

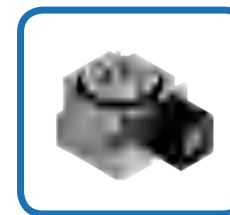


吉嘉精密科技有限公司 — 旋转平台产品目录

www.gigager.com

Catalog No.CN/EN-26-04

**G+® 吉嘉**



## 旋转平台产品目录

### ROTARY PLATFORM CATALOGUE

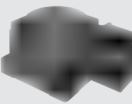
Catalog No. CN/EN-26-04



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|                                                                                     |                                                                       |                                                                                      |                                                                  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------|
|    | <b>GSH SERIES</b><br>海波齿旋转平台<br>Hypoid Rotary Tables<br>P002-007      |    | <b>GSB SERIES</b><br>中空旋转平台<br>Hollow Rotary Tables<br>P060-069  |
|    | <b>GSR SERIES</b><br>中空旋转平台<br>Hollow Rotary Tables<br>P008-018       |    | <b>GSG SERIES</b><br>中空旋转平台<br>Hollow Rotary Tables<br>P070-082  |
|  | <b>GSHR SERIES</b><br>海波齿旋转平台<br>Hypoid Rotary Tables<br>P019-023     |  | <b>GSZ SERIES</b><br>直角减速机<br>Right Angle Gearboxes<br>P092-095  |
|  | <b>GSA SERIES</b><br>中空旋转平台<br>Hollow Rotary Tables<br>P024-027       |  | <b>GMR SERIES</b><br>微型旋转轴<br>Mini Rotary Axes<br>P096-100       |
|  | <b>GR SERIES</b><br>蜗轮电动转台<br>Worm Electric Rotary Tables<br>P028-032 |  | <b>GMC SERIES</b><br>微型旋转轴<br>Tilting Rotary Axes<br>P101-104    |
|  | <b>GYH SERIES</b><br>中空分度盘<br>Hollow Indexing Tables<br>P033-038      |  | <b>GMA SERIES</b><br>微型旋转轴<br>Single Arm Rotary Axes<br>P105-108 |
|  | <b>GSN SERIES</b><br>中空旋转平台<br>Hollow Rotary Tables<br>P039-059       |  | <b>GML SERIES</b><br>微型旋转轴<br>Mini Rotary Axes<br>P109-112       |



## GSH 系列中空旋转平台 GSH Series Hypoid Rotary Tables



### 高精度，高效率

螺旋导程式海波齿相较于螺旋伞齿，拥有更高减速比、更高转矩、更高精度及更低磨损的优势，采用滑动方式旋转，传动精度可达 30 角秒，传动效率高达 96%，齿轮几何公差  $\leq 0.002\text{mm}$ ，达 JIS0 级标准。

### High Precision, High Efficiency

The spiral guide hypoid gear excels with higher ratio, torque, precision, and efficiency compared to spiral bevel. With sliding rotation, it achieves 30 arc seconds accuracy and 96% efficiency; Geometric tolerance is below 0.002mm, meeting JISO standard.

### 防护等级 IP65

可适应湿度较高的环境，防水防尘。

### IP65

Suitable for high humidity environment, waterproof and dust-proof.

### 高扭矩，高刚性

外壳采用合金钢材质，搭配大模数齿根设计，可满足大惯量负载的旋转需求。

### High Torque, High Rigidity

The housing is made of alloy steel material, with a large module tooth root design, which is suitable for the rotation requirements of large inertia loads.

### 寿命长

采用高硬度、高密度齿轮材料，精度寿命可达 30000 小时。

### Long Life-span

With high-hardness and high-density gear materials, the accuracy life can reach 30000hrs.

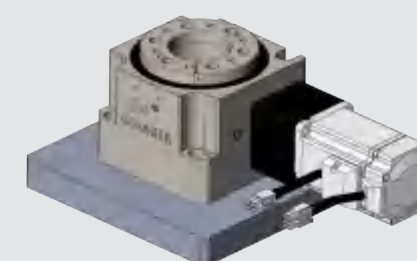
广泛应用于汽车传动系统、CNC 设备及机械手臂等行业。

Widely used in auto-mission system CNC and robot arm fields.

### 应用范例 Example



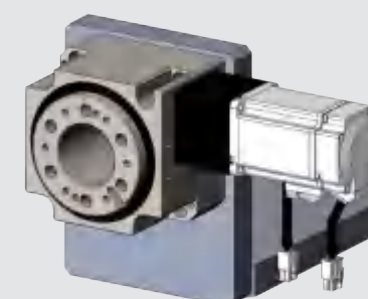
### ■安装方式 Installation



水平安装  
Horizontal Installation

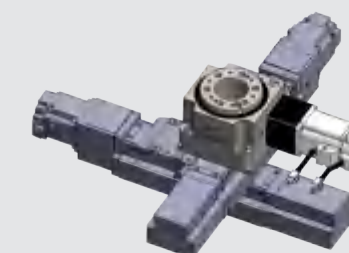


吊装  
Suspension Installation



侧装  
Vertical Installation

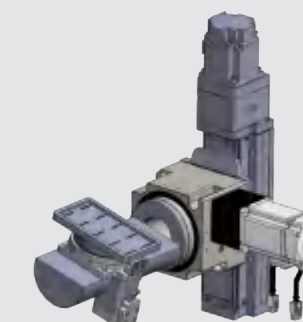
### ■安装范例 Example



结合 GXY 系列水平安装  
Combined with GXY Series



吊装范例  
Suspension Installation Example



侧装范例  
Vertical Installation Example

GSH

GSR

GSHR

GSA

GR

GYH

GSN

GSB

GSG

技术手册  
Technical  
Manual

GSZ

GMR

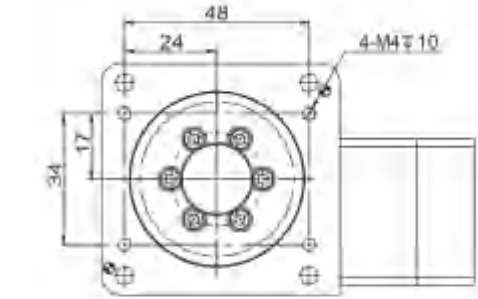
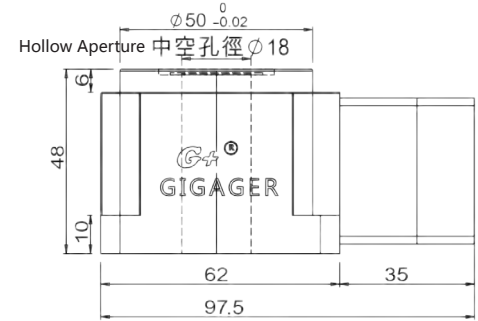
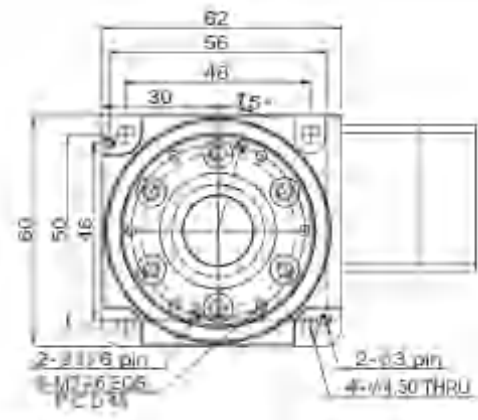
GMC

GMA

GML

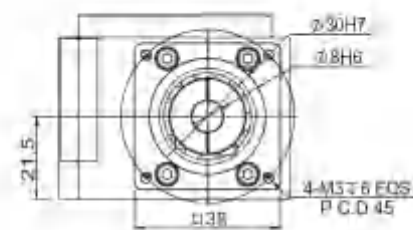
GSH60

| GSH         | 60      | - | 30K       | - | SV1                                                                                   |
|-------------|---------|---|-----------|---|---------------------------------------------------------------------------------------|
| 系列代码 Series | 规格 Size |   | 减速比 Ratio |   | 马达规格 Motor                                                                            |
|             | 60      |   |           |   |                                                                                       |
|             | 100     |   |           |   | SV1 : 伺服 Ø8 PCD45,M3<br>SV2 : 伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                    |
|             | 150     |   |           |   | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor      |
|             | 200     |   |           |   | ST1 : 步进 Ø5 PCD43.8,M3<br>ST2 : 步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                    |
|             |         |   |           |   | ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |



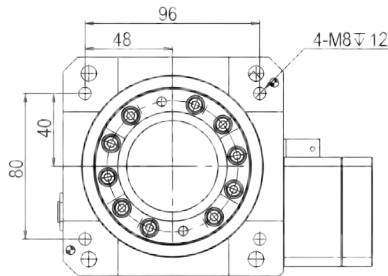
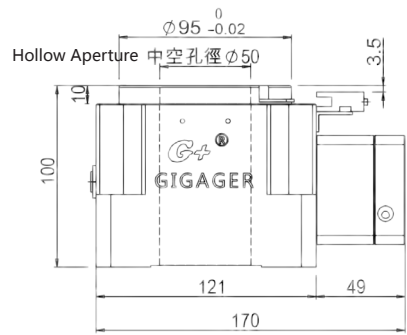
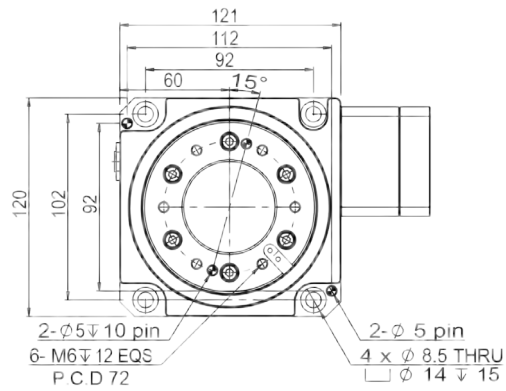
■ 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |
|----------------------------------------|--------------------------------|
| 容许转矩<br>Allowable Torque               | N.m 30                         |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m 5                          |
| 容许盘面转速<br>Allowable Table Speed        | rpm 90                         |
| 减速比<br>Gear Ratio                      | i 30                           |
| 重复定位精度<br>Repeatability                | arc-sec ≤ 10                   |
| 定位精度<br>Positioning Accuracy           | arc-sec ≤ 50                   |
| 容许轴向负载<br>Allowable Axial Load         | N 300                          |
| 旋转平台平面度<br>Table Flatness              | mm ≤ 0.01                      |
| 旋转平台同心度<br>Table Concentricity         | mm ≤ 0.01                      |
| 保护等级<br>Ingress Protection             | IP 54                          |
| 重量<br>Weight                           | kg 0.9                         |



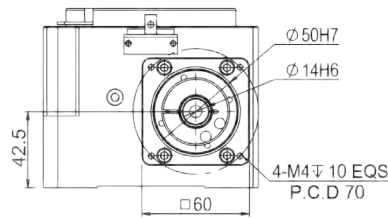
GSH100

| GSH         | 100     | - | 30K       | - | SV1                                                                                                                                                          |
|-------------|---------|---|-----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码 Series | 规格 Size |   | 减速比 Ratio |   | 马达规格 Motor                                                                                                                                                   |
|             | 60      |   |           |   |                                                                                                                                                              |
|             | 100     |   |           |   | SV1 : 伺服 Ø14 PCD70,M4<br>SV2 : 伺服 Ø14 PCD70,M5<br>SV3 : 伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                            |
|             | 150     |   |           |   | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|             | 200     |   |           |   | ST1 : 步进 Ø6.35 PCD66.67,M4<br>ST2 : 步进 Ø6.35 PCD70.7,M4<br>ST3 : 步进 Ø8 PCD70.7,M4<br>ST4 : 步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                         |
|             |         |   |           |   | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |



■ 技术参数 Technical Parameters

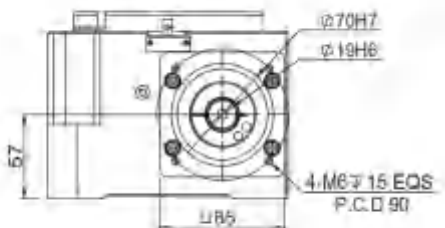
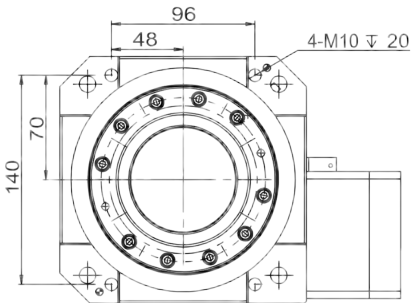
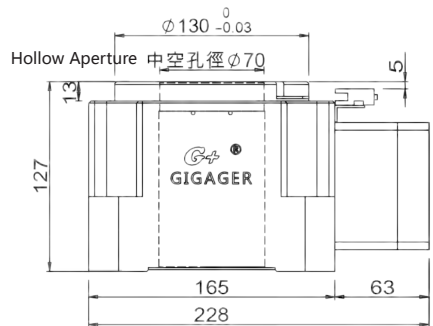
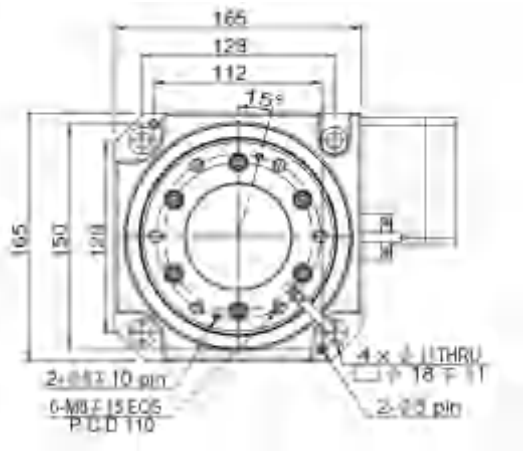
| 旋转平台轴承<br>Bearing of Rotary Table      | 圆锥滚子轴承<br>Tapered Roller Bearing |
|----------------------------------------|----------------------------------|
| 容许转矩<br>Allowable Torque               | N.m 115                          |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m 150                          |
| 容许盘面转速<br>Allowable Table Speed        | rpm 90                           |
| 减速比<br>Gear Ratio                      | i 30                             |
| 重复定位精度<br>Repeatability                | arc-sec ≤ 10                     |
| 定位精度<br>Positioning Accuracy           | arc-sec ≤ 50                     |
| 容许轴向负载<br>Allowable Axial Load         | N 2500                           |
| 旋转平台平面度<br>Table Flatness              | mm ≤ 0.01                        |
| 旋转平台同心度<br>Table Concentricity         | mm ≤ 0.01                        |
| 保护等级<br>Ingress Protection             | IP 65                            |
| 重量<br>Weight                           | kg 8.5                           |





GSH150

| GSH                                                                  | 150     | 30K       | SV1        |
|----------------------------------------------------------------------|---------|-----------|------------|
| 系列代码 Series                                                          | 规格 Size | 减速比 Ratio | 马达规格 Motor |
|                                                                      | 60      |           |            |
|                                                                      | 100     |           |            |
|                                                                      | 150     |           |            |
|                                                                      | 200     |           |            |
| SV1 : 伺服 Ø19 PCD90,M5<br>SV2 : 伺服 Ø19 PCD90,M6<br>适配各品牌 750W AC 伺服马达 |         |           |            |
| ST1 : 步进 Ø14 PCD98.4,M5<br>ST2 : 步进 Ø14 PCD98.4,M6<br>适配各品牌 86 型步进马达 |         |           |            |

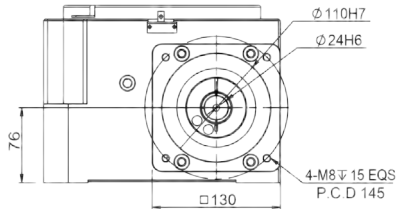
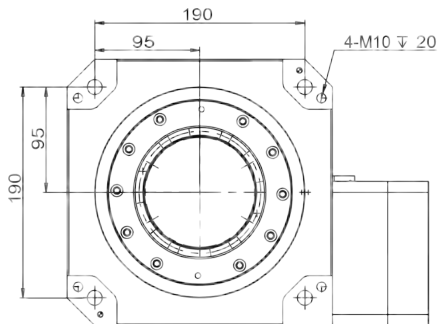
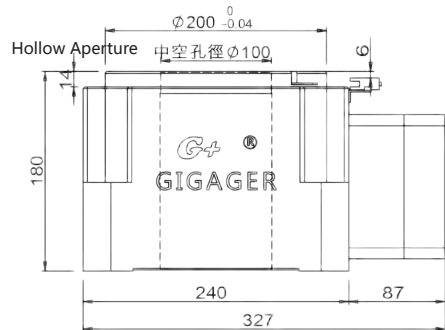
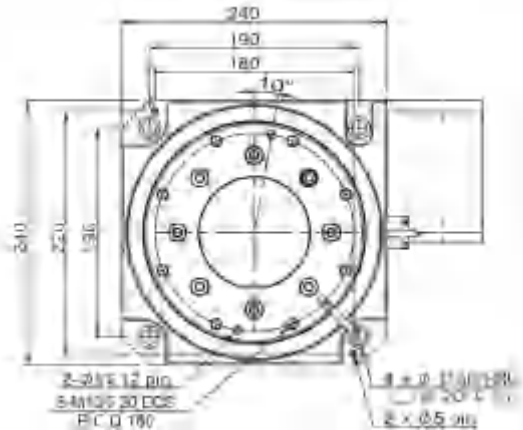


■ 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table      |         | 圆锥滚子轴承<br>Tapered Roller Bearing |
|----------------------------------------|---------|----------------------------------|
| 容许转矩<br>Allowable Torque               | N.m     | 220                              |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m     | 400                              |
| 容许盘面转速<br>Allowable Table Speed        | rpm     | 90                               |
| 减速比<br>Gear Ratio                      | i       | 30                               |
| 重复定位精度<br>Repeatability                | arc-sec | ≤ 10                             |
| 定位精度<br>Positioning Accuracy           | arc-sec | ≤ 50                             |
| 容许轴向负载<br>Allowable Axial Load         | N       | 6000                             |
| 旋转平台平面度<br>Table Flatness              | mm      | ≤ 0.01                           |
| 旋转平台同心度<br>Table Concentricity         | mm      | ≤ 0.01                           |
| 保护等级<br>Ingress Protection             | IP      | 65                               |
| 重量<br>Weight                           | kg      | 18                               |

GSH200

| GSH                                                                                   | 200     | 30K       | SV1        |
|---------------------------------------------------------------------------------------|---------|-----------|------------|
| 系列代码 Series                                                                           | 规格 Size | 减速比 Ratio | 马达规格 Motor |
|                                                                                       | 60      |           |            |
|                                                                                       | 100     |           |            |
|                                                                                       | 150     |           |            |
|                                                                                       | 200     |           |            |
| SV1 : 伺服 Ø22 PCD145,M8<br>SV2 : 伺服 Ø24 PCD145,M8<br>适配各品牌 1000W AC 伺服马达               |         |           |            |
| SV1: Servo Ø22 PCD145,M8<br>SV2: Servo Ø24 PCD145,M8<br>Suit for 1000W AC Servo Motor |         |           |            |



■ 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table      |         | 圆锥滚子轴承<br>Tapered Roller Bearing |
|----------------------------------------|---------|----------------------------------|
| 容许转矩<br>Allowable Torque               | N.m     | 450                              |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m     | 800                              |
| 容许盘面转速<br>Allowable Table Speed        | rpm     | 90                               |
| 减速比<br>Gear Ratio                      | i       | 30                               |
| 重复定位精度<br>Repeatability                | arc-sec | ≤ 10                             |
| 定位精度<br>Positioning Accuracy           | arc-sec | ≤ 50                             |
| 容许轴向负载<br>Allowable Axial Load         | N       | 10000                            |
| 旋转平台平面度<br>Table Flatness              | mm      | ≤ 0.01                           |
| 旋转平台同心度<br>Table Concentricity         | mm      | ≤ 0.01                           |
| 保护等级<br>Ingress Protection             | IP      | 65                               |
| 重量<br>Weight                           | kg      | 57                               |

**GSR60**

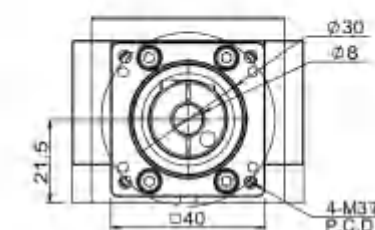
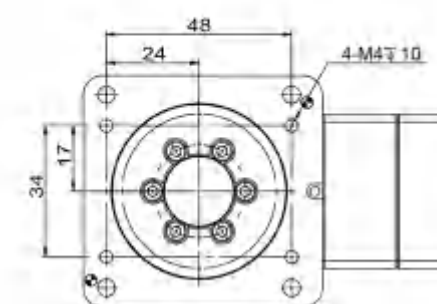
| GSR            |            | 60                            | □ | - | 10K          | -                                                                                     | SV1 |  |
|----------------|------------|-------------------------------|---|---|--------------|---------------------------------------------------------------------------------------|-----|--|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                  |   |   | 减速比<br>Ratio | 马达规格<br>Motor                                                                         |     |  |
|                | 60         | 无：标准型<br>M：行星式                |   |   |              | SV1：伺服 Ø8 PCD45,M3<br>SV2：伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                        |     |  |
|                | 85         |                               |   |   |              | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor      |     |  |
|                | 110        | None：Standard<br>M: Planetary |   |   |              |                                                                                       |     |  |
|                | 150        |                               |   |   |              |                                                                                       |     |  |
|                | 200        |                               |   |   |              |                                                                                       |     |  |
|                |            |                               |   |   |              | ST1：步进 Ø5 PCD43.8,M3<br>ST2：步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                        |     |  |
|                |            |                               |   |   |              | ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |     |  |



62  
56  
48  
30  
15°  
60  
50  
46

2-φ3.6 pin  
6-M356EQS  
R.C.D. 4

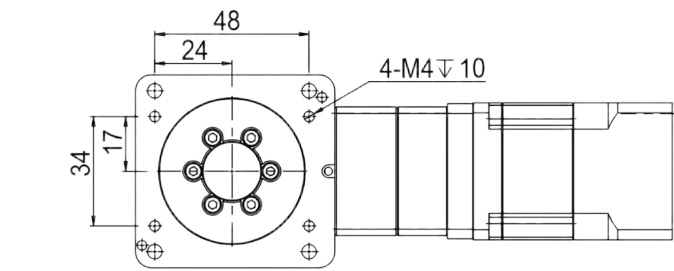
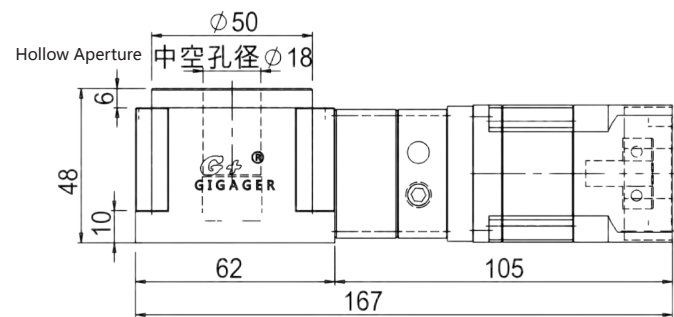
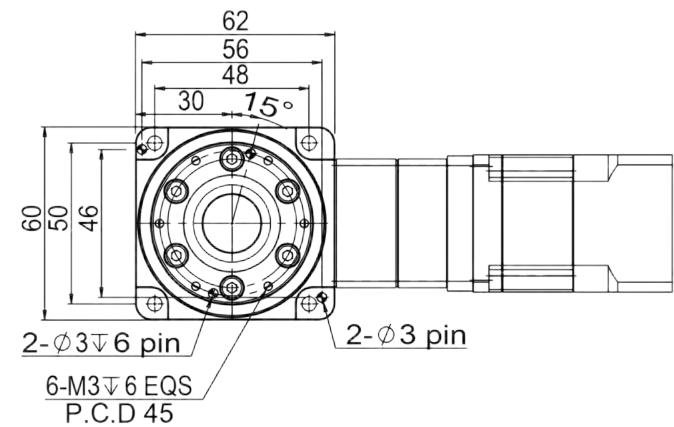
2-φ3 pin  
4-φ4.5 THRU



| 旋轉平台轉承<br>Bearing of Rotary Table      | 交叉滾子轉承<br>Cross Roller Bearing |
|----------------------------------------|--------------------------------|
| 容許轉矩<br>Allowable Torque               | N·m                            |
| 容許翻轉力矩<br>Allowable Overturning Moment | N·m                            |
| 容許迴轉速度<br>Allowable Table Speed        | rpm                            |
| 齒輪比<br>Gear Ratio                      | 1                              |
| 重複定位精度<br>Repeatability                | mm/sec                         |
| 定位精度<br>Positioning Accuracy           | μm/min                         |
| 容許總負載<br>Allowable Total Load          | kg                             |
| 旋轉平台間隙<br>Table Runout                 | mm                             |
| 旋轉平台同心度<br>Table Concentricity         | mm                             |
| 防塵保護<br>Ingress Protection             | IP                             |
| 重量<br>Weight                           | kg                             |

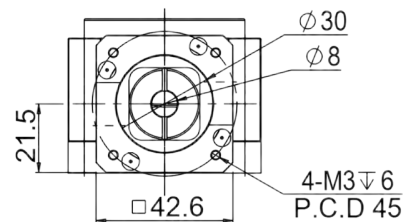
GSR60M

| GSR            | 60         | M                            | - 30K -      | SV1                                                                                 |
|----------------|------------|------------------------------|--------------|-------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                 | 减速比<br>Ratio | 马达规格<br>Motor                                                                       |
|                | 60         | 无：标准型<br>M：行星式               |              | SV1：伺服 Ø8 PCD45,M3<br>SV2：伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                      |
|                | 85         |                              |              |                                                                                     |
|                | 110        |                              |              |                                                                                     |
|                | 150        |                              |              |                                                                                     |
|                | 200        | None：Standard<br>M：Planetary |              | ST1：步进 Ø5 PCD43.8,M3<br>ST2：步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                      |
|                |            |                              |              | ST1：Stepper Ø5 PCD43.8,M3<br>ST2：Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |



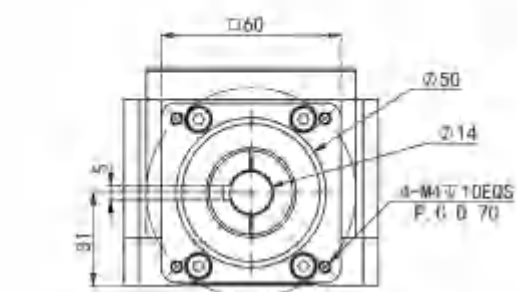
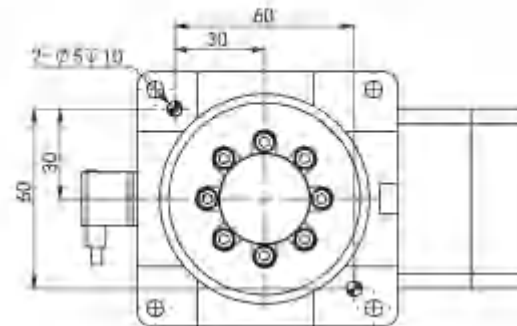
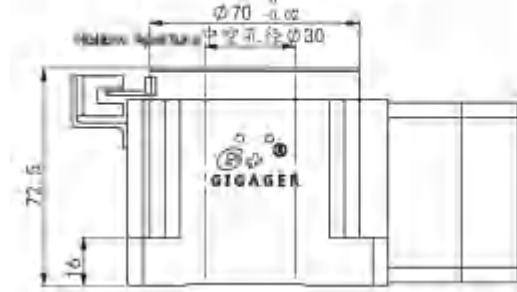
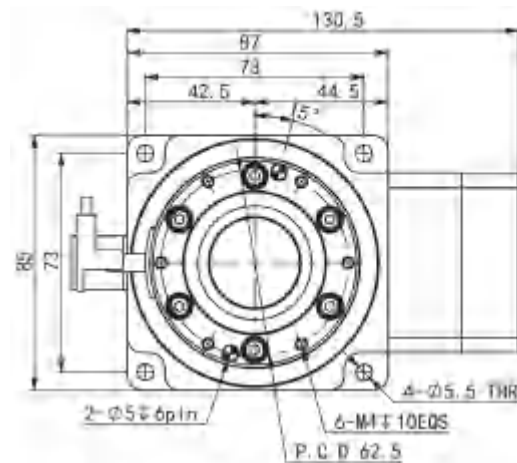
■ 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |
|----------------------------------------|--------------------------------|
| 容许转矩<br>Allowable Torque               | N.m                            |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                            |
| 容许盘面转速<br>Allowable Table Speed        | rpm                            |
| 减速比<br>Gear Ratio                      | i                              |
| 重复定位精度<br>Repeatability                | arc-sec                        |
| 定位精度<br>Positioning Accuracy           | arc-min                        |
| 容许轴向负载<br>Allowable Axial Load         | N                              |
| 旋转平台平面度<br>Table Flatness              | mm                             |
| 旋转平台同心度<br>Table Concentricity         | mm                             |
| 保护等级<br>Ingress Protection             | IP                             |
| 重量<br>Weight                           | kg                             |



GSR85

| GSR            | 85         | □                            | - 10K -      | SV1                                                                                                                                                      |
|----------------|------------|------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                 | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                            |
|                | 60         | 无：标准型<br>M：行星式               |              | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                              |
|                | 85         |                              |              |                                                                                                                                                          |
|                | 110        |                              |              |                                                                                                                                                          |
|                | 150        |                              |              |                                                                                                                                                          |
|                | 200        | None：Standard<br>M：Planetary |              | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                             |
|                |            |                              |              | ST1：Stepper Ø6.35 PCD66.67,M4<br>ST2：Stepper Ø6.35 PCD70.7,M4<br>ST3：Stepper Ø8 PCD70.7,M4<br>ST4：Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |



■ 技术参数 Technical Parameters

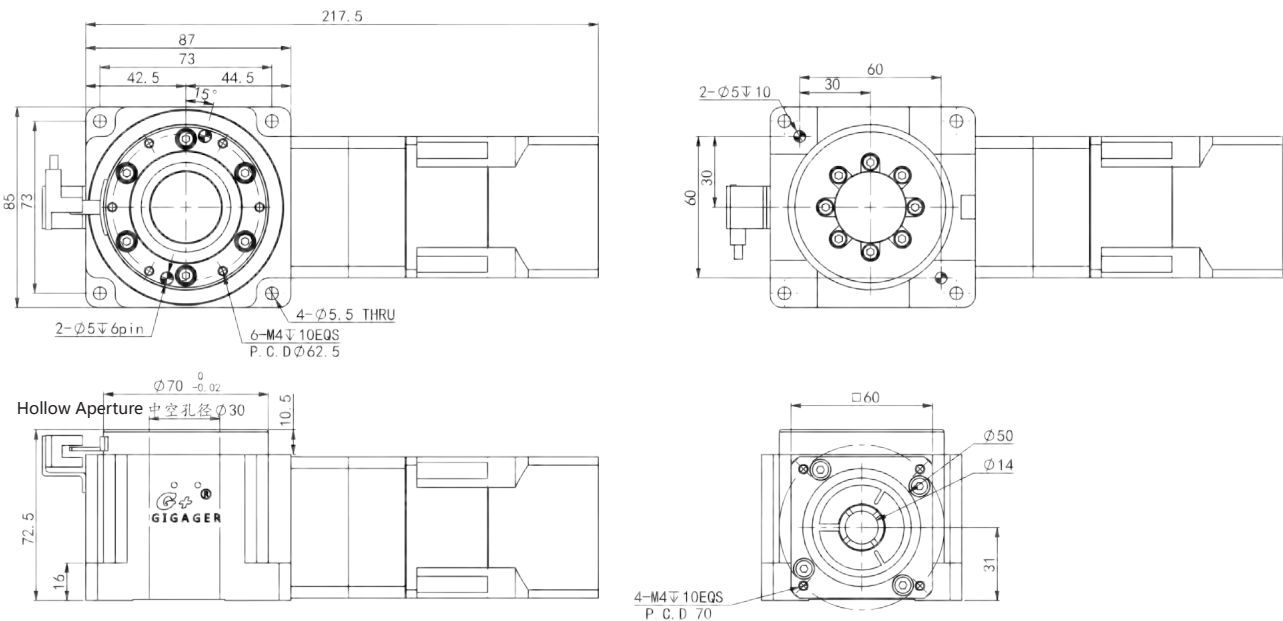
| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |
|----------------------------------------|--------------------------------|
| 容许转矩<br>Allowable Torque               | N.m                            |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                            |
| 容许盘面转速<br>Allowable Table Speed        | rpm                            |
| 减速比<br>Gear Ratio                      | i                              |
| 重复定位精度<br>Repeatability                | arc-sec                        |

|                                |         |        |
|--------------------------------|---------|--------|
| 定位精度<br>Positioning Accuracy   | arc-min | ≤ 2    |
| 容许轴向负载<br>Allowable Axial Load | N       | 900    |
| 旋转平台平面度<br>Table Flatness      | mm      | ≤ 0.01 |
| 旋转平台同心度<br>Table Concentricity | mm      | ≤ 0.01 |
| 保护等级<br>Ingress Protection     | IP      | 40     |
| 重量<br>Weight                   | kg      | 2      |



GSR85M

| GSR            | 85         | M                                                  | - 30K -      | SV1                                                                                                                                                          |
|----------------|------------|----------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                       | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                                |
|                | 60         | 无：标准型<br>M：行星式<br><br>None：Standard<br>M：Planetary |              | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                  |
|                | 85         |                                                    |              | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|                | 110        |                                                    |              | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                 |
|                | 150        |                                                    |              | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |
|                | 200        |                                                    |              |                                                                                                                                                              |

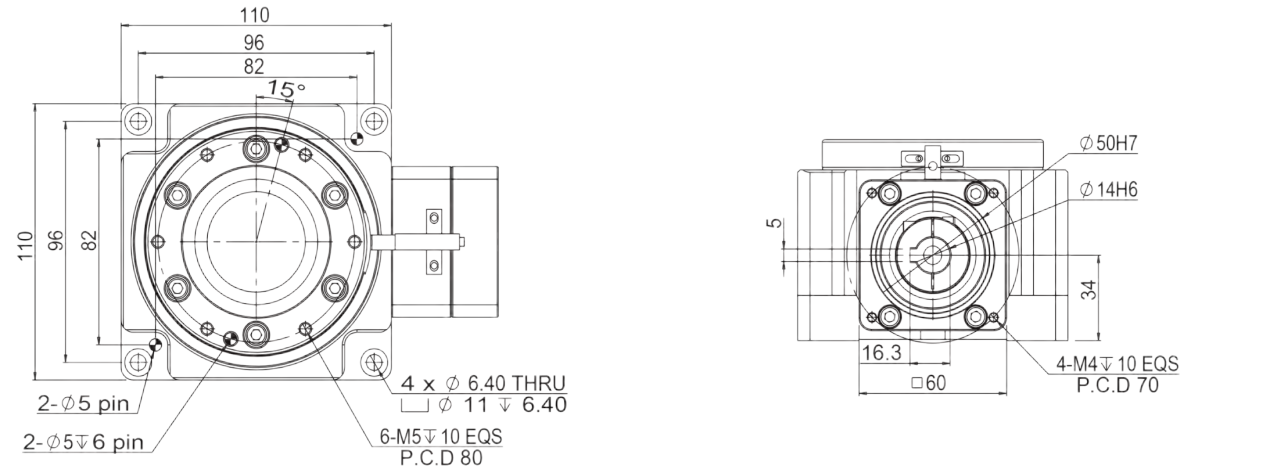


■ 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing | 定位精度<br>Positioning Accuracy   | arc-min | ≤ 2    |
|----------------------------------------|--------------------------------|--------------------------------|---------|--------|
| 容许转矩<br>Allowable Torque               | N.m                            | 容许轴向负载<br>Allowable Axial Load | N       | 900    |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                            | 旋转平台平面度<br>Table Flatness      | mm      | ≤ 0.01 |
| 容许盘面转速<br>Allowable Table Speed        | rpm                            | 旋转平台同心度<br>Table Concentricity | mm      | ≤ 0.01 |
| 减速比<br>Gear Ratio                      | i                              | 保护等级<br>Ingress Protection     | IP      | 40     |
| 重复定位精度<br>Repeatability                | arc-sec                        | 重量<br>Weight                   | kg      | 3.2    |

GSR110

| GSR            | 110        | □                                                  | - 10K -      | SV1                                                                                                                                                          |
|----------------|------------|----------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                       | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                                |
|                | 60         | 无：标准型<br>M：行星式<br><br>None：Standard<br>M：Planetary |              | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                  |
|                | 85         |                                                    |              | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|                | 110        |                                                    |              | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                 |
|                | 150        |                                                    |              | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |
|                | 200        |                                                    |              |                                                                                                                                                              |

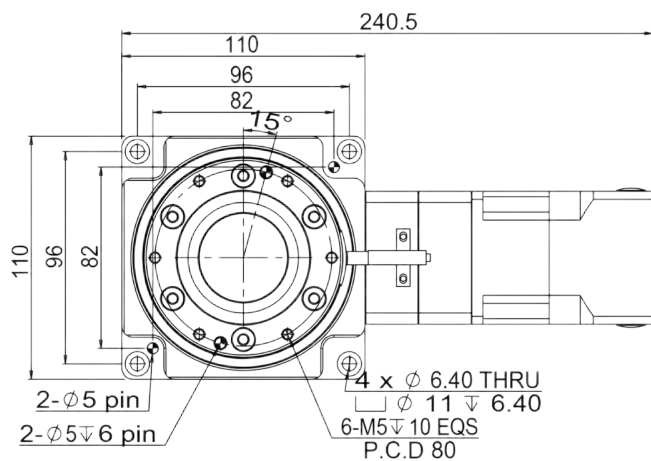


■ 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |
|----------------------------------------|--------------------------------|
| 容许转矩<br>Allowable Torque               | N.m                            |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                            |
| 容许盘面转速<br>Allowable Table Speed        | rpm                            |
| 减速比<br>Gear Ratio                      | i                              |
| 重复定位精度<br>Repeatability                | arc-sec                        |
| 定位精度<br>Positioning Accuracy           | arc-min                        |
| 容许轴向负载<br>Allowable Axial Load         | N                              |
| 旋转平台平面度<br>Table Flatness              | mm                             |
| 旋转平台同心度<br>Table Concentricity         | mm                             |
| 保护等级<br>Ingress Protection             | IP                             |
| 重量<br>Weight                           | kg                             |

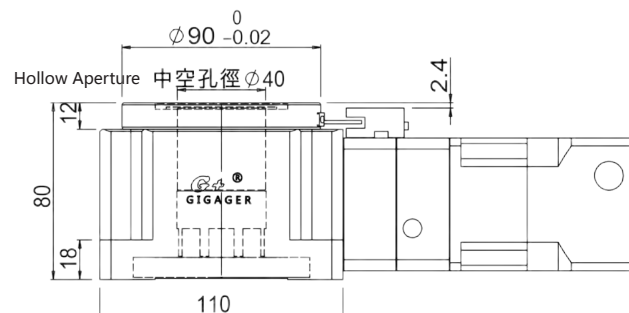
## GSR110M

| GSR            | 110        | M                                                  | - 30K -      | SV1                                                                                                                                                          |
|----------------|------------|----------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                       | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                                |
|                | 60         | 无：标准型<br>M：行星式<br><br>None：Standard<br>M：Planetary |              | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                  |
|                | 85         |                                                    |              | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|                | 110        |                                                    |              | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                 |
|                | 150        |                                                    |              | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |
|                | 200        |                                                    |              |                                                                                                                                                              |



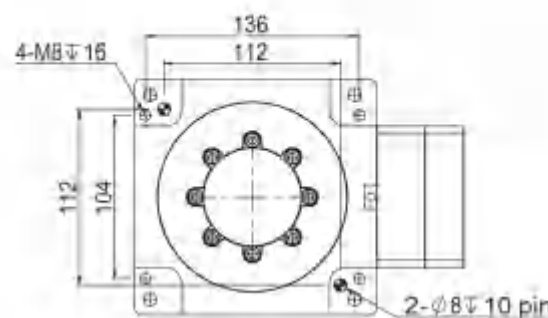
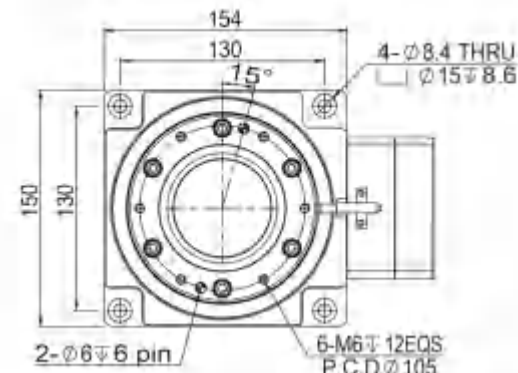
### 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |
|----------------------------------------|--------------------------------|
| 容许转矩<br>Allowable Torque               | N.m 45                         |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m 50                         |
| 容许盘面转速<br>Allowable Table Speed        | rpm 200                        |
| 减速比<br>Gear Ratio                      | i 30/40/50/70/100              |
| 重复定位精度<br>Repeatability                | arc-sec ≤ 10                   |
| 定位精度<br>Positioning Accuracy           | arc-min ≤ 2                    |
| 容许轴向负载<br>Allowable Axial Load         | N 1500                         |
| 旋转平台平面度<br>Table Flatness              | mm ≤ 0.01                      |
| 旋转平台同心度<br>Table Concentricity         | mm ≤ 0.01                      |
| 保护等级<br>Ingress Protection             | IP 40                          |
| 重量<br>Weight                           | kg 4.3                         |



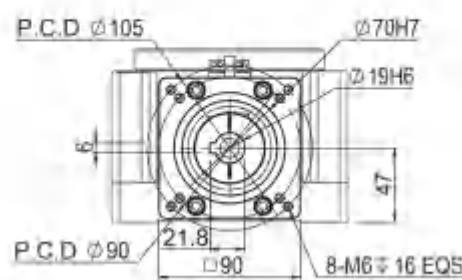
## GSR150

| GSR            | 150        | □                                                  | - 10K -      | SV1                                                                                     |
|----------------|------------|----------------------------------------------------|--------------|-----------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                       | 减速比<br>Ratio | 马达规格<br>Motor                                                                           |
|                | 60         | 无：标准型<br>M：行星式<br><br>None：Standard<br>M：Planetary |              | SV1：伺服 Ø19 PCD90,M5<br>SV2：伺服 Ø19 PCD90,M6<br>适配各品牌 750W AC 伺服马达                        |
|                | 85         |                                                    |              | SV1: Servo Ø19 PCD90,M5<br>SV2: Servo Ø19 PCD90,M6<br>Suit for 750W AC Servo Motor      |
|                | 110        |                                                    |              | ST1：步进 Ø14 PCD98.4,M5<br>ST2：步进 Ø14 PCD98.4,M6<br>适配各品牌 86 型步进马达                        |
|                | 150        |                                                    |              | ST1: Stepper Ø14 PCD98.4,M5<br>ST2: Stepper Ø14 PCD98.4,M6<br>Suit for 86 Stepper Motor |
|                | 200        |                                                    |              |                                                                                         |



### 技术参数 Technical Parameters

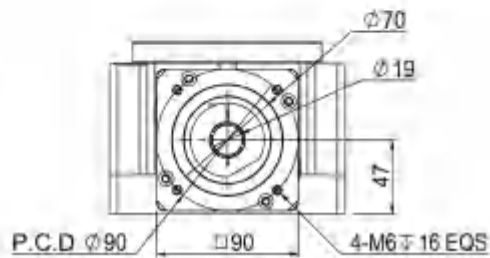
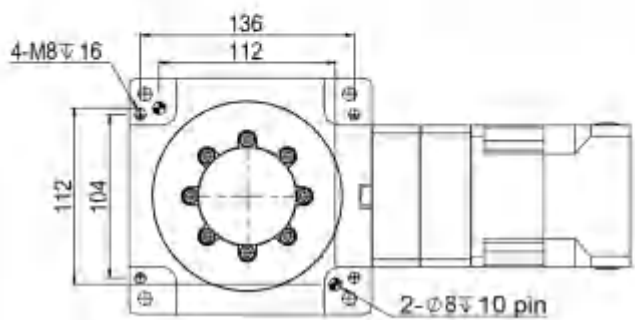
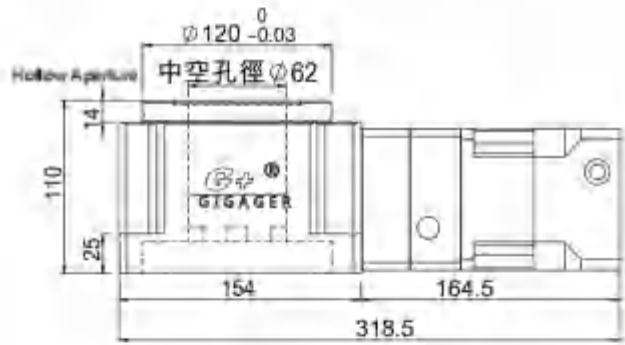
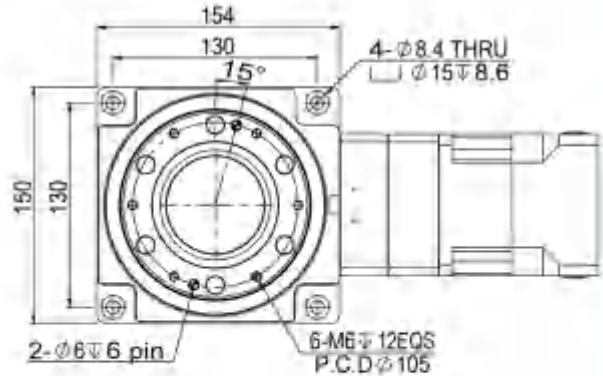
| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |
|----------------------------------------|--------------------------------|
| 容许转矩<br>Allowable Torque               | N.m 60                         |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m 90                         |
| 容许盘面转速<br>Allowable Table Speed        | rpm 200                        |
| 减速比<br>Gear Ratio                      | i 30                           |
| 重复定位精度<br>Repeatability                | arc-sec ≤ 10                   |
| 定位精度<br>Positioning Accuracy           | arc-min ≤ 2                    |
| 容许轴向负载<br>Allowable Axial Load         | N 3500                         |
| 旋转平台平面度<br>Table Flatness              | mm ≤ 0.01                      |
| 旋转平台同心度<br>Table Concentricity         | mm ≤ 0.01                      |
| 保护等级<br>Ingress Protection             | IP 40                          |
| 重量<br>Weight                           | kg 7.9                         |





GSR150M

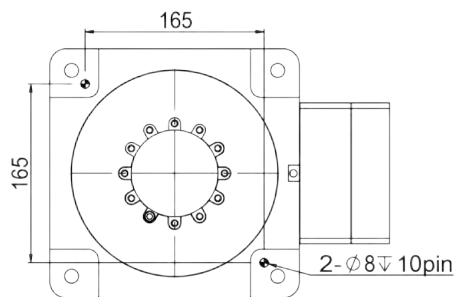
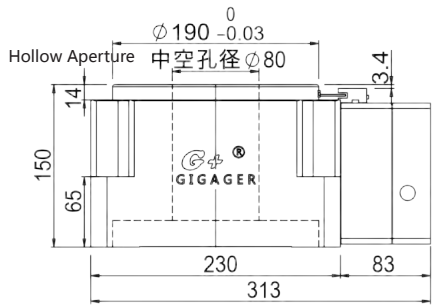
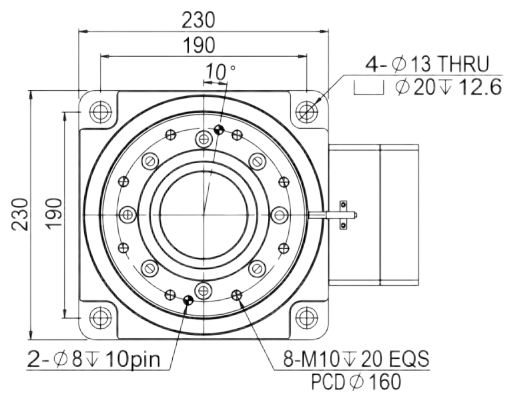
| GSR            | 150        | M                            | - | 30K          | - | SV1                                                                                   |  |
|----------------|------------|------------------------------|---|--------------|---|---------------------------------------------------------------------------------------|--|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                 |   | 减速比<br>Ratio |   | 马达规格<br>Motor                                                                         |  |
|                | 60         | 无：标准型<br>M：行星式               |   |              |   | SV1：伺服 Ø19 PCD90,M5<br>SV2：伺服 Ø19 PCD90,M6<br>适配各品牌 750W AC 伺服马达                      |  |
|                | 85         |                              |   |              |   |                                                                                       |  |
|                | 110        | None：Standard<br>M：Planetary |   |              |   | ST1：步进 Ø14 PCD98.4,M5<br>ST2：步进 Ø14 PCD98.4,M6<br>适配各品牌 86 型步进马达                      |  |
|                | 150        |                              |   |              |   |                                                                                       |  |
|                | 200        |                              |   |              |   |                                                                                       |  |
|                |            |                              |   |              |   | ST1：Stepper Ø14 PCD98.4,M5<br>ST2：Stepper Ø14 PCD98.4,M6<br>Suit for 86 Stepper Motor |  |



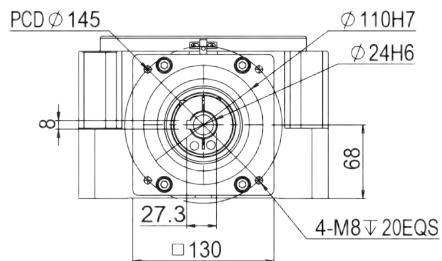
| 技术参数 Technical Parameters              |                                |                 |
|----------------------------------------|--------------------------------|-----------------|
| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |                 |
| 容许转矩<br>Allowable Torque               | N.m                            | 80              |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                            | 90              |
| 容许盘面转速<br>Allowable Table Speed        | rpm                            | 200             |
| 减速比<br>Gear Ratio                      | i                              | 30/40/50/70/100 |
| 重复定位精度<br>Repeatability                | arc-sec                        | ± 30            |
| 定位精度<br>Positioning Accuracy           | arc-min                        | ± 2             |
| 容许轴向负载<br>Allowable Axial Load         | N                              | 2500            |
| 旋转平台平面度<br>Table Flatness              | mm                             | ± 0.01          |
| 旋转平台同心度<br>Table Concentricity         | mm                             | ± 0.01          |
| 防护等级<br>Ingress Protection             | IP                             | 40              |
| 重量<br>Weight                           | kg                             | 32.4            |

GSR200

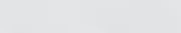
| GSR            | 200        | □                            | 10K          | -                                                                   | SV1                                                                                   |  |  |
|----------------|------------|------------------------------|--------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                 | 减速比<br>Ratio |                                                                     | 马达规格<br>Motor                                                                         |  |  |
|                | 60         | 无：标准型<br>M：行星式               |              | SV1：伺服 Ø22 PCD145,M8<br>SV2：伺服 Ø24 PCD145,M8<br>适配各品牌 1000W AC 伺服马达 | SV1: Servo Ø22 PCD145,M8<br>SV2: Servo Ø24 PCD145,M8<br>Suit for 1000W AC Servo Motor |  |  |
|                | 85         |                              |              |                                                                     |                                                                                       |  |  |
|                | 110        | None：Standard<br>M：Planetary |              |                                                                     |                                                                                       |  |  |
|                | 150        |                              |              |                                                                     |                                                                                       |  |  |
|                | 200        |                              |              |                                                                     |                                                                                       |  |  |



| 技术参数 Technical Parameters              |                                |        |
|----------------------------------------|--------------------------------|--------|
| 旋转平台轴承<br>Bearing of Rotary Table      | 交叉滚子轴承<br>Cross Roller Bearing |        |
| 容许转矩<br>Allowable Torque               | N.m                            | 170    |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                            | 200    |
| 容许盘面转速<br>Allowable Table Speed        | rpm                            | 200    |
| 减速比<br>Gear Ratio                      | i                              | 10     |
| 重复定位精度<br>Repeatability                | arc-sec                        | ≤ 10   |
| 定位精度<br>Positioning Accuracy           | arc-min                        | ≤ 2    |
| 容许轴向负载<br>Allowable Axial Load         | N                              | 7000   |
| 旋转平台平面度<br>Table Flatness              | mm                             | ≤ 0.01 |
| 旋转平台同心度<br>Table Concentricity         | mm                             | ≤ 0.01 |
| 保护等级<br>Ingress Protection             | IP                             | 53     |
| 重量<br>Weight                           | kg                             | 26     |



**GSR      200      M      -      30K      -      SV1**



## GSHR 系列中空旋转平台

### GSHR Series Hypoid Rotary Tables



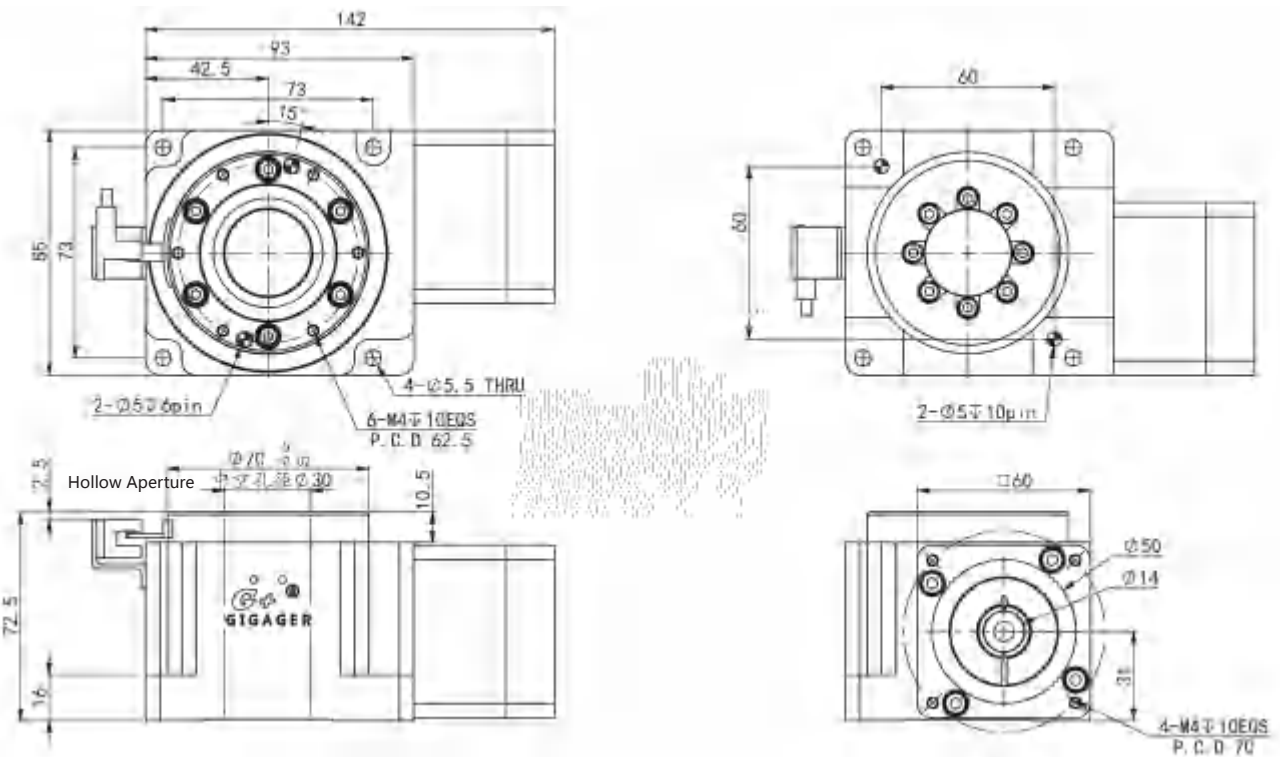
The spiral guide hypoid gear has the advantages of higher ratio, high torque, high precision and low loss than the spiral bevel. It rotates in a sliding way transmission accuracy can reach 30 arc seconds, and the transmission efficiency can reach 96%.

采用高精度、高密度优质合金齿轮材料，精度寿命可达 30000 小时。  
With high-hardness and high-density gear materials, the accuracy life can reach 30000hrs.

www.gigager.com

GSHR85

| GSHR         | 85       | - | 30K        | - | SV1                                                                                                                                                          |
|--------------|----------|---|------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码 /Series | 规格 /Size |   | 减速比 /Ratio |   | 马达规格 /Motor                                                                                                                                                  |
|              | 85       |   |            |   |                                                                                                                                                              |
|              | 100      |   |            |   | SV1 : 伺服 Ø14 PCD70,M4<br>SV2 : 伺服 Ø14 PCD70,M5<br>SV3 : 伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                            |
|              | 150      |   |            |   | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|              | 200      |   |            |   | ST1 : 步进 Ø6.35 PCD66.67,M4<br>ST2 : 步进 Ø6.35 PCD70.7,M4<br>ST3 : 步进 Ø8 PCD70.7,M4<br>ST4 : 步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                         |
|              |          |   |            |   | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |

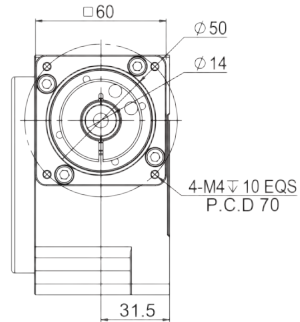
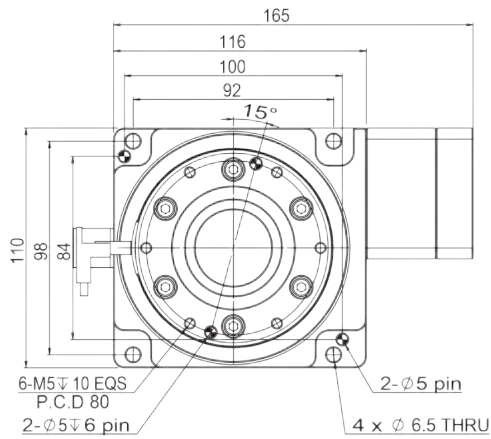


■ 技术参数 Technical Parameters

| 旋转平台轴承<br>Bearing of Rotary Table | 交叉滚子轴承<br>Cross Roller Bearing | 容许轴向负载<br>Allowable Axial Load         | N   | 900    |
|-----------------------------------|--------------------------------|----------------------------------------|-----|--------|
| 容许转矩<br>Allowable Torque          | N.m                            | 容许惯性力矩<br>Allowable Overturning Moment | N.m | 20     |
| 容许盘面转速<br>Allowable Table Speed   | rpm                            | 旋转平台平面度<br>Table Flatness              | mm  | ≤ 0.01 |
| 减速比<br>Gear Ratio                 | i                              | 旋转平台同心度<br>Table Concentricity         | mm  | ≤ 0.01 |
| 重复定位精度<br>Repeatability           | arc-sec                        | 保护等级<br>Ingress Protection             | IP  | 53     |
| 定位精度<br>Positioning Accuracy      | arc-min                        | 重量<br>Weight                           | kg  | 2.6    |

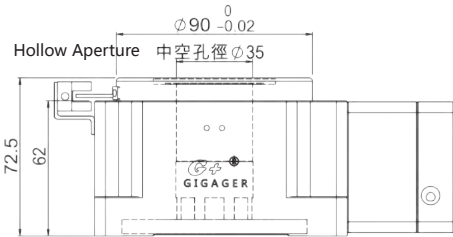
GSHR100

| GSHR         | 100      | - | 30K        | - | SV1                                                                                                                                                          |
|--------------|----------|---|------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码 /Series | 规格 /Size |   | 减速比 /Ratio |   | 马达规格 /Motor                                                                                                                                                  |
|              | 85       |   |            |   |                                                                                                                                                              |
|              | 100      |   |            |   | SV1 : 伺服 Ø14 PCD70,M4<br>SV2 : 伺服 Ø14 PCD70,M5<br>SV3 : 伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                            |
|              | 150      |   |            |   | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|              | 200      |   |            |   | ST1 : 步进 Ø6.35 PCD66.67,M4<br>ST2 : 步进 Ø6.35 PCD70.7,M4<br>ST3 : 步进 Ø8 PCD70.7,M4<br>ST4 : 步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                         |
|              |          |   |            |   | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |



■ 技术参数 Technical Parameters

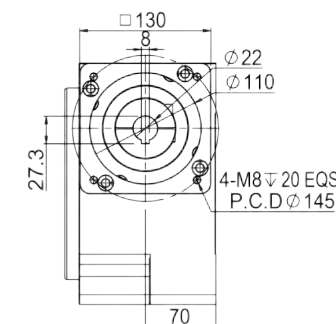
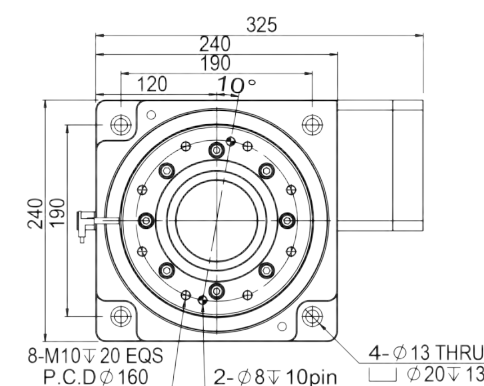
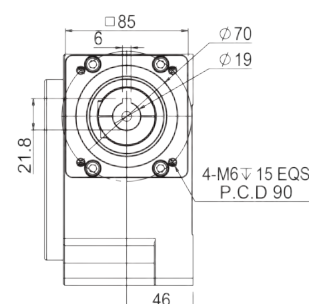
| 旋转平台轴承<br>Bearing of Rotary Table | 交叉滚子轴承<br>Cross Roller Bearing | 容许轴向负载<br>Allowable Axial Load         | N   | 1500   |
|-----------------------------------|--------------------------------|----------------------------------------|-----|--------|
| 容许转矩<br>Allowable Torque          | N.m                            | 容许惯性力矩<br>Allowable Overturning Moment | N.m | 75     |
| 容许盘面转速<br>Allowable Table Speed   | rpm                            | 旋转平台平面度<br>Table Flatness              | mm  | ≤ 0.01 |
| 减速比<br>Gear Ratio                 | i                              | 旋转平台同心度<br>Table Concentricity         | mm  | ≤ 0.01 |
| 重复定位精度<br>Repeatability           | arc-sec                        | 保护等级<br>Ingress Protection             | IP  | 53     |
| 定位精度<br>Positioning Accuracy      | arc-min                        | 重量<br>Weight                           | kg  | 3.6    |





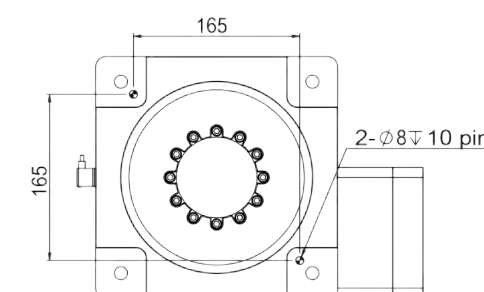
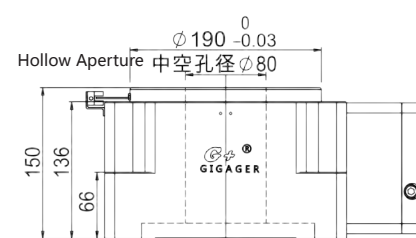
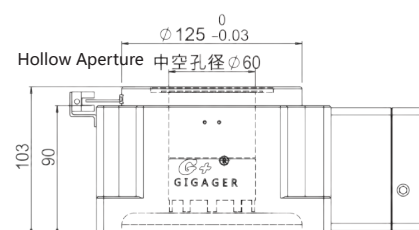
**GSHR200**

| GSHR         |          | 200 | - | 30K        | -                                                                   | SV1 |  |
|--------------|----------|-----|---|------------|---------------------------------------------------------------------|-----|--|
| 系列代码 /Series | 规格 /Size |     |   | 减速比 /Ratio | 马达规格 /Motor                                                         |     |  |
|              | 85       |     |   |            | SV1：伺服 Ø22 PCD145,M8<br>SV2：伺服 Ø24 PCD145,M8<br>适配各品牌 1000W AC 伺服马达 |     |  |
|              | 100      |     |   |            |                                                                     |     |  |
|              | 150      |     |   |            |                                                                     |     |  |
|              | 200      |     |   |            |                                                                     |     |  |



## ■ 技术参数 Technical Parameters

|                                        |         |                                |
|----------------------------------------|---------|--------------------------------|
| 旋轉平台軸承<br>Bearing of Rotary Table      |         | 交叉滾子軸承<br>Cross Roller Bearing |
| 容許转矩<br>Allowable Torque               | N.m     | 350                            |
| 容許盘面转速<br>Allowable Table Speed        | rpm     | 100                            |
| 減速比<br>Gear Ratio                      | i       | 30                             |
| 重複定位精度<br>Repeatability                | arc-sec | ≤ 10                           |
| 定位精度<br>Positioning Accuracy           | arc-min | ≤ 1                            |
| 容許軸向負載<br>Allowable Axial Load         | N       | 7000                           |
| 容許慣性力矩<br>Allowable Overturning Moment | N.m     | 200                            |
| 旋轉平台平面度<br>Table Flatness              | mm      | ≤ 0.01                         |
| 旋轉平台同心度<br>Table Concentricity         | mm      | ≤ 0.01                         |
| 保護等級<br>Ingress Protection             | IP      | 53                             |
| 重量<br>Weight                           | kg      | 32                             |







GSA 系列中空旋转平台  
GSA Series Hollow Rotary Tables



大口径中空结构

配线配管更方便简洁，在布线复杂的环境中，该优势尤为突出。

Large Hollow Aperture

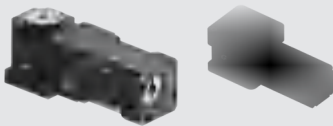
Wiring and piping are more convenient and concise, and this advantage is particularly prominent in the wiring and piping environment with complex wiring.

90°直角结构

为有限空间提供更多选择，实现空间高效利用。

90° Right-angle Structure

Supply more choices to optimize the use of limited space.



组合多样化

可与行星减速机及各品牌伺服马达组合使用，实现多样化的机构设计。

Multiple Combinations

Combined with planetary reducers and various brands of servo motors to achieve multiple mechanism designs.

GSA SERIES

| GSA            | 42         | M                                                  | - | 03K          | - | SV1                                                                                   |
|----------------|------------|----------------------------------------------------|---|--------------|---|---------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                       |   | 减速比<br>Ratio |   | 马达规格<br>Motor                                                                         |
|                | 42         | 无：标准型<br>M：行星式<br><br>None：Standard<br>M：Planetary |   | 03K          |   | SV1：伺服 Ø8 PCD45,M3<br>SV2：伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                        |
|                | 45         |                                                    |   | 08K          |   |                                                                                       |
|                |            |                                                    |   | 09K          |   | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor      |
|                |            |                                                    |   | 12K          |   |                                                                                       |
|                |            |                                                    |   | 15K          |   |                                                                                       |
|                |            |                                                    |   | 30K          |   | ST1：步进 Ø5 PCD43.8,M3<br>ST2：步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                        |
|                |            |                                                    |   |              |   | ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |
|                |            |                                                    |   |              |   | OS：标配开环步进马达                                                                           |
|                |            |                                                    |   |              |   | OS: Dedicated Open Loop Stepper Motor                                                 |

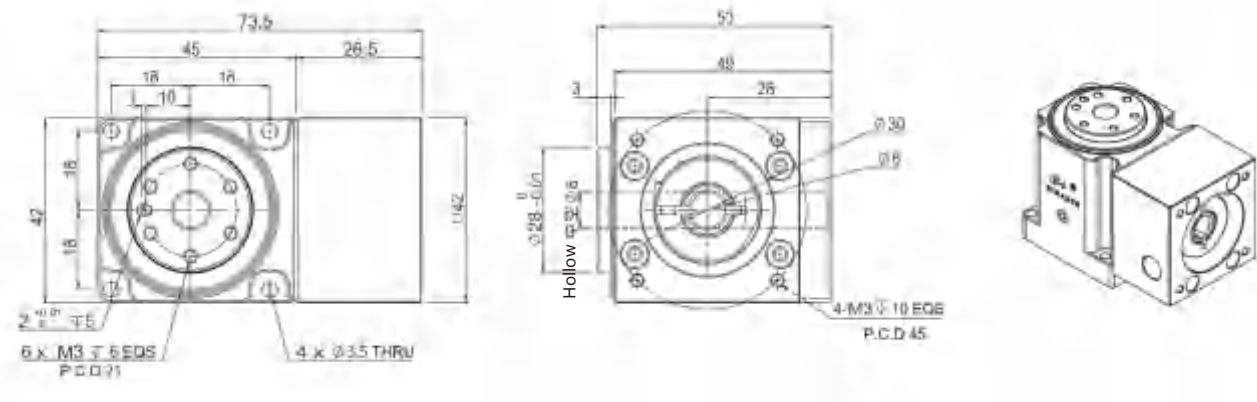
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           |         | 型号规格 Model                    |        |    |    |                                |       |
|-------------------------------------|---------|-------------------------------|--------|----|----|--------------------------------|-------|
|                                     |         | GSA42H                        | GSA42M |    |    |                                | GSA45 |
| 旋转平台轴承 Bearing of Rotary Table      |         | 圆锥滚子轴承 Tapered Roller Bearing |        |    |    | 深沟球轴承 Deep Groove Ball Bearing |       |
| 减速比 Gear Ratio                      | i       | 3                             | 9      | 12 | 15 | 30                             | 8     |
| 容许转矩 Allowable Torque               | N.m     | 12                            |        |    |    | 3                              |       |
| 容许盘面转速 Allowable Table Speed        | rpm     | 200                           |        |    |    | 150                            |       |
| 重复定位精度 Repeatability                | arc-sec | ≤ 10                          | ≤ 15   |    |    | ≤ 10                           |       |
| 容许惯性力矩 Allowable Overturning Moment | N.m     | 3                             |        |    |    | 1.5                            |       |
| 定位精度 Positioning Accuracy           | arc-min | ≤ 1                           |        |    |    |                                |       |
| 容许轴向负载 Allowable Axial Load         | N       | 100                           |        |    |    | 20                             |       |
| 旋转平台平面度 Table Flatness              | mm      | ≤ 0.01                        |        |    |    |                                |       |
| 旋转平台同心度 Table Concentricity         | mm      | ≤ 0.01                        |        |    |    |                                |       |
| 保护等级 Ingress Protection             | IP      | 40                            |        |    |    |                                |       |
| 重量 Weight                           | kg      | 0.5                           | 1      |    |    | 0.5                            |       |

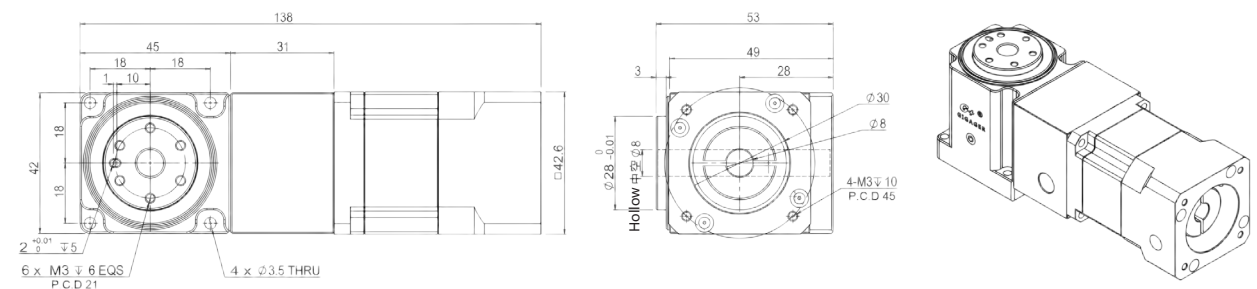
■ 马达 / 驱动器参数 Motor/Drive Parameters

| 马达 / 驱动器参数<br>Motor/Drive Parameters | 型号规格 Model        |      |
|--------------------------------------|-------------------|------|
|                                      | GSA45-08K-OS      |      |
| 外框尺寸 Frame Size                      | mm                | 28   |
| 额定电流 Rated Current                   | A/phase           | 1    |
| 线圈阻抗 Coil Impedance                  | Ω/phase           | 2.7  |
| 线圈感抗 Coil Inductive                  | mh                | 1.9  |
| 保持转矩 Holding Torque                  | N.m               | 0.11 |
| 转动惯量 Moment of Inertia               | g.cm <sup>2</sup> | 17   |
| 马达长度 Motor Length                    | mm                | 40   |
| 防护等级 Ingress Protection              | IP                | 20   |
| 步距角 Step Angle                       | °                 | 1.8  |
| 引线 Lead Wire                         |                   | 4    |

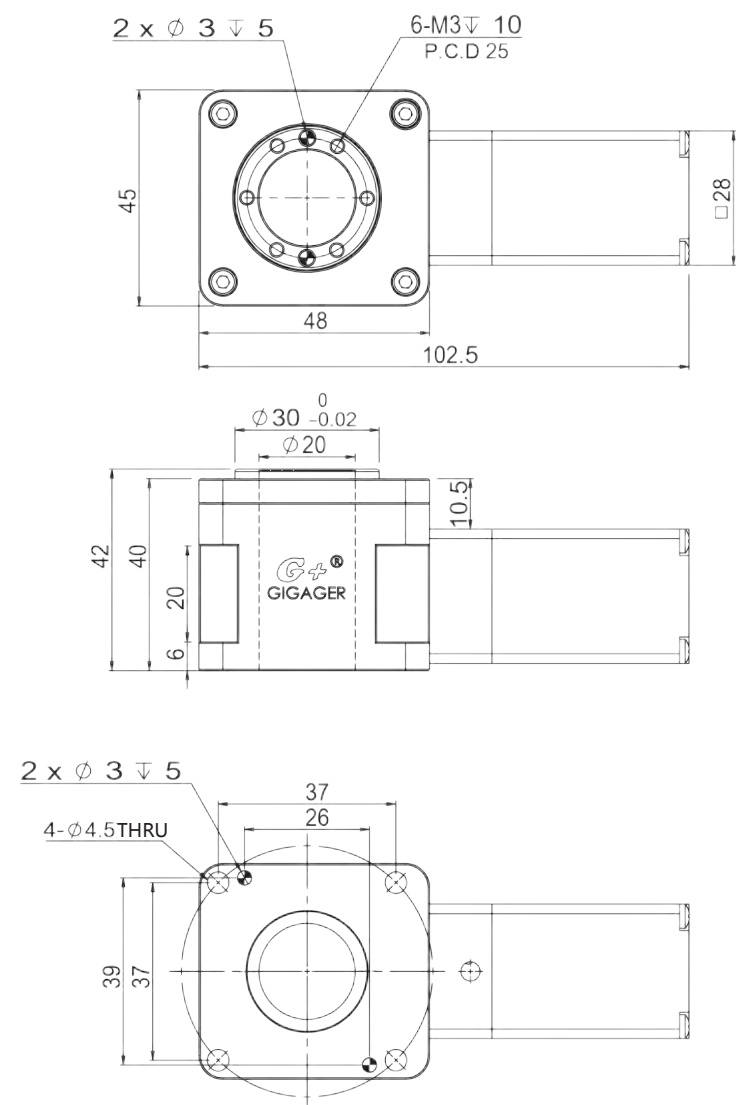
■ GSA42H-03K



■ GSA42M-9K/12K/15K/30K



■ GSA45-08K-OS



|                             |
|-----------------------------|
| GSH                         |
| GSR                         |
| GSHR                        |
| GSA                         |
| GR                          |
| GYH                         |
| GSN                         |
| GSB                         |
| GSG                         |
| 技术手册<br>Technical<br>Manual |
| GSZ                         |
| GMR                         |
| GMC                         |
| GMA                         |
| GML                         |



## GR 系列蜗轮电动转台

### GR Series Worm Electric Rotary Tables



大口径中空结构；  
低重心，小体积，大传动比；  
应用于光学传感、自动化设备等领域。

Large-aperture Hollow Structure  
Low Centre of Gravity  
Small Volume  
Large Gear Ratio  
Applied to Automation Equipment Fields

GR SERIES

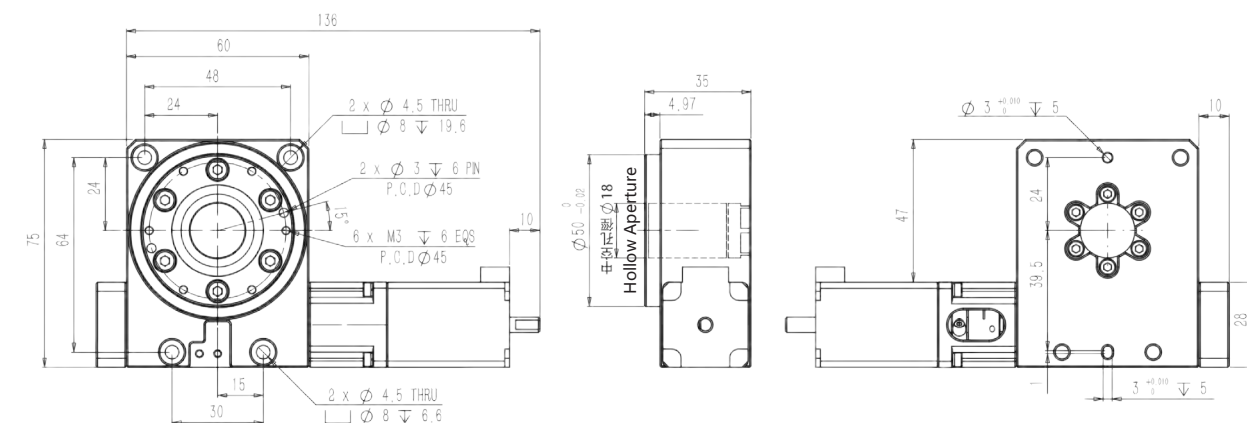
| GR          | 60      | - 90K -   | OS                                                                                                                                                         |
|-------------|---------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码 Series | 规格 Size | 减速比 Ratio | 马达规格 Motor                                                                                                                                                 |
|             | 60      |           | SV1：伺服 Ø8 PCD45,M3<br>SV2：伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达<br>OS：标配开环步进马达                                                                              |
|             | 120     |           | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor<br>OS: Dedicated Open Loop Stepper Motor                                  |
|             | 200     |           | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达<br>OS：标配开环步进马达                                                 |
|             |         |           | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor<br>OS: Dedicated Open Loop Stepper Motor |

■ 技术参数 Technical Parameters

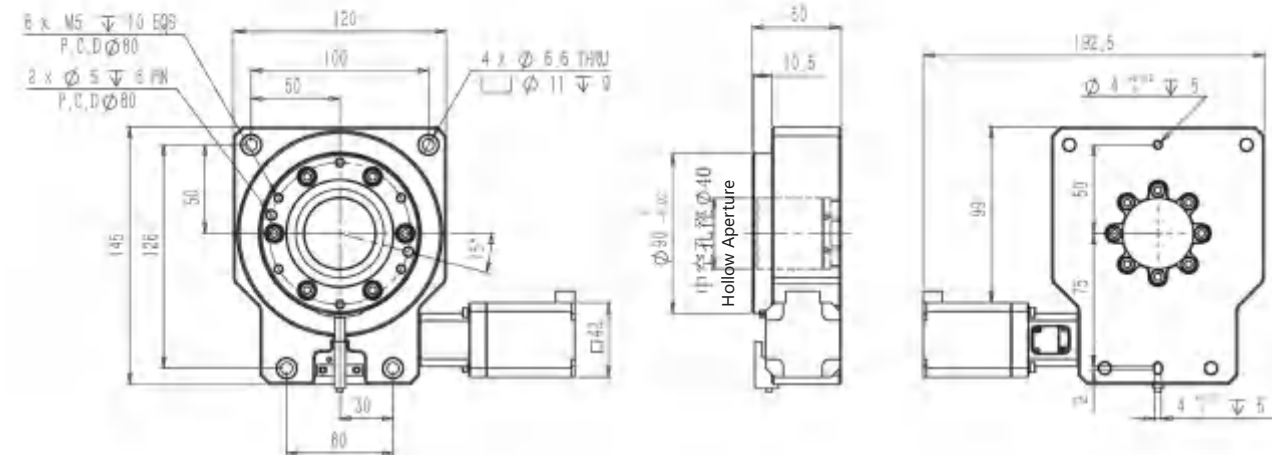
| 技术参数 Technical Parameters           |         | 型号规格 Model  |             |              |              |             |             |
|-------------------------------------|---------|-------------|-------------|--------------|--------------|-------------|-------------|
|                                     |         | GR60-90K-OS | GR60-90K-SV | GR120-90K-OS | GR120-90K-SV | GR200-90-OS | GR200-90-SV |
| 容许转矩 Allowable Torque               | N.m     | 30          | 30          | 45           |              | 75          |             |
| 容许惯性力矩 Allowable Overturning Moment | N.m     | 5           | 5           | 50           |              | 100         |             |
| 容许盘面转速 Allowable Table Speed        | rpm     | 6           | < 16        | 30           |              | 30          |             |
| 减速比 Gear Ratio                      | i       | 90          |             |              |              |             |             |
| 重复定位精度 Repeatability                | arc-sec | ≤ 10        |             |              |              |             |             |
| 定位精度 Positioning Accuracy           | arc-sec | ≤ 50        |             |              |              |             |             |
| 容许轴向负载 Allowable Axial Load         | N       | 300         |             | 1500         |              | 4000        |             |
| 旋转平台平面度 Table Flatness              | mm      | ≤ 0.01      |             |              |              |             |             |
| 旋转平台同心度 Table Concentricity         | mm      | ≤ 0.01      |             |              |              |             |             |
| 保护等级 Ingress Protection             | IP      | 54          |             |              |              |             |             |
| 重量 Weight                           | kg      | 0.9         |             | 3            |              | 12          |             |



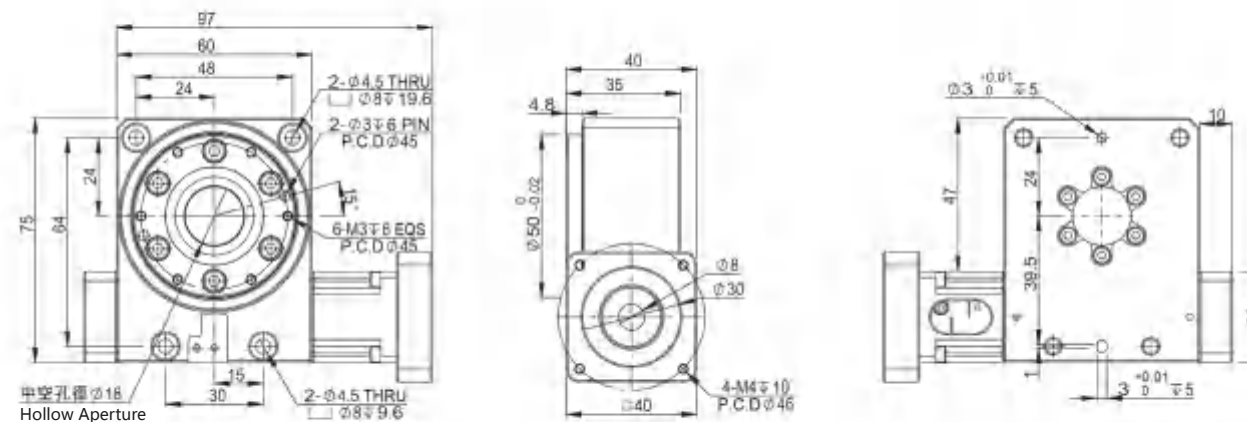
■ GR60-90K-OS



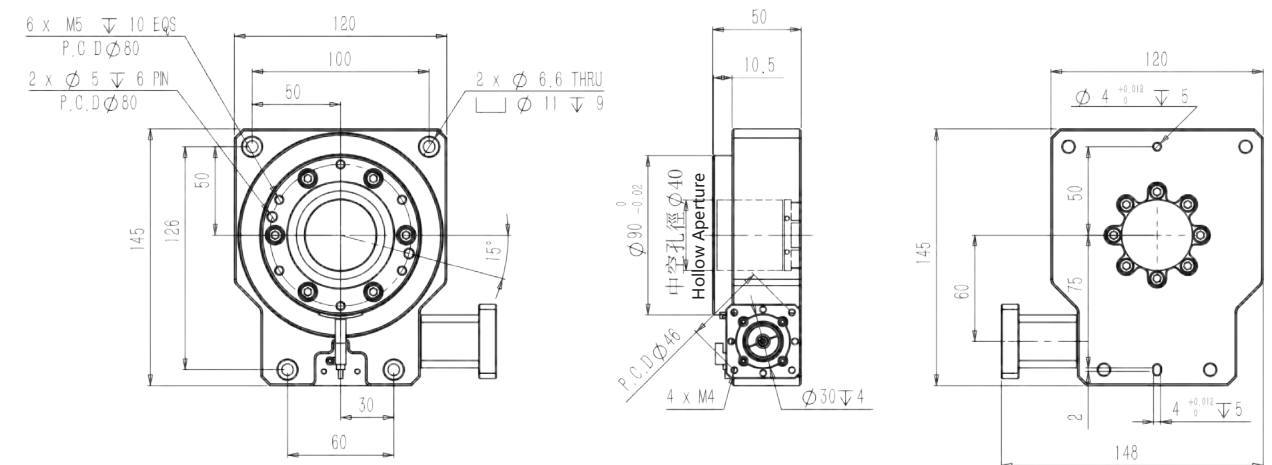
■ GR120-90K-OS



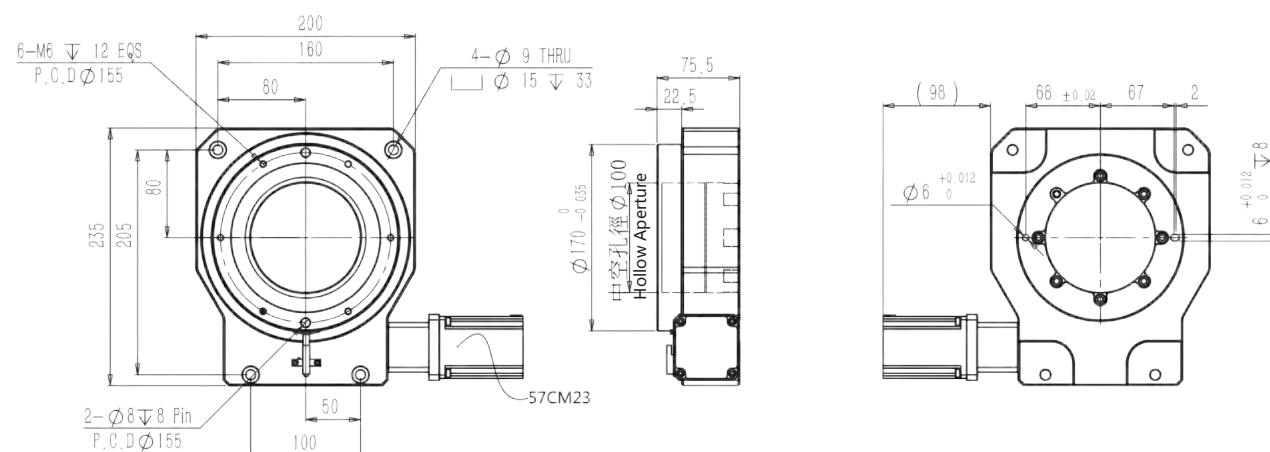
■ GR60-90K-SV



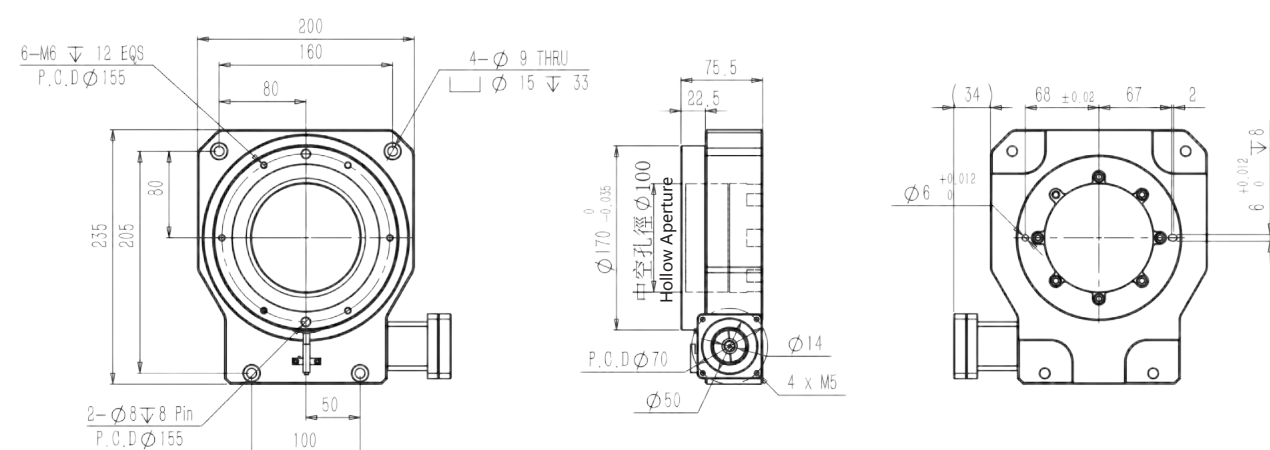
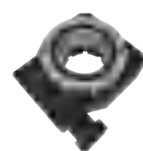
■ GR120-90K-SV



## GR200-90K-OS



## GR200-90K-SV



## GYH 系列中空分度盘 GYH Series Hollow Indexing Tables



Applies the principle of arc surface indexing for precise motion control.

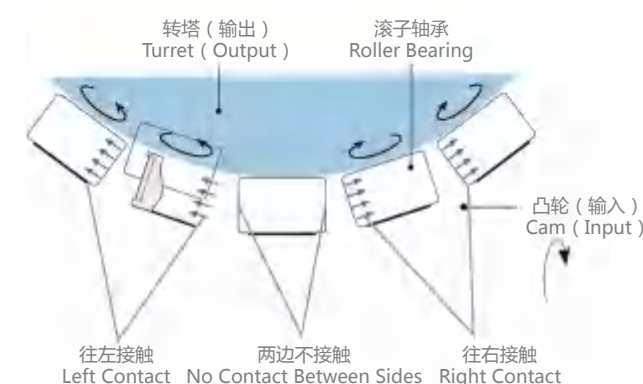
The transmission component consists of an input shaft (arc indexing roller) and a roller (output shaft). The cam groove surface on the input shaft aligns with the driven roller element's outer ring surface, driving the table.

Torque transmission during rotation is achieved through internal roller bearings, resulting in a hollow indexing table with zero backlash.

The design ensures excellent precision and efficiency while preventing internal parts from wearing, ensuring prolonged high-precision performance.

中空分度盘应用弧面分度原理，实现了精确的运动控制。传动件由输入轴（弧面分度凸轮）及滚柱（输出轴）组成，输入轴上的凸轮槽表面与滚柱上的从动滚子元件外环表面呈线接触啮合，从而驱动转轮（工作台）转动。从动滚子元件在旋转过程中利用内部滚柱轴承传递扭矩，保证了中空分度盘零间隙的性能。优异的工作精度和工作效率有效避免了内部零件的损耗，保障中空分度盘可以持久保持高精度工作状态。

### 工作原理 Principle



左右两边互锁，确保正反转零间隙。  
The left and right sides are interlocked to ensure zero backlash between forward and reverse.



GSH

GSR

GSHR

GSA

GR

GYH

GSN

GSB

GSG

技术手册  
Technical Manual

GSZ

GMR

GMC

GMA

GML

GML

GML

GML

GML

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GML

## GYH SERIES

| GYH         |  | 68      |  | M                       |  | - 60K     |  | - SV1                                      |  |
|-------------|--|---------|--|-------------------------|--|-----------|--|--------------------------------------------|--|
| 系列代码 Series |  | 规格 Size |  | 结构形式 Type               |  | 减速比 Ratio |  | 马达规格 <sup>注1</sup> Motor <sup>Note 1</sup> |  |
|             |  | 48      |  | M : 行星式<br>M: Planetary |  |           |  | SV1                                        |  |
|             |  | 68      |  |                         |  |           |  | SV2                                        |  |
|             |  | 82      |  |                         |  |           |  | SV3                                        |  |
|             |  | 90      |  |                         |  |           |  | ST1                                        |  |
|             |  | 115     |  |                         |  |           |  | ST2                                        |  |
|             |  | 215     |  |                         |  |           |  | ST3                                        |  |
|             |  | 315     |  |                         |  |           |  | ST4                                        |  |

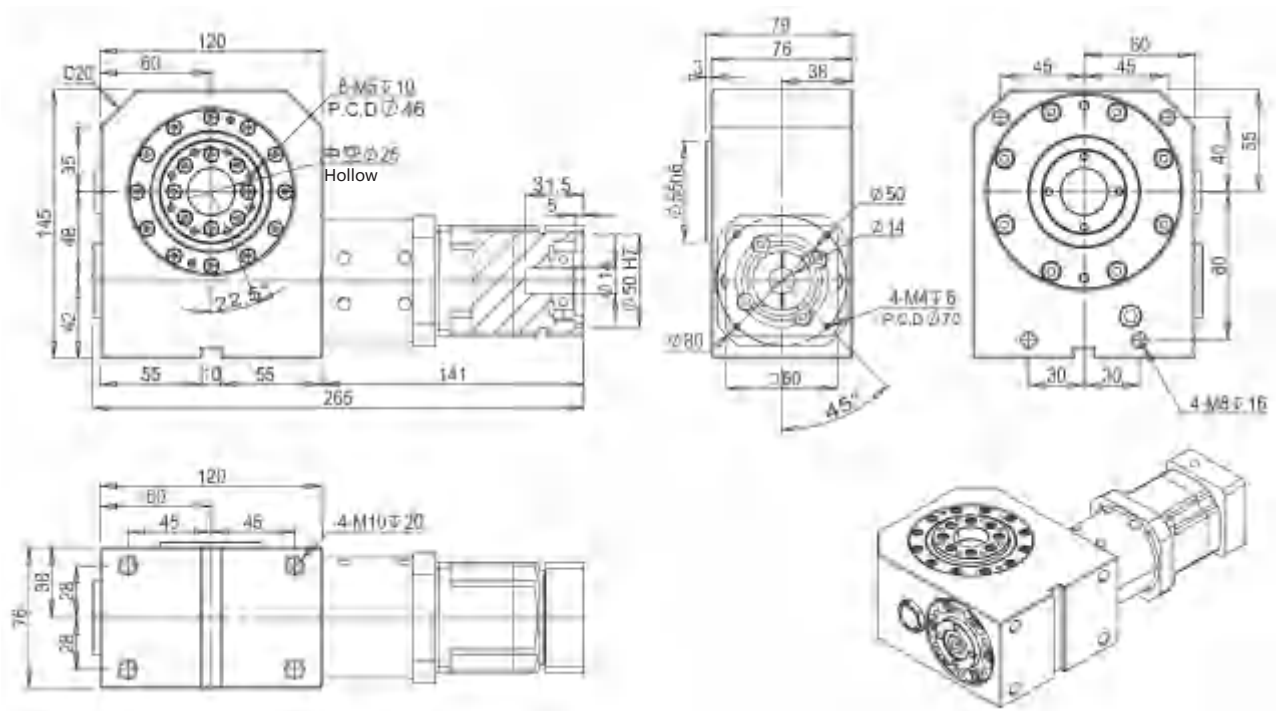
## ■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters                     |         | 型号规格 Model                  |           |           |           |           |             |             |
|-----------------------------------------------|---------|-----------------------------|-----------|-----------|-----------|-----------|-------------|-------------|
|                                               |         | GYH48M                      | GYH68M    | GYH82M    | GYH90M    | GYH115M   | GYH215M     | GYH315M     |
| 旋转平台轴承 Bearing of Rotary Table                |         | 交叉滚子轴承 Cross Roller Bearing |           |           |           |           |             |             |
| 减速比 Gear Ratio                                | i       | 45/60/75                    | 60/80/100 | 72/96/120 | 60/80/100 | 72/96/120 | 120/160/200 | 180/240/300 |
| 容许转矩 Allowable Torque                         | N.m     | 28                          | 65        | 90        | 120       | 210       | 420         | 860         |
| 容许输入转速 Allowable Input Speed                  | rpm     | 3000                        |           |           |           |           |             | 1500        |
| 重复定位精度 Repeatability                          | arc-sec | ±10                         |           |           |           |           |             |             |
| 定位精度 Positioning Accuracy                     | arc-sec | ±40                         | ±30       |           |           |           |             |             |
| 容许轴向负载 Allowable Axial Load                   | N       | 250                         | 1000      | 3000      | 4000      | 8000      | 15000       | 40000       |
| 容许惯性力矩负荷<br>Allowable Overturning Moment Load | N.m     | 90                          | 200       | 320       | 400       | 640       | 1000        | 2200        |
| 旋转平台平面度 Table Flatness                        | mm      | ≤ 0.01                      |           |           |           |           |             | ≤ 0.02      |
| 旋转平台同心度 Table Concentricity                   | mm      | ≤ 0.01                      |           |           |           |           |             | ≤ 0.02      |
| 精度寿命 Accuracy Life                            | hr      | 12000                       |           |           |           |           |             |             |
| 保护等级 Ingress Protection                       | IP      | 50                          |           |           |           |           |             | 54          |
| 重量 Weight                                     | kg      | 9.5                         | 17.5      | 28        | 32        | 53        | 137         | 230         |

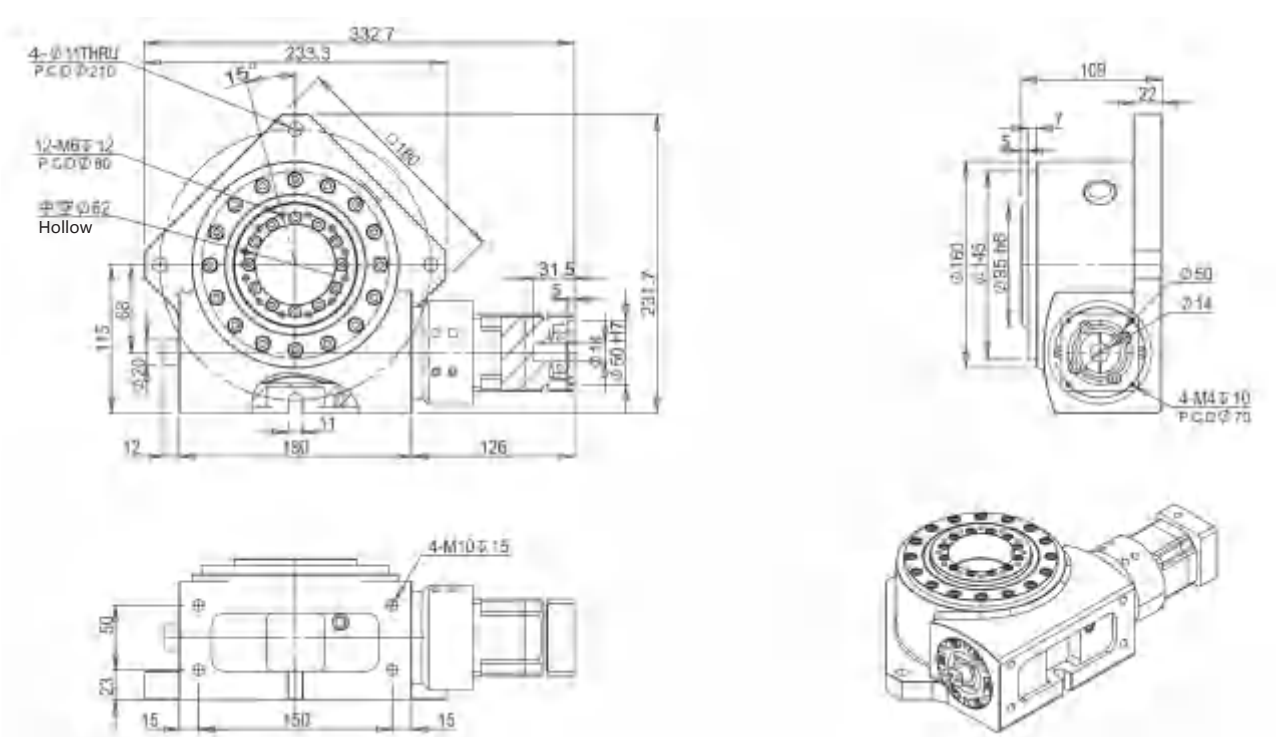
注 1：马达规格 / Note 1: Motor

| GYH48M                                                                                                                                                       | GYH68M | GYH82M                                                                                  | GYH90M | GYH115M                                                                               | GYH215M/GYH315M                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                  |        | SV1：伺服 Ø19 PCD90,M5<br>SV2：伺服 Ø19 PCD90,M6<br>适配各品牌 750W AC 伺服马达                        |        | SV1：伺服 Ø22 PCD145,M8<br>SV2：伺服 Ø24 PCD145,M8<br>适配各品牌 1000W AC 伺服马达                   | <div><div><div>( a - b - c - d )</div><div><div>a</div><div>b</div><div>c</div><div>d</div></div></div><div>马达输出轴直径<br/>Motor output shaft diameter<br/>马达止口直径<br/>Motor spigot diameter<br/>马达安装孔 PCD<br/>Motor mounting hole PCD<br/>马达安装螺纹孔<br/>Motor mounting threaded hole</div></div> |
| SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |        | SV1: Servo Ø19 PCD90,M5<br>SV2: Servo Ø19 PCD90,M6<br>Suit for 750W AC Servo Motor      |        |                                                                                       |                                                                                                                                                                                                                                                                                             |
| ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                 |        | ST1：步进 Ø14 PCD98.4,M5<br>ST2：步进 Ø14 PCD98.4,M6<br>适配各品牌 86 型步进马达                        |        | SV1: Servo Ø22 PCD145,M8<br>SV2: Servo Ø24 PCD145,M8<br>Suit for 1000W AC Servo Motor | 依据马达连接尺寸确认<br>According to motor mounting size<br>例 /e.g.:(19-70-90-M5)                                                                                                                                                                                                                     |
| ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |        | ST1: Stepper Ø14 PCD98.4,M5<br>ST2: Stepper Ø14 PCD98.4,M6<br>Suit for 86 Stepper Motor |        |                                                                                       |                                                                                                                                                                                                                                                                                             |

## ■ GYH48M-45K/60K/75K

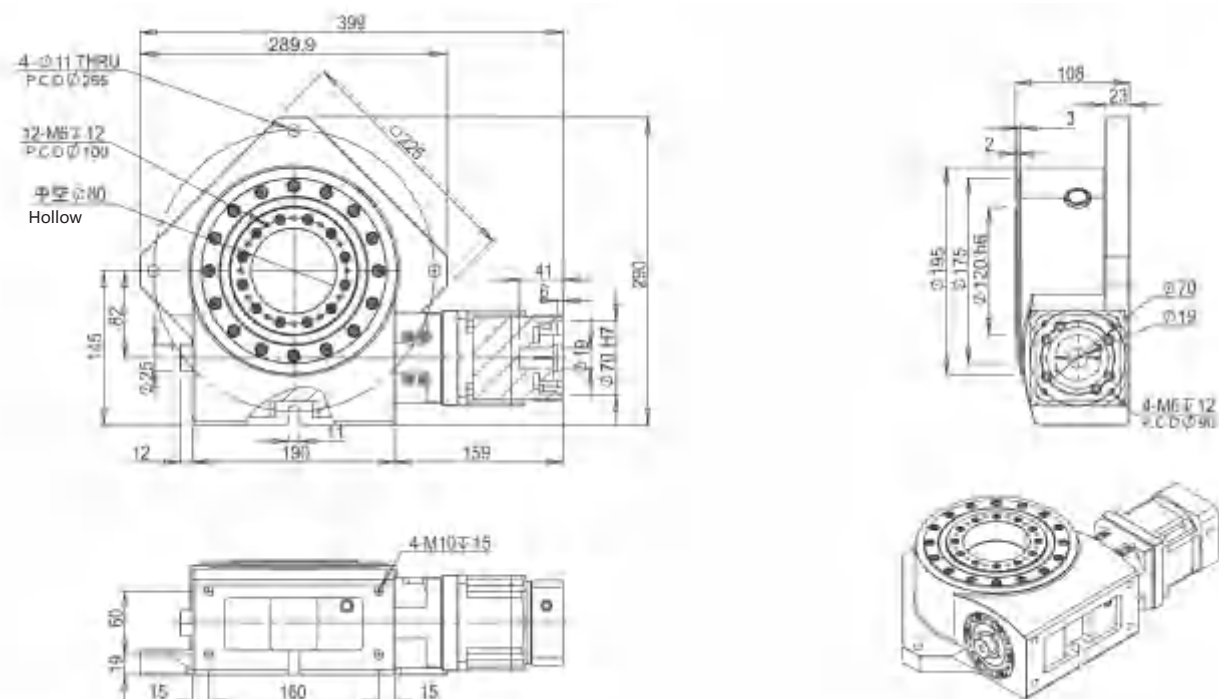


## ■ GYH68M-60K/80K/100K

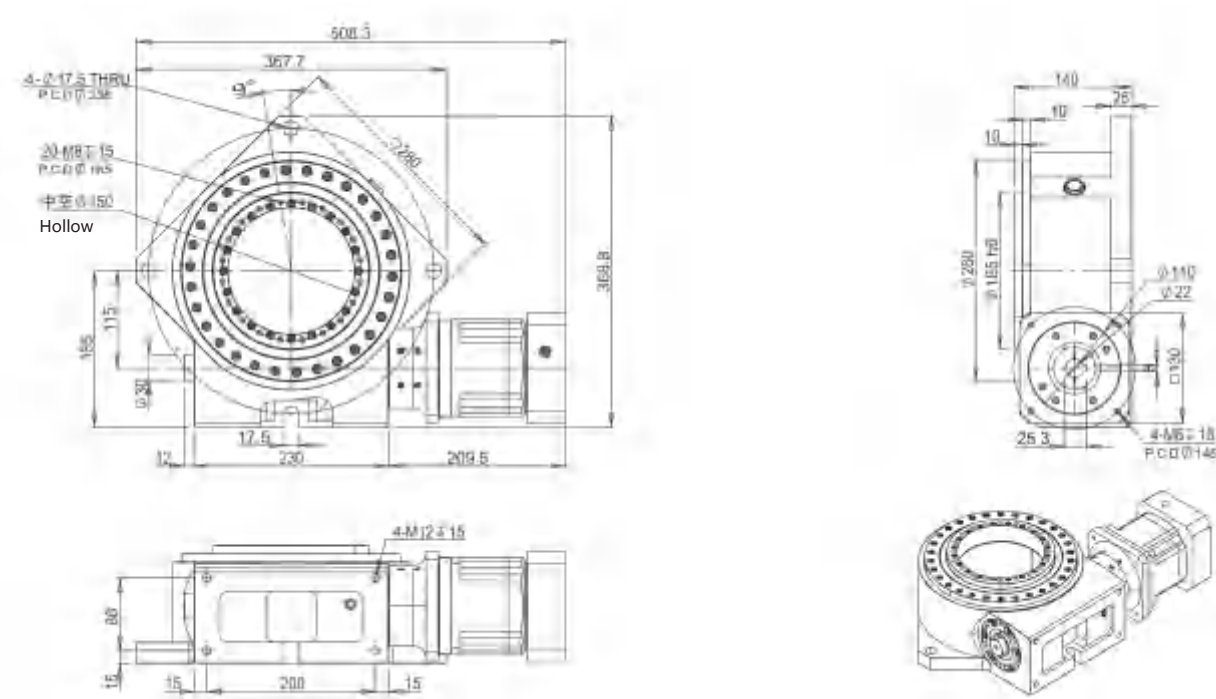




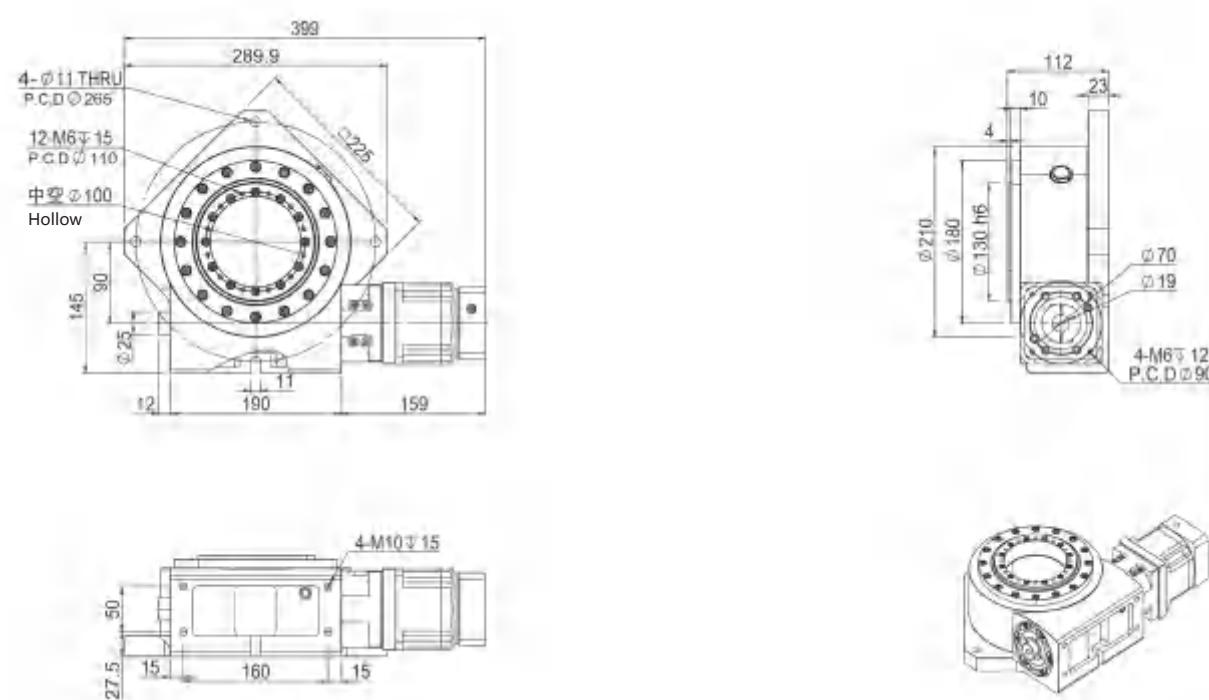
■ GYH82M-72K/96K/120K



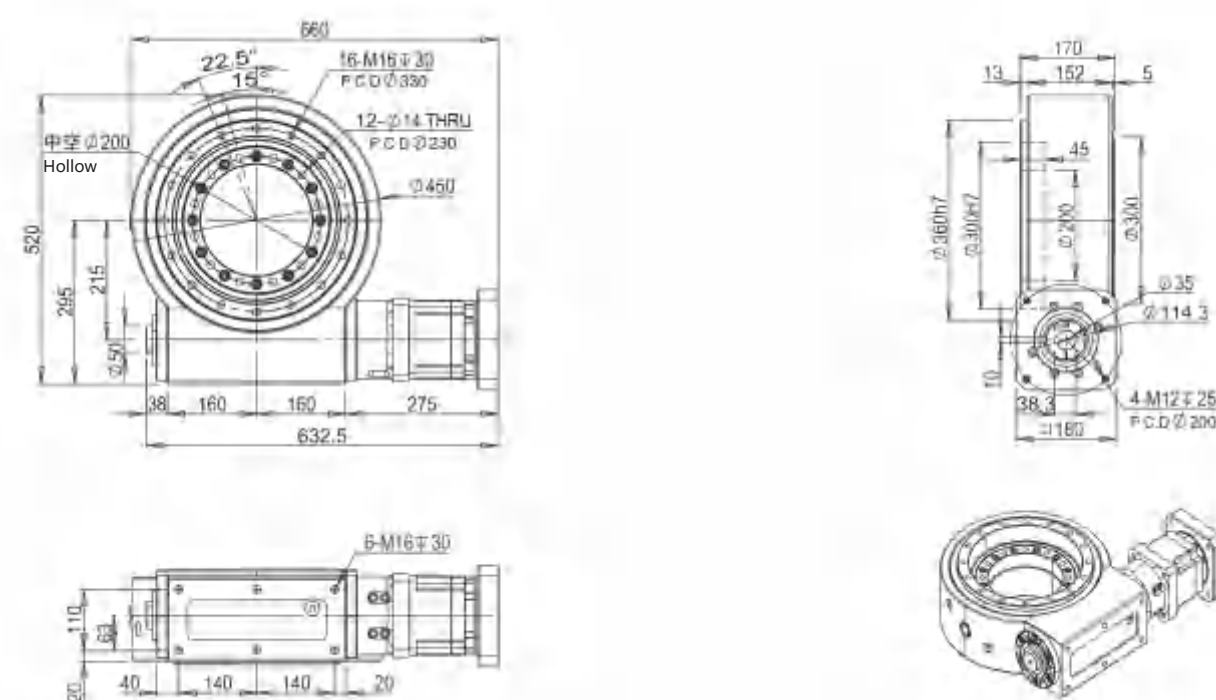
■ GYH115M-72K/96K/120K



■ GYH90M-60K/80K/100K



■ GYH215M-120K/160K/200K



GSH

GSR

GSHR

GSA

GR

**GYH**

GSN

GSB

GSG

技术手册  
Technical  
Manual

GSZ

GMR

GMC

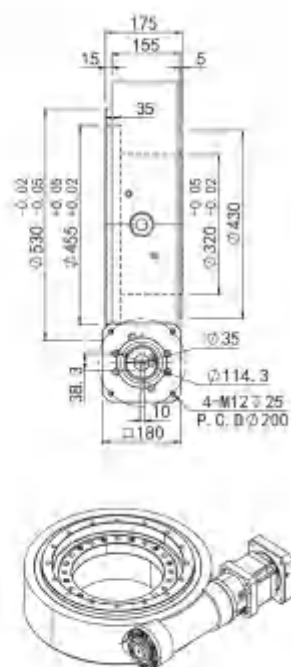
GMA

GML



## GSN 系列中空旋转平台

### GSN Series Hollow Rotary Table



**马达配置自由**  
可自由选配各品牌步进马达或伺服马达。

**More Options for Motor Equip**  
Stepper and servo motor could be equipped.



标准型  
Standard Model



标配开环步进马达  
Equip Open Loop Stepper Motor



直角式  
Right Angle



标配闭环步进马达  
Equip Closed Loop Stepper Motor



行星式  
Planetary

GSN60

| GSN            | 60         | M                                                | - | 05K          | - | SV1                                                                                   |
|----------------|------------|--------------------------------------------------|---|--------------|---|---------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                     |   | 减速比<br>Ratio |   | 马达规格<br>Motor                                                                         |
| GSH            | 60         | 无：标准型<br>Z：直角式<br>M：行星式                          |   |              |   | SV1：伺服 Ø8 PCD45,M3<br>SV2：伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                        |
|                | 85         |                                                  |   |              |   | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor      |
|                | 110        |                                                  |   |              |   |                                                                                       |
|                | 130        |                                                  |   |              |   | ST1：步进 Ø5 PCD43.8,M3<br>ST2：步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                        |
|                | 200        |                                                  |   |              |   | ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |
| GSHR           | 280        | None: Standard<br>Z: Right Angle<br>M: Planetary |   |              |   |                                                                                       |
| GSA            | 450        |                                                  |   |              |   | OS：标配开环步进马达<br>CS：标配闭环步进马达                                                            |
|                |            |                                                  |   |              |   | OS: Dedicated Open Loop Stepper Motor<br>CS: Dedicated Closed Loop Stepper Motor      |

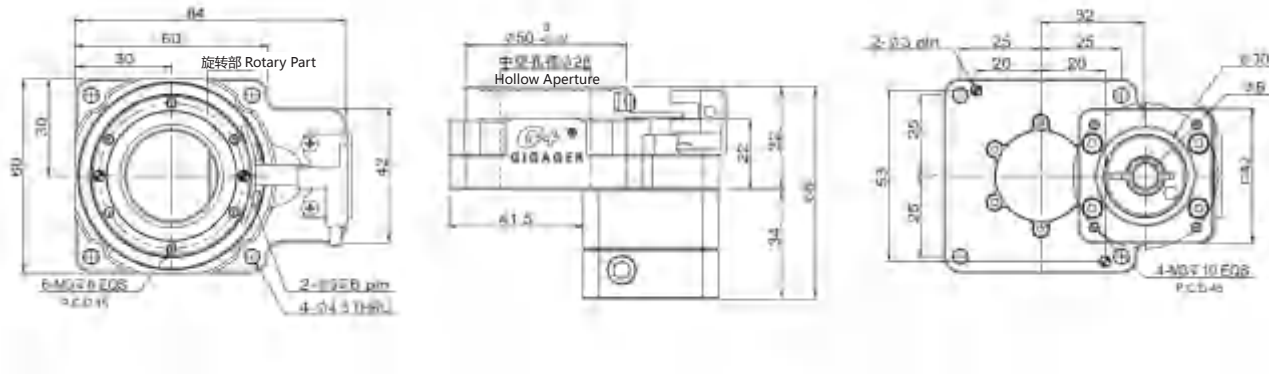
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           |         | 型号规格 Model                  |     |        |        |      |
|-------------------------------------|---------|-----------------------------|-----|--------|--------|------|
|                                     |         | GSN60                       |     | GSN60Z | GSN60M |      |
| 旋转平台轴承 Bearing of Rotary Table      |         | 交叉滚子轴承 Cross Roller Bearing |     |        |        |      |
| 减速比 Gear Ratio                      | i       | 5                           | 10  | 18     | 15     | 20   |
| 容许转矩 Allowable Torque               | N.m     | 5.2                         | 4.0 | 1.2    | 5.2    |      |
| 容许盘面转速 Allowable Table Speed        | rpm     | 200                         |     | 40     | 200    |      |
| 重复定位精度 Repeatability                | arc-sec | ≤ 10                        |     |        |        | ≤ 15 |
| 容许惯性力矩 Allowable Overturning Moment | N.m     | 5                           |     |        |        |      |
| 定位精度 Positioning Accuracy           | arc-min | ≤ 1                         |     |        |        |      |
| 容许轴向负载 Allowable Axial Load         | N       | 250                         |     |        |        |      |
| 旋转平台平面度 Table Flatness              | mm      | ≤ 0.01                      |     |        |        |      |
| 旋转平台同心度 Table Concentricity         | mm      | ≤ 0.01                      |     |        |        |      |
| 保护等级 Ingress Protection             | IP      | 40                          |     |        |        |      |
| 重量 Weight                           | kg      | 0.6                         |     |        | 1      | 1.1  |

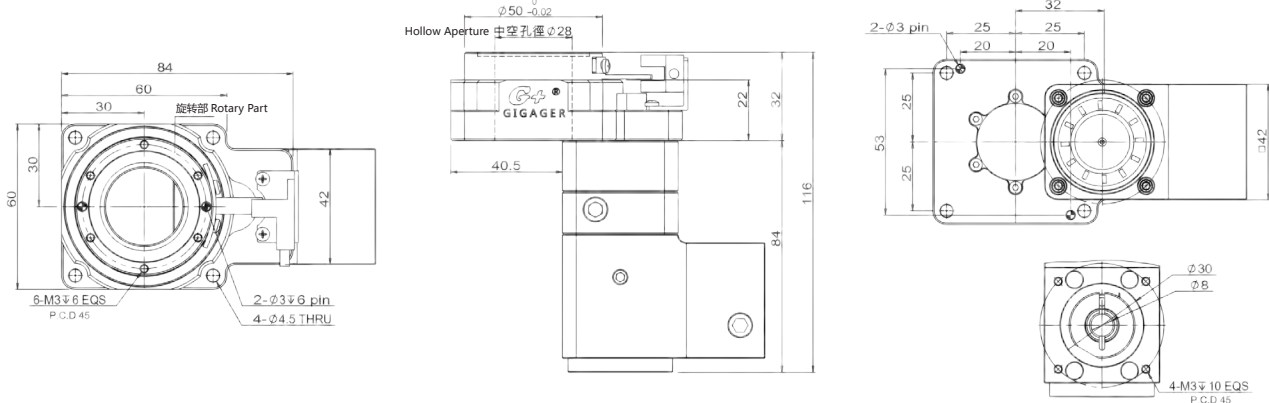
■ 马达 / 驱动器参数 Motor/Drive Parameters

| GML | 马达 / 驱动器参数<br>Motor/Drive Parameters | 型号规格 Model        |                                           |
|-----|--------------------------------------|-------------------|-------------------------------------------|
|     |                                      | GSN60-18K-OS      | GSN60-18K-CS                              |
|     | 外框尺寸 Frame Size                      | mm                | 28                                        |
|     | 额定电流 Rated Current                   | A/phase           | 1                                         |
|     | 线圈阻抗 Coil Impedance                  | Ω/phase           | 3.0                                       |
|     | 线圈感抗 Coil Inductive                  | mh                | 2.2                                       |
|     | 保持转矩 Holding Torque                  | N.m               | 0.14                                      |
|     | 转动惯量 Moment of Inertia               | g.cm <sup>2</sup> | 18                                        |
|     | 编码器解析度 Encoder Resolution            | P/R               | 2500                                      |
|     | 防护等级 Ingress Protection              | IP                | 20                                        |
|     | 步距角 Step Angle                       | °                 | 1.8                                       |
|     | 驱动器配置 Drive Configuration            | -                 | 专用驱动器 Dedicated Drive                     |
|     | 驱动器输入电压 Drive Input Voltage          | -                 | DC24V                                     |
|     | 驱动器指令输入形式 Drive Command Input Form   | -                 | 脉冲 + 方向 DC5V    Pulse + Direction    DC5V |

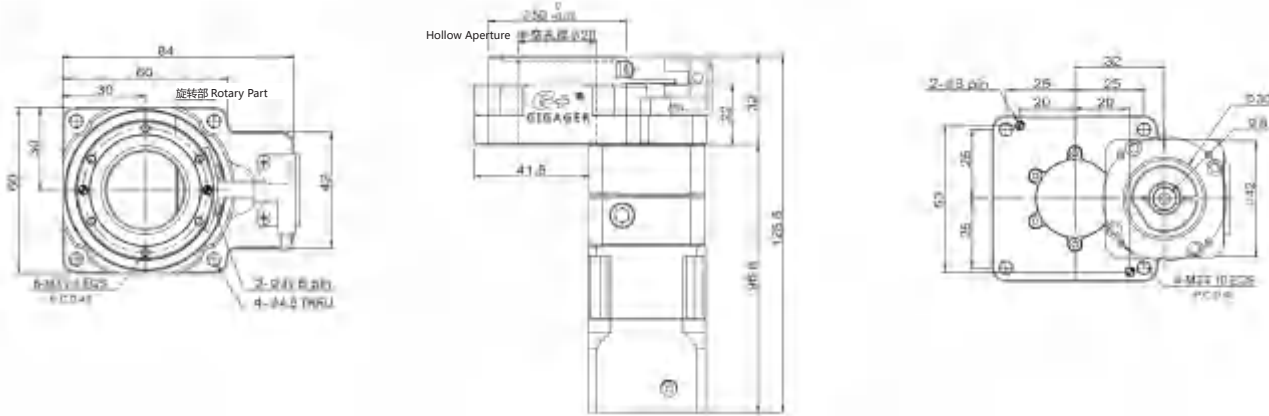
■ GSN60-05K



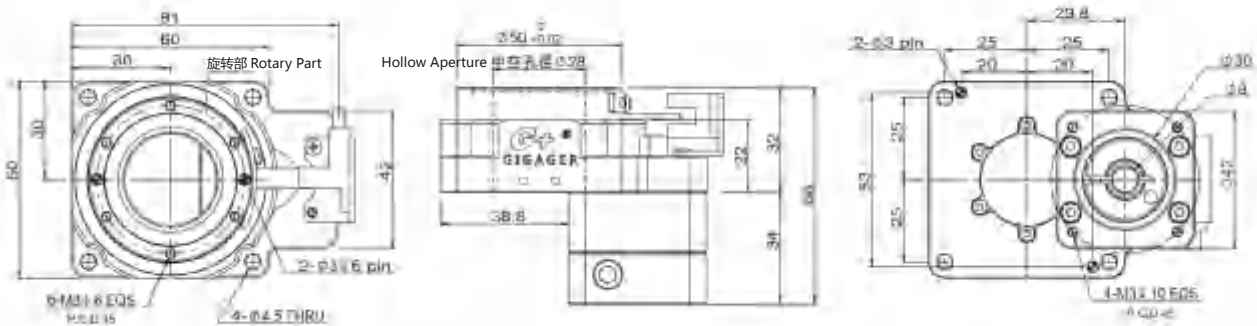
■ GSN60Z



■ GSN60M



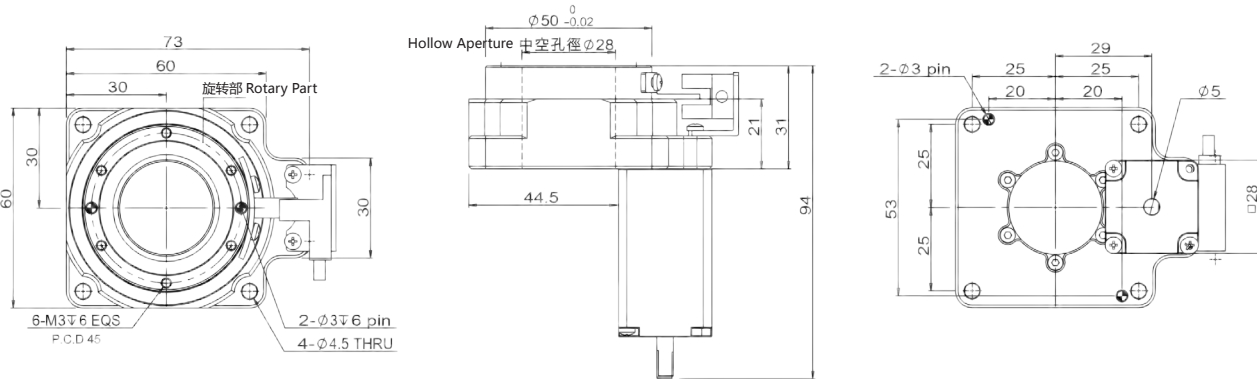
■ GSN60-10K



GSN85

| GSN            | 85         | M                                                                               | - 05K -      | SV1                                                                                                                                                          |
|----------------|------------|---------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                                                    | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                                |
|                | 60         | 无：标准型<br>Z：直角式<br>M：行星式<br><br>None: Standard<br>Z: Right Angle<br>M: Planetary |              | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                  |
|                | 85         |                                                                                 |              | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|                | 110        |                                                                                 |              |                                                                                                                                                              |
|                | 130        |                                                                                 |              | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                 |
|                | 200        |                                                                                 |              | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |
|                | 280        |                                                                                 |              |                                                                                                                                                              |
|                | 450        |                                                                                 |              |                                                                                                                                                              |

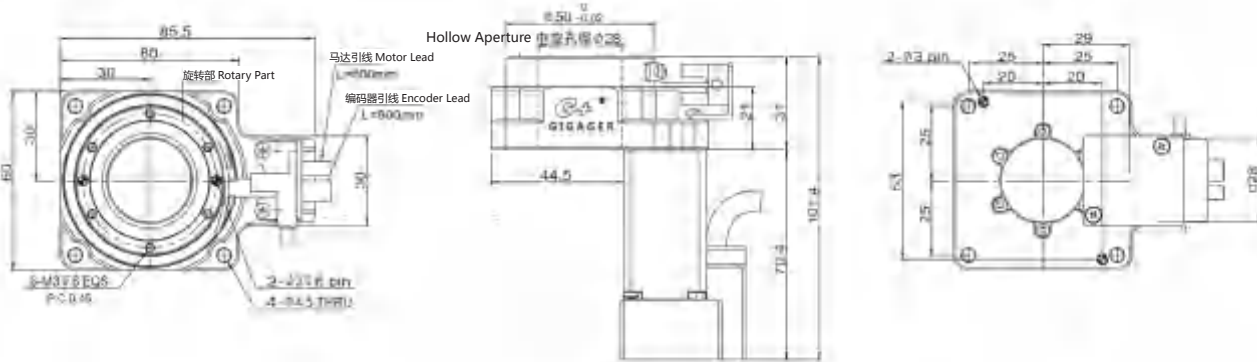
■ GSN60-18K-OS



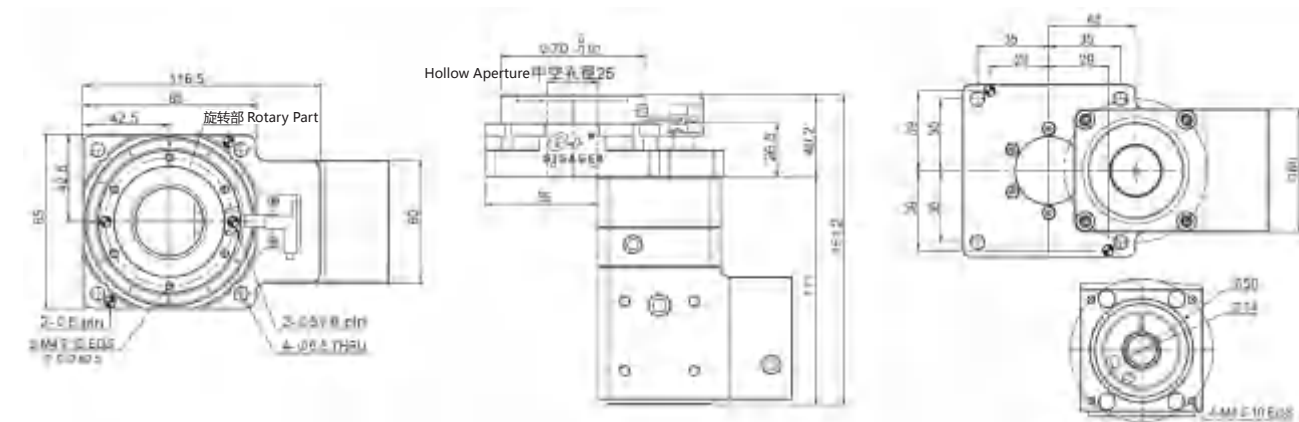
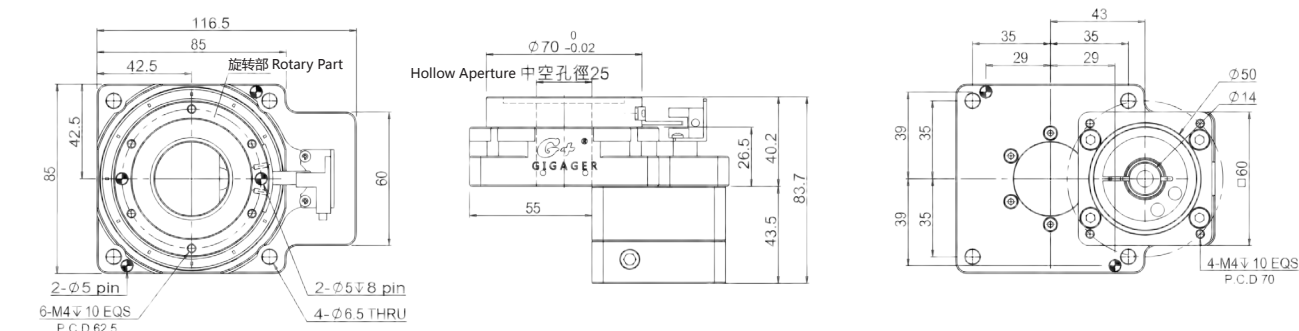
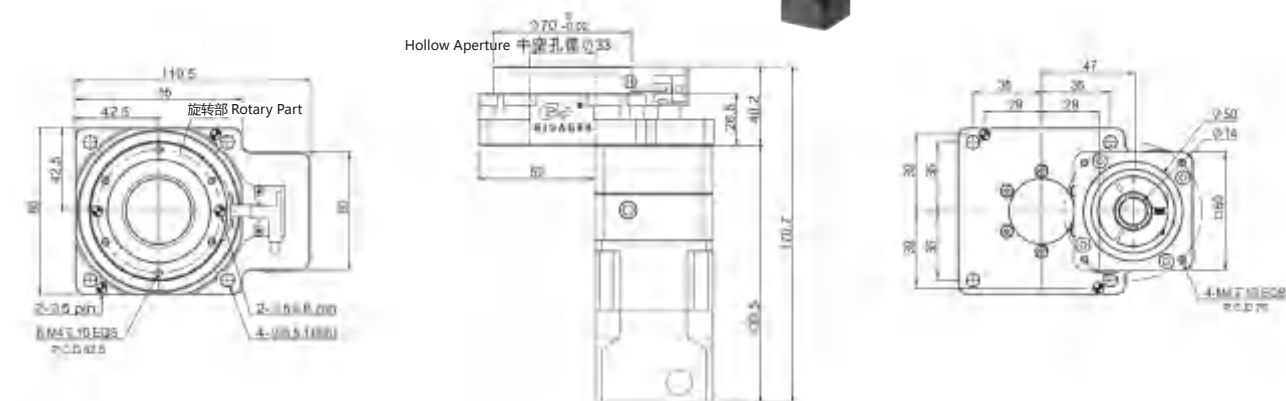
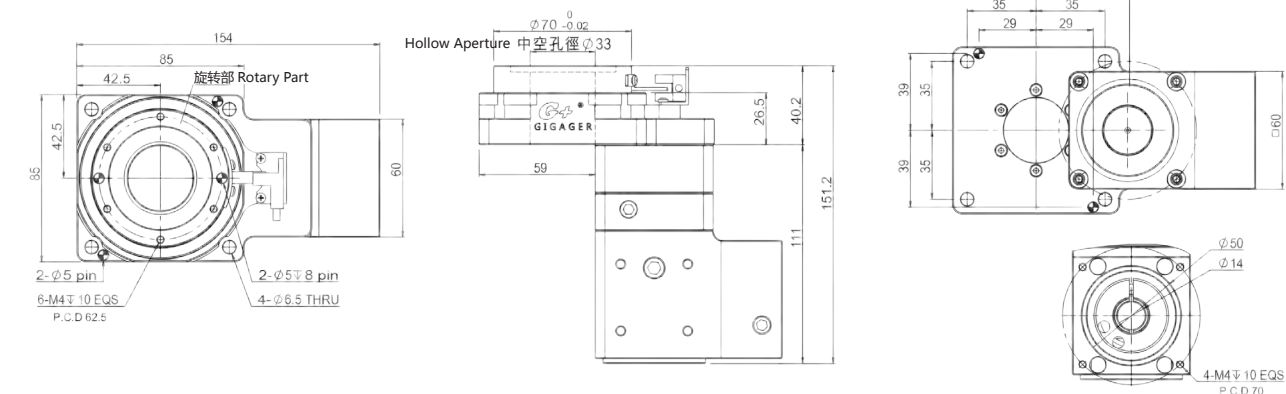
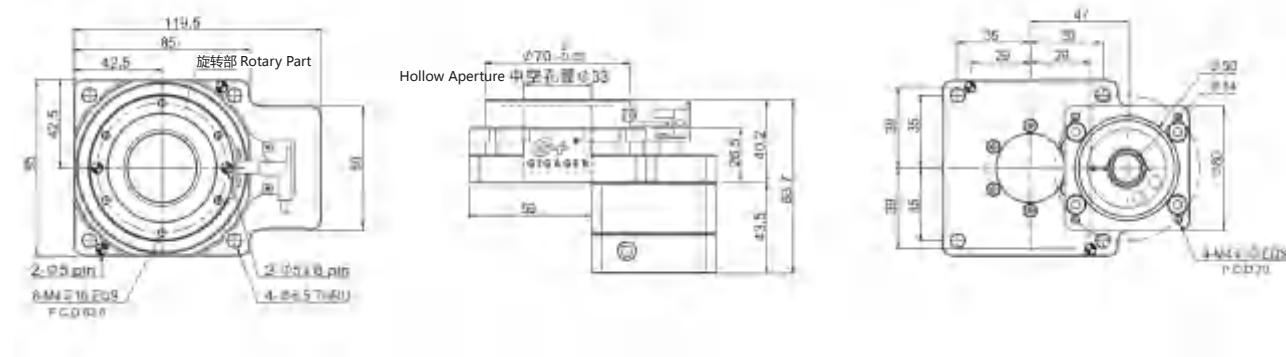
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters              |         | 型号规格 Model                  |    |        |    |    |    |      |        |    |    |    |
|----------------------------------------|---------|-----------------------------|----|--------|----|----|----|------|--------|----|----|----|
|                                        |         | GSN85                       |    | GSN85Z |    |    |    |      | GSN85M |    |    |    |
| 旋转平台轴承<br>Bearing of Rotary Table      |         | 交叉滚子轴承 Cross Roller Bearing |    |        |    |    |    |      |        |    |    |    |
| 减速比<br>Gear Ratio                      | i       | 5                           | 10 | 10     | 15 | 20 | 30 | 15   | 20     | 25 | 35 | 50 |
| 容许转矩<br>Allowable Torque               | N.m     | 20                          | 16 | 20     | 20 | 16 | 16 | 20   | 20     | 20 | 20 | 20 |
| 容许盘面转速<br>Allowable Table Speed        | rpm     | 200                         |    |        |    |    |    |      |        |    |    |    |
| 重复定位精度<br>Repeatability                | arc-sec | ≤ 10                        |    |        |    |    |    | ≤ 15 |        |    |    |    |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m     | 10                          |    |        |    |    |    |      |        |    |    |    |
| 定位精度<br>Positioning Accuracy           | arc-min | ≤ 1                         |    |        |    |    |    |      |        |    |    |    |
| 容许轴向负载<br>Allowable Axial Load         | N       | 500                         |    |        |    |    |    |      |        |    |    |    |
| 旋转平台平面度<br>Table Flatness              | mm      | ≤ 0.01                      |    |        |    |    |    |      |        |    |    |    |
| 旋转平台同心度<br>Table Concentricity         | mm      | ≤ 0.01                      |    |        |    |    |    |      |        |    |    |    |
| 保护等级<br>Ingress Protection             | IP      | 40                          |    |        |    |    |    |      |        |    |    |    |
| 重量<br>Weight                           | kg      | 1.4                         |    | 2.6    |    |    |    |      |        |    |    |    |

■ GSN60-18K-CS







■ **GSN85-18K**

[illegible]

■ **GSN85-18K-OS**

The technical drawing consists of three views of the GIGAGER motor assembly:

- Front View (Left):** Shows the circular face of the motor. Key dimensions include an outer diameter of 114.7 mm, an inner bore diameter of 85 mm, and a mounting flange diameter of 103 mm. The distance between mounting holes is 42.5 mm. Labels indicate the "旋轉部 Rotary Part" and "馬達引線 Motor Lead L=500mm". Mounting features include "2- $\phi 5$  pin" and "2- $\phi 5 \nabla 8$  pin".
- Side View (Middle):** Shows the profile of the motor. It includes a hollow aperture with a diameter of  $\phi 70_{-0.02}^0$  and a central hole diameter of  $\phi 33$ . The total height is 99.9 mm, with a base thickness of 63.7 mm and a main body height of 36.2 mm. A width dimension of 80 mm is also shown.
- Top View (Right):** Shows the square mounting plate. Dimensions include a total width of 39.2 mm, a central square area of 35 mm by 35 mm, and corner radii of 29 mm. A hole diameter of  $\phi 5$  is indicated.

■ **GSN85-18K-CS**

Technical drawings of the motor assembly showing front, side, and top views with dimensions and labels.

**Front View (Left):**

- Overall width: 103
- Overall height: 95
- Inner diameter: 42.5
- Outer diameter: 42.5
- Mounting holes: 2- $\phi 5$  pin
- Encoder lead holes: 2- $\phi 5.5$  pin
- Motor lead holes: 4- $\phi 6.5$  THRU
- Labels: 旋转部 Rotary Part, 马达引线 Motor Lead, 编码器引线 Encoder Lead
- Text: 6 MAT 10 EQE F.C.D 0.5.5

**Side View (Middle):**

- Overall height: 102.7
- Mounting hole diameter:  $\phi 7.0$
- Mounting hole spacing: 70
- Motor lead hole diameter:  $\phi 6.5$
- Encoder lead hole diameter:  $\phi 5.5$
- Label: HOLLOW APERTURE

**Top View (Right):**

- Overall width: 103
- Overall height: 95
- Mounting holes: 2- $\phi 5$  pin
- Encoder lead holes: 2- $\phi 5.5$  pin
- Motor lead holes: 4- $\phi 6.5$  THRU

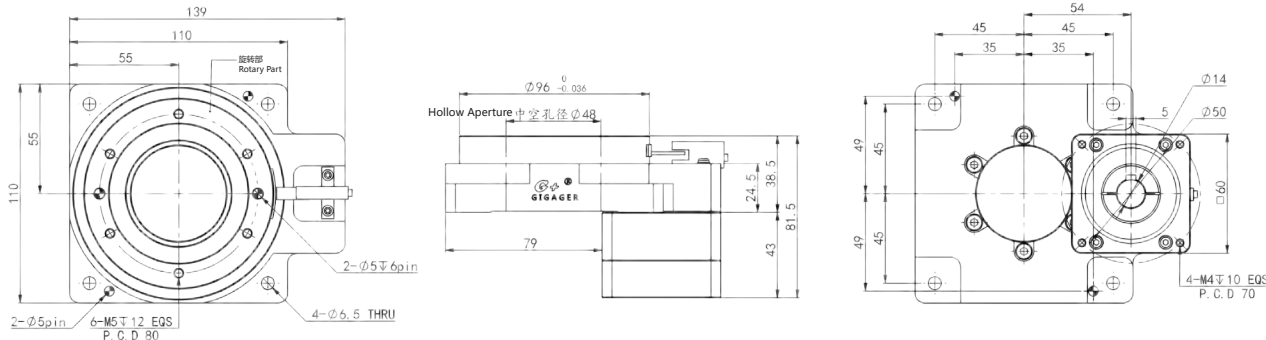
GSN110

| GSN            | 110                                         | M                                                                               | - | 10K          | - | SV1                                                                                                                                                                                                                                                                                   |
|----------------|---------------------------------------------|---------------------------------------------------------------------------------|---|--------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size                                  | 结构形式<br>Type                                                                    |   | 减速比<br>Ratio |   | 马达规格<br>Motor                                                                                                                                                                                                                                                                         |
| GSN            | 60<br>85<br>110<br>130<br>200<br>280<br>450 | 无：标准型<br>Z：直角式<br>M：行星式<br><br>None: Standard<br>Z: Right Angle<br>M: Planetary |   |              |   | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达<br><br>ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                                       |
|                |                                             |                                                                                 |   |              |   | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor<br><br>ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |

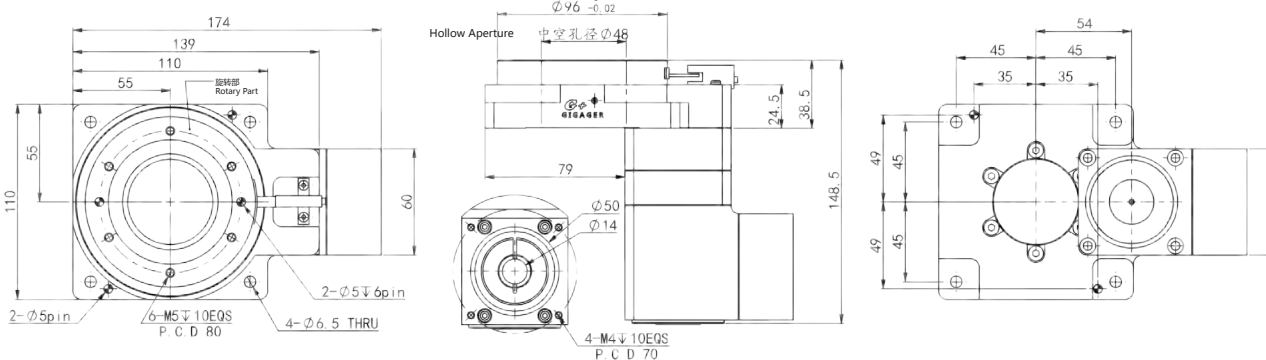
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           | 型号规格 Model                  |        |         |     |         |      |    |    |
|-------------------------------------|-----------------------------|--------|---------|-----|---------|------|----|----|
|                                     | GSN110                      |        | GSN110Z |     | GSN110M |      |    |    |
| 旋转平台轴承 Bearing of Rotary Table      | 交叉滚子轴承 Cross Roller Bearing |        |         |     |         |      |    |    |
| 减速比 Gear Ratio                      | i                           | 10     | 18      | 20  | 30      | 30   | 40 | 50 |
| 容许转矩 Allowable Torque               | N.m                         | 24     | 14      | 24  |         |      |    |    |
| 容许盘面转速 Allowable Table Speed        | rpm                         | 200    |         |     |         |      |    |    |
| 重复定位精度 Repeatability                | arc-sec                     | ≤ 10   |         |     |         | ≤ 15 |    |    |
| 容许慣性力矩 Allowable Overturning Moment | N.m                         | 30     |         |     |         |      |    |    |
| 定位精度 Positioning Accuracy           | arc-min                     | ≤ 1    |         |     |         |      |    |    |
| 容许轴向负载 Allowable Axial Load         | N                           | 1200   |         |     |         |      |    |    |
| 旋转平台平面度 Table Flatness              | mm                          | ≤ 0.01 |         |     |         |      |    |    |
| 旋转平台同心度 Table Concentricity         | mm                          | ≤ 0.01 |         |     |         |      |    |    |
| 保护等級 Ingress Protection             | IP                          | 40     |         |     |         |      |    |    |
| 重量 Weight                           | kg                          | 2      |         | 3.3 |         |      |    |    |

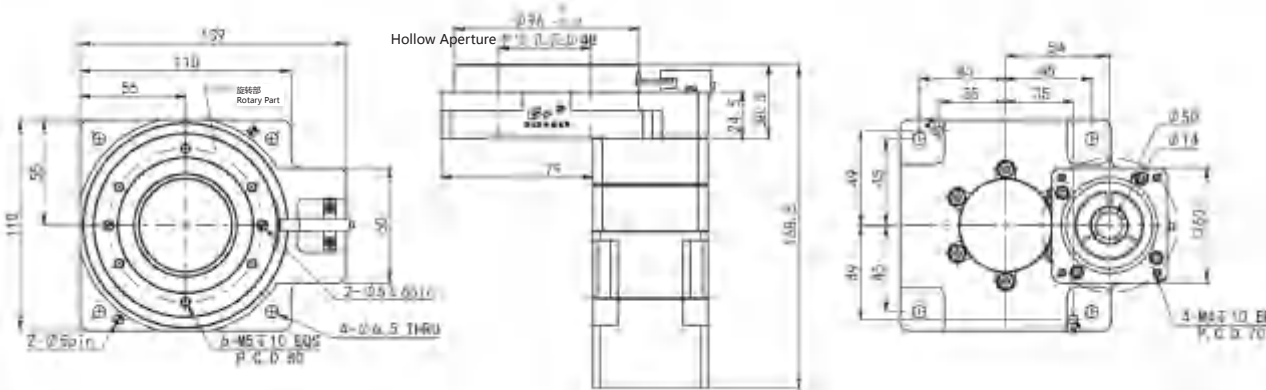
■ GSN110-10K/18K



■ GSN110Z-20K/30K



■ GSN110M-30K/40K/50K





GSN130

| GSN            | 130        | M                                                | - 10K -      | SV1                                                                                                                          |
|----------------|------------|--------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                     | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                |
| GSH            | 60         | 无：标准型<br>Z：直角式<br>M：行星式                          |              | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                  |
|                | 85         |                                                  |              |                                                                                                                              |
|                | 110        |                                                  |              |                                                                                                                              |
|                | 130        |                                                  |              |                                                                                                                              |
|                | 200        |                                                  |              |                                                                                                                              |
| GSR            | 280        | None: Standard<br>Z: Right Angle<br>M: Planetary |              | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达 |
| GSHR           | 450        |                                                  |              |                                                                                                                              |
| GSA            |            |                                                  |              | OS：标配开环步进马达<br>CS：标配闭环步进马达                                                                                                   |
| GR             |            |                                                  |              | OS: Dedicated Open Loop Stepper Motor<br>CS: Dedicated Closed Loop Stepper Motor                                             |
| GYH            |            |                                                  |              |                                                                                                                              |

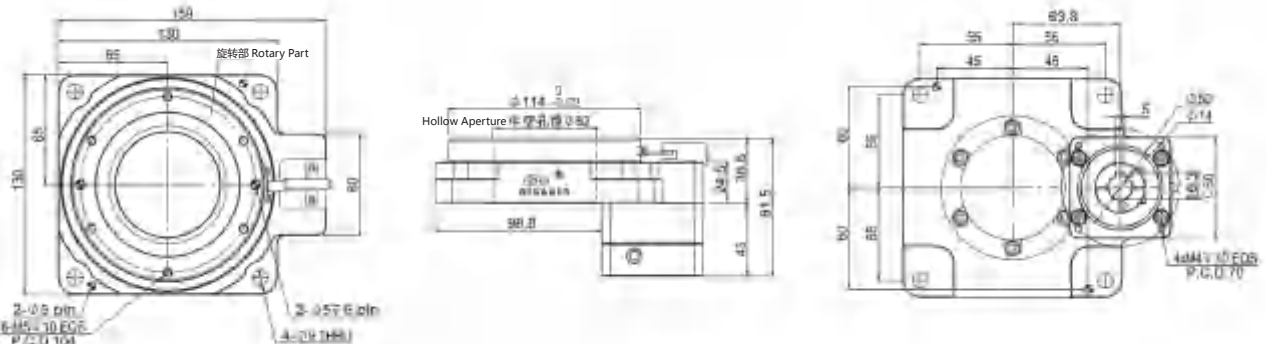
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           |         | 型号规格 Model                  |                       |         |     |         |    |    |
|-------------------------------------|---------|-----------------------------|-----------------------|---------|-----|---------|----|----|
|                                     |         | GSN130                      |                       | GSN130Z |     | GSN130M |    |    |
| 旋转平台轴承 Bearing of Rotary Table      |         | 交叉滚子轴承 Cross Roller Bearing |                       |         |     |         |    |    |
| 减速比 Gear Ratio                      | i       | 10                          | 18                    | 20      | 30  | 30      | 40 | 50 |
| 容许转矩 Allowable Torque               | N.m     | 40                          | 28                    | 40      |     |         |    |    |
| 容许盘面转速 Allowable Table Speed        | rpm     | 200                         | 150<br>OS:50 / CS:120 | 200     |     |         |    |    |
| 重复定位精度 Repeatability                | arc-sec | ≤ 10                        |                       |         |     | ≤ 15    |    |    |
| 容许慣性力矩 Allowable Overturning Moment | N.m     | 50                          |                       |         |     |         |    |    |
| 定位精度 Positioning Accuracy           | arc-min | ≤ 1                         |                       |         |     |         |    |    |
| 容许轴向负载 Allowable Axial Load         | N       | 2000                        |                       |         |     |         |    |    |
| 旋转平台平面度 Table Flatness              | mm      | ≤ 0.01                      |                       |         |     |         |    |    |
| 旋转平台同心度 Table Concentricity         | mm      | ≤ 0.01                      |                       |         |     |         |    |    |
| 保护等級 Ingress Protection             | IP      | 40                          |                       |         |     |         |    |    |
| 重量 Weight                           | kg      | 2.5<br>OS:3.1 / CS:3.3      |                       |         | 3.8 |         |    |    |

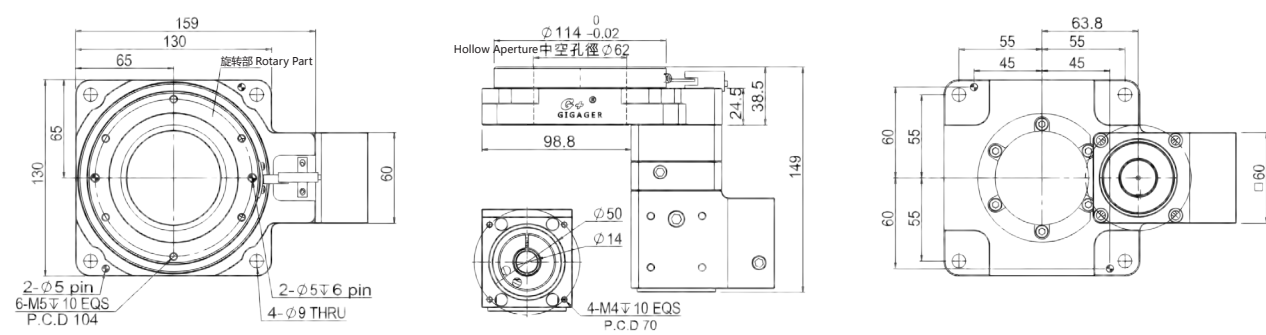
■ 马达 / 驱动器参数 Motor/Drive Parameters

| 马达 / 驱动器参数<br>Motor/Drive Parameters | 型号规格 Model        |                                        |
|--------------------------------------|-------------------|----------------------------------------|
|                                      | GSN130-18K-OS     | GSN130-18K-CS                          |
| 外框尺寸 Frame Size                      | mm                | 57                                     |
| 额定电流 Rated Current                   | A/phase           | 4.2                                    |
| 线圈阻抗 Coil Impedance                  | Ω/phase           | 1.2                                    |
| 线圈感抗 Coil Inductive                  | mh                | 4.2                                    |
| 保持转矩 Holding Torque                  | N.m               | 2.2                                    |
| 转动惯量 Moment of Inertia               | g.cm <sup>2</sup> | 460                                    |
| 编码器解析度 Encoder Resolution            | P/R               | - 2500                                 |
| 防护等级 Ingress Protection              | IP                | 20                                     |
| 步距角 Step Angle                       | °                 | 1.8                                    |
| 驱动器配置 Drive Configuration            | -                 | 专用驱动器 Dedicated Drive                  |
| 驱动器输入电压 Drive Input Voltage          | -                 | DC24V                                  |
| 驱动器指令输入形式 Drive Command Input Form   | -                 | 脉冲 + 方向 DC5V    Pulse + Direction DC5V |

■ GSN130-10K/18K



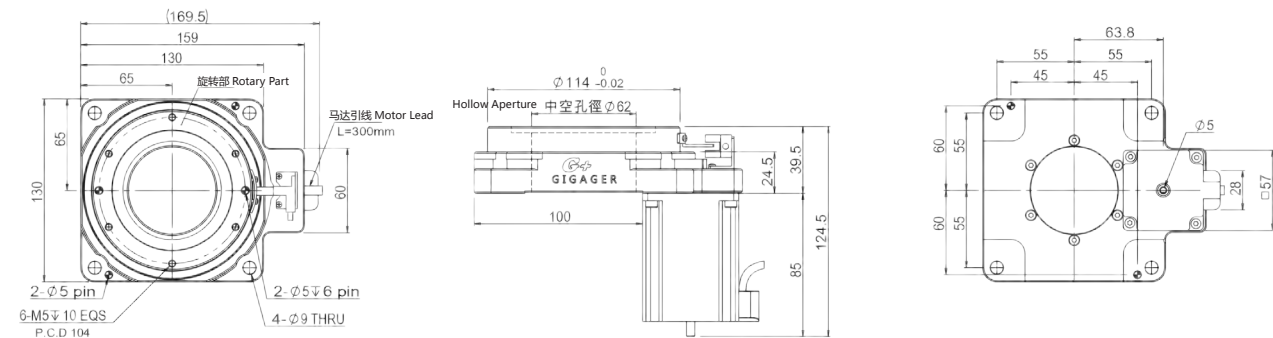
■ GSN130Z-20K/30K



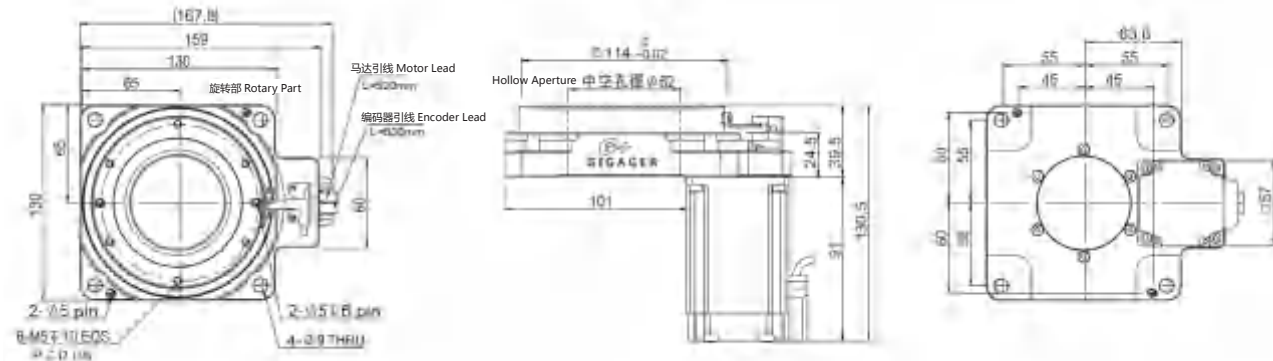
■ GSN130M-30K/40K/50K



GSN130-18K-OS



GSN130-18K-CS



GSN200

| GSN            | 200        | M                                                                               | - | 10K          | - | SV1                                                                                     |
|----------------|------------|---------------------------------------------------------------------------------|---|--------------|---|-----------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                                                    |   | 减速比<br>Ratio |   | 马达规格<br>Motor                                                                           |
|                | 60         | 无：标准型<br>Z：直角式<br>M：行星式<br><br>None: Standard<br>Z: Right Angle<br>M: Planetary |   |              |   | SV1：伺服 Ø19 PCD90,M5<br>SV2：伺服 Ø19 PCD90,M6<br>适配各品牌 750W AC 伺服马达                        |
|                | 85         |                                                                                 |   |              |   | SV1: Servo Ø19 PCD90,M5<br>SV2: Servo Ø19 PCD90,M6<br>Suit for 750W AC Servo Motor      |
|                | 110        |                                                                                 |   |              |   | ST1：步进 Ø14 PCD98.4,M5<br>ST2：步进 Ø14 PCD98.4,M6<br>适配各品牌 86 型步进马达                        |
|                | 130        |                                                                                 |   |              |   | ST1: Stepper Ø14 PCD98.4,M5<br>ST2: Stepper Ø14 PCD98.4,M6<br>Suit for 86 Stepper Motor |
|                | 200        |                                                                                 |   |              |   | OS：标配开环步进马达<br>CS：标配闭环步进马达                                                              |
|                | 280        |                                                                                 |   |              |   | OS: Dedicated Open Loop Stepper Motor<br>CS: Dedicated Closed Loop Stepper Motor        |
|                | 450        |                                                                                 |   |              |   |                                                                                         |

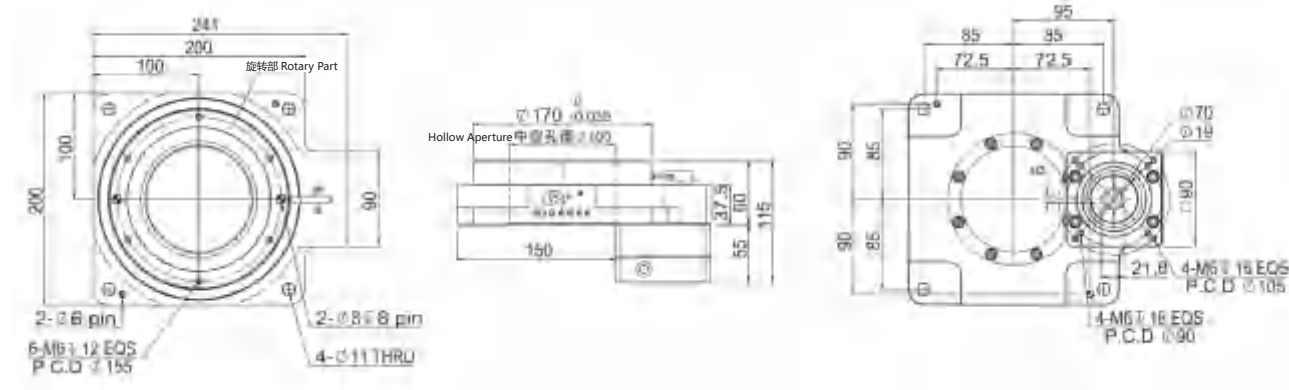
技术参数 Technical Parameters

| 技术参数 Technical Parameters           |         | 型号规格 Model                  |                       |  |         |    |         |    |    |
|-------------------------------------|---------|-----------------------------|-----------------------|--|---------|----|---------|----|----|
|                                     |         | GSN200                      |                       |  | GSN200Z |    | GSN200M |    |    |
| 旋转平台轴承 Bearing of Rotary Table      |         | 交叉滚子轴承 Cross Roller Bearing |                       |  |         |    |         |    |    |
| 减速比 Gear Ratio                      | i       | 10                          | 18                    |  | 20      | 30 | 30      | 40 | 50 |
| 容许转矩 Allowable Torque               | N.m     | 90                          | 65                    |  | 90      |    |         |    |    |
| 容许盘面转速 Allowable Table Speed        | rpm     | 200                         | 150<br>OS:60 / CS:120 |  | 200     |    |         |    |    |
| 重复定位精度 Repeatability                | arc-sec | ≤ 10                        |                       |  |         |    | ≤ 15    |    |    |
| 容许惯性力矩 Allowable Overturning Moment | N.m     | 100                         |                       |  |         |    |         |    |    |
| 定位精度 Positioning Accuracy           | arc-min | ≤ 1                         |                       |  |         |    |         |    |    |
| 容许轴向负载 Allowable Axial Load         | N       | 4000                        |                       |  |         |    |         |    |    |
| 旋转平台平面度 Table Flatness              | mm      | ≤ 0.01                      |                       |  |         |    |         |    |    |
| 旋转平台同心度 Table Concentricity         | mm      | ≤ 0.01                      |                       |  |         |    |         |    |    |
| 保护等级 Ingress Protection             | IP      | 40                          |                       |  |         |    |         |    |    |
| 重量 Weight                           | kg      | 7.8<br>OS:8.8 / CS:9.1      |                       |  | 12      |    | 11.5    |    |    |

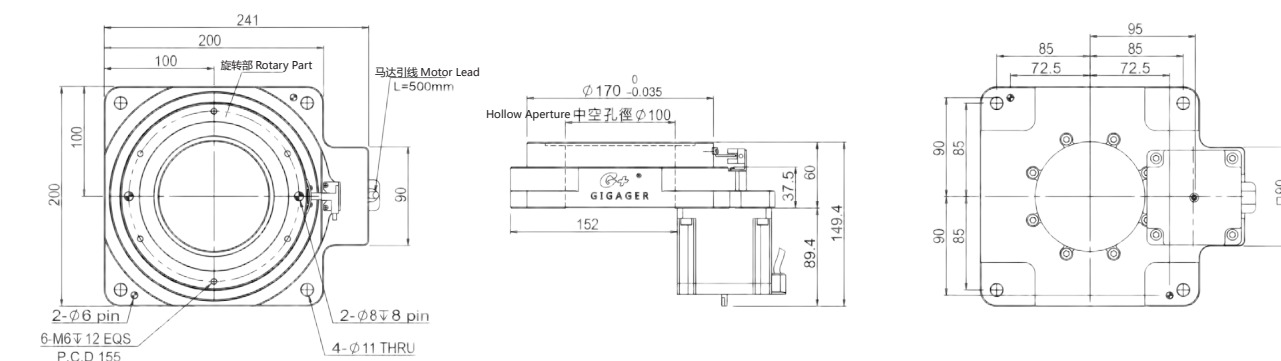
马达 / 驱动器参数 Motor/Drive Parameters

| 马达 / 驱动器参数<br>Motor/Drive Parameters | 型号规格 Model        |                                     |
|--------------------------------------|-------------------|-------------------------------------|
|                                      | GSN200-18K-OS     | GSN200-18K-CS                       |
| 外框尺寸 Frame Size                      | mm                | 86                                  |
| 额定电流 Rated Current                   | A/phase           | 5.6                                 |
| 线圈阻抗 Coil Impedance                  | Ω/phase           | 0.6                                 |
| 线圈感抗 Coil Inductive                  | mh                | 5.2                                 |
| 保持转矩 Holding Torque                  | N.m               | 4.2                                 |
| 转动惯量 Moment of Inertia               | g.cm <sup>2</sup> | 2500                                |
| 编码器解析度 Encoder Resolution            | P/R               | - 2500                              |
| 防护等级 Ingress Protection              | IP                | 20                                  |
| 步距角 Step Angle                       | °                 | 1.8                                 |
| 驱动器配置 Drive Configuration            | -                 | 专用驱动器 Dedicated Drive               |
| 驱动器输入电压 Drive Input Voltage          | -                 | DC48V                               |
| 驱动器指令输入形式 Drive Command Input Form   | -                 | 脉冲 + 方向 DC5V Pulse + Direction DC5V |

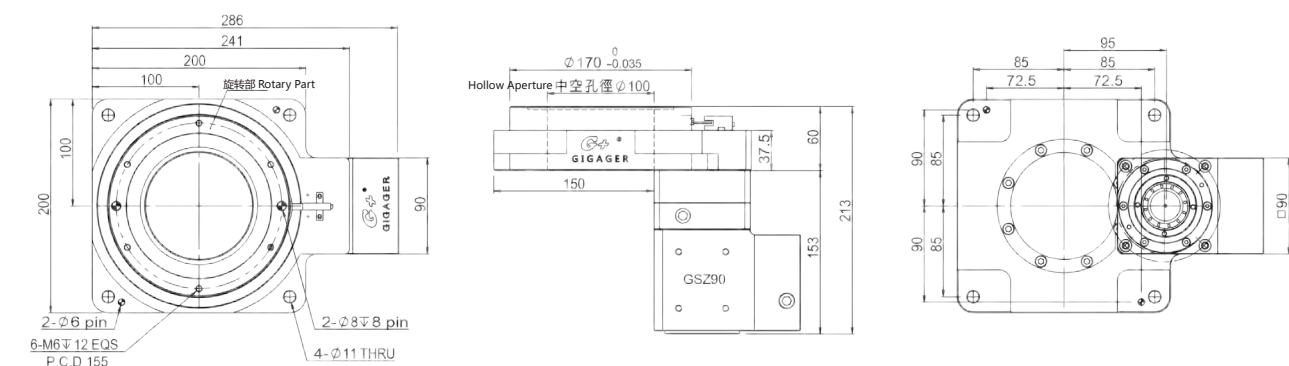
## ■ GSN200-10K/18K



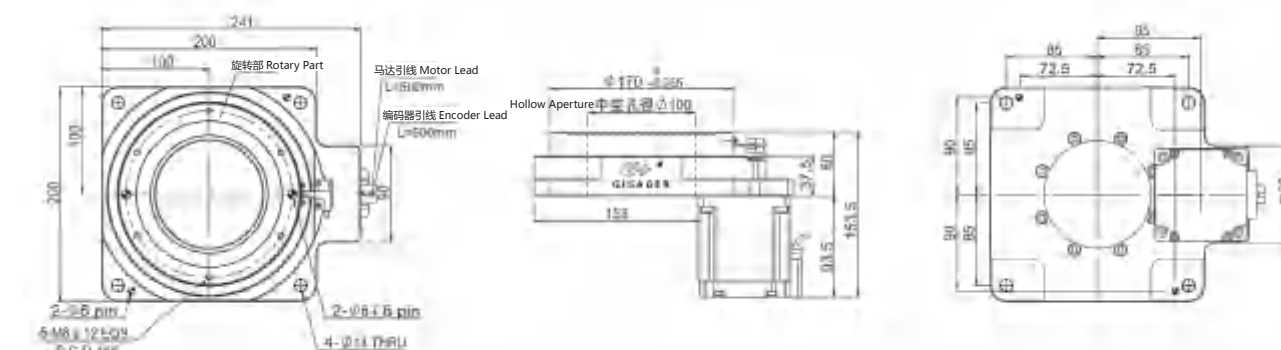
## ■ GSN200-18K-OS



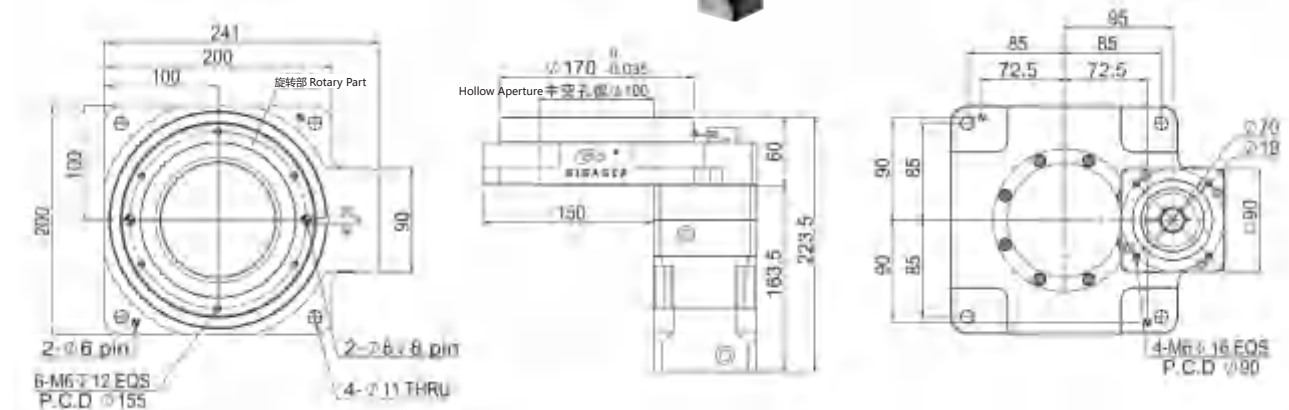
## ■ GSN200Z-20K/30K



## ■ GSN200-18K-CS



## ■ GSN200M-30K/40K/50K



GSH

GSR

GSHR

GSA

GR

GYH

GSN

GSB

GSG

技术手册  
Technical  
Manual

GSZ

GMR

GMC

GMA

GML



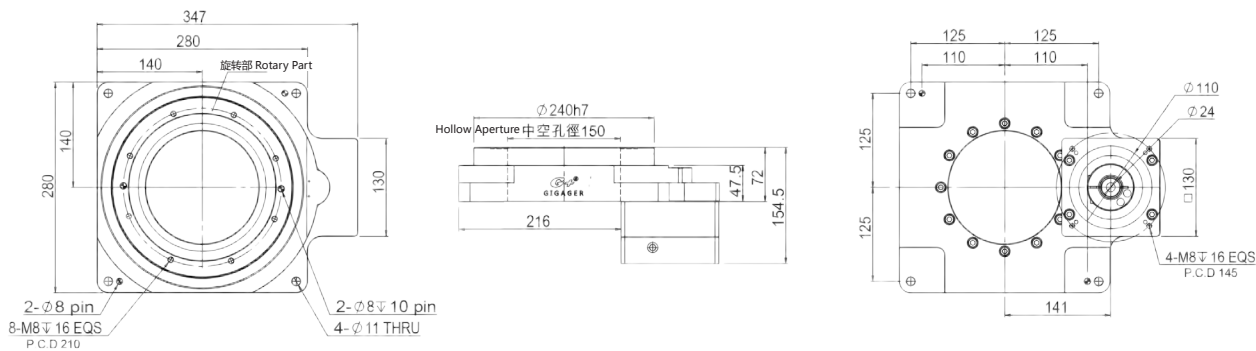
GSN280

| GSN            | 280        | -                             | 10K          | -                                                                   | SV1                                                                                   |  |  |  |
|----------------|------------|-------------------------------|--------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|--|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                  | 减速比<br>Ratio | 马达规格<br>Motor                                                       |                                                                                       |  |  |  |
|                | 60         | 无：标准型<br>M：行星式                |              | SV1：伺服 Ø22 PCD145,M8<br>SV2：伺服 Ø24 PCD145,M8<br>适配各品牌 1000W AC 伺服马达 | SV1: Servo Ø22 PCD145,M8<br>SV2: Servo Ø24 PCD145,M8<br>Suit for 1000W AC Servo Motor |  |  |  |
|                | 85         |                               |              |                                                                     |                                                                                       |  |  |  |
|                | 110        | None：Standard<br>M: Planetary |              |                                                                     |                                                                                       |  |  |  |
|                | 130        |                               |              |                                                                     |                                                                                       |  |  |  |
|                | 200        |                               |              |                                                                     |                                                                                       |  |  |  |
|                | 280        |                               |              |                                                                     |                                                                                       |  |  |  |
| 450            |            |                               |              |                                                                     |                                                                                       |  |  |  |

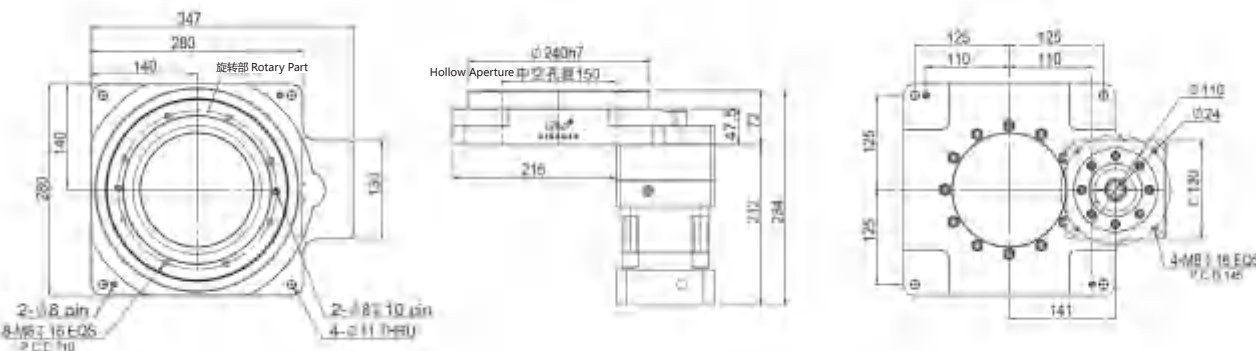
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           |         | 型号规格 Model                  |         |    |      |
|-------------------------------------|---------|-----------------------------|---------|----|------|
|                                     |         | GSN280                      | GSN280M |    |      |
| 旋转平台轴承 Bearing of Rotary Table      |         | 交叉滚子轴承 Cross Roller Bearing |         |    |      |
| 减速比 Gear Ratio                      | i       | 10                          | 30      | 40 | 50   |
| 容许转矩 Allowable Torque               | N.m     | 120                         |         |    |      |
| 容许盘面转速 Allowable Table Speed        | rpm     | 200                         |         |    |      |
| 重复定位精度 Repeatability                | arc-sec | ≤ 10                        |         |    | ≤ 15 |
| 容许惯性力矩 Allowable Overturning Moment | N.m     | 200                         |         |    |      |
| 定位精度 Positioning Accuracy           | arc-min | ≤ 1                         |         |    |      |
| 容许轴向负载 Allowable Axial Load         | N       | 8000                        |         |    |      |
| 旋转平台平面度 Table Flatness              | mm      | ≤ 0.01                      |         |    |      |
| 旋转平台同心度 Table Concentricity         | mm      | ≤ 0.01                      |         |    |      |
| 保护等级 Ingress Protection             | IP      | 40                          |         |    |      |
| 重量 Weight                           | kg      | 20                          | 28      |    |      |

■ GSN280-10K



■ GSN280M-30K/40K/50K



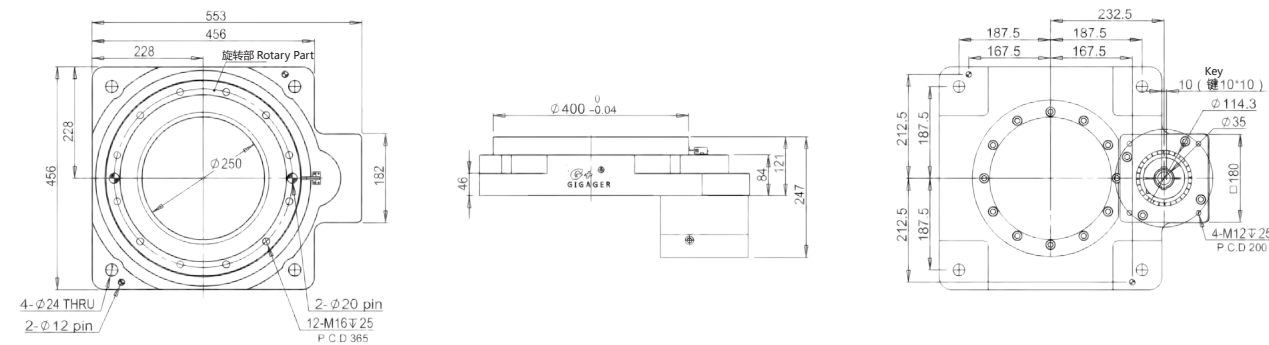
GSN450

| GSN         | 450                                     | -                                                   | 10K       | -                                                                                                                                                                                                                                                                                                                                                                    | ( <div><div>a</div><div>b</div><div>c</div><div>d</div></div> ) |   |                                        |   |                                 |   |                                      |   |                                         |
|-------------|-----------------------------------------|-----------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---|----------------------------------------|---|---------------------------------|---|--------------------------------------|---|-----------------------------------------|
| 系列代码 Series | 规格 Size                                 | 结构形式 Type                                           | 减速比 Ratio | 马达规格 Motor                                                                                                                                                                                                                                                                                                                                                           |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
|             | 60                                      | 无：标准型<br>M：行星式<br><br>None：Standard<br>M: Planetary |           | <table><tr><td>a</td><td>马达输出轴直径<br/>Motor output shaft diameter</td></tr><tr><td>b</td><td>马达止口直径<br/>Motor spigot diameter</td></tr><tr><td>c</td><td>马达安装孔 PCD<br/>Motor mounting hole PCD</td></tr><tr><td>d</td><td>马达安装螺纹孔<br/>Motor mounting threaded hole</td></tr></table> <p>依据马达连接尺寸确认<br/>According to motor mounting size<br/>例 /e.g.:(19-70-90-M5)</p> |                                                                 | a | 马达输出轴直径<br>Motor output shaft diameter | b | 马达止口直径<br>Motor spigot diameter | c | 马达安装孔 PCD<br>Motor mounting hole PCD | d | 马达安装螺纹孔<br>Motor mounting threaded hole |
| a           | 马达输出轴直径<br>Motor output shaft diameter  |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
| b           | 马达止口直径<br>Motor spigot diameter         |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
| c           | 马达安装孔 PCD<br>Motor mounting hole PCD    |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
| d           | 马达安装螺纹孔<br>Motor mounting threaded hole |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
|             | 85                                      |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
|             | 110                                     |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
|             | 130                                     |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
|             | 200                                     |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
|             | 280                                     |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |
|             | 450                                     |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |   |                                        |   |                                 |   |                                      |   |                                         |

■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           | 型号规格 Model                  |         |       |    |    |    |      |
|-------------------------------------|-----------------------------|---------|-------|----|----|----|------|
|                                     | GSN450                      | GSN450M |       |    |    |    |      |
| 旋转平台轴承 Bearing of Rotary Table      | 交叉滚子轴承 Cross Roller Bearing |         |       |    |    |    |      |
| 减速比 Gear Ratio                      | i                           | 10      | 30    | 40 | 50 | 70 | 100  |
| 容许转矩 Allowable Torque               | N.m                         | 380     |       |    |    |    |      |
| 容许盘面转速 Allowable Table Speed        | rpm                         | 150     |       |    |    |    |      |
| 重复定位精度 Repeatability                | arc-sec                     | ≤ 10    |       |    |    |    | ≤ 15 |
| 容许惯性力矩 Allowable Overturning Moment | N.m                         | 750     |       |    |    |    |      |
| 定位精度 Positioning Accuracy           | arc-min                     | ≤ 1     |       |    |    |    |      |
| 容许轴向负载 Allowable Axial Load         | N                           | 12000   |       |    |    |    |      |
| 旋转平台平面度 Table Flatness              | mm                          | ≤ 0.01  |       |    |    |    |      |
| 旋转平台同心度 Table Concentricity         | mm                          | ≤ 0.01  |       |    |    |    |      |
| 保护等级 Ingress Protection             | IP                          | 40      |       |    |    |    |      |
| 重量 Weight                           | kg                          | 86.5    | 103.5 |    |    |    |      |

■ GSN450-10K



■ GSN450M-30K/40K/50K/70K/100K





## GSB 系列中空旋转平台

### GSB Series Hollow Rotary Table



**中空结构**  
配线、配管更方便简洁。

**直接连接**  
可直接将工作台及机械手臂安装在旋转平台上。

**马达配置自由**  
可自由选配各品牌步进马达或伺服马达。

**寿命长**  
精度寿命可达 20000 小时。

**Hollow Structure**  
Easy to wiring and piping.

**Direct Connection**  
Rotary table can be directly installed with working table and robot arms.

**Multiple Options for Motor**  
Stepper and servo motor could be equipped.

**Long Life-span**  
The precision life can be reach 2000hrs.



标配开环步进马达  
Equip Open Loop Stepper Motor



直角式  
Right Angle



行星式  
Planetary

## GSB60

| GSB            | 60         | M                                                                               | - | 05K          | - | SV1                                                                                   |
|----------------|------------|---------------------------------------------------------------------------------|---|--------------|---|---------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                                                    |   | 减速比<br>Ratio |   | 马达规格<br>Motor                                                                         |
|                | 60         | 无：标准型<br>Z：直角式<br>M：行星式<br><br>None: Standard<br>Z: Right Angle<br>M: Planetary |   |              |   | SV1：伺服 Ø8 PCD45,M3<br>SV2：伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                        |
|                | 100        |                                                                                 |   |              |   | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor      |
|                | 130        |                                                                                 |   |              |   | ST1：步进 Ø5 PCD43.8,M3<br>ST2：步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                        |
|                | 200        |                                                                                 |   |              |   | ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |
|                |            |                                                                                 |   |              |   | OS：标配开环步进马达<br>OS: Dedicated Open Loop Stepper Motor                                  |

## 技术参数 Technical Parameters

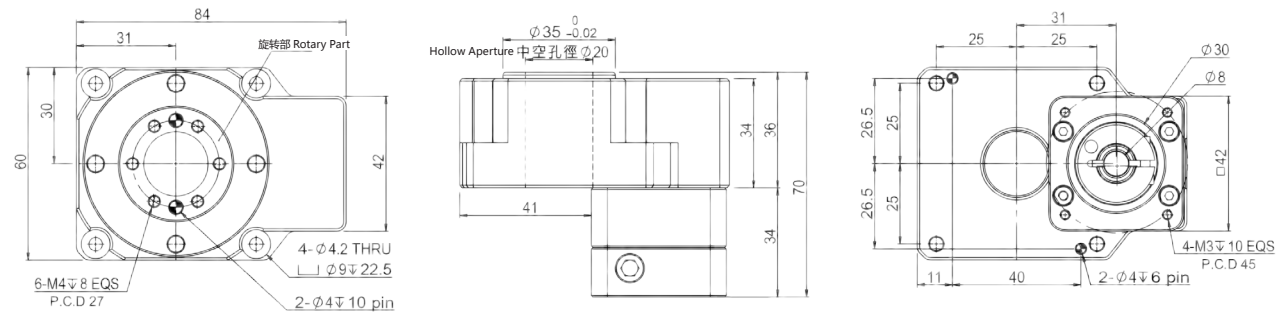
| 技术参数 Technical Parameters           | 型号规格 Model                    |              |        |
|-------------------------------------|-------------------------------|--------------|--------|
|                                     | GSB60                         | GSB60Z       | GSB60M |
| 旋转平台轴承 Bearing of Rotary Table      | 圆锥滚子轴承 Tapered Roller Bearing |              |        |
| 减速比 Gear Ratio                      | i                             | 5            | 15     |
| 容许转矩 Allowable Torque               | N.m                           | 5.3          | 5.3    |
| 容许盘面转速 Allowable Table Speed        | rpm                           | 200          |        |
| 重复定位精度 Repeatability                | arc-sec                       | ≤ 10         |        |
| 容许惯性力矩 Allowable Overturning Moment | N.m                           | 5            |        |
| 定位精度 Positioning Accuracy           | arc-min                       | ≤ 1          |        |
| 容许轴向负载 Allowable Axial Load         | N                             | 100          |        |
| 旋转平台平面度 Table Flatness              | mm                            | ≤ 0.01       |        |
| 旋转平台同心度 Table Concentricity         | mm                            | ≤ 0.01       |        |
| 保护等级 Ingress Protection             | IP                            | 40           |        |
| 重量 Weight                           | kg                            | 0.7 ( OS:1 ) | 1      |

## 马达参数 Motor

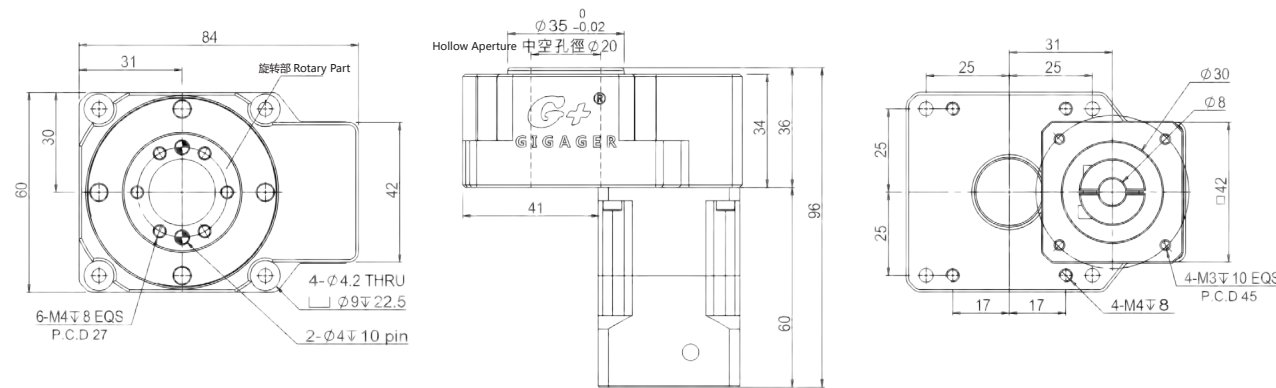
| 马达 / 驱动器参数<br>Motor/Drive Parameters | 型号规格 Model        |     |
|--------------------------------------|-------------------|-----|
|                                      | GSB60-05K-OS      |     |
| 外框尺寸 Frame Size                      | mm                | 42  |
| 额定电流 Rated Current                   | A/phase           | 1.3 |
| 线圈阻抗 Coil Impedance                  | Ω/phase           | 2.5 |
| 线圈感抗 Coil Inductive                  | mh                | 6.0 |
| 保持转矩 Holding Torque                  | N.m               | 0.6 |
| 转动惯量 Moment of Inertia               | g.cm <sup>2</sup> | 82  |
| 防护等级 Ingress Protection              | IP                | 20  |
| 步距角 Step Angle                       | °                 | 1.8 |



■ GSB60-05K



■ GSB60M-20K



■ GSB60Z-15K



■ GSB60-05K-OS



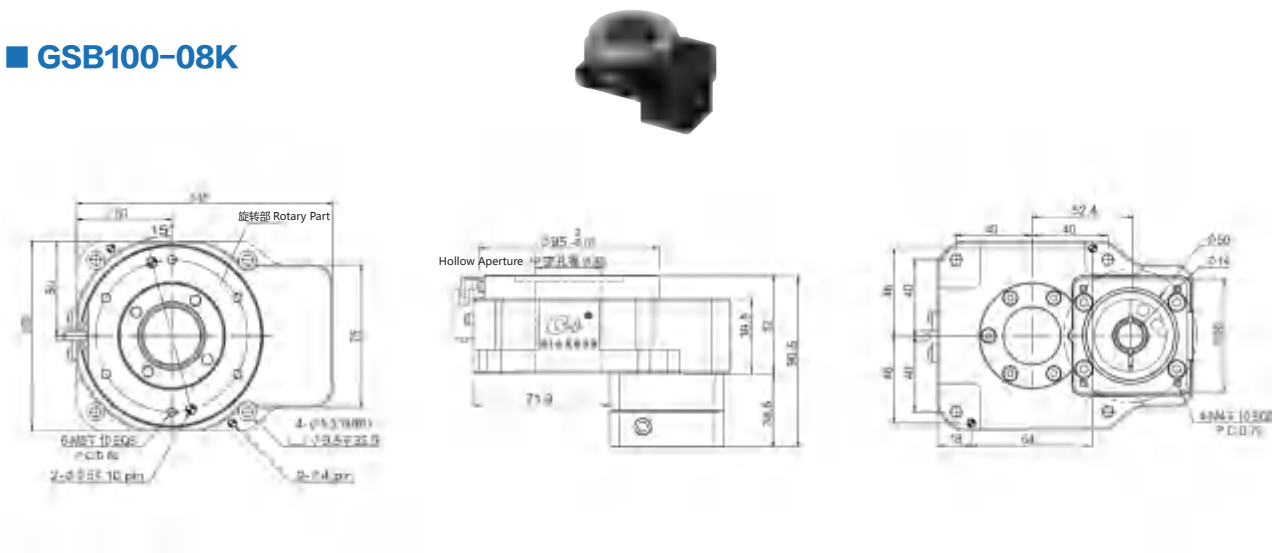
GSB100

| GSB            | 100        | M                                                | - 08K -      | SV1                                                                                                                                                          |
|----------------|------------|--------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                     | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                                |
|                | 60         | 无：标准型<br>Z：直角式<br>M：行星式                          |              | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                  |
|                | 100        |                                                  |              |                                                                                                                                                              |
|                | 130        |                                                  |              |                                                                                                                                                              |
|                | 200        |                                                  |              |                                                                                                                                                              |
|                |            | None: Standard<br>Z: Right Angle<br>M: Planetary |              | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                 |
|                |            |                                                  |              | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|                |            |                                                  |              | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |

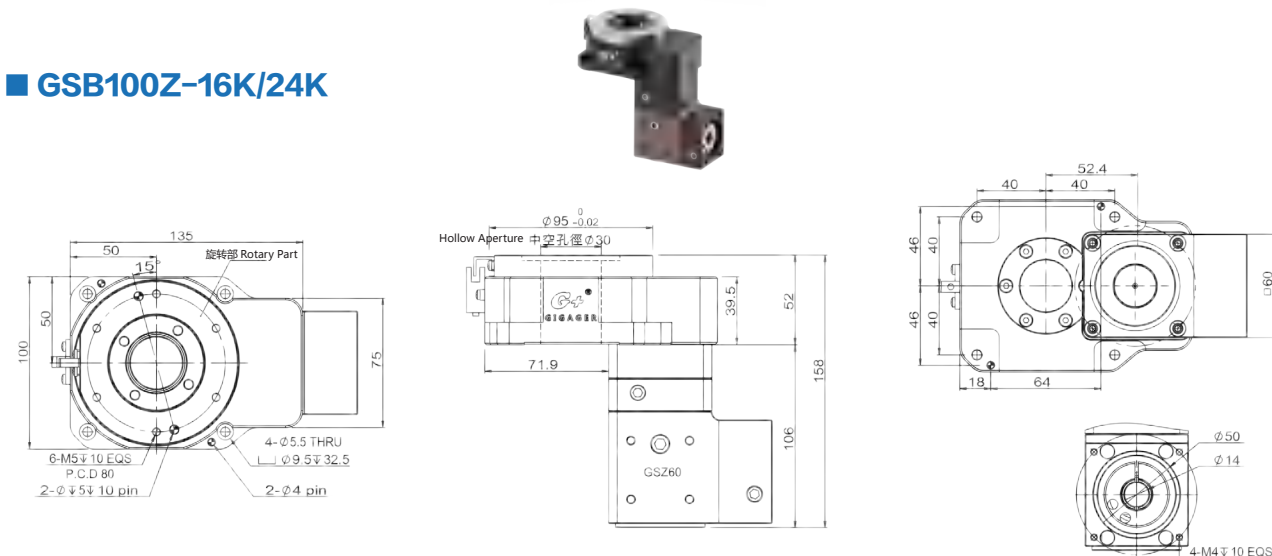
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters              | 型号规格 Model                    |         |    |    |         |    |    |
|----------------------------------------|-------------------------------|---------|----|----|---------|----|----|
|                                        | GSB100                        | GSB100Z |    |    | GSB100M |    |    |
| 旋转平台轴承<br>Bearing of Rotary Table      | 圆锥滚子轴承 Tapered Roller Bearing |         |    |    |         |    |    |
| 减速比<br>Gear Ratio                      | i                             | 8       | 16 | 24 | 24      | 32 | 40 |
| 容许转矩<br>Allowable Torque               | N.m                           | 26      |    |    |         |    |    |
| 容许盘面转速<br>Allowable Table Speed        | rpm                           | 200     |    |    |         |    |    |
| 重复定位精度<br>Repeatability                | arc-sec                       | ≤ 10    |    |    | ≤ 15    |    |    |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                           | 50      |    |    |         |    |    |
| 定位精度<br>Positioning Accuracy           | arc-min                       | ≤ 1     |    |    |         |    |    |
| 容许轴向负载<br>Allowable Axial Load         | N                             | 700     |    |    |         |    |    |
| 旋转平台平面度<br>Table Flatness              | mm                            | ≤ 0.01  |    |    |         |    |    |
| 旋转平台同心度<br>Table Concentricity         | mm                            | ≤ 0.01  |    |    |         |    |    |
| 保护等级<br>Ingress Protection             | IP                            | 40      |    |    |         |    |    |
| 重量<br>Weight                           | kg                            | 2.7     | 4  |    |         |    |    |

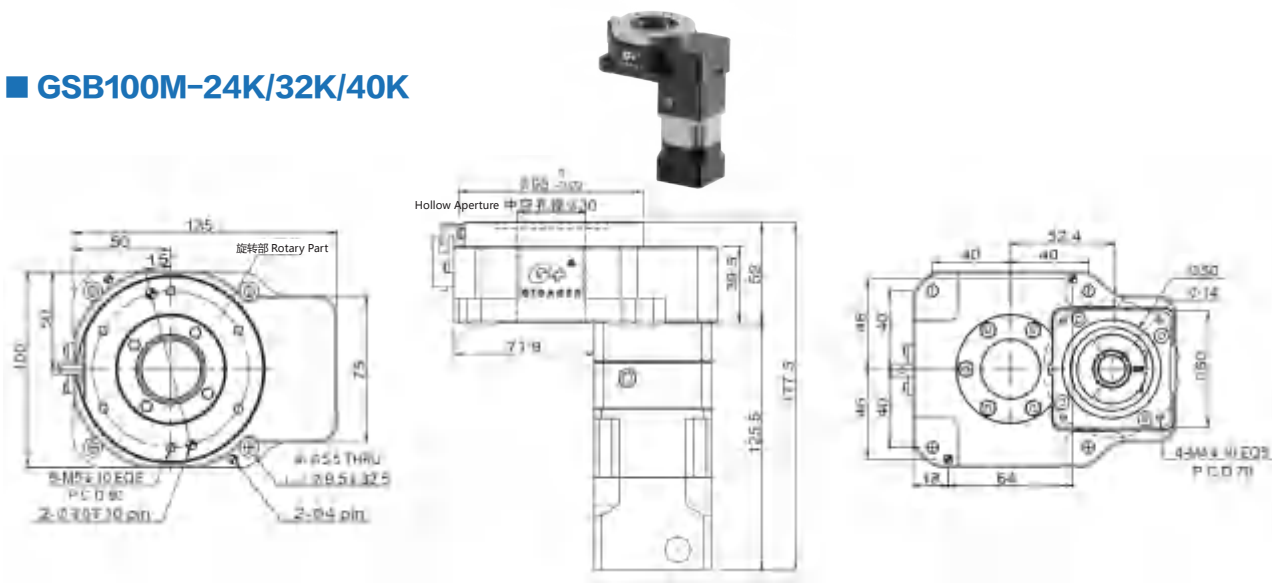
■ GSB100-08K



■ GSB100Z-16K/24K



■ GSB100M-24K/32K/40K



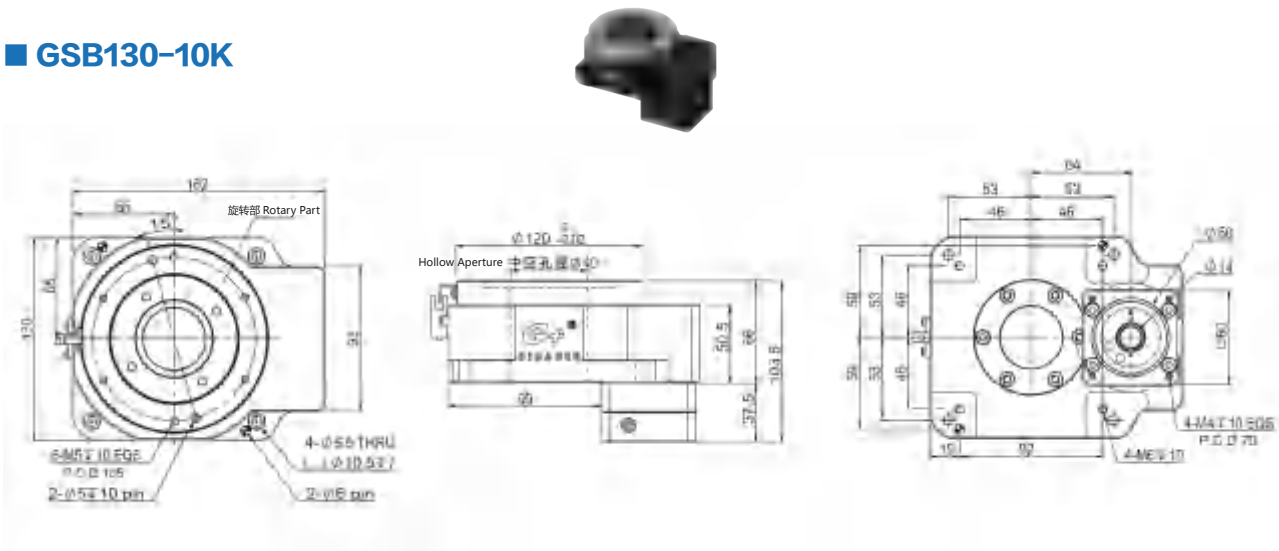
GSB130

| GSB            | 130        | M                                                | - | 10K          | - | SV1                                                                                                                                                          |
|----------------|------------|--------------------------------------------------|---|--------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                     |   | 减速比<br>Ratio |   | 马达规格<br>Motor                                                                                                                                                |
|                | 60         | 无：标准型<br>Z：直角式<br>M：行星式                          |   |              |   |                                                                                                                                                              |
|                | 100        |                                                  |   |              |   |                                                                                                                                                              |
|                | 130        |                                                  |   |              |   |                                                                                                                                                              |
|                | 200        |                                                  |   |              |   |                                                                                                                                                              |
|                |            | None: Standard<br>Z: Right Angle<br>M: Planetary |   |              |   |                                                                                                                                                              |
|                |            |                                                  |   |              |   | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                  |
|                |            |                                                  |   |              |   | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                            |
|                |            |                                                  |   |              |   | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达                                 |
|                |            |                                                  |   |              |   | ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |

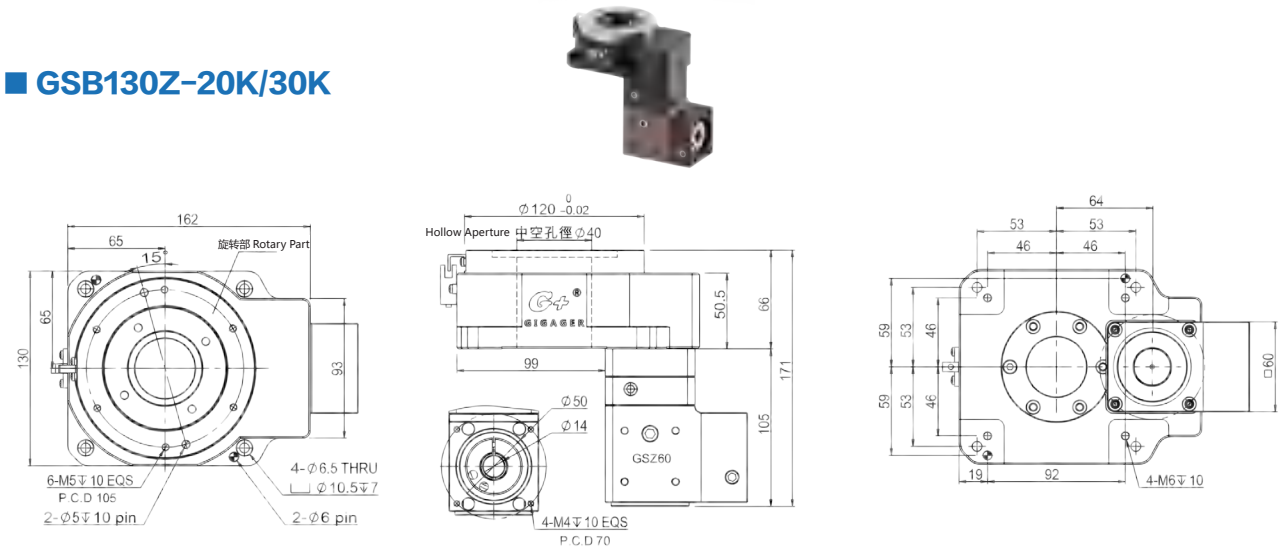
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters              | 型号规格 Model                    |         |     |    |         |    |    |
|----------------------------------------|-------------------------------|---------|-----|----|---------|----|----|
|                                        | GSB130                        | GSB130Z |     |    | GSB130M |    |    |
| 旋转平台轴承<br>Bearing of Rotary Table      | 圆锥滚子轴承 Tapered Roller Bearing |         |     |    |         |    |    |
| 减速比<br>Gear Ratio                      | i                             | 10      | 20  | 30 | 30      | 40 | 50 |
| 容许转矩<br>Allowable Torque               | N.m                           | 48      |     |    |         |    |    |
| 容许盘面转速<br>Allowable Table Speed        | rpm                           | 200     |     |    |         |    |    |
| 重复定位精度<br>Repeatability                | arc-sec                       | ≤ 10    |     |    | ≤ 15    |    |    |
| 容许惯性力矩<br>Allowable Overturning Moment | N.m                           | 60      |     |    |         |    |    |
| 定位精度<br>Positioning Accuracy           | arc-min                       | ≤ 1     |     |    |         |    |    |
| 容许轴向负载<br>Allowable Axial Load         | N                             | 1000    |     |    |         |    |    |
| 旋转平台平面度<br>Table Flatness              | mm                            | ≤ 0.01  |     |    |         |    |    |
| 旋转平台同心度<br>Table Concentricity         | mm                            | ≤ 0.01  |     |    |         |    |    |
| 保护等级<br>Ingress Protection             | IP                            | 40      |     |    |         |    |    |
| 重量<br>Weight                           | kg                            | 5       | 6.3 |    |         |    |    |

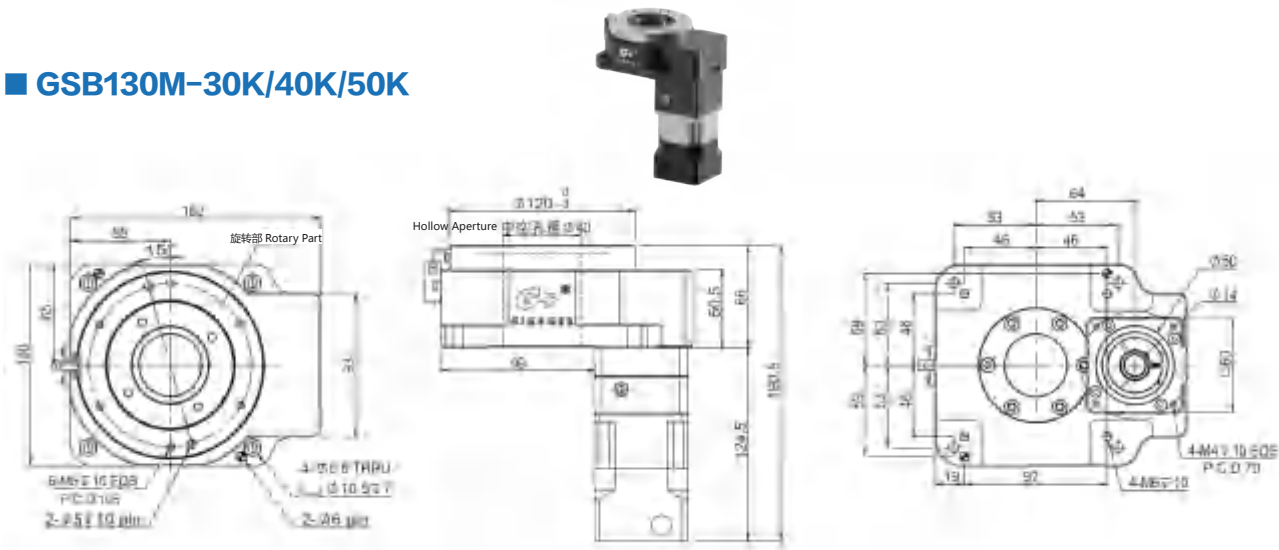
■ GSB130-10K



■ GSB130Z-20K/30K



■ GSB130M-30K/40K/50K



■ **GSB200-10K**

Figure 1: Rotary Part. This technical drawing shows a top-down view of a circular component. It features a central circular hole with a diameter of 15. The outer diameter is 255. The total width of the part is 200. There are four mounting holes, each with a diameter of 8. The distance between the centers of opposite mounting holes is 100. The part is labeled '旋轉部 Rotary Part'.

Figure 2: Hollow Aperture. This technical drawing shows a side view of a component with a hollow aperture. The total length is 150. The diameter of the hollow aperture is 40. The distance from the left end to the center of the aperture is 125. The distance from the center of the aperture to the right end is 25. The part is labeled 'Hollow Aperture 中空孔部'.

■ **GSB200Z-20K/30K**

**Figure 1: Rotating Rotary Part**

- Front View:** Shows a circular flange with a central hole. Dimensions include outer diameter 205, inner hole diameter 150, and a central bore diameter of 6-M8±0.015 FOS P=0.070.
- Side View:** Shows the profile of the part with a total height of 19.5 and a central bore depth of 1.5.
- Top View:** Shows the bottom of the part with four mounting holes labeled "4-Ø11 THRU L16.17±0.5".





## GSG 系列中空旋转平台

### GSG Series Hollow Rotary Table



#### 大口径中空结构

配线配管更方便简洁，在布线复杂的环境中，该优势尤为突出。

#### 二段减速一体式设计

小齿主轴与二段采用同轴一体化组装，大幅提升同心度及齿轮转矩，同时节省空间、降低成本。

#### 高转矩齿轮

齿轮系数得以提升，可承受更大负载。

#### 寿命长

精度寿命可达 30000 小时。

#### Large Aperture Structure

Easier wiring and piping , especially in complicated wiring and piping condition.

#### Two-stage Reduction with Integrated Design

Pinion bearing and the second stage coaxial integration assembly, greatly improved the concentricity and gear torque, meanwhile save space and lower cost.

#### High Torque Gear

Gear coefficient improved, more loading.

#### Long life-span

The precision life can reach 30000hrs.



直角式标准型  
Right Angle Standard Type



直角式左向  
Right Angle-Left Direction



直角式右向  
Right Angle-Right Direction

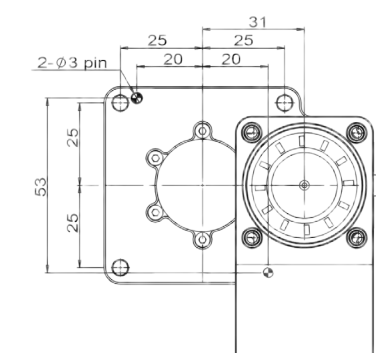
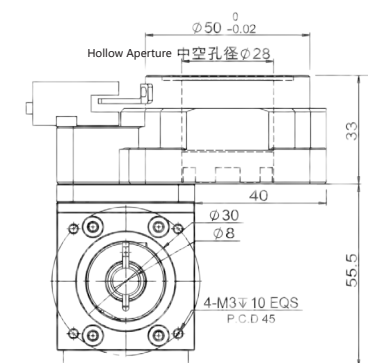
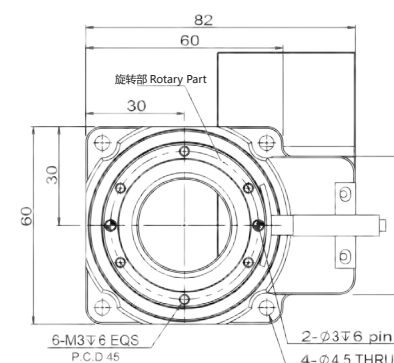
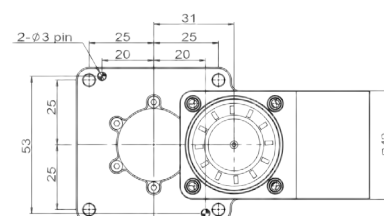
## GSG60

| GSG            | 60         | Z                                                        | - 15K -      | SV1                                                                                   | - L                                                                     |
|----------------|------------|----------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                             | 减速比<br>Ratio | 马达规格<br>Motor                                                                         | 输出口方向<br>Output Direction                                               |
|                | 60         | Z : 直角式<br>M : 行星式<br><br>Z: Right Angle<br>M: Planetary |              | SV1 : 伺服 Ø8 PCD45,M3<br>SV2 : 伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                    | R : 右向<br>L : 左向<br>无 : 标准<br><br>R: Right<br>L: Left<br>None: Standard |
|                | 85         |                                                          |              | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor      |                                                                         |
|                | 130        |                                                          |              | ST1 : 步进 Ø5 PCD43.8,M3<br>ST2 : 步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                    |                                                                         |
|                | 200        |                                                          |              | ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |                                                                         |

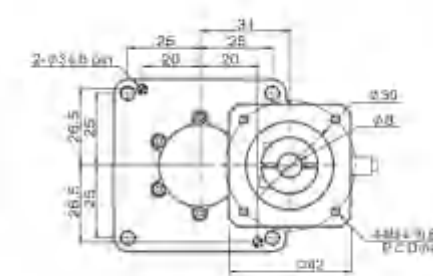
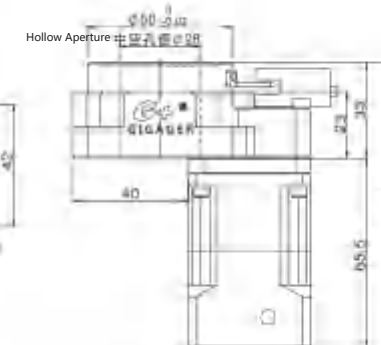
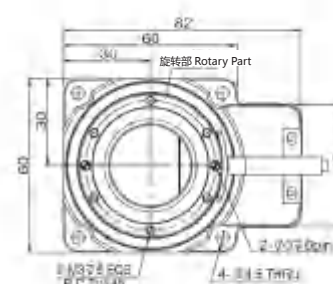
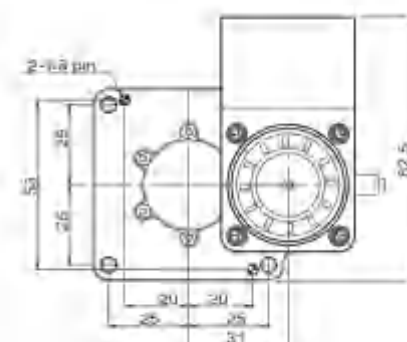
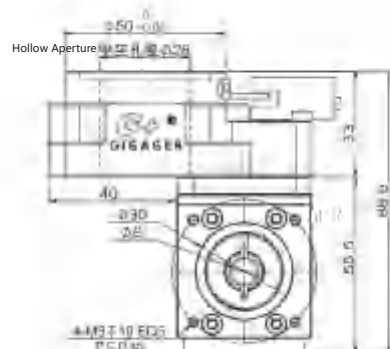
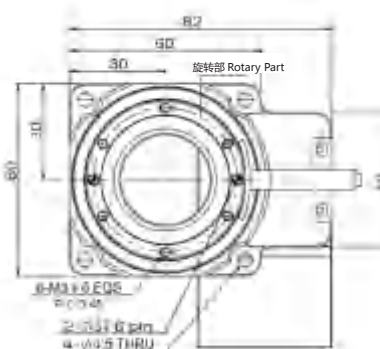
### ■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           | 型号规格 Model                  |                |
|-------------------------------------|-----------------------------|----------------|
|                                     | GSG60Z                      | GSG60M         |
| 旋转平台轴承 Bearing of Rotary Table      | 交叉滚子轴承 Cross Roller Bearing |                |
| 减速比 Gear Ratio                      | i                           | 15      20     |
| 容许转矩 Allowable Torque               | N.m                         | 8              |
| 容许盘面转速 Allowable Table Speed        | rpm                         | 200            |
| 重复定位精度 Repeatability                | arc-sec                     | ≤ 10      ≤ 15 |
| 容许惯性力矩 Allowable Overturning Moment | N.m                         | 5              |
| 定位精度 Positioning Accuracy           | arc-min                     | ≤ 1            |
| 容许轴向负载 Allowable Axial Load         | N                           | 250            |
| 旋转平台平面度 Table Flatness              | mm                          | ≤ 0.01         |
| 旋转平台同心度 Table Concentricity         | mm                          | ≤ 0.01         |
| 保护等级 Ingress Protection             | IP                          | 40             |
| 重量 Weight                           | kg                          | 1      1       |

■ **GSG60Z-15K-R**



■ **GSG60M-20K**

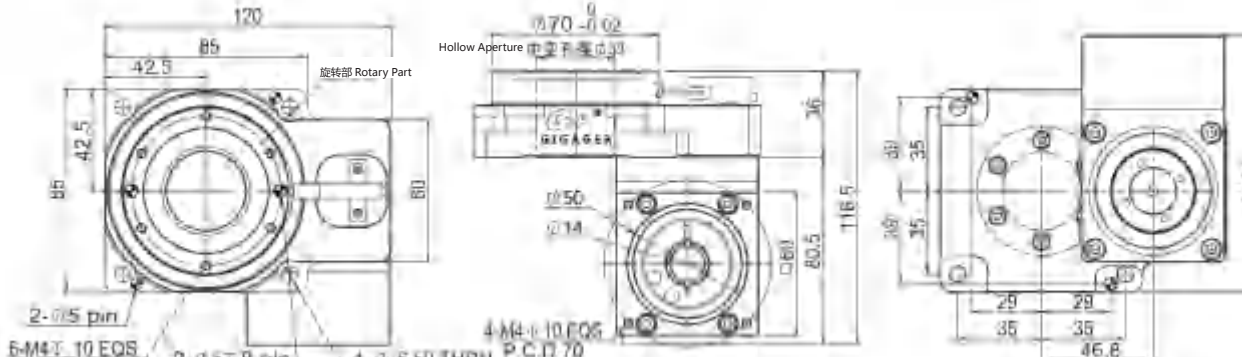


■ **GSG85Z-18K**

[illegible]

## ■ 技术参数 Technical Parameters

■ GSG85Z-18K-L

Technical drawing of the GSG85Z-18K-L gear pump assembly, showing three views: front, side, and top.

**Front View Dimensions:**

- Overall width: 120
- Overall height: 85
- Flange diameter:  $\phi 42.5$
- Flange thickness: 42.5
- Mounting holes: 6-M4 $\times$ 10 EQS
- Pin holes: 2- $\phi 5$  pin

**Side View Dimensions:**

- Overall height: 116.5
- Flange diameter:  $\phi 50$
- Flange thickness: 14
- Mounting holes: 4-M4 $\times$ 10 EQS
- Pin holes: 2- $\phi 5$  pin

**Top View Dimensions:**

- Overall width: 120
- Overall height: 85
- Flange diameter:  $\phi 42.5$
- Flange thickness: 42.5
- Mounting holes: 6-M4 $\times$ 10 EQS
- Pin holes: 2- $\phi 5$  pin

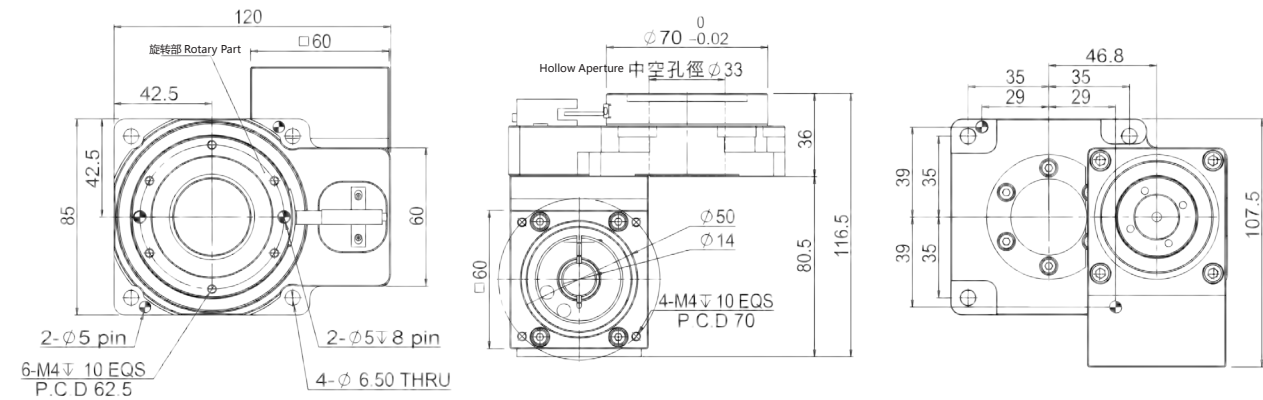
**Rotary Part Dimensions:**

- Overall width: 120
- Overall height: 85
- Flange diameter:  $\phi 42.5$
- Flange thickness: 42.5
- Mounting holes: 6-M4 $\times$ 10 EQS
- Pin holes: 2- $\phi 5$  pin

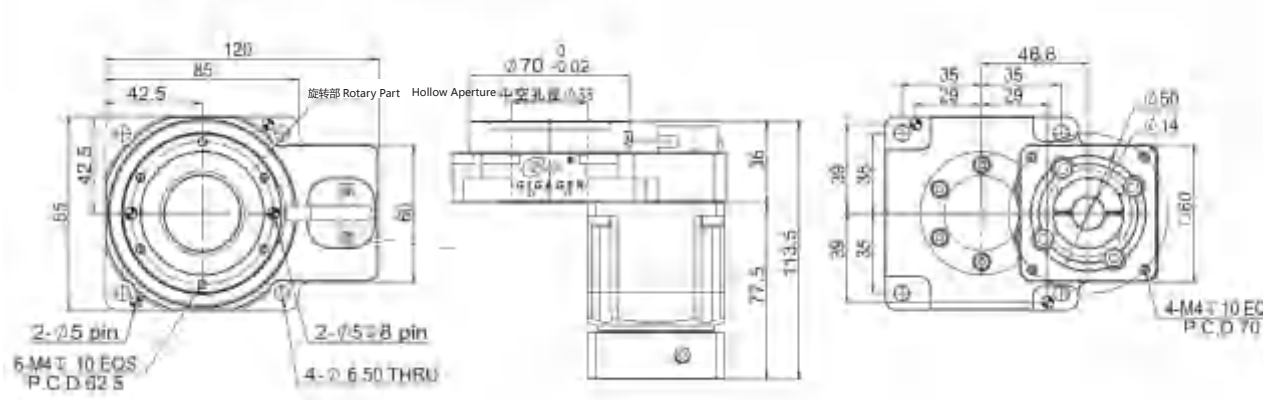
**Technical Notes:**

- Rotary Part 旋轉部 Rotary Part
- Hollow Aperture 中空孔 中空孔

GSG85Z-18K-R



GSG85M-18K/30K



GSG130

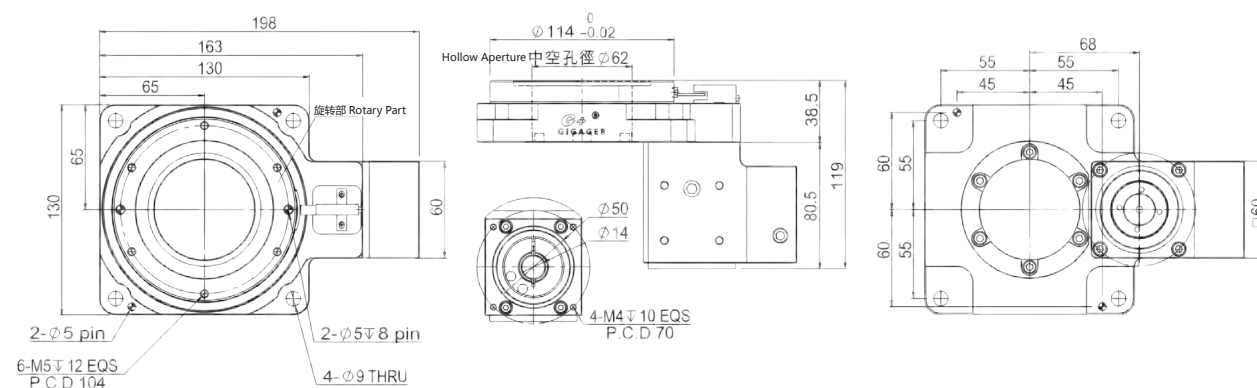
| GSG            | 130        | Z                                                        | - 18K -      | SV1                                                                                                                                                                                                                                                                                                      | - L                                                                     |
|----------------|------------|----------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                             | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                                                                                                                                                                            | 输出口方向<br>Output Direction                                               |
|                | 60         | Z : 直角式<br>M : 行星式<br><br>Z: Right Angle<br>M: Planetary |              | SV1 : 伺服 Ø14 PCD70,M4<br>SV2 : 伺服 Ø14 PCD70,M5<br>SV3 : 伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                                                                                                                                                        | R : 向右<br>L : 向左<br>无 : 标准<br><br>R: Right<br>L: Left<br>None: Standard |
|                | 85         |                                                          |              |                                                                                                                                                                                                                                                                                                          |                                                                         |
|                | 130        |                                                          |              | SV1: 伺服 Ø14 PCD70,M4<br>SV2: 伺服 Ø14 PCD70,M5<br>SV3: 伺服 Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                                                                                                                                                                                 |                                                                         |
|                | 200        |                                                          |              | ST1 : 步进 Ø6.35 PCD66.67,M4<br>ST2 : 步进 Ø6.35 PCD70.7,M4<br>ST3 : 步进 Ø8 PCD70.7,M4<br>ST4 : 步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达<br><br>ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |                                                                         |

技术参数 Technical Parameters

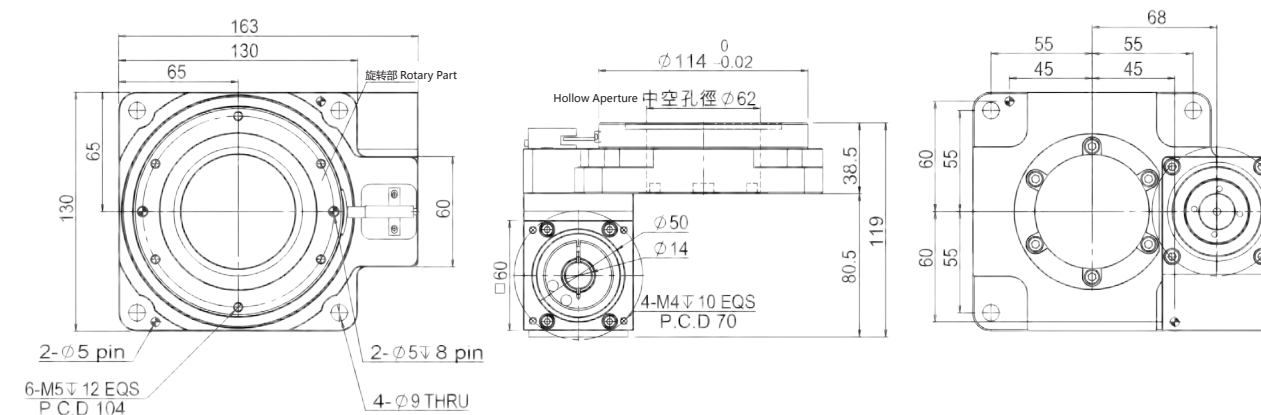
| 技术参数 Technical Parameters           | 型号规格 Model                  |         |      |
|-------------------------------------|-----------------------------|---------|------|
|                                     | GSG130Z                     | GSG130M |      |
| 旋转平台轴承 Bearing of Rotary Table      | 交叉滚子轴承 Cross Roller Bearing |         |      |
| 减速比 Gear Ratio                      | i                           | 18      | 1830 |
| 容许转矩 Allowable Torque               | N.m                         | 140     |      |
| 容许盘面转速 Allowable Table Speed        | rpm                         | 200     |      |
| 重复定位精度 Repeatability                | arc-sec                     | ≤ 10    | ≤ 15 |
| 容许惯性力矩 Allowable Overturning Moment | N.m                         | 50      |      |
| 定位精度 Positioning Accuracy           | arc-min                     | ≤ 1     |      |
| 容许轴向负载 Allowable Axial Load         | N                           | 2000    |      |
| 旋转平台平面度 Table Flatness              | mm                          | ≤ 0.01  |      |
| 旋转平台同心度 Table Concentricity         | mm                          | ≤ 0.01  |      |
| 保护等级 Ingress Protection             | IP                          | 40      |      |
| 重量 Weight                           | kg                          | 3.5     |      |



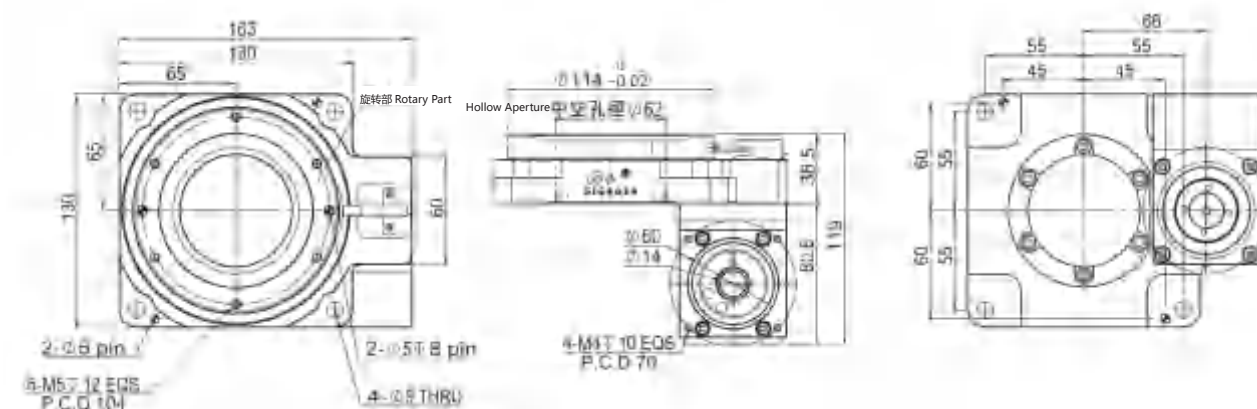
■ GSG130Z-18K



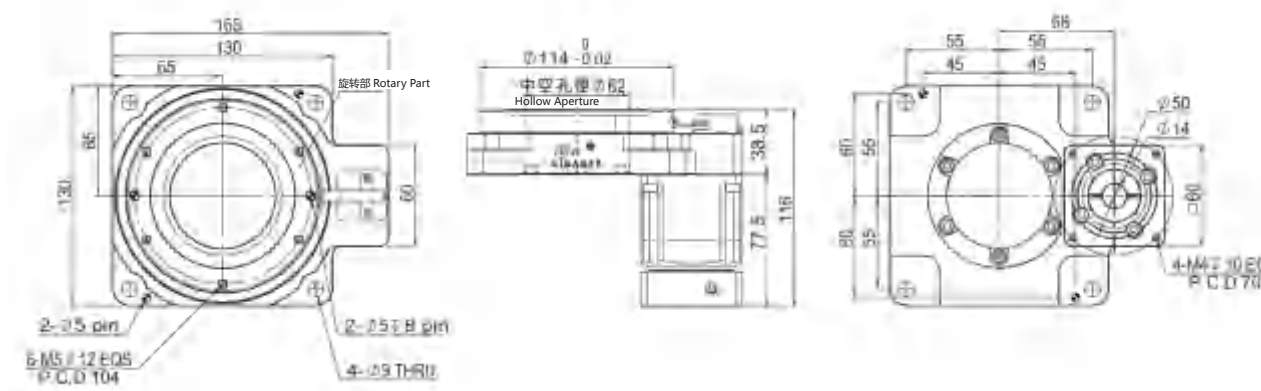
■ GSG130Z-18K-R



■ GSG130Z-18K-L



■ GSG130M-18K/30K



|                             |
|-----------------------------|
| GSH                         |
| GSR                         |
| GSHR                        |
| GSA                         |
| GR                          |
| GYH                         |
| GSN                         |
| GSB                         |
| GSG                         |
| 技术手册<br>Technical<br>Manual |
| GSZ                         |
| GMR                         |
| GMC                         |
| GMA                         |
| GML                         |

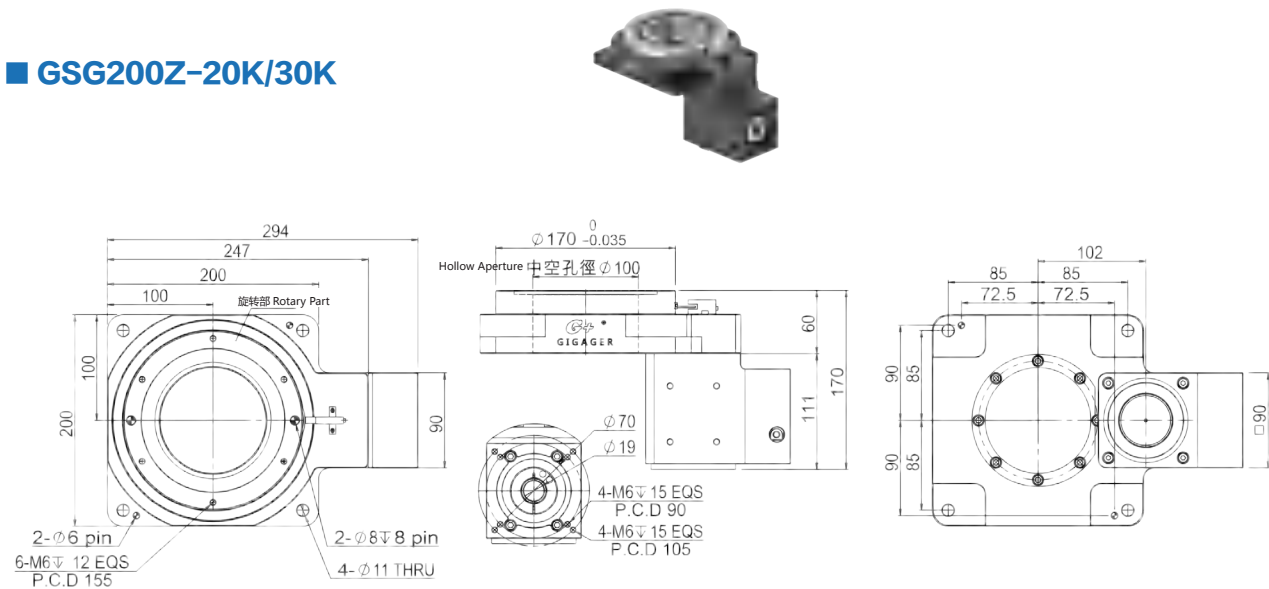
GSG200

| GSG            | 200        | Z                                                        | - 20K -      | SV1                                                                                                                                                                 | - L                                                                     |
|----------------|------------|----------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 结构形式<br>Type                                             | 减速比<br>Ratio | 马达规格<br>Motor                                                                                                                                                       | 输出口方向<br>Output Direction                                               |
| GSH            | 60         | Z : 直角式<br>M : 行星式<br><br>Z: Right Angle<br>M: Planetary |              | SV1 : 伺服 Ø19 PCD90,M5<br>SV2 : 伺服 Ø19 PCD90,M6<br>适配各品牌 750W AC 伺服马达<br><br>SV1: Servo Ø19 PCD90,M5<br>SV2: Servo Ø19 PCD90,M6<br>Suit for 750W AC Servo Motor      | R : 右向<br>L : 左向<br>无 : 标准<br><br>R: Right<br>L: Left<br>None: Standard |
| GSR            | 85         |                                                          |              |                                                                                                                                                                     |                                                                         |
| GSHR           | 130        |                                                          |              |                                                                                                                                                                     |                                                                         |
| GSA            | 200        |                                                          |              |                                                                                                                                                                     |                                                                         |
| GR             |            |                                                          |              | ST1 : 步进 Ø14 PCD98.4,M5<br>ST2 : 步进 Ø14 PCD98.4,M6<br>适配各品牌 86 型步进马达<br><br>ST1: Stepper Ø14 PCD98.4,M5<br>ST2: Stepper Ø14 PCD98.4,M6<br>Suit for 86 Stepper Motor |                                                                         |
| GYH            |            |                                                          |              |                                                                                                                                                                     |                                                                         |
| GSN            |            |                                                          |              |                                                                                                                                                                     |                                                                         |
| GSB            |            |                                                          |              |                                                                                                                                                                     |                                                                         |

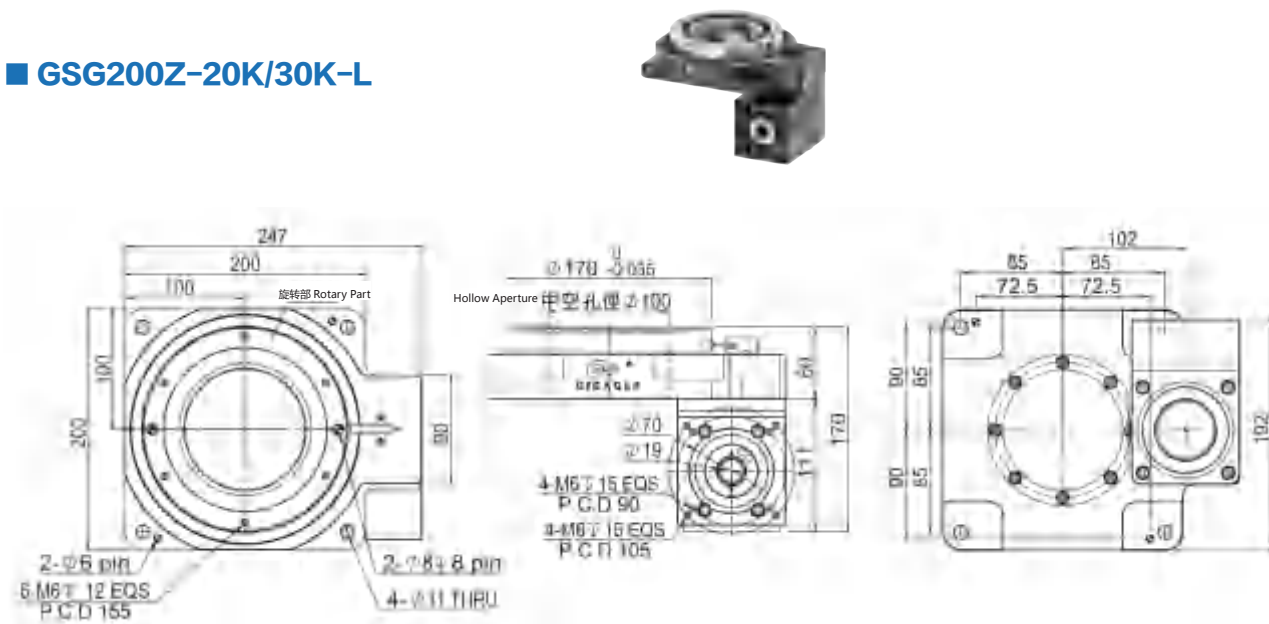
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters           | 型号规格 Model                  |        |         |      |    |
|-------------------------------------|-----------------------------|--------|---------|------|----|
|                                     | GSG200Z                     |        | GSG200M |      |    |
| 旋转平台轴承 Bearing of Rotary Table      | 交叉滚子轴承 Cross Roller Bearing |        |         |      |    |
| 减速比 Gear Ratio                      | i                           | 20     | 30      | 30   | 50 |
| 容许转矩 Allowable Torque               | N.m                         | 250    |         |      |    |
| 容许盘面转速 Allowable Table Speed        | rpm                         | 200    |         |      |    |
| 重复定位精度 Repeatability                | arc-sec                     | ≤ 10   |         | ≤ 15 |    |
| 容许惯性力矩 Allowable Overturning Moment | N.m                         | 100    |         |      |    |
| 定位精度 Positioning Accuracy           | arc-min                     | ≤ 1    |         |      |    |
| 容许轴向负载 Allowable Axial Load         | N                           | 4000   |         |      |    |
| 旋转平台平面度 Table Flatness              | mm                          | ≤ 0.01 |         |      |    |
| 旋转平台同心度 Table Concentricity         | mm                          | ≤ 0.01 |         |      |    |
| 保护等级 Ingress Protection             | IP                          | 40     |         |      |    |
| 重量 Weight                           | kg                          | 11     |         |      |    |

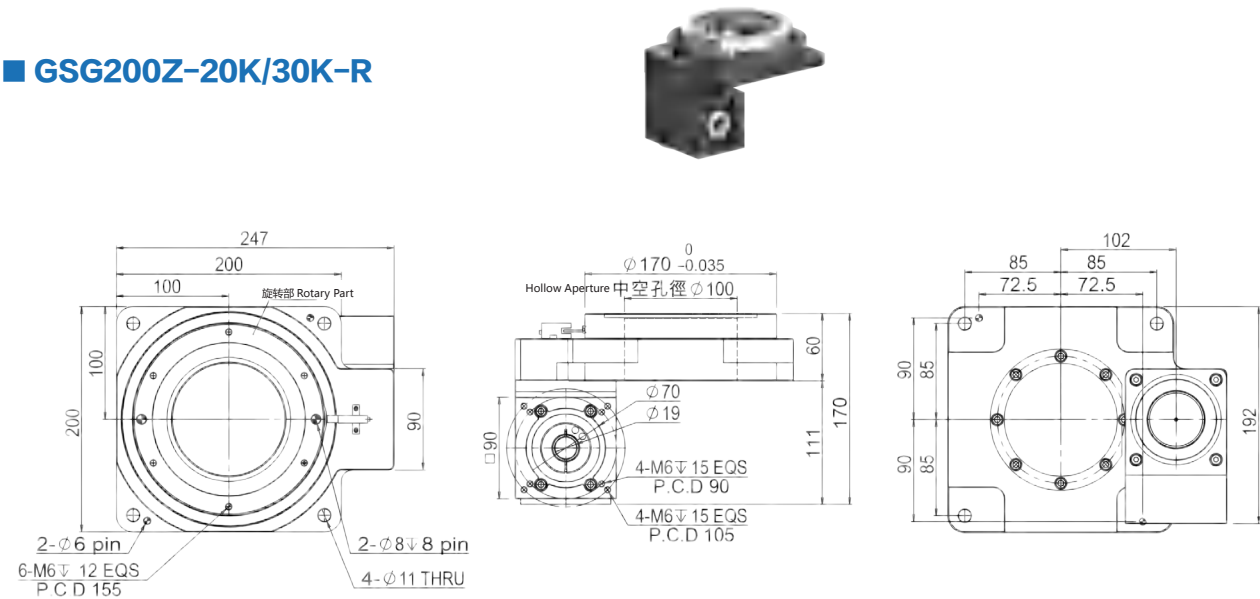
■ GSG200Z-20K/30K



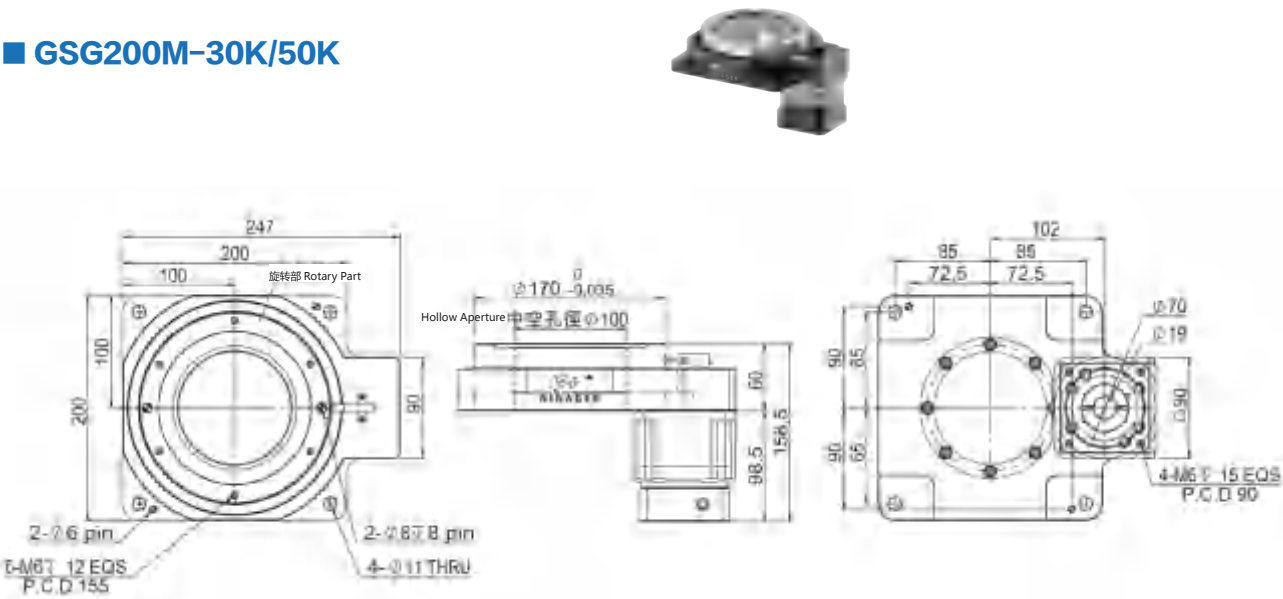
■ GSG200Z-20K/30K-L



■ GSG200Z-20K/30K-R

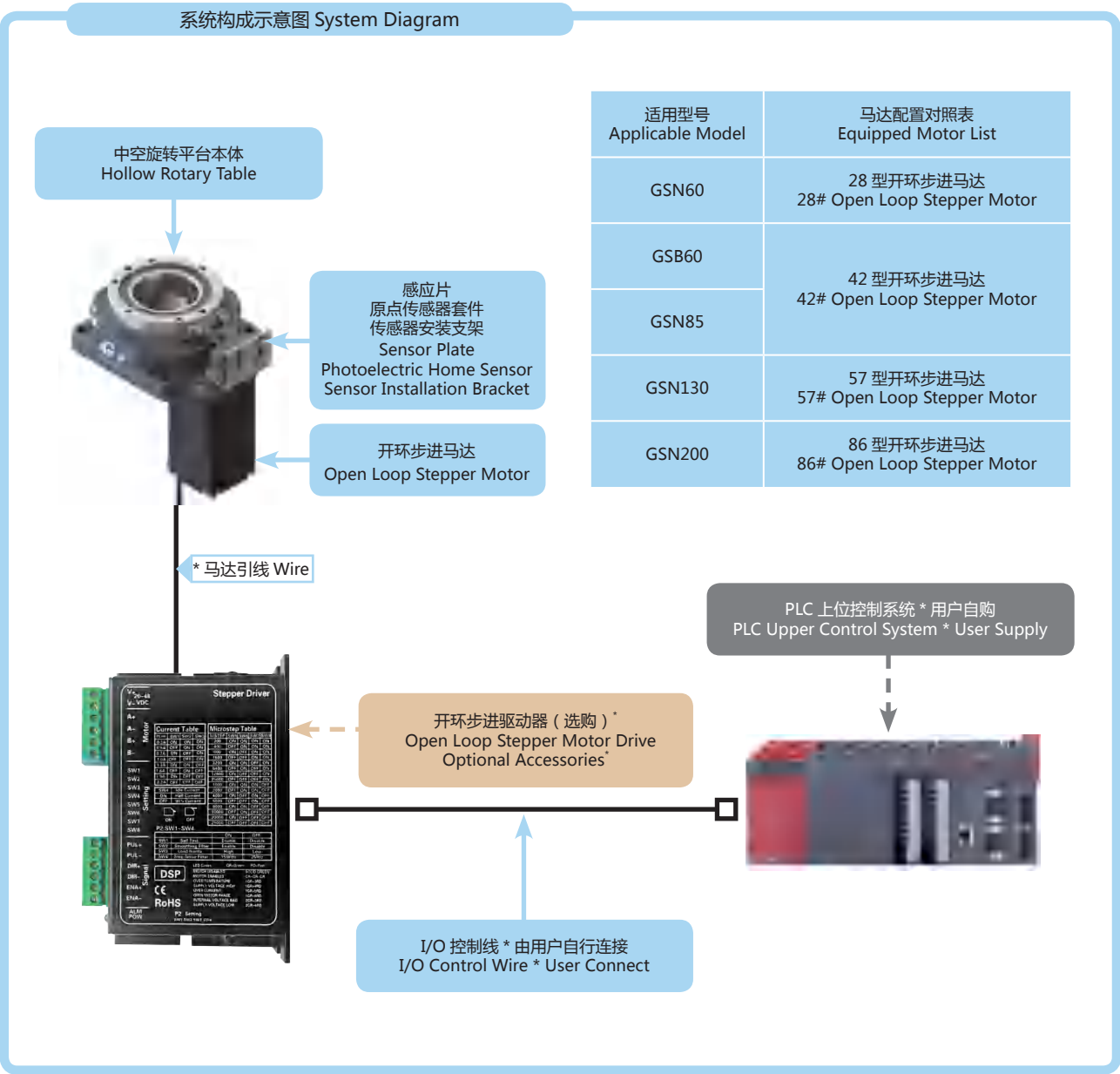


■ GSG200M-30K/50K



■ 中空旋转平台系统构成 /OS 开环步进型 System of Hollow Rotary Actuator ● OS (Open Loop)

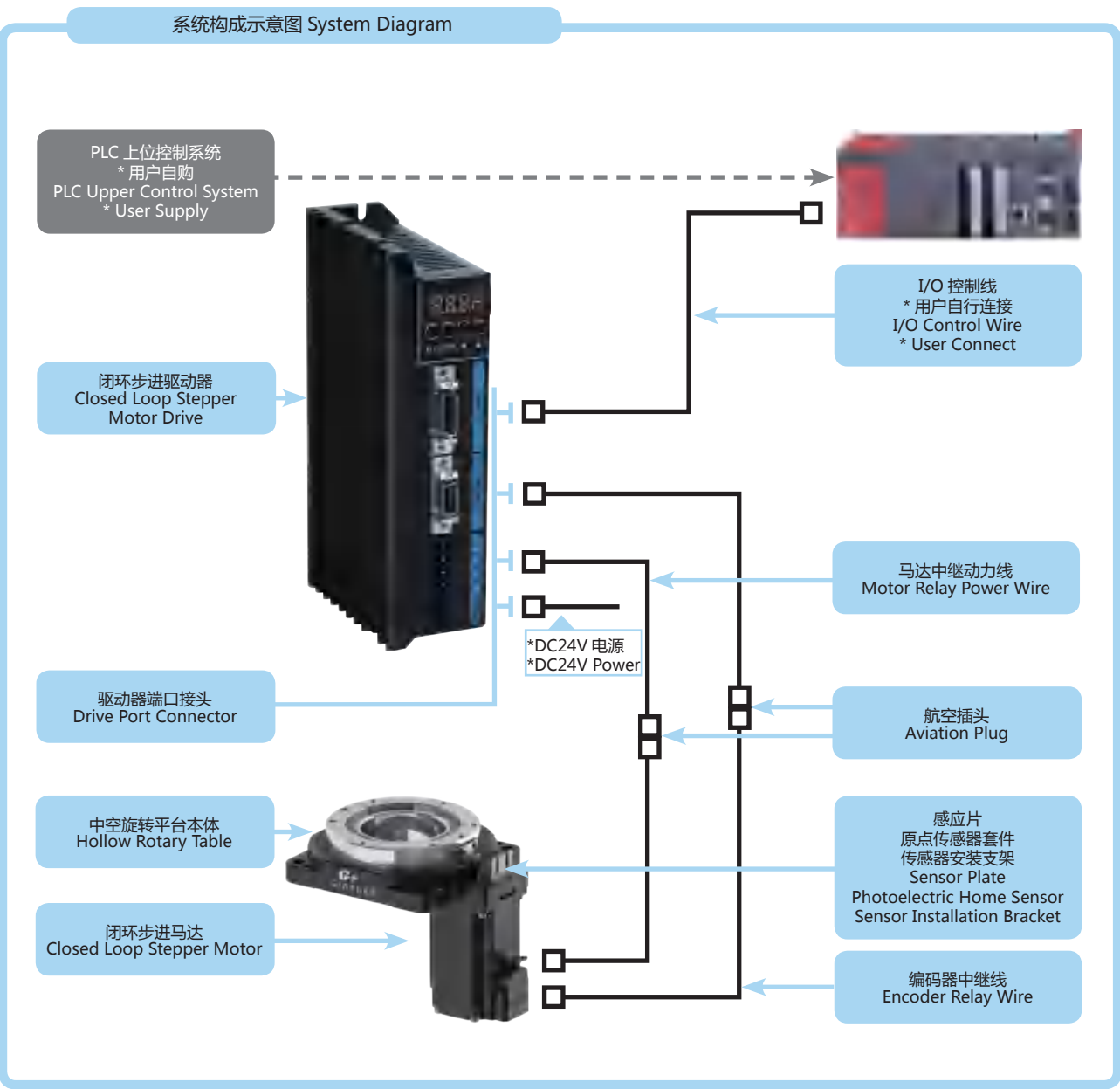
| 标准配置                                                              | Standard Configuration                                                                                                                                      | 选购配件        | Optional Accessories                  |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| 平台本体 ×1 台<br>开环步进马达 ×1 台<br>感应片 1 件<br>原点传感器套件 1 套<br>传感器安装支架 1 套 | Rotary Table * 1 set<br>Open Loop Stepper Motor * 1 set<br>Sensor Plate * 1 pcs<br>Photoelectric Home Sensor * 1 set<br>Sensor Installation Bracket * 1 set | 开环步进驱动器 1 台 | Open Loop Stepper Motor Drive * 1 set |



\* 选购配件：以上选购配件仅供参考，用户可根据设备需求选择搭配购买。  
\* Optional Accessories: The above Optional Accessories are for user's reference only, user can purchase as per the requirement

■中空旋转平台系统构成 /CS 闭环步进型 System of Hollow Rotary Actuator ● CS (Closed Loop)

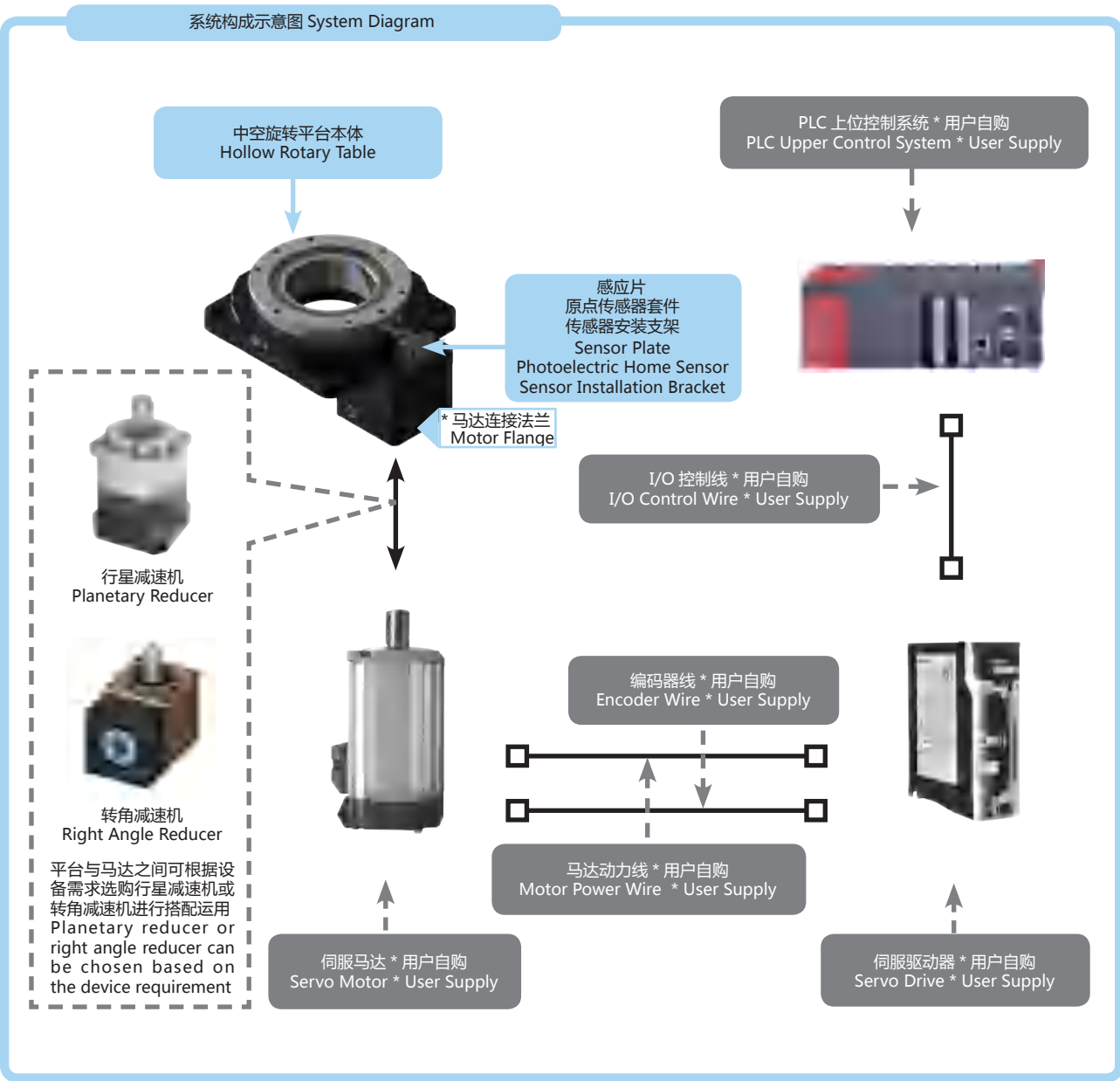
| 标准配置 Standard Configuration |                                         |                     |                                   |
|-----------------------------|-----------------------------------------|---------------------|-----------------------------------|
| 平台本体 ×1 台                   | Rotary Table * 1 set                    | 编码器中继线 1 条( 3 米 )   | Encoder Relay Wire 1 pcs (3M)     |
| 闭环步进马达 ×1 台                 | Closed Loop Stepper Motor * 1 set       | I/O 控制线 1 条 ( 1 米 ) | I/O Control Wire 1 pcs(1M)        |
| 闭环步进驱动器 ×1 台                | Closed Loop Stepper Motor Drive * 1 set | 感应片 1 件             | Sensor Plate 1 pcs                |
| 驱动器端口接头 ×4 个                | Drive Port Connector * 4 pcs            | 原点传感器套件 1 套         | Photoelectric Home Sensor 1 set   |
| 马达中继动力线 1 条 (3M)            | Motor Relay Power Wire 1 pcs (3M)       | 传感器安装支架 1 套         | Sensor Installation Bracket 1 set |



\* 选购配件：以上选购配件仅供参考，用户可根据设备需求选择搭配购买。  
\* Optional Accessories: The above Optional Accessories are for user's reference only, user can purchase as per the requirement.

■中空旋转平台系统构成 /SV 伺服驱动型 System of Hollow Rotary Table ● SV (For Servo Motor)

| 标准配置 Standard Configuration |                      |             |                                   |
|-----------------------------|----------------------|-------------|-----------------------------------|
| 平台本体 ×1 台                   | Rotary Table * 1 set | 原点传感器套件 1 套 | Photoelectric Home Sensor 1 set   |
| 感应片 1 件                     | Sensor Plate 1 pcs   | 传感器安装支架 1 套 | Sensor Installation Bracket 1 set |



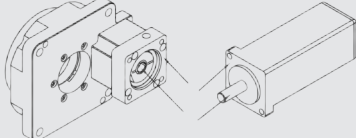
\* 选购配件：以上选购配件仅供参考，用户可根据设备需求选择搭配购买。  
\* Optional Accessories: The above Optional Accessories are for user's reference only, user can purchase as per the requirement.



■ 马达安装说明 /SV 伺服驱动型 System of Hollow Rotary Table ● SV (For Servo Motor)

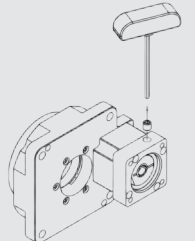
● 马达安装说明 Motor Installation Instruction

①



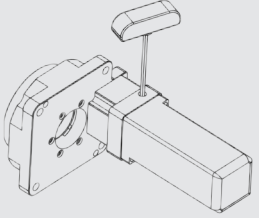
首先对马达和旋转平台的尺寸进行匹配，并清除表面所有异物。First match the size of the motor and the rotating platform and remove any foreign objects on the surface

②



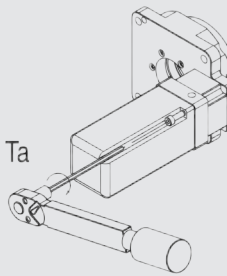
拆下转接法兰上的螺旋塞，然后调整位置，直至能够看到紧固螺栓<sup>\*1</sup>。Remove the screw plug on the adapter flange and adjust the position until the fastening bolt can be seen<sup>\*1</sup>

③



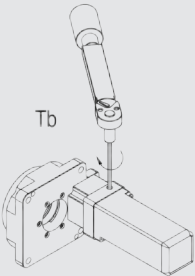
将马达与转接法兰位置调整好并轻轻旋紧紧固螺栓，直至锁紧环不再空转。Adjust the motor and adapter flange position and gently tighten the fastening bolts until the locking ring is no longer freewheeling

④



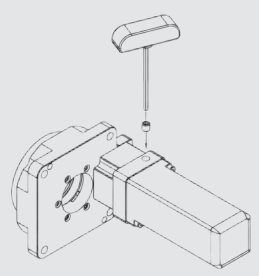
对角初步固定螺栓，完成第⑤步之后，参照紧固扭矩标准 Ta<sup>\*2</sup>，旋紧紧固螺栓。Diagonal preliminary fixing bolts, after the completion of step 5, refer to the tightening torque standard Ta<sup>\*2</sup> tighten the fastening bolts

⑤



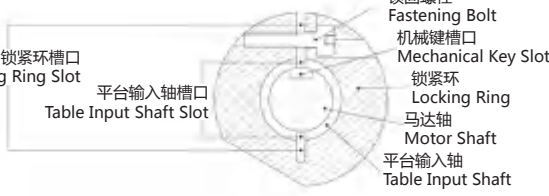
参照紧固扭矩标准 Tb<sup>\*2</sup>，旋紧紧固螺栓。Refer to the tightening torque standard Tb<sup>\*2</sup> tighten the fastening bolts

⑥



紧固螺旋塞。Tighten the screw plug

\*1：马达安装方法 Motor Mounting Method



带机械键的马达安装方法  
Installation method for motor with mechanical key

拔出机械键，调整锁紧环的位置，使其槽口与旋转平台输入轴的槽口对齐；再给平台输入轴轴孔和马达轴抹上润滑脂，插入马达轴，使机械键槽口与锁紧环槽口对齐，以便最大限度地紧固锁紧环的紧固螺栓，使其连接更牢固。Pull out the mechanical key, adjust the position of the locking ring, align its notch with the notch of the input shaft of the rotating platform, and then apply grease to the platform input shaft hole and the motor shaft, insert the motor shaft and make the mechanical key slot and Align the locking ring notches to maximize the fastening bolts of the locking ring for a stronger connection



带轴套的安装方法  
Installation method with sleeve

由于马达轴径过小，不能与平台输入轴轴孔匹配时，可加入轴套进行调整，其安装方法与带机械键的马达安装方法一样，只需要将轴套放入并与锁紧环的开槽口对齐，再旋紧锁紧环的紧固螺栓即可。Since the motor shaft diameter is too small to match the shaft input shaft hole of the platform, the sleeve can be added for adjustment. The installation method is the same as the motor mounting method with mechanical keys. It only needs to put the sleeve and open with the locking ring. Align the notches and tighten the fastening bolts of the locking ring.

\*2：扳手螺栓紧固转矩 Wrench Bolt Tightening Torque

| 扳手螺栓尺寸<br>Wrench Bolt Size | 马达安装 Motor Installation Ta(8.8T) |        | 锁紧环安装 Locking Ring Installation Tb(12.9T) |        |
|----------------------------|----------------------------------|--------|-------------------------------------------|--------|
|                            | N.m                              | kgf.cm | N.m                                       | kgf.cm |
| M3                         | 1.28                             | 13     | 2.15                                      | 22     |
| M4                         | 2.9                              | 30     | 4.95                                      | 50     |
| M5                         | 5.75                             | 59     | 9.7                                       | 99     |
| M6                         | 9.9                              | 101    | 16.5                                      | 168    |
| M8                         | 24                               | 245    | 40                                        | 408    |
| M10                        | 48                               | 489    | 81                                        | 826    |
| M12                        | 83                               | 846    | 140                                       | 1428   |
| M14                        | 132                              | 1346   | 220                                       | 2243   |
| M16                        | 200                              | 2039   | 340                                       | 3467   |

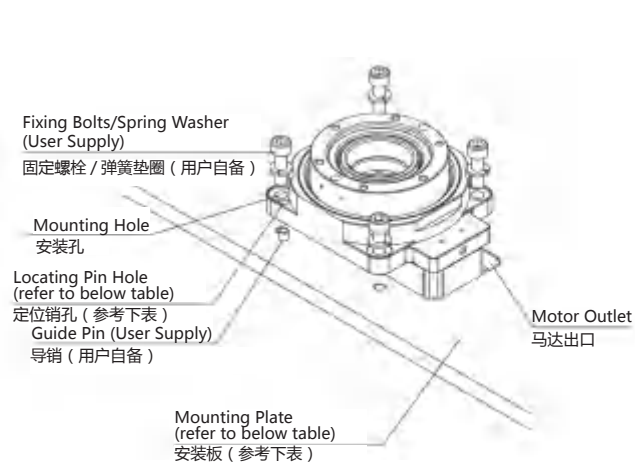
■ 中空旋转平台安装说明 Installation Instruction of Hollow Rotary Table

● 如何安装中空旋转平台啮器

在机器安装板上留出马达出口，以便露出马达。  
利用 2 个定位销孔（GSB60、GSN60 中定位销孔与安装孔是共用的），将中空旋转平台安装到下图所示的机器安装板上。这些安装孔用于在机器上准确定位中空旋转平台，务必将定位销牢固固定在安装板上。

● How to install a hollow rotary actuator?

Leave a motor outlet on the machine mounting plate to expose the motor Use the two locating pin holes (the locating pin holes in GSB60 and GSN60 are common to the mounting holes) and mount the hollow rotating actuator to the machine mounting plate shown below. These mounting holes are used to accurately position the hollow rotating actuator on the machine, making sure to secure the locating pins to the mounting plate



● 定位销孔尺寸 Locating pin hole size

| 平台规格<br>Table Model | 销孔直径<br>Diameter<br>mm                | 销孔深度（穿孔）<br>Depth (THRU)<br>mm | 销孔数量<br>Quantity |
|---------------------|---------------------------------------|--------------------------------|------------------|
| GSN85               | $\varnothing 5 + {}^{0.012}_{0} (H7)$ | 9.5                            | 2                |
| GSN130              |                                       | 14.5                           | 2                |
| GSN200              | $\varnothing 6 + {}^{0.015}_{0} (H7)$ | 16                             | 2                |
| GSB100              | $\varnothing 4 + {}^{0.015}_{0} (H7)$ | 13                             | 2                |
| GSB130              | $\varnothing 6 + {}^{0.015}_{0} (H7)$ | 15                             | 2                |
| GSB200              | $\varnothing 8 + {}^{0.015}_{0} (H7)$ | 23                             | 2                |
| GSN280              | $\varnothing 8 + {}^{0.015}_{0} (H7)$ | 25                             | 2                |

● 安装板厚度 Mounting plate thickness

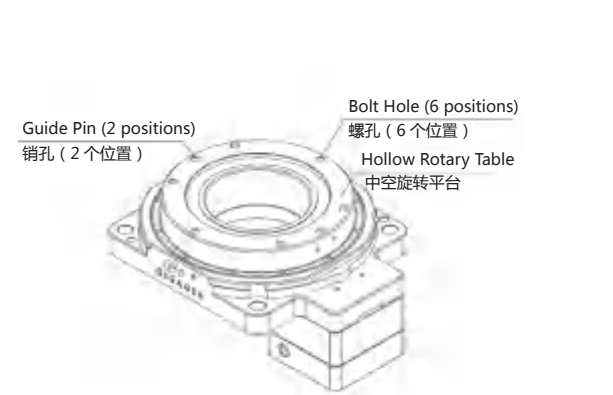
| 平台规格 Table Model | 安装板厚度 Thickness |
|------------------|-----------------|
| GSN60            | > 5mm           |
| GSB60            |                 |
| GSN85            |                 |
| GSB100           | > 8mm           |
| GSN130           |                 |
| GSB130           |                 |
| GSN200           | > 10mm          |
| GSB200           |                 |
| GSN280           |                 |
|                  | > 15mm          |

● 如何在中空旋转平台上安装负载

使用中空旋转平台上的 6 处安装螺孔安装负载。中空旋转平台上有 2 个安装负载用的销孔，可用于确定负载的位置，务必将定位销牢固固定在负载上。

● How to install a load on a hollow rotary actuator?

Install the load using the 6 mounting holes on the hollow rotating actuator. There are 2 pin holes for mounting the load on the hollow rotating actuator, which can be used to determine the position of the load. Be sure to fix the positioning pin firmly on the load



▲ 安装注意事项

安装之前，应通读如下安装注意事项，并按如下条件安装。

- 室内（不直接接触阳光的区域）
- 没有热辐射的区域
- 工作环境温度：0~+50℃
- 原点传感器下方温度：0~+40℃
- 工作环境湿度：低于 85%
- 不存在易燃易爆的酸性气体
- 可阻挡灰尘、油和溅水的地方
- 不遭受直接震动和过度撞击的地方

▲ Installation Precautions

Before installation, read the following installation precautions and install as follows.

- Indoor (area not directly in contact with sunlight)
- Area without heat radiation
- Working environment temperature: 0~+50° C
- Temperature below the origin sensor: 0~+40° C
- Working environment humidity: less than 85%
- There is no flammable or explosive acid gas
- Place to block dust, oil and splashes
- Place without direct shock or excessive impact

■中空旋转平台选购要点 Calculation Reference

适用系列：GSH、GSR、GSA、GSN、GSB、GSG  
Applicable Series: GSH,GSR,GSA,GSN,GSB,GSG

●计算负载、搬运物转动惯量（JW）  
搬运物的转动惯量须以传动装置转动惯量的 30 倍以下为标准。

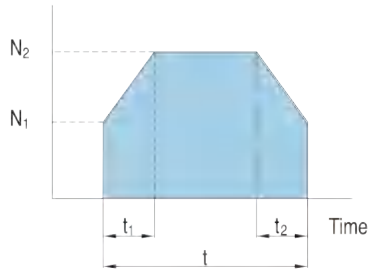
● Load Calculation / Loads Moment of Inertia (JW)  
The moment of inertia of the load shall be less than 30 times the moment of inertia of the transmission.

●计算加速转矩（Ta）参考以下公式  
Calculate the Acceleration Torque (Ta) Refer to below formula.

加速转矩 Acceleration Torque

$$Ta[N \cdot m] = (J_M + J_A + J_W) \cdot \frac{\pi}{30} \cdot \frac{(N_2 - N_1)}{t}$$

$J_M$  : 马达转动惯量 [kg·m<sup>2</sup>]     $J_M$ :Motor Moment of Inertia [kg·m<sup>2</sup>]  
 $J_A$  : 机构转动惯量 [kg·m<sup>2</sup>]     $J_A$ :Mechanism Moment of Inertia[kg·m<sup>2</sup>]  
 $J_W$  : 负载转动惯量 [kg·m<sup>2</sup>]     $J_W$ :Load Moment of Inertia[kg·m<sup>2</sup>]  
 $N_2$  : 工作转速 [r/min]     $N_2$ :Working Speed[r/min]  
 $N_1$  : 启动转速 [r/min]     $N_1$ :Starting Speed[r/min]  
 $t_1$  : 加速（减速）时间 [S]     $t_1$ :Acceleration (Deceleration) Time [S]

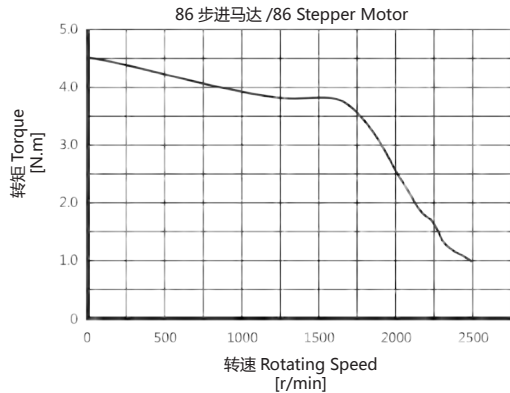
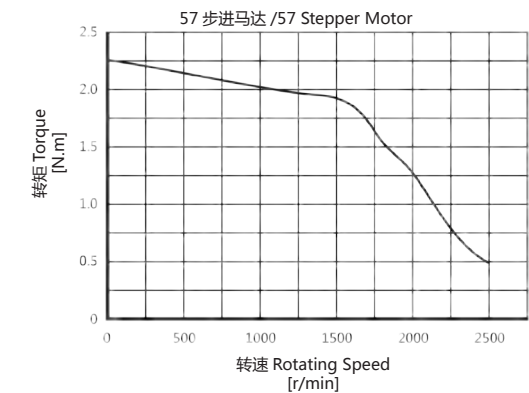
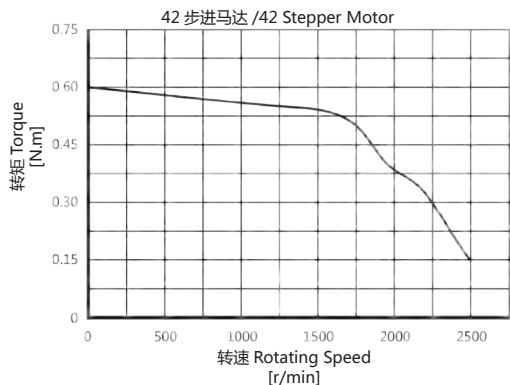
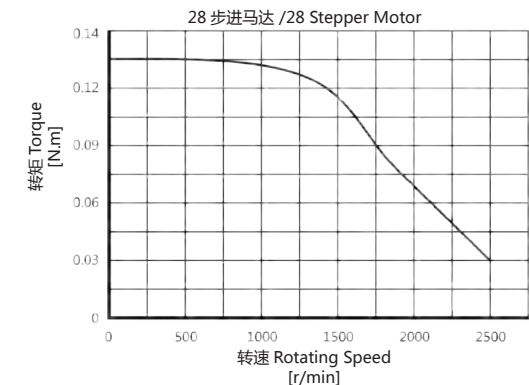


●计算所需转矩  
所需的扭矩是通过摩擦阻抗引起的负载转矩与转动惯量引起的加速转矩相加之和乘以安全系数计算得出的。  
所需转矩 T = ( 负载转矩 [N·m] + 加速转矩 [N·m] ) × 安全系数  
= (  $T_L + T_a$  ) × S  
安全系数 S 大于 1.5。

● Calculate the Required Torque  
The required torque is calculated by multiplying the sum of the load torque caused by the frictional resistance and the acceleration torque caused by the moment of inertia by the safety factor  
Required T =(Load torque [N.m]+ Acceleration torque [N.m]) × Safety factor  
=( $T_L + T_a$ ) × S  
Safety factor S more than 1.5.

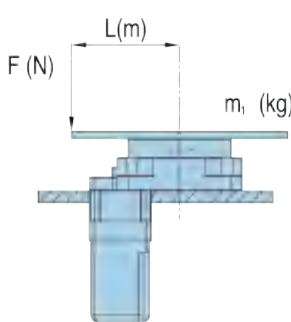
●选定马达所需的转矩 T 必须处于转速 - 转矩的规格范围之内  
步进马达转速转矩特性曲线

● The torque required of the selected motor T must be within the scope of speed - torque  
Stepping Motor Speed Torque Characteristic Curve



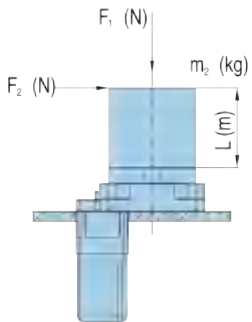
●轴向负载、惯性力矩负荷的计算  
在中空旋转平台上按照如下所示施加负载时，请确保采用以下公式计算得出轴向负载和惯性力矩负荷处于规定范围内。

● Axial Load, Calculation of Inertia Moment Load  
When applying the load on the hollow rotating actuator as shown below, be sure to calculate that the axial load and the moment of inertia load are within the specified range of calculation of the following formula



轴向负载 [N] :  $F_1 = F + m_1 \times g$   
惯性力矩负荷 [N.m] :  $M = F \times L$   
g : 重力加速度 9.807[m/s<sup>2</sup>]

Axial Load [N] :  $F_1 = F + m_1 \times g$   
Inertia Moment Load [N.m] :  $M = F \times L$   
g : Gravity Acceleration 9.807[m/s<sup>2</sup>]



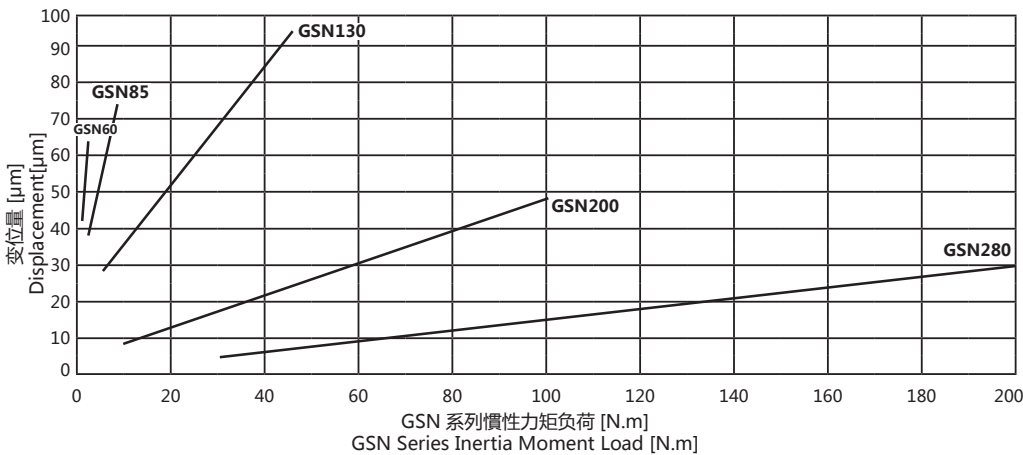
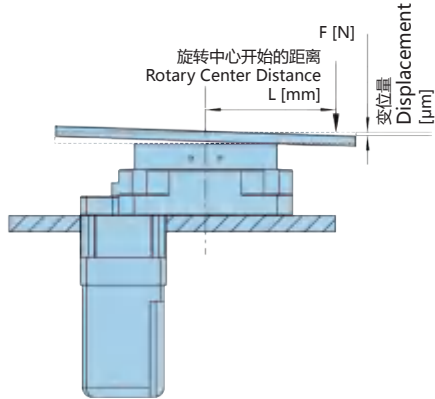
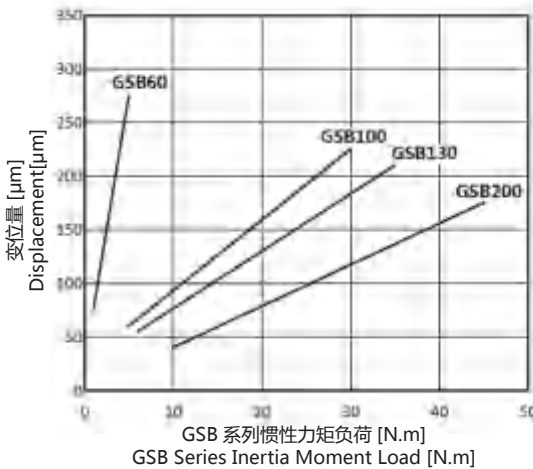
轴向负载 [N] :  $F_1 = F_1 + m_2 \times g$   
惯性力矩负荷 [N.m] :  $M = F_2 \times (L + A)$   
g : 重力加速度 9.807[m/s<sup>2</sup>]

Axial Load [N] :  $F_1 = F_1 + m_2 \times g$   
Inertia Moment Load[N.m] :  $M = F_2 \times (L + A)$   
g : Gravity Acceleration 9.807[m/s<sup>2</sup>]

| 型号 Model | A     |
|----------|-------|
| GSN60    | 0.010 |
| GSB60    | 0.010 |
| GSN85    | 0.015 |
| GSB100   | 0.015 |
| GSN130   | 0.017 |
| GSB130   | 0.017 |
| GSN200   | 0.033 |
| GSB200   | 0.033 |
| GSN280   | 0.051 |

●平台刚性参考  
不同型号的旋转平台采用了不同类型的支撑轴承，对旋转平台的容许惯性力矩负荷有一定影响，即型号越大，容许的惯性力矩负荷也越大。但对于惯性力矩负荷的变位量则会越小，详情参考以下图表（L = 200mm）。

● Actuator Rigid Reference  
Different types of rotating actuators use different types of support bearings, which have a certain influence on the Permissible Moment of Inertia Load of the rotating platform, that is, the larger the model, the greater the permissible moment of inertia load. However, the amount of displacement for the moment of inertia load will be smaller. For details, refer to the following chart ( L = 200mm)



■参数用语注释（通用）Terminology

|                                                             |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 马达种类<br>Motor Type                                          | 旋转平台可适配的马达种类。<br>Rotating actuator adaptable motor type                                                                                                                                                                                                                                                                                   |
| 旋转平台轴承<br>Bearing of Rotary Table                           | 旋转平台所使用的轴承种类。<br>The type of bearing used for Rotary Actuator                                                                                                                                                                                                                                                                             |
| 容许转矩 <sup>注 1</sup><br>Allowable Torque <sup>Note 1</sup>   | 减速机构部的机械强度临界值，包括加速转矩、负载惯量，皆须在此容许转矩范围内使用。<br>The mechanical strength thresholds of the speed reduction mechanism, including the acceleration torque and the load inertia must be used within this Permissible Torque range                                                                                                                 |
| 容许转速<br>Allowable Speed                                     | 减速机构部的机械强度可容许的旋转平台之盘面转速。<br>The table surface speed allowed by the mechanical strength of the speed reduction mechanism                                                                                                                                                                                                                   |
| 转动惯量<br>Moment of Inertia                                   | 马达部转子惯性惯量 + 减速机构部惯性惯量在旋转平台上所换算之值的总和。<br>The sum of values of Moment of inertia of the motor rotor + the inertia of the deceleration mechanism on the rotating actuator                                                                                                                                                                    |
| 容许轴向负载<br>Allowable Axial Load                              | 对旋转平台轴方向施加轴向负载的容许值。<br>Allowable value of axial load applied to the axis of the rotating platform                                                                                                                                                                                                                                         |
| 容许惯性力矩负荷<br>Allowable Overturning Moment Load               | 在偏离旋转平台中心的位置施加负载，使得旋转平台倾斜的力会发生作用时中心的偏心量 × 负载而计算出的惯性力矩负荷的容许值。<br>The load is applied at a position deviating from the center of the rotating platform, so that the force of the tilting of the rotating platform will occur when the center of the eccentricity * the load is calculated as the allowable value of the inertia moment load |
| 定位精度<br>Positioning Accuracy                                | 旋转平台于 360°内对任意点进行定位时的理论旋转角度与实际旋转角度 <sup>注 2</sup> 的误差值。<br>The error between the theoretical rotation angle and the actual rotation angle <sup>Note 2</sup> when the rotary platform is positioned at any point within 360°                                                                                                               |
| 重复定位精度<br>Repeatability                                     | 表示从同一方向反复对相同位置进行定位时所产生的误差值。<br>Indicates the error value generated when the same position is repeatedly positioned from the same direction                                                                                                                                                                                                |
| 旋转平台平面度<br>Table Flatness                                   | 旋转平台安装盘面运转振幅。<br>Operating amplitude of the table surface                                                                                                                                                                                                                                                                                 |
| 旋转平台同心度<br>Table Concentricity                              | 无负载时旋转平台内径与外径的同心度误差值。<br>Concentricity error value of inner and outer diameter of rotating platform without load                                                                                                                                                                                                                          |
| 容许输入转速<br>Allowable Input Speed                             | 减速机结构部的机械强度可容许的输入转速。<br>The allowable input speed of the mechanical strength of the reducer structure                                                                                                                                                                                                                                     |
| 背隙<br>Backlash                                              | 是指固定电动机轴后，旋转平台的齿轮间隙。<br>Refers to the gear clearance of the rotating platform after fixing the motor shaft                                                                                                                                                                                                                                |
| 破坏转矩<br>Destructive Torque                                  | 当减速机承受此扭矩时结构会被破坏。<br>When the reducer is subjected to this torque, the structure will be destroyed                                                                                                                                                                                                                                        |
| 精度寿命<br>Accuracy Lifespan                                   | 减速机正常使用下能保持精度的设计寿命。<br>Designed life span that maintains accuracy under normal use of the reducer                                                                                                                                                                                                                                         |
| 防护等级 <sup>注 3</sup><br>Ingress Protection <sup>Note 3</sup> | 对于以 IEC529、EN60034-5(=IEC60034-5) 为基准的机器的防护构造，可按防尘、防水性的等级分类。<br>For the protection structure of machines based on IEC529 and EN60034-5 (= IEC60034-5), it can be classified according to the degree of dustproof and waterproof                                                                                                           |

注 1：转矩的单位互换 Note 1：Unit Exchange of Torque

| 转矩单位 Torque Unit | 1 N.m                   | 1 N.cm                | 1 kgf.m                 | 1 kgf.cm        | 1 lbf.ft               | 1 lbf.in                |
|------------------|-------------------------|-----------------------|-------------------------|-----------------|------------------------|-------------------------|
| 1 N.m            | 1                       | 10 <sup>2</sup>       | 0.10197                 | 10.197          | 0.7376                 | 8.8509                  |
| 1 N.cm           | 10 <sup>-2</sup>        | 1                     | 1.0197×10 <sup>-3</sup> | 0.10197         | 7.376×10 <sup>-3</sup> | 8.8509×10 <sup>-2</sup> |
| 1 kgf.m          | 9.8066                  | 980.665               | 1                       | 10 <sup>2</sup> | 7.233                  | 86.79                   |
| 1 kgf.cm         | 9.8066×10 <sup>-2</sup> | 9.8066                | 10 <sup>-2</sup>        | 1               | 7.233×10 <sup>-2</sup> | 0.8680                  |
| 1 lbf.ft         | 1.356                   | 1.356×10 <sup>2</sup> | 0.1383                  | 13.83           | 1                      | 12                      |
| 1 lbf.in         | 0.113                   | 11.3                  | 1.152×10 <sup>-2</sup>  | 1.152           | 8.333×10 <sup>-2</sup> | 1                       |

注 2：角度单位的表示方法 Note 2：Angle Units

| 角度單位<br>Angle Units         | 值<br>Value                 | 符号<br>Symbol                     | 简写<br>Shorthand |
|-----------------------------|----------------------------|----------------------------------|-----------------|
| 度<br>Degree                 | 1/360 圆<br>1/360 Circle    | °                                | Deg             |
| 弧分<br>Arc Minute            | 1/60 度<br>1/60 Degree      | ′（质数）<br>′（Prime Number）         | Arcmin,Amin,MOA |
| 角秒<br>Arc-second            | 1/60 弧分<br>1/60 Arcmin     | ″（双质数）<br>″（Double Prime Number） | Arcsec          |
| 千分之一角秒<br>1/1000 Arc Second | 1/1000 角秒<br>1/1000 Arcsec |                                  | Mas             |

注 3：IP 防护等级 Note 3：IP Ingress Protection

| IP No. | 防尘等级（第 1 位数）<br>Dustproof (first number)                                                                                               |
|--------|----------------------------------------------------------------------------------------------------------------------------------------|
| IP 0 X | 无特别的保护功能<br>No special protection                                                                                                      |
| IP 1 X | 直径超过 50mm 的物体不能进入<br>Objects over 50 mm in diameter cannot enter                                                                       |
| IP 2 X | 长度超过 80mm，直径超过 12mm 的物体不能进入<br>Objects over 80 mm in length and over 12mm in diameter cannot enter                                     |
| IP 3 X | 直径或厚度超过 2.5mm，直径超过 2.5mm 的物体不能进入<br>Objects with a diameter or thickness exceeding 2.5 mm and a diameter exceeding 2.5 mm cannot enter |
| IP 4 X | 厚度超过 1.0mm，直径超过 1.0mm 的物体不能进入<br>Objects with a thickness exceeding 1.0 mm and a diameter exceeding 1.0 mm cannot enter                |
| IP 5 X | 防止进入的灰尘影响设备工作<br>Prevent incoming dust from affecting equipment operation                                                              |
| IP 6 X | 完全防止灰尘进入<br>Completely prevent dust from entering                                                                                      |

| IP No. | 防水等级（第二位数字）<br>Waterproof (second number)                                                                                 |
|--------|---------------------------------------------------------------------------------------------------------------------------|
| IP X 0 | 无特别的保护功能<br>No special protection                                                                                         |
| IP X 1 | 垂直落下的滴水不会对电器造成损坏<br>Drops falling vertically will not cause damage to the appliance                                       |
| IP X 2 | 倾斜 15 度时，仍可防止水滴浸入<br>Prevents water droplets from immersing when tilted 15 degrees                                        |
| IP X 3 | 在与垂直方向成 60°范围内、受雾状水喷射无损害<br>In the range of 60° from the vertical direction, the sprayed water spray is not damaged.      |
| IP X 4 | 受任意方向的泼水无损害<br>Spilled by water in any direction without damage                                                           |
| IP X 5 | 任意方向直接受到水的喷射无损害<br>Directly affected by water spray in any direction without damage                                       |
| IP X 6 | 任意方向直接受到强大水流的冲击水不会进入内部<br>Impact water in any direction directly subjected to strong currents does not enter the interior |
| IP X 7 | 在特定条件下浸水后仍可正常使用<br>Underwater immersion can still be used normally under certain conditions                               |
| IP X 8 | 可在水下使用<br>Can be used underwater                                                                                          |





## GSZ 系列直角减速机 GSZ Series Right Angle Gearbox



采用锥齿轮结构，独特的直角设计便于调整传动件方向，有效节省安装空间。

高扭矩、高精度、低背隙、体积小、重量轻、安装简便，可与多种马达及减速机组合使用。

容许转矩 12Nm-95Nm  
规格：42/60/90

The bevel gear structure and unique right-angle design make it easier to adjust the direction of transmission components, while effectively saving installation space.

High torque, high precision, low backlash, small volume, light weight, easy to install.

Allowable Torque: 12Nm-95Nm  
Size: 42/60/90

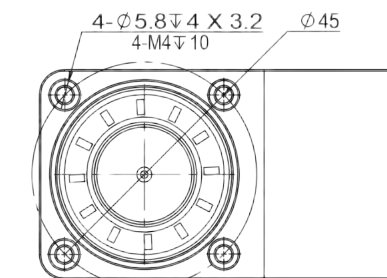
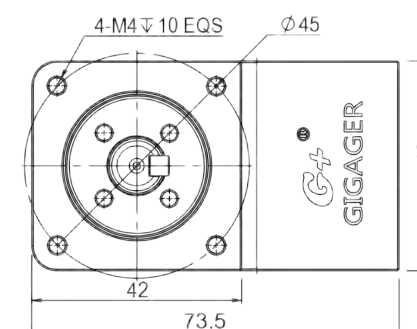
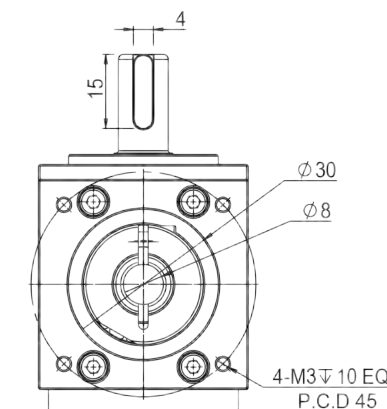
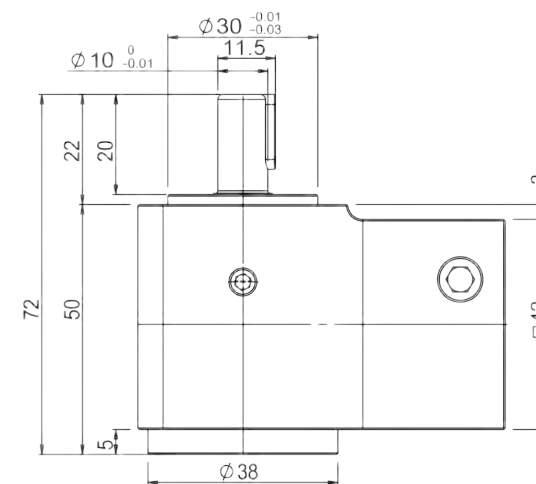
### 型号命名 Model

| 系列 Series | 规格 Size | 减速比 Gear Ratio |    | 马达规格 Motor                                                              |                                                                               |
|-----------|---------|----------------|----|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| GSZ       | 42      | 03             |    | SV1 : 伺服 Ø8 PCD45,M3<br>SV2 : 伺服 Ø8 PCD46,M4                            | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4                              |
|           | 60      | 02             | 03 | SV1 : 伺服 Ø14 PCD70,M4<br>SV2 : 伺服 Ø14 PCD70,M5<br>SV3 : 伺服 Ø11 PCD70,M4 | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4 |
|           | 90      | 02             | 03 | SV1 : 伺服 Ø19 PCD90,M5<br>SV2 : 伺服 Ø19 PCD90,M6                          | SV1: Servo Ø19 PCD90,M5<br>SV2: Servo Ø19 PCD90,M6                            |

### 技术参数 Technical Parameters

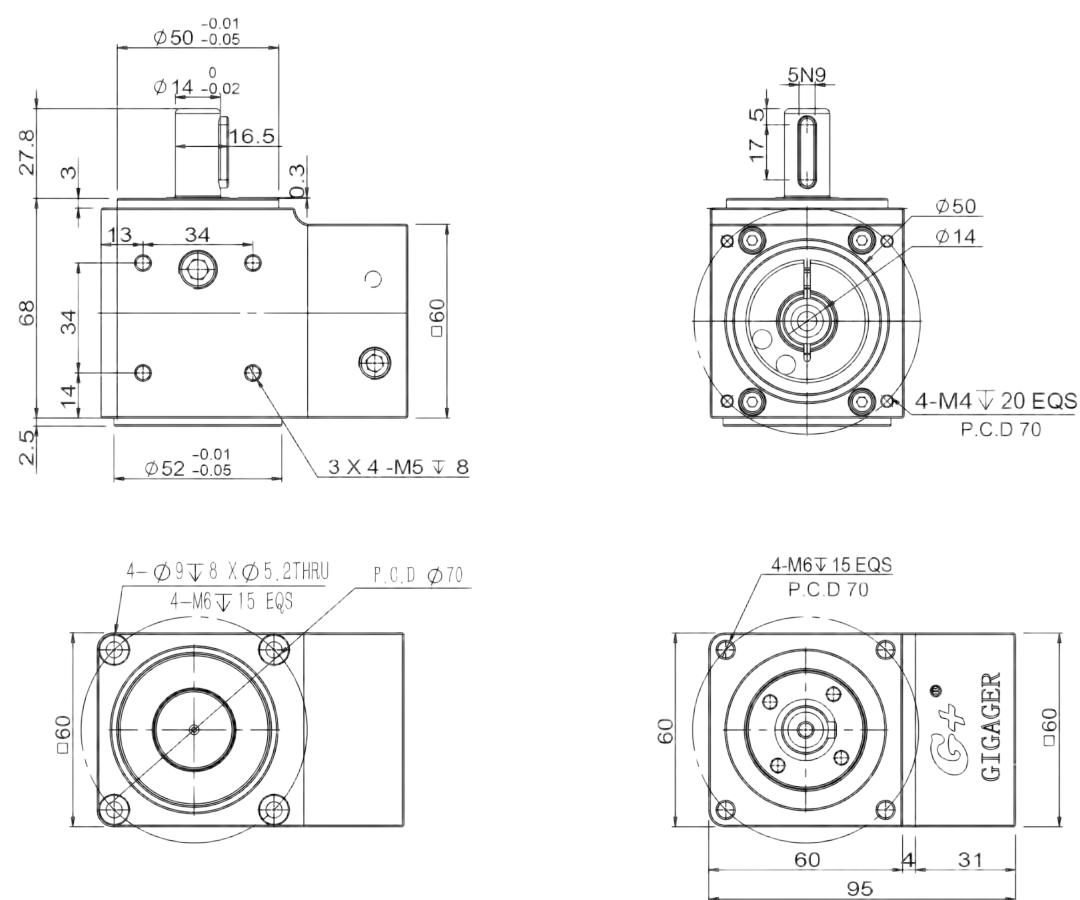
| 技术参数<br>Parameters              |         | 型号规格 Model |       |       |
|---------------------------------|---------|------------|-------|-------|
|                                 |         | GSZ42      | GSZ60 | GSZ90 |
| 容许转矩<br>Allowable Torque        | N.m     | 12         | 48    | 95    |
| 容许输入转速<br>Allowable Input Speed | rpm     | 2500       |       |       |
| 减速比<br>Gear Ratio               | i       | 3          | 2/3   | 2/3   |
| 背隙<br>Backlash                  | arc-min | ≤ 0.5      |       |       |
| 重量<br>Weight                    | kg      | 0.5        | 1.3   | 4.1   |

### GSZ42-03K-SV

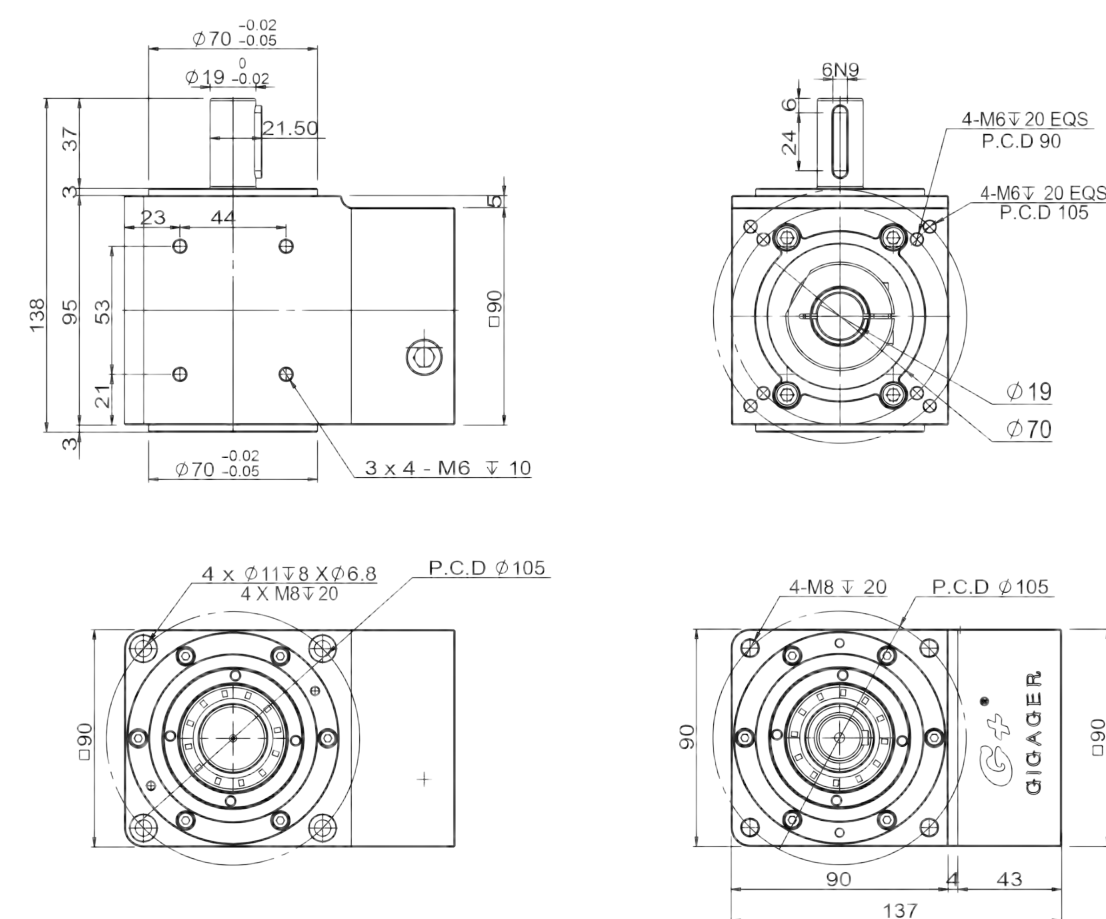




■ **GSZ60-02K-SV**  
■ **GSZ60-03K-SV**



■ **GSZ90-02K-SV**  
■ **GSZ90-03K-SV**



|                             |
|-----------------------------|
| GSH                         |
| GSR                         |
| GSHR                        |
| GSA                         |
| GR                          |
| GYH                         |
| GSN                         |
| GSB                         |
| GSG                         |
| 技术手册<br>Technical<br>Manual |
| <b>GSZ</b>                  |
| GMR                         |
| GMC                         |
| GMA                         |
| GML                         |

|                             |
|-----------------------------|
| GSH                         |
| GSR                         |
| GSHR                        |
| GSA                         |
| GR                          |
| GYH                         |
| GSN                         |
| GSB                         |
| GSG                         |
| 技术手册<br>Technical<br>Manual |
| <b>GSZ</b>                  |
| GMR                         |
| GMC                         |
| GMA                         |
| GML                         |



精密微型旋转轴  
Precision Mini Rotary Axes



GMR 系列 4.5 轴  
GMR Series 4.5 Axis



GMC 系列 5 轴  
GMC Series 5 Axis



GMA 系列 单臂式  
GMA Series



GML 系列 摇篮式  
GML Series

精巧：模块化设计，体积小，易安装。  
可靠：闭回路马达控制，具备 EtherCAT/CANopen。  
定制：可根据客户设备需求定制特殊规格。

应用行业：  
镗雕设备（多面加工）  
涂胶设备（多面涂胶）  
检测设备（3D 检测）  
轻型小龙门加工设备  
自动化设备（需做二维以上多面加工）

Smart, modular design, compact structure, easy installation.  
Closed-loop motor, supporting EtherCAT/CANopen.  
Customization available.

Applicable Industries:  
Laser engraving equipment (multi-faced processing)  
Automation equipment (multi-faced processing)  
Dispensing machine (multi-sided coating)  
Inspection Equipment (3D detection)  
Lightweight gantry machine

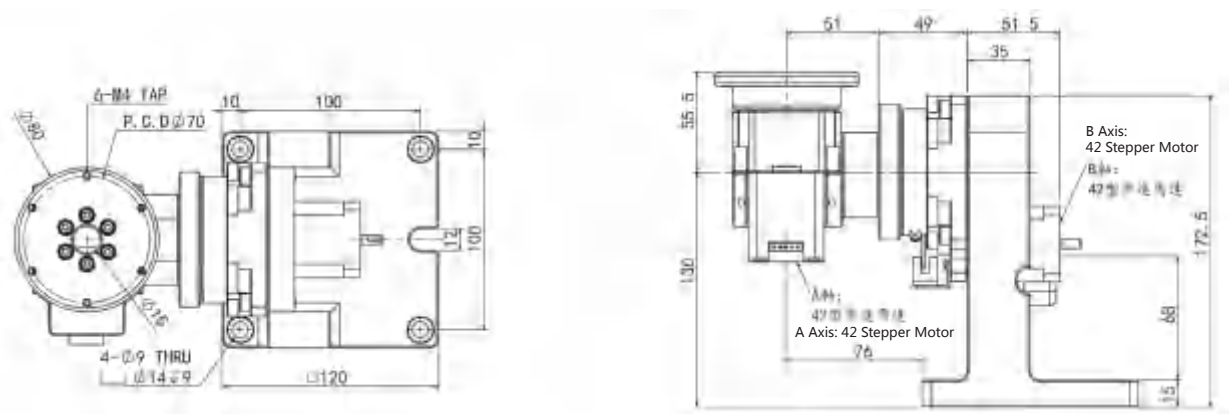
GMR60

| GMR            | 60         | 100                    | SV1                                                                                                                                                     | SV1                                                                                                                                                                                                                                                                                          | L                                 |
|----------------|------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 系列代码<br>Series | 规格<br>Size | 旋转轴半径<br>Rotary Radius | A 轴马达法兰<br>A Axis Motor Flange                                                                                                                          | B 轴马达法兰<br>B Axis Motor Flange                                                                                                                                                                                                                                                               | 附件<br>Accessories                 |
|                |            | 100                    | SV1：伺服 Ø8 PCD45,M3<br>SV2：伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                                                                                          | SV1：伺服 Ø14 PCD70,M4<br>SV2：伺服 Ø14 PCD70,M5<br>SV3：伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达                                                                                                                                                                                                  | 无：标准<br>None: Standard            |
|                |            | 140                    | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor                                                                        | SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                                                                                                                                                            | L：板金加长<br>L: Lengthen Metal Sheet |
|                |            | 190                    | ST1：步进 Ø5 PCD43.8,M3<br>ST2：步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达<br>ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor | ST1：步进 Ø6.35 PCD66.67,M4<br>ST2：步进 Ø6.35 PCD70.7,M4<br>ST3：步进 Ø8 PCD70.7,M4<br>ST4：步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达<br>ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |                                   |
|                |            |                        | S：标配步进马达<br>S: Dedicated Stepper Motor                                                                                                                  | S：标配步进马达<br>S: Dedicated Stepper Motor                                                                                                                                                                                                                                                       |                                   |

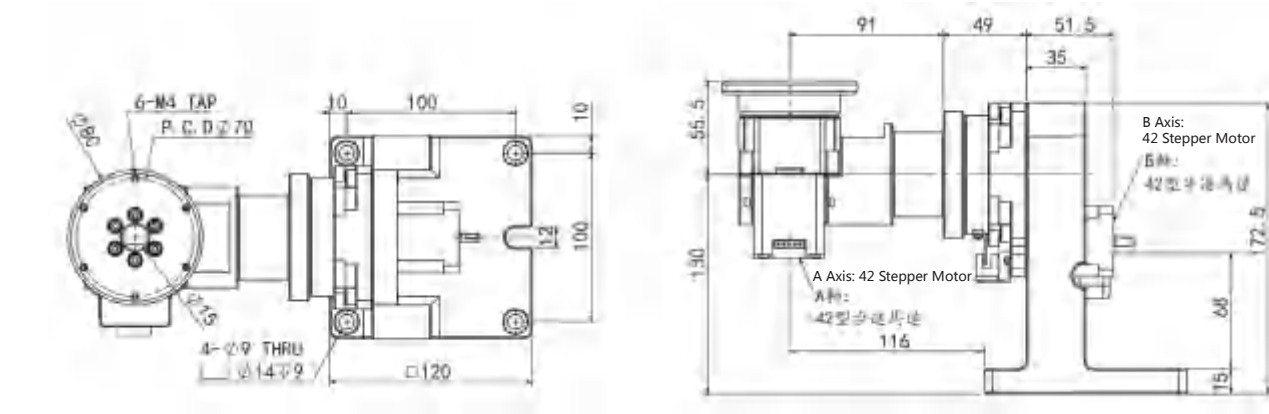
■ 技术参数 Technical Parameters

| 型号 / 规格 Model/Spec                            |               | GMR60-100                                                                | GMR60-140 | GMR60-190 |
|-----------------------------------------------|---------------|--------------------------------------------------------------------------|-----------|-----------|
| 容许转矩<br>Allowable Torque                      | N.m           | 5.3                                                                      |           |           |
| 容许荷重<br>Allowable Load                        | kg            | 3                                                                        |           |           |
| 旋转角度<br>Rotation Angle                        | A 轴<br>A Axis | 360°                                                                     |           |           |
|                                               | B 轴<br>B Axis | ±180°                                                                    |           |           |
| 旋转精度<br>Rotation Accuracy                     | A 轴<br>A Axis | ≤ 30"                                                                    |           |           |
|                                               | B 轴<br>B Axis | ≤ 30"                                                                    |           |           |
| 重复精度<br>Repeatability                         | A 轴<br>A Axis | ≤ 10"                                                                    |           |           |
|                                               | B 轴<br>B Axis | ≤ 10"                                                                    |           |           |
| 最大旋转半径<br>Max Rotation Radius                 | mm            | 90                                                                       | 130       | 180       |
| 二维同心度<br>2D Concentricity                     | mm            | ±0.02                                                                    |           |           |
| 二维平行度<br>2D Parallelism                       | mm            | ±0.02                                                                    |           |           |
| 盘面旋转振幅<br>Rotation Amplitude of Table Surface | mm            | ±0.005                                                                   |           |           |
| 减速比<br>Gear Ratio                             | i             | A ( 1:5 ) B ( 1:10 ) S ( 1:18 )                                          |           |           |
| 允许旋转速度<br>Allowable Rotation Speed            |               | 1080° /sec                                                               |           |           |
| 防护等级<br>Ingress Protection                    |               | IP60                                                                     |           |           |
| 马达<br>Motor                                   | A 轴<br>A Axis | 42 型步进马达 /100W 伺服马达<br>42 Stepper Motor/100W Servo Motor                 |           |           |
|                                               | B 轴<br>B Axis | 57/60 型步进马达 /200W~400W 伺服马达<br>57/60 Stepper Motor/200W~400W Servo Motor |           |           |

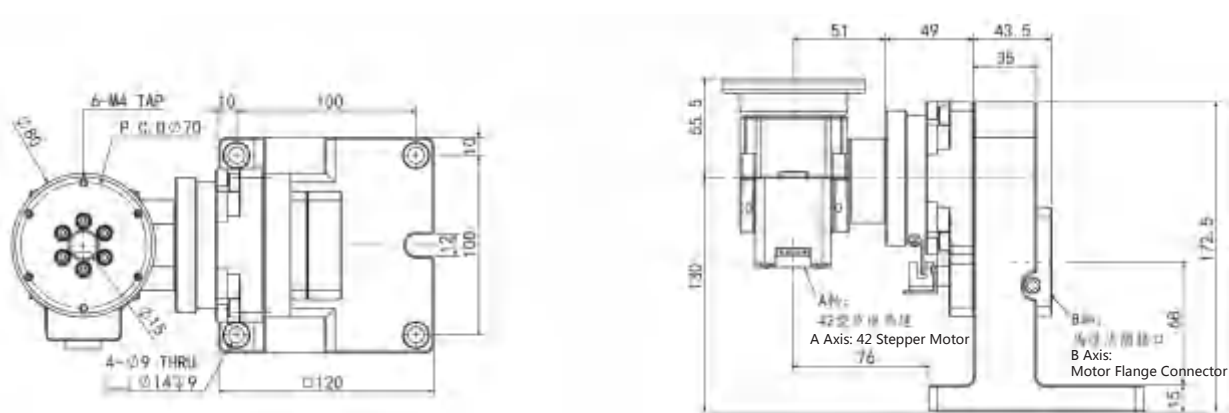
■ GMR60-100-S-S



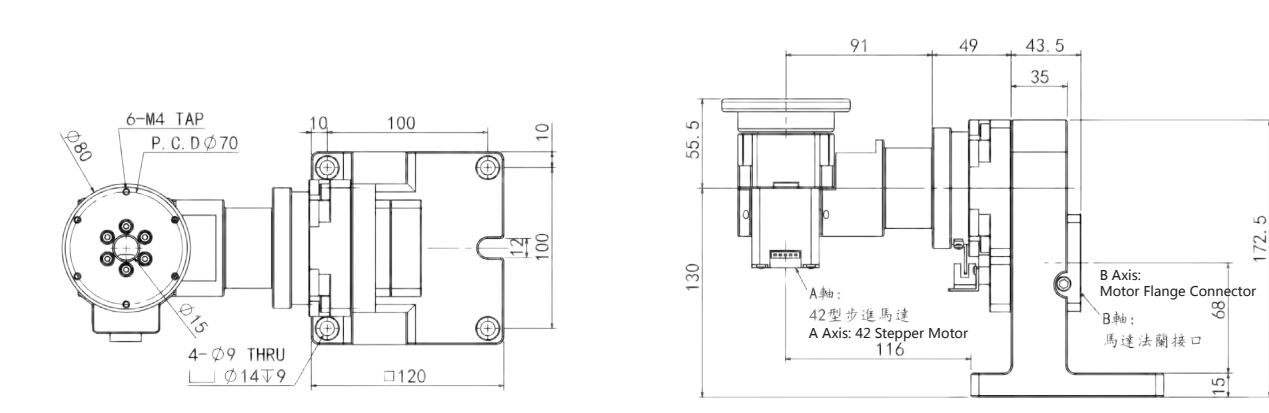
■ GMR60-140-S-S



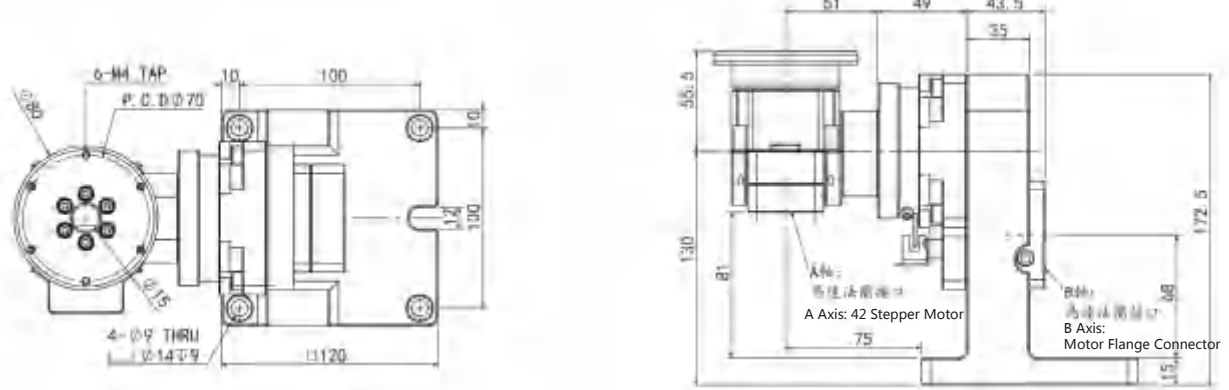
■ GMR60-100-S-SV1



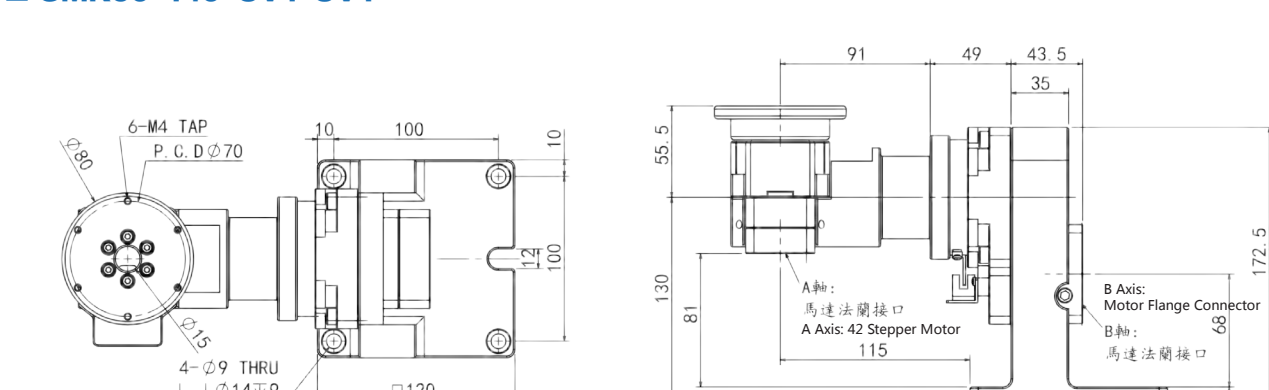
■ GMR60-140-S-SV1



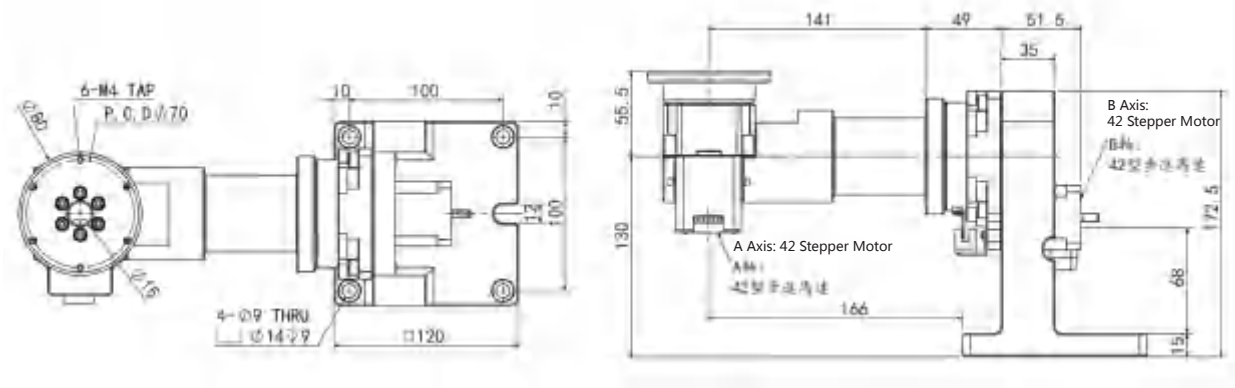
■ GMR60-100-SV1-SV1



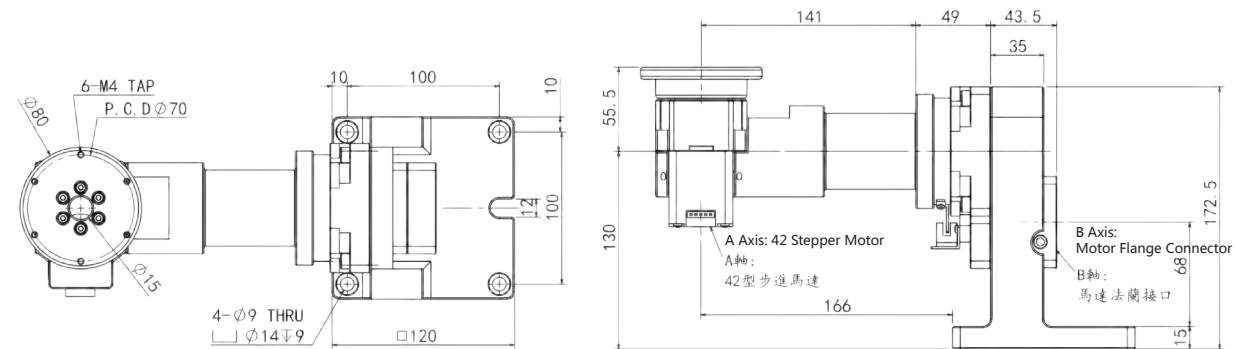
■ GMR60-140-SV1-SV1



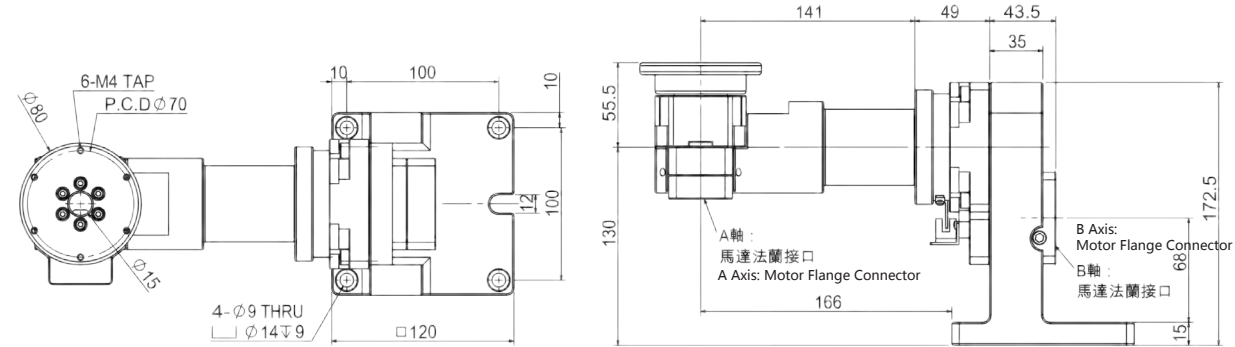
GMR60-190-S-S



GMR60-190-S-SV1



GMR60-190-SV1-SV1



GMC60

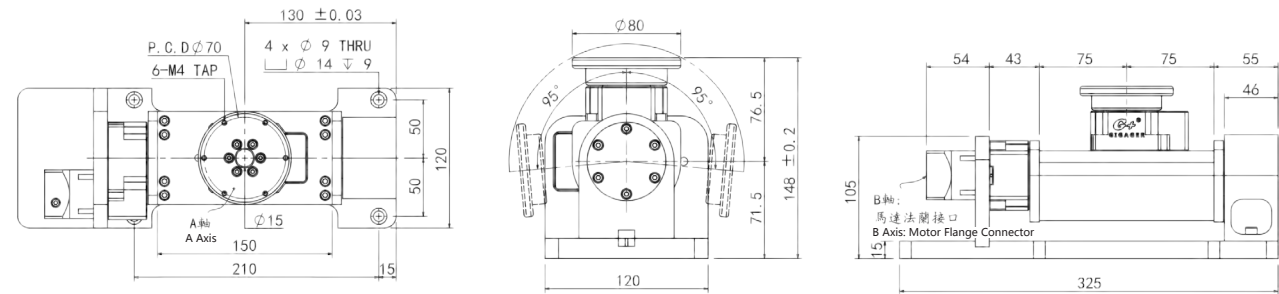
| GMC            | 60         | 150                  | S                                                    | SV1                                                                                                                                                                                                                                                                                                                                                                               | A                                                                  |
|----------------|------------|----------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 中板长度<br>Board Length | A 轴马达法兰<br>A Axis Motor Flange                       | B 轴马达法兰<br>B Axis Motor Flange                                                                                                                                                                                                                                                                                                                                                    | 附件<br>Accessories                                                  |
|                | 60         | 150                  | S : 标配开环步进马达<br>S: Dedicated Open Loop Stepper Motor | SV1 : 伺服 Ø8 PCD45,M3<br>SV2 : 伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达<br><br>SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor<br><br>ST1 : 步进 Ø5 PCD43.8,M3<br>ST2 : 步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达<br><br>ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor<br><br>S : 标配步进马达<br>S: Dedicated Stepper Motor | 无 : 标准<br>None: Standard<br><br>A : 气压接头<br>A: Pneumatic Connector |
|                | 85         | 200                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |

技术参数 Technical Parameters

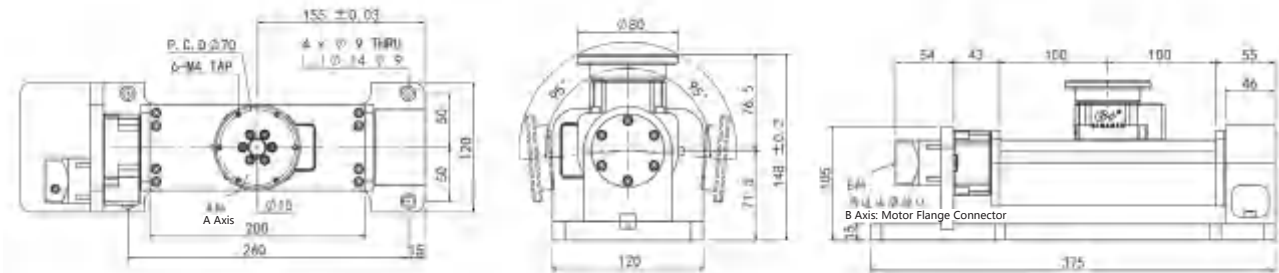
| 技术参数 Technical Parameters                     |               | GMC60-150                    | GMC60-200 |
|-----------------------------------------------|---------------|------------------------------|-----------|
| 容许转矩<br>Allowable Torque                      | N.m           | 5.3                          |           |
| 容许荷重<br>Allowable Load                        | kg            | 5                            |           |
| 旋转角度<br>Rotation Angle                        | A 轴<br>A Axis | 360°                         |           |
|                                               | B 轴<br>B Axis | ±95°                         |           |
| 旋转精度<br>Rotation Accuracy                     | A 轴<br>A Axis | ≤ 30"                        |           |
|                                               | B 轴<br>B Axis | ≤ 30"                        |           |
| 重复精度<br>Repeatability                         | A 轴<br>A Axis | ≤ 10"                        |           |
|                                               | B 轴<br>B Axis | ≤ 10"                        |           |
| 最大旋转半径<br>Max Rotation Radius                 | mm            | 150                          | 200       |
| 二维同心度<br>2D Concentricity                     | mm            | ±0.02                        |           |
| 二维平行度<br>2D Parallelism                       | mm            | ±0.02                        |           |
| 盘面旋转振幅<br>Rotation Amplitude of Table Surface | mm            | ±0.005                       |           |
| 减速比<br>Gear Ratio                             | i             | A ( 1:5 ) B ( 1:20 )         |           |
| 允许旋转速度<br>Allowable Rotation Speed            |               | 720° /sec                    |           |
| 防护等级<br>Ingress Protection                    |               | IP60                         |           |
| 马达<br>Motor                                   | A 轴<br>A Axis | 42 型步进马达<br>42 Stepper Motor |           |
|                                               | B 轴<br>B Axis | 42 型步进马达<br>42 Stepper Motor |           |



GMC60-150-S-SV1



GMC60-200-S-SV1



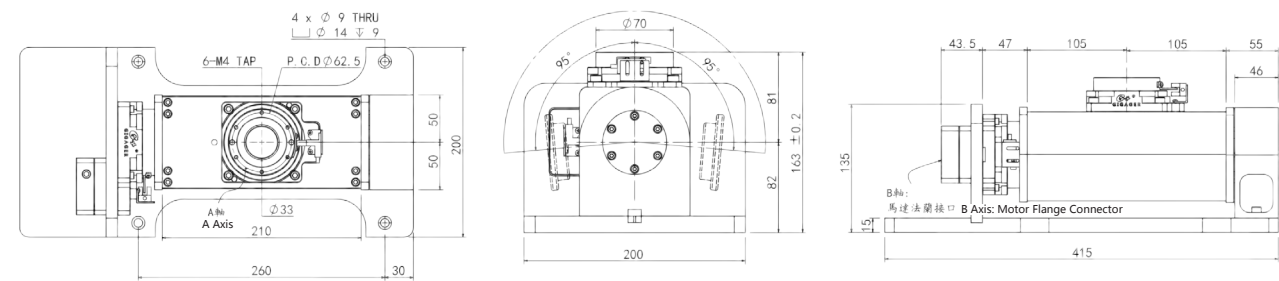
GMC85

| GMC            | 85         | -                    | 210                                                  | - | S | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SV1 | - | A                                                                  |
|----------------|------------|----------------------|------------------------------------------------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|--------------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 中板长度<br>Board Length | A 轴马达法兰<br>A Axis Motor Flange                       |   |   | B 轴马达法兰<br>B Axis Motor Flange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |   | 附件<br>Accessories                                                  |
|                | 60         | 210                  | S : 标配开环步进马达<br>S: Dedicated Open Loop Stepper Motor |   |   | SV1 : 伺服 Ø14 PCD70,M4<br>SV2 : 伺服 Ø14 PCD70,M5<br>SV3 : 伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达<br><br>SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor<br><br>ST1 : 步进 Ø6.35 PCD66.67,M4<br>ST2 : 步进 Ø6.35 PCD70.7,M4<br>ST3 : 步进 Ø8 PCD70.7,M4<br>ST4 : 步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达<br><br>ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor<br><br>S : 标配步进马达<br>S: Dedicated Stepper Motor |     |   | 无 : 标准<br>None: Standard<br><br>A : 气压接头<br>A: Pneumatic Connector |
|                | 85         | 310                  |                                                      |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |   |                                                                    |

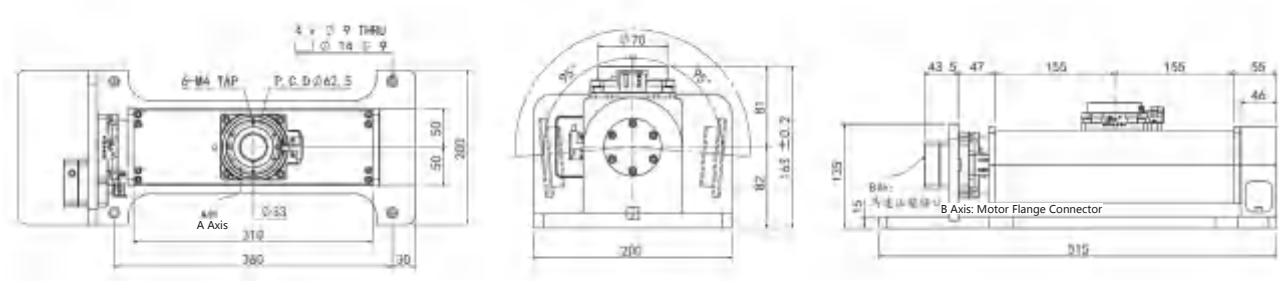
■ 技术参数 Technical Parameters

| 技术参数 Technical Parameters                     |               | GMC85-210                                                         | GMC85-310 |
|-----------------------------------------------|---------------|-------------------------------------------------------------------|-----------|
| 容许转矩<br>Allowable Torque                      | N.m           | 16                                                                |           |
| 容许荷重<br>Allowable Load                        | kg            | 20                                                                |           |
| 旋转角度<br>Rotation Angle                        | A 轴<br>A Axis | 360°                                                              |           |
|                                               | B 轴<br>B Axis | ±95°                                                              |           |
| 旋转精度<br>Rotation Accuracy                     | A 轴<br>A Axis | ≤ 30"                                                             |           |
|                                               | B 轴<br>B Axis | ≤ 30"                                                             |           |
| 重复精度<br>Repeatability                         | A 轴<br>A Axis | ≤ 10"                                                             |           |
|                                               | B 轴<br>B Axis | ≤ 10"                                                             |           |
| 最大旋转半径<br>Max Rotation Radius                 | mm            | 210                                                               | 310       |
| 二维同心度<br>2D Concentricity                     | mm            | ±0.02                                                             |           |
| 二维平行度<br>2D Parallelism                       | mm            | ±0.02                                                             |           |
| 盘面旋转振幅<br>Rotation Amplitude of Table Surface | mm            | ±0.005                                                            |           |
| 减速比<br>Gear Ratio                             | i             | A ( 1:18 ) B ( 1:10 )                                             |           |
| 允许旋转速度<br>Allowable Rotation Speed            |               | 540° /sec                                                         |           |
| 防护等级<br>Ingress Protection                    |               | IP60                                                              |           |
| 马达<br>Motor                                   | A 轴<br>A Axis | 57 型 /60 型步进马达 /200W 伺服马达<br>57/60 Stepper Motor/200W Servo Motor |           |
|                                               | B 轴<br>B Axis | 57 型 /60 型步进马达 /200W 伺服马达<br>57/60 Stepper Motor/200W Servo Motor |           |

GMC85-210-S-SV1



GMC85-310-S-SV1



GMA85

GMA

85

100

SV1

L

系列代码  
Series

规格  
Size

旋转轴半径  
Rotary Radius

马达法兰  
Motor Flange

附件  
Accessories

100

140

190

SV1 : 伺服 Ø14 PCD70,M4  
SV2 : 伺服 Ø14 PCD70,M5  
SV3 : 伺服 Ø11 PCD70,M4  
适配各品牌 200~400W AC 伺服马达  
  
SV1: Servo Ø14 PCD70,M4  
SV2: Servo Ø14 PCD70,M5  
SV3: Servo Ø11 PCD70,M4  
Suit for 200~400W AC Servo Motor

ST1 : 步进 Ø6.35 PCD66.67,M4  
ST2 : 步进 Ø6.35 PCD70.7,M4  
ST3 : 步进 Ø8 PCD70.7,M4  
ST4 : 步进 Ø8 PCD66.67,M4  
适配各品牌 57 型 /60 型步进马达  
  
ST1: Stepper Ø6.35 PCD66.67,M4  
ST2: Stepper Ø6.35 PCD70.7,M4  
ST3: Stepper Ø8 PCD70.7,M4  
ST4: Stepper Ø8 PCD66.67,M4  
Suit for 57/60 Stepper Motor

S : 标配步进马达  
S: Dedicated Stepper Motor

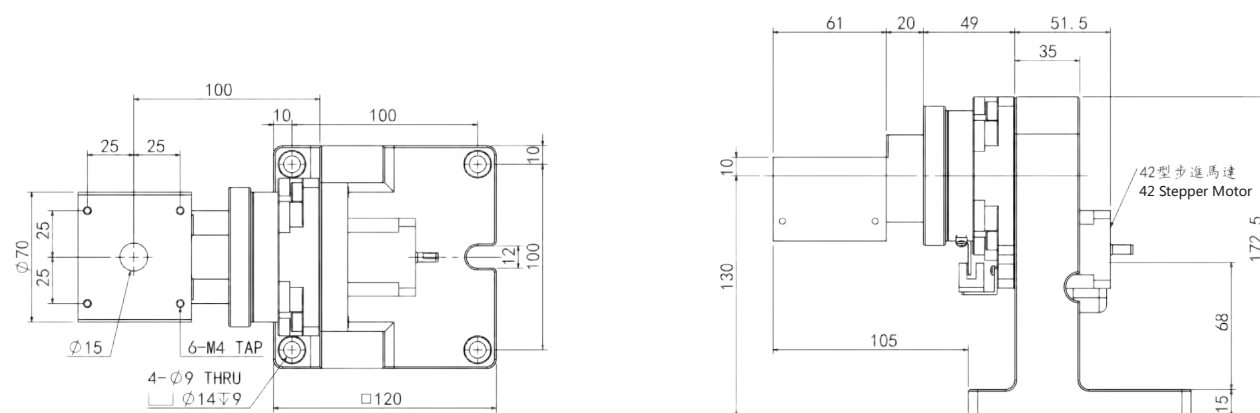
无 : 标准  
None: Standard

L : 板金加长  
L: Lengthen Metal Sheet

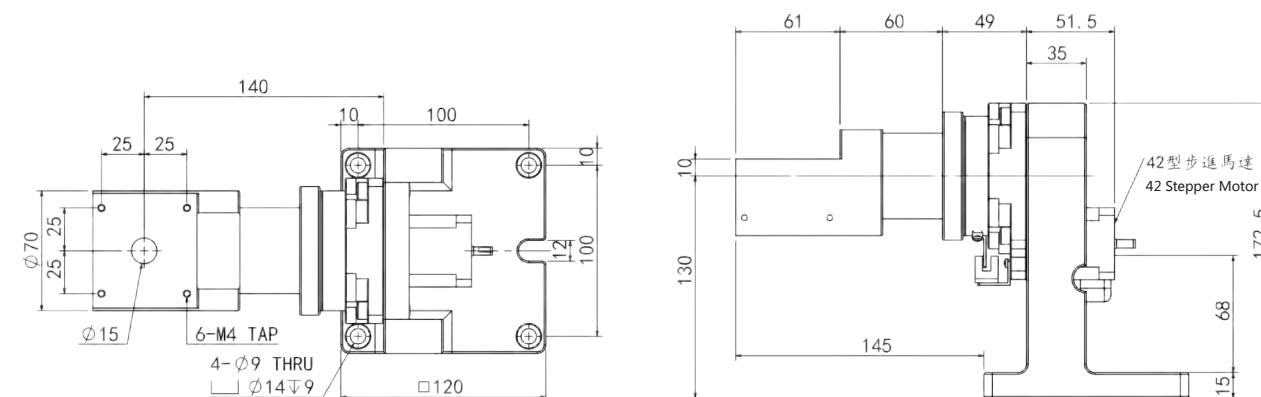
技术参数 Technical Parameters

| 技术参数 Technical Parameters       | GMA85-100                                                                   | GMA85-140 | GMA85-190 |
|---------------------------------|-----------------------------------------------------------------------------|-----------|-----------|
| 容许转矩 Allowable Torque           | 16 N.m                                                                      |           |           |
| 容许荷重 Allowable Load             | 10 kg                                                                       | 8 kg      | 6 kg      |
| 旋转角度 Rotation Angle             | ±180°                                                                       |           |           |
| 旋转精度 Rotation Accuracy          | ≤ 30"                                                                       |           |           |
| 重复精度 Repeatability              | ≤ 10"                                                                       |           |           |
| 最大旋转半径 Max Rotation Radius      | 90 mm                                                                       | 130 mm    | 180 mm    |
| 旋转同心度 Rotary Concentricity      | ±0.01 mm                                                                    |           |           |
| 旋转平行度 Flatness                  | ±0.01 mm                                                                    |           |           |
| 减速比 Gear Ratio                  | 10 i                                                                        |           |           |
| 允许旋转速度 Allowable Rotation Speed | 1080° /sec                                                                  |           |           |
| 防护等级 Ingress Protection         | IP60                                                                        |           |           |
| 马达 Motor                        | 57 型 /60 型步进马达 /200W~400W 伺服马达<br>57/60 Stepper Motor/200W~400W Servo Motor |           |           |

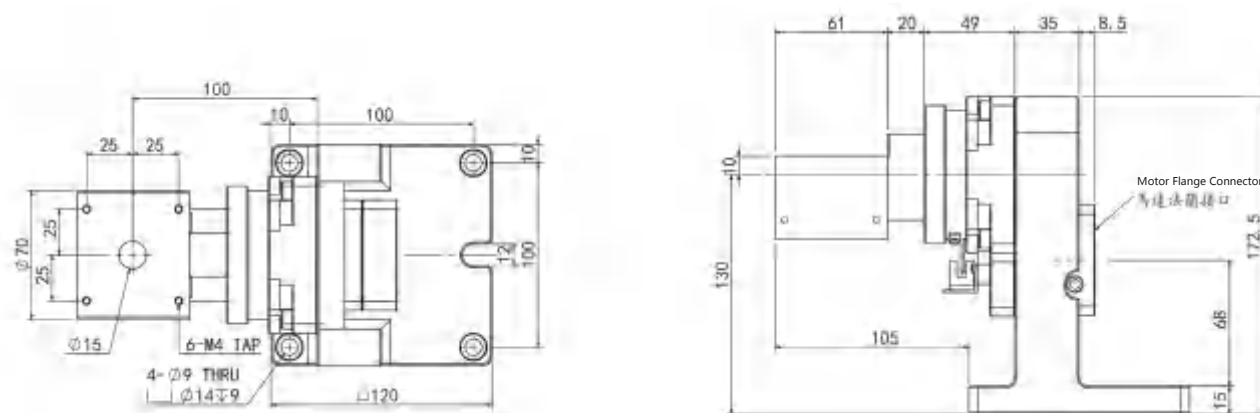
■ GMA85-100-S



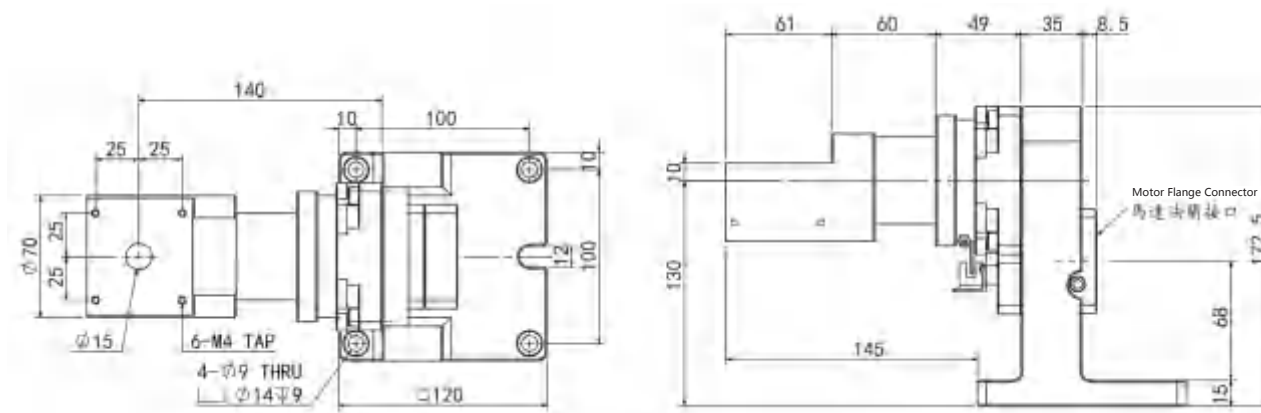
■ GMA85-140-S



■ GMA85-100-SV1



■ GMA85-140-SV1



GSH

GSR

GSHR

GSA

GR

GYH

GSN

GSB

GSG

技術手冊  
Technical  
Manual

GSZ

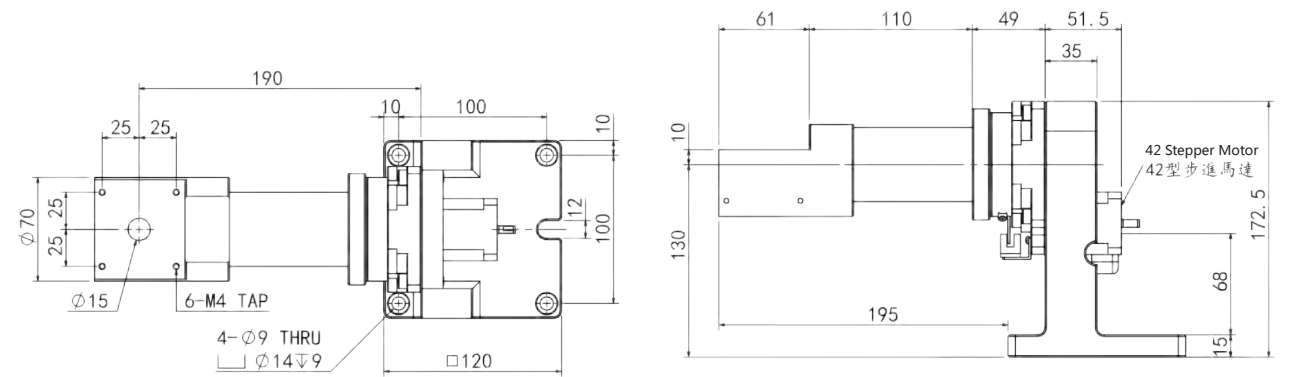
GMR

GMC

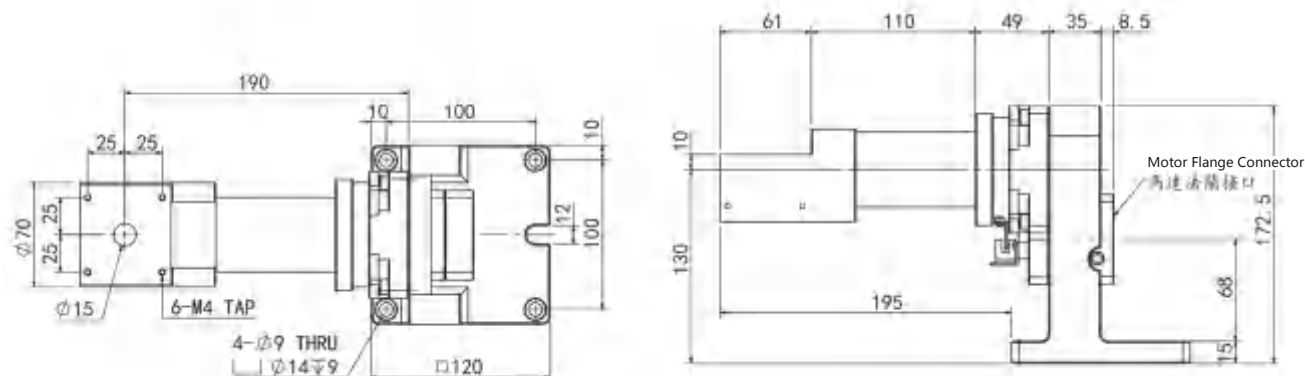
GMA

GML

GMA85-190-S



GMA85-190-SV1



GML60

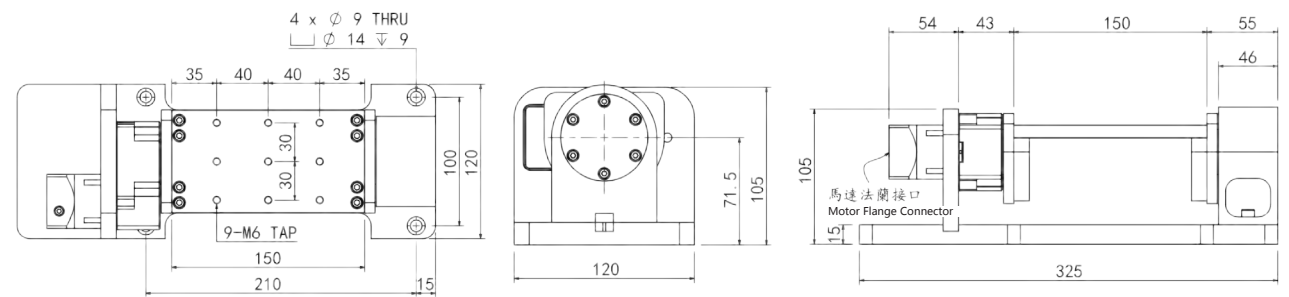
| GML            | 60         | 150                  | SV1                                                                                   | A                                  |
|----------------|------------|----------------------|---------------------------------------------------------------------------------------|------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 中板长度<br>Board Length | B 轴马达法兰<br>B Axis Motor Flange                                                        | 附件<br>Accessories                  |
|                | 60         | 150                  | SV1 : 伺服 Ø8 PCD45,M3<br>SV2 : 伺服 Ø8 PCD46,M4<br>适配各品牌 100W AC 伺服马达                    | 无 : 标准<br>None: Standard           |
|                | 85         | 200                  | SV1: Servo Ø8 PCD45,M3<br>SV2: Servo Ø8 PCD46,M4<br>Suit for 100W AC Servo Motor      | A : 气压接头<br>A: Pneumatic Connector |
|                |            |                      | ST1 : 步进 Ø5 PCD43.8,M3<br>ST2 : 步进 Ø6 PCD43.8,M3<br>适配各品牌 42 型步进马达                    |                                    |
|                |            |                      | ST1: Stepper Ø5 PCD43.8,M3<br>ST2: Stepper Ø6 PCD43.8,M3<br>Suit for 42 Stepper Motor |                                    |
|                |            |                      | S : 标配步进马达<br>S: Dedicated Stepper Motor                                              |                                    |

技术参数 Technical Parameters

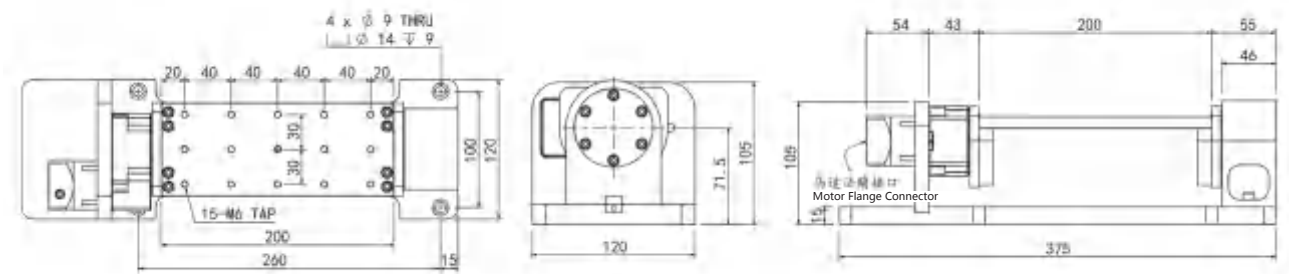
| 技术参数 Technical Parameters          | GML60-150 | GML60-200                                                        |
|------------------------------------|-----------|------------------------------------------------------------------|
| 容许转矩<br>Allowable Torque           | N.m       | 5.3                                                              |
| 容许荷重<br>Allowable Load             | kg        | 5                                                                |
| 旋转角度<br>Rotation Angle             |           | ±95°                                                             |
| 旋转精度<br>Rotation Accuracy          |           | ≤ 30"                                                            |
| 重复精度<br>Repeatability              |           | ≤ 10"                                                            |
| 最大旋转半径<br>Max Rotation Radius      | mm        | 150                                                              |
| 旋转同心度<br>Rotary Concentricity      | mm        | ±0.01                                                            |
| 旋转平行度<br>Flatness                  | mm        | ±0.01                                                            |
| 减速比<br>Gear Ratio                  | i         | 20                                                               |
| 允许旋转速度<br>Allowable Rotation Speed |           | 720° /sec                                                        |
| 防护等级<br>Ingress Protection         |           | IP60                                                             |
| 马达<br>Motor                        |           | 42 型步进马达 /50W~100W 伺服马达<br>42 Stepper Motor/50W~100W Servo Motor |



GML60-150-SV1



GML60-200-SV1



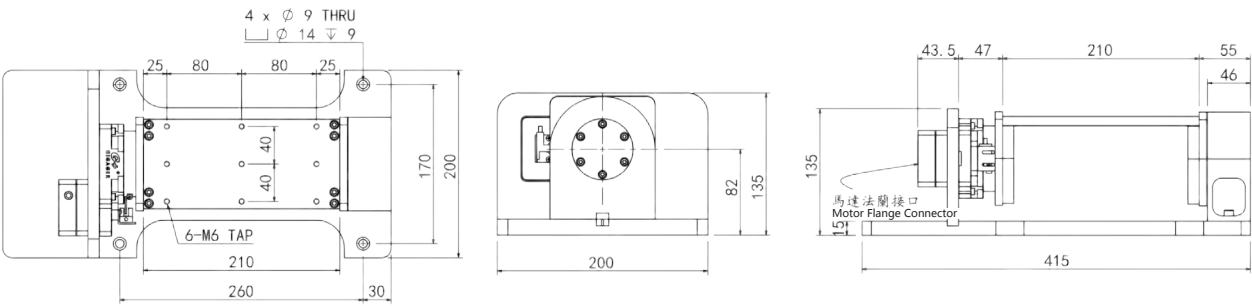
GML85

| GML            | 85         | 210                  | SV1                                                                                                                                                                                                                                                                                                  | A                                                              |
|----------------|------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 系列代码<br>Series | 规格<br>Size | 中板长度<br>Board Length | B 轴马达法兰<br>B Axis Motor Flange                                                                                                                                                                                                                                                                       | 附件<br>Accessories                                              |
|                | 60         | 210                  | SV1 : 伺服 Ø14 PCD70,M4<br>SV2 : 伺服 Ø14 PCD70,M5<br>SV3 : 伺服 Ø11 PCD70,M4<br>适配各品牌 200~400W AC 伺服马达<br>SV1: Servo Ø14 PCD70,M4<br>SV2: Servo Ø14 PCD70,M5<br>SV3: Servo Ø11 PCD70,M4<br>Suit for 200~400W AC Servo Motor                                                                               | 无 : 标准<br>None: Standard<br>A : 气压接头<br>A: Pneumatic Connector |
|                | 85         | 310                  |                                                                                                                                                                                                                                                                                                      |                                                                |
|                |            |                      | ST1 : 步进 Ø6.35 PCD66.67,M4<br>ST2 : 步进 Ø6.35 PCD70.7,M4<br>ST3 : 步进 Ø8 PCD70.7,M4<br>ST4 : 步进 Ø8 PCD66.67,M4<br>适配各品牌 57 型 /60 型步进马达<br>ST1: Stepper Ø6.35 PCD66.67,M4<br>ST2: Stepper Ø6.35 PCD70.7,M4<br>ST3: Stepper Ø8 PCD70.7,M4<br>ST4: Stepper Ø8 PCD66.67,M4<br>Suit for 57/60 Stepper Motor |                                                                |
|                |            |                      | S : 标配步进马达<br>S: Dedicated Stepper Motor                                                                                                                                                                                                                                                             |                                                                |

技术参数 Technical Parameters

| 技术参数 Technical Parameters          |     | GML85-210                                                                   | GML85-310 |
|------------------------------------|-----|-----------------------------------------------------------------------------|-----------|
| 容许转矩<br>Allowable Torque           | N.m | 16                                                                          |           |
| 容许荷重<br>Allowable Load             | kg  | 20                                                                          |           |
| 旋转角度<br>Rotation Angle             |     | ±95°                                                                        |           |
| 旋转精度<br>Rotation Accuracy          |     | ≤ 30"                                                                       |           |
| 重复精度<br>Repeatability              |     | ≤ 10"                                                                       |           |
| 最大旋转半径<br>Max Rotation Radius      | mm  | 210                                                                         | 310       |
| 旋转同心度<br>Rotary Concentricity      | mm  | ±0.01                                                                       |           |
| 旋转平行度<br>Flatness                  | mm  | ±0.01                                                                       |           |
| 减速比<br>Gear Ratio                  | i   | 10                                                                          |           |
| 允许旋转速度<br>Allowable Rotation Speed |     | 540° /sec                                                                   |           |
| 防护等级<br>Ingress Protection         |     | IP60                                                                        |           |
| 马达<br>Motor                        |     | 57 型 ~60 型步进马达 /200W~400W 伺服马达<br>57~60 Stepper Motor/200W~400W Servo Motor |           |

■ GML85-210-SV1



■ GML85-310-SV1

