-----|
|                                            |                   |    | 1     | 2    | 3  | 1     | 2  | 3     | 1     | 2    | 3     | 1      | 2  | 3     | 1      | 2     | 3     | 1      | 2   | 3   | 1      | 2     | 3   |
| output/輸出端尺寸                               | B1                |    | 3     |      |    | 5     |    |       | 6     |      |       | 8      |    |       | 10     |       |       | 12     |     |     | 14     |       |     |
|                                            | C1                |    | M4×10 |      |    | M5×12 |    |       | M6×16 |      |       | M10×22 |    |       | M12x25 |       |       | M12×25 |     |     | M20×42 |       |     |
|                                            | H1                |    | 11.2  |      |    | 16    |    |       | 22.5  |      |       | 28     |    |       | 35     |       |       | 43     |     |     | 53.5   |       |     |
|                                            | D1                | Φ  | 34    |      |    | 52    |    |       | 70    |      |       | 100    |    |       | 120    |       |       | 145    |     |     | 185    |       |     |
|                                            | D2                | 4× | M4×6  |      |    | M5×8  |    |       | M6×10 |      |       | M10×16 |    |       | M10X16 |       |       | M12×20 |     |     | M12X25 |       |     |
|                                            | D3                | h7 | 10    |      |    | 14    |    |       | 20    |      |       | 25     |    |       | 32     |       |       | 40     |     |     | 50     |       |     |
|                                            | D4                |    | 12    |      |    | 17    |    |       | 25    |      |       | 35     |    |       | 45     |       |       | 55     |     |     | 70     |       |     |
|                                            | D5                | h7 | 26    |      |    | 40    |    |       | 60    |      |       | 80     |    |       | 100    |       |       | 130    |     |     | 160    |       |     |
|                                            | D7                |    | 40    |      |    | 60    |    |       | 80    |      |       | 115    |    |       | 140    |       |       | 162    |     |     | 215    |       |     |
|                                            | L1                |    | 15    |      |    | 25    |    |       | 25    |      |       | 40     |    |       | 55     |       |       | 65     |     |     | 70     |       |     |
|                                            | L2                |    | 2.5   |      |    | 2.5   |    |       | 4     |      |       | 5      |    |       | 6      |       |       | 8      |     |     | 8      |       |     |
|                                            | L3                |    | 23    |      |    | 30    |    |       | 36    |      |       | 50     |    |       | 70     |       |       | 80     |     |     | 85     |       |     |
|                                            | L4                |    | 26    |      |    | 35    |    |       | 40    |      |       | 55     |    |       | 75     |       |       | 85     |     |     | 100    |       |     |
|                                            | L5                |    | 2     |      |    | 3     |    |       | 3     |      |       | 4      |    |       | 5      |       |       | 5      |     |     | 15     |       |     |
|                                            | L7 <sup>(2)</sup> |    | 36.6  | 50.5 | 64 | 44.3  | 59 | 74.5  | 60    | 77.5 | 95    | 65.5   | 88 | 110.5 | 78     | 107.5 | 137   | 94.5   | 133 | 171 | 128    | 167.5 | 207 |
| L8                                         |                   | 49 |       |      | 75 |       |    | 103.6 |       |      | 125.5 |        |    | 140   |        |       | 151.2 |        |     | 205 |        |       |     |
| input <sup>(1)</sup> /輸入端尺寸 <sup>(1)</sup> | B2                |    | 2     |      |    | 3     |    |       | 5     |      |       | 6      |    |       | 8      |       |       | 10     |     |     | 12     |       |     |
|                                            | C2                |    | M3X6  |      |    | M3X6  |    |       | M5X10 |      |       | M6X12  |    |       | M12X24 |       |       | M12X24 |     |     | M16X30 |       |     |
|                                            | H2                |    | 8.8   |      |    | 11.2  |    |       | 18    |      |       | 22.5   |    |       | 28.5   |       |       | 38     |     |     | 43     |       |     |
|                                            | D11               | Φ  | 34    |      |    | 52    |    |       | 70    |      |       | 100    |    |       | 120    |       |       | 145    |     |     | 155    | 145   |     |
|                                            | D21               | 4× | M4X6  |      |    | M5X8  |    |       | M6X12 |      |       | M10X20 |    |       | M10X20 |       |       | M10X20 |     |     | M12X24 |       |     |
|                                            | D31               | h7 | 8     |      |    | 10    |    |       | 16    |      |       | 20     |    |       | 25     |       |       | 35     |     |     | 40     |       |     |
|                                            | D41               |    | 12    |      |    | 17    |    |       | 25    |      |       | 35     |    |       | 45     |       |       | 50     |     |     | 65     |       |     |
|                                            | D51               | h7 | 26    |      |    | 40    |    |       | 60    |      |       | 80     |    |       | 100    |       |       | 130    |     |     | 130    |       |     |
|                                            | L11               |    | 10    |      |    | 15    |    |       | 20    |      |       | 30     |    |       | 35     |       |       | 45     |     |     | 60     |       |     |
|                                            | L21               |    | 3.5   |      |    | 4     |    |       | 3     |      |       | 5      |    |       | 5      |       |       | 5      |     |     | 5      |       |     |
|                                            | L31               |    | 17    |      |    | 21    |    |       | 26    |      |       | 40     |    |       | 45     |       |       | 58     |     |     | 70     |       |     |
|                                            | L41               |    | 20    |      |    | 25    |    |       | 30    |      |       | 45     |    |       | 50     |       |       | 65     |     |     | 75     |       |     |
|                                            | L51               |    | 2     |      |    | 3     |    |       | 3     |      |       | 4      |    |       | 5      |       |       | 5      |     |     | 5      |       |     |

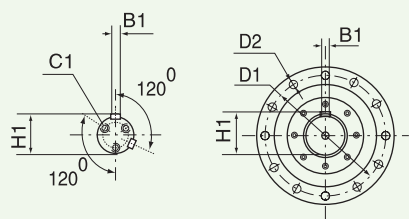




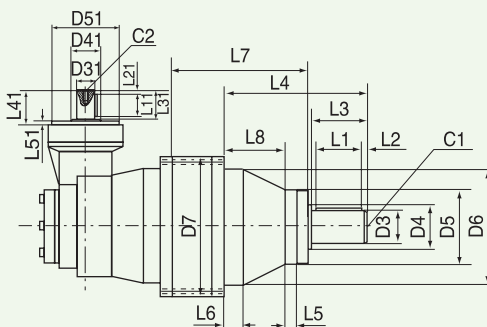
## WPL250-WPL800-OP1 shaft input mounting dimensions WPL250-WPL800-OP1 輸入軸型式外形安裝尺寸



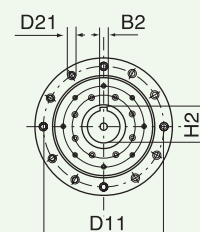
output 輸出



WPL450-WPL800



input 輸入



### Other shaft 用戶可選擇的輸出類型

| output shaft<br>輸出軸  | S <sub>1</sub> | shaft 光軸          | S <sub>2</sub> | shaft with key 單鍵軸   | S <sub>3</sub> | splined shaft 花鍵軸   | S <sub>t</sub>                   | special shaft 特殊軸  |
|----------------------|----------------|-------------------|----------------|----------------------|----------------|---------------------|----------------------------------|--------------------|
|                      |                |                   |                |                      |                |                     | According to customers<br>用戶要求制作 |                    |
| output hollow<br>輸出孔 | k <sub>1</sub> | hollow 光內孔(外配脹緊套) | k <sub>2</sub> | hollow with key 單鍵內孔 | k <sub>3</sub> | splined hollow 花鍵內孔 | k <sub>t</sub>                   | special hollow 特殊孔 |
|                      |                |                   |                |                      |                |                     | According to customers<br>用戶要求制作 |                    |

| Type stage<br>型號 段數         |                   |      | WPL250 |     |       |       | WPL300 |     |           |   | WPL350 |     |           |     | WPL400 |     |           |     | WPL450                      |     |     |     | WPL550                      |     |      |     | WPL700                       |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|-----------------------------|-------------------|------|--------|-----|-------|-------|--------|-----|-----------|---|--------|-----|-----------|-----|--------|-----|-----------|-----|-----------------------------|-----|-----|-----|-----------------------------|-----|------|-----|------------------------------|-----|-----|-----|------|--|-----|--|-----|--|-----|--|-----|--|--|--|
|                             |                   |      | 1      | 2   | 3     | 4     | 1      | 2   | 3         | 4 | 1      | 2   | 3         | 4   | 1      | 2   | 3         | 4   | 1                           | 2   | 3   | 4   | 1                           | 2   | 3    | 4   | 1                            | 2   | 3   | 4   |      |  |     |  |     |  |     |  |     |  |  |  |
| output/輸出端尺寸                | B1                |      | 22     |     |       |       | 25     |     |           |   | 28     |     |           |     | 32     |     |           |     | 36                          |     |     |     | 40                          |     |      |     | 45                           |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | C1                |      | M20X42 |     |       |       | M24X50 |     |           |   | M24X50 |     |           |     | M24X50 |     |           |     | 3-M16-120 <sup>0</sup> -Φ70 |     |     |     | 3-M16-120 <sup>0</sup> -Φ90 |     |      |     | 3-M16-120 <sup>0</sup> -Φ140 |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | H1                |      | 85     |     |       |       | 95     |     |           |   | 116    |     |           |     | 127    |     |           |     | 148                         |     |     |     | 179                         |     |      |     | 210                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | D1                | Φ    | 225    |     |       |       | 250    |     |           |   | 310    |     |           |     | 380    |     |           |     | 415                         |     |     |     | 503                         |     |      |     | 635                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | D2                |      | 12XM16 |     |       |       | 12XM16 |     |           |   | 12XM16 |     |           |     | 12XM16 |     |           |     | 18XM16                      |     |     |     | 18XM16                      |     |      |     | 24XM20                       |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | D3                | h7   | 80     |     |       |       | 90     |     |           |   | 110    |     |           |     | 120    |     |           |     | 140                         |     |     |     | 170                         |     |      |     | 200                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | D4                |      | 100    |     |       |       | 120    |     |           |   | 140    |     |           |     | 160    |     |           |     | 185                         |     |     |     | 220                         |     |      |     | 260                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | D5                | h7   |        |     |       |       |        |     |           |   | 225    |     |           |     | 230    |     |           |     | 260                         |     |     |     | 300                         |     |      |     |                              |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | D6                |      | 200    |     |       |       | 230    |     |           |   | 280    |     |           |     | 350    |     |           |     | 385                         |     |     |     | 460                         |     |      |     | 560                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | D7                |      | 265    |     |       |       | 300    |     |           |   | 360    |     |           |     | 425    |     |           |     | 450                         |     |     |     | 550                         |     |      |     | 700                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | L1                |      | 80     |     |       |       | 120    |     |           |   | 130    |     |           |     | 150    |     |           |     | 160                         |     |     |     | 200                         |     |      |     | 250                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | L2                |      | 8      |     |       |       | 5      |     |           |   | 5      |     |           |     | 5      |     |           |     | 5                           |     |     |     | 5                           |     |      |     | 5                            |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | L3                |      | 100    |     |       |       | 130    |     |           |   | 140    |     |           |     | 160    |     |           |     | 170                         |     |     |     | 210                         |     |      |     | 260                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | L4                |      | 115    |     |       |       | 153    |     |           |   | 271    |     |           |     | 375    |     |           |     | 367                         |     |     |     | 449                         |     |      |     | 412                          |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | L5                |      |        |     |       |       |        |     |           |   | 25     |     |           |     | 40     |     |           |     | 40                          |     |     |     | 32                          |     |      |     |                              |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | L6                |      | 15     |     |       |       | 18     |     |           |   | 8.5    |     |           |     | 10     |     |           |     | 13                          |     |     |     | 13                          |     |      |     | 20                           |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | L7 <sup>(2)</sup> |      | 164.5  | 219 | 237.5 | 274.5 | 190    | 300 | 350       |   | 190    | 300 | 350       | 400 | 240    | 315 | 385       | 445 | 245                         | 309 | 466 | 535 | 270                         | 450 | 535  | 610 | 310                          | 520 | 640 | 730 |      |  |     |  |     |  |     |  |     |  |  |  |
| input <sup>(1)</sup> /輸入端尺寸 | B2                |      | 14     |     | 10    |       | 18     |     | 14 (10)   |   | 20     |     | 18 (14)   |     | 22     |     | 20 (18)   |     | 25                          |     | 22  |     | 18                          |     | 14   |     | 25                           |     | 22  |     | 18   |  | 25  |  | 22  |  | 18  |  |     |  |  |  |
|                             | C2                |      | M12X26 |     |       |       | M12X26 |     |           |   | M16X35 |     |           |     | M16X35 |     |           |     | M16X35                      |     |     |     | M16X35                      |     |      |     | M16X35                       |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |
|                             | H2                |      | 51.5   |     | 41    |       | 64     |     | 51.5 (41) |   | 74.5   |     | 64(51.5)  |     | 85     |     | 74.5(64)  |     | 95                          |     | 85  |     | 64                          |     | 51.5 |     | 95                           |     | 69  |     | 51.5 |  | 95  |  | 85  |  | 64  |  |     |  |  |  |
|                             | D11               | Φ    | 170    |     | 155   |       | 200    |     | 170(155)  |   | 215    |     | 200(170)  |     | 250    |     | 215(200)  |     | 295                         |     | 250 |     | 195                         |     | 195  |     | 295                          |     | 195 |     | 195  |  | 295 |  | 250 |  | 195 |  |     |  |  |  |
|                             | D21               | 4/8X | M12    |     |       |       | M12    |     |           |   | M16    |     |           |     | M12    |     |           |     | M16                         |     |     |     | M12                         |     |      |     | M16                          |     |     |     | M12  |  |     |  | M16 |  |     |  | M12 |  |  |  |
|                             | D31               | h7   | 48     |     | 38    |       | 60     |     | 48 (38)   |   | 70     |     | 60 (48)   |     | 80     |     | 70 (60)   |     | 90                          |     | 80  |     | 60                          |     | 48   |     | 90                           |     | 65  |     | 48   |  | 90  |  | 80  |  | 60  |  |     |  |  |  |
|                             | D41               |      | 60     |     | 50    |       | 80     |     | 60 (50)   |   | 85     |     | 80 (60)   |     | 100    |     | 85 (80)   |     | 230                         |     | 200 |     | 150                         |     | 150  |     | 230                          |     | 150 |     | 150  |  | 230 |  | 200 |  | 150 |  |     |  |  |  |
|                             | D51               | h7   | 130    |     | 120   |       | 150    |     | 130 (120) |   | 160    |     | 150 (130) |     | 180    |     | 160 (150) |     | 325                         |     | 325 |     | 280                         |     | 220  |     | 325                          |     | 280 |     | 220  |  | 325 |  | 280 |  | 220 |  |     |  |  |  |
|                             | L11               |      | 65     |     | 50    |       | 80     |     | 65 (50)   |   | 90     |     | 80 (65)   |     | 110    |     | 90 (80)   |     | 160                         |     | 110 |     | 90                          |     | 62   |     | 160                          |     | 110 |     | 90   |  | 160 |  | 110 |  | 90  |  |     |  |  |  |
|                             | L21               |      | 7.5    |     | 5     |       | 7.5    |     | 5         |   | 10     |     | 7.5       |     | 10     |     | 7.5       |     | 7.5                         |     |     |     |                             |     |      |     | 7.5                          |     |     |     |      |  | 7.5 |  |     |  |     |  |     |  |  |  |
|                             | L31               |      | 80     |     | 60    |       | 95     |     | 80 (60)   |   | 110    |     | 95 (80)   |     | 130    |     | 110 (95)  |     | 170                         |     | 130 |     | 105                         |     | 82   |     | 170                          |     | 130 |     | 105  |  | 170 |  | 130 |  | 105 |  |     |  |  |  |
|                             | L41               |      | 90     |     | 70    |       | 110    |     | 90 (70)   |   | 125    |     | 110 (90)  |     | 145    |     | 125 (110) |     | 200                         |     | 145 |     | 125                         |     | 110  |     | 200                          |     | 145 |     | 125  |  | 200 |  | 145 |  | 125 |  |     |  |  |  |
|                             | L51               |      | 15     |     |       |       | 15     |     |           |   | 20     |     |           |     | 20     |     |           |     | 20                          |     |     |     | 20                          |     |      |     | 20                           |     |     |     |      |  |     |  |     |  |     |  |     |  |  |  |

(1) dimensions refer to the mounted motor-type, the size can be changed

(2) dimensions refer to the frame of the boxes, the size can be changed

(1) 這些參數都與所配電機的型號有關, 這些尺寸可以有變化

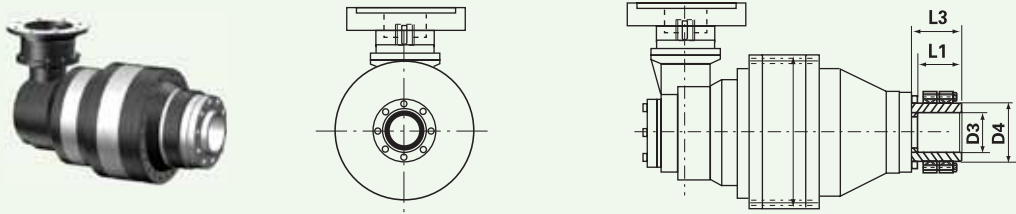
(2) 這些參數與減速機內部結構有關, 這些尺寸可以有變化

We make products devoutly, we hope you recognize our sincere and rigorous approach from each product and we will have confidence each other. We always seek to satisfy our customers. 我們以虔誠的態度製造產品, 希望通過每一個產品, 使您認識到我們的嚴謹與真誠, 籍此建立起相互的信任。您的滿意是我們永恒的追求。



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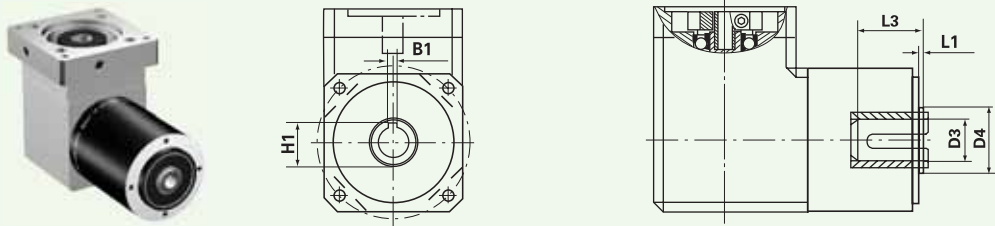
### WPL□k1 hollow 光內孔(外配脹緊套)



| Type stage<br>型號 段數 |     | WPL200K <sub>1</sub> | WPL250K <sub>1</sub> | WPL300K <sub>1</sub> | WPL350K <sub>1</sub> | WPL400K <sub>1</sub> | WPL450K <sub>1</sub> | WPL550K <sub>1</sub> | WPL700K <sub>1</sub> |
|---------------------|-----|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Size 尺寸             |     |                      |                      |                      |                      |                      |                      |                      |                      |
| D3                  | ΦH7 | 50                   | 75                   | 85                   | 110                  | 130                  | 140                  | 170                  | 200                  |
| D4                  | Φ   | 60                   | 90                   | 110                  | 140                  | 165                  | 185                  | 220                  | 260                  |
| L1                  | mm  | 50                   | 70                   | 90                   | 110                  | 120                  | 145                  | 170                  | 210                  |
| L3                  | mm  | 72                   | 100                  | 145                  | 160                  | 180                  | 205                  | 250                  | 307                  |

Other size is as same as WPL series 其它尺寸與WPL系列標準尺寸完全一致

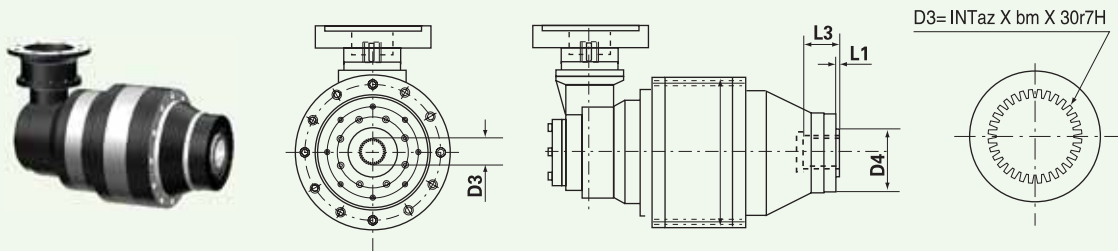
### WPL□k2 hollow with key 單鍵內孔



| Type stage<br>型號 段數 |     | WPL60K <sub>2</sub> | WPL80K <sub>2</sub> | WPL120K <sub>2</sub> | WPL140K <sub>2</sub> | WPL160K <sub>2</sub> | WPL200K <sub>2</sub> | WPL250K <sub>2</sub> | WPL300K <sub>2</sub> | WPL350K <sub>2</sub> | WPL400K <sub>2</sub> |
|---------------------|-----|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Size 尺寸             |     |                     |                     |                      |                      |                      |                      |                      |                      |                      |                      |
| B1                  | mm  | 3                   | 5                   | 6                    | 8                    | 10                   | 14                   | 14                   | 18                   | 20                   | 22                   |
| H1                  | mm  | 11.4                | 17                  | 22.8                 | 28.3                 | 38.3                 | 53.8                 | 58.8                 | 69.3                 | 74.8                 | 85.3                 |
| D3                  | ΦH7 | 10                  | 15                  | 20                   | 25                   | 35                   | 50                   | 55                   | 65                   | 70                   | 80                   |
| D4                  | Φ   | 19                  | 30                  | 40                   | 45                   | 55                   | 70                   | 75                   | 85                   | 90                   | 100                  |
| L1                  | mm  | 2                   | 2                   | 2                    | 2                    | 3                    | 3                    | 5                    | 5                    | 5                    | 5                    |
| L3                  | mm  | 20                  | 30                  | 38                   | 50                   | 60                   | 80                   | 80                   | 80                   | 100                  | 130                  |

Other size is as same as WPL series 其它尺寸與WPL系列標準尺寸完全一致

### WPL□k3 splined hollow 花鍵內孔



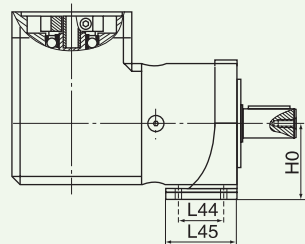
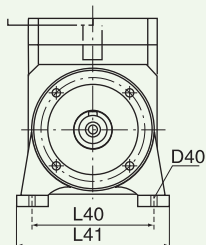
| Type stage<br>型號 段數 |    | WPL200K <sub>3</sub> | WPL250K <sub>3</sub> | WPL300K <sub>3</sub> | WPL350K <sub>3</sub> |
|---------------------|----|----------------------|----------------------|----------------------|----------------------|
| Size 尺寸             |    |                      |                      |                      |                      |
| D3                  |    | INT20zX2mX30rX7H     | INT25zX2mX30rX7H     | INT20zX3mX30rX7H     | INT25zX3mX30rX7H     |
| D4                  | Φ  | 70                   | 75                   | 85                   | 90                   |
| L1                  | mm | 3                    | 5                    | 5                    | 5                    |
| L3                  | mm | 60                   | 60                   | 65                   | 70                   |

| Type stage<br>型號 段數 |    | WPL400K <sub>3</sub> | WPL450K <sub>3</sub> | WPL550K <sub>3</sub> | WPL700K <sub>3</sub> |
|---------------------|----|----------------------|----------------------|----------------------|----------------------|
| Size 尺寸             |    |                      |                      |                      |                      |
| D3                  |    | INT20zX4mX30rX7H     | INT42zX3mX30rX7H     | INT30zX5mX30rX7H     | INT36zX5mX30rX7H     |
| D4                  | Φ  | 100                  | 135                  | 160                  | 190                  |
| L1                  | mm | 5                    | 5                    | 5                    | 5                    |
| L3                  | mm | 80                   | 80                   | 100                  | 123                  |

Other size is as same as WPL series 其它尺寸與WPL系列標準尺寸完全一致

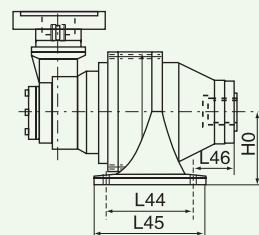
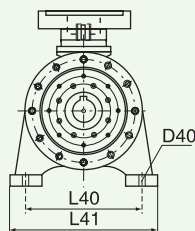


## WPL40-WPL800-OP4 foot mounting dimensions WPL40-WPL800-OP4 底脚型式安裝尺寸



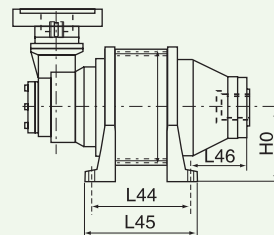
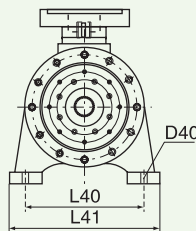
| Type stage<br>Size尺寸 | 型號 段數 | WPL40 | WPL60 | WPL80 | WPL120 | WPL140 | WPL160 | WPL200 |
|----------------------|-------|-------|-------|-------|--------|--------|--------|--------|
| H0                   |       | 45    | 55    | 75    | 100    | 110    | 120    | 160    |
| D40                  | 4-Φ   | 7     | 7     | 9     | 11     | 11     | 13     | 17     |
| L40                  | mm    | 40    | 50    | 75    | 100    | 110    | 120    | 160    |
| L41                  | mm    | 60    | 70    | 100   | 130    | 140    | 160    | 200    |
| L44                  | mm    | 70    | 90    | 110   | 150    | 175    | 190    | 240    |
| L45                  | mm    | 88    | 108   | 130   | 176    | 200    | 220    | 276    |

Other size is as same as WPL40-WPL200 series 其它尺寸與WPL40-WPL200系列標準尺寸完全一致



| Type stage<br>Size尺寸 | 型號 段數 | WPL250 | WPL300 | WPL350 | WPL400 |
|----------------------|-------|--------|--------|--------|--------|
| H0                   |       | 160    | 200    | 225    | 250    |
| D40                  | 4-Φ   | 19     | 19     | 24     | 24     |
| L40                  | mm    | 254    | 310    | 360    | 410    |
| L41                  | mm    | 310    | 380    | 445    | 500    |
| L44                  | mm    | 250    | 300    | 320    | 350    |
| L45                  | mm    | 300    | 370    | 420    | 450    |
| L46                  | mm    |        | 75     | 95     | 115    |

Other size is as same as WPL250-WPL400 series 其它尺寸與WPL250-WPL400系列標準尺寸完全一致



| Type stage<br>Size尺寸 | 型號 段數 | WPL450 | WPL550 | WPL700 | WPL800 |
|----------------------|-------|--------|--------|--------|--------|
| H0                   |       | 280    | 315    | 415    |        |
| D40                  | 4-Φ   | 33     | 39     | 45     |        |
| L40                  | mm    | 457    | 508    | 700    |        |
| L41                  | mm    | 550    | 620    | 850    |        |
| L44                  | mm    | 404    | 439    | 480    |        |
| L45                  | mm    | 482    | 562    | 680    |        |
| L46                  | mm    | 112.5  | 169    | 27     |        |

Other size is as same as WPL450-WPL800 series 其它尺寸與WPL450-WPL800系列標準尺寸完全一致

We make products devoutly, we hope you recognize our sincere and rigorous approach from each product and we will have confidence each other. We always seek to satisfy our customers. 我們以虔誠的態度製造產品，希望通過每一個產品，使您認識到我們的嚴謹與真誠，藉此建立起相互的信任。您的滿意是我們永恒的追求。



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