

IB/IBR

精密 刚性*

SERIES

Ratio 减速比: 3: 1—10000: 1 Backlash 回程间隙: up to 6 arcmin
Output 承载扭矩: up to 2950N.m Frame 机座型号: IB/IBR042-220

IB 核心特征

① 结构特征

减速机输出行星架采用一体式螺母消除轴向间隙设计, 前、后圆锥滚子轴承大跨距分布与整体箱体内部, 形成超强的一体式结构, 以确保提高扭转刚性且具有超强的径向承载能力和轴向承载能力, 采用一次加工完成工艺, 保证了极高的同轴度。

减速机齿圈采用整体式结构设计。

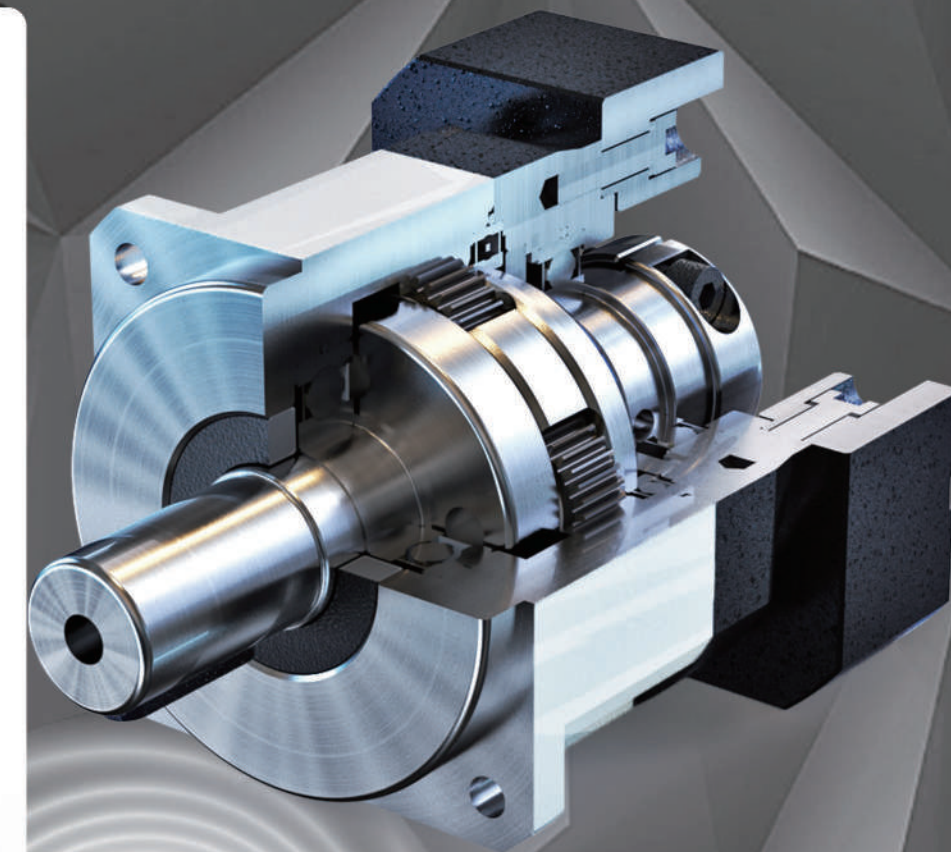
减速机齿圈、行星架、输入轴均采用40Cr优质结构钢, 经热锻加工工艺, 从而获得更高的材料密度, 比采用铸造箱体、圆钢等, 具有更高强度刚性、韧性。

② 齿轮特征

真正的硬齿面斜齿轮, 齿轮材料采用20CrMnTi优质合金钢, 经渗碳-磨齿工艺加工, 硬度可达HRC62, 相比采用普通钢40Cr、38CrMnTi只做表面氮化处理的齿轮具有更高的硬度、刚性、韧性、耐磨性。采用3D Simulation的设计分析技术, 分别对齿轮的齿形、齿向修形及遵循修整, 以降低齿轮的啮合噪音, 增加轮系的使用寿命。

③ 应用特征

大跨距圆锥滚子轴承排列输出一体式行星架构, 使得产品具有极强的径向承载能力和优秀的轴向承载能力, 并具有高刚性。高精度应用、频繁启停和负载变换场合表现突出。



IBR 核心特征

① 结构特征

减速机输出行星架采用一体式螺母消除轴向间隙设计, 前、后圆锥滚子轴承大跨距分布与整体箱体内部, 形成超强的一体式结构, 以确保提高扭转刚性且具有超强的径向承载能力和轴向承载能力, 采用一次加工完成工艺, 保证了极高的同轴度。

减速机齿圈采用整体式结构设计。

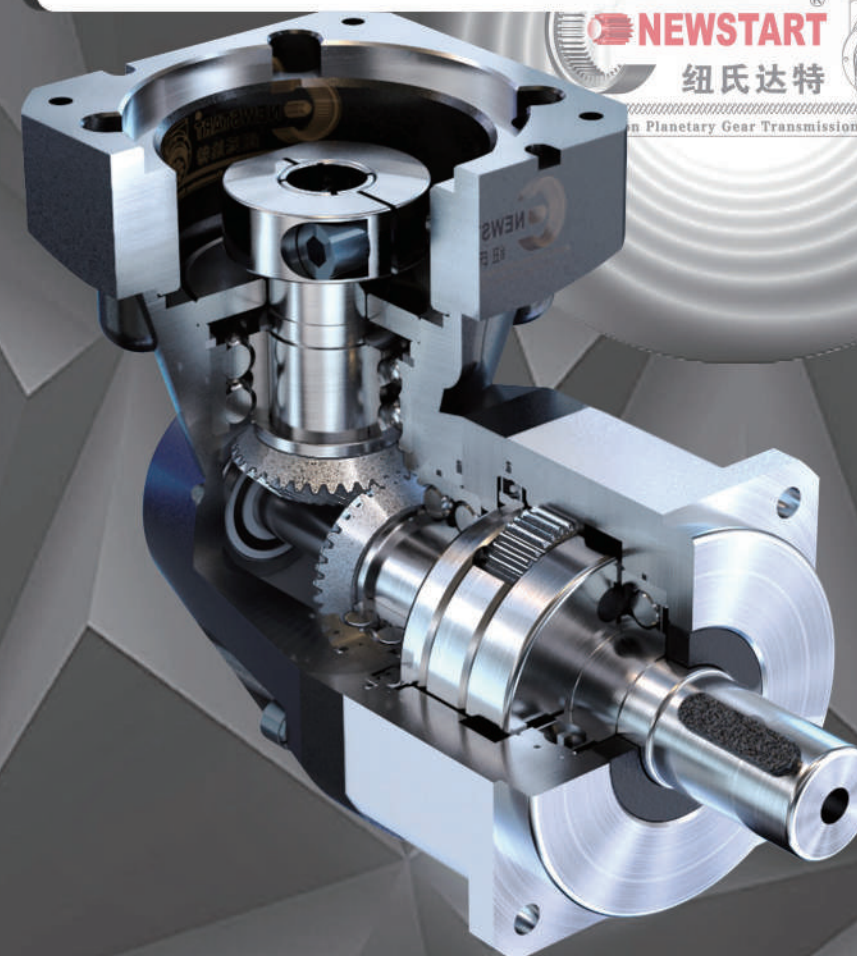
减速机齿圈、行星架、输入轴均采用40Cr优质结构钢, 经热锻加工工艺, 从而获得更高的材料密度, 比采用铸造箱体、圆钢等, 具有更高强度刚性、韧性。

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真正的硬齿面斜齿轮, 齿轮材料采用20CrMnTi优质合金钢, 经渗碳-磨齿工艺加工, 硬度可达HRC62, 相比采用普通钢40Cr、38CrMnTi只做表面氮化处理的齿轮具有更高的硬度、刚性、韧性、耐磨性。采用3D Simulation的设计分析技术, 分别对齿轮的齿形、齿向修形及遵循修整, 以降低齿轮的啮合噪音, 增加轮系的使用寿命。

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大跨距圆锥滚子轴承排列输出一体式行星架构, 使得产品具有极强的径向承载能力和优秀的轴向承载能力, 并具有高刚性。高精度应用、频繁启停和负载变换场合表现突出。



| | | | | | | | | | | | | | |
|--|-----------|---|--|-------|-------|-------|-------|-------|---------|-------|--|--|--|
| IB 减速机性能资料 Speed reducer performance data | | | 精密行星减速机综合性能参数 Comprehensive performance parameters of precision planetary reducer | | | | | | | | IB 减速机性能资料 Speed reducer performance data | | |
| ■ 减速机性能资料/ Speed reducer performance data | | | | | | | | | | | | | |
| 规格 | | 节数 | 减速比 | IB042 | IB060 | IB090 | IB115 | IB142 | IB180 | IB220 | | | |
| 额定承载扭矩T _{2N} Nominal output torque | | 1 | 3 | 13 | 35 | 100 | 190 | 440 | 743 | 2042 | | | |
| | | | 4 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | | | |
| | | | 5 | 17 | 45 | 115 | 245 | 635 | 1152. 5 | 2062 | | | |
| | | | 6 | 12 | 40 | 105 | 240 | 500 | 820 | 1760 | | | |
| | | | 8 | 12 | 38 | 95 | 210 | 450 | 800 | 1350 | | | |
| | | | 10 | | 32 | 86 | 196 | 400 | 710 | 1300 | | | |
| | | 2 | 9 | 13 | 35 | 100 | 190 | 440 | 743 | 2042 | | | |
| | | | 12 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | | | |
| | | | 15 | 17 | 45 | 115 | 245 | 635 | 1152. 5 | 2062 | | | |
| | | | 16 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | | | |
| | | | 20 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | | | |
| | | | 25 | 17 | 45 | 115 | 245 | 635 | 1152. 5 | 2062 | | | |
| | | | 30 | 17 | 45 | 115 | 245 | 635 | 1152. 5 | 2062 | | | |
| | | | 32 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | | | |
| | | | 40 | 17 | 45 | 115 | 245 | 635 | 1152. 5 | 2062 | | | |
| | | | 50 | 17 | 45 | 115 | 245 | 635 | 1152. 5 | 2062 | | | |
| | | 64 | 12 | 38 | 95 | 210 | 450 | 800 | 1350 | | | | |
| | | 80 | 12 | 38 | 95 | 210 | 450 | 800 | 1350 | | | | |
| ≥3 | ≥100 | 3级减速以上的减速机详细参数，请详询工厂客服，具体参数以外形图纸为准。 Detailed parameters of gear reducer above grade 3deceleration, please consult factory customer service in detail. Specific parameters are based on the outline drawings. | | | | | | | | | | | |
| 最大加速力矩 T _{2B} Maximum acceleration | Nm | 1&2 | 1.8*T2N (1.8倍额定扭矩 1.8times rated torque) | | | | | | | | | | |
| 急停扭矩 T _{2Not} Sudden stop torque | Nm | 1&2 | 3*T2N (3倍额定扭矩 3times rated torque) | | | | | | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1&2 | 3000 | 3000 | 3000 | 3000 | 2000 | 1500 | 1000 | | | | |
| 最大输入转速 Maximum input speed | rpm | 1&2 | 6000 | 6000 | 6000 | 6000 | 4000 | 3000 | 2000 | | | | |
| 精密背隙 Precision backlash | P1-arcmin | 1 | 10 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | | | |
| | | 2 | 12 | 8 | 8 | 8 | 8 | 8 | 8 | 12 | | | |
| | P2-arcmin | 1 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 16 | | | |
| | | 2 | 18 | 10 | 10 | 10 | 10 | 10 | 10 | 18 | | | |
| 噪音 Noise | dB(A) | 1&2 | 58 | 60 | 60 | 63 | 65 | 72 | 75 | | | | |
| 容许最大径向负载 Maximum radial load | N | 1&2 | 205 | 950 | 1600 | 2900 | 5700 | 8500 | 9200 | | | | |
| 容许最大轴向负载 Maximum axial load | N | 1&2 | 340 | 740 | 1500 | 1950 | 3150 | 5800 | 7200 | | | | |
| 效率 Efficiency | % | 1 | ≥97% | | | | | | | | | | |
| | | 2 | ≥94% | | | | | | | | | | |
| 使用环境温度 Use of temperature | ℃ | 1&2 | <-15℃~+40℃> | | | | | | | | | | |
| 使用寿命 Service life | h | 1&2 | ≥20000 | | | | | | | | | | |
| 润滑 Lubrication | | 1&2 | 合成润滑脂（终身免保养） Synthetic grease (lifelong maintenance-free) | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------|----|--------|-------|-------|-------|-------|-------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| IB 转动惯量总表 | | | | | | | | | | | | | | | | | | | | |
| 惯性力矩 kgcm ² | | IB042 | IB060 | | | IB090 | | | IB115 | | | IB142 | | | IB180 | | | IB220 | | |
| | 速比 | ≤φ8 | ≤φ8 | ≤φ14 | ≤φ19 | ≤φ14 | ≤φ19 | ≤φ24 | ≤φ19 | ≤φ24 | ≤φ35 | ≤φ24 | ≤φ35 | ≤φ42 | ≤φ24 | ≤φ42 | ≤φ55 | ≤φ38 | ≤φ48 | ≤φ65 |
| 一段 | 3 | 0. 053 | 0. 14 | 0. 22 | 0. 43 | 0. 72 | 1. 2 | 3. 2 | 3. 3 | 5. 3 | 13 | 12 | 20 | 42 | 44 | 66 | 130 | 44 | 90 | 150 |
| | 4 | 0. 041 | 0. 1 | 0. 17 | 0. 38 | 0. 49 | 0. 95 | 3 | 2 | 4. 1 | 12 | 7. 5 | 15 | 37 | 28 | 50 | 110 | 28 | 62 | 120 |
| | 5 | 0. 036 | 0. 08 | 0. 16 | 0. 36 | 0. 4 | 0. 86 | 2. 9 | 1. 6 | 3. 6 | 11 | 5. 8 | 14 | 36 | 22 | 44 | 100 | 22 | 52 | 110 |
| | 6 | 0. 034 | 0. 07 | 0. 15 | 0. 36 | 0. 36 | 0. 82 | 2. 8 | 1. 3 | 3. 3 | 11 | 4. 9 | 13 | 35 | 18 | 41 | 100 | 18 | 47 | 110 |
| | 8 | 0. 031 | 0. 06 | 0. 14 | 0. 35 | 0. 31 | 0. 77 | 2. 8 | 1 | 3. 1 | 11 | 3. 8 | 12 | 34 | 15 | 37 | 97 | 15 | 40 | 100 |
| | 10 | 0. 03 | 0. 06 | 0. 14 | 0. 34 | 0. 29 | 0. 75 | 2. 8 | 0. 95 | 3 | 11 | 3. 5 | 11 | 34 | 14 | 36 | 96 | 14 | 38 | 98 |
| | 9 | 0. 035 | 0. 06 | 0. 14 | 0. 27 | 0. 28 | 0. 72 | 2. 8 | 0. 86 | 2. 8 | 11 | 3. 2 | 10 | 34 | 14 | 34 | | 14 | 36 | |
| 二段 | 12 | 0. 035 | 0. 06 | 0. 14 | 0. 27 | 0. 28 | 0. 72 | 2. 8 | 0. 86 | 2. 8 | 11 | 3. 2 | 10 | 34 | 14 | 34 | | 14 | 36 | |
| | 15 | 0. 035 | 0. 06 | 0. 14 | 0. 31 | 0. 28 | 0. 72 | 2. 8 | 0. 86 | 2. 8 | 11 | 3. 2 | 10 | 34 | 12 | 34 | | 14 | 36 | |
| | 16 | 0. 038 | 0. 06 | 0. 14 | 0. 31 | 0. 3 | 0. 74 | 2. 8 | 0. 92 | 2. 8 | 11 | 3. 5 | 10 | 34 | 13 | 34 | | 16 | 37 | |
| | 20 | 0. 034 | 0. 05 | 0. 13 | 0. 29 | 0. 28 | 0. 72 | 2. 8 | 0. 83 | 2. 8 | 11 | 3. 1 | 10 | 34 | 12 | 34 | | 14 | 35 | |
| | 25 | 0. 034 | 0. 05 | 0. 13 | 0. 29 | 0. 28 | 0. 71 | 2. 8 | 0. 82 | 2. 8 | 11 | 3. 1 | 10 | 34 | 12 | 34 | | 15 | 35 | |
| | 30 | 0. 03 | 0. 05 | 0. 13 | 0. 29 | 0. 25 | 0. 7 | 2. 8 | 0. 74 | 2. 7 | 11 | 2. 8 | 10 | 34 | 11 | 34 | | 13 | 34 | |
| | 32 | 0. 034 | 0. 05 | 0. 13 | 0. 29 | 0. 27 | 0. 71 | 2. 8 | 0. 81 | 2. 7 | 11 | 3. 1 | 10 | 34 | 11 | 34 | | 12 | 35 | |
| | 40 | 0. 03 | 0. 05 | 0. 13 | 0. 29 | 0. 25 | 0. 7 | 2. 8 | 0. 73 | 2. 7 | 11 | 2. 8 | 10 | 34 | 11 | 34 | | 12 | 33 | |
| | 50 | 0. 03 | 0. 05 | 0. 13 | 0. 29 | 0. 25 | 0. 69 | 2. 8 | 0. 73 | 2. 7 | 11 | 2. 8 | 10 | 34 | 11 | 33 | | 12 | 33 | |
| | 64 | 0. 03 | 0. 05 | 0. 13 | 0. 29 | 0. 25 | 0. 69 | 2. 8 | 0. 73 | 2. 7 | 11 | 2. 8 | 10 | 34 | 11 | 33 | | 12 | 33 | |
| | 80 | 0. 03 | 0. 05 | 0. 13 | 0. 29 | 0. 25 | 0. 69 | 2. 8 | 0. 73 | 2. 7 | 11 | 2. 8 | 10 | 34 | 11 | 33 | | 12 | 33 | |



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 042 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

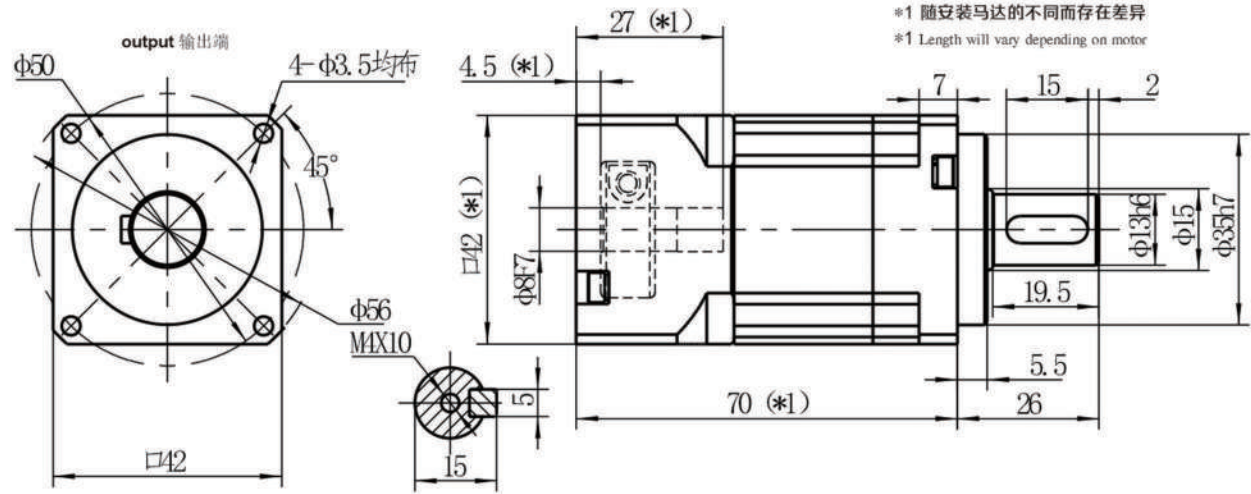
Ratio i
减速比

Backlash
背隙

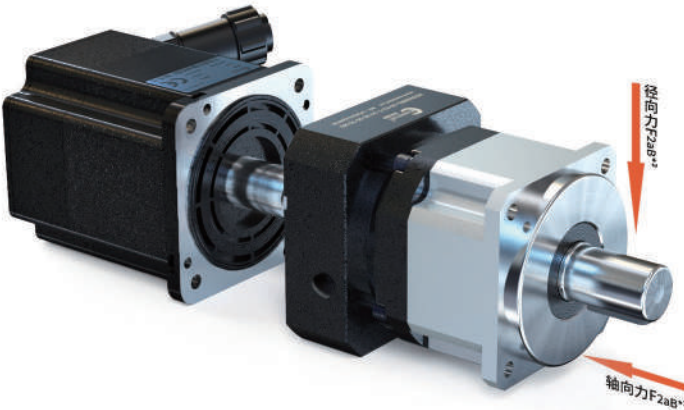
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤8/ Input ≤8



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|--------------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | |
|---|--------------|---|----|----|----|----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 |
| 额定输出扭矩T2N Nominal output torque | Nm | 13 | 18 | 17 | 12 | 12 |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 3times rated torque | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤10 | | | | |
| | P2 arcmin | ≤16 | | | | |
| 噪音 Noise | dB(A) | ≤58 | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 205 | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 340 | | | | |
| 效率 Efficiency | % | ≥97 | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | |
| 重量 (大概) Weight | kg | 0.5kg | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 042 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

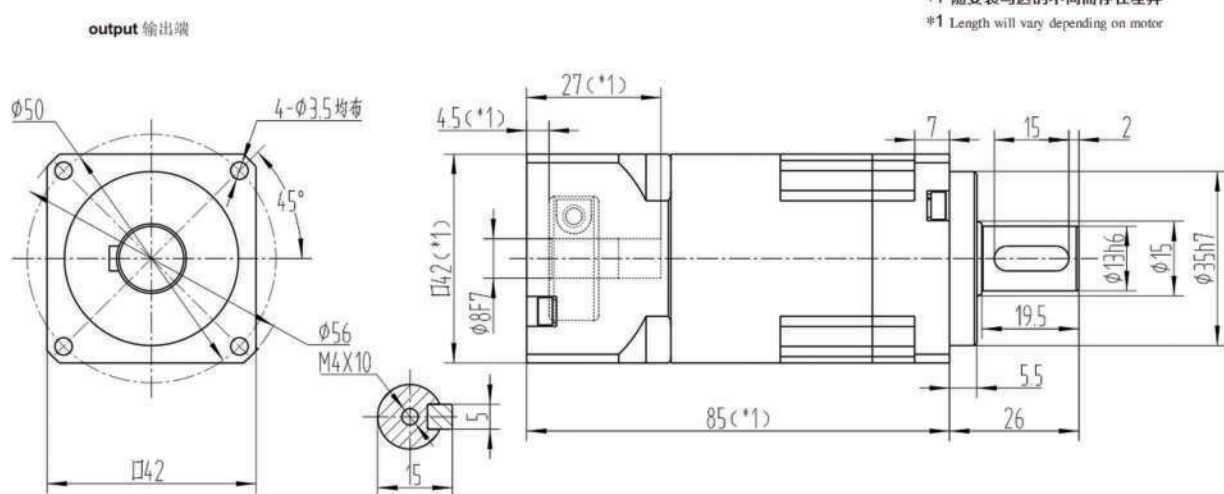
Ratio i
减速比

Backlash
背隙

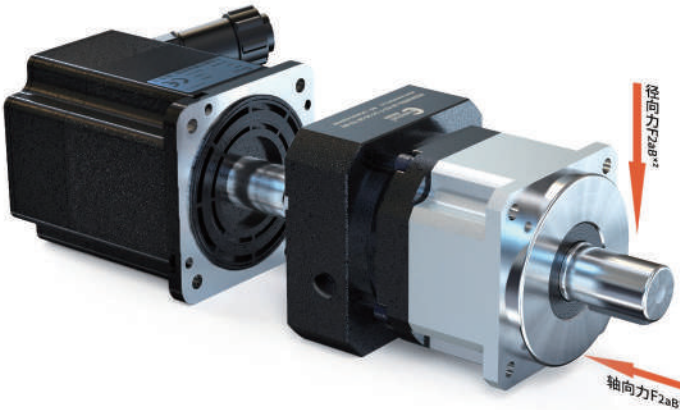
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤8/ Input ≤8



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|--------------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | | |
|---|--------------|---|----|----|----|----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩T2N Nominal output torque | Nm | 13 | 18 | | 17 | 12 | |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤12 | | | | | |
| | P2 arcmin | ≤18 | | | | | |
| 噪音 Noise | dB(A) | ≤58 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 205 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 340 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 0.8kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 060 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

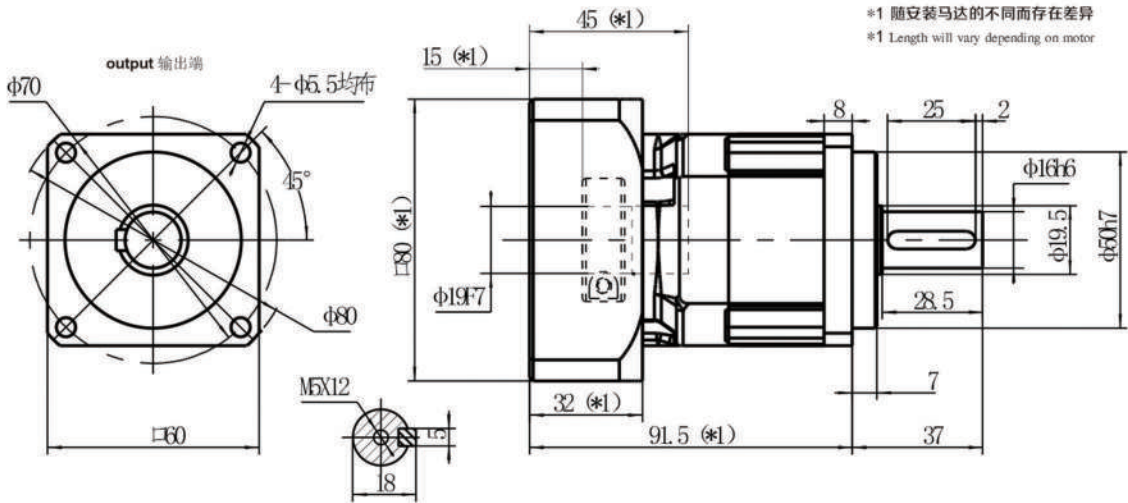
Ratio i
减速比

Backlash
背隙

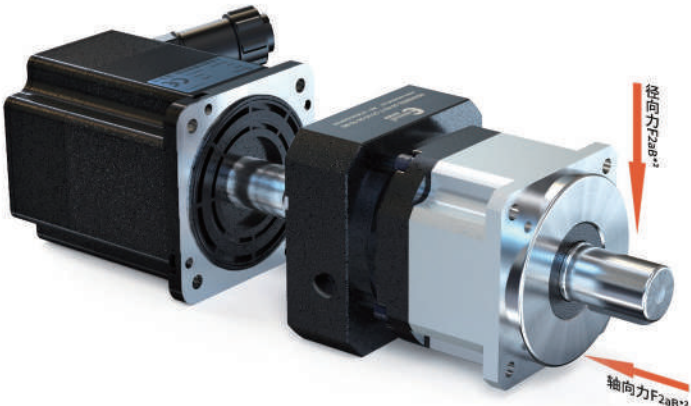
Output type
输出安装方式

伺服电机、交流电机、
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减速机外形尺寸图: 电机输入轴直径≤19/ Input ≤19



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|----|----|----|----|----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩T2N Nominal output torque | Nm | 35 | 50 | 45 | 40 | 38 | 32 |
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| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤6 | | | | | |
| | P2 arcmin | ≤8 | | | | | |
| 噪音 Noise | dB(A) | ≤60 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 950 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 740 | | | | | |
| 效率 Efficiency | % | ≥97 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 0.93kg | | | | | |

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|-----------------|------------------------------------|-------------------|-----|--------------------|
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| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | According to customers 根据客户要求定制 | | | |

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 060 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

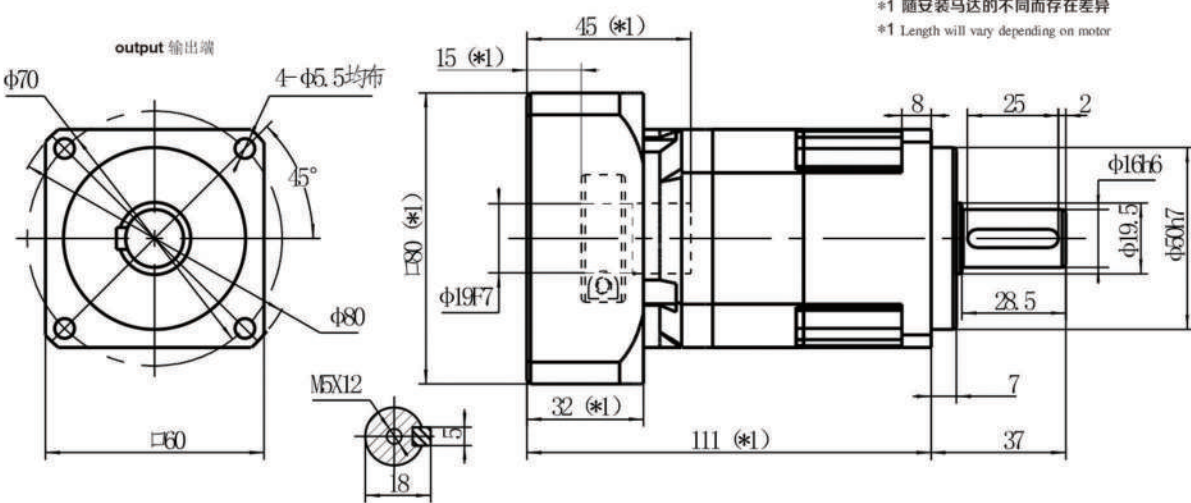
Ratio i
减速比

Backlash
背隙

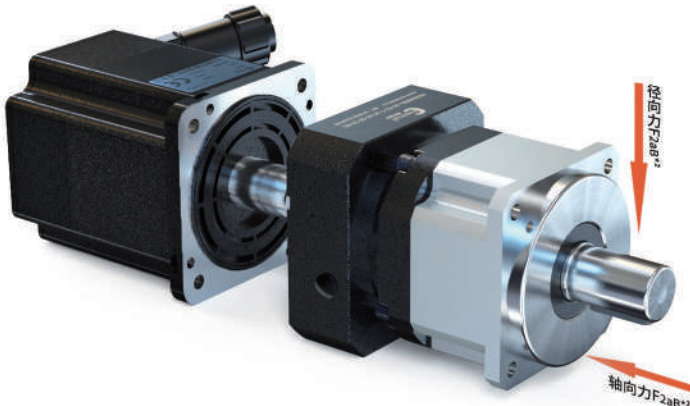
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤19/ Input ≤19



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|----|----|----|----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩T2N Nominal output torque | Nm | 35 | 50 | | | 45 | 38 |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤8 | | | | | |
| | P2 arcmin | ≤10 | | | | | |
| 噪音 Noise | dB(A) | ≤60 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 950 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 740 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 1.15kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|------------------------------------|-------------------|-----|--------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | According to customers 根据客户要求定制 | | | |



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 090 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

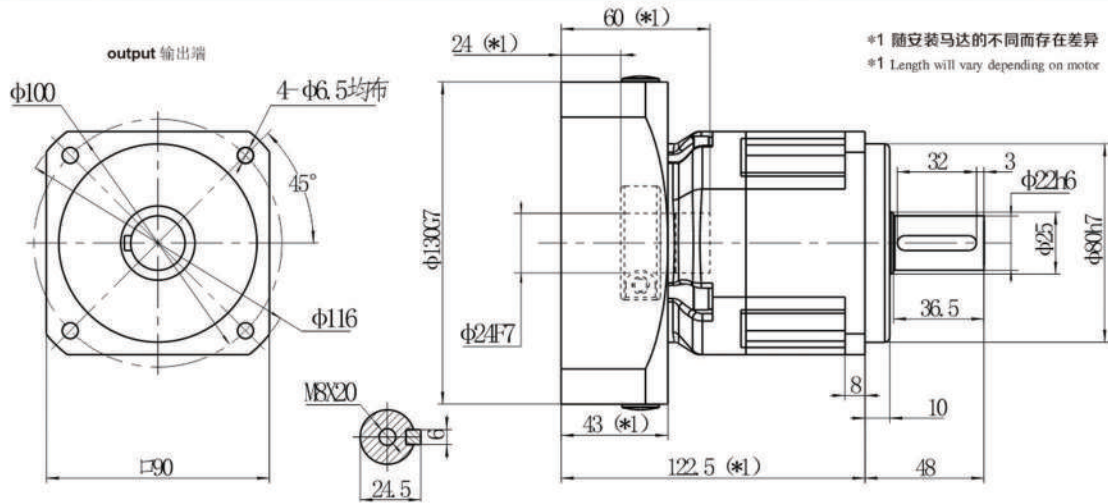
Ratio i
减速比

Backlash
背隙

Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤24/ Input ≤24



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|-----|-----|-----|----|----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 100 | 120 | 115 | 105 | 95 | 86 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤6 | | | | | |
| | P2 arcmin | ≤8 | | | | | |
| 噪音 Noise | dB(A) | ≤60 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 1600 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1500 | | | | | |
| 效率 Efficiency | % | ≥97 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 2.35kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 090 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

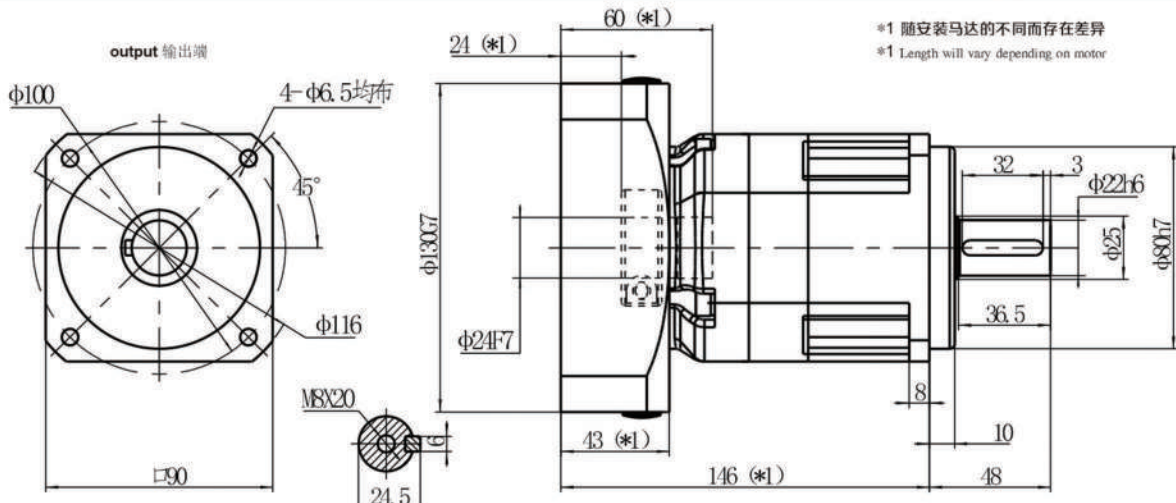
Ratio i
减速比

Backlash
背隙

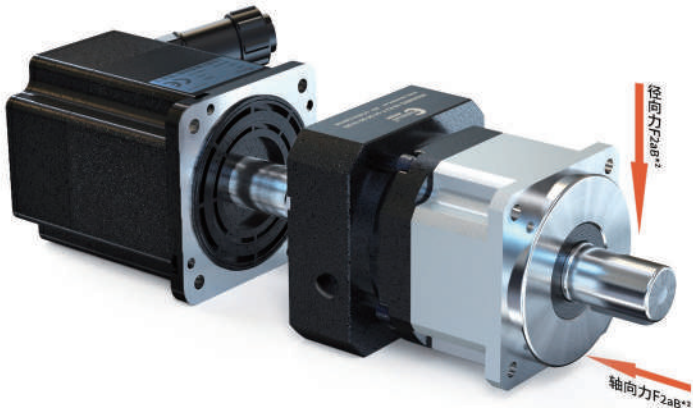
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤24/ Input ≤24



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|-----|----|----|-----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 100 | 120 | | | 115 | 95 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤8 | | | | | |
| | P2 arcmin | ≤10 | | | | | |
| 噪音 Noise | dB(A) | ≤60 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 1600 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1500 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 2.7kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 115 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

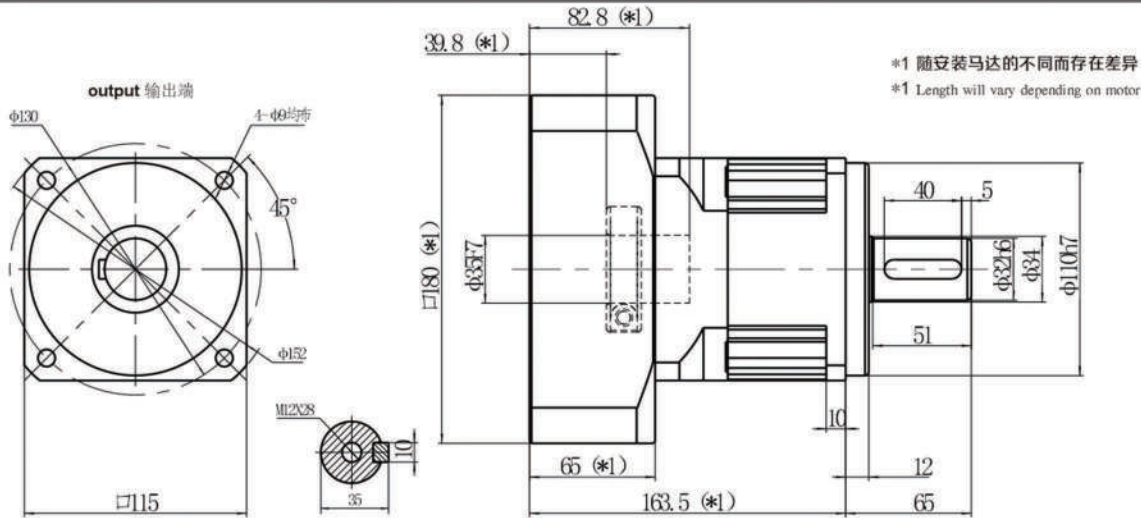
Ratio i
减速比

Backlash
背隙

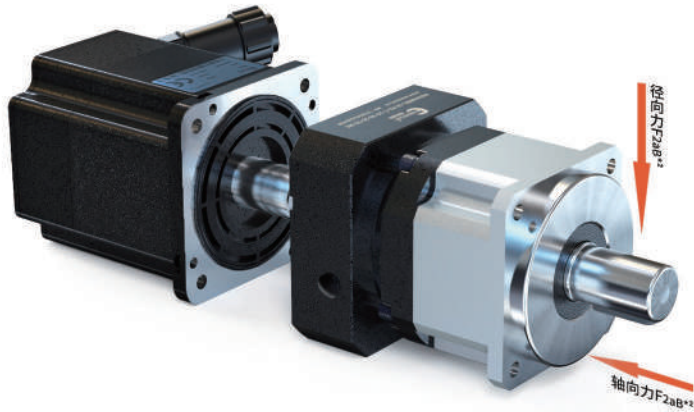
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤35/ Input ≤35



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|-----------|---|-----|-----|-----|-----|-----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 190 | 250 | 245 | 240 | 210 | 196 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 1.8times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1-arcmin | ≤6 | | | | | |
| | P2-arcmin | ≤8 | | | | | |
| 噪音 Noise | dB(A) | ≤63 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 2900 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1950 | | | | | |
| 效率 Efficiency | % | ≥97 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 6kg | | | | | |

*1. 减速比 $i = N_{in}/N_{out}$ *2. 输出转速为100rpm时, 作用于输出轴中心位置
*3. 可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 115 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

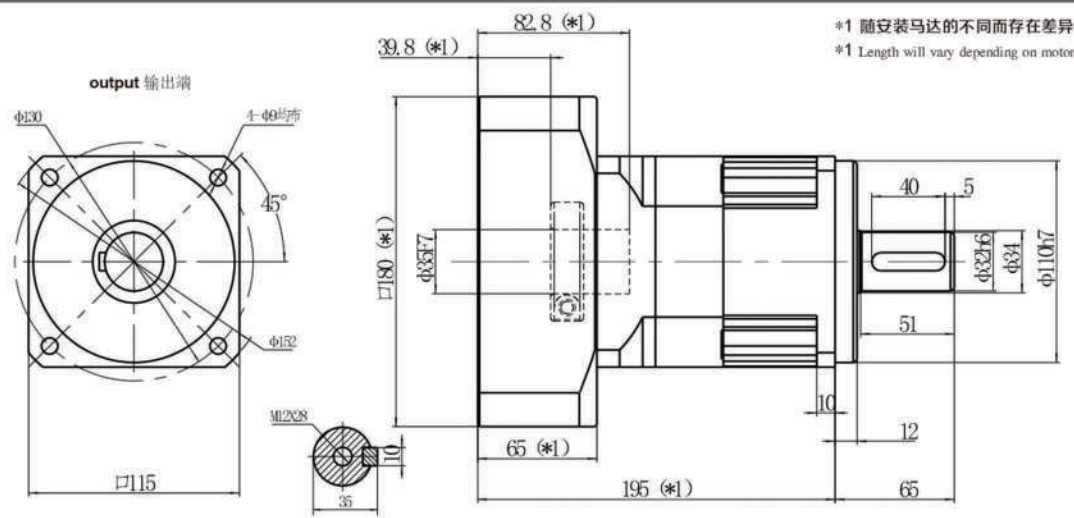
Ratio i
减速比

Backlash
背隙

Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤35/ Input ≤35



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|-----------|---|-----|----|-----|-----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 190 | 250 | | 245 | 210 | |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 1.8times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤8 | | | | | |
| | P2 arcmin | ≤10 | | | | | |
| 噪音 Noise | dB(A) | ≤63 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 2900 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1950 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 8kg | | | | | |

*1. 减速比 $i = N_{in}/N_{out}$ *2. 输出转速为100rpm时, 作用于输出轴中心位置
*3. 可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 142 L1 - 5 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

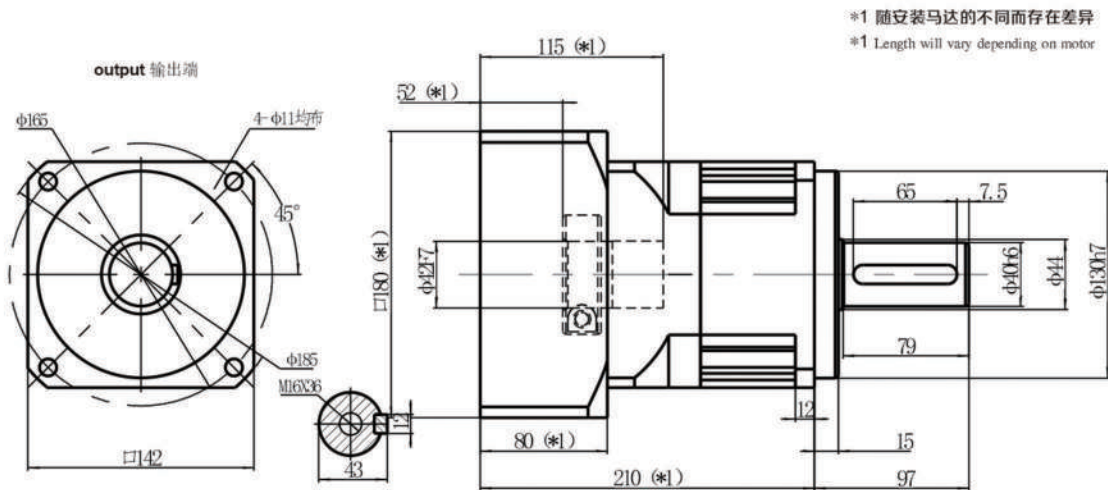
Ratio i
减速比

Backlash
背隙

Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤35/ Input ≤35



*1 随安装马达的不同而存在差异
*1 Length will vary depending on motor

减速机性能参数/ Performance parameter



| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
|---|--------------|---|-----|-----|-----|-----|-----|
| 额定输出扭矩T2N Nominal output torque | Nm | 440 | 770 | 635 | 500 | 450 | 400 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8*T _{2N} 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T _{2N} 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 2000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 4000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤6 | | | | | |
| | P2 arcmin | ≤8 | | | | | |
| 噪音 Noise | dB(A) | ≤65 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 5700 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 3150 | | | | | |
| 效率 Efficiency | % | ≥97 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-30℃~+150℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 Weight | kg | 19kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| Output Shaft | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
|--------------|------------------------------------|-------------------|-----|--------------------|
| | | | | |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | |
| | According to customers 根据客户要求定制 | | | |

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 142 L2 - 25 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

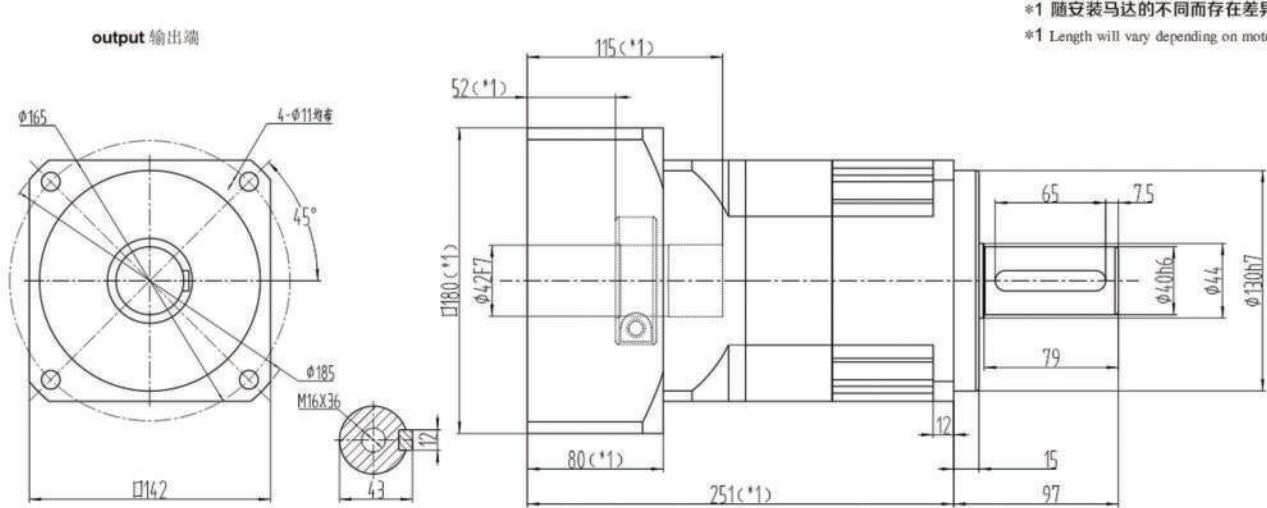
Ratio i
减速比

Backlash
背隙

Output type
输出安装方式

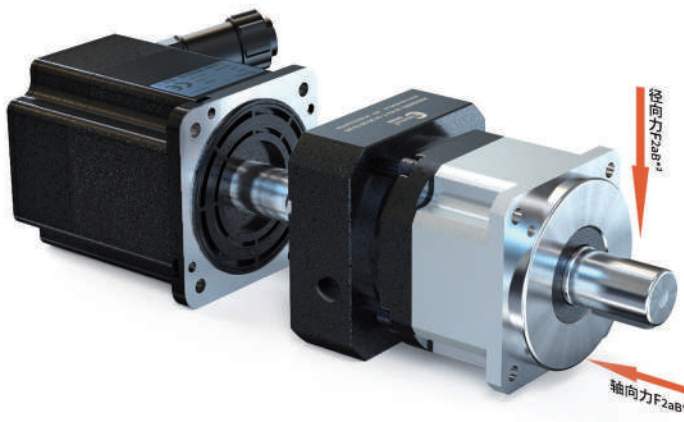
伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤35/ Input ≤35



*1 随安装马达的不同而存在差异
*1 Length will vary depending on motor

减速机性能参数/ Performance parameter



| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
|---|--------------|---|-----|----|----|-----|-----|
| | i 不推荐 | | | | | 30 | 80 |
| 额定输出扭矩T2N Nominal output torque | Nm | 440 | 770 | | | 635 | 450 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8*T _{2N} 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T _{2N} 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 2000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 4000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤8 | | | | | |
| | P2 arcmin | ≤10 | | | | | |
| 噪音 Noise | dB(A) | ≤65 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 5700 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 3150 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 24kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| Output Shaft | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
|--------------|------------------------------------|-------------------|-----|--------------------|
| | | | | |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | |
| | According to customers 根据客户要求定制 | | | |



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 180 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

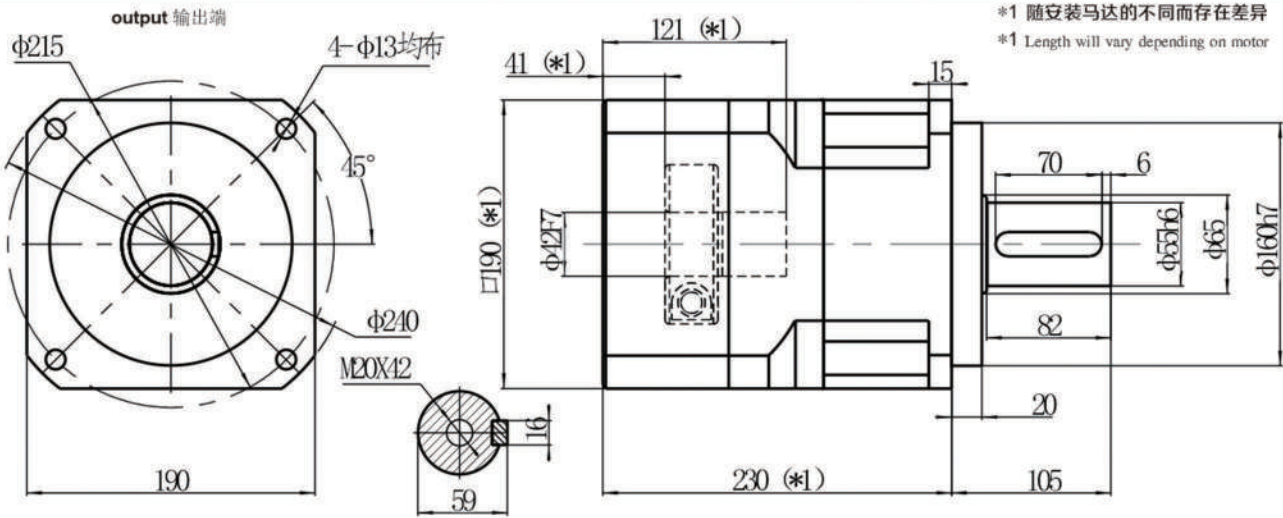
Ratio i
减速比

Backlash
背隙

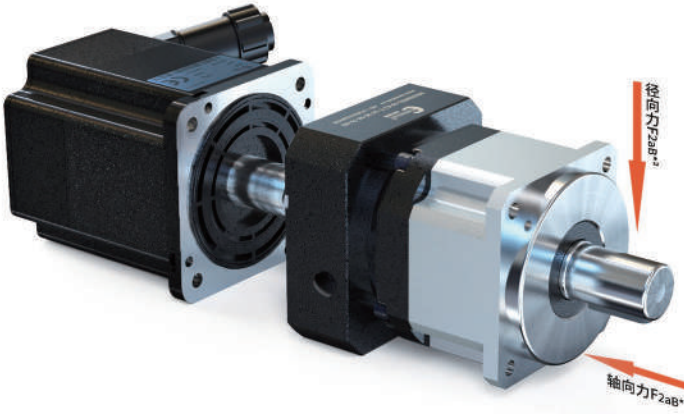
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤42/ Input ≤42



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|------|------|-----|-----|-----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩T2N Nominal output torque | Nm | 743 | 1780 | 1153 | 820 | 800 | 710 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8*T _{2N} 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T _{2N} 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1500 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 3000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤6 | | | | | |
| | P2 arcmin | ≤8 | | | | | |
| 噪音 Noise | dB(A) | ≤72 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 8500 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 5800 | | | | | |
| 效率 Efficiency | % | ≥97 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 31kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splined shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 180 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

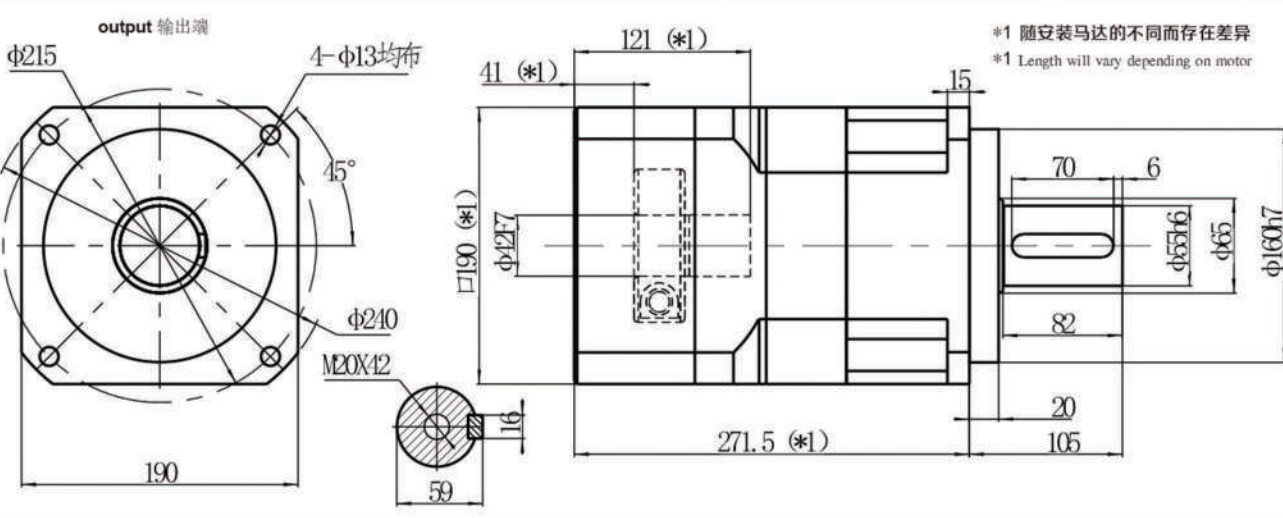
Ratio i
减速比

Backlash
背隙

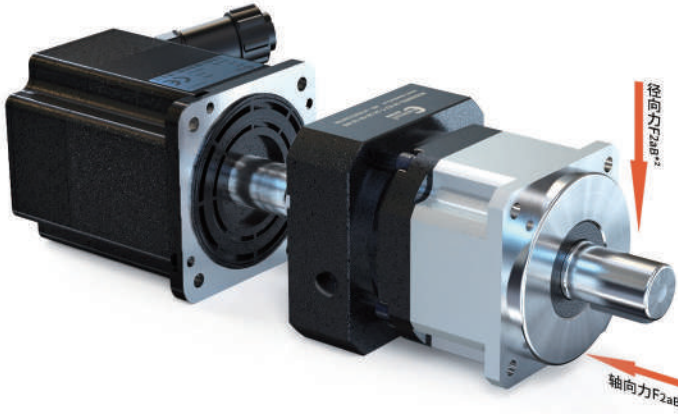
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤42/ Input ≤42



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|------|----|------|-----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩T2N Nominal output torque | Nm | 743 | 1780 | | 1153 | 800 | |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8*T _{2N} 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T _{2N} 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1500 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 3000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤8 | | | | | |
| | P2 arcmin | ≤10 | | | | | |
| 噪音 Noise | dB(A) | ≤72 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 8500 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 5800 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 88kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splined shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 220 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

Ratio i
减速比

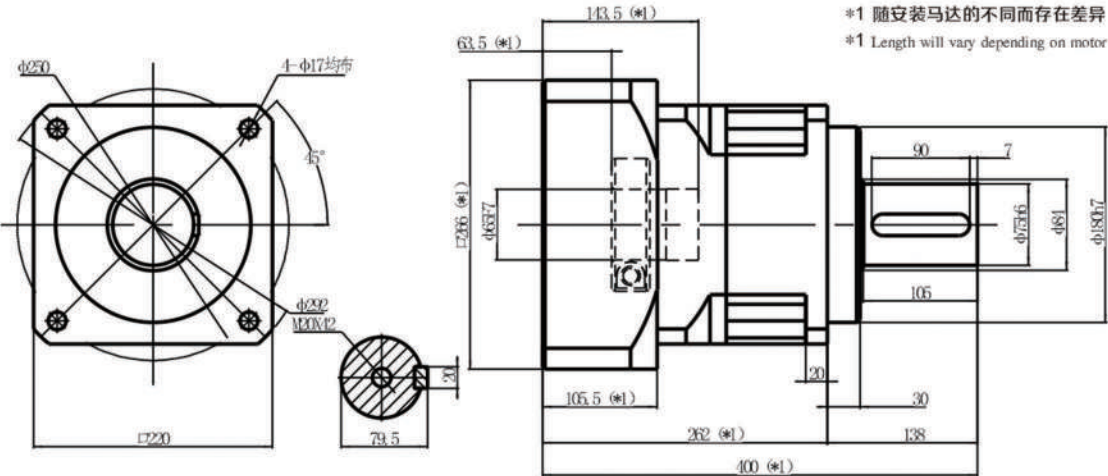
Backlash
背隙

Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

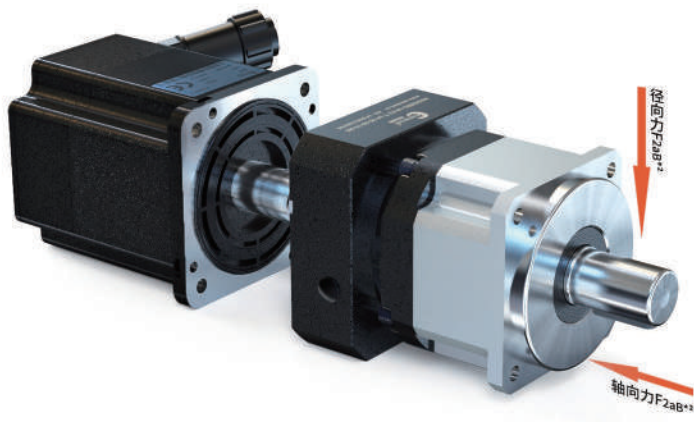
减速机外形尺寸图: 电机输入轴直径≤65/ Input ≤65

output 输出端



*1 随安装马达的不同而存在差异
*1 Length will vary depending on motor

减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|------|------|------|------|------|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩T2N Nominal output torque | Nm | 2042 | 2967 | 2062 | 1760 | 1350 | 1300 |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 2000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤10 | | | | | |
| | P2 arcmin | ≤16 | | | | | |
| 噪音 Noise | dB(A) | ≤75 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 9200 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 7200 | | | | | |
| 效率 Efficiency | % | ≥97 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 70kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IB 220 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

Ratio i
减速比

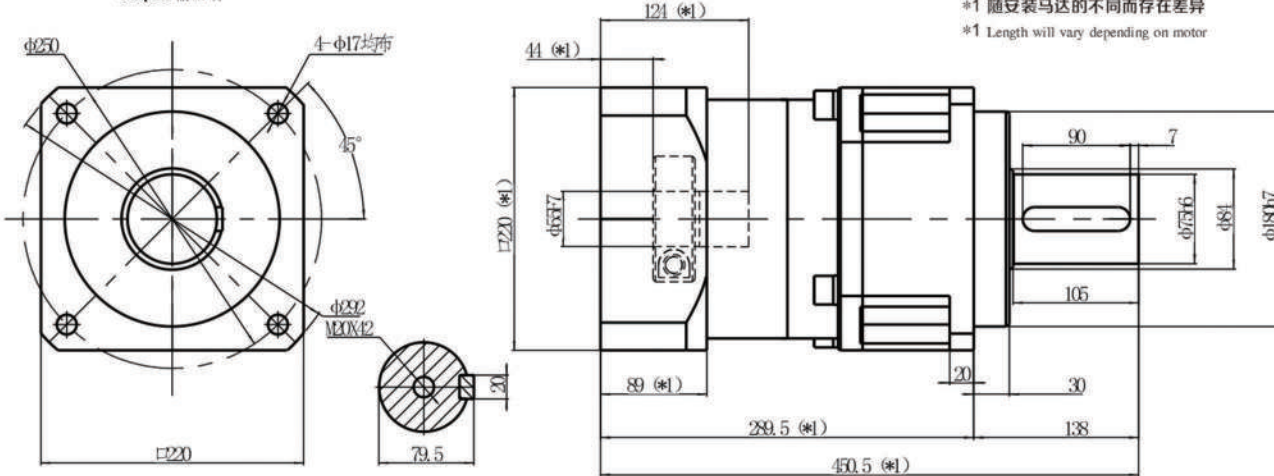
Backlash
背隙

Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

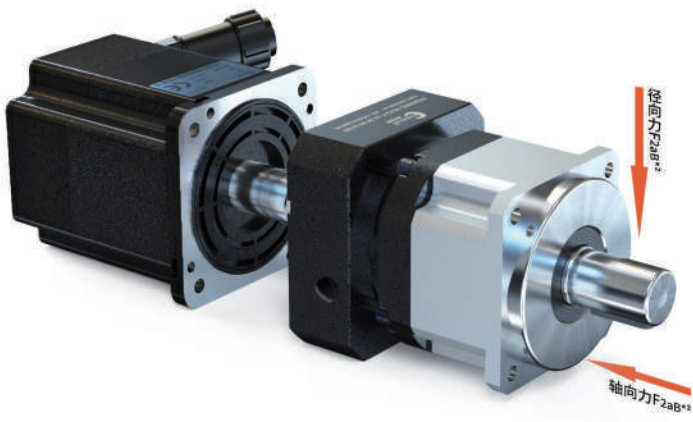
减速机外形尺寸图: 电机输入轴直径≤65/ Input ≤65

output 输出端



*1 随安装马达的不同而存在差异
*1 Length will vary depending on motor

减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|------|----|------|------|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩T2N Nominal output torque | Nm | 2042 | 2967 | | 2062 | 1350 | |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 2000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤12 | | | | | |
| | P2 arcmin | ≤18 | | | | | |
| 噪音 Noise | dB(A) | ≤75 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 9200 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 7200 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 88kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂


减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

IBR 减速机性能资料
Speed reducer performance data

精密行星减速机综合性能参数
Comprehensive performance parameters of precision planetary reducer

NEWSTART
纽氏达特
Precision Planetary Gear Transmission System

NEWSTART
纽氏达特
Precision Planetary Gear Transmission System

精密行星减速机综合性能参数
Comprehensive performance parameters of precision planetary reducer

IBR 减速机性能资料
Speed reducer performance data

减速机性能资料/ Speed reducer performance data

| 规格 | 节数 | 减速比 | IBR042 | IBR060 | IBR090 | IBR115 | IBR142 | IBR180 | IBR220 | |
|--|---|------|--|--|--------|--------|--------|--------|--------|--|
| 额定承载扭矩T _{2N} Nominal output torque | 1 | 3 | 13 | 35 | 100 | 190 | 440 | 743 | 2042 | |
| | | 4 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | |
| | | 5 | 17 | 45 | 115 | 245 | 635 | 1152.5 | 2062 | |
| | | 6 | 12 | 40 | 105 | 240 | 500 | 820 | 1760 | |
| | | 8 | 12 | 38 | 95 | 210 | 450 | 800 | 1350 | |
| | | 10 | | 32 | 86 | 196 | 400 | 710 | 1300 | |
| | 2 | 9 | 13 | 35 | 100 | 190 | 440 | 743 | 2042 | |
| | | 12 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | |
| | | 15 | 17 | 45 | 115 | 245 | 635 | 1152.5 | 2062 | |
| | | 16 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | |
| | | 20 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | |
| | | 25 | 17 | 45 | 115 | 245 | 635 | 1152.5 | 2062 | |
| | | 30 | 17 | 45 | 115 | 245 | 635 | 1152.5 | 2062 | |
| | | 32 | 18 | 50 | 120 | 250 | 770 | 1780 | 2967 | |
| | | 40 | 17 | 45 | 115 | 245 | 635 | 1152.5 | 2062 | |
| | | 50 | 17 | 45 | 115 | 245 | 635 | 1152.5 | 2062 | |
| | | 64 | 12 | 38 | 95 | 210 | 450 | 800 | 1350 | |
| | | 80 | 12 | 38 | 95 | 210 | 450 | 800 | 1350 | |
| | ≥3 | ≥100 | 3级减速以上的减速机详细参数，请详询工厂客服，具体参数以外形图纸为准。 Detailed parameters of gear reducer above grade 3deceleration,please consult factory customer service in detail. Specific parameters are based on the outline drawings. | | | | | | | |
| | 最大加速力矩 T2B Maximum acceleration torque | Nm | 1&2 | 1.8*T2N (1.8倍额定扭矩 1.8times rated torque) | | | | | | |
| | 急停扭矩 T2Not Sudden stop torque | Nm | 1&2 | 3*T2N (3倍额定扭矩 3times rated torque) | | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1&2 | 3000 | 3000 | 3000 | 3000 | 2000 | 1500 | 1000 | |
| 最大输入转速 Maximum input speed | rpm | 1&2 | 6000 | 6000 | 6000 | 6000 | 4000 | 3000 | 2000 | |
| 精密背隙 Precision backlash | P1-arcmin | 1 | 12 | 10 | 10 | 10 | 10 | 10 | 12 | |
| | | 2 | 14 | 12 | 12 | 12 | 12 | 12 | 14 | |
| | P2-arcmin | 1 | 18 | 12 | 12 | 12 | 12 | 12 | 18 | |
| | | 2 | 20 | 14 | 14 | 14 | 14 | 14 | 20 | |
| 噪音 Noise | dB(A) | 1&2 | 60 | 63 | 65 | 68 | 70 | 72 | 75 | |
| 容许最大径向负载 Maximum radial load | N | 1&2 | 205 | 950 | 1600 | 2900 | 5700 | 8500 | 9200 | |
| 容许最大轴向负载 Maximum axial load | N | 1&2 | 340 | 740 | 1500 | 1950 | 3150 | 5800 | 7200 | |
| 效率 Efficiency | % | 1 | ≥97% | | | | | | | |
| | | 2 | ≥94% | | | | | | | |
| 使用温度 Use of temperature | ℃ | 1&2 | <-15℃~-+40℃> | | | | | | | |
| 使用寿命 Service life | h | 1&2 | ≥20000 | | | | | | | |
| 润滑 Lubrication | | 1&2 | 合成润滑脂（终身免保养） Synthetic grease (lifelong maintenance-free) | | | | | | | |

减速机性能资料/ Speed reducer performance data

IBR 转动惯量总表

| 惯性力矩 kgcm ² | | IBR042 | IBR060 | | | | IBR090 | | | IBR115 | | | IBR142 | | | IBR180 | IBR220 |
|---------------------------|----|--------|--------|------|------|------|--------|------|------|--------|------|------|--------|------|------|--------|--------|
| | 速比 | ≤φ8 | ≤φ8 | ≤φ14 | ≤φ19 | ≤φ14 | ≤φ19 | ≤φ24 | ≤φ19 | ≤φ24 | ≤φ35 | ≤φ24 | ≤φ35 | ≤φ42 | ≤φ55 | ≤φ65 | |
| 一段 | 3 | 0.09 | 0.31 | 0.39 | 0.58 | 2.12 | 2.45 | 4.2 | 6.74 | 8.34 | 15.4 | 23.1 | 27.5 | 40.7 | 68.9 | 135.4 | |
| | 4 | 0.09 | 0.27 | 0.34 | 0.53 | 1.89 | 2.22 | 4.2 | 5.49 | 7.08 | 14.2 | 18.5 | 22.9 | 36.1 | 68.9 | 135.4 | |
| | 5 | 0.09 | 0.25 | 0.32 | 0.51 | 1.8 | 2.13 | 4.2 | 5.02 | 6.61 | 13.7 | 16.9 | 21.2 | 34.5 | 68.9 | 135.4 | |
| | 7 | 0.09 | 0.23 | 0.31 | 0.5 | 1.73 | 2.06 | 4.2 | 4.65 | 6.24 | 13.3 | 15.5 | 19.5 | 33.1 | 68.9 | 135.4 | |
| | 8 | 0.09 | 0.23 | 0.31 | 0.5 | 1.71 | 2.04 | 4.2 | 4.65 | 6.14 | 13.2 | 15.2 | 19.5 | 32.8 | 68.9 | 135.4 | |
| | 10 | 0.09 | 0.23 | 0.3 | 0.49 | 1.69 | 2.02 | 4.2 | 4.46 | 6.05 | 13.1 | 14.6 | 19 | 32.3 | 68.9 | 135.4 | |
| | 9 | 0.09 | 0.07 | 0.11 | 0.26 | 0.41 | 0.6 | 2.1 | 2.58 | 4.7 | 7.2 | 8 | 15 | 20 | 23.4 | 68.9 | |
| 二段 | 12 | 0.09 | 0.07 | 0.11 | 0.26 | 0.41 | 0.6 | 2.1 | 2.58 | 4.7 | 7.2 | 8 | 15 | 20 | 23.4 | 68.9 | |
| | 15 | 0.09 | 0.07 | 0.11 | 0.26 | 0.46 | 0.6 | 2.1 | 2.58 | 4.7 | 7.2 | 8.88 | 15 | 20 | 23.4 | 68.9 | |
| | 16 | 0.09 | 0.07 | 0.11 | 0.26 | 0.4 | 0.65 | 2.1 | 2.79 | 4.91 | 7.2 | 7.8 | 15.9 | 20 | 23.4 | 68.9 | |
| | 20 | 0.09 | 0.06 | 0.11 | 0.26 | 0.4 | 0.6 | 2.1 | 2.53 | 4.65 | 7.2 | 7.75 | 15 | 20 | 23.4 | 68.9 | |
| | 25 | 0.09 | 0.06 | 0.11 | 0.26 | 0.4 | 0.6 | 2.1 | 2.51 | 4.64 | 7.2 | 8.68 | 15 | 20 | 23.4 | 68.9 | |
| | 30 | 0.09 | 0.06 | 0.11 | 0.26 | 0.4 | 0.6 | 2.1 | 2.2 | 4.33 | 7.2 | 7.75 | 13.6 | 20 | 23.4 | 68.9 | |
| | 32 | 0.09 | 0.05 | 0.11 | 0.26 | 0.4 | 0.6 | 2.1 | 2.2 | 4.62 | 7.2 | 6.5 | 14.7 | 20 | 23.4 | 68.9 | |
| | 40 | 0.09 | 0.06 | 0.11 | 0.26 | 0.4 | 0.6 | 2.1 | 2.48 | 4.61 | 7.2 | 6.5 | 13.6 | 20 | 23.4 | 68.9 | |
| | 50 | 0.09 | 0.06 | 0.11 | 0.26 | 0.32 | 0.5 | 2.1 | 2.18 | 4.31 | 7.2 | 6.5 | 13.6 | 20 | 23.4 | 68.9 | |
| | 64 | 0.09 | 0.06 | 0.11 | 0.26 | 0.32 | 0.5 | 2.1 | 2.18 | 4.31 | 7.2 | 6.5 | 13.6 | 20 | 23.4 | 68.9 | |
| | 80 | 0.09 | 0.06 | 0.11 | 0.26 | 0.32 | 0.5 | 2.1 | 2.18 | 4.31 | 7.2 | 6.5 | 13.6 | 20 | 23.4 | 68.9 | |

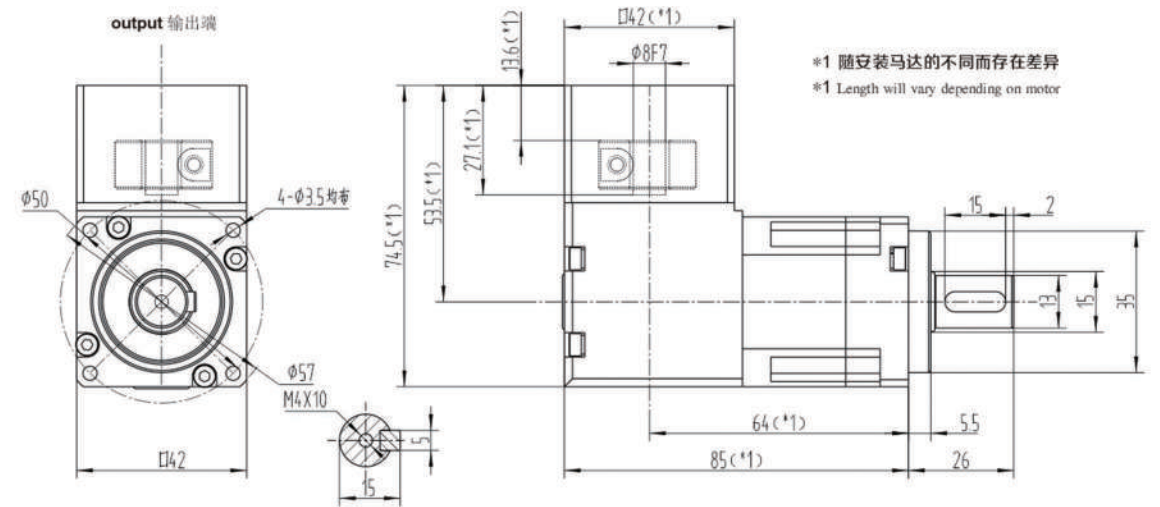


减速机订货选购说明/ Instructions for order and purchase of planetary reducer

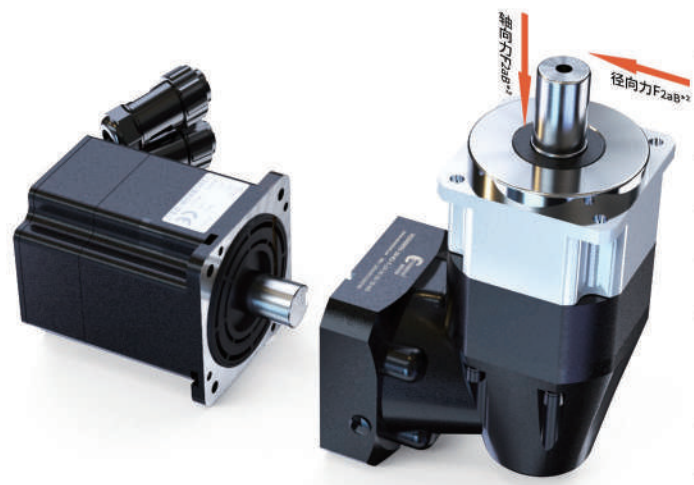
IBR 050 L1 - 5 - P2 - S2 + motor size

MODEL 系列代号 SIZE 规格 STAGE 段数(级数) Ratio i 减速比 Backlash 背隙 Output type 输出安装方式 伺服电机、交流电机、步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤8/ Input ≤8



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|---------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | |
|---|-----------|---|----|----|----|----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 13 | 18 | 17 | 12 | 12 |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤12 | | | | |
| | P2 arcmin | ≤18 | | | | |
| 噪音 Noise | dB (A) | ≤60 | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 205 | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 340 | | | | |
| 效率 Efficiency | % | ≥95 | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | |
| 重量 (大概) Weight | kg | 1kg | | | | |

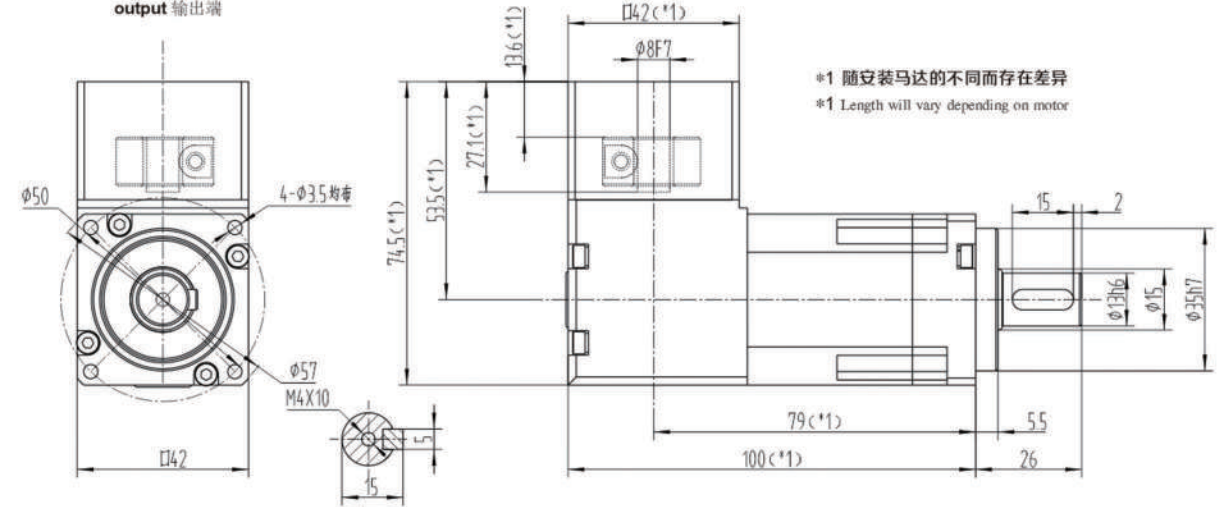
*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

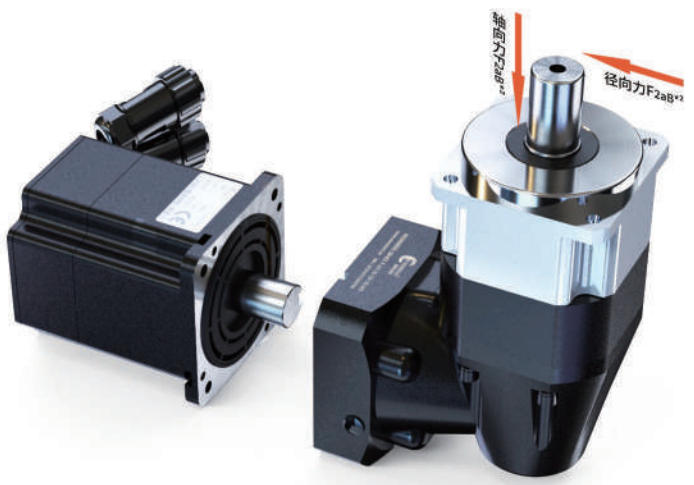
IBR 050 L2 - 25 - P2 - S2 + motor size

MODEL 系列代号 SIZE 规格 STAGE 段数(级数) Ratio i 减速比 Backlash 背隙 Output type 输出安装方式 伺服电机、交流电机、步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤8/ Input ≤8



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|---------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | | |
|---|-----------|---|----|----|----|----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 13 | 18 | | 17 | 12 | |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤14 | | | | | |
| | P2 arcmin | ≤20 | | | | | |
| 噪音 Noise | dB (A) | ≤60 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 205 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 340 | | | | | |
| 效率 Efficiency | % | ≥92 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 1.3kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 060 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

Ratio i
减速比

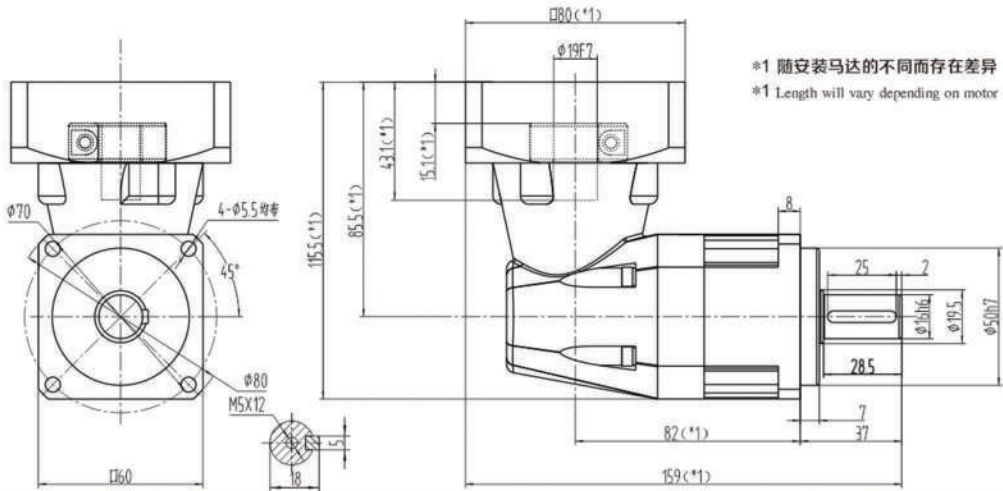
Backlash
背隙

Output type
输出安装方式

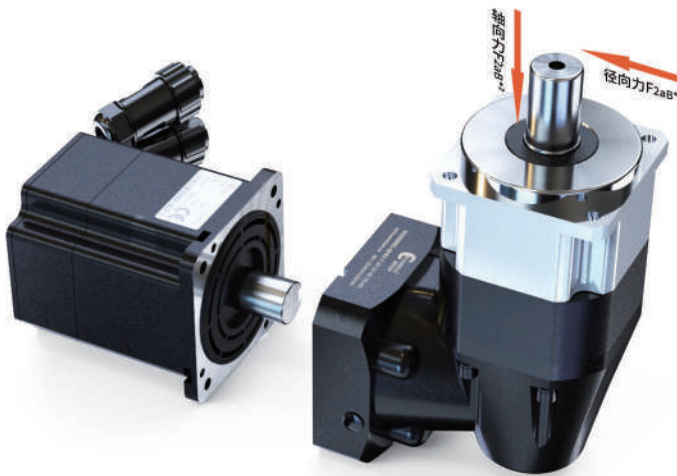
伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤19/ Input ≤19

output 输出端



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|------------------------------------|--------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | According to customers 根据客户要求定制 | |

| | | | | | | | |
|---|--------------|---|----|----|----|----|----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 35 | 50 | 45 | 40 | 38 | 32 |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤10 | | | | | |
| | P2 arcmin | ≤12 | | | | | |
| 噪音 Noise | dB (A) | ≤63 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 950 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 740 | | | | | |
| 效率 Efficiency | % | ≥95 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 2kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 060 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

Ratio i
减速比

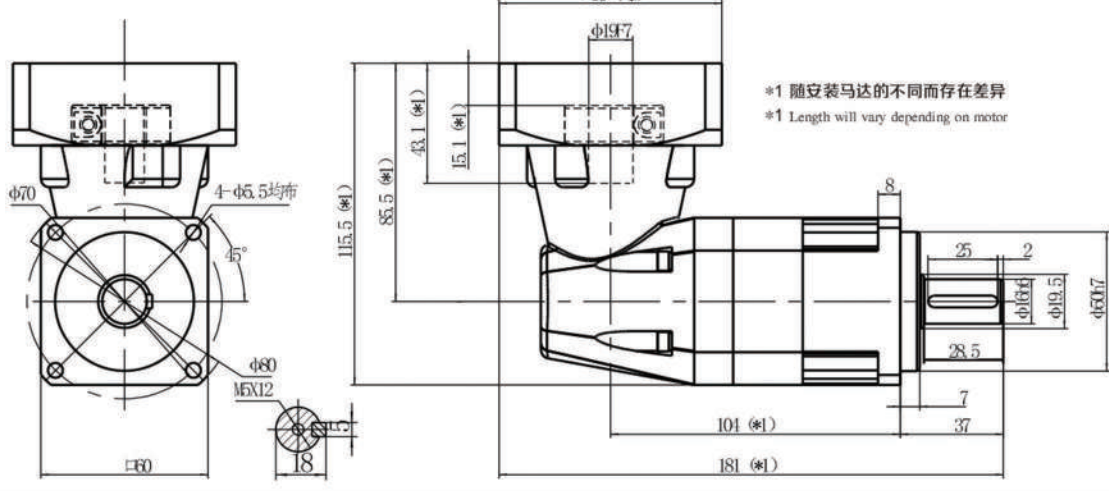
Backlash
背隙

Output type
输出安装方式

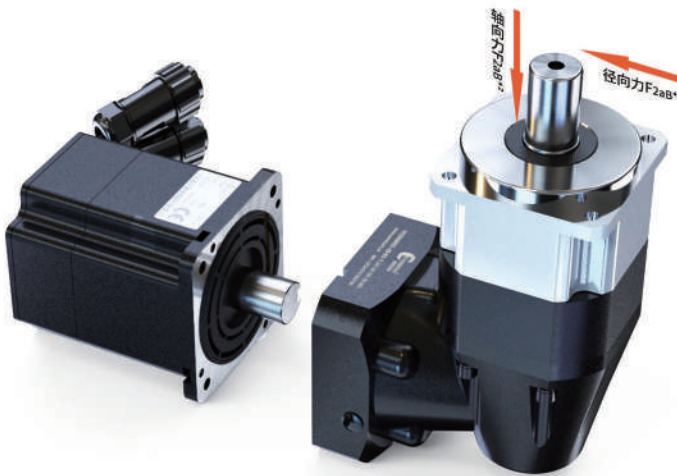
伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤19/ Input ≤19

output 输出端



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|------------------------------------|--------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | According to customers 根据客户要求定制 | |

| | | | | | | | |
|---|--------------|---|----|----|----|----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 35 | 50 | | 45 | 38 | |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8*T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3*T2N 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤12 | | | | | |
| | P2 arcmin | ≤14 | | | | | |
| 噪音 Noise | dB (A) | ≤63 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 950 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 740 | | | | | |
| 效率 Efficiency | % | ≥92 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 2.7kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 090 L1 - 5 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

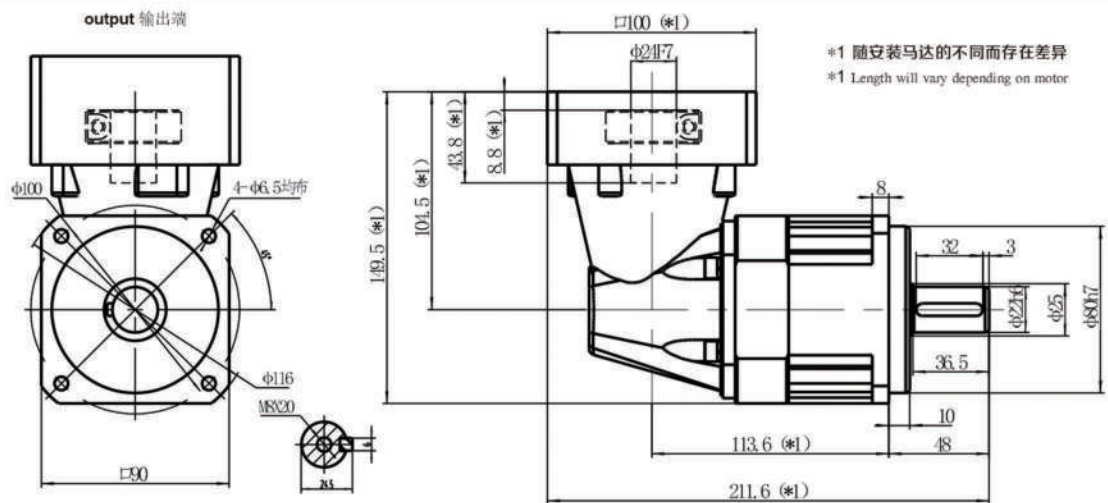
Ratio i
减速比

Backlash
背隙

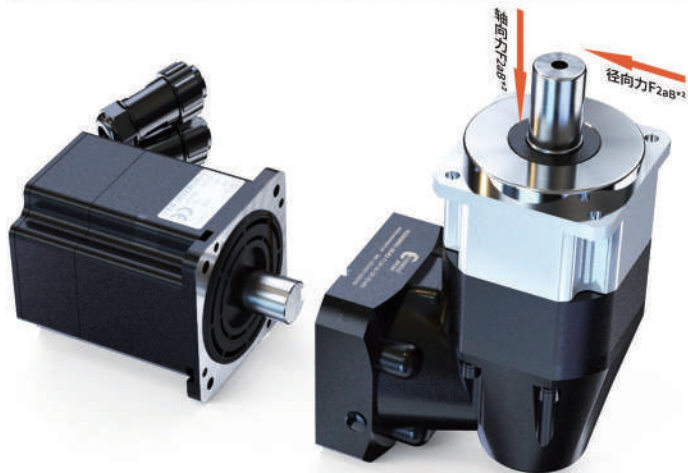
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤24/ Input ≤24



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|-----|-----|-----|----|----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 100 | 120 | 115 | 105 | 95 | 86 |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤6 | | | | | |
| | P2 arcmin | ≤8 | | | | | |
| 噪音 Noise | dB(A) | ≤60 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 1600 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1500 | | | | | |
| 效率 Efficiency | % | ≥97 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 2.35kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 090 L2 - 25 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

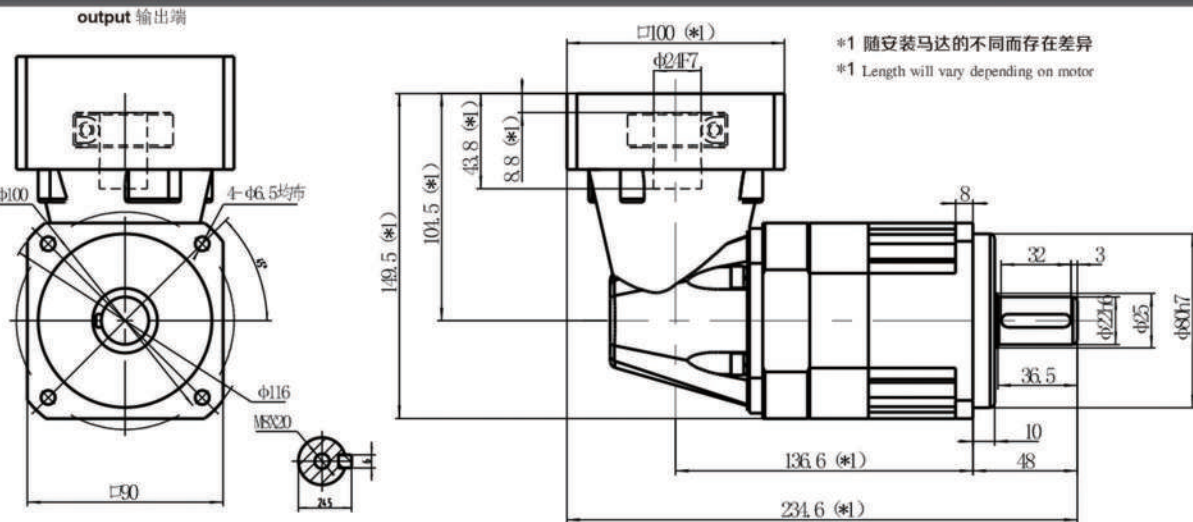
Ratio i
减速比

Backlash
背隙

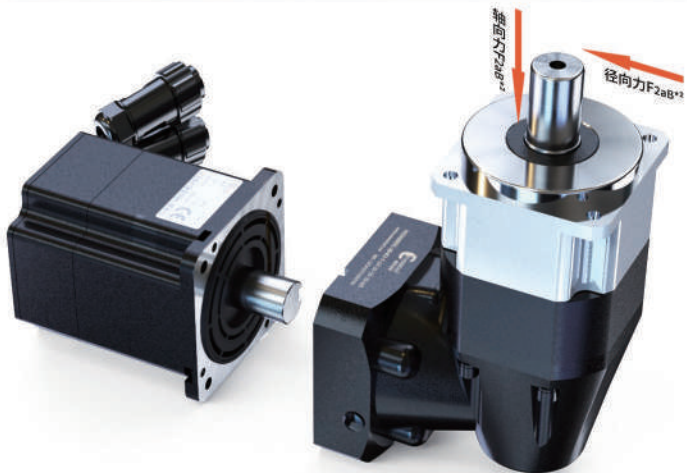
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤24/ Input ≤24



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|--------------|---|-----|----|-----|----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | | | 30 | 80 | |
| 额定输出扭矩 T2N Nominal output torque | Nm | 100 | 120 | | 115 | 95 | |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤8 | | | | | |
| | P2 arcmin | ≤10 | | | | | |
| 噪音 Noise | dB(A) | ≤60 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 1600 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1500 | | | | | |
| 效率 Efficiency | % | ≥94 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑脂 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 7.7kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 115 L1 - 5 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

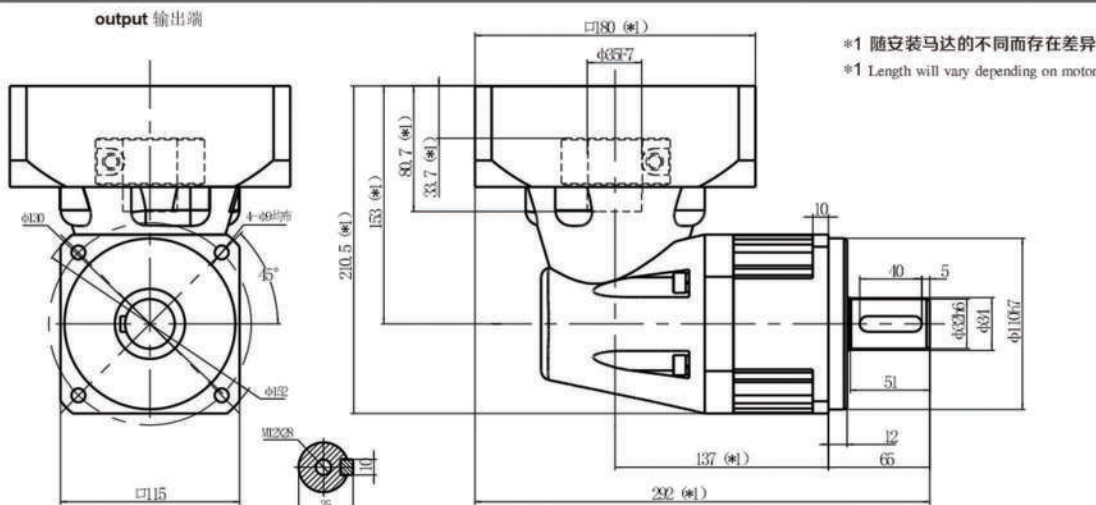
Ratio i
减速比

Backlash
背隙

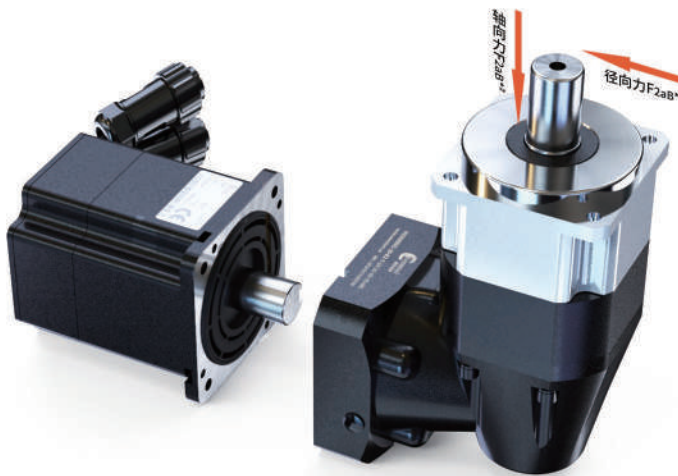
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤35/ Input ≤35



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|-----------|---|-----|-----|-----|-----|-----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 190 | 250 | 245 | 240 | 210 | 196 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8 * T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3 * T2N 3倍额定扭矩 1.8times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1-arcmin | ≤10 | | | | | |
| | P2-arcmin | ≤12 | | | | | |
| 噪音 Noise | dB (A) | ≤68 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 2900 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1950 | | | | | |
| 效率 Efficiency | % | ≥95 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 10.5kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 115 L2 - 25 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

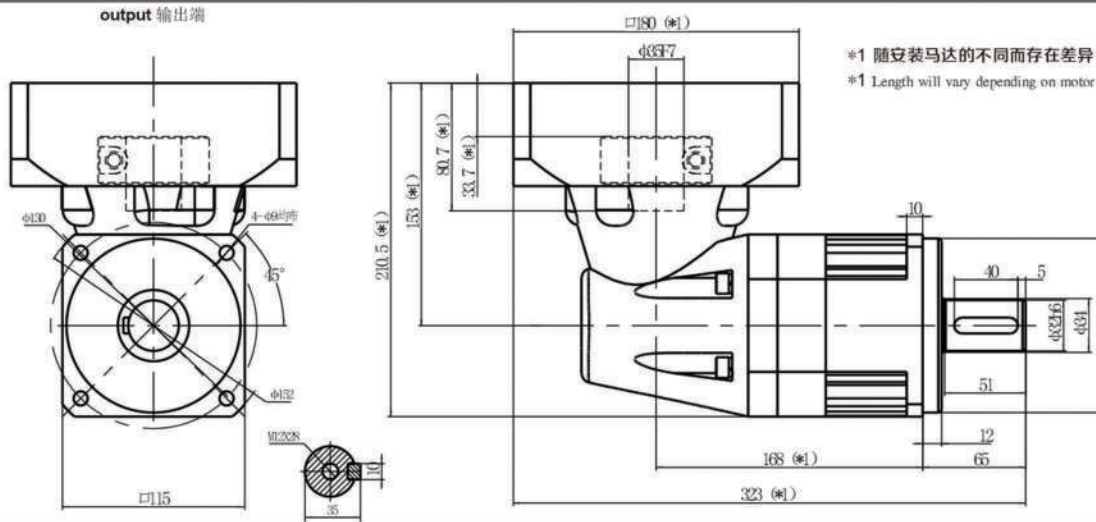
Ratio i
减速比

Backlash
背隙

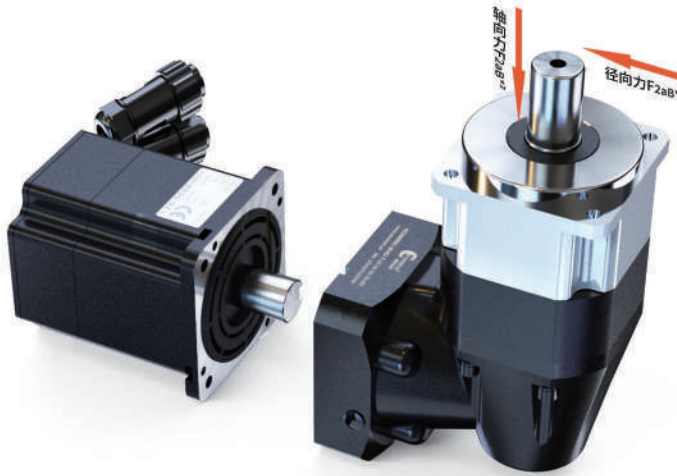
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤35/ Input ≤35



减速机性能参数/ Performance parameter



| | | | | | | | |
|---|-----------|---|-----|----|----|-----|-----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 190 | 250 | | | 245 | 210 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8 * T2N 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3 * T2N 3倍额定扭矩 1.8times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 3000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 6000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤12 | | | | | |
| | P2 arcmin | ≤14 | | | | | |
| 噪音 Noise | dB (A) | ≤68 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 2900 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1950 | | | | | |
| 效率 Efficiency | % | ≥92 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 13kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 142 L1 - 5 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

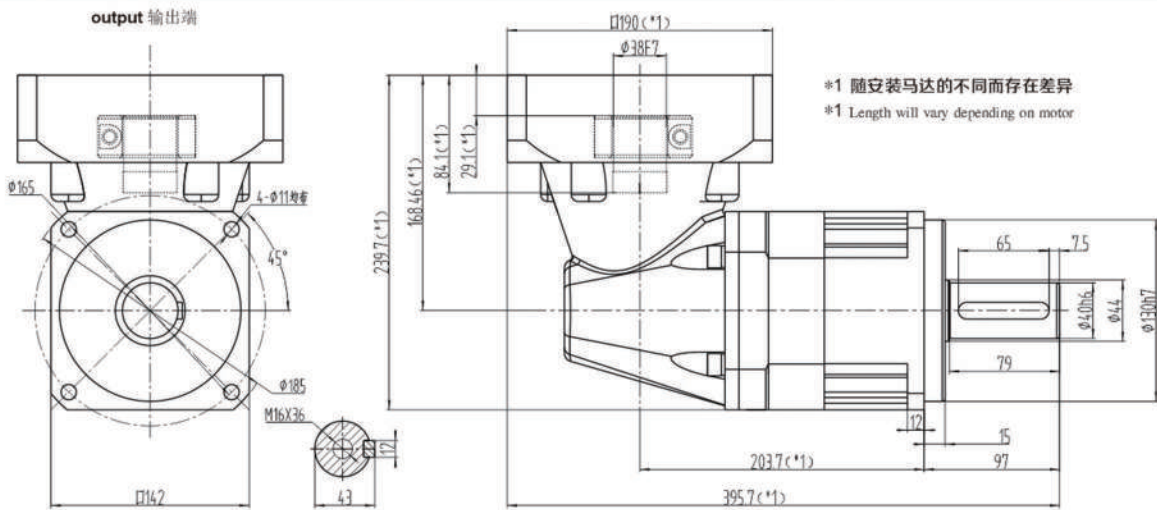
Ratio i
减速比

Backlash
背隙

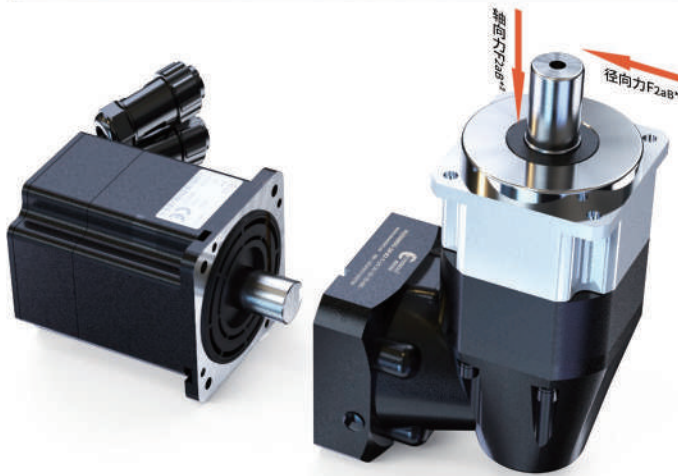
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤38/ Input ≤38



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | | |
|---|-----------|---|-----|-----|-----|-----|-----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 440 | 770 | 635 | 500 | 450 | 400 |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 2000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 4000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤10 | | | | | |
| | P2 arcmin | ≤12 | | | | | |
| 噪音 Noise | dB (A) | ≤70 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 2900 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1950 | | | | | |
| 效率 Efficiency | % | ≥95 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃ | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 Weight | kg | 21kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 142 L2 - 25 - P2 - S2

+

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

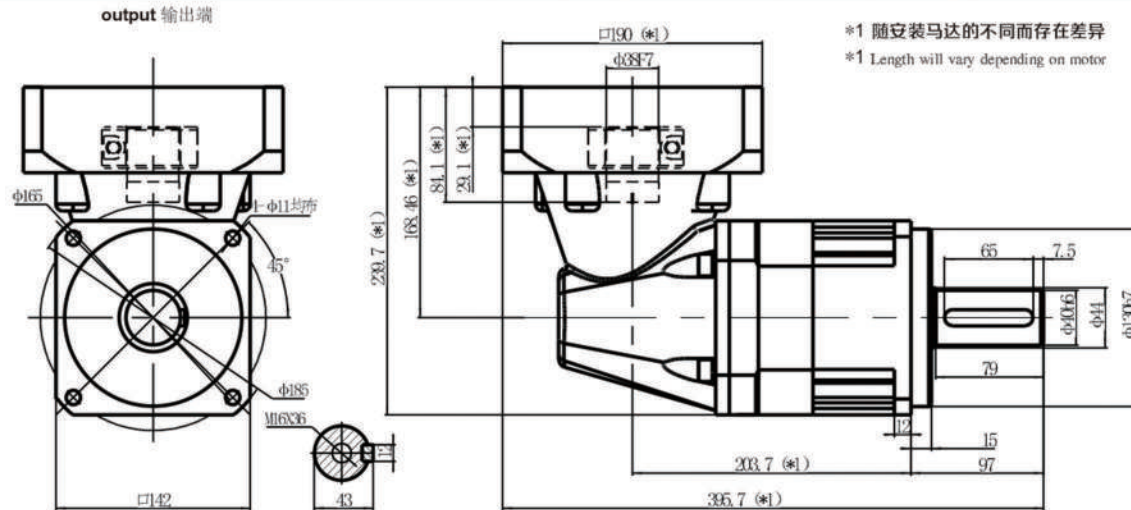
Ratio i
减速比

Backlash
背隙

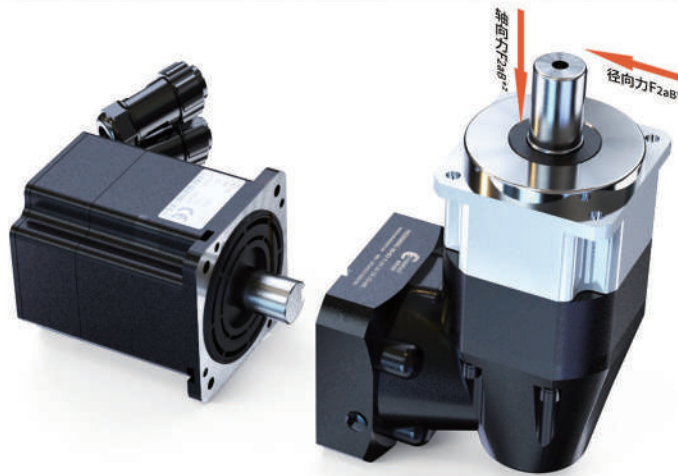
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤38/ Input ≤38



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|-----------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | | |
|---|-----------|---|-----|----|-----|-----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩 T2N Nominal output torque | Nm | 440 | 770 | | 635 | 450 | |
| 最大加速扭矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 2000 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 4000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤12 | | | | | |
| | P2 arcmin | ≤14 | | | | | |
| 噪音 Noise | dB (A) | ≤70 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 2900 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 1950 | | | | | |
| 效率 Efficiency | % | ≥92 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃ | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 26kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂



减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 180 L1 - 5 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

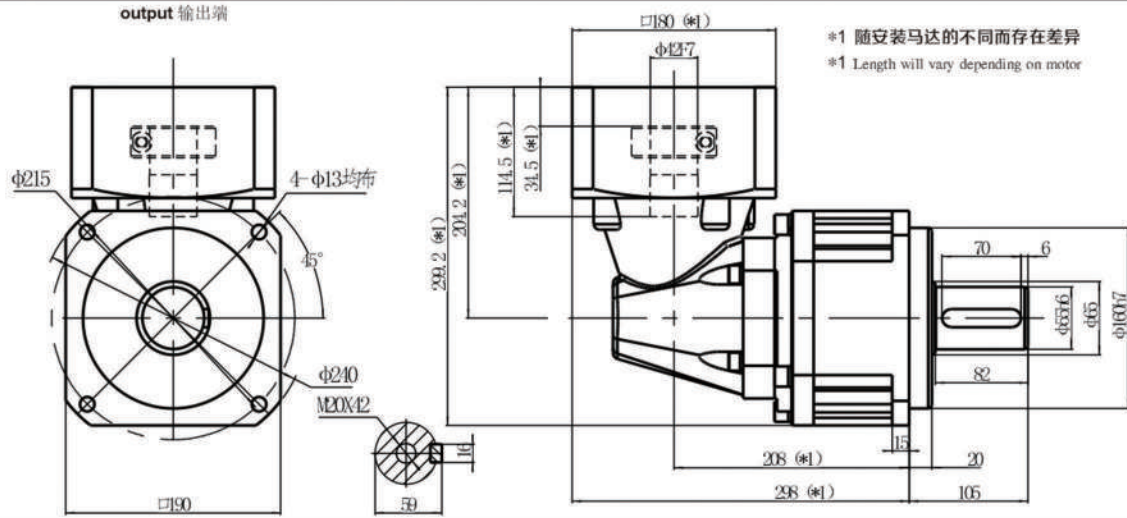
Ratio i
减速比

Backlash
背隙

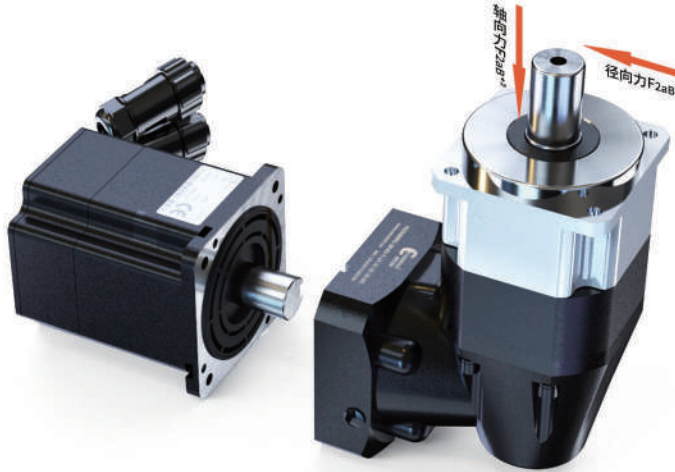
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤42/ Input ≤42



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|--------------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | | |
|---|--------------|---|------|------|-----|-----|-----|
| 减速比 Ratio *1 | i | 3 | 4 | 5 | 6 | 8 | 10 |
| 额定输出扭矩T2N Nominal output torque | Nm | 743 | 1780 | 1153 | 820 | 800 | 710 |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1500 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 3000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤10 | | | | | |
| | P2 arcmin | ≤12 | | | | | |
| 噪音 Noise | dB(A) | ≤72 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 8500 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 5800 | | | | | |
| 效率 Efficiency | % | ≥95 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 50kg | | | | | |

*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

IBR 180 L2 - 25 - P2 - S2

motor size

MODEL
系列代号

SIZE
规格

STAGE
段数(级数)

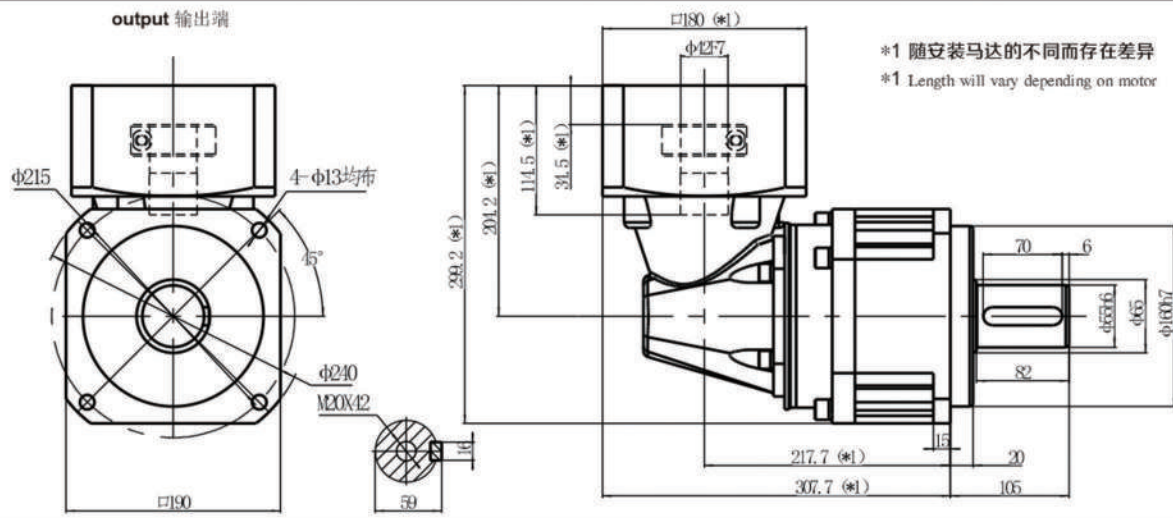
Ratio i
减速比

Backlash
背隙

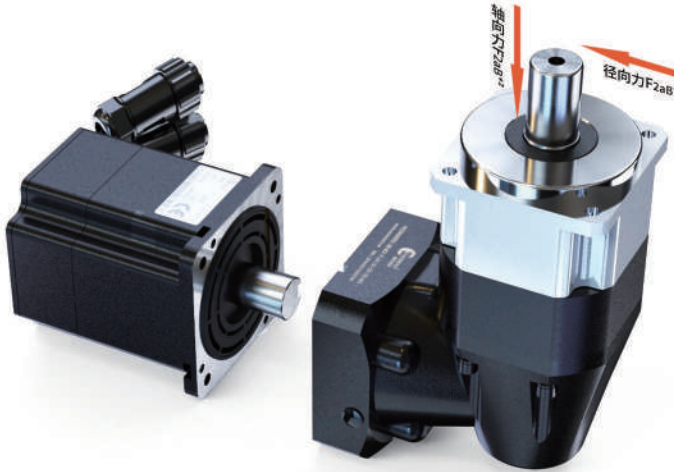
Output type
输出安装方式

伺服电机、交流电机、
步进电机、直流电机等

减速机外形尺寸图: 电机输入轴直径≤42/ Input ≤42



减速机性能参数/ Performance parameter



减速机输出的几种方式/ Output mode

| | | | | |
|--------------------|----|-------------------|-----|------------------------------------|
| Output Shaft 实轴 | S1 | Shaft 光轴 | S2 | Shaft with key 单键轴 |
| | S3 | Splinde shaft 花键轴 | S-T | Special shaft 特殊轴 |
| | | | | According to customers 根据客户要求定制 |

| | | | | | | | |
|---|--------------|---|------|------|-----|----|----|
| 减速比 Ratio *1 | i 推荐 | 9 | 12 | 16 | 15 | 25 | 64 |
| | i 不推荐 | | 20 | 32 | 40 | 50 | 80 |
| 额定输出扭矩T2N Nominal output torque | Nm | 743 | 1780 | 1153 | 800 | | |
| 最大加速力矩 T2B Maximum acceleration torque | Nm | 1.8倍额定扭矩 1.8times rated torque | | | | | |
| 急停扭矩 T2Not Sudden stop torque | Nm | 3倍额定扭矩 3times rated torque | | | | | |
| 额定输入转速 Nominal input speed | rpm | 1500 | | | | | |
| 最大输入转速 Maximum input speed | rpm | 3000 | | | | | |
| 精密背隙 Precision backlash | P1 arcmin | ≤12 | | | | | |
| | P2 arcmin | ≤14 | | | | | |
| 噪音 Noise | dB(A) | ≤72 | | | | | |
| 容许最大径向负载 *2 Maximum radial load | N | 8500 | | | | | |
| 容许最大轴向负载 *2 Maximum axial load | N | 5800 | | | | | |
| 效率 Efficiency | % | ≥92 | | | | | |
| 使用环境温度 Use of temperature | ℃ | <-15℃~+40℃> | | | | | |
| 使用寿命 Service life | h | ≥20000 | | | | | |
| 润滑 Lubrication *3 | | 合成润滑油 (终身免保养) Synthetic grease (lifelong maintenance-free) | | | | | |
| 重量 (大概) Weight | kg | 60kg | | | | | |

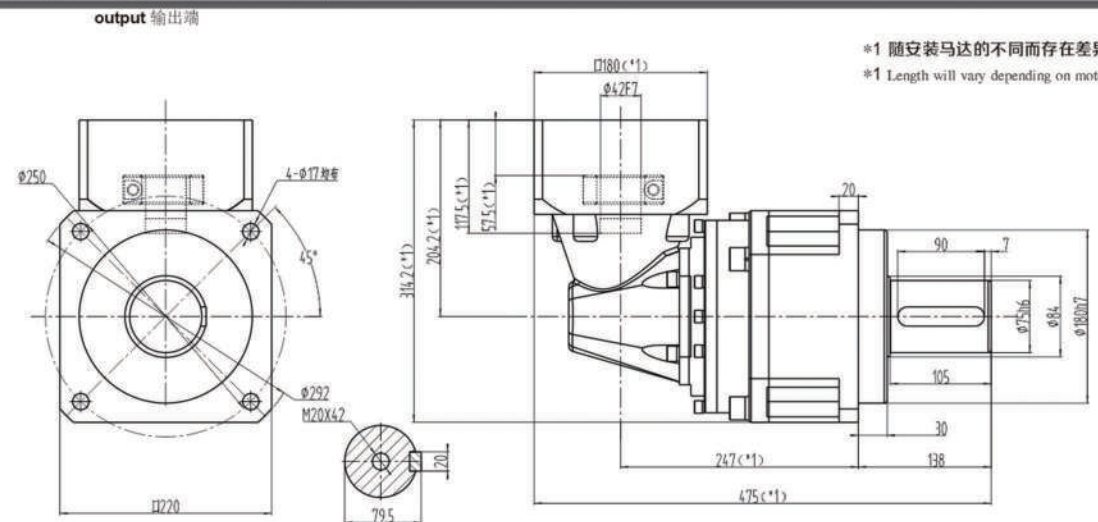
*1.减速比i=N_{in}/N_{out} *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

减速机订货选购说明/ Instructions for order and purchase of planetary reducer

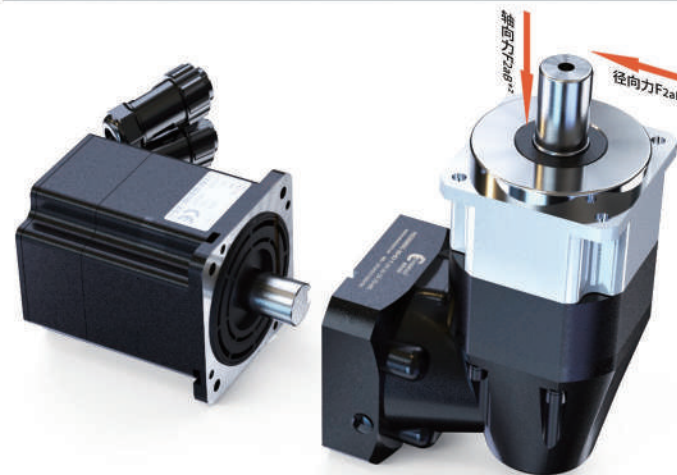
motor size

伺服电机、交流电机、
步进电机、直流电机等

■ 减速机外形尺寸图：电机输入轴直径 ≤ 55 / Input ≤ 55



■ 减速机性能参数/ Performance parameter



■ 减速机输出的几种方式/ Output mode

*1.减速比 $i=N_{in}/N_{out}$ *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂

*1.减速比 $i=N_{in}/N_{out}$ *2.输出转速为100rpm时,作用于输出轴中心位置
*3.可定制高低温油脂