



SFT-L >



SFT-FL >



SFTB-L >



SFTB-FL >



SFT-H >



SFTB-H >



SFT-FH >



SFT-C >



# SFT/SFTB 系列

不锈钢

铸铁

## 高精度螺旋伞齿减速机

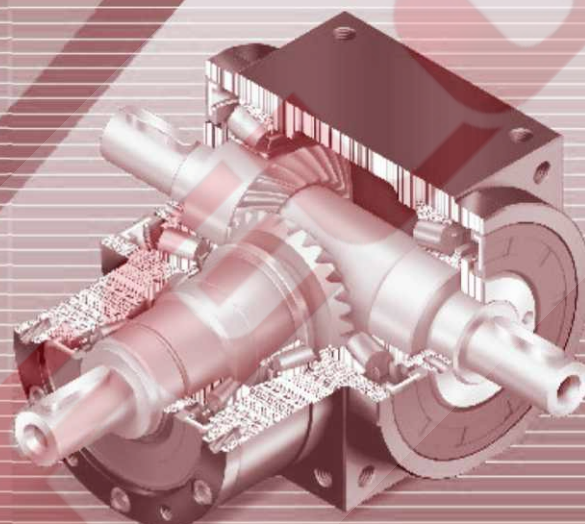
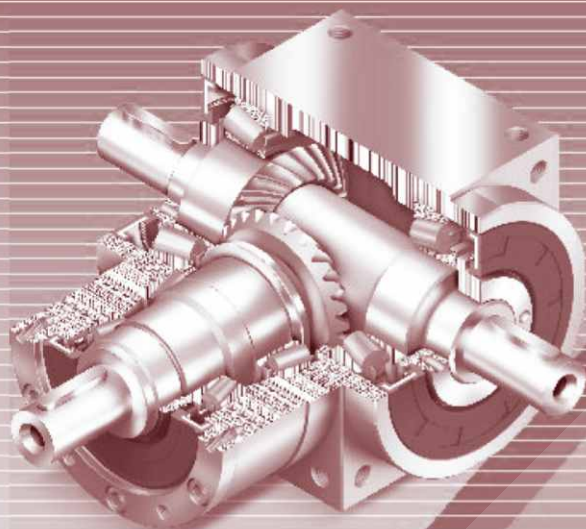
SFT-FC >



SFT-4M >



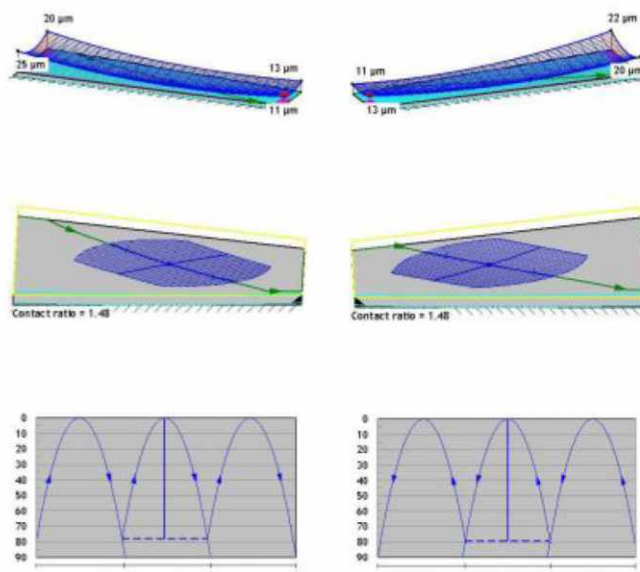
## SFT-L



## SFTB-L

SFTB 系列的材質，箱體為染黑鑄鐵，輸出入軸為合金鋼。

- ▶ 一體化不鏽鋼本體確保最大剛性與耐蝕性，多重精密加工表面易於組裝。
- ▶ 採用頂級蜗線傘齒輪的設計軟體，經最佳化設計接觸齒面負載均一容許高扭矩輸出，齒輪採高強度滲碳合金鋼，研磨精密度符合 DIN 5 級標準以內。
- ▶ 多重不鏽鋼輸出入力軸的設計可以適用於各種工業上應用的需求。
- ▶ 高精密研磨的蜗線傘齒輪組結合最佳化設計的行星式齒輪組可以達到 500:1 的減速比。
- ▶ 高扭矩低背隙的精簡結構設計適用於精密伺服的應用。
- ▶ 專利的油封設計，免保養無需更換潤滑油，運轉壽命長。





## SFT/SFTB 轴型系列

## 产品规格

減速機性能資料 SFTB系列的性能规范与SFT系列相同。

| 規 格                                   |        |   | 節 數 | 比 數          | SFT065 L  | SFT075 L  | SFT090 L  | SFT110 L  | SFT140 L  | SFT170 L  | SFT210 L  | SFT240 L  | SFT280 L  |
|---------------------------------------|--------|---|-----|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                       |        |   |     |              | SFT065 L1 | SFT075 L1 | SFT090 L1 | SFT110 L1 | SFT140 L1 | SFT170 L1 | SFT210 L1 | SFT240 L1 | SFT280 L1 |
|                                       |        |   |     |              | SFT065 H  | SFT075 H  | SFT090 H  | SFT110 H  | SFT140 H  | SFT170 H  | SFT210 H  | SFT240 H  | SFT280 H  |
|                                       |        |   |     |              | SFT065 C  | SFT075 C  | SFT090 C  | SFT110 C  | SFT140 C  | SFT170 C  | SFT210 C  | SFT240 C  | SFT280 C  |
|                                       |        |   |     |              | SFT065 R1 | SFT075 R1 | SFT090 R1 | SFT110 R1 | SFT140 R1 | SFT170 R1 | SFT210 R1 | SFT240 R1 | SFT280 R1 |
|                                       |        |   |     |              | SFT065 LM | SFT075 LM | SFT090 LM | SFT110 LM | SFT140 LM | SFT170 LM | SFT210 LM | SFT240 LM | SFT280 LM |
|                                       |        |   |     |              | SFT065 RM | SFT075 RM | SFT090 RM | SFT110 RM | SFT140 RM | SFT170 RM | SFT210 RM | SFT240 RM | SFT280 RM |
|                                       |        |   |     |              | SFT065 4M | SFT075 4M | SFT090 4M | SFT110 4M | SFT140 4M | SFT170 4M | SFT210 4M | SFT240 4M | SFT280 4M |
| 額定輸出力矩 $T_{2N}$                       | Nm     | 1 | 1   | 25           | 45        | 78        | 150       | 360       | 585       | 1,300     | 2,150     | 3,200     |           |
|                                       |        |   | 1.5 | 25           | 45        | 78        | 150       | 360       | 585       | 1,300     | 2,150     | 3,200     |           |
|                                       |        |   | 2   | 24           | 42        | 68        | 150       | 330       | 544       | 1,220     | 2,010     | 3,050     |           |
|                                       |        |   | 3   | 18           | 33        | 54        | 120       | 270       | 450       | 1,020     | 1,650     | 2,850     |           |
|                                       |        |   | 4   | 13           | 28        | 48        | 100       | 224       | 376       | 860       | 1,410     | 2,300     |           |
|                                       |        |   | 5   | 12           | 25        | 40        | 85        | 196       | 320       | 740       | 1,210     | 2,000     |           |
| 最大加速力矩 $T_{2B}$                       | Nm     | 1 | 1~5 | 1.5 倍額定輸出力矩  |           |           |           |           |           |           |           |           |           |
| 最大加速輸入轉速 $n_{1B}$                     | rpm    | 1 | 1~5 | 7,500        | 6,500     | 5,500     | 4,500     | 3,500     | 3,000     | 2,200     | 2,000     | 1,700     |           |
| 背隙 <sup>D</sup>                       | arcmin | 1 | 1~5 | ≤6           | ≤6        | ≤6        | ≤6        | ≤6        | ≤6        | ≤6        | ≤6        | ≤6        |           |
| 容許徑向力 $F_{1B}$ <sup>C</sup><br>輸入軸 d1 | N      | 1 | 1~5 | 700          | 950       | 1,450     | 2,100     | 2,700     | 3,800     | 7,800     | 9,600     | 10,500    |           |
| 容許徑向力 $F_{2B}$ <sup>D</sup><br>輸出軸 d2 | N      | 1 | 1~5 | 900          | 1,100     | 1,700     | 2,700     | 4,800     | 6,600     | 11,500    | 16,000    | 18,000    |           |
| 容許軸向力 $F_{1B}$ <sup>C</sup><br>輸入軸 d1 | N      | 1 | 1~5 | 350          | 425       | 725       | 1,050     | 1,350     | 1,900     | 3,900     | 4,800     | 5,250     |           |
| 容許軸向力 $F_{2B}$ <sup>D</sup><br>輸出軸 d2 | N      | 1 | 1~5 | 450          | 550       | 850       | 1,350     | 2,400     | 3,300     | 5,750     | 8,500     | 9,000     |           |
| 使用壽命 <sup>E</sup>                     | hr     | 1 | 1~5 | 20,000       |           |           |           |           |           |           |           |           |           |
| 效率 $\eta$                             | %      | 1 | 1~5 | ≥98%         |           |           |           |           |           |           |           |           |           |
| 使用溫度                                  | °C     | 1 | 1~5 | -10°C ~ 90°C |           |           |           |           |           |           |           |           |           |
| 潤滑                                    |        |   |     | 合成潤滑油脂       |           |           |           |           |           |           |           |           |           |
| 噪音值 ( $n_1=1500\text{rpm}$ , 無負載)     | dB (A) | 1 | 1~5 | ≤68          | ≤70       | ≤74       | ≤76       | ≤77       | ≤78       | ≤80       | ≤82       | ≤83       |           |

減速機轉動慣量 SFTB系列的性能规范与SFT系列相同。

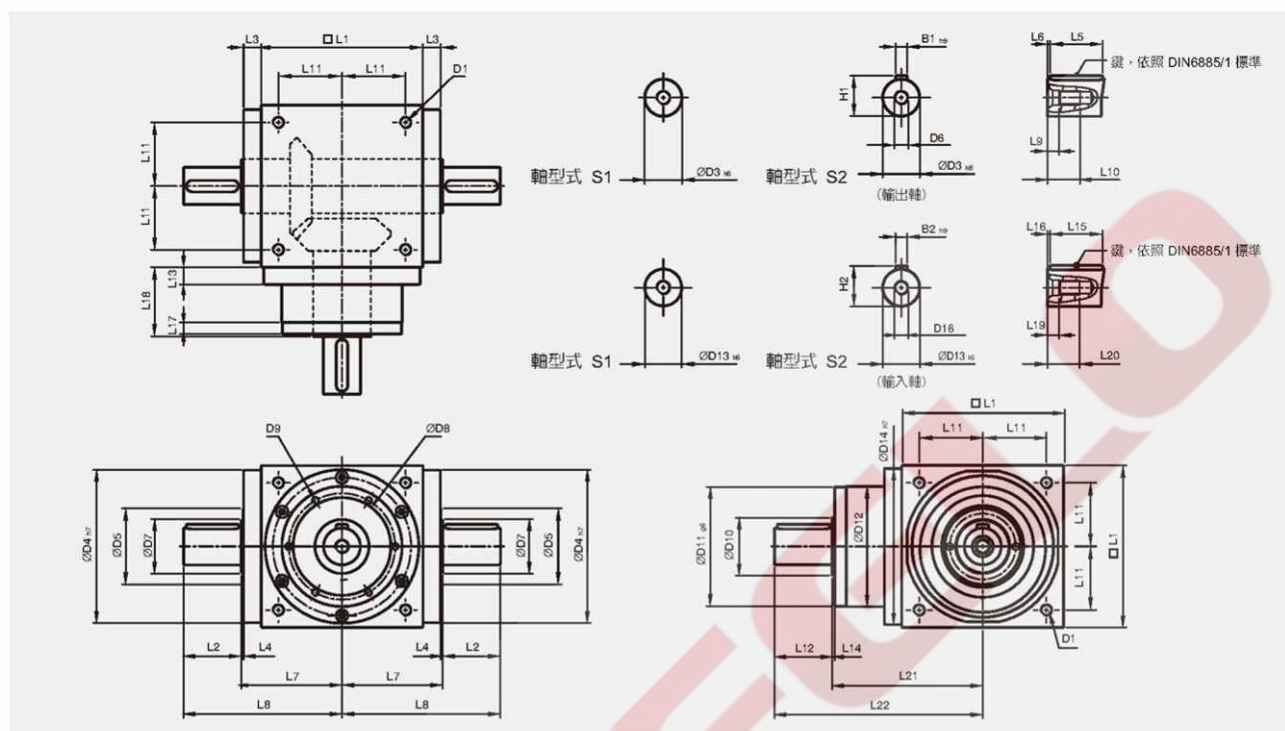
| 規 格                 | 節 數                  | 比 數 | SFT065 L  | SFT075 L  | SFT090 L  | SFT110 L  | SFT140 L  | SFT170 L  | SFT210 L  | SFT240 L  | SFT280 L  |        |
|---------------------|----------------------|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|                     |                      |     | SFT065 L1 | SFT075 L1 | SFT090 L1 | SFT110 L1 | SFT140 L1 | SFT170 L1 | SFT210 L1 | SFT240 L1 | SFT280 L1 |        |
|                     |                      |     | SFT065 H  | SFT075 H  | SFT090 H  | SFT110 H  | SFT140 H  | SFT170 H  | SFT210 H  | SFT240 H  | SFT280 H  |        |
|                     |                      |     | SFT065 C  | SFT075 C  | SFT090 C  | SFT110 C  | SFT140 C  | SFT170 C  | SFT210 C  | SFT240 C  | SFT280 C  |        |
|                     |                      |     | SFT065 R1 | SFT075 R1 | SFT090 R1 | SFT110 R1 | SFT140 R1 | SFT170 R1 | SFT210 R1 | SFT240 R1 | SFT280 R1 |        |
|                     |                      |     | SFT065 LM | SFT075 LM | SFT090 LM | SFT110 LM | SFT140 LM | SFT170 LM | SFT210 LM | SFT240 LM | SFT280 LM |        |
|                     |                      |     | SFT065 RM | SFT075 RM | SFT090 RM | SFT110 RM | SFT140 RM | SFT170 RM | SFT210 RM | SFT240 RM | SFT280 RM |        |
|                     |                      |     | SFT065 4M | SFT075 4M | SFT090 4M | SFT110 4M | SFT140 4M | SFT170 4M | SFT210 4M | SFT240 4M | SFT280 4M |        |
| 轉動慣量 J <sub>1</sub> | kg · cm <sup>2</sup> | 1   | 1         | 0.51      | 1.30      | 3.16      | 7.70      | 23.57     | 58.99     | 195.40    | 369.34    | 799.12 |
|                     |                      |     | 1.5       | 0.64      | 1.16      | 2.82      | 6.74      | 19.37     | 49.28     | 155.45    | 283.58    | 595.78 |
|                     |                      |     | 2         | 0.44      | 1.11      | 2.70      | 6.31      | 17.75     | 45.35     | 140.24    | 249.74    | 511.76 |
|                     |                      |     | 3         | 0.43      | 1.09      | 2.66      | 6.17      | 17.18     | 44.01     | 134.95    | 237.71    | 483.06 |
|                     |                      |     | 4         | 0.43      | 1.09      | 2.65      | 6.13      | 17.06     | 43.70     | 133.58    | 234.72    | 476.26 |
|                     |                      |     | 5         | 0.43      | 1.09      | 2.65      | 6.12      | 17.02     | 43.60     | 133.14    | 233.67    | 473.58 |

## 重量



## SFT-L/SFTB-L 系列

尺寸 (单节, 减速比 $i=1-5$ )



\* SFTB系列的尺寸与SFT系列相同。

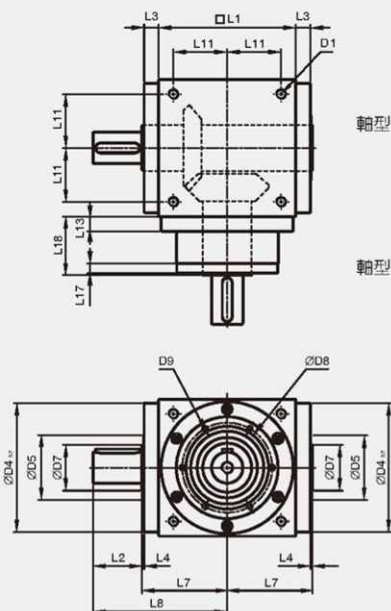
(單位：mm)

| 尺寸     | SFT065L | SFT075L | SFT090L | SFT110L  | SFT140L  | SFT170L    | SFT210L    | SFT240L    | SFT280L   |
|--------|---------|---------|---------|----------|----------|------------|------------|------------|-----------|
| D1     | M4      | M6      | M6      | M8       | M10      | M12        | M16        | M16        | M16       |
| D3 k6  | 13      | 16      | 18      | 22       | 32       | 40         | 50         | 55         | 60        |
| D4 h7  | 63      | 73      | 88      | 108      | 135      | 165        | 205        | 235        | 275       |
| D5     | 31      | 35      | 43      | 53       | 68       | 83         | 104        | 124        | 144       |
| D6     | M4      | M5      | M5      | M8       | M12      | M16        | M16        | M16        | M20       |
| D7     | 21      | 22      | 28      | 33       | 47       | 55         | 75         | 85         | 110       |
| D8     | 53      | 62      | 76      | 95       | 92       | 114        | 142        | 160        | 176       |
| D9     | 4xM4xL7 | 4xM5xL8 | 4xM5xL8 | 6xM6xL10 | 6xM6xL10 | 6xM8xL12.5 | 6xM8xL12.5 | 6xM8xL12.5 | 6xM10xL15 |
| D10    | 15.4    | 20.4    | 25.8    | 35.8     | 49.8     | 59.3       | 79.3       | 92.3       | 102.3     |
| D11 g6 | 62.9    | 72.9    | 87      | 107      | 103      | 127        | 158        | 178        | 198       |
| D12    | 62      | 72      | 86      | 106      | 104      | 128        | 160        | 180        | 200       |
| D13 k6 | 13      | 16      | 18      | 22       | 32       | 40         | 50         | 55         | 60        |
| D14 h7 | 63      | 73      | 88      | 108      | 135      | 165        | 205        | 235        | 275       |
| D16    | M4      | M5      | M5      | M8       | M12      | M16        | M16        | M16        | M20       |
| L1     | 65      | 75      | 90      | 110      | 140      | 170        | 210        | 240        | 280       |
| L2     | 19.5    | 30      | 35      | 40       | 50       | 60         | 75         | 85         | 110       |
| L3     | 13      | 14.5    | 15      | 15       | 15       | 15         | 20         | 25         | 25        |
| L4     | 2       | 2       | 2       | 2        | 2        | 2          | 2          | 2          | 2         |
| L5     | 16      | 25      | 28      | 32       | 45       | 50         | 70         | 80         | 100       |
| L6     | 2       | 2.5     | 3.5     | 4        | 2.5      | 5          | 2.5        | 2.5        | 5         |
| L7     | 47.5    | 54      | 62      | 72       | 87       | 102        | 127        | 147        | 167       |
| L8     | 67      | 84      | 97      | 112      | 137      | 162        | 202        | 232        | 277       |
| L9     | 4.5     | 4.8     | 4.8     | 7.2      | 10       | 12         | 12         | 12         | 15        |
| L10    | 10      | 12.5    | 12.5    | 19       | 28       | 36         | 36         | 36         | 42        |
| L11    | 27      | 30      | 36      | 44       | 55       | 67         | 85         | 95         | 110       |
| L12    | 19.5    | 30      | 35      | 40       | 50       | 60         | 75         | 85         | 110       |
| L13    | 13      | 15      | 15      | 15       | 15       | 15         | 20         | 25         | 25        |
| L14    | 2       | 2       | 2       | 2        | 2        | 2          | 2          | 2          | 2         |
| L15    | 16      | 25      | 28      | 32       | 45       | 50         | 70         | 80         | 100       |
| L16    | 2       | 2.5     | 3.5     | 4        | 2.5      | 5          | 2.5        | 2.5        | 5         |
| L17    | 6       | 8       | 8       | 8        | 10       | 10         | 10         | 10         | 10        |
| L18    | 43      | 52.5    | 55      | 60       | 60       | 70         | 90         | 105        | 120       |
| L19    | 4.5     | 4.8     | 4.8     | 7.2      | 10       | 12         | 12         | 12         | 15        |
| L20    | 10      | 12.5    | 12.5    | 19       | 28       | 36         | 36         | 36         | 42        |
| L21    | 75.5    | 90      | 100     | 115      | 130      | 155        | 195        | 225        | 260       |
| L22    | 95      | 120     | 135     | 155      | 180      | 215        | 270        | 310        | 370       |
| B1 h9  | 5       | 5       | 6       | 6        | 10       | 12         | 14         | 16         | 18        |
| B2 h9  | 5       | 5       | 6       | 6        | 10       | 12         | 14         | 16         | 18        |
| H1     | 15      | 18      | 20.5    | 24.5     | 35       | 43         | 53.5       | 59         | 64        |
| H2     | 15      | 18      | 20.5    | 24.5     | 35       | 43         | 53.5       | 59         | 64        |

SFT-L1/R1 / SFTB-L1/R1 系列

尺寸 (单节, 减速比*i*=1-5)

SFT-L1

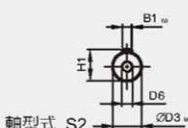


轴型式 S1

轴型式 S2

轴型式 S1

轴型式 S2



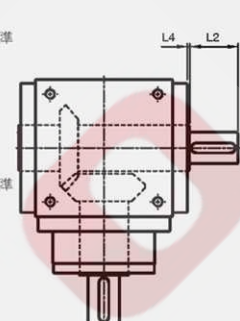
(输出轴)

(输入轴)

(输出轴)

(输入轴)

SFT-R1



键, 依照 DIN6885/1 标准

键, 依照 DIN6885/1 标准

\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

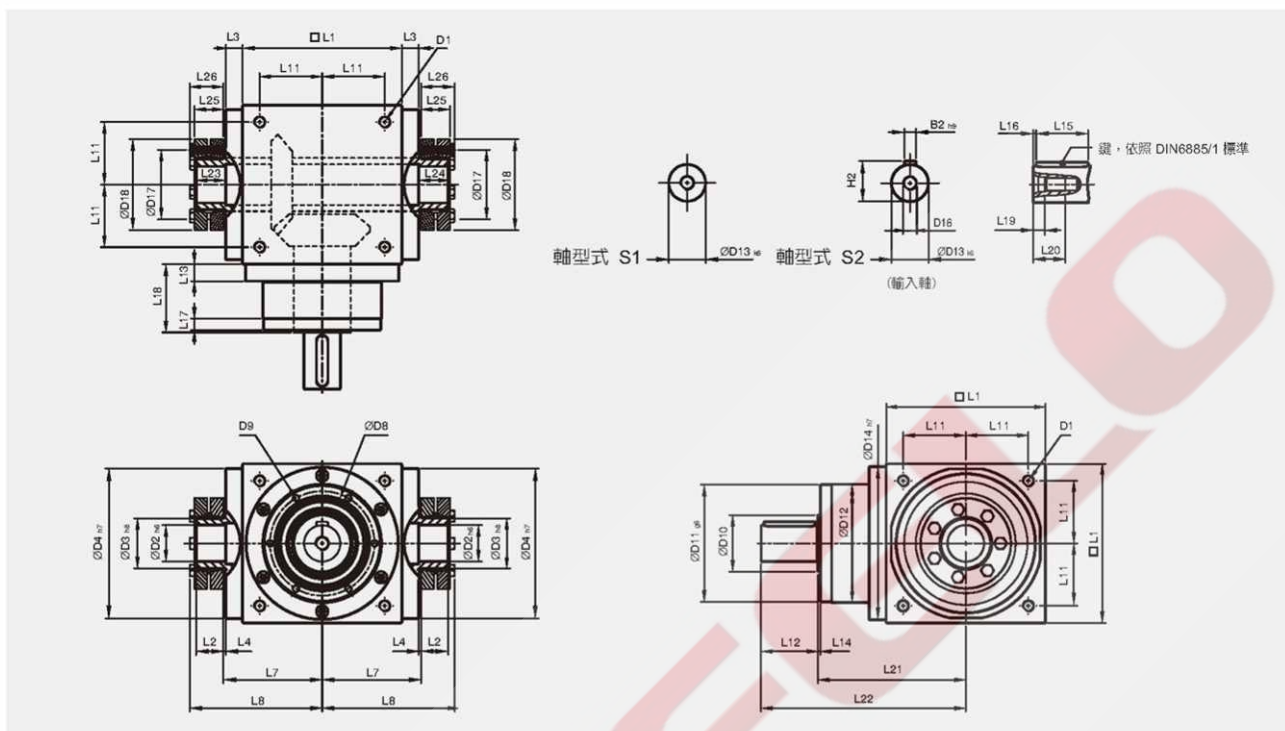
| 尺寸     | SFT065 L1/R1 | SFT075 L1/R1 | SFT090 L1/R1 | SFT110 L1/R1 | SFT140 L1/R1 | SFT170 L1/R1 | SFT210 L1/R1 | SFT240 L1/R1 | SFT280 L1/R1 |
|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| D1     | M4           | M6           | M6           | M8           | M10          | M12          | M16          | M16          | M16          |
| D3 k6  | 13           | 16           | 18           | 22           | 32           | 40           | 50           | 55           | 60           |
| D4 h7  | 63           | 73           | 88           | 108          | 135          | 165          | 205          | 235          | 275          |
| D5     | 31           | 35           | 43           | 53           | 68           | 83           | 104          | 124          | 144          |
| D6     | M4           | M5           | M5           | M8           | M12          | M16          | M16          | M16          | M20          |
| D7     | 21           | 22           | 28           | 33           | 47           | 55           | 75           | 85           | 110          |
| D8     | 53           | 62           | 76           | 95           | 92           | 114          | 142          | 160          | 176          |
| D9     | 4xM4xL7      | 4xM5xL8      | 4xM5xL8      | 6xM6xL10     | 6xM6xL10     | 6xM8xL12.5   | 6xM8xL12.5   | 6xM8xL12.5   | 6xM10xL15    |
| D10    | 15.4         | 20.4         | 25.8         | 35.8         | 49.8         | 59.3         | 79.3         | 92.3         | 102.3        |
| D11 g6 | 62.9         | 72.9         | 87           | 107          | 103          | 127          | 158          | 178          | 198          |
| D12    | 62           | 72           | 86           | 106          | 104          | 128          | 160          | 180          | 200          |
| D13 k6 | 13           | 16           | 18           | 22           | 32           | 40           | 50           | 55           | 60           |
| D14 h7 | 63           | 73           | 88           | 108          | 135          | 165          | 205          | 235          | 275          |
| D16    | M4           | M5           | M5           | M8           | M12          | M16          | M16          | M16          | M20          |
| L1     | 65           | 75           | 90           | 110          | 140          | 170          | 210          | 240          | 280          |
| L2     | 19.5         | 30           | 35           | 40           | 50           | 60           | 75           | 85           | 110          |
| L3     | 13           | 14.5         | 15           | 15           | 15           | 15           | 20           | 25           | 25           |
| L4     | 2            | 2            | 2            | 2            | 2            | 2            | 2            | 2            | 2            |
| L5     | 16           | 25           | 28           | 32           | 45           | 50           | 70           | 80           | 100          |
| L6     | 2            | 2.5          | 3.5          | 4            | 2.5          | 5            | 2.5          | 2.5          | 5            |
| L7     | 47.5         | 54           | 62           | 72           | 87           | 102          | 127          | 147          | 167          |
| L8     | 67           | 84           | 97           | 112          | 137          | 162          | 202          | 232          | 277          |
| L9     | 4.5          | 4.8          | 4.8          | 7.2          | 10           | 12           | 12           | 12           | 15           |
| L10    | 10           | 12.5         | 12.5         | 19           | 28           | 36           | 36           | 36           | 42           |
| L11    | 27           | 30           | 36           | 44           | 55           | 67           | 85           | 95           | 110          |
| L12    | 19.5         | 30           | 35           | 40           | 50           | 60           | 75           | 85           | 110          |
| L13    | 13           | 15           | 15           | 15           | 15           | 15           | 20           | 25           | 25           |
| L14    | 2            | 2            | 2            | 2            | 2            | 2            | 2            | 2            | 2            |
| L15    | 16           | 25           | 28           | 32           | 45           | 50           | 70           | 80           | 100          |
| L16    | 2            | 2.5          | 3.5          | 4            | 2.5          | 5            | 2.5          | 2.5          | 5            |
| L17    | 6            | 8            | 8            | 8            | 10           | 10           | 10           | 10           | 10           |
| L18    | 43           | 52.5         | 55           | 60           | 60           | 70           | 90           | 105          | 120          |
| L19    | 4.5          | 4.8          | 4.8          | 7.2          | 10           | 12           | 12           | 12           | 15           |
| L20    | 10           | 12.5         | 12.5         | 19           | 28           | 36           | 36           | 36           | 42           |
| L21    | 75.5         | 90           | 100          | 115          | 130          | 155          | 195          | 225          | 260          |
| L22    | 95           | 120          | 135          | 155          | 180          | 215          | 270          | 310          | 370          |
| B1 h9  | 5            | 5            | 6            | 6            | 10           | 12           | 14           | 16           | 18           |
| B2 h9  | 5            | 5            | 6            | 6            | 10           | 12           | 14           | 16           | 18           |
| H1     | 15           | 18           | 20.5         | 24.5         | 35           | 43           | 53.5         | 59           | 64           |
| H2     | 15           | 18           | 20.5         | 24.5         | 35           | 43           | 53.5         | 59           | 64           |





# SFT-C/SFTB-C 系列

尺寸 (单节, 减速比*i*=1-5)



\* SFTB系列的尺寸与SFT系列相同。

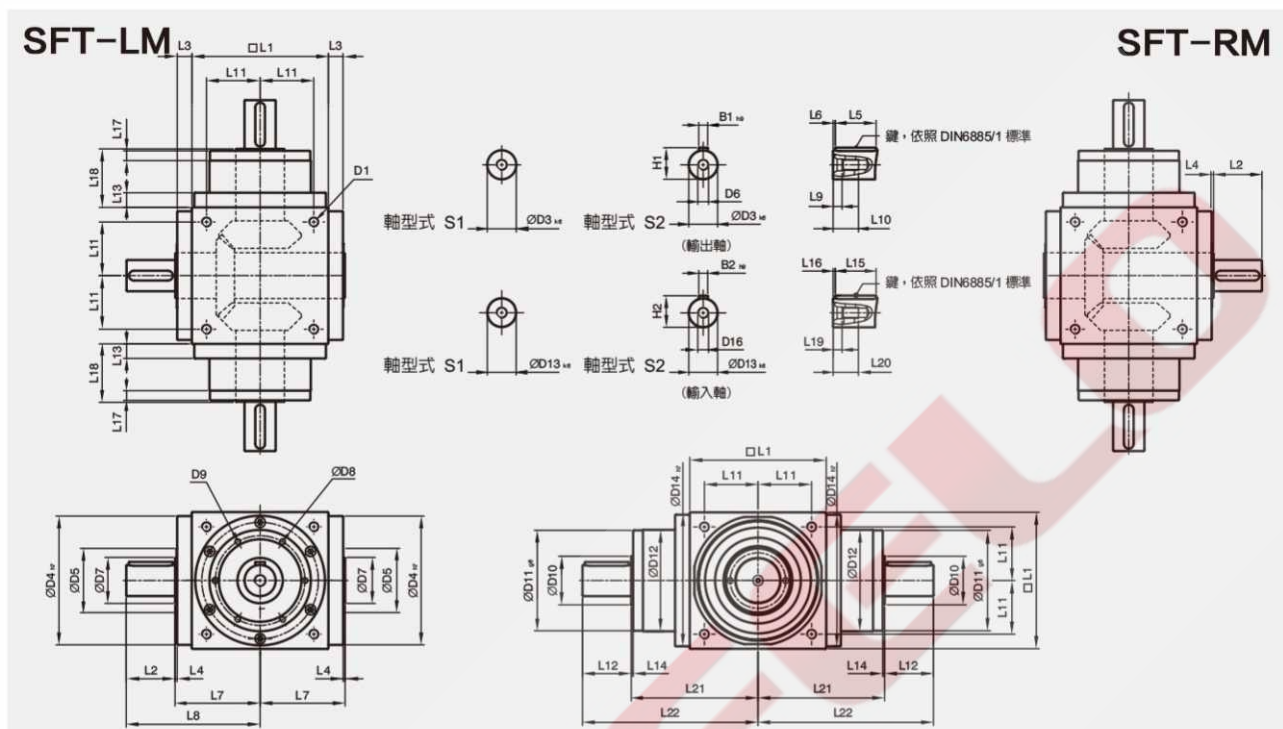
(单位: mm)

| 尺寸     | SFT065 C | SFT075 C | SFT090 C | SFT110 C | SFT140 C | SFT170 C   | SFT210 C   | SFT240 C   | SFT280 C  |
|--------|----------|----------|----------|----------|----------|------------|------------|------------|-----------|
| D1     | M4       | M6       | M6       | M8       | M10      | M12        | M16        | M16        | M16       |
| D2 H6  | 13       | 14       | 18       | 22       | 32       | 40         | 50         | 55         | 60        |
| D3 h8  | 16       | 16       | 22       | 25       | 44       | 50         | 62         | 68         | 75        |
| D4 h7  | 63       | 73       | 88       | 108      | 135      | 165        | 205        | 235        | 275       |
| D8     | 53       | 62       | 76       | 95       | 92       | 114        | 142        | 160        | 176       |
| D9     | 4xM4xL7  | 4xM5xL8  | 4xM5xL8  | 6xM6xL10 | 6xM6xL10 | 6xM8xL12.5 | 6xM8xL12.5 | 6xM8xL12.5 | 6xM10xL15 |
| D10    | 15.4     | 20.4     | 25.8     | 35.8     | 49.8     | 59.3       | 79.3       | 92.3       | 102.3     |
| D11 g6 | 62.9     | 72.9     | 87       | 107      | 103      | 127        | 158        | 178        | 198       |
| D12    | 62       | 72       | 86       | 106      | 104      | 128        | 160        | 180        | 200       |
| D13 k6 | 13       | 16       | 18       | 22       | 32       | 40         | 50         | 55         | 60        |
| D14 h7 | 63       | 73       | 88       | 108      | 135      | 165        | 205        | 235        | 275       |
| D16    | M4       | M5       | M5       | M8       | M12      | M16        | M16        | M16        | M20       |
| D17    | 26       | 26       | 36       | 38       | 61       | 70         | 86         | 86         | 100       |
| D18    | 41       | 41       | 50       | 50       | 80       | 90         | 110        | 115        | 138       |
| L1     | 65       | 75       | 90       | 110      | 140      | 170        | 210        | 240        | 280       |
| L2     | 14       | 14       | 18       | 18       | 24       | 26         | 29         | 29         | 30.5      |
| L3     | 13       | 14.5     | 15       | 15       | 15       | 15         | 20         | 25         | 25        |
| L4     | 2        | 2        | 2        | 2        | 2        | 2          | 2          | 2          | 2         |
| L7     | 47.5     | 54       | 62       | 72       | 87       | 102        | 127        | 147        | 167       |
| L8     | 66       | 72.5     | 85       | 95       | 116.5    | 133.5      | 161.5      | 181.5      | 205       |
| L11    | 27       | 30       | 36       | 44       | 55       | 67         | 85         | 95         | 110       |
| L12    | 19.5     | 30       | 35       | 40       | 50       | 60         | 75         | 85         | 110       |
| L13    | 13       | 15       | 15       | 15       | 15       | 15         | 20         | 25         | 25        |
| L14    | 2        | 2        | 2        | 2        | 2        | 2          | 2          | 2          | 2         |
| L15    | 16       | 25       | 28       | 32       | 45       | 50         | 70         | 80         | 100       |
| L16    | 2        | 2.5      | 3.5      | 4        | 2.5      | 5          | 2.5        | 2.5        | 5         |
| L17    | 6        | 8        | 8        | 8        | 10       | 10         | 10         | 10         | 10        |
| L18    | 43       | 52.5     | 55       | 60       | 60       | 70         | 90         | 105        | 120       |
| L19    | 4.5      | 4.8      | 4.8      | 7.2      | 10       | 12         | 12         | 12         | 15        |
| L20    | 10       | 12.5     | 12.5     | 19       | 28       | 36         | 36         | 36         | 42        |
| L21    | 75.5     | 90       | 100      | 115      | 130      | 155        | 195        | 225        | 260       |
| L22    | 95       | 120      | 135      | 155      | 180      | 215        | 270        | 310        | 370       |
| L23    | 15       | 15       | 20       | 20       | 26       | 28         | 31         | 31         | 32.5      |
| L24    | 15       | 15       | 20       | 20       | 26       | 28         | 31         | 31         | 32.5      |
| L25    | 15       | 15       | 19.5     | 19.5     | 25.5     | 27.5       | 30.5       | 30.5       | 32.5      |
| L26    | 18.5     | 18.5     | 23       | 23       | 29.5     | 31.5       | 34.5       | 34.5       | 38        |
| B2 h9  | 5        | 5        | 6        | 6        | 10       | 12         | 14         | 16         | 18        |
| H2     | 15       | 18       | 20.5     | 24.5     | 35       | 43         | 53.5       | 59         | 64        |



SFT-LM/RM / SFTB-LM/RM 系列

尺寸 (单节, 减速比*i*=1)



\* SFTB系列的尺寸与SFT系列相同。

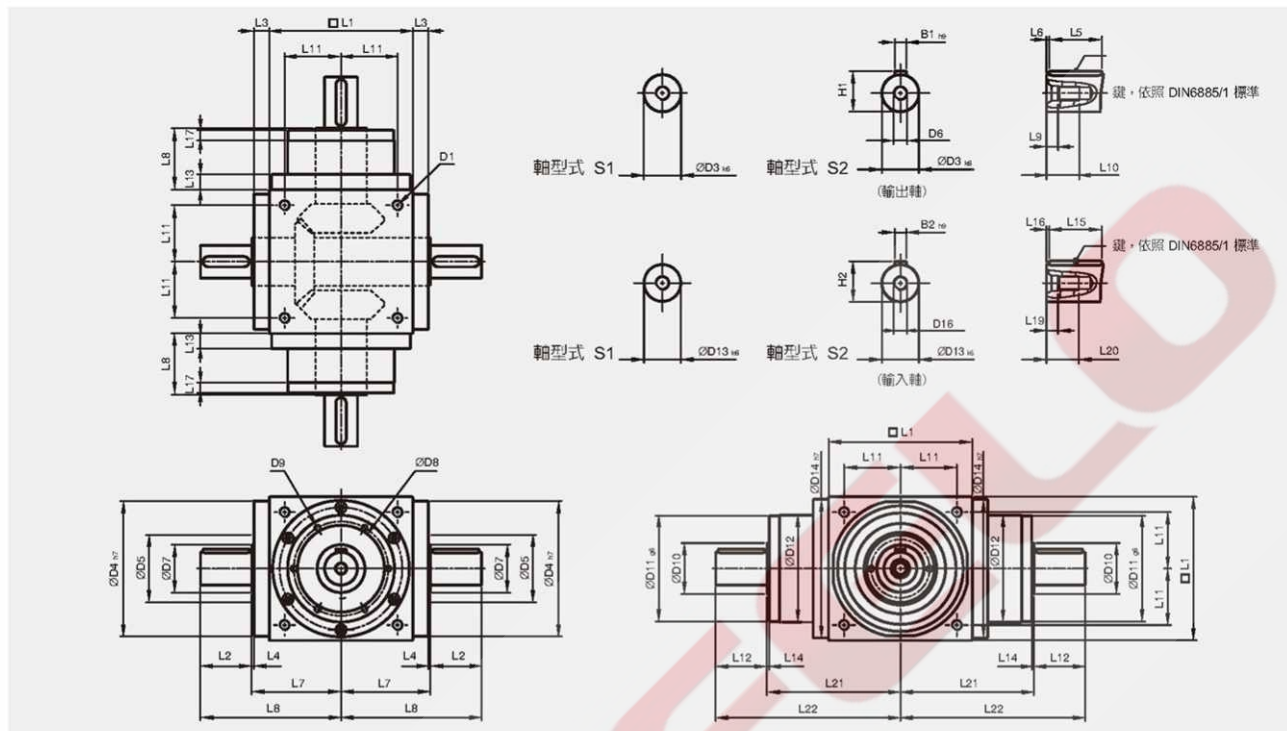
(单位: mm)

| 尺寸                | SFT065LM/RM | SFT075LM/RM | SFT090LM/RM | SFT110LM/RM | SFT140LM/RM | SFT170LM/RM | SFT210LM/RM | SFT240LM/RM | SFT280LM/RM |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| D1                | M4          | M6          | M6          | M8          | M10         | M12         | M16         | M16         | M16         |
| D3 <sub>k6</sub>  | 13          | 16          | 18          | 22          | 32          | 40          | 50          | 55          | 60          |
| D4 <sub>h7</sub>  | 63          | 73          | 88          | 108         | 135         | 165         | 205         | 235         | 275         |
| D5                | 31          | 35          | 43          | 53          | 68          | 83          | 104         | 124         | 144         |
| D6                | M4          | M5          | M5          | M8          | M12         | M16         | M16         | M16         | M20         |
| D7                | 21          | 22          | 28          | 33          | 47          | 55          | 75          | 85          | 110         |
| D8                | 53          | 62          | 76          | 95          | 92          | 114         | 142         | 160         | 176         |
| D9                | 4xM4xL7     | 4xM5xL8     | 4xM5xL8     | 6xM6xL10    | 6xM6xL10    | 6xM8xL12.5  | 6xM8xL12.5  | 6xM8xL12.5  | 6xM10xL15   |
| D10               | 15.4        | 20.4        | 25.8        | 35.8        | 49.8        | 59.3        | 79.3        | 92.3        | 102.3       |
| D11 <sub>g6</sub> | 62.9        | 72.9        | 87          | 107         | 103         | 127         | 158         | 178         | 198         |
| D12               | 62          | 72          | 86          | 106         | 104         | 128         | 160         | 180         | 200         |
| D13 <sub>k6</sub> | 13          | 16          | 18          | 22          | 32          | 40          | 50          | 55          | 60          |
| D14 <sub>h7</sub> | 63          | 73          | 88          | 108         | 135         | 165         | 205         | 235         | 275         |
| D16               | M4          | M5          | M5          | M8          | M12         | M16         | M16         | M16         | M20         |
| L1                | 65          | 75          | 90          | 110         | 140         | 170         | 210         | 240         | 280         |
| L2                | 19.5        | 30          | 35          | 40          | 50          | 60          | 75          | 85          | 110         |
| L3                | 13          | 14.5        | 15          | 15          | 15          | 15          | 20          | 25          | 25          |
| L4                | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           |
| L5                | 16          | 25          | 28          | 32          | 45          | 50          | 70          | 80          | 100         |
| L6                | 2           | 2.5         | 3.5         | 4           | 2.5         | 5           | 2.5         | 2.5         | 5           |
| L7                | 47.5        | 54          | 62          | 72          | 87          | 102         | 127         | 147         | 167         |
| L8                | 67          | 84          | 97          | 112         | 137         | 162         | 202         | 232         | 277         |
| L9                | 4.5         | 4.8         | 4.8         | 7.2         | 10          | 12          | 12          | 12          | 15          |
| L10               | 10          | 12.5        | 12.5        | 19          | 28          | 36          | 36          | 36          | 42          |
| L11               | 27          | 30          | 36          | 44          | 55          | 67          | 85          | 95          | 110         |
| L12               | 19.5        | 30          | 35          | 40          | 50          | 60          | 75          | 85          | 110         |
| L13               | 13          | 15          | 15          | 15          | 15          | 15          | 20          | 25          | 25          |
| L14               | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           |
| L15               | 16          | 25          | 28          | 32          | 45          | 50          | 70          | 80          | 100         |
| L16               | 2           | 2.5         | 3.5         | 4           | 2.5         | 5           | 2.5         | 2.5         | 5           |
| L17               | 6           | 8           | 8           | 8           | 10          | 10          | 10          | 10          | 10          |
| L18               | 43          | 52.5        | 55          | 60          | 60          | 70          | 90          | 105         | 120         |
| L19               | 4.5         | 4.8         | 4.8         | 7.2         | 10          | 12          | 12          | 12          | 15          |
| L20               | 10          | 12.5        | 12.5        | 19          | 28          | 36          | 36          | 36          | 42          |
| L21               | 75.5        | 90          | 100         | 115         | 130         | 155         | 195         | 225         | 260         |
| L22               | 95          | 120         | 135         | 155         | 180         | 215         | 270         | 310         | 370         |
| B1 <sub>h9</sub>  | 5           | 5           | 6           | 6           | 10          | 12          | 14          | 16          | 18          |
| B2 <sub>h9</sub>  | 5           | 5           | 6           | 6           | 10          | 12          | 14          | 16          | 18          |
| H1                | 15          | 18          | 20.5        | 24.5        | 35          | 43          | 53.5        | 59          | 64          |
| H2                | 15          | 18          | 20.5        | 24.5        | 35          | 43          | 53.5        | 59          | 64          |



SFT-4M / SFTB--4M 系列

尺寸 (单节, 减速比*i*=1)



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

| 尺寸     | SFT065 4M | SFT075 4M | SFT090 4M | SFT110 4M | SFT140 4M | SFT170 4M  | SFT210 4M  | SFT240 4M  | SFT280 4M |
|--------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|
| D1     | M4        | M6        | M6        | M8        | M10       | M12        | M16        | M16        | M16       |
| D3 k6  | 13        | 16        | 18        | 22        | 32        | 40         | 50         | 55         | 60        |
| D4 h7  | 63        | 73        | 88        | 108       | 135       | 165        | 205        | 235        | 275       |
| D5     | 31        | 35        | 43        | 53        | 68        | 83         | 104        | 124        | 144       |
| D6     | M4        | M5        | M5        | M8        | M12       | M16        | M16        | M16        | M20       |
| D7     | 21        | 22        | 28        | 33        | 47        | 55         | 75         | 85         | 110       |
| D8     | 53        | 62        | 76        | 95        | 92        | 114        | 142        | 160        | 176       |
| D9     | 4xM4xL7   | 4xM5xL8   | 4xM5xL8   | 6xM6xL10  | 6xM6xL10  | 6xM8xL12.5 | 6xM8xL12.5 | 6xM8xL12.5 | 6xM10xL15 |
| D10    | 15.4      | 20.4      | 25.8      | 35.8      | 49.8      | 59.3       | 79.3       | 92.3       | 102.3     |
| D11 g6 | 62.9      | 72.9      | 87        | 107       | 103       | 127        | 158        | 178        | 198       |
| D12    | 62        | 72        | 86        | 106       | 104       | 128        | 160        | 180        | 200       |
| D13 k6 | 13        | 16        | 18        | 22        | 32        | 40         | 50         | 55         | 60        |
| D14 h7 | 63        | 73        | 88        | 108       | 135       | 165        | 205        | 235        | 275       |
| D16    | M4        | M5        | M5        | M8        | M12       | M16        | M16        | M16        | M20       |
| L1     | 65        | 75        | 90        | 110       | 140       | 170        | 210        | 240        | 280       |
| L2     | 19.5      | 30        | 35        | 40        | 50        | 60         | 75         | 85         | 110       |
| L3     | 13        | 14.5      | 15        | 15        | 15        | 15         | 20         | 25         | 25        |
| L4     | 2         | 2         | 2         | 2         | 2         | 2          | 2          | 2          | 2         |
| L5     | 16        | 25        | 28        | 32        | 45        | 50         | 70         | 80         | 100       |
| L6     | 2         | 2.5       | 3.5       | 4         | 2.5       | 5          | 2.5        | 2.5        | 5         |
| L7     | 47.5      | 54        | 62        | 72        | 87        | 102        | 127        | 147        | 167       |
| L8     | 67        | 84        | 97        | 112       | 137       | 162        | 202        | 232        | 277       |
| L9     | 4.5       | 4.8       | 4.8       | 7.2       | 10        | 12         | 12         | 12         | 15        |
| L10    | 10        | 12.5      | 12.5      | 19        | 28        | 36         | 36         | 36         | 42        |
| L11    | 27        | 30        | 36        | 44        | 55        | 67         | 85         | 95         | 110       |
| L12    | 19.5      | 30        | 35        | 40        | 50        | 60         | 75         | 85         | 110       |
| L13    | 13        | 15        | 15        | 15        | 15        | 15         | 20         | 25         | 25        |
| L14    | 2         | 2         | 2         | 2         | 2         | 2          | 2          | 2          | 2         |
| L15    | 16        | 25        | 28        | 32        | 45        | 50         | 70         | 80         | 100       |
| L16    | 2         | 2.5       | 3.5       | 4         | 2.5       | 5          | 2.5        | 2.5        | 5         |
| L17    | 6         | 8         | 8         | 8         | 10        | 10         | 10         | 10         | 10        |
| L18    | 43        | 52.5      | 55        | 60        | 60        | 70         | 90         | 105        | 120       |
| L19    | 4.5       | 4.8       | 4.8       | 7.2       | 10        | 12         | 12         | 12         | 15        |
| L20    | 10        | 12.5      | 12.5      | 19        | 28        | 36         | 36         | 36         | 42        |
| L21    | 75.5      | 90        | 100       | 115       | 130       | 155        | 195        | 225        | 260       |
| L22    | 95        | 120       | 135       | 155       | 180       | 215        | 270        | 310        | 370       |
| B1 h9  | 5         | 5         | 6         | 6         | 10        | 12         | 14         | 16         | 18        |
| B2 h9  | 5         | 5         | 6         | 6         | 10        | 12         | 14         | 16         | 18        |
| H1     | 15        | 18        | 20.5      | 24.5      | 35        | 43         | 53.5       | 59         | 64        |
| H2     | 15        | 18        | 20.5      | 24.5      | 35        | 43         | 53.5       | 59         | 64        |

## SFT 法兰型系列

## 产品规格

| 規 格                               |        | 節 數   | 比 數    | SFT065 FL<br>SFT065 FL1<br>SFT065 FH<br>SFT065 FC<br>SFT065 FR1 | SFT075 FL<br>SFT075 FL1<br>SFT075 FH<br>SFT075 FC<br>SFT075 FR1 | SFT090 FL<br>SFT090 FL1<br>SFT090 FH<br>SFT090 FC<br>SFT090 FR1 | SFT110 FL<br>SFT110 FL1<br>SFT110 FH<br>SFT110 FC<br>SFT110 FR1 | SFT140 FL<br>SFT140 FL1<br>SFT140 FH<br>SFT140 FC<br>SFT140 FR1 | SFT170 L<br>SFT170 L1<br>SFT170 H<br>SFT170 C<br>SFT170 R1 | SFT210 FL<br>SFT210 FL1<br>SFT210 FH<br>SFT210 FC<br>SFT210 FR1 | SFT240 FL<br>SFT240 FL1<br>SFT240 FH<br>SFT240 FC<br>SFT240 FR1 | SFT280 FL<br>SFT280 FL1<br>SFT280 FH<br>SFT280 FC<br>SFT280 FR1 |
|-----------------------------------|--------|-------|--------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| 額定輸出力矩 $T_{2N}$                   | Nm     | 1     | 1      | 25                                                              | 45                                                              | 78                                                              | 150                                                             | 360                                                             | 585                                                        | 1,300                                                           | 2,150                                                           | 3,200                                                           |
|                                   |        |       | 1.5    | 25                                                              | 45                                                              | 78                                                              | 150                                                             | 360                                                             | 585                                                        | 1,300                                                           | 2,150                                                           | 3,200                                                           |
|                                   |        |       | 2      | 24                                                              | 42                                                              | 68                                                              | 150                                                             | 330                                                             | 544                                                        | 1,220                                                           | 2,010                                                           | 3,050                                                           |
|                                   |        |       | 3      | 18                                                              | 33                                                              | 54                                                              | 120                                                             | 270                                                             | 450                                                        | 1,020                                                           | 1,650                                                           | 2,850                                                           |
|                                   |        |       | 4      | 13                                                              | 28                                                              | 48                                                              | 100                                                             | 224                                                             | 376                                                        | 860                                                             | 1,410                                                           | 2,300                                                           |
|                                   |        |       | 5      | 12                                                              | 25                                                              | 40                                                              | 85                                                              | 196                                                             | 320                                                        | 740                                                             | 1,210                                                           | 2,000                                                           |
|                                   |        | 2     | 7      | 12                                                              | 12                                                              | 33                                                              | 91                                                              | 91                                                              | 91                                                         | 195                                                             | 358                                                             | 358                                                             |
|                                   |        |       | 10     | 24                                                              | 28                                                              | 68                                                              | 150                                                             | 208                                                             | 208                                                        | 430                                                             | 846                                                             | 846                                                             |
|                                   |        |       | 15     | 18                                                              | 33                                                              | 54                                                              | 120                                                             | 270                                                             | 312                                                        | 645                                                             | 1,269                                                           | 1,269                                                           |
|                                   |        |       | 20     | 13                                                              | 28                                                              | 48                                                              | 100                                                             | 224                                                             | 376                                                        | 860                                                             | 1,410                                                           | 1,692                                                           |
|                                   |        |       | 25     | 12                                                              | 25                                                              | 40                                                              | 85                                                              | 196                                                             | 320                                                        | 740                                                             | 1,210                                                           | 2,000                                                           |
|                                   |        |       | 35     | 12                                                              | 25                                                              | 40                                                              | 85                                                              | 196                                                             | 320                                                        | 740                                                             | 1,210                                                           | 1,790                                                           |
|                                   |        | 3     | 50     | 12                                                              | 25                                                              | 40                                                              | 85                                                              | 196                                                             | 320                                                        | 740                                                             | 1,210                                                           | 1,465                                                           |
|                                   |        |       | 75     | -                                                               | -                                                               | -                                                               | 120                                                             | 210                                                             | 312                                                        | 585                                                             | 1,269                                                           | 1,269                                                           |
|                                   |        |       | 100    | -                                                               | -                                                               | -                                                               | 100                                                             | 224                                                             | 376                                                        | 780                                                             | 1,410                                                           | 1,692                                                           |
|                                   |        |       | 125    | -                                                               | -                                                               | -                                                               | 85                                                              | 196                                                             | 320                                                        | 740                                                             | 1,210                                                           | 2,000                                                           |
|                                   |        |       | 150    | -                                                               | -                                                               | -                                                               | 120                                                             | 135                                                             | 312                                                        | 390                                                             | 975                                                             | 975                                                             |
|                                   |        |       | 200    | -                                                               | -                                                               | -                                                               | 100                                                             | 180                                                             | 376                                                        | 520                                                             | 1,300                                                           | 1,300                                                           |
|                                   |        |       | 250    | -                                                               | -                                                               | -                                                               | 85                                                              | 196                                                             | 320                                                        | 650                                                             | 1,210                                                           | 1,625                                                           |
|                                   |        |       | 350    | -                                                               | -                                                               | -                                                               | 85                                                              | 196                                                             | 320                                                        | 740                                                             | 1,210                                                           | 1,790                                                           |
|                                   |        |       | 500    | -                                                               | -                                                               | -                                                               | 85                                                              | 196                                                             | 320                                                        | 740                                                             | 1,210                                                           | 1,465                                                           |
| 最大加速力矩 $T_{2B}$                   | Nm     |       | 1,2,3  | 1~500                                                           | 1.5 倍額定輸出力矩                                                     |                                                                 |                                                                 |                                                                 |                                                            |                                                                 |                                                                 |                                                                 |
| 最大加速輸入轉速 $n_{1B}$                 | rpm    | 1     | 1~5    | 7,500                                                           | 6,500                                                           | 5,500                                                           | 4,500                                                           | 3,500                                                           | 3,000                                                      | 2,200                                                           | 2,000                                                           | 1,700                                                           |
|                                   |        | 2     | 7~50   | 8,000                                                           | 8,000                                                           | 6,000                                                           | 6,000                                                           | 6,000                                                           | 6,000                                                      | 4,800                                                           | 3,600                                                           | 3,600                                                           |
|                                   |        | 3     | 75~500 | -                                                               | -                                                               | -                                                               | 8,000                                                           | 8,000                                                           | 6,000                                                      | 6,000                                                           | 6,000                                                           | 6,000                                                           |
| 背隙 <sup>h)</sup>                  | arcmin | 1     | 1~5    | ≤6                                                              | ≤6                                                              | ≤6                                                              | ≤6                                                              | ≤6                                                              | ≤6                                                         | ≤6                                                              | ≤6                                                              | ≤6                                                              |
|                                   |        | 2     | 7~50   | ≤8                                                              | ≤8                                                              | ≤8                                                              | ≤8                                                              | ≤8                                                              | ≤8                                                         | ≤8                                                              | ≤8                                                              | ≤8                                                              |
|                                   |        | 3     | 75~500 | -                                                               | -                                                               | -                                                               | ≤10                                                             | ≤10                                                             | ≤10                                                        | ≤10                                                             | ≤10                                                             | ≤10                                                             |
| 容許徑向力 $F_{2aB}^C$<br>輸出軸 d2       | N      | 1,2,3 | 1~500  | 900                                                             | 1,100                                                           | 1,700                                                           | 2,700                                                           | 4,800                                                           | 6,600                                                      | 11,500                                                          | 16,000                                                          | 18,000                                                          |
| 容許軸向力 $F_{2aB}^C$<br>輸出軸 d2       | N      | 1,2,3 | 1~500  | 450                                                             | 550                                                             | 850                                                             | 1,350                                                           | 2,400                                                           | 3,300                                                      | 5,750                                                           | 8,500                                                           | 9,000                                                           |
| 使用壽命 <sup>o)</sup>                | hr     | 1,2,3 | 1~500  | 20,000*                                                         |                                                                 |                                                                 |                                                                 |                                                                 |                                                            |                                                                 |                                                                 |                                                                 |
| 效率 $\eta$                         | %      | 1     | 1~5    | ≥98%                                                            |                                                                 |                                                                 |                                                                 |                                                                 |                                                            |                                                                 |                                                                 |                                                                 |
|                                   |        | 2,3   | 7~500  | ≥94%                                                            |                                                                 |                                                                 |                                                                 |                                                                 |                                                            |                                                                 |                                                                 |                                                                 |
| 使用溫度                              | °C     | 1,2,3 | 1~500  | -10°C ~ 90°C                                                    |                                                                 |                                                                 |                                                                 |                                                                 |                                                            |                                                                 |                                                                 |                                                                 |
| 潤滑                                |        |       |        | 合成潤滑油脂                                                          |                                                                 |                                                                 |                                                                 |                                                                 |                                                            |                                                                 |                                                                 |                                                                 |
| 噪音值 ( $n_1=1500\text{rpm}$ , 無負載) | dB (A) | 1,2,3 | 1~500  | ≤71                                                             | ≤72                                                             | ≤76                                                             | ≤77                                                             | ≤78                                                             | ≤79                                                        | ≤81                                                             | ≤83                                                             | ≤84                                                             |



## SFT 法兰型系列

## 产品规格

減速機轉動慣量 SFTB系列的性能规范与SFT系列相同。

| 規 格        | 節 數 | 比 數 | SFT065 FL<br>SFT065 FL1<br>SFT065 FH<br>SFT065 FC<br>SFT065 FR1 | SFT075 FL<br>SFT075 FL1<br>SFT075 FH<br>SFT075 FC<br>SFT075 FR1 | SFT090 FL<br>SFT090 FL1<br>SFT090 FH<br>SFT090 FC<br>SFT090 FR1 | SFT110 FL<br>SFT110 FL1<br>SFT110 FH<br>SFT110 FC<br>SFT110 FR1 | SFT140 FL<br>SFT140 FL1<br>SFT140 FH<br>SFT140 FC<br>SFT140 FR1 | SFT170 L<br>SFT170 L1<br>SFT170 H<br>SFT170 C<br>SFT170 R1 | SFT210 FL<br>SFT210 FL1<br>SFT210 FH<br>SFT210 FC<br>SFT210 FR1 | SFT240 FL<br>SFT240 FL1<br>SFT240 FH<br>SFT240 FC<br>SFT240 FR1 | SFT280 FL<br>SFT280 FL1<br>SFT280 FH<br>SFT280 FC<br>SFT280 FR1 |
|------------|-----|-----|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| 轉動慣量 $J_1$ | 1   | 1   | 0.51                                                            | 1.30                                                            | 3.14                                                            | 7.62                                                            | 23.54                                                           | 59.09                                                      | 195.96                                                          | 365.38                                                          | 787.63                                                          |
|            |     | 1.5 | 0.46                                                            | 1.15                                                            | 2.80                                                            | 6.65                                                            | 19.34                                                           | 49.38                                                      | 156.02                                                          | 279.62                                                          | 584.28                                                          |
|            |     | 2   | 0.44                                                            | 1.10                                                            | 2.68                                                            | 6.23                                                            | 17.72                                                           | 45.44                                                      | 140.80                                                          | 245.78                                                          | 500.26                                                          |
|            |     | 3   | 0.43                                                            | 1.09                                                            | 2.64                                                            | 6.08                                                            | 17.16                                                           | 44.11                                                      | 135.51                                                          | 233.75                                                          | 471.56                                                          |
|            |     | 4   | 0.43                                                            | 1.08                                                            | 2.63                                                            | 6.05                                                            | 17.03                                                           | 43.79                                                      | 134.14                                                          | 230.77                                                          | 464.76                                                          |
|            |     | 5   | 0.43                                                            | 1.08                                                            | 2.63                                                            | 6.04                                                            | 16.99                                                           | 43.69                                                      | 133.71                                                          | 229.71                                                          | 462.08                                                          |
|            |     | 7   | 0.15                                                            | 0.15                                                            | 0.50                                                            | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.91                                                            | 29.26                                                           | 29.26                                                           |
|            |     | 10  | 0.15                                                            | 0.15                                                            | 0.50                                                            | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 15  | 0.15                                                            | 0.15                                                            | 0.50                                                            | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 20  | 0.15                                                            | 0.15                                                            | 0.50                                                            | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 25  | 0.15                                                            | 0.15                                                            | 0.50                                                            | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 35  | 0.15                                                            | 0.15                                                            | 0.50                                                            | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.91                                                            | 29.26                                                           | 29.26                                                           |
|            |     | 50  | 0.15                                                            | 0.15                                                            | 0.50                                                            | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            | 2   | 75  | -                                                               | -                                                               | -                                                               | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 100 | -                                                               | -                                                               | -                                                               | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 125 | -                                                               | -                                                               | -                                                               | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 150 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 200 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 250 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 350 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 500 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            | 3   | 75  | -                                                               | -                                                               | -                                                               | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 100 | -                                                               | -                                                               | -                                                               | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 125 | -                                                               | -                                                               | -                                                               | 2.80                                                            | 2.80                                                            | 2.80                                                       | 9.96                                                            | 29.43                                                           | 29.43                                                           |
|            |     | 150 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 200 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 250 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 350 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |
|            |     | 500 | -                                                               | -                                                               | -                                                               | 2.79                                                            | 2.79                                                            | 2.79                                                       | 9.89                                                            | 29.20                                                           | 29.20                                                           |

## 重量

| 減 速 機 型 號 | 節 數 | 比 數    | SFT065 | SFT075 | SFT090 | SFT110 | SFT140 | SFT170 | SFT210 | SFT240 | SFT280 |
|-----------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FL 系列     | 1   | 1~5    | 2.8    | 4.4    | 7.1    | 12.1   | 20.9   | 36.1   | 69.4   | 101.2  | 158.3  |
|           | 2   | 7~50   | 3.2    | 4.8    | 8.1    | 14.3   | 24.2   | 38.5   | 74.1   | 112.4  | 171.0  |
|           | 3   | 75~500 | -      | -      | -      | 13.9   | 23.7   | 38.8   | 73.4   | 110.2  | 168.7  |
| FL1 系列    | 1   | 1~5    | 2.7    | 4.3    | 7.1    | 11.9   | 20.3   | 35.5   | 68.3   | 99.6   | 156.0  |
|           | 2   | 7~50   | 3.2    | 4.8    | 8.0    | 14.2   | 23.9   | 37.9   | 73.0   | 110.8  | 168.6  |
|           | 3   | 75~500 | -      | -      | -      | 13.8   | 23.4   | 38.2   | 72.3   | 108.6  | 166.4  |
| FH 系列     | 1   | 1~5    | 2.6    | 4.1    | 6.7    | 11.4   | 18.9   | 32.9   | 63.2   | 92.5   | 146.0  |
|           | 2   | 7~50   | 3.1    | 4.6    | 7.7    | 13.6   | 22.4   | 35.3   | 67.9   | 103.7  | 158.7  |
|           | 3   | 75~500 | -      | -      | -      | 13.3   | 21.9   | 35.6   | 67.2   | 101.5  | 156.5  |
| FC 系列     | 1   | 1~5    | 2.9    | 4.4    | 7.2    | 11.8   | 20.4   | 35.0   | 66.5   | 96.0   | 151.7  |
|           | 2   | 7~50   | 3.3    | 4.9    | 8.2    | 14.1   | 24.1   | 37.4   | 71.2   | 107.2  | 164.4  |
|           | 3   | 75~500 | -      | -      | -      | 13.7   | 23.5   | 37.5   | 70.5   | 105.0  | 162.2  |
| FR1 系列    | 1   | 1~5    | 2.7    | 4.3    | 7.1    | 11.9   | 20.3   | 35.5   | 68.3   | 99.6   | 156.0  |
|           | 2   | 7~50   | 3.2    | 4.8    | 8.0    | 14.2   | 23.9   | 37.9   | 73.0   | 110.8  | 168.6  |
|           | 3   | 75~500 | -      | -      | -      | 13.8   | 23.4   | 38.2   | 72.3   | 108.6  | 166.4  |

A. 比數 ( $i = N_n / N_{out}$ )

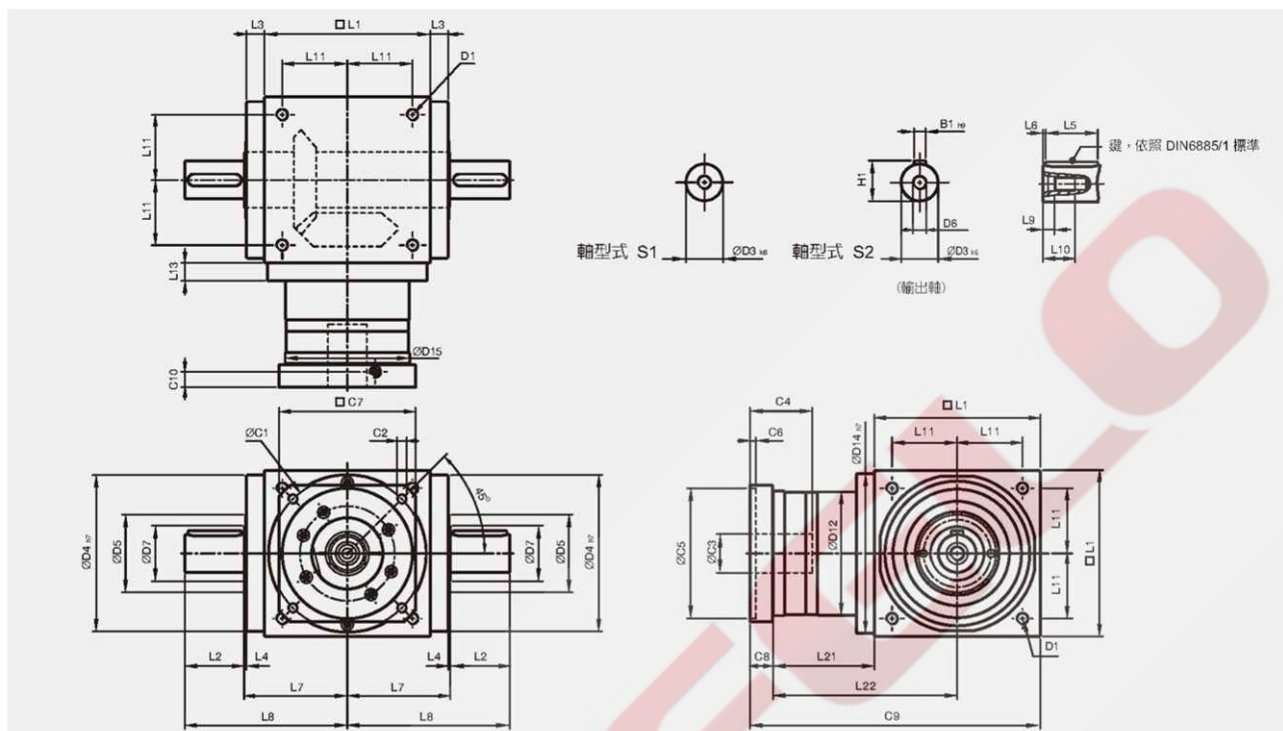
B. 背隙值是在 2% 額定力矩  $T_{2N}$  的扭力下測得。

C. 最大加速輸入轉速  $n_{ig}$  作用於輸入軸中心位置。

D. 連續運轉使用壽命為 10,000 小時。

SFT-FL/SFTB-FL 系列

尺寸 (单节, 减速比*i*=1-5)



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

| 尺寸                | SFT065 FL              | SFT075 FL                        | SFT090 FL | SFT110 FL | SFT140 FL | SFT170 FL | SFT210 FL | SFT240 FL | SFT280 FL |
|-------------------|------------------------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| D1                | M4                     | M6                               | M6        | M8        | M10       | M12       | M16       | M16       | M16       |
| D3 <sub>k6</sub>  | 13                     | 16                               | 18        | 22        | 32        | 40        | 50        | 55        | 60        |
| D4 <sub>h7</sub>  | 63                     | 73                               | 88        | 108       | 135       | 165       | 205       | 235       | 275       |
| D5                | 31                     | 35                               | 43        | 53        | 68        | 83        | 104       | 124       | 144       |
| D6                | M4                     | M5                               | M5        | M8        | M12       | M16       | M16       | M16       | M20       |
| D7                | 21                     | 22                               | 28        | 33        | 47        | 55        | 75        | 85        | 110       |
| D12               | 62                     | 72                               | 86        | 106       | 104       | 128       | 160       | 180       | 200       |
| D14 <sub>h7</sub> | 63                     | 73                               | 88        | 108       | 135       | 165       | 205       | 235       | 275       |
| D15               | 62.9                   | 72.9                             | 87        | 107       | 105       | 127       | 158       | 178       | 198       |
| L1                | 65                     | 75                               | 90        | 110       | 140       | 170       | 210       | 240       | 280       |
| L2                | 19.5                   | 30                               | 35        | 40        | 50        | 60        | 75        | 85        | 110       |
| L3                | 13                     | 14.5                             | 15        | 15        | 15        | 15        | 20        | 25        | 25        |
| L4                | 2                      | 2                                | 2         | 2         | 2         | 2         | 2         | 2         | 2         |
| L5                | 16                     | 25                               | 28        | 32        | 45        | 50        | 70        | 80        | 100       |
| L6                | 2                      | 2.5                              | 3.5       | 4         | 2.5       | 5         | 2.5       | 2.5       | 5         |
| L7                | 47.5                   | 54                               | 62        | 72        | 87        | 102       | 127       | 147       | 167       |
| L8                | 67                     | 84                               | 97        | 112       | 137       | 162       | 202       | 232       | 277       |
| L9                | 4.5                    | 4.8                              | 4.8       | 7.2       | 10        | 12        | 12        | 12        | 15        |
| L10               | 10                     | 12.5                             | 12.5      | 19        | 28        | 36        | 36        | 36        | 42        |
| L11               | 27                     | 30                               | 36        | 44        | 55        | 67        | 85        | 95        | 110       |
| L13               | 13                     | 15                               | 15        | 15        | 15        | 15        | 20        | 25        | 25        |
| L21               | 49                     | 60.5                             | 63        | 69.5      | 85.5      | 95        | 130       | 144.5     | 135       |
| L22               | 81.5                   | 98                               | 108       | 124.5     | 155.5     | 180       | 235       | 264.5     | 275       |
| C1 <sup>1</sup>   | 46                     | 70                               | 100       | 100       | 130       | 165       | 215       | 215       | 235       |
| C2 <sup>1</sup>   | M4                     | M5                               | M6        | M6        | M8        | M10       | M12       | M12       | M12       |
| C3 <sup>1</sup>   | ≤11 / ≤12 <sup>2</sup> | ≤14 / ≤15.875 / ≤16 <sup>2</sup> | ≤19       | ≤24       | ≤32       | ≤38       | ≤42       | ≤48       | ≤55       |
| C4 <sup>1</sup>   | 30                     | 34                               | 40        | 40        | 50        | 60        | 85        | 85        | 116       |
| C5 <sup>1</sup>   | 30                     | 50                               | 80        | 80        | 110       | 130       | 180       | 180       | 200       |
| C6 <sup>1</sup>   | 3.5                    | 8                                | 4         | 4         | 5         | 6         | 6         | 6         | 6         |
| C7 <sup>1</sup>   | 42                     | 60                               | 90        | 90        | 115       | 142       | 190       | 190       | 220       |
| C8 <sup>1</sup>   | 19.5                   | 19                               | 17        | 17        | 19.5      | 22.5      | 29        | 29        | 63        |
| C9 <sup>1</sup>   | 133.5                  | 154.5                            | 170       | 196.5     | 245       | 287.5     | 369       | 413.5     | 478       |
| C10 <sup>1</sup>  | 13.25                  | 13.5                             | 10.75     | 10.75     | 13        | 15        | 20.75     | 20.75     | 53.5      |
| B1 <sub>h9</sub>  | 5                      | 5                                | 6         | 6         | 10        | 12        | 14        | 16        | 18        |
| H1                | 15                     | 18                               | 20.5      | 24.5      | 35        | 43        | 53.5      | 59        | 64        |

1. C1-C10为公制马达规范尺寸。

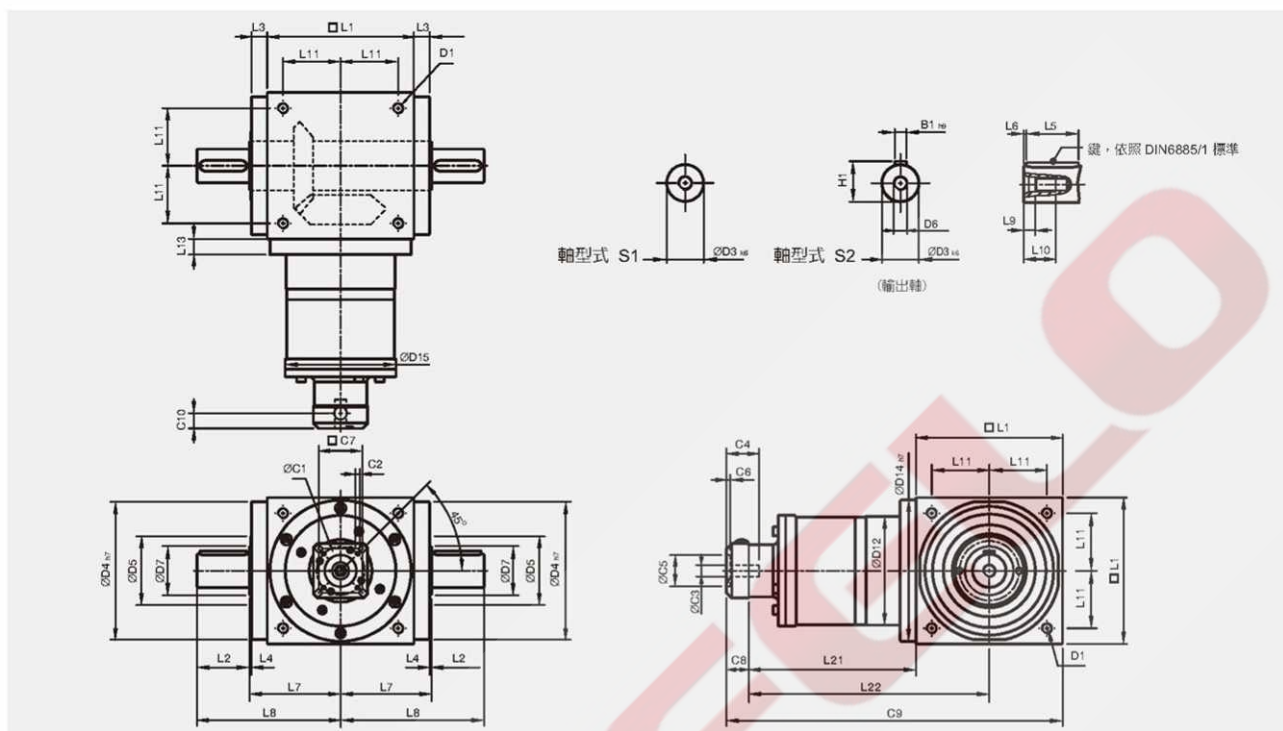
2. SFT065 FLM1提供C3≤12选择; SFT075 FLM1提供C3≤16选择; SFT075 FLM2提供C3≤15.875选择。





SFT-FL/SFTB-FL 系列

尺寸 (三节, 减速比*i*=75-500)



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

| 尺寸               | SFT110 FL | SFT140 FL | SFT170 FL | SFT210 FL | SFT240 FL | SFT280 FL |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| D1               | M8        | M10       | M12       | M16       | M16       | M16       |
| D3 k6            | 22        | 32        | 40        | 50        | 55        | 60        |
| D4 h7            | 108       | 135       | 165       | 205       | 235       | 275       |
| D5               | 53        | 68        | 83        | 104       | 124       | 144       |
| D6               | M8        | M12       | M16       | M16       | M16       | M20       |
| D7               | 33        | 47        | 55        | 75        | 85        | 110       |
| D12              | 106       | 104       | 128       | 160       | 180       | 200       |
| D14 h7           | 108       | 135       | 165       | 205       | 235       | 275       |
| D15              | 107       | 106       | 127       | 158       | 178       | 198       |
| L1               | 110       | 140       | 170       | 210       | 240       | 280       |
| L2               | 40        | 50        | 60        | 75        | 85        | 110       |
| L3               | 15        | 15        | 15        | 20        | 25        | 25        |
| L4               | 2         | 2         | 2         | 2         | 2         | 2         |
| L5               | 32        | 45        | 50        | 70        | 80        | 100       |
| L6               | 4         | 2.5       | 5         | 2.5       | 2.5       | 5         |
| L7               | 72        | 87        | 102       | 127       | 147       | 167       |
| L8               | 112       | 137       | 162       | 202       | 232       | 277       |
| L9               | 7.2       | 10        | 12        | 12        | 12        | 15        |
| L10              | 19        | 28        | 36        | 36        | 36        | 42        |
| L11              | 44        | 55        | 67        | 85        | 95        | 110       |
| L13              | 15        | 15        | 15        | 20        | 25        | 25        |
| L21              | 136.5     | 159.5     | 183.5     | 226       | 269       | 278       |
| L22              | 191.5     | 229.5     | 268.5     | 331       | 389       | 418       |
| C1 <sup>4</sup>  | 46        | 46        | 70        | 70        | 100       | 100       |
| C2 <sup>4</sup>  | M4        | M4        | M5        | M5        | M6        | M6        |
| C3 <sup>4</sup>  | ≤12       | ≤12       | ≤16       | ≤16       | ≤24       | ≤24       |
| C4 <sup>4</sup>  | 30        | 30        | 34        | 34        | 40        | 40        |
| C5 <sup>4</sup>  | 30        | 30        | 50        | 50        | 80        | 80        |
| C6 <sup>4</sup>  | 3.5       | 3.5       | 8         | 8         | 4         | 4         |
| C7 <sup>4</sup>  | 42        | 42        | 60        | 60        | 92        | 92        |
| C8 <sup>4</sup>  | 21.5      | 21.5      | 21.5      | 21.5      | 20        | 20        |
| C9 <sup>4</sup>  | 268       | 321       | 375       | 457.5     | 529       | 578       |
| C10 <sup>4</sup> | 14.5      | 14.5      | 15.5      | 15.5      | 13        | 13        |
| B1 h9            | 6         | 10        | 12        | 14        | 16        | 18        |
| H1               | 24.5      | 35        | 43        | 53.5      | 59        | 64        |

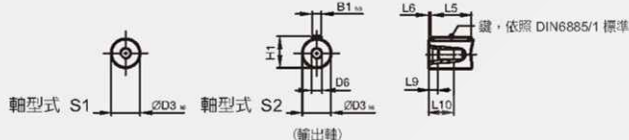
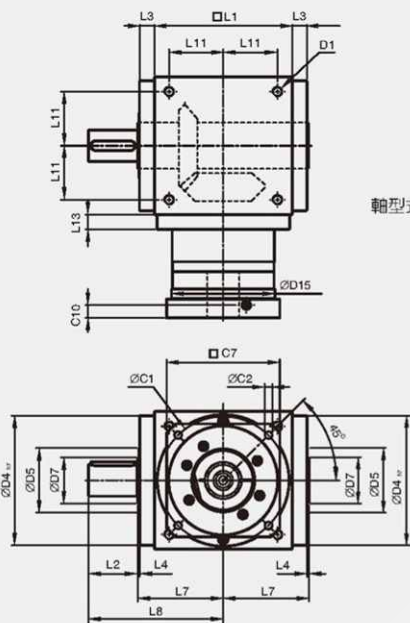
4. C1-C10为公制马达规范尺寸。



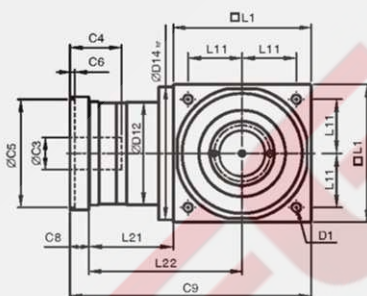
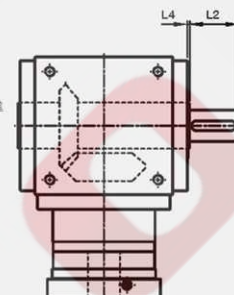
SFT-FL1/FR1 / SFTB-FL1/FR1 系列

尺寸 (单节, 减速比 $i=1-5$ )

SFT-TL1/ SFTB-TL1



SFT-FR1/ SFTB-FR1



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

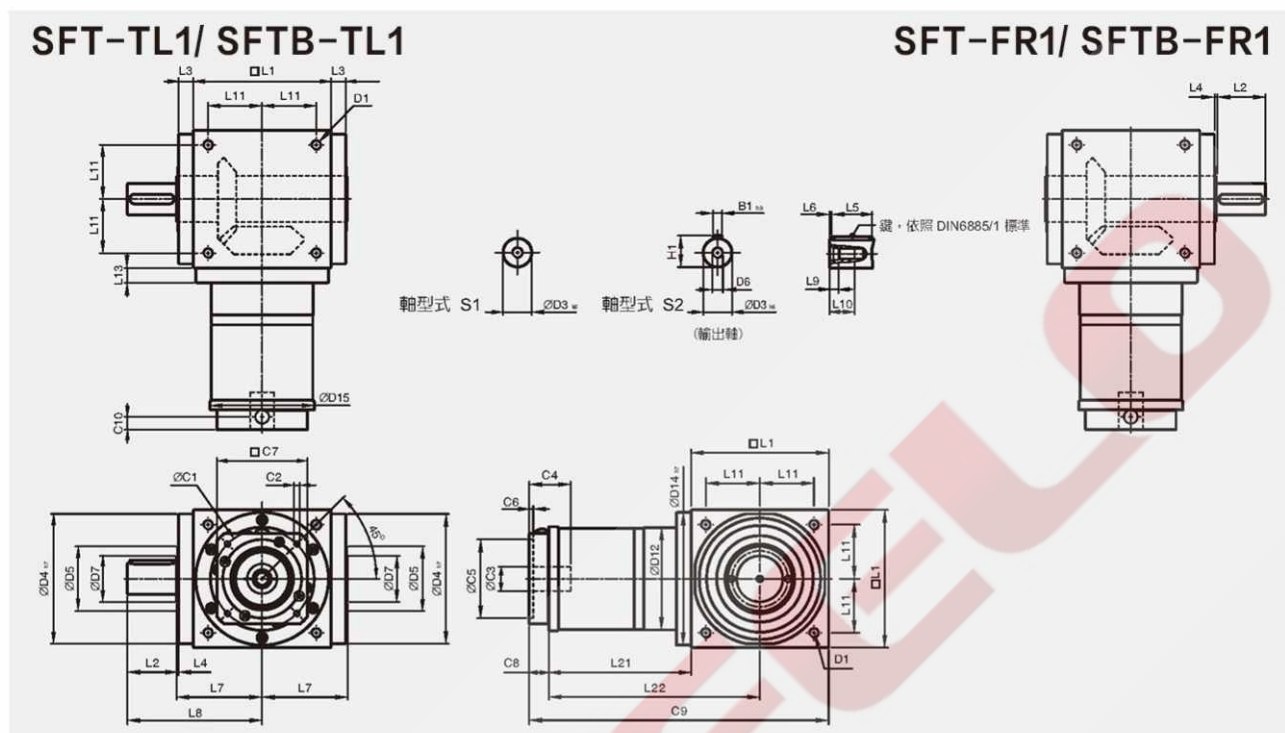
| 尺寸               | SFT065 FL1/FR1         | SFT075 FL1/FR1                   | SFT090 FL1/FR1 | SFT110 FL1/FR1 | SFT140 FL1/FR1 | SFT170 FL1/FR1 | SFT210 FL1/FR1 | SFT240 FL1/FR1 | SFT280 FL1/FR1 |
|------------------|------------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| D1               | M4                     | M6                               | M6             | M8             | M10            | M12            | M16            | M16            | M16            |
| D3 k6            | 13                     | 16                               | 18             | 22             | 32             | 40             | 50             | 55             | 60             |
| D4 h7            | 63                     | 73                               | 88             | 108            | 135            | 165            | 205            | 235            | 275            |
| D5               | 31                     | 35                               | 43             | 53             | 68             | 83             | 104            | 124            | 144            |
| D6               | M4                     | M5                               | M5             | M8             | M12            | M16            | M16            | M16            | M20            |
| D7               | 21                     | 22                               | 28             | 33             | 47             | 55             | 75             | 85             | 110            |
| D12              | 62                     | 72                               | 86             | 106            | 104            | 128            | 160            | 180            | 200            |
| D14 h7           | 63                     | 73                               | 88             | 108            | 135            | 165            | 205            | 235            | 275            |
| D15              | 62.9                   | 72.9                             | 87             | 107            | 105            | 127            | 158            | 178            | 198            |
| L1               | 65                     | 75                               | 90             | 110            | 140            | 170            | 210            | 240            | 280            |
| L2               | 19.5                   | 30                               | 35             | 40             | 50             | 60             | 75             | 85             | 110            |
| L3               | 13                     | 14.5                             | 15             | 15             | 15             | 15             | 20             | 25             | 25             |
| L4               | 2                      | 2                                | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| L5               | 16                     | 25                               | 28             | 32             | 45             | 50             | 70             | 80             | 100            |
| L6               | 2                      | 2.5                              | 3.5            | 4              | 2.5            | 5              | 2.5            | 2.5            | 5              |
| L7               | 47.5                   | 54                               | 62             | 72             | 87             | 102            | 127            | 147            | 167            |
| L8               | 67                     | 84                               | 97             | 112            | 137            | 162            | 202            | 232            | 277            |
| L9               | 4.5                    | 4.8                              | 4.8            | 7.2            | 10             | 12             | 12             | 12             | 15             |
| L10              | 10                     | 12.5                             | 12.5           | 19             | 28             | 36             | 36             | 36             | 42             |
| L11              | 27                     | 30                               | 36             | 44             | 55             | 67             | 85             | 95             | 110            |
| L13              | 13                     | 15                               | 15             | 15             | 15             | 15             | 20             | 25             | 25             |
| L21              | 49                     | 60.5                             | 63             | 69.5           | 85.5           | 95             | 130            | 144.5          | 135            |
| L22              | 81.5                   | 98                               | 108            | 124.5          | 155.5          | 180            | 235            | 264.5          | 275            |
| C1 <sup>5</sup>  | 46                     | 70                               | 100            | 100            | 130            | 165            | 215            | 215            | 235            |
| C2 <sup>5</sup>  | M4                     | M5                               | M6             | M6             | M8             | M10            | M12            | M12            | M12            |
| C3 <sup>5</sup>  | ≤11 / ≤12 <sup>5</sup> | ≤14 / ≤15.875 / ≤16 <sup>5</sup> | ≤19            | ≤24            | ≤32            | ≤38            | ≤42            | ≤48            | ≤55            |
| C4 <sup>5</sup>  | 30                     | 34                               | 40             | 40             | 50             | 60             | 85             | 85             | 116            |
| C5 <sup>5</sup>  | 30                     | 50                               | 80             | 80             | 110            | 130            | 180            | 180            | 200            |
| C6 <sup>5</sup>  | 3.5                    | 8                                | 4              | 4              | 5              | 6              | 6              | 6              | 6              |
| C7 <sup>5</sup>  | 42                     | 60                               | 90             | 90             | 115            | 142            | 190            | 190            | 220            |
| C8 <sup>5</sup>  | 19.5                   | 19                               | 17             | 17             | 19.5           | 22.5           | 29             | 29             | 63             |
| C9 <sup>5</sup>  | 133.5                  | 154.5                            | 170            | 196.5          | 245            | 287.5          | 369            | 413.5          | 478            |
| C10 <sup>5</sup> | 13.25                  | 13.5                             | 10.75          | 10.75          | 13             | 15             | 20.75          | 20.75          | 53.5           |
| B1 h9            | 5                      | 5                                | 6              | 6              | 10             | 12             | 14             | 16             | 18             |
| H1               | 15                     | 18                               | 20.5           | 24.5           | 35             | 43             | 53.5           | 59             | 64             |

5.C1-C10为公制马达规范尺寸。

6.SFT065 FL1/FR1M1 提供C3≤12选择; SFT075 FL1/FR1M1 提供C3≤16选择; SFT075 FL1/FR1M2 提供C3≤15.875选择。

SFT-FL1/FR1 / SFTB-FL1/FR1 系列

尺寸 (双节, 减速比 $i=7-50$ )



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

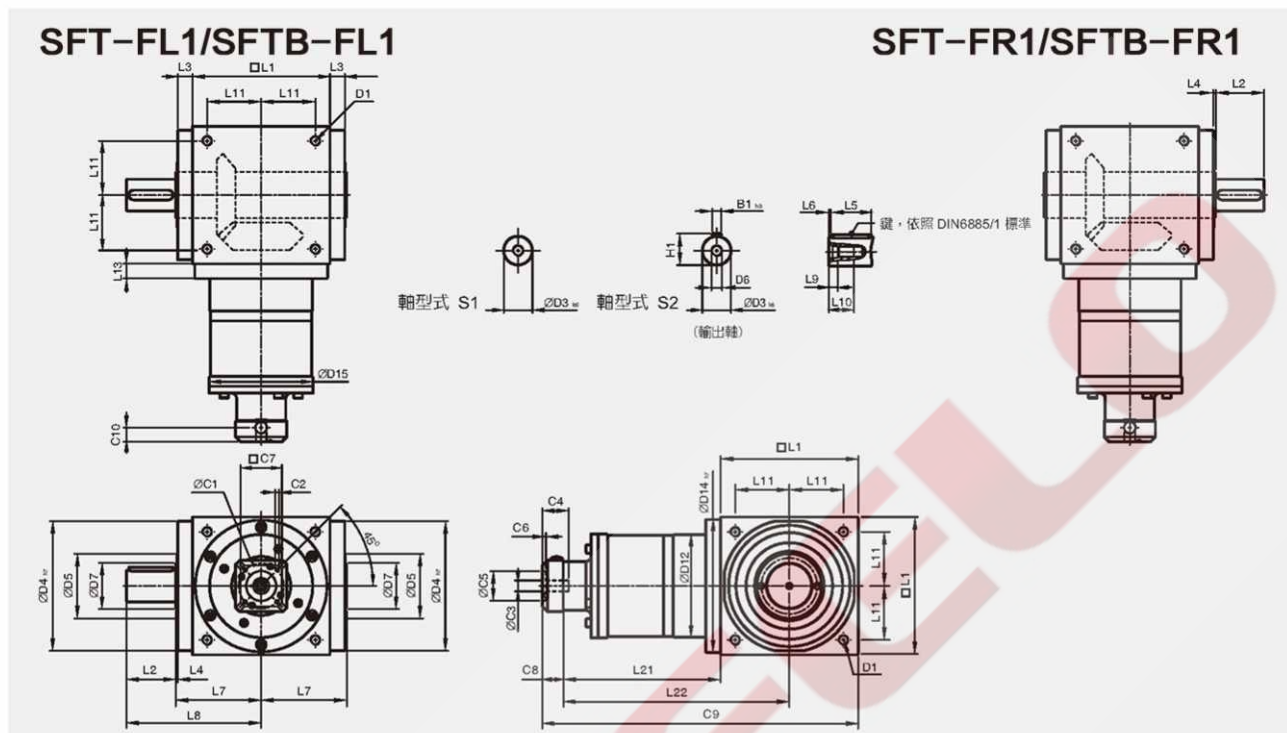
| 尺寸               | SFT065 FL1/FR1 | SFT075 FL1/FR1 | SFT090 FL1/FR1 | SFT110 FL1/FR1 | SFT140 FL1/FR1 | SFT170 FL1/FR1 | SFT210 FL1/FR1 | SFT065 FL1/FR1 | SFT280 FL1/FR1 |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| D1               | M4             | M6             | M6             | M8             | M10            | M12            | M16            | M16            | M16            |
| D3 k6            | 13             | 16             | 18             | 22             | 32             | 40             | 50             | 55             | 60             |
| D4 h7            | 63             | 73             | 88             | 108            | 135            | 165            | 205            | 235            | 275            |
| D5               | 31             | 35             | 43             | 53             | 68             | 83             | 104            | 124            | 144            |
| D6               | M4             | M5             | M5             | M8             | M12            | M16            | M16            | M16            | M20            |
| D7               | 21             | 22             | 28             | 33             | 47             | 55             | 75             | 85             | 110            |
| D12              | 62             | 72             | 86             | 106            | 104            | 128            | 160            | 180            | 200            |
| D14 h7           | 63             | 73             | 88             | 108            | 135            | 165            | 205            | 235            | 275            |
| D15              | 62.9           | 72.9           | 87             | 107            | 106            | 127            | 158            | 178            | 198            |
| L1               | 65             | 75             | 90             | 110            | 140            | 170            | 210            | 240            | 280            |
| L2               | 19.5           | 30             | 35             | 40             | 50             | 60             | 75             | 85             | 110            |
| L3               | 13             | 14.5           | 15             | 15             | 15             | 15             | 20             | 25             | 25             |
| L4               | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| L5               | 16             | 25             | 28             | 32             | 45             | 50             | 70             | 80             | 100            |
| L6               | 2              | 2.5            | 3.5            | 4              | 2.5            | 5              | 2.5            | 2.5            | 5              |
| L7               | 47.5           | 54             | 62             | 72             | 87             | 102            | 127            | 147            | 167            |
| L8               | 67             | 84             | 97             | 112            | 137            | 162            | 202            | 232            | 277            |
| L9               | 4.5            | 4.8            | 4.8            | 7.2            | 10             | 12             | 12             | 12             | 15             |
| L10              | 10             | 12.5           | 12.5           | 19             | 28             | 36             | 36             | 36             | 42             |
| L11              | 27             | 30             | 36             | 44             | 55             | 67             | 85             | 95             | 110            |
| L13              | 13             | 15             | 15             | 15             | 15             | 15             | 20             | 25             | 25             |
| L21              | 75             | 84.5           | 99             | 122            | 144.5          | 157.5          | 206.5          | 239            | 248            |
| L22              | 107.5          | 122            | 144            | 177            | 214.5          | 242.5          | 311.5          | 359            | 388            |
| C1 <sup>7</sup>  | 46             | 46             | 70             | 100            | 100            | 100            | 130            | 165            | 165            |
| C2 <sup>7</sup>  | M4             | M4             | M5             | M6             | M6             | M6             | M8             | M10            | M10            |
| C3 <sup>7</sup>  | ≤12            | ≤12            | ≤16            | ≤24            | ≤24            | ≤24            | ≤32            | ≤38            | ≤38            |
| C4 <sup>7</sup>  | 30             | 30             | 34             | 40             | 40             | 40             | 50             | 60             | 60             |
| C5 <sup>7</sup>  | 30             | 30             | 50             | 80             | 80             | 80             | 110            | 130            | 130            |
| C6 <sup>7</sup>  | 3.5            | 3.5            | 8              | 4              | 4              | 4              | 5              | 6              | 6              |
| C7 <sup>7</sup>  | 42             | 42             | 60             | 92             | 92             | 92             | 115            | 142            | 142            |
| C8 <sup>7</sup>  | 21.5           | 21.5           | 21.5           | 20             | 20             | 20             | 24             | 31             | 31             |
| C9 <sup>7</sup>  | 161.5          | 181            | 210.5          | 252            | 304.5          | 347.5          | 440.5          | 510            | 559            |
| C10 <sup>7</sup> | 14.55          | 14.5           | 15.5           | 13             | 13             | 13             | 16             | 21             | 21             |
| B1 h9            | 5              | 5              | 6              | 6              | 10             | 12             | 14             | 16             | 18             |
| H1               | 15             | 18             | 20.5           | 24.5           | 35             | 43             | 53.5           | 59             | 64             |

7. C1-C10为公制马达规范尺寸。



SFT-FL1/FR1 / SFTB-FL1/FR1 系列

尺寸 (三节, 减速比*i*=75-500)



\* SFTB系列的尺寸与SFT系列相同。

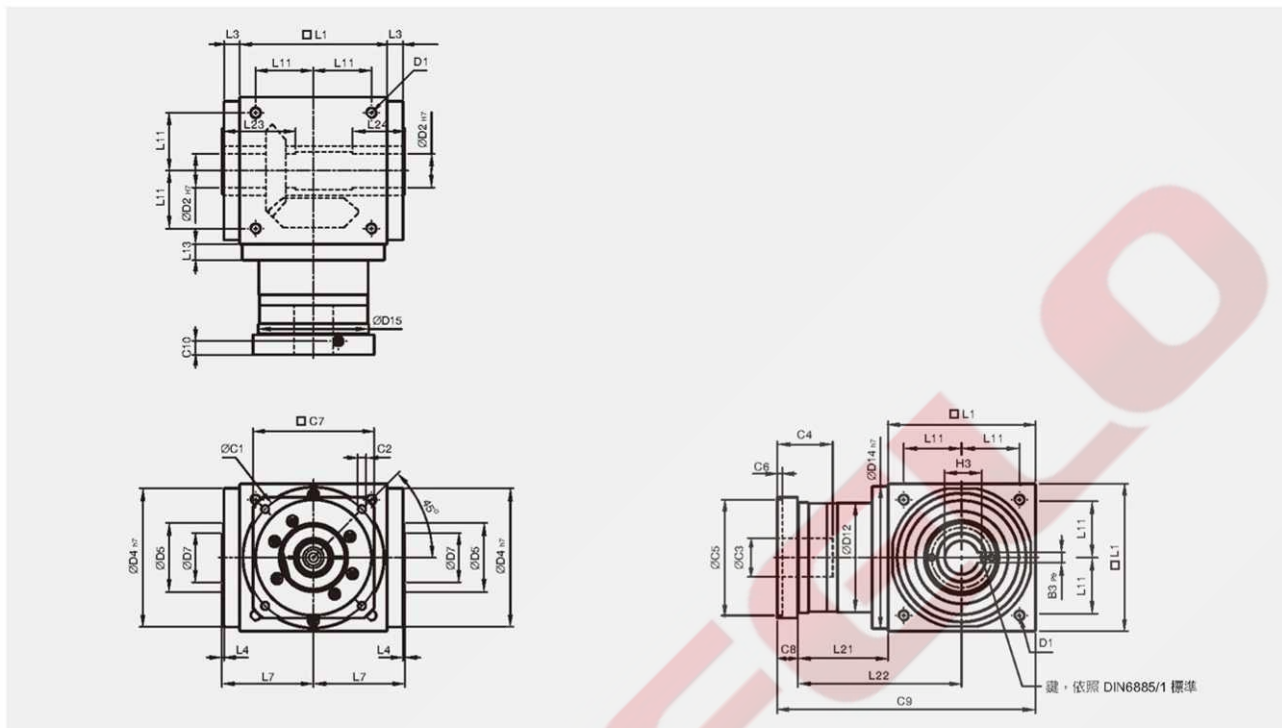
(单位: mm)

| 尺寸               | SFT110 FL1/FR1 | SFT140 FL1/FR1 | SFT170 FL1/FR1 | SFT210 FL1/FR1 | SFT240 FL1/FR1 | SFT280 FL1/FR1 |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| D1               | M8             | M10            | M12            | M16            | M16            | M16            |
| D3 k6            | 22             | 32             | 40             | 50             | 55             | 60             |
| D4 h7            | 108            | 135            | 165            | 205            | 235            | 275            |
| D5               | 53             | 68             | 83             | 104            | 124            | 144            |
| D6               | M8             | M12            | M16            | M16            | M16            | M20            |
| D7               | 33             | 47             | 55             | 75             | 85             | 110            |
| D12              | 106            | 104            | 128            | 160            | 180            | 200            |
| D14 h7           | 108            | 135            | 165            | 205            | 235            | 275            |
| D15              | 107            | 106            | 127            | 158            | 178            | 198            |
| L1               | 110            | 140            | 170            | 210            | 240            | 280            |
| L2               | 40             | 50             | 60             | 75             | 85             | 110            |
| L3               | 15             | 15             | 15             | 20             | 25             | 25             |
| L4               | 2              | 2              | 2              | 2              | 2              | 2              |
| L5               | 32             | 45             | 50             | 70             | 80             | 100            |
| L6               | 4              | 2.5            | 5              | 2.5            | 2.5            | 5              |
| L7               | 72             | 87             | 102            | 127            | 147            | 167            |
| L8               | 112            | 137            | 162            | 202            | 232            | 277            |
| L9               | 7.2            | 10             | 12             | 12             | 12             | 15             |
| L10              | 19             | 28             | 36             | 36             | 36             | 42             |
| L11              | 44             | 55             | 67             | 85             | 95             | 110            |
| L13              | 15             | 15             | 15             | 20             | 25             | 25             |
| L21              | 136.5          | 159.5          | 183.5          | 226            | 269            | 278            |
| L22              | 191.5          | 229.5          | 268.5          | 331            | 389            | 418            |
| C1 <sup>8</sup>  | 46             | 46             | 70             | 70             | 100            | 100            |
| C2 <sup>8</sup>  | M4             | M4             | M5             | M5             | M6             | M6             |
| C3 <sup>8</sup>  | ≤12            | ≤12            | ≤16            | ≤16            | ≤24            | ≤24            |
| C4 <sup>8</sup>  | 30             | 30             | 34             | 34             | 40             | 40             |
| C5 <sup>8</sup>  | 30             | 30             | 50             | 50             | 80             | 80             |
| C6 <sup>8</sup>  | 3.5            | 3.5            | 8              | 8              | 4              | 4              |
| C7 <sup>8</sup>  | 42             | 42             | 60             | 60             | 92             | 92             |
| C8 <sup>8</sup>  | 21.5           | 21.5           | 21.5           | 21.5           | 20             | 20             |
| C9 <sup>8</sup>  | 268            | 321            | 375            | 457.5          | 529            | 578            |
| C10 <sup>8</sup> | 14.5           | 14.5           | 15.5           | 15.5           | 13             | 13             |
| B1 h9            | 6              | 10             | 12             | 14             | 16             | 18             |
| H1               | 24.5           | 35             | 43             | 53.5           | 59             | 64             |

8. C1-C10 为公制马達規範尺寸。

## SFT-FH/SFTB-FH 系列

尺寸 (单节, 减速比*i*=1-5)



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

| 尺寸                | SFT065FH                | SFT075FH                          | SFT090FH | SFT110FH | SFT140FH | SFT170FH | SFT210FH | SFT240FH | SFT280FH |
|-------------------|-------------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|
| D1                | M4                      | M6                                | M6       | M8       | M10      | M12      | M16      | M16      | M16      |
| D2 <sub>H7</sub>  | 13                      | 14                                | 18       | 22       | 32       | 40       | 50       | 55       | 60       |
| D4 <sub>H7</sub>  | 63                      | 73                                | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D5                | 31                      | 35                                | 43       | 53       | 68       | 83       | 104      | 124      | 144      |
| D7                | 21                      | 22                                | 28       | 33       | 47       | 55       | 75       | 85       | 110      |
| D12               | 62                      | 72                                | 86       | 106      | 104      | 128      | 160      | 180      | 200      |
| D14 <sub>H7</sub> | 63                      | 73                                | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D15               | 62.9                    | 72.9                              | 87       | 107      | 105      | 127      | 158      | 178      | 198      |
| L1                | 65                      | 75                                | 90       | 110      | 140      | 170      | 210      | 240      | 280      |
| L3                | 13                      | 14.5                              | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L4                | 2                       | 2                                 | 2        | 2        | 2        | 2        | 2        | 2        | 2        |
| L7                | 47.5                    | 54                                | 62       | 72       | 87       | 102      | 127      | 147      | 167      |
| L11               | 27                      | 30                                | 36       | 44       | 55       | 67       | 85       | 95       | 110      |
| L13               | 13                      | 15                                | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L21               | 49                      | 60.5                              | 63       | 69.5     | 85.5     | 95       | 130      | 144.5    | 135      |
| L22               | 81.5                    | 98                                | 108      | 124.5    | 155.5    | 180      | 235      | 264.5    | 275      |
| L23               | 40                      | 47                                | 52       | 53       | 70       | 80       | 95       | 115      | 115      |
| L24               | 30                      | 32                                | 35       | 35       | 50       | 55       | 65       | 80       | 80       |
| C1 <sup>9</sup>   | 46                      | 70                                | 100      | 100      | 130      | 165      | 215      | 215      | 235      |
| C2 <sup>9</sup>   | M4                      | M5                                | M6       | M6       | M8       | M10      | M12      | M12      | M12      |
| C3 <sup>9</sup>   | ≤11 / ≤12 <sup>10</sup> | ≤14 / ≤15.875 / ≤16 <sup>10</sup> | ≤19      | ≤24      | ≤32      | ≤38      | ≤42      | ≤48      | ≤55      |
| C4 <sup>9</sup>   | 30                      | 34                                | 40       | 40       | 50       | 60       | 85       | 85       | 116      |
| C5 <sup>9</sup>   | 30                      | 50                                | 80       | 80       | 110      | 130      | 180      | 180      | 200      |
| C6 <sup>9</sup>   | 3.5                     | 8                                 | 4        | 4        | 5        | 6        | 6        | 6        | 6        |
| C7 <sup>9</sup>   | 42                      | 60                                | 90       | 90       | 115      | 142      | 190      | 190      | 220      |
| C8 <sup>9</sup>   | 19.5                    | 19                                | 17       | 17       | 19.5     | 22.5     | 29       | 29       | 63       |
| C9 <sup>9</sup>   | 133.5                   | 154.5                             | 170      | 196.5    | 245      | 287.5    | 369      | 413.5    | 478      |
| C10 <sup>9</sup>  | 13.25                   | 13.5                              | 10.75    | 10.75    | 13       | 15       | 20.75    | 20.75    | 53.5     |
| B3 <sub>P9</sub>  | 5                       | 5                                 | 6        | 6        | 10       | 12       | 14       | 16       | 18       |
| H3                | 15.3                    | 16.3                              | 20.8     | 24.8     | 35.3     | 43.3     | 53.8     | 59.3     | 64.4     |

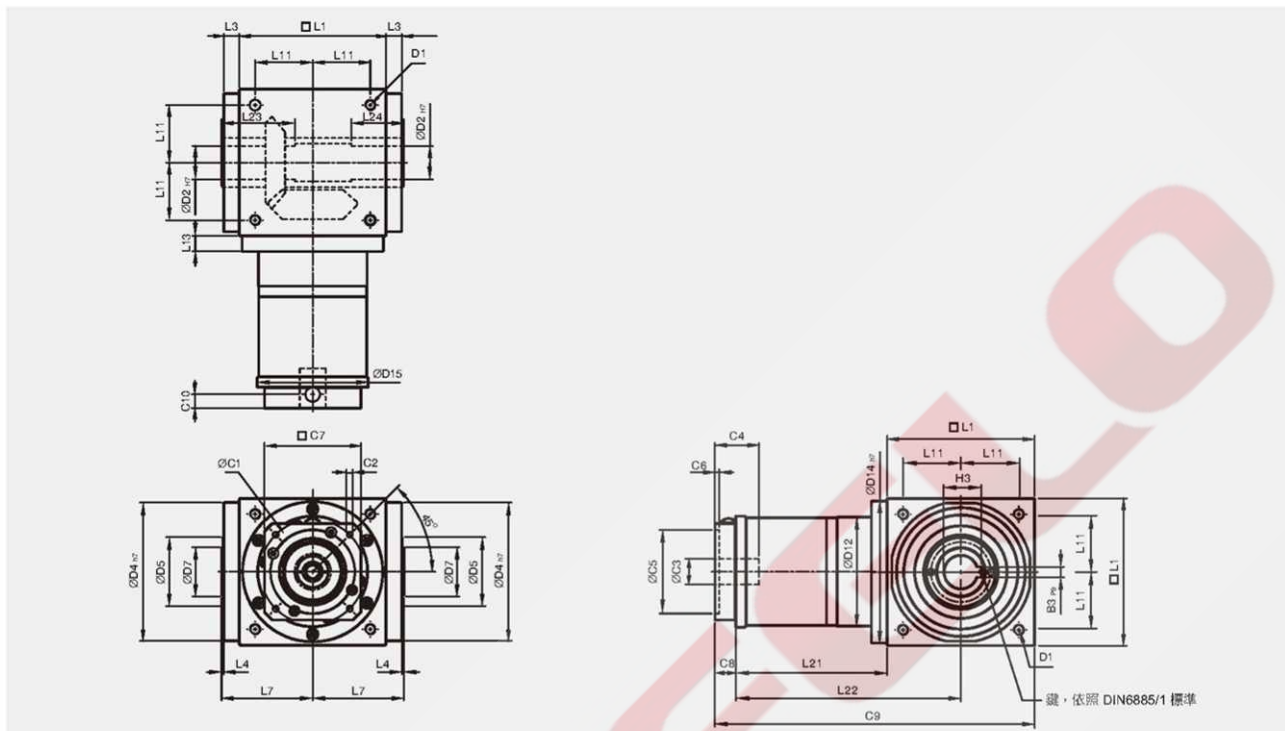
9.C1-C10为公制马达规范尺寸。

10.SFT065 FLM1提供C3≤12选择; SFT075 FLM1提供C3≤16选择; SFT075 FLM2提供C3≤15.875选择。



## SFT-FH/SFTB-FH 系列

尺寸 ( 双节, 减速比 $i=7-50$  )



\* SFTB系列的尺寸与SFT系列相同。

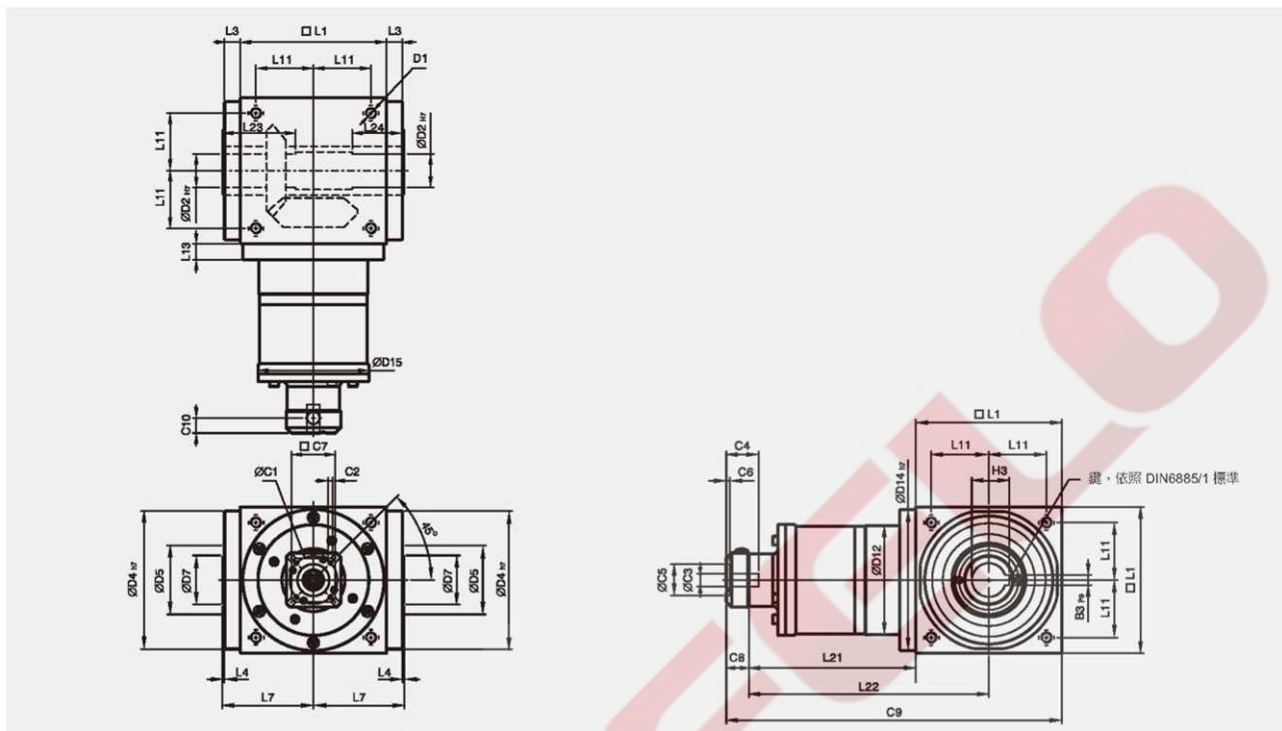
(單位：mm)

| 尺寸                | SFT065FH | SFT075FH | SFT090FH | SFT110FH | SFT140FH | SFT170FH | SFT210FH | SFT240FH | SFT280FH |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| D1                | M4       | M6       | M6       | M8       | M10      | M12      | M16      | M16      | M16      |
| D2 h7             | 13       | 14       | 18       | 22       | 32       | 40       | 50       | 55       | 60       |
| D4 h7             | 63       | 73       | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D5                | 31       | 35       | 43       | 53       | 68       | 83       | 104      | 124      | 144      |
| D7                | 21       | 22       | 28       | 33       | 47       | 55       | 75       | 85       | 110      |
| D12               | 62       | 72       | 86       | 106      | 104      | 128      | 160      | 180      | 200      |
| D14 h7            | 63       | 73       | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D15               | 62.9     | 72.9     | 87       | 107      | 106      | 127      | 158      | 178      | 198      |
| L1                | 65       | 75       | 90       | 110      | 140      | 170      | 210      | 240      | 280      |
| L3                | 13       | 14.5     | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L4                | 2        | 2        | 2        | 2        | 2        | 2        | 2        | 2        | 2        |
| L7                | 47.5     | 54       | 62       | 72       | 87       | 102      | 127      | 147      | 167      |
| L11               | 27       | 30       | 36       | 44       | 55       | 67       | 85       | 95       | 110      |
| L13               | 13       | 15       | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L21               | 75       | 84.5     | 99       | 122      | 144.5    | 157.5    | 206.5    | 239      | 248      |
| L22               | 107.5    | 122      | 144      | 177      | 214.5    | 242.5    | 311.5    | 359      | 388      |
| L23               | 40       | 47       | 52       | 53       | 70       | 80       | 95       | 115      | 115      |
| L24               | 30       | 32       | 35       | 35       | 50       | 55       | 65       | 80       | 80       |
| C1 <sup>11</sup>  | 46       | 46       | 70       | 100      | 100      | 100      | 130      | 165      | 165      |
| C2 <sup>11</sup>  | M4       | M4       | M5       | M6       | M6       | M6       | M8       | M10      | M10      |
| C3 <sup>11</sup>  | ≤12      | ≤12      | ≤16      | ≤24      | ≤24      | ≤24      | ≤32      | ≤38      | ≤38      |
| C4 <sup>11</sup>  | 30       | 30       | 34       | 40       | 40       | 40       | 50       | 60       | 60       |
| C5 <sup>11</sup>  | 30       | 30       | 50       | 80       | 80       | 80       | 110      | 130      | 130      |
| C6 <sup>11</sup>  | 3.5      | 3.5      | 8        | 4        | 4        | 4        | 5        | 6        | 6        |
| C7 <sup>11</sup>  | 42       | 42       | 60       | 92       | 92       | 92       | 115      | 142      | 142      |
| C8 <sup>11</sup>  | 21.5     | 21.5     | 21.5     | 20       | 20       | 20       | 24       | 31       | 31       |
| C9 <sup>11</sup>  | 161.5    | 181      | 210.5    | 252      | 304.5    | 347.5    | 440.5    | 510      | 559      |
| C10 <sup>11</sup> | 14.5     | 14.5     | 15.5     | 13       | 13       | 13       | 16       | 21       | 21       |
| B3 P9             | 5        | 5        | 6        | 6        | 10       | 12       | 14       | 16       | 18       |
| H3                | 15.3     | 16.3     | 20.8     | 24.8     | 35.3     | 43.3     | 53.8     | 59.3     | 64.4     |

11.C1-C10为公制马达规范尺寸。

SFT-FH/SFTB-FH 系列

尺寸 (三节, 减速比*i*=75-500)



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

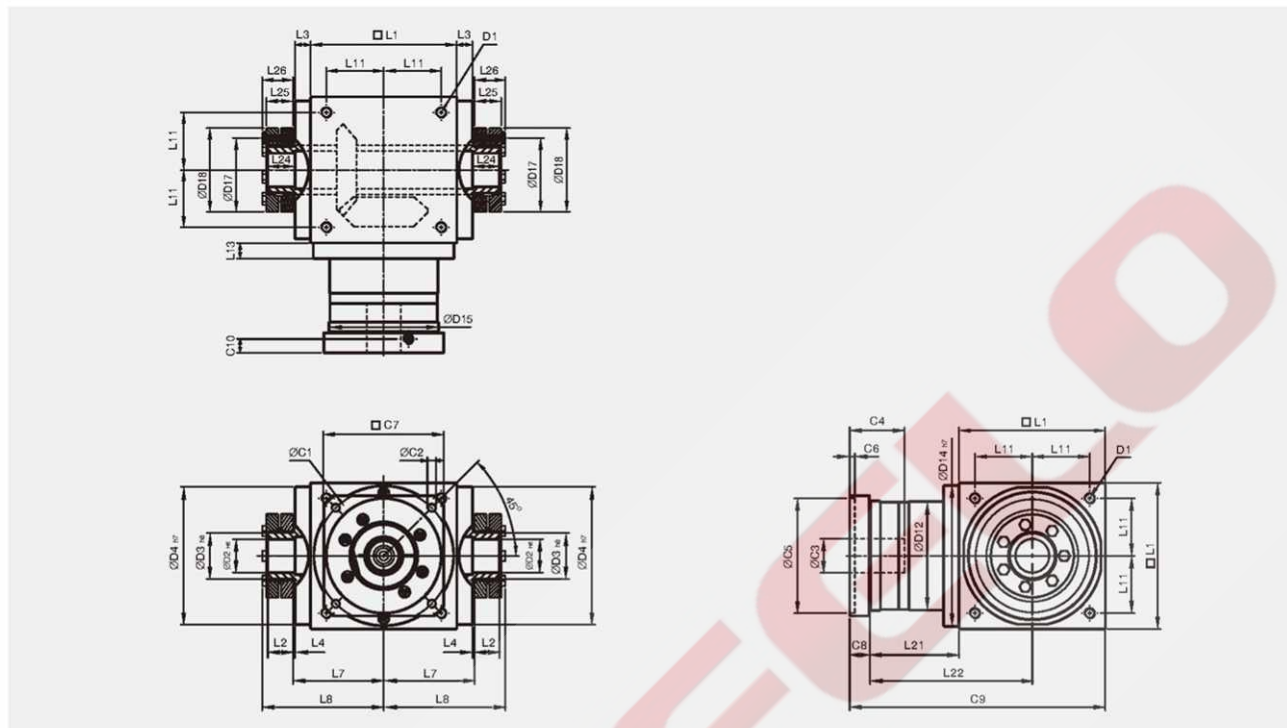
| 尺寸                | SFT110FH | SFT140FH | SFT170FH | SFT210FH | SFT240FH | SFT280FH |
|-------------------|----------|----------|----------|----------|----------|----------|
| D1                | M8       | M10      | M12      | M16      | M16      | M16      |
| D2 <sub>H7</sub>  | 22       | 32       | 40       | 50       | 55       | 60       |
| D4 <sub>H7</sub>  | 108      | 135      | 165      | 205      | 235      | 275      |
| D5                | 53       | 68       | 83       | 104      | 124      | 144      |
| D7                | 33       | 47       | 55       | 75       | 85       | 110      |
| D12               | 106      | 104      | 128      | 160      | 180      | 200      |
| D14 <sub>H7</sub> | 108      | 135      | 165      | 205      | 235      | 275      |
| D15               | 107      | 106      | 127      | 158      | 178      | 198      |
| L1                | 110      | 140      | 170      | 210      | 240      | 280      |
| L3                | 15       | 15       | 15       | 20       | 25       | 25       |
| L4                | 2        | 2        | 2        | 2        | 2        | 2        |
| L7                | 72       | 87       | 102      | 127      | 147      | 167      |
| L11               | 44       | 55       | 67       | 85       | 95       | 110      |
| L13               | 15       | 15       | 15       | 20       | 25       | 25       |
| L21               | 136.5    | 159.5    | 183.5    | 226      | 269      | 278      |
| L22               | 191.5    | 229.5    | 268.5    | 331      | 389      | 418      |
| L23               | 53       | 70       | 80       | 95       | 115      | 115      |
| L24               | 35       | 50       | 55       | 65       | 80       | 80       |
| C1 <sup>12</sup>  | 46       | 46       | 70       | 70       | 100      | 100      |
| C2 <sup>12</sup>  | M4       | M4       | M5       | M5       | M6       | M6       |
| C3 <sup>12</sup>  | ≤12      | ≤12      | ≤16      | ≤16      | ≤24      | ≤24      |
| C4 <sup>12</sup>  | 30       | 30       | 34       | 34       | 40       | 40       |
| C5 <sup>12</sup>  | 30       | 30       | 50       | 50       | 80       | 80       |
| C6 <sup>12</sup>  | 3.5      | 3.5      | 8        | 8        | 4        | 4        |
| C7 <sup>12</sup>  | 42       | 42       | 60       | 60       | 92       | 92       |
| C8 <sup>12</sup>  | 21.5     | 21.5     | 21.5     | 21.5     | 20       | 20       |
| C9 <sup>12</sup>  | 268      | 321      | 375      | 457.5    | 529      | 578      |
| C10 <sup>12</sup> | 14.5     | 14.5     | 15.5     | 15.5     | 13       | 13       |
| B3 <sub>P9</sub>  | 6        | 10       | 12       | 14       | 16       | 18       |
| H3                | 24.8     | 35.3     | 43.3     | 53.8     | 59.3     | 64.4     |

12.C1-C10为公制马达规范尺寸。



## SFT-FC/SFTB-FC 系列

尺寸 (单节, 减速比*i*=1-5)



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

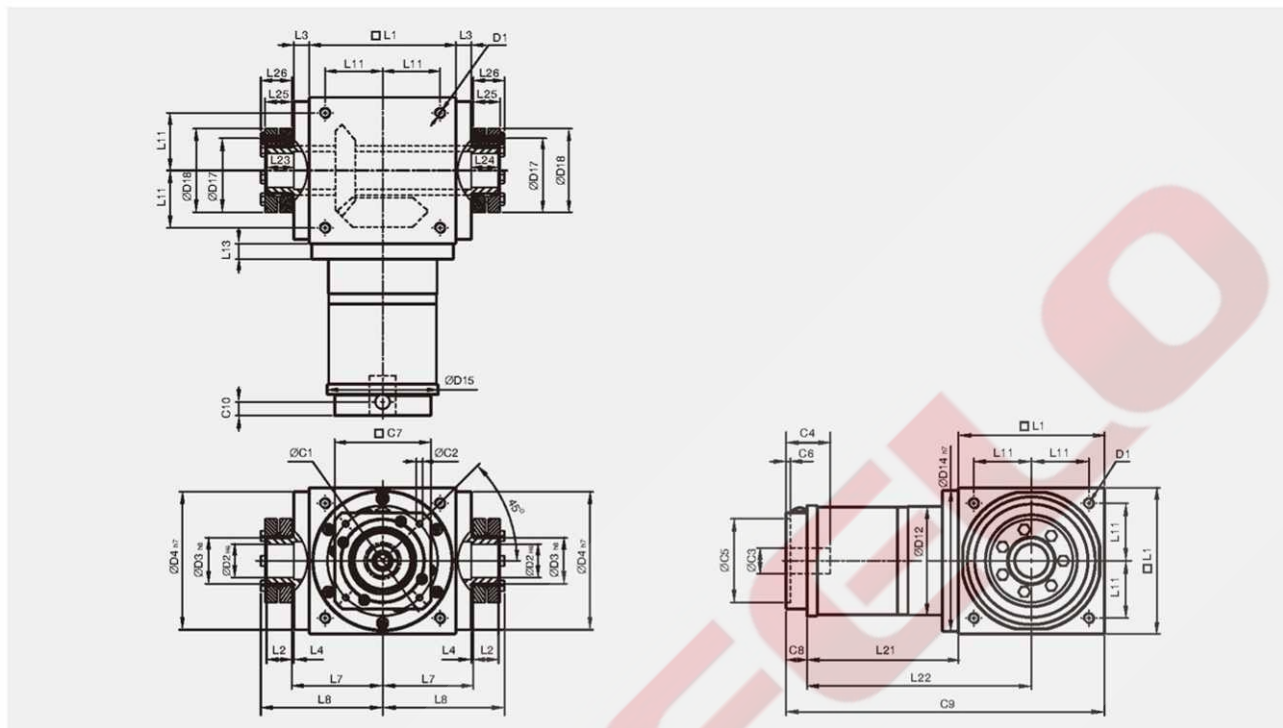
| 尺寸                | SFT065FC                | SFT075FC                          | SFT090FC | SFT110FC | SFT140FC | SFT170FC | SFT210FC | SFT240FC | SFT280FC |
|-------------------|-------------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|
| D1                | M4                      | M6                                | M6       | M8       | M10      | M12      | M16      | M16      | M16      |
| D2 H6             | 13                      | 14                                | 18       | 22       | 32       | 40       | 50       | 55       | 60       |
| D3 h8             | 16                      | 16                                | 22       | 25       | 44       | 50       | 62       | 68       | 75       |
| D4 h7             | 63                      | 73                                | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D12               | 62                      | 72                                | 86       | 106      | 104      | 128      | 160      | 180      | 200      |
| D14 h7            | 63                      | 73                                | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D15               | 62.9                    | 72.9                              | 87       | 107      | 105      | 130      | 158      | 178      | 198      |
| D17               | 26                      | 26                                | 36       | 38       | 61       | 70       | 86       | 86       | 100      |
| D18               | 41                      | 41                                | 50       | 50       | 80       | 90       | 110      | 115      | 138      |
| L1                | 65                      | 75                                | 90       | 110      | 140      | 170      | 210      | 240      | 280      |
| L2                | 14                      | 14                                | 18       | 18       | 24       | 26       | 29       | 29       | 30.5     |
| L3                | 13                      | 14.5                              | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L4                | 2                       | 2                                 | 2        | 2        | 2        | 2        | 2        | 2        | 2        |
| L7                | 47.5                    | 54                                | 62       | 72       | 87       | 102      | 127      | 147      | 167      |
| L8                | 66                      | 72.5                              | 85       | 95       | 116.5    | 133.5    | 161.5    | 181.5    | 205      |
| L11               | 27                      | 30                                | 36       | 44       | 55       | 67       | 85       | 95       | 110      |
| L13               | 13                      | 15                                | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L21               | 49                      | 60.5                              | 63       | 69.5     | 85.5     | 95       | 130      | 144.5    | 135      |
| L22               | 81.5                    | 98                                | 108      | 124.5    | 155.5    | 180      | 235      | 264.5    | 275      |
| L23               | 15                      | 15                                | 20       | 20       | 26       | 28       | 31       | 31       | 32.5     |
| L24               | 15                      | 15                                | 20       | 20       | 26       | 28       | 31       | 31       | 32.5     |
| L25               | 15                      | 15                                | 19.5     | 19.5     | 25.5     | 27.5     | 30.5     | 30.5     | 32.5     |
| L26               | 18.5                    | 18.5                              | 23       | 23       | 29.5     | 31.5     | 34.5     | 34.5     | 38       |
| C1 <sup>13</sup>  | 46                      | 70                                | 100      | 100      | 130      | 165      | 215      | 215      | 235      |
| C2 <sup>13</sup>  | M4                      | M5                                | M6       | M6       | M8       | M10      | M12      | M12      | M12      |
| C3 <sup>13</sup>  | ≤11 / ≤12 <sup>14</sup> | ≤14 / ≤15.875 / ≤16 <sup>14</sup> | ≤19      | ≤24      | ≤32      | ≤38      | ≤42      | ≤48      | ≤55      |
| C4 <sup>13</sup>  | 30                      | 34                                | 40       | 40       | 50       | 60       | 85       | 85       | 116      |
| C5 <sup>13</sup>  | 30                      | 50                                | 80       | 80       | 110      | 130      | 180      | 180      | 200      |
| C6 <sup>13</sup>  | 3.5                     | 8                                 | 4        | 4        | 5        | 6        | 6        | 6        | 6        |
| C7 <sup>13</sup>  | 42                      | 60                                | 90       | 90       | 115      | 142      | 190      | 190      | 220      |
| C8 <sup>13</sup>  | 19.5                    | 19                                | 17       | 17       | 19.5     | 22.5     | 29       | 29       | 63       |
| C9 <sup>13</sup>  | 133.5                   | 154.5                             | 170      | 196.5    | 245      | 287.5    | 369      | 413.5    | 478      |
| C10 <sup>13</sup> | 13.25                   | 13.5                              | 10.75    | 10.75    | 13       | 15       | 20.75    | 20.75    | 53.5     |

13. C1-C10为公制马达规范尺寸。

14. SF065FCM1提供C3≤12选择; SFT075FCM1提供C3≤16选择; SF075FCM2提供C3≤15.875选择。

# SFT-FC/SFTB-FC 系列

尺寸 (双节, 减速比*i*=7~50)



\* SFTB系列的尺寸与SFT系列相同。

(单位: mm)

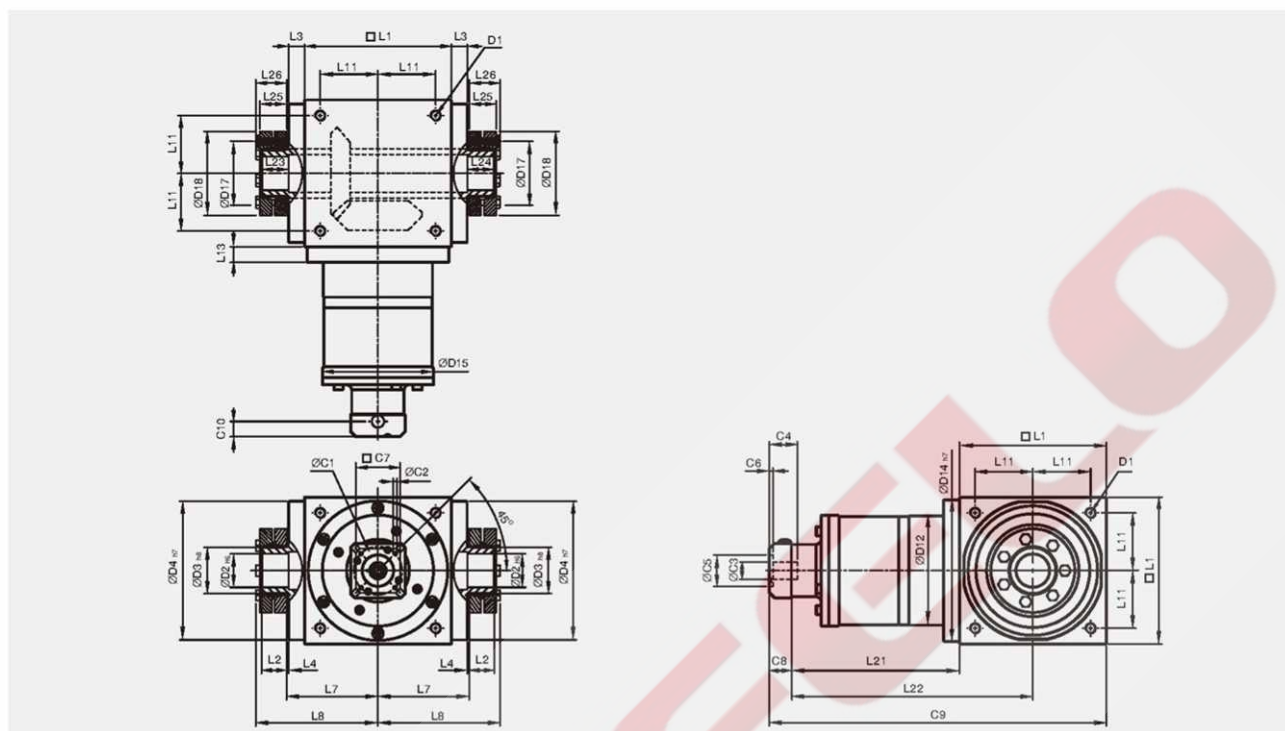
| 尺寸                | SFT065FC | SFT075FC | SFT090FC | SFT110FC | SFT140FC | SFT170FC | SFT210FC | SFT240FC | SFT280FC |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| D1                | M4       | M6       | M6       | M8       | M10      | M12      | M16      | M16      | M16      |
| D2 H6             | 13       | 14       | 18       | 22       | 32       | 40       | 50       | 55       | 60       |
| D3 h8             | 16       | 16       | 22       | 25       | 44       | 50       | 62       | 68       | 75       |
| D4 h7             | 63       | 73       | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D12               | 62       | 72       | 86       | 106      | 104      | 128      | 160      | 180      | 200      |
| D14 h7            | 63       | 73       | 88       | 108      | 135      | 165      | 205      | 235      | 275      |
| D15               | 62.9     | 72.9     | 87       | 107      | 106      | 127      | 158      | 178      | 198      |
| D17               | 26       | 26       | 36       | 38       | 61       | 70       | 86       | 86       | 100      |
| D18               | 41       | 41       | 50       | 50       | 80       | 90       | 110      | 115      | 138      |
| L1                | 65       | 75       | 90       | 110      | 140      | 170      | 210      | 240      | 280      |
| L2                | 14       | 14       | 18       | 18       | 24       | 26       | 29       | 29       | 30.5     |
| L3                | 13       | 14.5     | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L4                | 2        | 2        | 2        | 2        | 2        | 2        | 2        | 2        | 2        |
| L7                | 47.5     | 54       | 62       | 72       | 87       | 102      | 127      | 147      | 167      |
| L8                | 66       | 72.5     | 85       | 95       | 116.5    | 133.5    | 161.5    | 181.5    | 205      |
| L11               | 27       | 30       | 36       | 44       | 55       | 67       | 85       | 95       | 110      |
| L13               | 13       | 15       | 15       | 15       | 15       | 15       | 20       | 25       | 25       |
| L21               | 75       | 84.5     | 99       | 122      | 144.5    | 157.5    | 206.5    | 239      | 248      |
| L22               | 107.5    | 122      | 144      | 177      | 214.5    | 242.5    | 311.5    | 359      | 388      |
| L23               | 15       | 15       | 20       | 20       | 26       | 28       | 31       | 31       | 32.5     |
| L24               | 15       | 15       | 20       | 20       | 26       | 28       | 31       | 31       | 32.5     |
| L25               | 15       | 15       | 19.5     | 19.5     | 25.5     | 27.5     | 30.5     | 30.5     | 32.5     |
| L26               | 18.5     | 18.5     | 23       | 23       | 29.5     | 31.5     | 34.5     | 34.5     | 38       |
| C1 <sup>15</sup>  | 46       | 46       | 70       | 100      | 100      | 100      | 130      | 165      | 165      |
| C2 <sup>15</sup>  | M4       | M4       | M5       | M6       | M6       | M6       | M8       | M10      | M10      |
| C3 <sup>15</sup>  | ≤12      | ≤12      | ≤16      | ≤24      | ≤24      | ≤24      | ≤32      | ≤38      | ≤38      |
| C4 <sup>15</sup>  | 30       | 30       | 34       | 40       | 40       | 40       | 50       | 60       | 60       |
| C5 <sup>15</sup>  | 30       | 30       | 50       | 80       | 80       | 80       | 110      | 130      | 130      |
| C6 <sup>15</sup>  | 3.5      | 3.5      | 8        | 4        | 4        | 4        | 5        | 6        | 6        |
| C7 <sup>15</sup>  | 42       | 42       | 60       | 92       | 92       | 92       | 115      | 142      | 142      |
| C8 <sup>15</sup>  | 21.5     | 21.5     | 21.5     | 20       | 20       | 20       | 24       | 31       | 31       |
| C9 <sup>15</sup>  | 161.5    | 181      | 210.5    | 252      | 304.5    | 347.5    | 440.5    | 510      | 559      |
| C10 <sup>15</sup> | 14.5     | 14.5     | 15.5     | 13       | 13       | 13       | 16       | 21       | 21       |

15. C1~C10 为公制标准规范尺寸。



## SFT-FC/SFTB-FC 系列

尺寸 (三节, 减速比 $i=75-500$ )



\* SFTB系列的尺寸与SFT系列相同。

(單位：mm)

| 尺寸                | SFT110FC | SFT140FC | SFT170FC | SFT210FC | SFT240FC | SFT280FC |
|-------------------|----------|----------|----------|----------|----------|----------|
| D1                | M8       | M10      | M12      | M16      | M16      | M16      |
| D2 H6             | 22       | 32       | 40       | 50       | 55       | 60       |
| D3 h8             | 25       | 44       | 50       | 62       | 68       | 75       |
| D4 h7             | 108      | 135      | 165      | 205      | 235      | 275      |
| D12               | 106      | 104      | 128      | 160      | 180      | 200      |
| D14 h7            | 108      | 135      | 165      | 205      | 235      | 275      |
| D15               | 107      | 106      | 127      | 158      | 178      | 198      |
| D17               | 38       | 61       | 70       | 86       | 86       | 100      |
| D18               | 50       | 80       | 90       | 110      | 115      | 138      |
| L1                | 110      | 140      | 170      | 210      | 240      | 280      |
| L2                | 18       | 24       | 26       | 29       | 29       | 30.5     |
| L3                | 15       | 15       | 15       | 20       | 25       | 25       |
| L4                | 2        | 2        | 2        | 2        | 2        | 2        |
| L7                | 72       | 87       | 102      | 127      | 147      | 167      |
| L8                | 95       | 116.5    | 133.5    | 161.5    | 181.5    | 205      |
| L11               | 44       | 55       | 67       | 85       | 95       | 110      |
| L13               | 15       | 15       | 15       | 20       | 25       | 25       |
| L21               | 136.5    | 159.5    | 183.5    | 226      | 269      | 278      |
| L22               | 191.5    | 229.5    | 268.5    | 331      | 389      | 418      |
| L23               | 20       | 26       | 28       | 31       | 31       | 32.5     |
| L24               | 20       | 26       | 28       | 31       | 31       | 32.5     |
| L25               | 19.5     | 25.5     | 27.5     | 30.5     | 30.5     | 32.5     |
| L26               | 23       | 29.5     | 31.5     | 34.5     | 34.5     | 38       |
| C1 <sup>16</sup>  | 46       | 46       | 70       | 70       | 100      | 100      |
| C2 <sup>16</sup>  | M4       | M4       | M5       | M5       | M6       | M6       |
| C3 <sup>16</sup>  | ≤12      | ≤12      | ≤16      | ≤16      | ≤24      | ≤24      |
| C4 <sup>16</sup>  | 30       | 30       | 34       | 34       | 40       | 40       |
| C5 <sup>16</sup>  | 30       | 30       | 50       | 50       | 80       | 80       |
| C6 <sup>16</sup>  | 3.5      | 3.5      | 8        | 8        | 4        | 4        |
| C7 <sup>16</sup>  | 42       | 42       | 60       | 60       | 92       | 92       |
| C8 <sup>16</sup>  | 21.5     | 21.5     | 21.5     | 21.5     | 20       | 20       |
| C9 <sup>16</sup>  | 268      | 321      | 375      | 457.5    | 529      | 578      |
| C10 <sup>16</sup> | 14.5     | 14.5     | 15.5     | 15.5     | 13       | 13       |

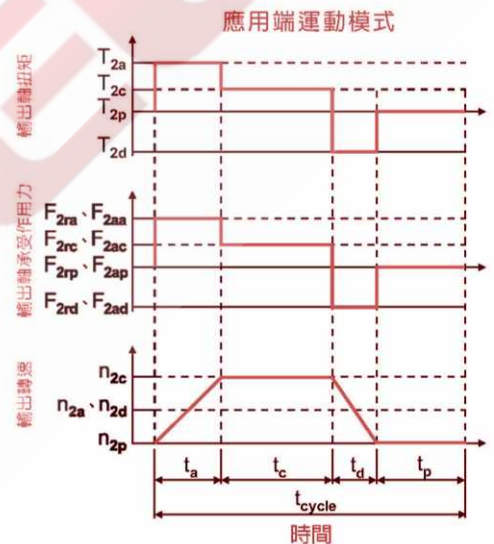
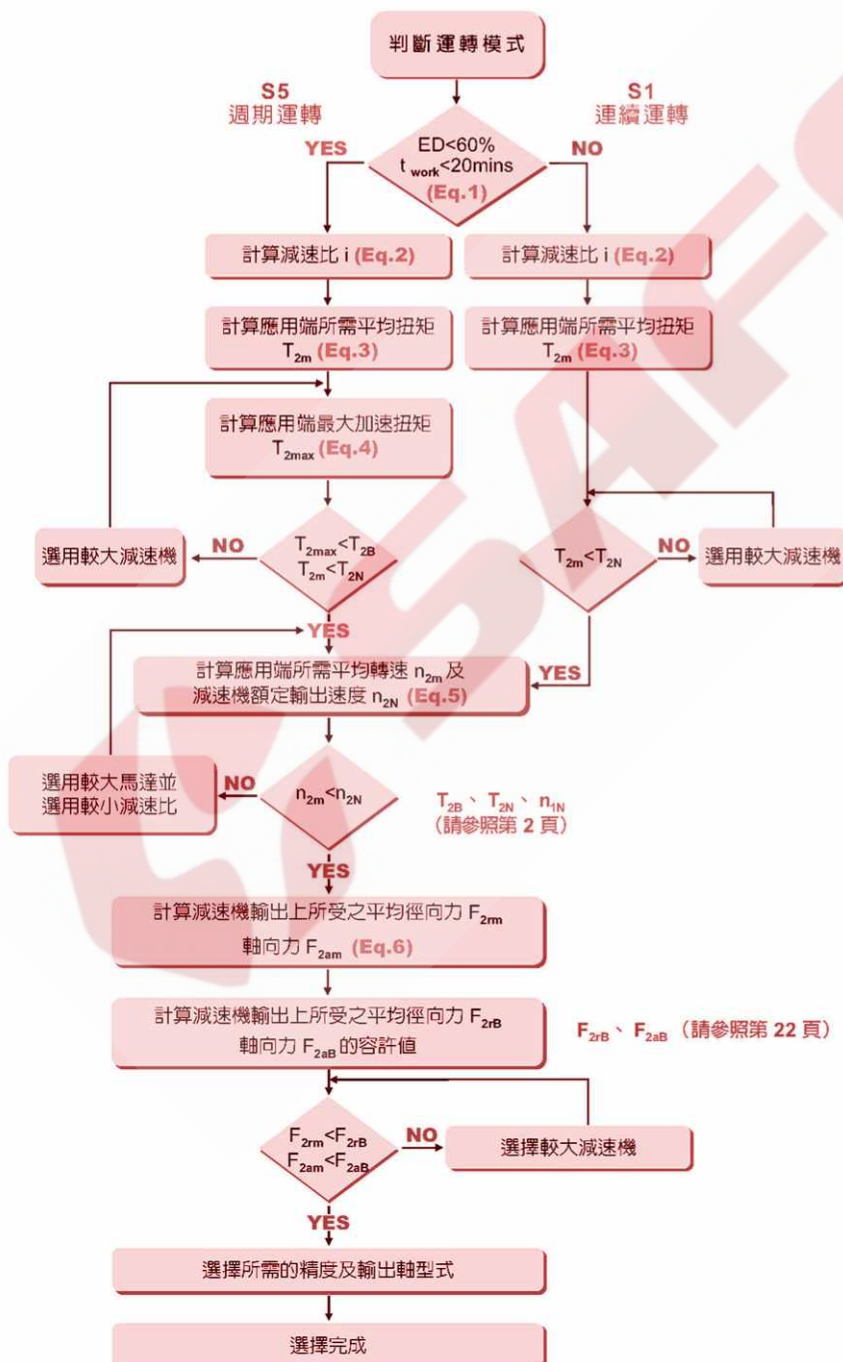
15.C1-C10为公制马达规范尺寸。

## 缩紧盘附件选配

(單位: mm)

| C / FC 系列    | D1  | D2 | D3  | H1   | H2   |
|--------------|-----|----|-----|------|------|
| SSD-d16xdw14 | 41  | 16 | 26  | 15   | 18.5 |
| SSD-d22xdw18 | 50  | 22 | 36  | 19.5 | 23   |
| SSD-d25xdw22 | 50  | 25 | 38  | 19.5 | 23   |
| SSD-d44xdw32 | 80  | 44 | 61  | 25.5 | 29.5 |
| SSD-d50xdw40 | 90  | 50 | 70  | 27.5 | 31.5 |
| SSD-d62xdw50 | 110 | 62 | 86  | 30.5 | 34.5 |
| SSD-d68xdw55 | 115 | 68 | 86  | 30.5 | 34.5 |
| SSD-d75xdw60 | 138 | 75 | 100 | 32.5 | 38   |

## 如何選用減速機



$$1. ED = \frac{t_a + t_c + t_d}{t_{cycle}} \times 100\%, t_{work} = t_a + t_c + t_d$$

下標說明: a. 加速, c. 等速,  
d. 減速, p. 停止 (Eq.1)

$$2. i \cong \frac{n_m}{n_{work}}$$

$n_m$  馬達輸出速度  
 $n_{work}$  實際應用速度 (Eq.2)

$$3. T_{2m} = \sqrt[3]{\frac{n_{2a} \times t_a \times T_{2a}^3 + n_{2c} \times t_c \times T_{2c}^3 + n_{2d} \times t_d \times T_{2d}^3}{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}} \quad (Eq.3)$$

$$4. T_{2max} = T_{mb} \times i \times k_s \times \eta$$

$K_s$  負載係數

| $K_s$           | 週期次數/小時        |
|-----------------|----------------|
| 1.0             | 0~1,000        |
| 1.1             | 1,000 ~ 1,500  |
| 1.3             | 1,500 ~ 2,000  |
| 1.6             | 2,000 ~ 3,000  |
| 1.8             | 3,000 ~ 5,000  |
| 2.0             | 5,000 ~ 9,000  |
| 2.05            | 9,000 ~ 10,000 |
| not recommended | above 10,000   |



## 缩紧盘附件选配

### S5 週期運轉之建議事項

一般的應用慣量須符合以下公式：

$$\frac{J_L}{i^2} \leq 4 \times J_m$$

最適當的應用慣量須符合以下公式：

$$\frac{J_L}{i^2} \cong J_m$$

$J_L$  負載慣量

$J_m$  馬達慣量

$T_{mB}$  馬達最大輸出扭矩

$\eta$  減速機運轉效率 (Eq.4)

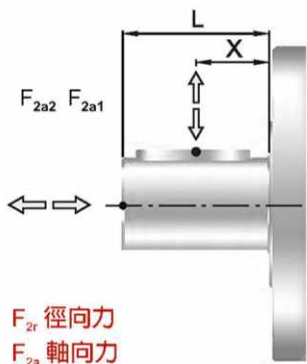
$$5. n_{2a} = n_{2d} = \frac{1}{2} \times n_{2c}$$

$$n_{2m} = \frac{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}{t_a + t_c + t_d}$$

$$n_{2N} = \frac{n_{1N}}{i} \quad (\text{Eq.5})$$

$$6. F_{2m} = \sqrt[3]{\frac{n_{2a} \times t_a \times F_{2ra}^3 + n_{2c} \times t_c \times F_{2rc}^3 + n_{2d} \times t_d \times F_{2rd}^3}{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}}$$

$$F_{2am} = \sqrt[3]{\frac{n_{2a} \times t_a \times F_{2aa}^3 + n_{2c} \times t_c \times F_{2ac}^3 + n_{2d} \times t_d \times F_{2ad}^3}{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}} \quad (\text{Eq.6})$$



$F_{2r}$  徑向力  
 $F_{2a}$  軸向力

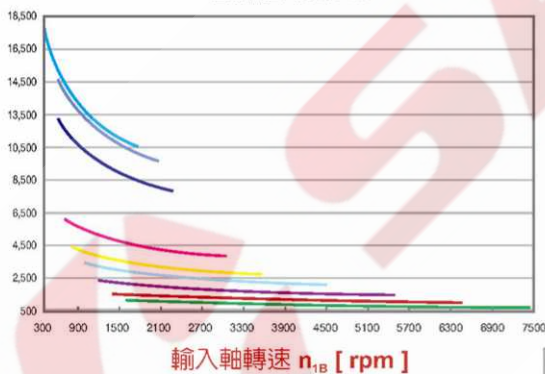
## 減速機輸出軸之容許徑向力及軸向力

減速機輸出軸所能承受之最大徑向力及軸向力，端視內部支撐軸承之設計。

減速機採用大尺寸的軸承及較大跨距的設計，其能承受更大的徑向及軸向負荷。

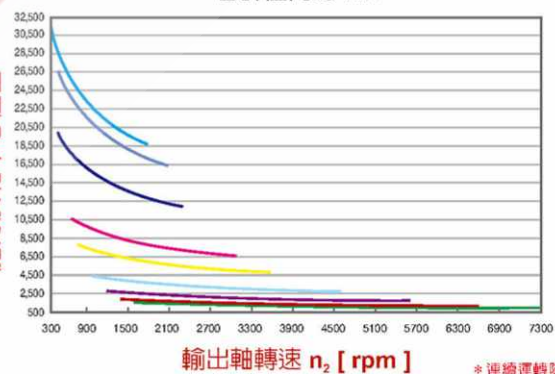
SFT 輸入軸  
容許徑向力  $F_{1rB}$

容許徑向力  $F_{1rB}$  [N]  
施力於軸中心位置



SFT 輸出軸  
容許徑向力  $F_{2rB}$

容許徑向力  $F_{2rB}$  [N]  
施力於軸中心位置

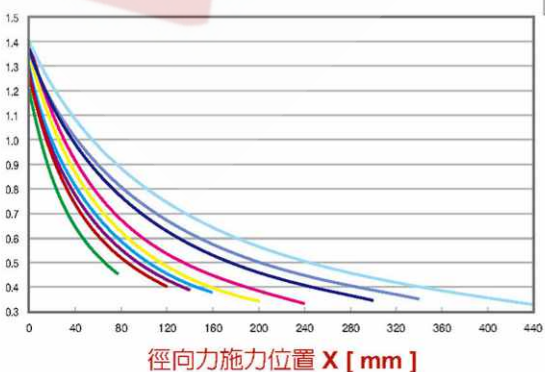


當徑向力  $F_{2r}$  施力於軸中心位置即  $X=1/2 \times L$  時，不同規格之減速機在不同輸出轉速運轉下，使用壽命為 30,000 hr 時，所能承受之容許徑向力  $F_{2rB}$ ，請參照左圖。

\* 連續運轉降低使用壽命二分之一。

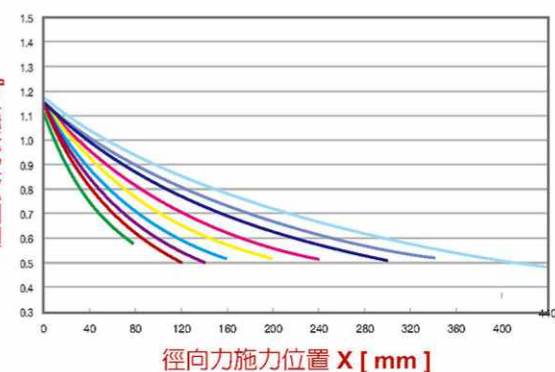
SFT 輸入軸

位置負荷係數  $K_b$



SFT 輸出軸

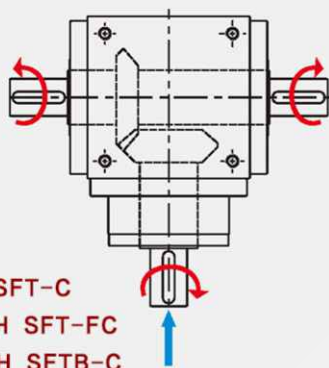
位置負荷係數  $K_b$



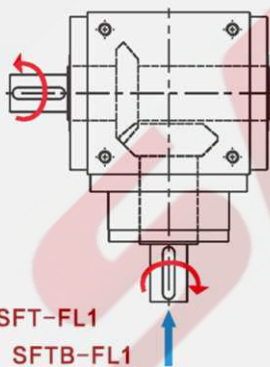
當徑向力  $F_{2r}$  施力不在軸中心位置時，越靠近減速機即  $X < 1/2 \times L$ ，所能承受之容許徑向力變大，越遠離減速機即  $X > 1/2 \times L$  時，所能承受之容許徑向力則變小，藉由左圖，依減速機規格及徑向力施力位置  $X$ ，查出位置負荷係數  $K_b$ 。

## 转向图

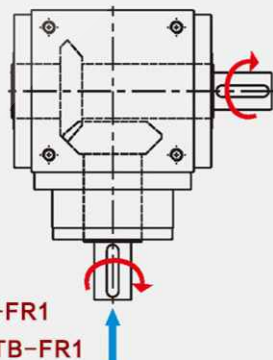
SFT-L SFT-H SFT-C  
SFT-FL SFT-FH SFT-FC  
SFTB-L SFTB-H SFTB-C  
SFTB-FL SFTB-FH SFTB-FC



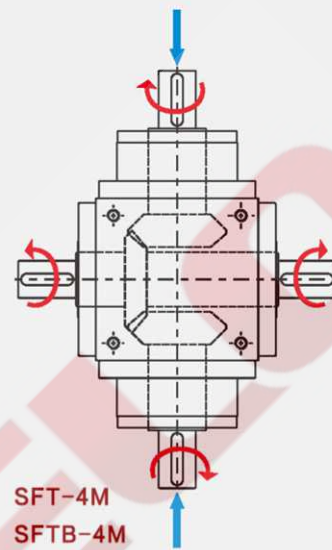
SFT-L1 SFT-FL1  
SFTB-L1 SFTB-FL1



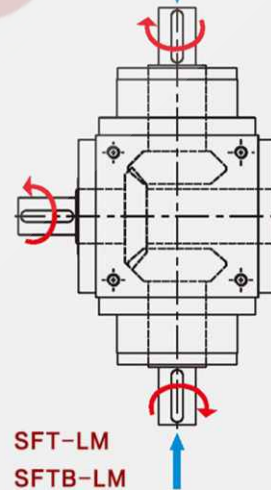
SFT-R1 SFT-FR1  
SFTB-R1 SFTB-FR1



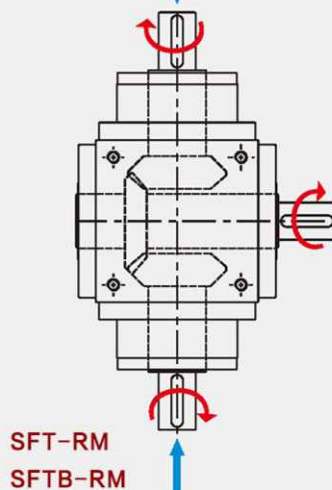
SFT-4M  
SFTB-4M



SFT-LM  
SFTB-LM



SFT-RM  
SFTB-RM





## 减速机的订购

**SFT065 / SFB065**

**L**

**001.5**

**S1**

减速機型號：

SFT065, SFT075, SFT090, SFT110, SFT140  
SFT170, SFT210, SFT240, SFT280  
SFTB065, SFTB075, SFTB090, SFTB110, SFTB140  
SFTB170, SFTB210, SFTB240, SFTB280

減速比：

單節：1, 1.5, 2, 3, 4, 5

減速機型式：

L / L1 / H / C / R1 / LM / RM / 4M

軸型式選擇：

S1: 平滑直軸  
S2: 附鍵直軸

選用範例：**SFT065-L-001.5-S1**  
**SFTB065-L-001.5-S1**

**SFT210 / SFTB210**

**FL1**

**200**

**S1**

**/ 馬達**

減速機型號：

SFT065, SFT075, SFT090, SFT110, SFT140  
SFT170, SFT210, SFT240, SFT280  
SFTB065, SFTB075, SFTB090, SFTB110, SFTB140  
SFTB170, SFTB210, SFTB240, SFTB280

減速比：

單節：1, 1.5, 2, 3, 4, 5  
雙節：7, 10, 15, 20, 25, 35, 50  
三節：75, 100, 125, 150, 200,  
250, 350, 500

馬達型號：

馬達製造商及型號

減速機型式：

FL / FLM1 / FLM2 / FL1 / FL1M1 / FL1M2 /  
FR1 / FR1M1 / FR1M2 / FH / FHM1 / FHM2 /  
FC / FCM1 / FCM2

軸型式選擇：

S1: 平滑直軸  
S2: 附鍵直軸

選用範例：**SFT210-FL1-200-S1 / SIEMENS 1FK6 032-6AK71**  
**SFTB210-FL1-200-S1 / SIEMENS 1FK6 032-6AK71**



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