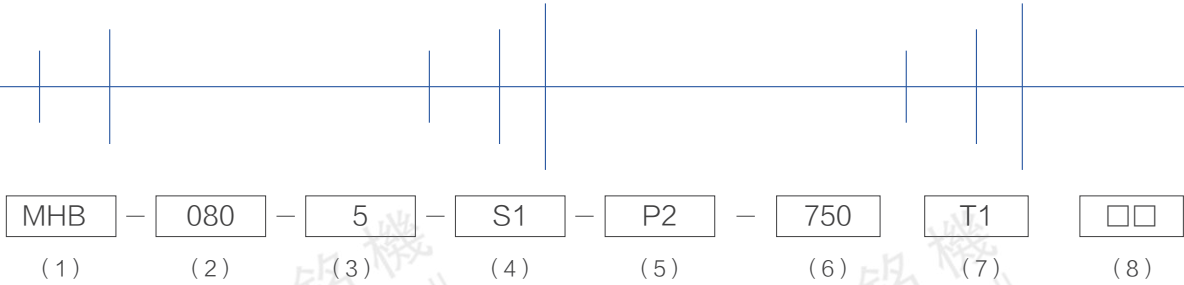
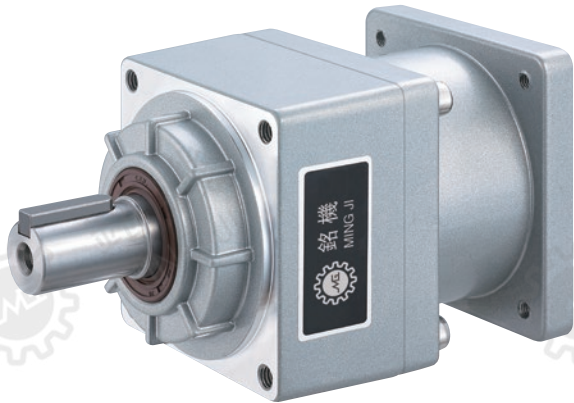


MHB系列  
MHB SERIES

201/202



|                                                |                                                                                                                           |                       |                                                    |                              |                              |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------|------------------------------|------------------------------|
| 减速机系列代号 Reducer series code                    | MHB: 高精密方形法兰输出                                                                                                            |                       | MHB: High-Precision Square Flange output           |                              |                              |
| (2) 减速机框架输出号<br>Reducer frame output number    | 040:外径Φ40mm或□40×40mm                                                                                                      |                       | 040: External diameter Φ40mm or□40×40mm            |                              |                              |
|                                                | 060:外径Φ60mm或□60×60mm                                                                                                      |                       | 060: External diameter Φ60mm or□60×60mm            |                              |                              |
|                                                | 080:外径Φ80mm或□80×80mm                                                                                                      |                       | 080: External diameter Φ80mm or□80×80mm            |                              |                              |
|                                                | 120:外径Φ120mm或□120×120mm                                                                                                   |                       | 120: External diameter Φ120mm or□120×120mm         |                              |                              |
|                                                | 160:外径Φ160mm或□160×160mm                                                                                                   |                       | 160: External diameter Φ160mm or□160×160mm         |                              |                              |
| (3) 减速比 Reduction ratio                        | 单级: 3, 4, 5, 8, 10                                                                                                        |                       | 1 stage: 3, 4, 5, 8, 10                            |                              |                              |
|                                                | 双级: 9, 12, 15, 16, 20, 25, 32, 40, 64                                                                                     |                       | 2 stage: 9, 12, 15, 16, 20, 25, 32, 40, 64         |                              |                              |
|                                                | 三级: 60, 80, 100, 120, 160, 200, 256, 320, 512                                                                             |                       | 3 stage: 60, 80, 100, 120, 160, 200, 256, 320, 512 |                              |                              |
| (4) 输出轴型式选择<br>Output shaft type               | S1: 键槽直轴                                                                                                                  |                       | S1: Output shaft with key                          |                              |                              |
|                                                | S2:平滑直轴                                                                                                                   |                       | S2: Smooth output shaft                            |                              |                              |
| (5) 精度 arcmin<br>输出轴负荷量为容许<br>输出扭矩的 5% 时的<br>值 | 机座号<br>Reducer frame number                                                                                               | 级数<br>Number of stage | P0 高精密<br>P0: Micro backlash                       | P0 高精密<br>P0: Micro backlash | P0 高精密<br>P0: Micro backlash |
|                                                | 40                                                                                                                        | 5                     | 10                                                 | 12                           | 12                           |
|                                                |                                                                                                                           | 8                     | 12                                                 | 15                           | 15                           |
|                                                |                                                                                                                           | 12                    | 15                                                 | 18                           | 18                           |
|                                                | 60, 80, 120, 160                                                                                                          | 3                     | 5                                                  | 8                            | 8                            |
|                                                |                                                                                                                           | 5                     | 8                                                  | 12                           | 12                           |
|                                                |                                                                                                                           | 8                     | 10                                                 | 15                           | 15                           |
| (6) 适配马达功率<br>Fit the motor power              | 50W, 100W, 200W, 400W, 750W, 1000W, 1500W, 2000W, 2500W, 3000W, 3500W, 4000W, 4500W, 5000W                                |                       |                                                    |                              |                              |
| (7) 伺服马达厂家名称<br>Servo motor manufacturer name  | 松下电器产业 (株), (株) 安川电机, 三菱电机 (株), 欧姆龙 (株), 富士电机 (株) ...<br>Panasonic, Yaskawa Electric, Mitsubishi Electric, Omrom, Fuji... |                       |                                                    |                              |                              |
| (8) 伺服马达型号<br>Servo motor model                | MSM, MSMA, SGMS, SGMSH, SGMSS, HC-RF, HC-RFS, HC-RP, R88M-U, R88M-W, GYS                                                  |                       |                                                    |                              |                              |

减速机性能资料 REDUCER PERFORMANCE DATA

以下为限扭矩机种  
52: 1/5 减速 (100W)  
52: 1/5 reduction (100W)  
78: 1/81 减速 (50W)  
78: 1/81 reduction (50W)  
98: 1/3 减速 (1500W), 1/45 减速 (200W), 1/81 减速 (100W)  
98: 1/3 reduction(1500W), 1/45 reduction(200W), 1/81 reduction(100W)  
125: 1/3 减速 (3500W), 1/25 减速 (750W)  
125: 1/3 reduction(3500W), 1/25 reduction(750W)

输入转速为 3000rpm 时 When input speed is 3000rpm

| 容量<br>Motor power (W) | 减速比<br>Reduction | 单级减速<br>1 stage reduction |     |      | 两级减速<br>2 stage reduction |      |      |      |      |     |
|-----------------------|------------------|---------------------------|-----|------|---------------------------|------|------|------|------|-----|
|                       | 1/3              | 1/5                       | 1/9 | 1/15 | 1/20                      | 1/25 | 1/35 | 1/45 | 1/81 |     |
| 50W                   |                  | 52                        | 52  | 52   | 52                        | 52   | 52   | 52   | 78   | 78  |
| 100W                  |                  | 52                        | 52  | 52   | 52                        | 52   | 52   | 78   | 78   | 98  |
| 200W                  |                  | 52                        | 52  | 78   | 78                        | 78   | 78   | 78   | 98   | 125 |
| 400W                  |                  | 52                        | 78  | 78   | 78                        | 78   | 78   | 98   | 125  | —   |
| 750W                  |                  | 78                        | 78  | 98   | 98                        | 98   | 98   | 125  | 125  | —   |
| 1000W                 |                  | 98                        | 98  | 125  | 125                       | 125  | 125  | —    | —    | —   |
| 1500W                 |                  | 98                        | 98  | 125  | 125                       | —    | —    | —    | —    | —   |
| 2000W                 |                  | 125                       | 125 | 125  | 125                       | —    | —    | —    | —    | —   |
| 2500W                 |                  | 125                       | 125 | 125  | —                         | —    | —    | —    | —    | —   |
| 3000W                 |                  | 125                       | 125 | 125  | —                         | —    | —    | —    | —    | —   |
| 3500W                 |                  | 125                       | 125 | —    | —                         | —    | —    | —    | —    | —   |
| 4000W                 |                  | 125                       | 125 | —    | —                         | —    | —    | —    | —    | —   |
| 4500W                 |                  | 125                       | —   | —    | —                         | —    | —    | —    | —    | —   |
| 5000W                 |                  | 125                       | —   | —    | —                         | —    | —    | —    | —    | —   |

注1) 全部为斜齿轮适用范围 Note 1) All corresponding to helical gear

输入转速为 2000rpm 时 When input speed is 2000rpm

| 容量<br>Motor power (W) | 减速比<br>Reduction | 单级减速<br>1 stage reduction |     |      | 两级减速<br>2 stage reduction |      |      |      |      |    |
|-----------------------|------------------|---------------------------|-----|------|---------------------------|------|------|------|------|----|
|                       | 1/3              | 1/5                       | 1/9 | 1/15 | 1/20                      | 1/25 | 1/35 | 1/45 | 1/81 |    |
| 50W                   |                  | 52                        | 52  | 52   | 52                        | 52   | 52   | 78   | 78   | 78 |
| 100W                  |                  | 52                        | 52  | 78   | 78                        | 78   | 78   | 78   | 98   | 98 |
| 200W                  |                  | 52                        | 78  | 78   | 78                        | 78   | 78   | 98   | 98   | —  |
| 400W                  |                  | 78                        | 78  | 98   | 98                        | 98   | 98   | —    | —    | —  |
| 750W                  |                  | 98                        | 98  | 125  | 125                       | 125  | 125  | —    | —    | —  |
| 1000W                 |                  | 98                        | 98  | 125  | 125                       | —    | —    | —    | —    | —  |
| 1500W                 |                  | 98                        | 125 | 125  | 125                       | —    | —    | —    | —    | —  |
| 2000W                 |                  | 125                       | 125 | 125  | —                         | —    | —    | —    | —    | —  |
| 2500W                 |                  | 125                       | 125 | —    | —                         | —    | —    | —    | —    | —  |
| 3000W                 |                  | 125                       | —   | —    | —                         | —    | —    | —    | —    | —  |
| 3500W                 |                  | 125                       | —   | —    | —                         | —    | —    | —    | —    | —  |

注1) 全部为斜齿轮适用范围 Note 1) All corresponding to helical gear

MHB 性能表 ( 输入转速为 3000rpm 时 ) MHB Performance Table (When input speed is 3000rpm)

| 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>(×10-4 kg·m <sup>2</sup> ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                    |                                                        |                                                                              |
| 1/3                       | 52              | MHB          | 3                         | -50               | 1000                                        | 0.255                                               | 0.784                                                                | 392                                             | 196                                            | 0.0575                                                                                                             | 3.43                                                   | 10.3                                                                         |
|                           | 52              | MHB          | 3                         | -100              | 1000                                        | 0.715                                               | 2.06                                                                 | 392                                             | 196                                            | 0.0575                                                                                                             | 3.43                                                   | 10.3                                                                         |
|                           | 52              | MHB          | 3                         | -200              | 1000                                        | 1.47                                                | 4.51                                                                 | 392                                             | 196                                            | 0.135                                                                                                              | 3.43                                                   | 10.3                                                                         |
|                           | 52              | MHB          | 3                         | -400              | 1000                                        | 3.43                                                | 10.3                                                                 | 392                                             | 196                                            | 0.145                                                                                                              | 3.43                                                   | 10.3                                                                         |
|                           | 78              | MHB          | 3                         | -750              | 1000                                        | 6.37                                                | 19.3                                                                 | 784                                             | 392                                            | 0.913                                                                                                              | 6.86                                                   | 20.6                                                                         |
|                           | 98              | MHB          | 3                         | -1000             | 1000                                        | 7.55                                                | 22.8                                                                 | 882                                             | 441                                            | 2.43                                                                                                               | 18.3                                                   | 54.9                                                                         |
|                           | 98              | MHB          | 3                         | -1500             | 1000                                        | 12.3                                                | 37.1                                                                 | 882                                             | 441                                            | 2.43                                                                                                               | 18.3                                                   | 54.9                                                                         |
|                           | 98              | MHB          | 3                         | -2000             | 1000                                        | 17.2                                                | 51.5                                                                 | 882                                             | 441                                            | 2.43                                                                                                               | 18.3                                                   | 54.9                                                                         |
|                           | 125             | MHB          | 3                         | -2500             | 1000                                        | 19.0                                                | 57.2                                                                 | 1370                                            | 686                                            | 5.55                                                                                                               | 44.1                                                   | 132                                                                          |
|                           | 125             | MHB          | 3                         | -3000             | 1000                                        | 23.7                                                | 71.2                                                                 | 1370                                            | 686                                            | 5.50                                                                                                               | 44.1                                                   | 132                                                                          |
|                           | 125             | MHB          | 3                         | -3500             | 1000                                        | 28.3                                                | 85.2                                                                 | 1370                                            | 686                                            | 5.50                                                                                                               | 44.1                                                   | 132                                                                          |
|                           | 125             | MHB          | 3                         | -4000             | 1000                                        | 33.1                                                | 99.0                                                                 | 1370                                            | 686                                            | 5.78                                                                                                               | 44.1                                                   | 132                                                                          |
|                           | 125             | MHB          | 3                         | -4500             | 1000                                        | 37.7                                                | 113                                                                  | 1370                                            | 686                                            | 5.78                                                                                                               | 44.1                                                   | 132                                                                          |
|                           | 125             | MHB          | 3                         | -5000             | 1000                                        | 42.9                                                | 128                                                                  | 1370                                            | 686                                            | 5.78                                                                                                               | 44.1                                                   | 132                                                                          |
| 1/5                       | 52              | MHB          | 5                         | -50               | 600                                         | 0.510                                               | 1.47                                                                 | 490                                             | 245                                            | 0.04                                                                                                               | 1.57                                                   | 4.70                                                                         |
|                           | 52              | MHB          | 5                         | -100              | 600                                         | 1.18                                                | 3.72                                                                 | 490                                             | 245                                            | 0.04                                                                                                               | 1.57                                                   | 4.70                                                                         |
|                           | 52              | MHB          | 5                         | -200              | 600                                         | 2.65                                                | 8.04                                                                 | 490                                             | 245                                            | 0.118                                                                                                              | 2.84                                                   | 8.53                                                                         |
|                           | 78              | MHB          | 5                         | -400              | 600                                         | 5.39                                                | 16.2                                                                 | 980                                             | 490                                            | 0.363                                                                                                              | 6.57                                                   | 19.7                                                                         |
|                           | 78              | MHB          | 5                         | -750              | 600                                         | 10.7                                                | 32.1                                                                 | 980                                             | 490                                            | 0.713                                                                                                              | 11.5                                                   | 34.3                                                                         |
|                           | 98              | MHB          | 5                         | -1000             | 600                                         | 13.4                                                | 40.5                                                                 | 1080                                            | 539                                            | 1.85                                                                                                               | 23.5                                                   | 70.6                                                                         |
|                           | 98              | MHB          | 5                         | -1500             | 600                                         | 21.5                                                | 64.4                                                                 | 1080                                            | 539                                            | 1.85                                                                                                               | 23.5                                                   | 70.6                                                                         |
|                           | 125             | MHB          | 5                         | -2000             | 600                                         | 23.8                                                | 71.5                                                                 | 1670                                            | 833                                            | 3.50                                                                                                               | 56.8                                                   | 171                                                                          |
|                           | 125             | MHB          | 5                         | -2500             | 600                                         | 31.8                                                | 95.5                                                                 | 1670                                            | 833                                            | 3.50                                                                                                               | 56.8                                                   | 171                                                                          |
|                           | 125             | MHB          | 5                         | -3000             | 600                                         | 39.6                                                | 119                                                                  | 1670                                            | 833                                            | 3.48                                                                                                               | 56.8                                                   | 171                                                                          |
|                           | 125             | MHB          | 5                         | -3500             | 600                                         | 47.2                                                | 141                                                                  | 1670                                            | 833                                            | 3.48                                                                                                               | 56.8                                                   | 171                                                                          |
|                           | 125             | MHB          | 5                         | -4000             | 600                                         | 55.3                                                | 166                                                                  | 1670                                            | 833                                            | 3.75                                                                                                               | 56.8                                                   | 171                                                                          |
| 1/9                       | 52              | MHB          | 9                         | -50               | 333                                         | 0.921                                               | 2.74                                                                 | 588                                             | 294                                            | 0.035                                                                                                              | 2.35                                                   | 7.25                                                                         |
|                           | 52              | MHB          | 9                         | -100              | 333                                         | 2.25                                                | 6.86                                                                 | 588                                             | 294                                            | 0.035                                                                                                              | 2.35                                                   | 7.25                                                                         |
|                           | 78              | MHB          | 9                         | -200              | 333                                         | 3.72                                                | 11.3                                                                 | 1180                                            | 588                                            | 0.275                                                                                                              | 9.70                                                   | 29.2                                                                         |
|                           | 78              | MHB          | 9                         | -400              | 333                                         | 9.51                                                | 28.5                                                                 | 1180                                            | 588                                            | 0.275                                                                                                              | 9.70                                                   | 29.2                                                                         |
|                           | 98              | MHB          | 9                         | -750              | 333                                         | 18.2                                                | 54.7                                                                 | 1470                                            | 735                                            | 0.65                                                                                                               | 18.2                                                   | 54.7                                                                         |
|                           | 125             | MHB          | 9                         | -1000             | 333                                         | 20.0                                                | 60.1                                                                 | 1960                                            | 980                                            | 2.81                                                                                                               | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -1500             | 333                                         | 34.3                                                | 103                                                                  | 1960                                            | 980                                            | 2.81                                                                                                               | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -2000             | 333                                         | 48.6                                                | 146                                                                  | 1960                                            | 980                                            | 2.81                                                                                                               | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -2500             | 333                                         | 60.8                                                | 182                                                                  | 1960                                            | 980                                            | 2.81                                                                                                               | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -3000             | 333                                         | 73.0                                                | 219                                                                  | 1960                                            | 980                                            | 2.77                                                                                                               | 73.5                                                   | 221                                                                          |
| 1/15                      | 52              | MHB          | 15                        | -50               | 200                                         | 1.67                                                | 5.00                                                                 | 784                                             | 392                                            | 0.035                                                                                                              | 4.02                                                   | 12.2                                                                         |
|                           | 52              | MHB          | 15                        | -100              | 200                                         | 3.72                                                | 11.4                                                                 | 784                                             | 392                                            | 0.035                                                                                                              | 4.02                                                   | 12.2                                                                         |
|                           | 78              | MHB          | 15                        | -200              | 200                                         | 6.27                                                | 18.8                                                                 | 1470                                            | 735                                            | 0.3                                                                                                                | 16.2                                                   | 48.6                                                                         |
|                           | 78              | MHB          | 15                        | -400              | 200                                         | 15.8                                                | 47.5                                                                 | 1470                                            | 735                                            | 0.3                                                                                                                | 16.2                                                   | 48.6                                                                         |
|                           | 98              | MHB          | 15                        | -750              | 200                                         | 30.4                                                | 91.2                                                                 | 1760                                            | 882                                            | 0.7                                                                                                                | 30.4                                                   | 91.2                                                                         |
|                           | 125             | MHB          | 15                        | -1000             | 200                                         | 33.3                                                | 100                                                                  | 2350                                            | 1180                                           | 1.95                                                                                                               | 91.4                                                   | 274                                                                          |
|                           | 125             | MHB          | 15                        | -1500             | 200                                         | 57.2                                                | 172                                                                  | 2350                                            | 1180                                           | 2.8                                                                                                                | 91.4                                                   | 274                                                                          |
|                           | 125             | MHB          | 15                        | -2000             | 200                                         | 81.0                                                | 243                                                                  | 2350                                            | 1180                                           | 2.8                                                                                                                | 91.4                                                   | 274                                                                          |

注 1) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。  
注 2) 最高输入转速为 5000rpm, 正常情况下请将转速控制在 3000rpm 以下。  
注 3) 容许径向负荷为输出轴中央部的数值。  
注 4) 全部为斜齿轮适用范围。

Note 1) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.  
Note 2) The max. input speed is 5000rpm, Usually set to 3000rpm or less.  
Note 3) The permissible radial load is indicated on the center of the output shaft.  
Note 4) All values are within the range corresponding to helical gear.

MHB 性能表 ( 输入转速为 3000rpm 时 ) MHB Performance Table (When input speed is 3000rpm)

| 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>(×10-4 kg·m <sup>2</sup> ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                    |                                                        |                                                                              |
| 1/20                      | 52              | MHB          | 20                        | -50               | 150                                         | 2.21                                                | 6.63                                                                 | 804                                             | 402                                            | 0.034                                                                                                              | 5.0                                                    | 15.0                                                                         |
|                           | 52              | MHB          | 20                        | -100              | 150                                         | 5.0                                                 | 15.0                                                                 | 804                                             | 402                                            | 0.034                                                                                                              | 5.0                                                    | 15.0                                                                         |
|                           | 78              | MHB          | 20                        | -200              | 150                                         | 8.69                                                | 26.1                                                                 | 1570                                            | 785                                            | 0.294                                                                                                              | 21.1                                                   | 63.3                                                                         |
|                           | 78              | MHB          | 20                        | -400              | 150                                         | 21.1                                                | 63.3                                                                 | 1570                                            | 785                                            | 0.294                                                                                                              | 21.1                                                   | 63.3                                                                         |
|                           | 98              | MHB          | 20                        | -750              | 150                                         | 40.6                                                | 122                                                                  | 1910                                            | 955                                            | 0.69                                                                                                               | 40.6                                                   | 122                                                                          |
| 1/25                      | 52              | MHB          | 25                        | -50               | 120                                         | 2.74                                                | 8.33                                                                 | 882                                             | 441                                            | 0.0325                                                                                                             | 4.02                                                   | 12.2                                                                         |
|                           | 52              | MHB          | 25                        | -100              | 120                                         | 6.27                                                | 19.0                                                                 | 882                                             | 441                                            | 0.0325                                                                                                             | 6.27                                                   | 19.0                                                                         |
|                           | 78              | MHB          | 25                        | -200              | 120                                         | 11.1                                                | 33.3                                                                 | 1670                                            | 833                                            | 0.288                                                                                                              | 21.7                                                   | 64.9                                                                         |
|                           | 78              | MHB          | 25                        | -400              | 120                                         | 26.4                                                | 79.2                                                                 | 1670                                            | 833                                            | 0.288                                                                                                              | 26.4                                                   | 79.2                                                                         |
|                           | 98              | MHB          | 25                        | -750              | 120                                         | 50.7                                                | 152                                                                  | 2060                                            | 1030                                           | 0.68                                                                                                               | 50.7                                                   | 152                                                                          |
| 1/35                      | 125             | MHB          | 25                        | -1000             | 120                                         | 55.7                                                | 167                                                                  | 2650                                            | 1320                                           | 1.88                                                                                                               | 65.4                                                   | 196                                                                          |
|                           | 52              | MHB          | 35                        | -50               | 85                                          | 3.84                                                | 11.5                                                                 | 882                                             | 441                                            | 0.03                                                                                                               | 3.84                                                   | 11.5                                                                         |
|                           | 78              | MHB          | 35                        | -100              | 85                                          | 7.24                                                | 21.7                                                                 | 1670                                            | 833                                            | 0.065                                                                                                              | 13.9                                                   | 41.7                                                                         |
|                           | 78              | MHB          | 35                        | -200              | 85                                          | 15.5                                                | 46.6                                                                 | 1670                                            | 833                                            | 0.262                                                                                                              | 15.5                                                   | 46.6                                                                         |
|                           | 98              | MHB          | 35                        | -400              | 85                                          | 37.0                                                | 111                                                                  | 2060                                            | 1030                                           | 0.269                                                                                                              | 37.0                                                   | 111                                                                          |
| 1/45                      | 125             | MHB          | 35                        | -750              | 85                                          | 71.0                                                | 213                                                                  | 3430                                            | 1715                                           | 0.473                                                                                                              | 71.0                                                   | 213                                                                          |
|                           | 78              | MHB          | 45                        | -50               | 66                                          | 3.86                                                | 11.6                                                                 | 1670                                            | 833                                            | 0.0285                                                                                                             | 9.50                                                   | 28.6                                                                         |
|                           | 78              | MHB          | 45                        | -100              | 66                                          | 9.31                                                | 28.0                                                                 | 1670                                            | 833                                            | 0.0285                                                                                                             | 9.50                                                   | 28.6                                                                         |
|                           | 98              | MHB          | 45                        | -200              | 66                                          | 21.1                                                | 63.5                                                                 | 2060                                            | 1030                                           | 0.0256                                                                                                             | 28.3                                                   | 85.2                                                                         |
|                           | 125             | MHB          | 45                        | -400              | 66                                          | 47.5                                                | 142.5                                                                | 3520                                            | 1760                                           | 0.245                                                                                                              | 57.0                                                   | 171                                                                          |
| 1/81                      | 125             | MHB          | 45                        | -750              | 66                                          | 91.3                                                | 274                                                                  | 3520                                            | 1760                                           | 1.77                                                                                                               | 91.3                                                   | 274                                                                          |
|                           | 78              | MHB          | 81                        | -50               | 37                                          | 7.02                                                | 20.8                                                                 | 1670                                            | 833                                            | 0.027                                                                                                              | 9.70                                                   | 29.2                                                                         |
|                           | 98              | MHB          | 81                        | -100              | 37                                          | 14.0                                                | 42.0                                                                 | 2060                                            | 1030                                           | 0.03                                                                                                               | 17.8                                                   | 53.5                                                                         |
|                           | 125             | MHB          | 81                        | -200              | 37                                          | 36.1                                                | 108.3                                                                | 3530                                            | 1765                                           | 0.24                                                                                                               | 43.3                                                   | 129.9                                                                        |

注 1) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。  
注 2) 最高输入转速为 5000rpm, 正常情况下请将转速控制在 3000rpm 以下。  
注 3) 容许径向负荷为输出轴中央部的数值。  
注 4) 全部为斜齿轮适用范围。

Note 1) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.  
Note 2) The max. input speed is 5000rpm, Usually set to 3000rpm or less.  
Note 3) The permissible radial load is indicated on the center of the output shaft.  
Note 4) All values are within the range corresponding to helical gear.

关于润滑油 About lubricant

润滑: 润滑脂 Lubrication: grease

更换: 不可 Replacement: Not available

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 性能表 ( 输入转速为 2000rpm 时 ) MHB Performance Table (When input speed is 2000rpm)

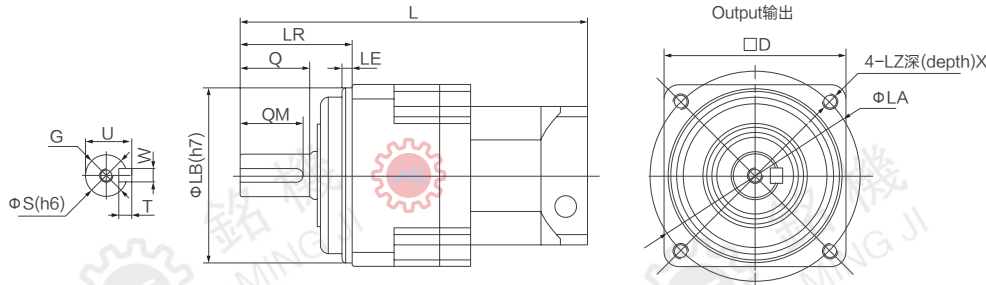
| 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 1/3                       | 52              | MHB          | 3                         | -50               | 666                                         | 0.477                                               | 1.43                                                                 | 450                                             | 225                                            | 0.0575                                                                                                                                  | 3.43                                                   | 10.3                                                                         |
|                           | 52              | MHB          | 3                         | -100              | 666                                         | 1.05                                                | 3.15                                                                 | 450                                             | 225                                            | 0.135                                                                                                                                   | 3.43                                                   | 10.3                                                                         |
|                           | 52              | MHB          | 3                         | -200              | 666                                         | 2.48                                                | 7.45                                                                 | 450                                             | 225                                            | 0.145                                                                                                                                   | 3.43                                                   | 10.3                                                                         |
|                           | 78              | MHB          | 3                         | -400              | 666                                         | 5.01                                                | 15.0                                                                 | 900                                             | 450                                            | 0.913                                                                                                                                   | 6.86                                                   | 20.6                                                                         |
|                           | 98              | MHB          | 3                         | -750              | 666                                         | 8.73                                                | 26.2                                                                 | 1010                                            | 505                                            | 2.43                                                                                                                                    | 18.3                                                   | 54.9                                                                         |
|                           | 98              | MHB          | 3                         | -1000             | 666                                         | 12.3                                                | 37.1                                                                 | 1010                                            | 505                                            | 2.43                                                                                                                                    | 18.3                                                   | 54.9                                                                         |
|                           | 98              | MHB          | 3                         | -1500             | 666                                         | 18.3                                                | 54.9                                                                 | 1010                                            | 505                                            | 2.43                                                                                                                                    | 18.3                                                   | 54.9                                                                         |
|                           | 125             | MHB          | 3                         | -2000             | 666                                         | 23.7                                                | 71.2                                                                 | 1570                                            | 785                                            | 5.50                                                                                                                                    | 44.1                                                   | 132                                                                          |
|                           | 125             | MHB          | 3                         | -2500             | 666                                         | 30.8                                                | 92.5                                                                 | 1570                                            | 785                                            | 5.50                                                                                                                                    | 44.1                                                   | 132                                                                          |
|                           | 125             | MHB          | 3                         | -3000             | 666                                         | 37.7                                                | 113                                                                  | 1570                                            | 785                                            | 5.50                                                                                                                                    | 44.1                                                   | 132                                                                          |
| 1/5                       | 52              | MHB          | 5                         | -50               | 400                                         | 0.795                                               | 2.39                                                                 | 560                                             | 280                                            | 0.04                                                                                                                                    | 1.57                                                   | 4.70                                                                         |
|                           | 52              | MHB          | 5                         | -100              | 400                                         | 1.57                                                | 4.70                                                                 | 560                                             | 280                                            | 0.118                                                                                                                                   | 1.57                                                   | 4.70                                                                         |
|                           | 78              | MHB          | 5                         | -200              | 400                                         | 3.82                                                | 11.5                                                                 | 1120                                            | 560                                            | 0.363                                                                                                                                   | 6.57                                                   | 19.7                                                                         |
|                           | 78              | MHB          | 5                         | -400              | 400                                         | 8.35                                                | 25.1                                                                 | 1120                                            | 560                                            | 0.713                                                                                                                                   | 11.5                                                   | 34.3                                                                         |
|                           | 98              | MHB          | 5                         | -750              | 400                                         | 15.5                                                | 46.5                                                                 | 1230                                            | 615                                            | 1.85                                                                                                                                    | 23.5                                                   | 70.6                                                                         |
|                           | 98              | MHB          | 5                         | -1000             | 400                                         | 21.5                                                | 64.4                                                                 | 1230                                            | 615                                            | 1.85                                                                                                                                    | 23.5                                                   | 70.6                                                                         |
|                           | 125             | MHB          | 5                         | -1500             | 400                                         | 27.8                                                | 83.5                                                                 | 1900                                            | 950                                            | 3.50                                                                                                                                    | 56.8                                                   | 171                                                                          |
|                           | 125             | MHB          | 5                         | -2000             | 400                                         | 39.6                                                | 119                                                                  | 1900                                            | 950                                            | 3.48                                                                                                                                    | 56.8                                                   | 171                                                                          |
|                           | 125             | MHB          | 5                         | -2500             | 400                                         | 51.4                                                | 154                                                                  | 1900                                            | 950                                            | 3.75                                                                                                                                    | 56.8                                                   | 171                                                                          |
|                           | 125             | MHB          | 5                         | -3000             | 400                                         | 63.2                                                | 190                                                                  | 1900                                            | 950                                            | 4.02                                                                                                                                    | 56.8                                                   | 171                                                                          |
| 1/9                       | 52              | MHB          | 9                         | -50               | 222                                         | 1.57                                                | 4.72                                                                 | 670                                             | 335                                            | 0.035                                                                                                                                   | 2.35                                                   | 7.25                                                                         |
|                           | 78              | MHB          | 9                         | -100              | 222                                         | 2.35                                                | 7.04                                                                 | 1340                                            | 670                                            | 0.275                                                                                                                                   | 9.70                                                   | 29.2                                                                         |
|                           | 78              | MHB          | 9                         | -200              | 222                                         | 6.64                                                | 19.9                                                                 | 1340                                            | 670                                            | 0.275                                                                                                                                   | 9.70                                                   | 29.2                                                                         |
|                           | 98              | MHB          | 9                         | -400              | 222                                         | 14.0                                                | 41.9                                                                 | 1680                                            | 840                                            | 0.65                                                                                                                                    | 18.2                                                   | 54.7                                                                         |
|                           | 125             | MHB          | 9                         | -750              | 222                                         | 23.6                                                | 70.9                                                                 | 2240                                            | 1120                                           | 2.81                                                                                                                                    | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -1000             | 222                                         | 34.3                                                | 103                                                                  | 2240                                            | 1120                                           | 2.81                                                                                                                                    | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -1500             | 222                                         | 53.7                                                | 161                                                                  | 2240                                            | 1120                                           | 2.81                                                                                                                                    | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -2000             | 222                                         | 73.0                                                | 219                                                                  | 2240                                            | 1120                                           | 2.77                                                                                                                                    | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -2500             | 222                                         | 92.5                                                | 278                                                                  | 2240                                            | 1120                                           | 2.77                                                                                                                                    | 73.5                                                   | 221                                                                          |
|                           | 125             | MHB          | 9                         | -3000             | 222                                         | 112                                                 | 336                                                                  | 2240                                            | 1120                                           | 2.77                                                                                                                                    | 73.5                                                   | 221                                                                          |
| 1/15                      | 52              | MHB          | 15                        | -50               | 133                                         | 2.62                                                | 7.87                                                                 | 882                                             | 441                                            | 0.035                                                                                                                                   | 4.02                                                   | 12.2                                                                         |
|                           | 78              | MHB          | 15                        | -100              | 133                                         | 3.91                                                | 11.7                                                                 | 1670                                            | 833                                            | 0.3                                                                                                                                     | 16.2                                                   | 48.6                                                                         |
|                           | 78              | MHB          | 15                        | -200              | 133                                         | 11.1                                                | 33.2                                                                 | 1670                                            | 833                                            | 0.3                                                                                                                                     | 16.2                                                   | 48.6                                                                         |
|                           | 98              | MHB          | 15                        | -400              | 133                                         | 23.3                                                | 69.8                                                                 | 2020                                            | 1010                                           | 0.7                                                                                                                                     | 30.4                                                   | 91.2                                                                         |
|                           | 125             | MHB          | 15                        | -750              | 133                                         | 39.4                                                | 118                                                                  | 2650                                            | 1320                                           | 2.8                                                                                                                                     | 91.4                                                   | 274                                                                          |
|                           | 125             | MHB          | 15                        | -1000             | 133                                         | 57.2                                                | 172                                                                  | 2650                                            | 1320                                           | 2.8                                                                                                                                     | 91.4                                                   | 274                                                                          |
|                           | 125             | MHB          | 15                        | -1500             | 133                                         | 91.3                                                | 274                                                                  | 2650                                            | 1320                                           | 2.8                                                                                                                                     | 91.4                                                   | 274                                                                          |
|                           | 125             | MHB          | 15                        | -2000             | 133                                         | 117                                                 | 351                                                                  | 2650                                            | 1320                                           | 2.8                                                                                                                                     | 91.4                                                   | 274                                                                          |
| 1/20                      | 52              | MHB          | 20                        | -50               | 100                                         | 3.50                                                | 10.5                                                                 | 910                                             | 455                                            | 0.034                                                                                                                                   | 5.0                                                    | 15.0                                                                         |
|                           | 78              | MHB          | 20                        | -100              | 100                                         | 5.73                                                | 17.2                                                                 | 1790                                            | 895                                            | 0.294                                                                                                                                   | 21.1                                                   | 63.3                                                                         |
|                           | 78              | MHB          | 20                        | -200              | 100                                         | 14.8                                                | 44.4                                                                 | 1790                                            | 895                                            | 0.294                                                                                                                                   | 21.1                                                   | 63.3                                                                         |
|                           | 98              | MHB          | 20                        | -400              | 100                                         | 31.0                                                | 93.1                                                                 | 2180                                            | 1090                                           | 0.69                                                                                                                                    | 40.6                                                   | 122                                                                          |
| 1/25                      | 52              | MHB          | 25                        | -50               | 80.0                                        | 4.37                                                | 13.1                                                                 | 882                                             | 441                                            | 0.0325                                                                                                                                  | 6.27                                                   | 19.0                                                                         |
|                           | 78              | MHB          | 25                        | -100              | 80.0                                        | 7.16                                                | 21.5                                                                 | 1670                                            | 833                                            | 0.288                                                                                                                                   | 21.7                                                   | 64.9                                                                         |
|                           | 78              | MHB          | 25                        | -200              | 80.0                                        | 18.5                                                | 55.4                                                                 | 1670                                            | 833                                            | 0.288                                                                                                                                   | 21.7                                                   | 64.9                                                                         |
|                           | 98              | MHB          | 25                        | -400              | 80.0                                        | 38.8                                                | 116                                                                  | 2060                                            | 1030                                           | 0.68                                                                                                                                    | 50.7                                                   | 152                                                                          |
|                           | 125             | MHB          | 25                        | -750              | 80.0                                        | 65.4                                                | 196                                                                  | 2650                                            | 1320                                           | 1.88                                                                                                                                    | 65.4                                                   | 196                                                                          |
| 1/35                      | 78              | MHB          | 35                        | -50               | 57                                          | 4.43                                                | 13.3                                                                 | 1900                                            | 950                                            | 0.262                                                                                                                                   | 15.5                                                   | 46.6                                                                         |
|                           | 78              | MHB          | 35                        | -100              | 57                                          | 12.7                                                | 38.1                                                                 | 1900                                            | 950                                            | 0.262                                                                                                                                   | 15.5                                                   | 46.6                                                                         |
|                           | 98              | MHB          | 35                        | -200              | 57                                          | 22.0                                                | 66.0                                                                 | 2340                                            | 1170                                           | 0.269                                                                                                                                   | 37.0                                                   | 111                                                                          |
| 1/45                      | 78              | MHB          | 45                        | -50               | 44.4                                        | 5.80                                                | 17.4                                                                 | 1670                                            | 833                                            | 0.0285                                                                                                                                  | 9.50                                                   | 28.6                                                                         |
|                           | 98              | MHB          | 45                        | -100              | 44.4                                        | 14.0                                                | 42.1                                                                 | 2060                                            | 1030                                           | 0.0285                                                                                                                                  | 28.3                                                   | 85.2                                                                         |
|                           | 98              | MHB          | 45                        | -200              | 44.4                                        | 28.3                                                | 85.2                                                                 | 2060                                            | 1030                                           | 0.0285                                                                                                                                  | 28.3                                                   | 85.2                                                                         |
|                           | 125             | MHB          | 45                        | -400              | 44.4                                        | 42.1                                                | 127                                                                  | 2060                                            | 1030                                           | 0.0285                                                                                                                                  | 28.3                                                   | 85.2                                                                         |
| 1/81                      | 78              | MHB          | 81                        | -50               | 24.6                                        | 9.70                                                | 29.2                                                                 | 1670                                            | 833                                            | 0.027                                                                                                                                   | 9.70                                                   | 29.2                                                                         |
|                           | 98              | MHB          | 81                        | -100              | 24.6                                        | 17.8                                                | 53.5                                                                 | 2060                                            | 1030                                           | 0.03                                                                                                                                    | 17.8                                                   | 53.5                                                                         |

注 1) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩. 请将其作为参考值。  
注 2) 容许径向负荷为输出轴中央部的数值。  
注 3) 全部为斜齿轮适用范围。

Note 1) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.  
Note 2) The permissible radial load is indicated on the center of the output shaft.  
Note 3) All values are within the range corresponding to helical gear.

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 同芯轴型减速机尺寸表 Dimensional Table For MHB Concentric Shaft Reducer



| 型号 Type         |              |                           |                   | 全长 Total lenght L                        |                                                    |                                                        | 输出轴 Output shaft |    |    |                      |                       |        |    | 法兰 Flange |     |    |     |     |    |
|-----------------|--------------|---------------------------|-------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------------|------------------|----|----|----------------------|-----------------------|--------|----|-----------|-----|----|-----|-----|----|
| 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor | 松下电器<br>生产<br>Panasonic<br>-made<br>MSMA | 安川电机<br>生产<br>Yaskawa<br>-made<br>SGMASH<br>/SGMSH | 三菱电机<br>生产<br>Mitsubishi<br>-made<br>HC-KFS<br>/HC-RFS | LR               | S  | Q  | QM                   | G                     | W×U    | T  | D         | LB  | LE | LA  | LZ  | X  |
| 52              | MHB          | 3,5,9                     | 50                | 99.5                                     | 99.5                                               | 99.5                                                   | 12               | 20 | 18 | M4<br>(深Depth)<br>12 | 4×13.5                | 4      | 52 | 50        | 3   | 60 | M5  | 12  |    |
| 52              | MHB          | 15,20,25,35               | 50                | 110                                      | 110                                                | 110                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 52              | MHB          | 3,5,9                     | 100               | 99.5                                     | 99.5                                               | 99.5                                                   |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 52              | MHB          | 15,20,25                  | 100               | 110                                      | 110                                                | 110                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 52              | MHB          | 3,5                       | 200               | 104.5                                    | 104.5                                              | 104.5                                                  |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 52              | MHB          | 3                         | 400               | 104.5                                    | 104.5                                              | 104.5                                                  |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 78              | MHB          | 45,81                     | 50                | 142                                      | 142                                                | 142                                                    | 50               | 19 | 30 | 26                   | M5<br>(深Depth)<br>15  | 6×21.5 | 6  | 80        | 70  | 3  | 90  | M5  | 20 |
| 78              | MHB          | 35                        | 100               | 150                                      | 150                                                | 150                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 78              | MHB          | 45                        | 100               | 142                                      | 142                                                | 142                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 78              | MHB          | 9                         | 200               | 139.5                                    | 139.5                                              | 139.5                                                  |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 78              | MHB          | 15,20,25,35               | 200               | 150                                      | 150                                                | 150                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 78              | MHB          | 5,9                       | 400               | 139.5                                    | 139.5                                              | 139.5                                                  |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 78              | MHB          | 15,20,25                  | 400               | 150                                      | 150                                                | 150                                                    | 61               | 24 | 40 | 35                   | M6<br>(深Depth)<br>20  | 8×27   | 7  | 100       | 90  | 5  | 115 | M8  | 20 |
| 78              | MHB          | 3,5                       | 750               | 143.5                                    | 143.5                                              | 143.5                                                  |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 98              | MHB          | 81                        | 100               | 158                                      | 158                                                | 158                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 98              | MHB          | 45                        | 200               | 165                                      | 165                                                | 165                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 98              | MHB          | 35                        | 400               | 165                                      | 165                                                | 165                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 98              | MHB          | 9                         | 750               | 158.5                                    | 158.5                                              | 158.5                                                  |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 98              | MHB          | 15,20,25                  | 750               | 171                                      | 171                                                | 171                                                    | 75               | 32 | 55 | 52                   | M10<br>(深Depth)<br>20 | 10×35  | 8  | 125       | 110 | 5  | 135 | M10 | 20 |
| 98              | MHB          | 3,5                       | 1000              | 177                                      | 177                                                | 177                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 98              | MHB          | 3,5                       | 1500              | 177                                      | 177                                                | 177                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 98              | MHB          | 3                         | 2000              | 177                                      | 177                                                | 177                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 81                        | 200               | 210                                      | 210                                                | 210                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 45                        | 400               | 210                                      | 210                                                | 210                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 35                        | 750               | 210                                      | 210                                                | 210                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 45                        | 750               | 235                                      | 235                                                | 235                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 9                         | 1000              | 215                                      | 215                                                | 215                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 15,25                     | 1000              | 235                                      | 235                                                | 235                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 9                         | 1500              | 215                                      | 215                                                | 215                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 15                        | 1500              | 235                                      | 235                                                | 235                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 5,9                       | 2000              | 235                                      | 235                                                | 235                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 15                        | 2000              | 235                                      | 235                                                | 235                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 3,5,9                     | 2500              | 215                                      | —                                                  | —                                                      |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 3,5,9                     | 3000              | 215                                      | 225                                                | —                                                      |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 3,5                       | 3500              | 215                                      | —                                                  | 225                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 3,5                       | 4000              | 225                                      | 225                                                | —                                                      |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 3                         | 4500              | 225                                      | —                                                  | —                                                      |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |
| 125             | MHB          | 3                         | 5000              | 225                                      | 225                                                | 225                                                    |                  |    |    |                      |                       |        |    |           |     |    |     |     |    |

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 50W 尺寸图与性能表 MHB 50W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 50W                                  | 1/3                       | 52              | MHB          | 3                         | 50                | 1000                                        | 0.255                                               | 0.784                                                                | 392                                             | 196                                            | 0.0575                                                                                                                                  | 3.43                                                   | 10.3                                                                         |
|                                      | 1/5                       | 52              | MHB          | 5                         | 50                | 600                                         | 0.510                                               | 1.47                                                                 | 490                                             | 245                                            | 0.0400                                                                                                                                  | 1.57                                                   | 4.70                                                                         |
|                                      | 1/9                       | 52              | MHB          | 9                         | 50                | 333                                         | 0.921                                               | 2.74                                                                 | 588                                             | 294                                            | 0.0350                                                                                                                                  | 2.35                                                   | 7.25                                                                         |
|                                      | 1/15                      | 52              | MHB          | 15                        | 50                | 200                                         | 1.67                                                | 5.00                                                                 | 784                                             | 392                                            | 0.0350                                                                                                                                  | 4.02                                                   | 12.2                                                                         |
|                                      | 1/20                      | 52              | MHB          | 20                        | 50                | 150                                         | 2.21                                                | 6.63                                                                 | 804                                             | 402                                            | 0.0340                                                                                                                                  | 5.00                                                   | 15.0                                                                         |
|                                      | 1/25                      | 52              | MHB          | 25                        | 50                | 120                                         | 2.74                                                | 8.33                                                                 | 882                                             | 441                                            | 0.0325                                                                                                                                  | 4.02                                                   | 12.2                                                                         |
|                                      | 1/35                      | 52              | MHB          | 35                        | 50                | 85                                          | 3.84                                                | 11.5                                                                 | 882                                             | 441                                            | 0.0300                                                                                                                                  | 3.84                                                   | 11.5                                                                         |
|                                      | 1/45                      | 78              | MHB          | 45                        | 50                | 66                                          | 3.86                                                | 11.6                                                                 | 1670                                            | 833                                            | 0.0285                                                                                                                                  | 9.50                                                   | 28.6                                                                         |
|                                      | 1/81                      | 78              | MHB          | 81                        | 50                | 37                                          | 7.02                                                | 20.8                                                                 | 1670                                            | 833                                            | 0.0270                                                                                                                                  | 9.70                                                   | 29.2                                                                         |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

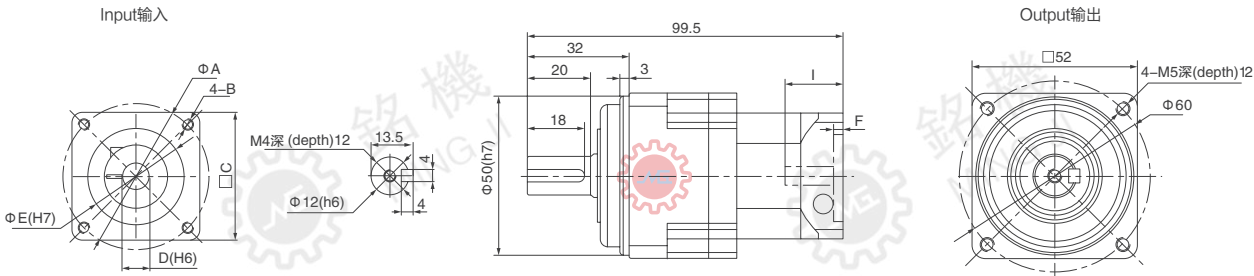
Note 6) Rotation of the output shaft is in the same direction as motor.

减速机性能资料 REDUCER PERFORMANCE DATA

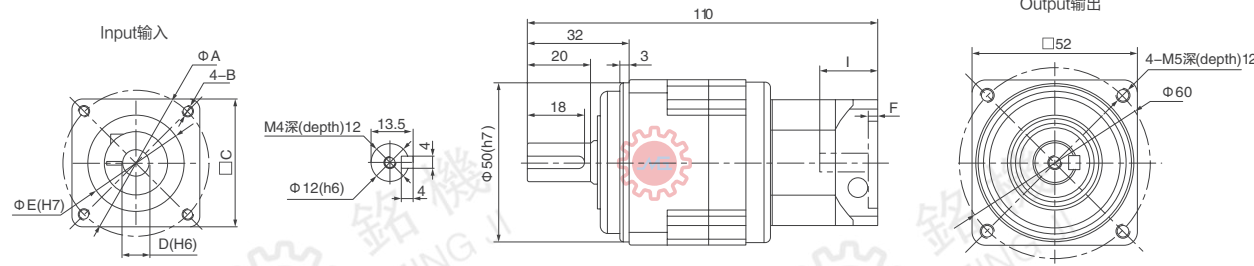
MHB 50W 尺寸图与性能表 MHB 50W Dimensional Drawing & Performance Table

尺寸图 Dimensional Drawing

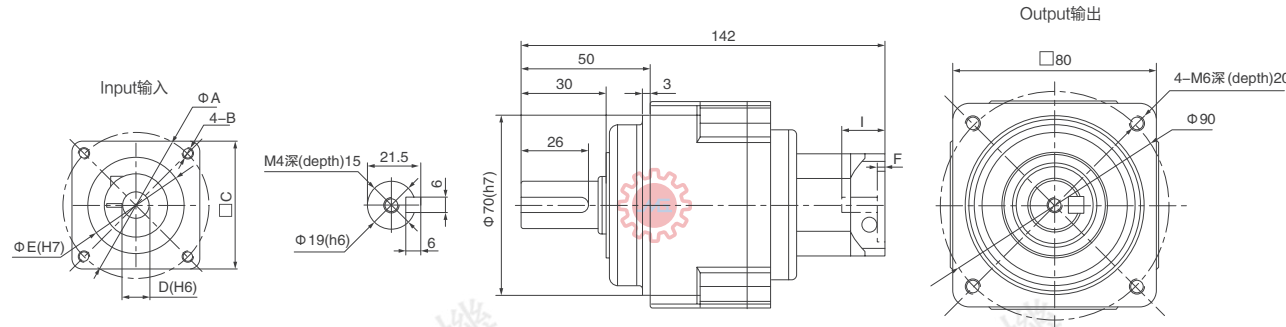
52MHB3 · 5 · 9-50



52MHB15 · 20 · 25 · 32-50



78MHB45 · 81-50



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A  | B             | C  | D | E  | F | I  |
|----------------|----|---------------|----|---|----|---|----|
| Type 1         | 45 | M3深(depth)6.5 | 38 | 8 | 30 | 4 | 26 |
| Type 2         | 46 | M4深(depth)6.5 | 40 | 8 | 30 | 4 | 26 |
| Type 3         | 46 | M4深(depth)6.5 | 40 | 8 | 30 | 4 | 26 |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

MHB 100W 尺寸图与性能表 MHB 100W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                           |                                                        |                                                                              |
| 100W                                 | 1/3                       | 52              | MHB          | 3                         | 100               | 1000                                        | 0.715                                               | 2.06                                                                 | 392                                             | 196                                            | 0.0575                                                                                                                    | 3.43                                                   | 10.3                                                                         |
|                                      | 1/5                       | 52              | MHB          | 5                         | 100               | 600                                         | 1.18                                                | 3.72                                                                 | 490                                             | 245                                            | 0.0400                                                                                                                    | 1.57                                                   | 4.70                                                                         |
|                                      | 1/9                       | 52              | MHB          | 9                         | 100               | 333                                         | 2.25                                                | 6.86                                                                 | 588                                             | 294                                            | 0.0350                                                                                                                    | 2.35                                                   | 7.25                                                                         |
|                                      | 1/15                      | 52              | MHB          | 15                        | 100               | 200                                         | 3.72                                                | 11.4                                                                 | 784                                             | 392                                            | 0.0350                                                                                                                    | 4.02                                                   | 12.2                                                                         |
|                                      | 1/20                      | 52              | MHB          | 20                        | 100               | 150                                         | 5.00                                                | 15.0                                                                 | 804                                             | 402                                            | 0.0340                                                                                                                    | 5.00                                                   | 15.0                                                                         |
|                                      | 1/25                      | 52              | MHB          | 25                        | 100               | 120                                         | 6.27                                                | 19.0                                                                 | 882                                             | 441                                            | 0.0325                                                                                                                    | 6.27                                                   | 19.0                                                                         |
|                                      | 1/35                      | 52              | MHB          | 35                        | 100               | 85                                          | 7.24                                                | 21.7                                                                 | 1670                                            | 833                                            | 0.0650                                                                                                                    | 13.9                                                   | 41.7                                                                         |
|                                      | 1/45                      | 78              | MHB          | 45                        | 100               | 66                                          | 9.31                                                | 28.0                                                                 | 1670                                            | 833                                            | 0.0285                                                                                                                    | 9.50                                                   | 28.6                                                                         |
|                                      | 1/81                      | 78              | MHB          | 81                        | 100               | 37                                          | 14.0                                                | 42.0                                                                 | 2060                                            | 1030                                           | 0.0300                                                                                                                    | 17.8                                                   | 53.5                                                                         |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

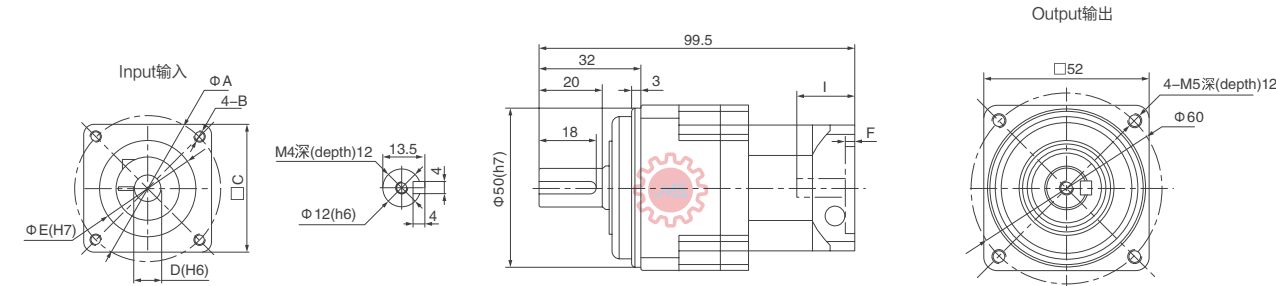
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

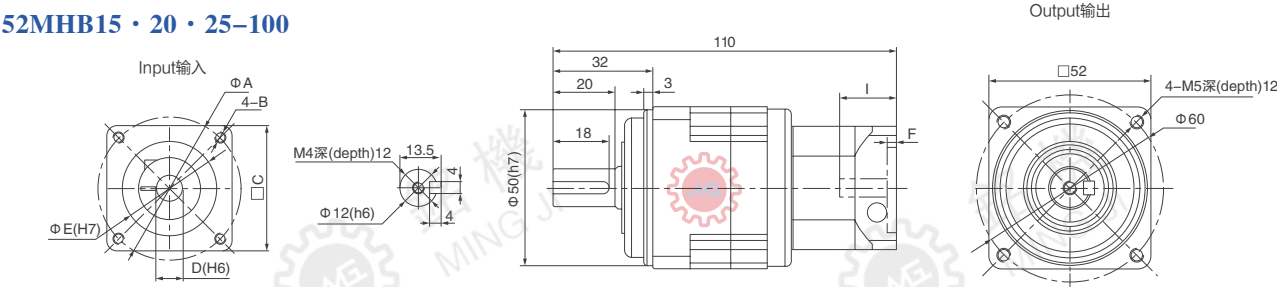
52MHB3 · 5 · 9-100



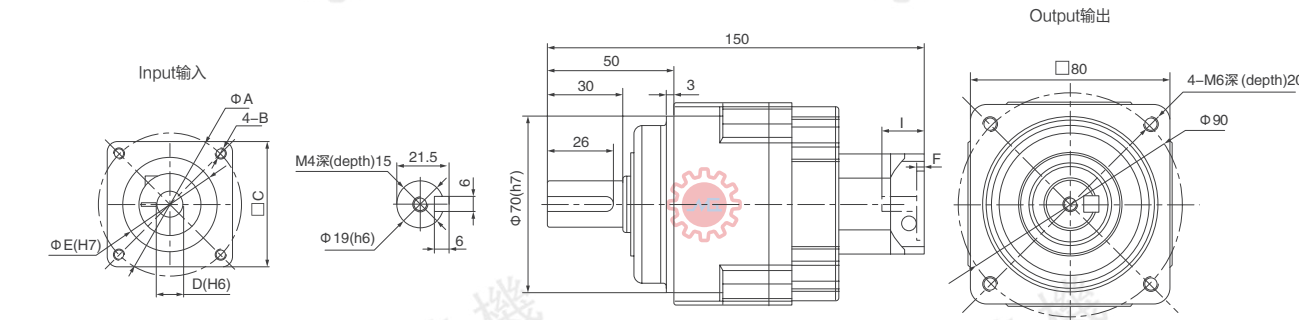
MHB 100W 尺寸图与性能表 MHB 100W Dimensional Drawing & Performance Table

尺寸图 Dimensional Drawing

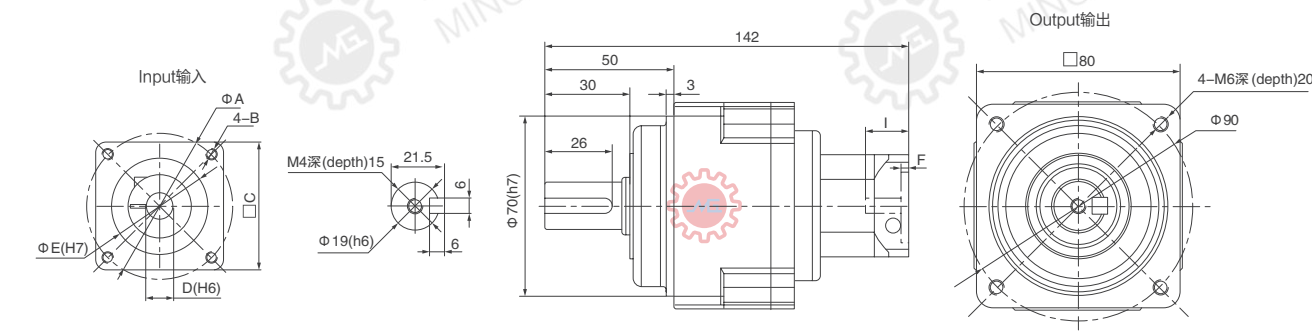
52MHB15 · 20 · 25-100



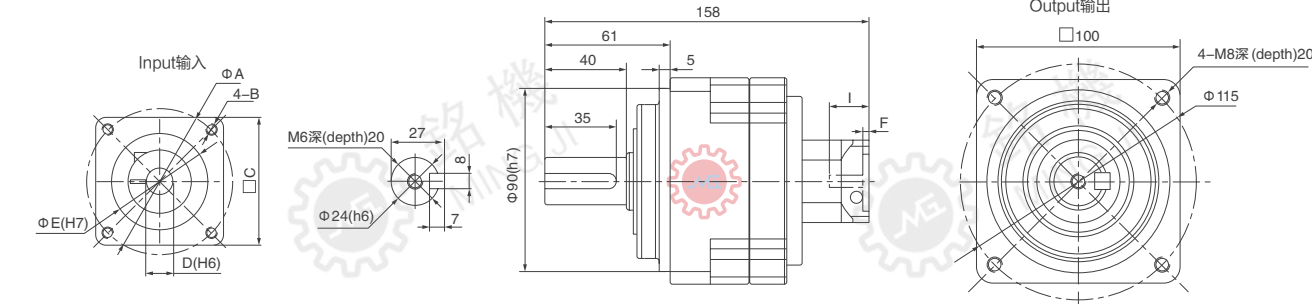
78MHB35-100



78MHB45-100



98MHB81-100



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A  | B             | C  | D | E  | F | I  |
|----------------|----|---------------|----|---|----|---|----|
| Type 1         | 45 | M3深(depth)6.5 | 38 | 8 | 30 | 4 | 26 |
| Type 2         | 46 | M4深(depth)6.5 | 40 | 8 | 30 | 4 | 26 |
| Type 3         | 46 | M4深(depth)6.5 | 40 | 8 | 30 | 4 | 26 |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 200W 尺寸图与性能表 MHB 200W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{ kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                          |                                                        |                                                                              |
| 200W                                 | 1/3                       | 52              | MHB          | 3                         | 200               | 1000                                        | 1.47                                                | 4.51                                                                 | 392                                             | 196                                            | 0.135                                                                                                                                    | 3.43                                                   | 10.3                                                                         |
|                                      | 1/5                       | 52              | MHB          | 5                         | 200               | 600                                         | 2.65                                                | 8.04                                                                 | 490                                             | 245                                            | 0.118                                                                                                                                    | 2.84                                                   | 8.53                                                                         |
|                                      | 1/9                       | 52              | MHB          | 9                         | 200               | 333                                         | 3.72                                                | 11.3                                                                 | 1180                                            | 588                                            | 0.275                                                                                                                                    | 9.70                                                   | 29.2                                                                         |
|                                      | 1/15                      | 52              | MHB          | 15                        | 200               | 200                                         | 6.27                                                | 18.8                                                                 | 1470                                            | 735                                            | 0.300                                                                                                                                    | 16.2                                                   | 48.6                                                                         |
|                                      | 1/20                      | 52              | MHB          | 20                        | 200               | 150                                         | 8.69                                                | 26.1                                                                 | 1570                                            | 785                                            | 0.294                                                                                                                                    | 21.1                                                   | 63.3                                                                         |
|                                      | 1/25                      | 52              | MHB          | 25                        | 200               | 120                                         | 11.1                                                | 33.3                                                                 | 1670                                            | 833                                            | 0.288                                                                                                                                    | 21.7                                                   | 64.9                                                                         |
|                                      | 1/35                      | 52              | MHB          | 35                        | 200               | 85                                          | 15.5                                                | 46.6                                                                 | 1670                                            | 833                                            | 0.262                                                                                                                                    | 15.5                                                   | 46.6                                                                         |
|                                      | 1/45                      | 78              | MHB          | 45                        | 200               | 66                                          | 21.1                                                | 63.5                                                                 | 2060                                            | 1030                                           | 0.0256                                                                                                                                   | 28.3                                                   | 85.2                                                                         |
|                                      | 1/81                      | 78              | MHB          | 81                        | 200               | 37                                          | 36.1                                                | 108.3                                                                | 3530                                            | 1765                                           | 0.240                                                                                                                                    | 43.3                                                   | 129.9                                                                        |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

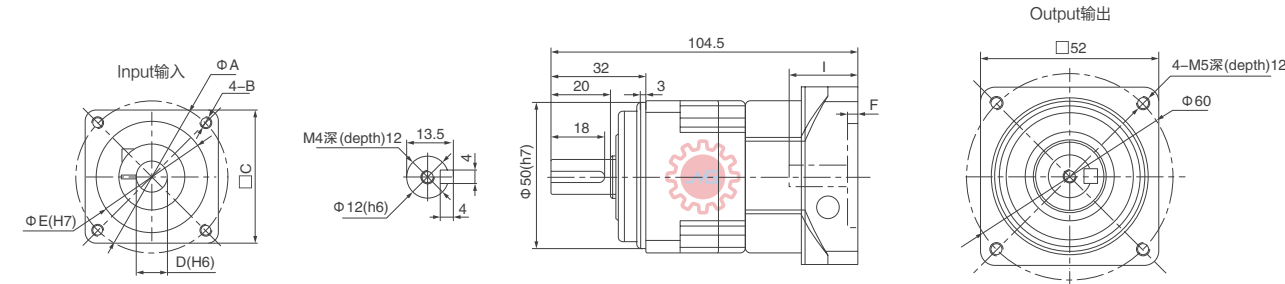
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

52MHB3 · 5~200

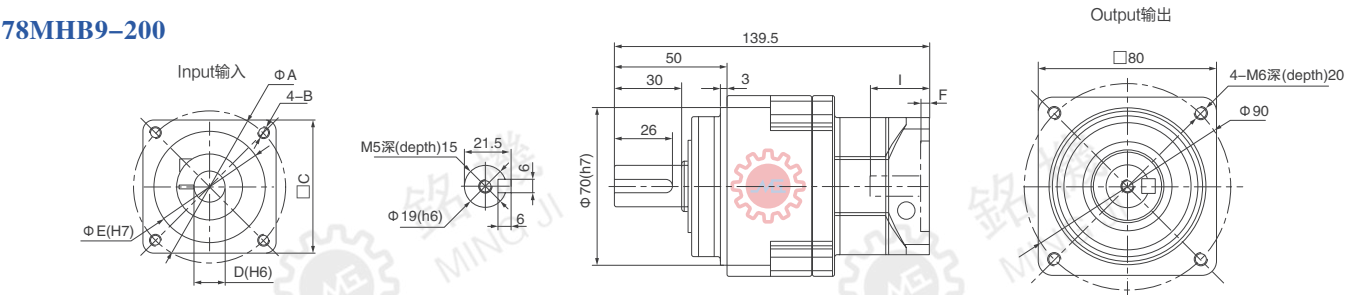


减速机性能资料 REDUCER PERFORMANCE DATA

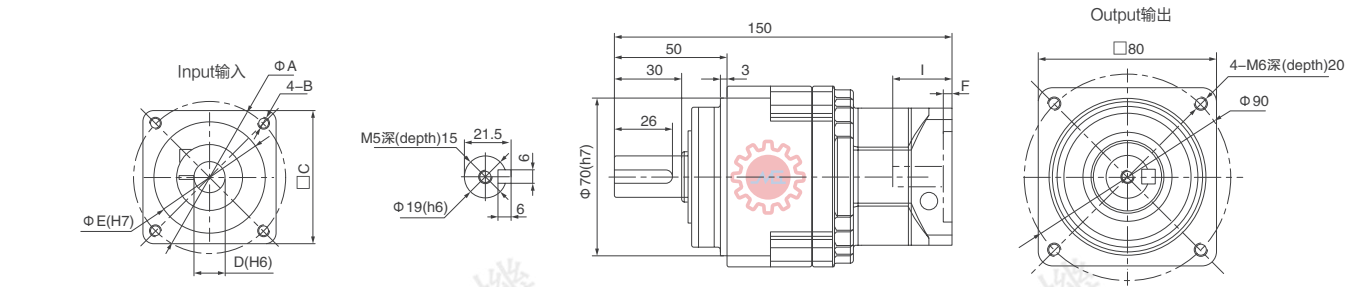
MHB 200W 尺寸图与性能表 MHB 200W Dimensional Drawing & Performance Table

尺寸图 Dimensional Drawing

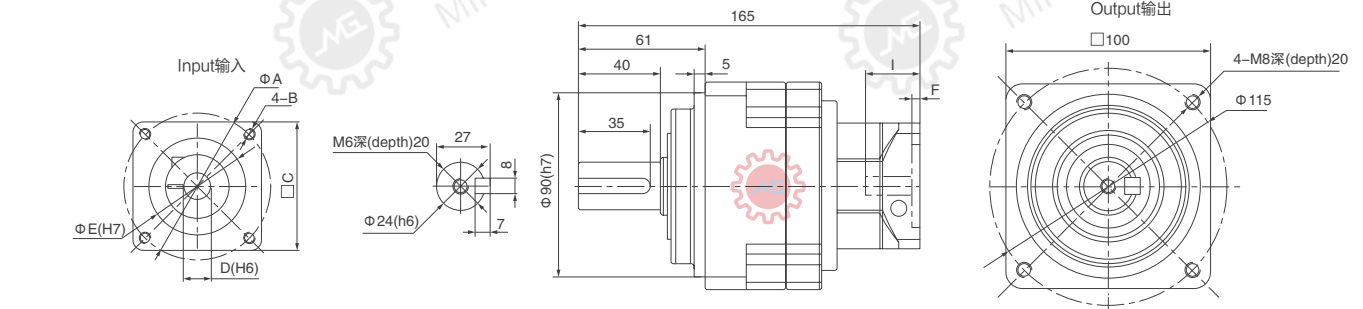
78MHB9~200



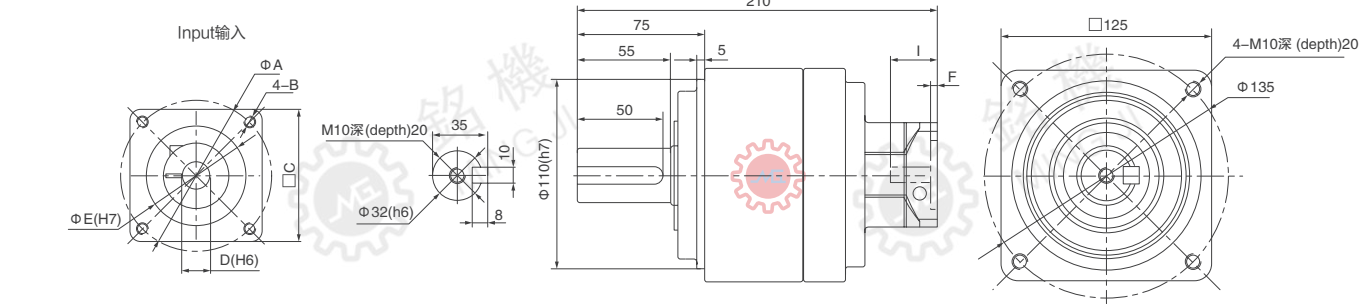
78MHB15 · 20 · 25 · 35~200



98MHB45~200



125MHB81~200



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A  | B            | C  | D  | E  | F | I  |
|----------------|----|--------------|----|----|----|---|----|
| Type 1         | 70 | M4深(depth)10 | 60 | 11 | 50 | 4 | 30 |
| Type 2         | 70 | M5深(depth)10 | 60 | 14 | 50 | 4 | 30 |
| Type 3         | 70 | M5深(depth)10 | 60 | 14 | 50 | 4 | 30 |

Type 1~3 的详细情况请参考样册

Please refer to the sample book for details of Type 1~3

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 400W 尺寸图与性能表 MHB 400W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 400W                                 | 1/3                       | 52              | MHB          | 3                         | 400               | 1000                                        | 3.43                                                | 10.3                                                                 | 392                                             | 196                                            | 0.145                                                                                                                                   | 3.43                                                   | 10.3                                                                         |
|                                      | 1/5                       | 78              | MHB          | 5                         | 400               | 600                                         | 5.39                                                | 16.2                                                                 | 980                                             | 490                                            | 0.363                                                                                                                                   | 6.57                                                   | 19.7                                                                         |
|                                      | 1/9                       | 78              | MHB          | 9                         | 400               | 333                                         | 9.51                                                | 28.5                                                                 | 1180                                            | 588                                            | 0.275                                                                                                                                   | 9.70                                                   | 29.2                                                                         |
|                                      | 1/15                      | 78              | MHB          | 15                        | 400               | 200                                         | 15.8                                                | 47.5                                                                 | 1470                                            | 735                                            | 0.300                                                                                                                                   | 16.2                                                   | 48.6                                                                         |
|                                      | 1/20                      | 78              | MHB          | 20                        | 400               | 150                                         | 21.1                                                | 63.3                                                                 | 1570                                            | 785                                            | 0.294                                                                                                                                   | 21.1                                                   | 63.3                                                                         |
|                                      | 1/25                      | 78              | MHB          | 25                        | 400               | 120                                         | 26.4                                                | 79.2                                                                 | 1670                                            | 833                                            | 0.288                                                                                                                                   | 26.4                                                   | 79.2                                                                         |
|                                      | 1/35                      | 98              | MHB          | 35                        | 400               | 85                                          | 37.0                                                | 111                                                                  | 2060                                            | 1030                                           | 0.269                                                                                                                                   | 37.0                                                   | 111                                                                          |
|                                      | 1/45                      | 125             | MHB          | 45                        | 400               | 66                                          | 47.5                                                | 142.5                                                                | 3520                                            | 1760                                           | 0.245                                                                                                                                   | 57                                                     | 171                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

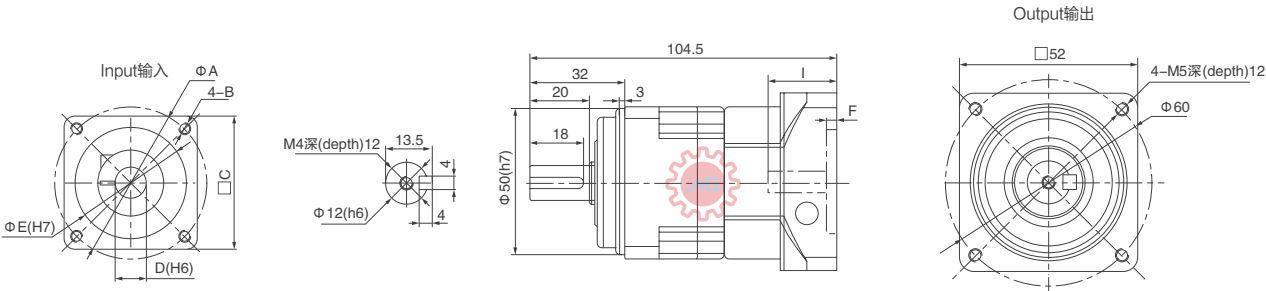
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

52MHB3-400

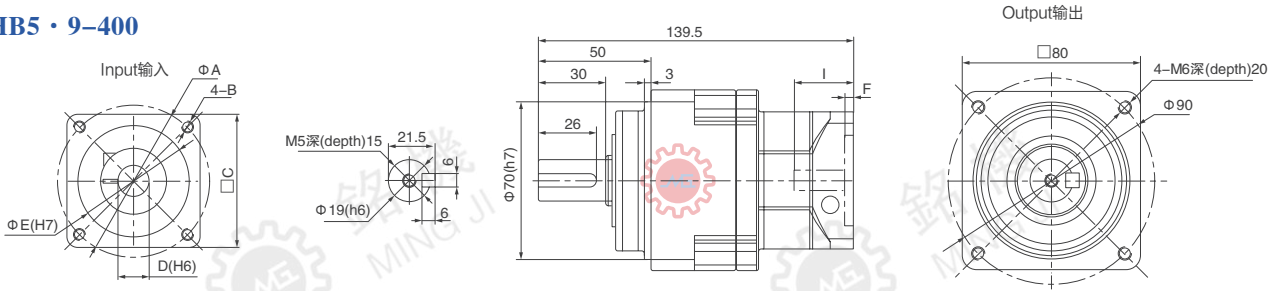


减速机性能资料 REDUCER PERFORMANCE DATA

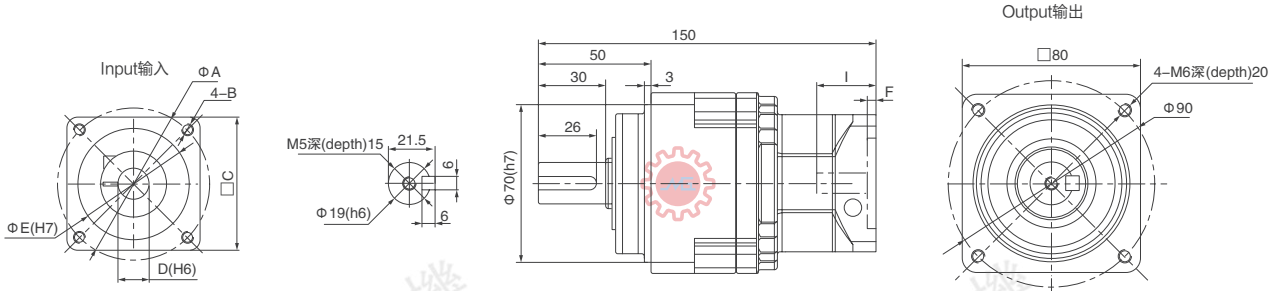
MHB 400W 尺寸图与性能表 MHB 400W Dimensional Drawing & Performance Table

尺寸图 Dimensional Drawing

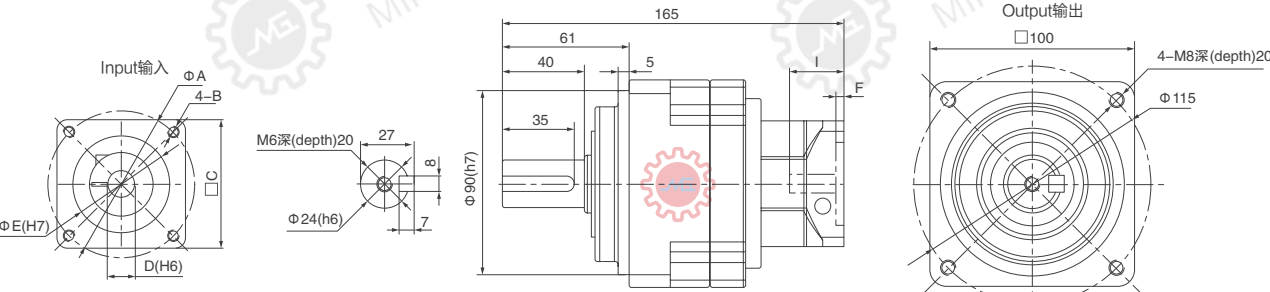
78MHB5 · 9-400



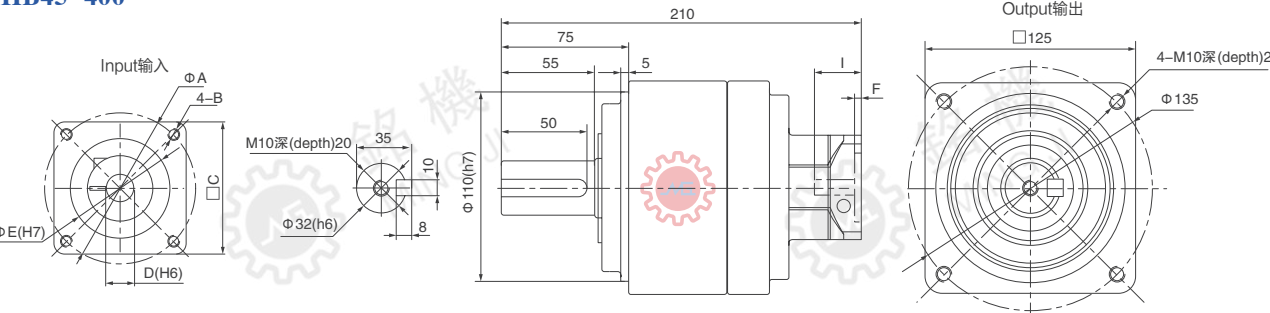
78MHB15 · 20 · 25-400



98MHB35-400



125MHB45-400



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A  | B            | C  | D  | E  | F | I  |
|----------------|----|--------------|----|----|----|---|----|
| Type 1         | 70 | M4深(depth)10 | 60 | 14 | 50 | 4 | 30 |
| Type 2         | 70 | M5深(depth)10 | 60 | 14 | 50 | 4 | 30 |
| Type 3         | 70 | M5深(depth)10 | 60 | 14 | 50 | 4 | 30 |

Type 1~3 的详细情况请参考样册

Please refer to the sample book for details of Type 1~3



减速机性能资料 REDUCER PERFORMANCE DATA

MHB 750W 尺寸图与性能表 MHB 750W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{ kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                          |                                                        |                                                                              |
| 1000W                                | 1/3                       | 98              | MHB          | 3                         | 1000              | 1000                                        | 7.55                                                | 22.8                                                                 | 882                                             | 441                                            | 2.43                                                                                                                                     | 18.3                                                   | 54.9                                                                         |
|                                      | 1/5                       | 98              | MHB          | 5                         | 1000              | 600                                         | 13.4                                                | 40.5                                                                 | 1080                                            | 539                                            | 1.85                                                                                                                                     | 23.5                                                   | 70.6                                                                         |
|                                      | 1/9                       | 125             | MHB          | 9                         | 1000              | 333                                         | 20.2                                                | 60.1                                                                 | 1960                                            | 980                                            | 2.81                                                                                                                                     | 73.5                                                   | 221                                                                          |
|                                      | 1/15                      | 125             | MHB          | 15                        | 1000              | 200                                         | 33.3                                                | 100                                                                  | 2350                                            | 1180                                           | 1.95                                                                                                                                     | 91.4                                                   | 274                                                                          |
|                                      | 1/25                      | 125             | MHB          | 25                        | 1000              | 120                                         | 55.7                                                | 167                                                                  | 2650                                            | 1320                                           | 1.88                                                                                                                                     | 65.4                                                   | 196                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

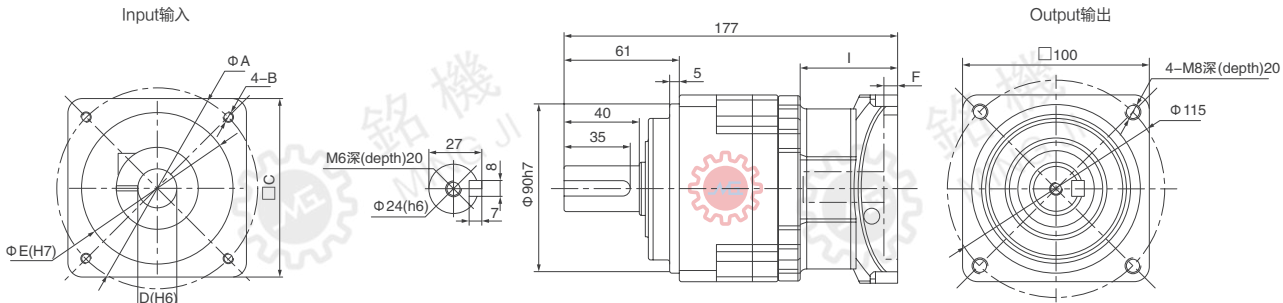
Note 6) Rotation of the output shaft is in the same direction as motor.

减速机性能资料 REDUCER PERFORMANCE DATA

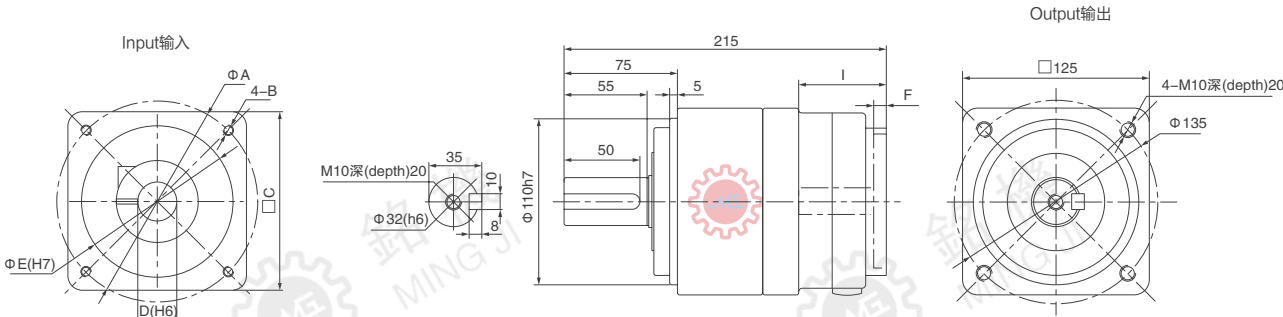
MHB 1000W 尺寸图与性能表 MHB 1000W Dimensional Drawing & Performance Table

尺寸图 Dimensional Drawing

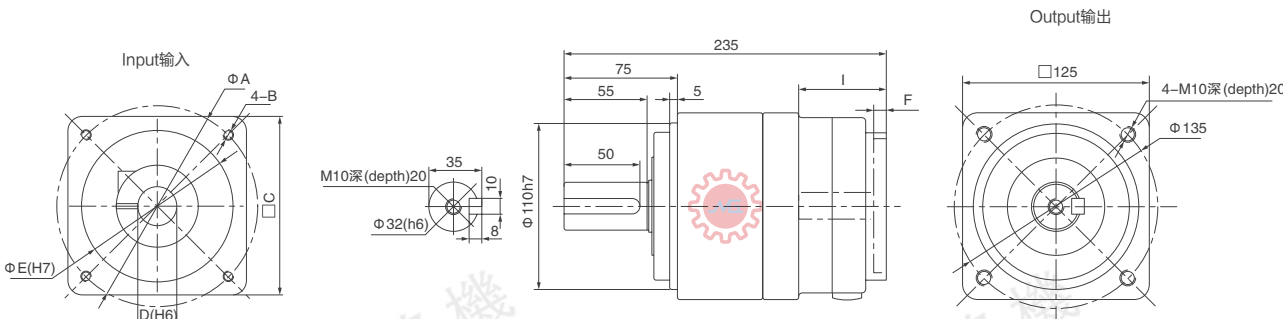
98MHB3 · 5-1000



125MHB9-1000



125MHB15 · 25-1000



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E  | F | I  |
|----------------|-----|--------------|-----|----|----|---|----|
| Type 1         | 100 | M6深(depth)15 | 90  | 19 | 80 | 4 | 55 |
| Type 2         | 115 | M6深(depth)15 | 100 | 24 | 95 | 4 | 55 |
| Type 3         | 115 | M6深(depth)15 | 100 | 24 | 95 | 4 | 55 |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3



减速机性能资料 REDUCER PERFORMANCE DATA

MHB 2000W 尺寸图与性能表 MHB 2000W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 2000W                                | 1/3                       | 98              | MHB          | 3                         | 2000              | 1000                                        | 17.2                                                | 51.5                                                                 | 882                                             | 441                                            | 2.43                                                                                                                                    | 18.3                                                   | 54.9                                                                         |
|                                      | 1/5                       | 125             | MHB          | 5                         | 2000              | 600                                         | 23.8                                                | 71.5                                                                 | 1670                                            | 833                                            | 3.50                                                                                                                                    | 56.8                                                   | 171                                                                          |
|                                      | 1/9                       | 125             | MHB          | 9                         | 2000              | 333                                         | 48.6                                                | 146                                                                  | 1960                                            | 980                                            | 2.81                                                                                                                                    | 73.5                                                   | 221                                                                          |
|                                      | 1/15                      | 125             | MHB          | 15                        | 2000              | 200                                         | 81.0                                                | 243                                                                  | 2350                                            | 1180                                           | 2.80                                                                                                                                    | 91.4                                                   | 274                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

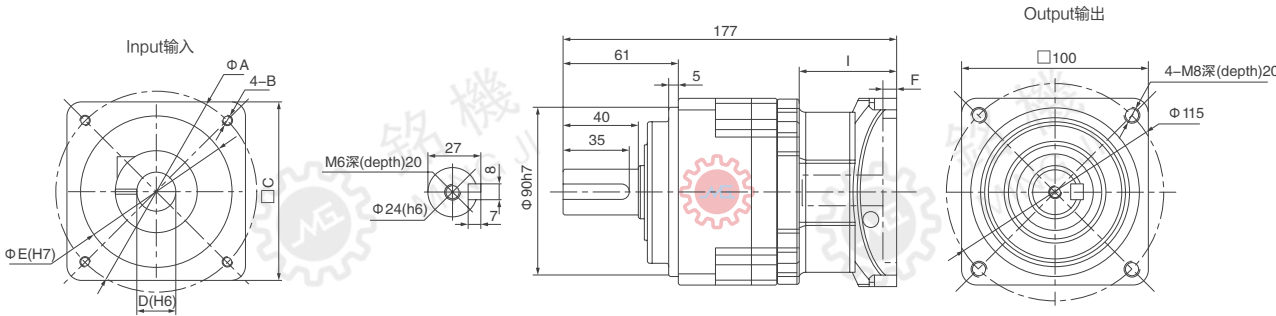
Note 6) Rotation of the output shaft is in the same direction as motor.

减速机性能资料 REDUCER PERFORMANCE DATA

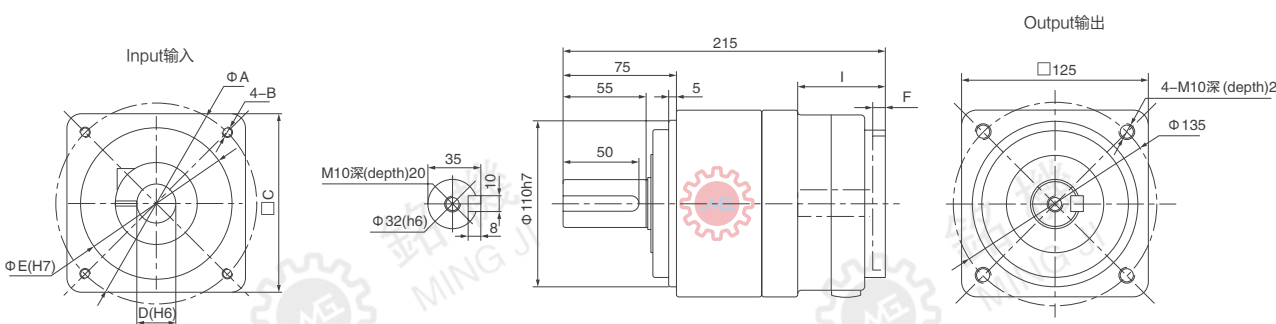
MHB 2000W 尺寸图与性能表 MHB 2000W Dimensional Drawing & Performance Table

尺寸图 Dimensional Drawing

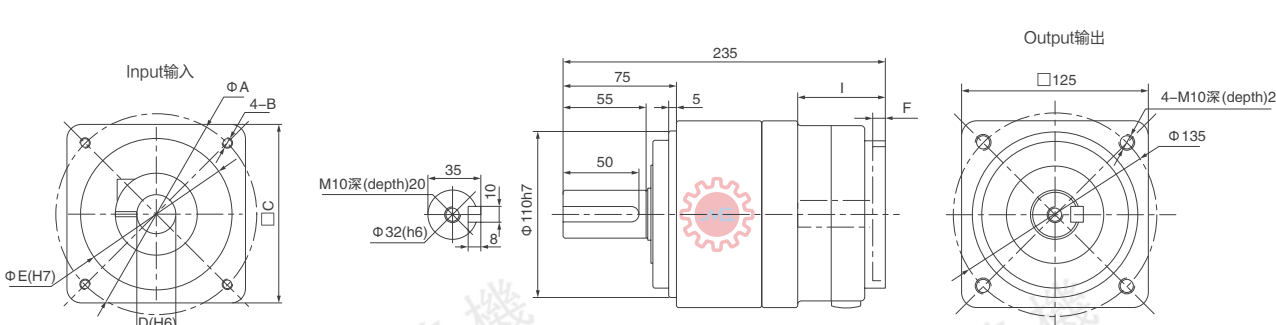
98MHB3-2000



125MHB5・9-2000



125MHB15-2000



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E  | F | I  |
|----------------|-----|--------------|-----|----|----|---|----|
| Type 1         | 115 | M8深(depth)15 | 100 | 19 | 95 | 4 | 55 |
| Type 2         | 115 | M8深(depth)15 | 100 | 24 | 95 | 4 | 55 |
| Type 3         | 115 | M8深(depth)15 | 100 | 24 | 95 | 4 | 55 |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

MHB 2500W 尺寸图与性能表 MHB 2500W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 2500W                                | 1/3                       | 125             | MHB          | 3                         | 2500              | 1000                                        | 19.0                                                | 57.2                                                                 | 1370                                            | 686                                            | 5.55                                                                                                                                    | 44.1                                                   | 132                                                                          |
|                                      | 1/5                       | 125             | MHB          | 5                         | 2500              | 600                                         | 31.8                                                | 95.5                                                                 | 1670                                            | 833                                            | 3.50                                                                                                                                    | 56.8                                                   | 171                                                                          |
|                                      | 1/9                       | 125             | MHB          | 9                         | 2500              | 333                                         | 60.8                                                | 182                                                                  | 1960                                            | 980                                            | 2.81                                                                                                                                    | 73.5                                                   | 221                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

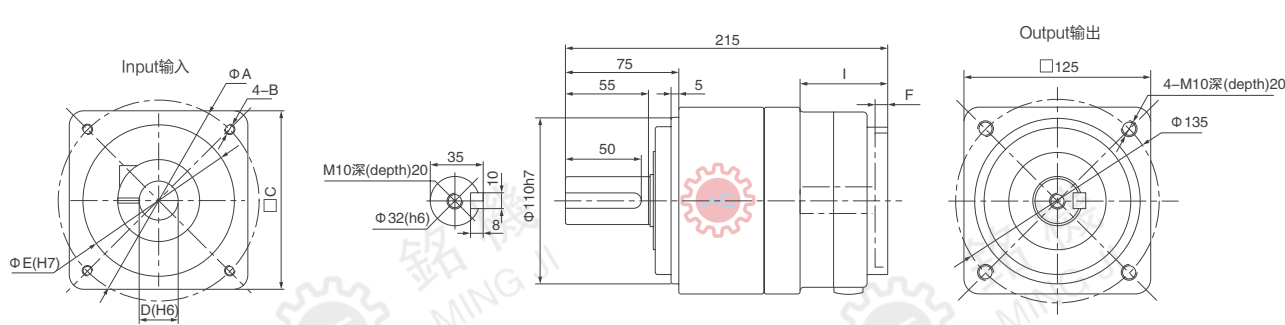
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

125MHB3・5・9-2500



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E  | F | I  |
|----------------|-----|--------------|-----|----|----|---|----|
| Type 1         | 115 | M8深(depth)15 | 100 | 19 | 95 | 4 | 55 |
| Type 2         | 115 | M8深(depth)15 | 100 | 24 | 95 | 4 | 55 |
| Type 3         | -   | M8深(depth)15 | -   | -  | -  | - | -  |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

MHB 3000W 尺寸图与性能表 MHB 3000W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 3000W                                | 1/3                       | 125             | MHB          | 3                         | 3000              | 1000                                        | 23.7                                                | 71.2                                                                 | 1370                                            | 686                                            | 5.50                                                                                                                                    | 44.1                                                   | 132                                                                          |
|                                      | 1/5                       | 125             | MHB          | 5                         | 3000              | 600                                         | 39.6                                                | 119                                                                  | 1670                                            | 833                                            | 3.48                                                                                                                                    | 56.8                                                   | 171                                                                          |
|                                      | 1/9                       | 125             | MHB          | 9                         | 3000              | 333                                         | 73.0                                                | 219                                                                  | 1960                                            | 980                                            | 2.77                                                                                                                                    | 73.5                                                   | 221                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

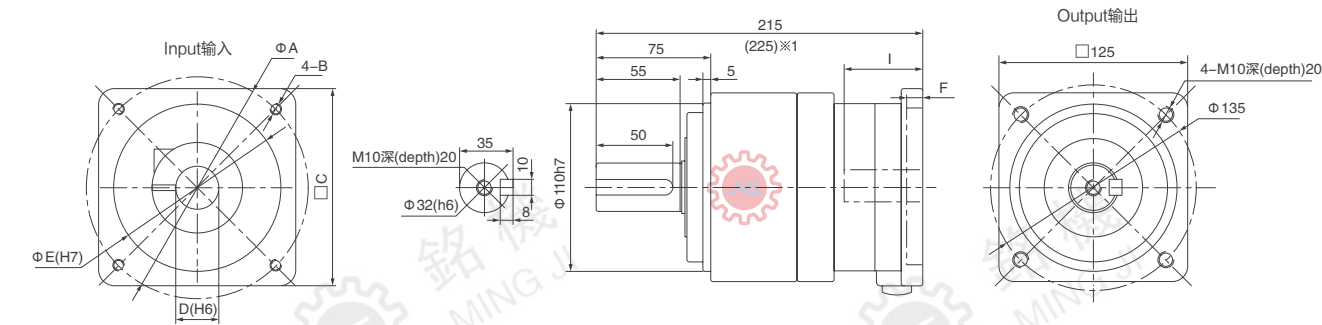
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

125MHB3・5・9-3000



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E   | F | I  |
|----------------|-----|--------------|-----|----|-----|---|----|
| Type 1         | 130 | M8深(depth)15 | 120 | 22 | 110 | 7 | 55 |
| Type 2         | 145 | M8深(depth)15 | 130 | 28 | 110 | 7 | 65 |
| Type 3         | -   | M8深(depth)15 | -   | -  | -   | - | -  |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 3500W 尺寸图与性能表 MHB 3500W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 3500W                                | 1/3                       | 125             | MHB          | 3                         | 3500              | 1000                                        | 28.3                                                | 85.2                                                                 | 1370                                            | 686                                            | 5.50                                                                                                                                    | 44.1                                                   | 132                                                                          |
|                                      | 1/5                       | 125             | MHB          | 5                         | 3500              | 600                                         | 47.2                                                | 141                                                                  | 1670                                            | 833                                            | 3.48                                                                                                                                    | 56.8                                                   | 171                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

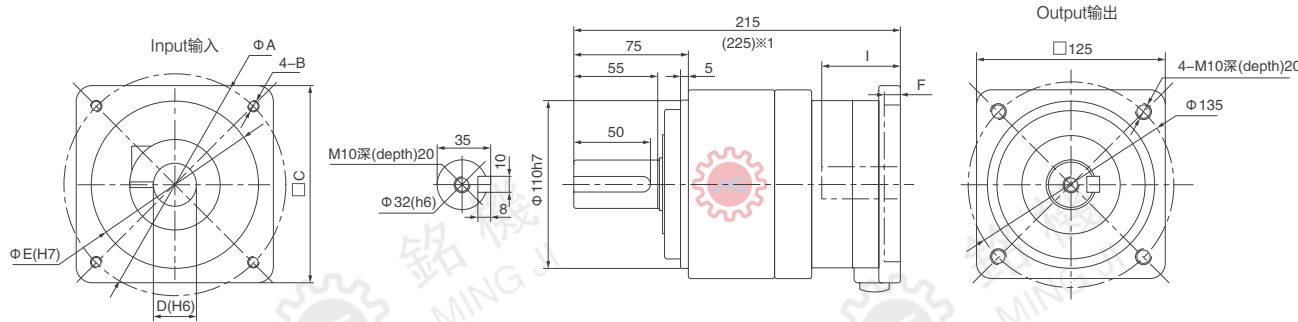
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

125MHB3・5-3500



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E   | F | I  |
|----------------|-----|--------------|-----|----|-----|---|----|
| Type 1         | 130 | M8深(depth)15 | 120 | 22 | 110 | 7 | 55 |
| Type 2         | -   | M8深(depth)15 | -   | -  | -   | - | -  |
| Type 3         | 145 | M8深(depth)15 | 130 | 28 | 110 | 7 | 65 |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 4000W 尺寸图与性能表 MHB 4000W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4} \text{kg} \cdot \text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                         |                                                        |                                                                              |
| 4000W                                | 1/3                       | 125             | MHB          | 3                         | 4000              | 1000                                        | 33.1                                                | 99.0                                                                 | 1370                                            | 686                                            | 5.78                                                                                                                                    | 44.1                                                   | 132                                                                          |
|                                      | 1/5                       | 125             | MHB          | 5                         | 4000              | 600                                         | 55.3                                                | 166                                                                  | 1670                                            | 833                                            | 3.75                                                                                                                                    | 56.8                                                   | 171                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

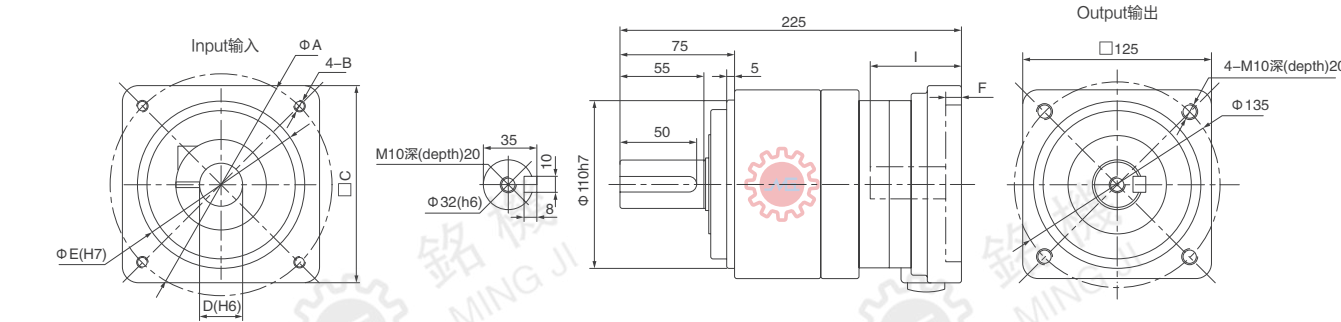
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

125MHB3・5-4000



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E   | F | I  |
|----------------|-----|--------------|-----|----|-----|---|----|
| Type 1         | 145 | M8深(depth)15 | 130 | 24 | 110 | 7 | 65 |
| Type 2         | 145 | M8深(depth)15 | 130 | 28 | 110 | 7 | 65 |
| Type 3         | -   | -            | -   | -  | -   | - | -  |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 3500W 尺寸图与性能表 MHB 3500W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4}\text{kg}\cdot\text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                      |                                                        |                                                                              |
| 4500W                                | 1/3                       | 125             | MHB          | 3                         | 4500              | 1000                                        | 37.7                                                | 113                                                                  | 1370                                            | 686                                            | 5.78                                                                                                                                 | 44.1                                                   | 132                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

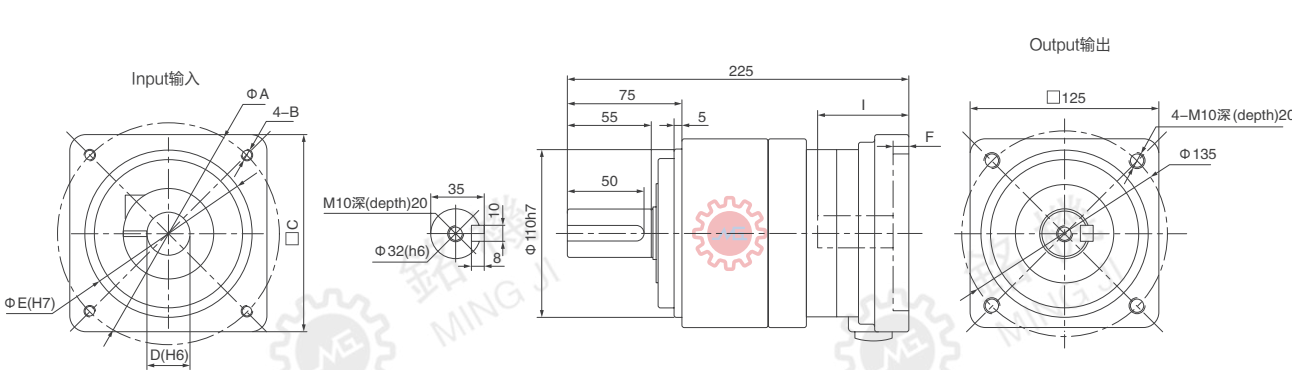
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

125MHB3・5・9-2500



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E   | F | I  |
|----------------|-----|--------------|-----|----|-----|---|----|
| Type 1         | 145 | M8深(depth)15 | 130 | 24 | 110 | 7 | 65 |
| Type 2         | -   | -            | -   | -  | -   | - | -  |
| Type 3         | -   | -            | -   | -  | -   | - | -  |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

减速机性能资料 REDUCER PERFORMANCE DATA

MHB 5000W 尺寸图与性能表 MHB 5000W Dimensional Drawing & Performance Table

性能表 Performance Table ( 输入转速为 3000rpm 时 When input speed is 3000rpm)

| 额定输入<br>马达功率<br>Rated input<br>motor | 减速比<br>Reduction<br>Ratio | 型号 Type         |              |                           |                   | 输出轴<br>转速<br>Output<br>shaft speed<br>(rpm) | 额定输出<br>扭矩<br>Standard<br>output<br>torque<br>(N.m) | 瞬间最大<br>输出扭矩<br>Instantan-<br>eous<br>max. output<br>torque<br>(N.m) | 容许径向<br>负荷<br>Permissible<br>radial load<br>(N) | 容许轴向<br>负荷<br>Permissible<br>axial load<br>(N) | 输入轴换算<br>内部<br>惯性力矩<br>Internal moment<br>of inertia<br>of input shaft<br>conversion<br>( $\times 10^{-4}\text{kg}\cdot\text{m}^2$ ) | 容许输出<br>扭矩<br>Permissible<br>output<br>torque<br>(N.m) | 瞬间最大容许<br>输出扭矩<br>Instantaneous<br>max.permissible<br>output torque<br>(N.m) |
|--------------------------------------|---------------------------|-----------------|--------------|---------------------------|-------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                      |                           | 机座号<br>Type No. | 系列号<br>Model | 减速比<br>Reduction<br>Ratio | 马达<br>功率<br>Motor |                                             |                                                     |                                                                      |                                                 |                                                |                                                                                                                                      |                                                        |                                                                              |
| 5000W                                | 1/3                       | 125             | MHB          | 3                         | 5000              | 1000                                        | 42.9                                                | 128                                                                  | 1370                                            | 686                                            | 5.78                                                                                                                                 | 44.1                                                   | 132                                                                          |

注 1) 安装基准系列(马达适用表记载系列)以外的马达时, 每次都要与我们联系。(法兰尺寸可能不同)

注 2) 输入轴换算惯性力矩仅为减速机的数值, 不包括马达的惯性力矩。

注 3) 最高输入转速为 5000rpm。正常情况下请转速控制在 3000rpm 以下。

注 4) 容许径向负荷表示输出轴中央部位的值。

注 5) 全部为斜齿轮适用范围。

注 6) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models (motor matching series), contact us. (How to measure dimensions of the flange may be changed in some cases.)

Note 2) The moment of inertia of input shaft conversion is only gained from the reducer. so it does not include moment of inertia of the motor.

Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.

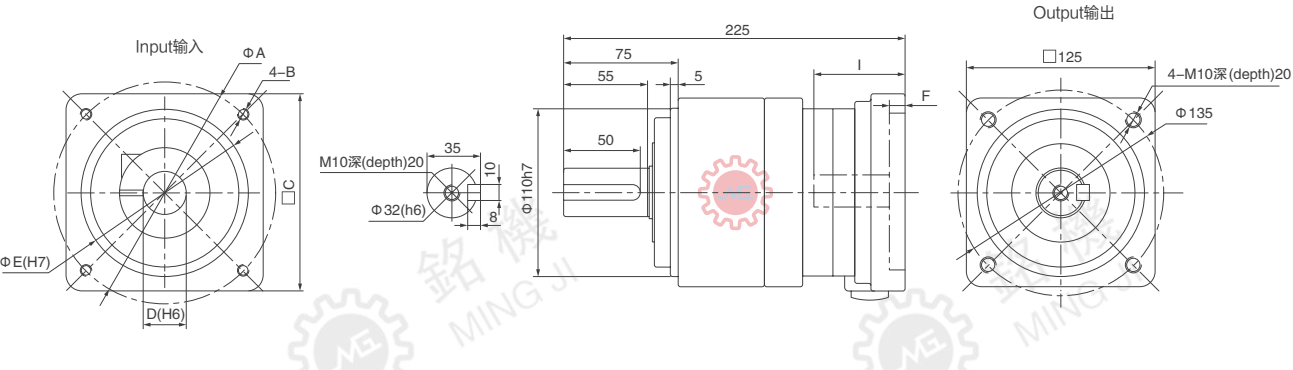
Note 4) The permissible radial load is indicated on the center of the output shaft.

Note 5) All values are within the range corresponding to helical gear.

Note 6) Rotation of the output shaft is in the same direction as motor.

尺寸图 Dimensional Drawing

125MHB3・5・9-2500



法兰部位详细尺寸表 Detailed flange dimensions table ( 单位 Unit: mm)

| 马达种类Motor Type | A   | B            | C   | D  | E   | F | I  |
|----------------|-----|--------------|-----|----|-----|---|----|
| Type 1         | 145 | M8深(depth)15 | 130 | 24 | 110 | 7 | 65 |
| Type 2         | 145 | M8深(depth)15 | 130 | 28 | 110 | 7 | 65 |
| Type 3         | 145 | M8深(depth)15 | 130 | 28 | 110 | 7 | 65 |

Type 1~3 的详细情况请参照样册

Please refer to the sample book for details of Type 1~3

对应表 Matching Table

| 生产厂家<br>Motor<br>manufacturer   | 马达系列<br>Motor series | 马达功率 Motor power (W) |                    |                    |                    |                    |
|---------------------------------|----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
|                                 |                      | 50W                  | 100W               | 200W               | 400W               | 750W               |
| 松下电器产业 (株)<br>Panasonic         | MSM                  | TYPE 1               | TYPE 1             | TYPE 1             | TYPE 1             | TYPE 1             |
|                                 | MSMA                 | TYPE 1               | TYPE 1             | TYPE 1             | TYPE 1             | TYPE 1             |
|                                 | MSMD                 | TYPE 1               | TYPE 1             | TYPE 1             | TYPE 1             | TYPE 1             |
|                                 | MUMA                 | 基准外Out of Standard   | 基准外Out of Standard | TYPE 1             | TYPE 1             | TYPE 1             |
|                                 | MBMK                 | TYPE1                | 基准外Out of Standard | TYPE 1             | TYPE 1             | TYPE 1             |
|                                 | MUMS                 | 基准外Out of Standard   | 基准外Out of Standard | 基准外Out of Standard | 基准外Out of Standard | 基准外Out of Standard |
| (株) 安川电机<br>Yaskawa Electric    | SGM                  | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
|                                 | SGMAH                | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
|                                 | SGMAS                | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
|                                 | SJME                 | 无对象No subject        | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
|                                 | SGMJV                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | SGMAV                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
| 三菱电机 (株)<br>Mitsubishi Electric | HC-KF                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | HC-KFS               | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | HC-MF                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | HC-MFS               | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | HA-ME                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | HC-PQ                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 无对象No subject      |
|                                 | HC-KQ                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 无对象No subject      |
|                                 | HF-KP                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | HF-MP                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 3             |
| 欧姆龙 (株)<br>Omron                | R88M-U               | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
|                                 | R88M-W               | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
|                                 | R7M-A                | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
|                                 | R7M-Z                | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
| 富士电机 (株) Fuji                   | GYS*                 | TYPE 2               | TYPE 2             | TYPE 2             | TYPE 2             | TYPE 2             |
| 山洋电气 (株)<br>Sanyo denki         | P30B                 | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | TYPE 2             |
|                                 | Q1                   | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 基准外Out of Standard |
| (株)基恩斯 Keyence                  | MV                   | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 基准外Out of Standard |
| 东荣电机 (株)<br>Toshiba Machine     | VLBSV-Z*             | 基准外Out of Standard   | 基准外Out of Standard | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | VLBSV-ZA*            | 基准外Out of Standard   | 基准外Out of Standard | TYPE 3             | TYPE 3             | TYPE 3             |
|                                 | VLBST                | 基准外Out of Standard   | 基准外Out of Standard | TYPE 3             | TYPE 3             | 基准外Out of Standard |
| 多摩川精机 (株)<br>Tamagawa Seiki     | TBL-i*               | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 无对象No subject      |
|                                 | TBL-i II*            | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 基准外Out of Standard |
| 日机电装 (株)<br>Nikki Denso         | NA50                 | TYPE 1               | TYPE 1             | TYPE 1             | TYPE 1             | TYPE 1             |
|                                 | NA70*                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 无对象No subject      |
|                                 | NA80*                | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 基准外Out of Standard |
| (株) 三明<br>Sanmei                | TS*                  | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 基准外Out of Standard |
|                                 | SS*                  | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 基准外Out of Standard |
| (株)日立产机Hitachi                  | ADMA                 | TYPE 3               | TYPE 3             | TYPE 3             | TYPE 3             | 基准外Out of Standard |
| 三木普利 Miki Pulley                | SA3                  | TYPE 1               | TYPE 1             | TYPE 1             | TYPE 1             | TYPE 1             |

对应表 Matching Table

| 生产厂家<br>Motor<br>manufacturer   | 马达系列<br>Motor series | 马达功率 Motor power (W) |        |        |               |        |               |        |               |        |
|---------------------------------|----------------------|----------------------|--------|--------|---------------|--------|---------------|--------|---------------|--------|
|                                 |                      | 1000W                | 1500W  | 2000W  | 2500W         | 3000W  | 3500W         | 4000W  | 4500W         | 5000W  |
| 松下电器产业 (株)<br>Panasonic         | MSM                  | TYPE 1               | TYPE 1 | TYPE 1 | TYPE 1        | TYPE 1 | TYPE 1        | TYPE 1 | TYPE 1        | TYPE 1 |
|                                 | MSMA                 | TYPE 1               | TYPE 1 | TYPE 1 | TYPE 1        | TYPE 1 | TYPE 1        | TYPE 1 | TYPE 1        | TYPE 1 |
| (株) 安川电机<br>Yaskawa Electric    | SGMS                 | TYPE 2               | TYPE 2 | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 |
|                                 | SGMSH                | TYPE 2               | TYPE 2 | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 |
|                                 | SGMSS                | TYPE 2               | TYPE 2 | TYPE 2 | TYPE 2        | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 |
| 三菱电机 (株)<br>Mitsubishi Electric | HC-RF                | TYPE 3               | TYPE 3 | TYPE 3 |               |        | TYPE 3        |        |               | TYPE 3 |
|                                 | HC-RFS               | TYPE 3               | TYPE 3 | TYPE 3 |               |        | TYPE 3        |        |               | TYPE 3 |
|                                 | HC-RP                | TYPE 3               | TYPE 3 | TYPE 3 |               |        | TYPE 3        |        |               | TYPE 3 |
| 欧姆龙 (株)<br>Omron                | R88M-U               | TYPE 2               | TYPE 2 | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 |
|                                 | R88M-W               | TYPE 2               | TYPE 2 | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 |
| 富士电机(株) Fuji                    | GYS*                 | TYPE 3               | TYPE 3 | TYPE 3 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 | 无对象No subject | TYPE 2 |

下列系列马达也可以标准方式适应 Standard Compatibility With The Follwing Motor Series

| 生产厂家<br>Motor<br>manufacturer   | 马达系列<br>Motor series | 马达功率 Motor power (W)             |
|---------------------------------|----------------------|----------------------------------|
| 三菱电机 (株)<br>Mitsubishi Electric | HC-SFS*              | 500W, 1000W, 1500W, 2000W, 3500W |
|                                 | HF-SP                |                                  |
| (株) 安川电机<br>Yaskawa Electric    | SGMP                 | 100W, 200W, 400W, 750W, 1500W    |
|                                 | SGMPH                |                                  |
|                                 | SGMPS                |                                  |
| 松下电器产业 (株)<br>Panasonic         | MQMA                 | 100W, 200W, 400W                 |
|                                 |                      |                                  |
| 欧姆龙 (株)<br>Omron                | R88M-WP              | 100W, 200W, 400W, 750W, 1500W    |
|                                 | R7M-AP               | 100W, 200W, 400W, 750W           |
| 富士电机(株) Fuji                    | GYC                  | 100W, 200W, 400W                 |
| 发那科 (株)Fanuc                    | β IS*                | 200W, 400W, 500W, 750W, 1200W    |

注 1) 没有油封和尺寸不同时, 安装带油封的马达有时需特别订货。  
注 2) 马达轴为 D 形轴、锥形时需要特别订货。  
注 3) 因马达功率(适用表中带 \* 的马达)与减速比的组合, 出现瞬间最大输出扭矩时, 产生的轴向力有时会超过伺服马达容许轴向力, 因此, 需要注意。  
注 4) 基准外有时需要特别订货。欲知详情, 请另外与本公司联系。

Note 1) If an oil-seal is not present and the size is different, attachment of the oil-seal may correspond to specia order, in some cases.  
Note 2) If the motor shaft is of D-cut and taper type, it corresponds to a special order.  
Note 3) Note that thrust power arsing out of instantaneous max. ouyput torque bu the combination of motor capacith (motor of the motor series table) and reduction ratio may exceed permissible thrust power of the servo motor.  
Note 4) Out-of-standard may correspond to a special order in some cases. For details, contact us.

除上述伺服马达厂家外, 本公司减速机还适配以下伺服马达厂家. 安装方式请咨询本公司。  
Our gearbox can match to servo motor of followings manufacturers, including aboves. Please ask us about the assembly.

- 神钢电机 (株)
- 日本电产三协
- 中达电通
- 路斯特
- 博世力士乐
- 其它etc.