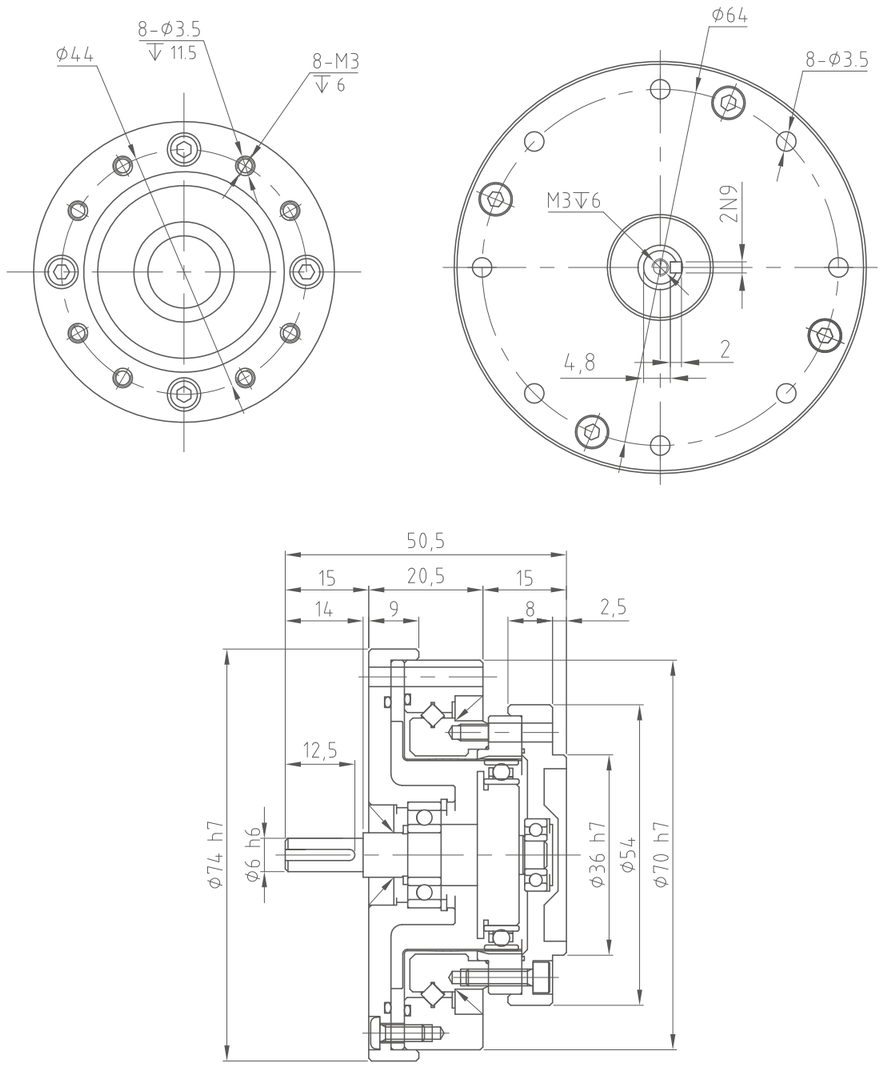
## ST/ SN-14-XX-U-IV

### 14型谐波减速器 14 harmonic reducer

结构图 STRUCTURE CHART

有键槽槽（Keyway）

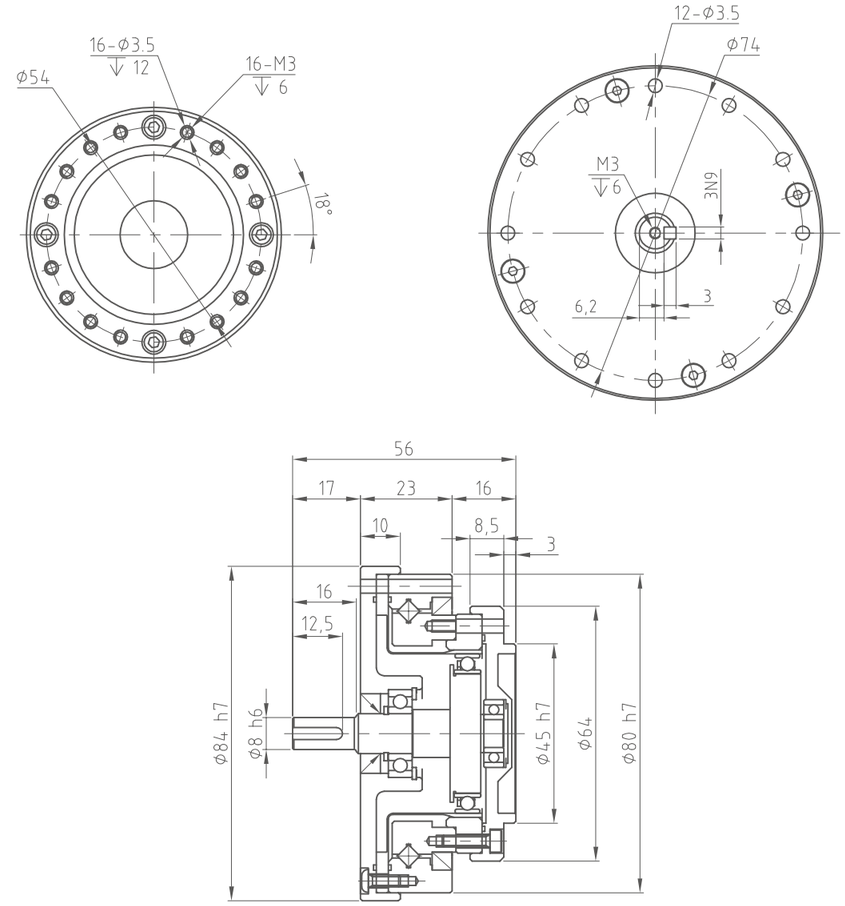



## ST/ SN-17XX-U-IV

### 17型谐波减速器 17 harmonic reducer

结构图 STRUCTURE CHART

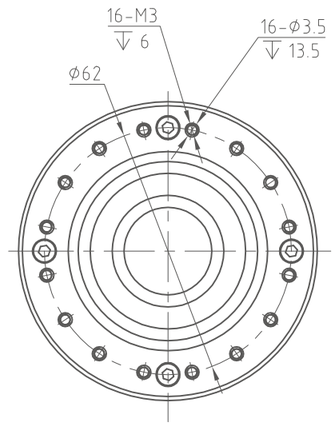
有键槽槽（Keyway）

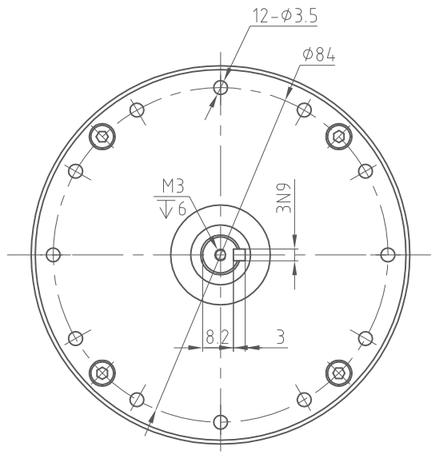


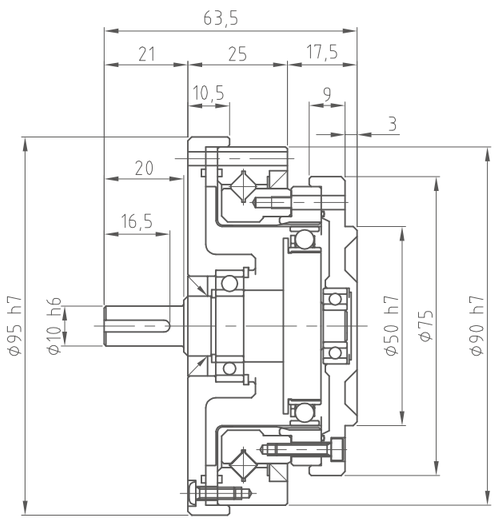
## ST/ SN-20-XX-U-IV

### 20型谐波减速器 20 harmonic reducer

结构图 STRUCTURE CHART



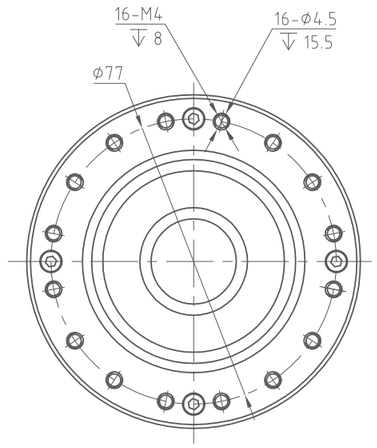



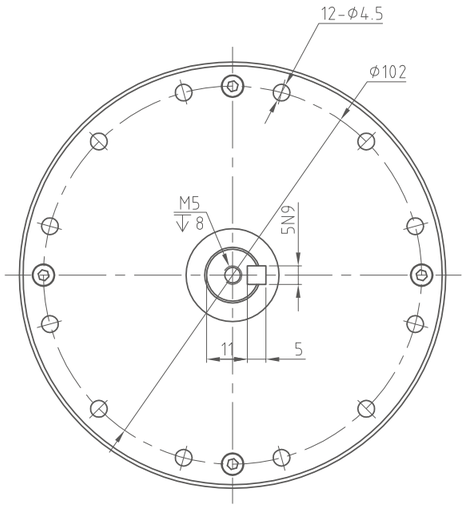



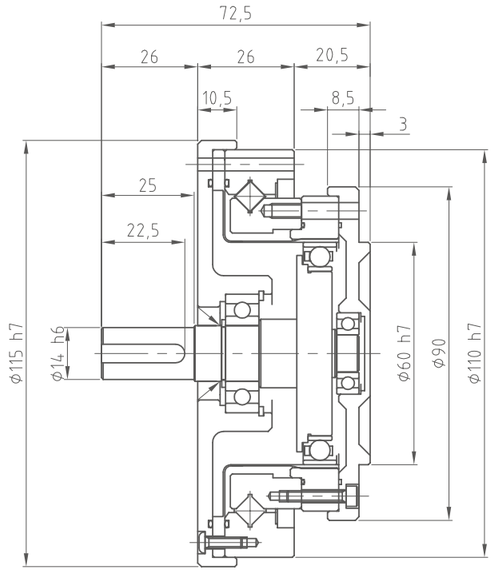

## ST/ SN-25-XX-U-IV

### 25型谐波减速器 25 harmonic reducer

结构图 STRUCTURE CHART



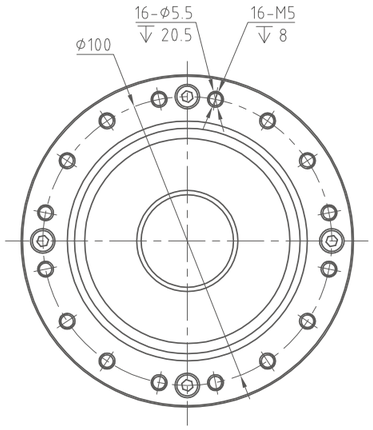



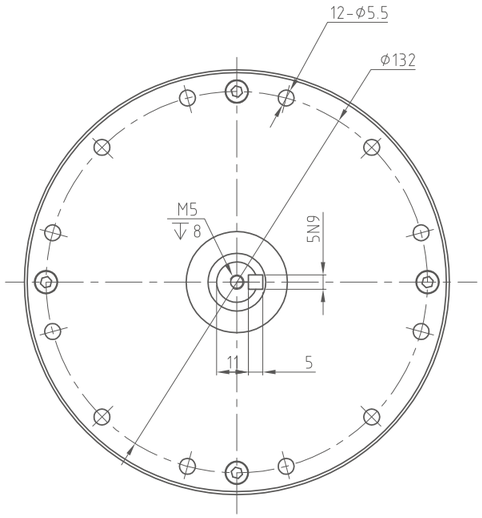



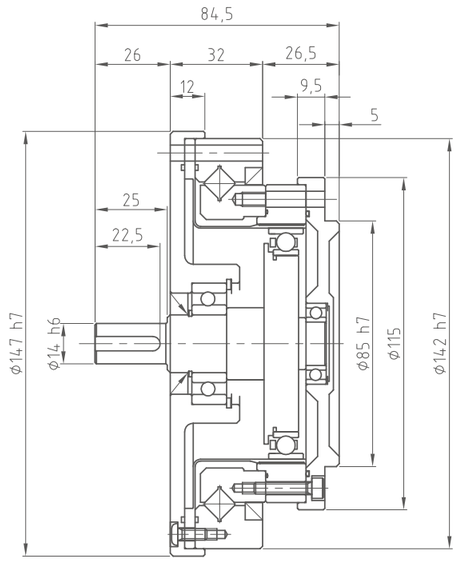
## ST/ SN-32-XX-U-IV

### 32型谐波减速器 32 harmonic reducer

结构图 STRUCTURE CHART



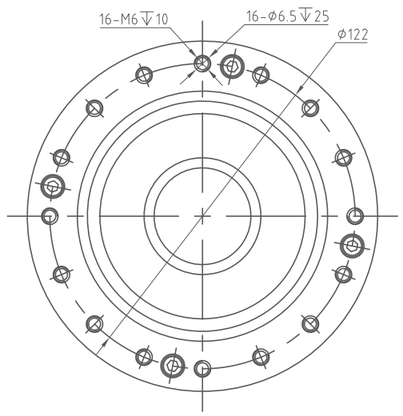



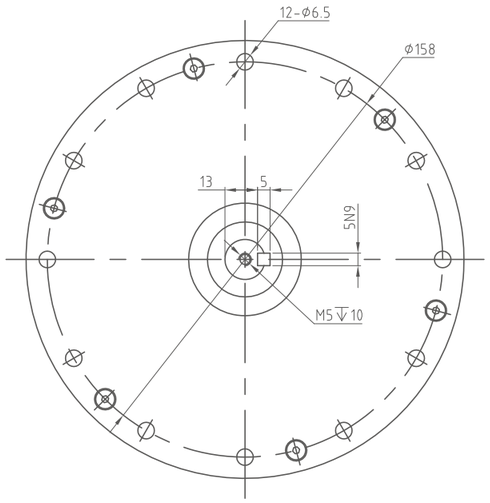



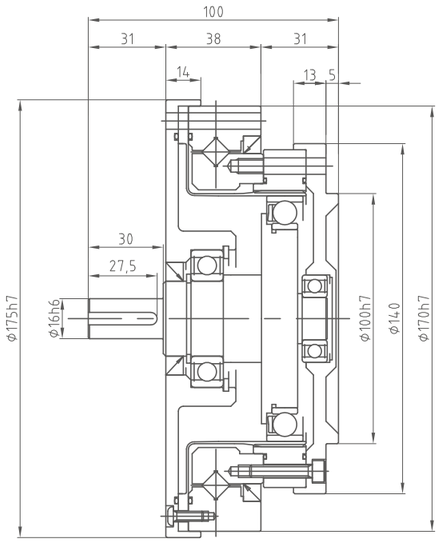

## ST/ SN-40-XX-U-IV

### 40型谐波减速器 40 harmonic reducer

结构图 STRUCTURE CHART



# SG SERIES

低噪音 Low noise　大扭力 Large torque

高精度 High-precision

耐磨耐用 Wear resistance and durability

使用寿命长 Long service life

## SG高扭矩系列谐波减速器
SG high torque series harmonic reducer









简易型
Simple type( SG-I)

# SERIES INTRODUCTION
## 系列介绍

### SG-I 系列Series

高转矩用，转矩容量比标准产品提升30%，使用寿命提高43%，追求高负载容量，高可靠性。

High torque. Compare with standard products, SG series torque capacity is 30%higher and the service life is increased by 43%, with high load capacity and high reliability.

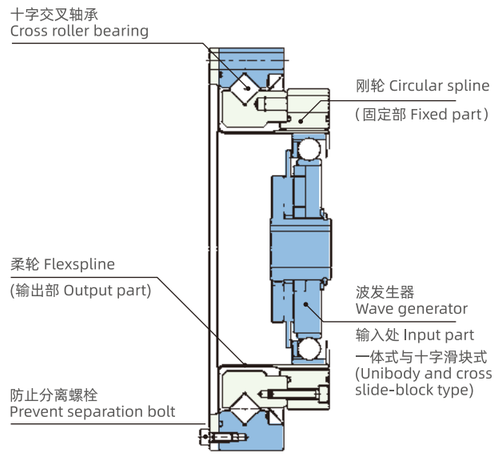
### 应用领域 Application

- 工业机器人 Industrial robots
- 服务机器人 Service Robots
- 医疗器械设备 Medical Devices
- 印刷电路制造设备 Printed circuit manufacturing equipment
- 自动化及特种设备 Automation and special equipment

SG系列 SG series

### SG-I系列组合型结构 Combinative structure of SG-I series

简易型Simple type
( SG-I)



## SG-I高扭矩性能参数表 Performance parameter table of SG-I high torque series

| 型号 Model | 速比 Reduction ratio | 输入2000r/min时的额定转矩 Rated torque at 2000r/min input | | 起动停止时的容许峰值转矩 Permissible peak torque at start and stop | | 平均负载转矩的容许最大值 Permissible maximum value for average load torque | | 瞬间容许最大转矩 Permissible maximum momentary torque | | 容许最高输入转速(脂润滑) Permissible maximum input rotational speed (Grease) | 容许平均输入转速(脂润滑) Permissible average input rotational speed (Greaae) | 背隙 Backlash | 设计寿命 Desian life |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Nm | kgfm | Nm | kgfm | Nm | kgfm | Nm | kgfm | r/min | r/min | Arc Sec | Hour |
| 14 | 50 | 7 | 0.7 | 23 | 23 | 9 | 0.9 | 46 | 4.7 | 8500 | 3500 | ≤20 | 10000 |
| | 80 | 10 | 1.0 | 30 | 3.1 | 14 | 1.4 | 61 | 6.2 | | | | 15000 |
| | 100 | 10 | 1.0 | 36 | 3.7 | 14 | 1.4 | 70 | 7.2 | | | | 15000 |
| | 120 | 10 | 1.0 | 36 | 3.7 | 14 | 1.4 | 70 | 7.2 | | | | 15000 |
| 17 | 50 | 21 | 2.1 | 44 | 4.5 | 34 | 3.4 | 91 | 9 | 7300 | 3500 | ≤20 | 10000 |
| | 80 | 29 | 2.9 | 56 | 5.7 | 35 | 3.6 | 113 | 12 | | | | 15000 |
| | 100 | 31 | 3.2 | 70 | 7.2 | 51 | 5.2 | 143 | 15 | | | | 15000 |
| | 120 | 31 | 3.2 | 70 | 7.2 | 51 | 5.2 | 112 | 11 | | | | 15000 |
| 20 | 50 | 33 | 3.3 | 73 | 7.4 | 44 | 4.5 | 127 | 13 | 6500 | 3500 | ≤20 | 10000 |
| | 80 | 44 | 4.5 | 96 | 9.8 | 61 | 6.2 | 165 | 17 | | | | 15000 |
| | 100 | 52 | 5.3 | 107 | 10.9 | 64 | 6.5 | 191 | 20 | | | | 15000 |
| | 120 | 52 | 5.3 | 113 | 11.5 | 64 | 6.5 | 191 | 20 | | | | 15000 |
| | 160 | 52 | 5.3 | 120 | 12.2 | 64 | 6.5 | 191 | 20 | | | | 15000 |
| 25 | 50 | 51 | 5.2 | 127 | 13 | 72 | 7.3 | 242 | 25 | 5600 | 3500 | ≤20 | 10000 |
| | 80 | 82 | 8.4 | 178 | 18 | 113 | 12 | 332 | 34 | | | | 15000 |
| | 100 | 87 | 8.9 | 204 | 21 | 140 | 14 | 369 | 38 | | | | 15000 |
| | 120 | 87 | 8.9 | 217 | 22 | 140 | 14 | 395 | 40 | | | | 15000 |
| 32 | 50 | 99 | 10 | 281 | 29 | 140 | 14 | 497 | 51 | 4800 | 3500 | ≤20 | 10000 |
| | 80 | 153 | 16 | 395 | 40 | 217 | 22 | 738 | 75 | | | | 15000 |
| | 100 | 178 | 18 | 433 | 44 | 281 | 29 | 841 | 86 | | | | 15000 |
| | 120 | 178 | 18 | 459 | 47 | 281 | 29 | 892 | 91 | | | | 15000 |
| 40 | 50 | 178 | 18 | 523 | 53 | 255 | 26 | 892 | 91 | 4000 | 3000 | ≤20 | 10000 |
| | 80 | 268 | 27 | 675 | 69 | 369 | 38 | 1270 | 130 | | | | 15000 |
| | 100 | 345 | 35 | 738 | 75 | 484 | 49 | 1400 | 143 | | | | 15000 |
| | 120 | 382 | 39 | 802 | 82 | 586 | 60 | 1530 | 156 | | | | 15000 |

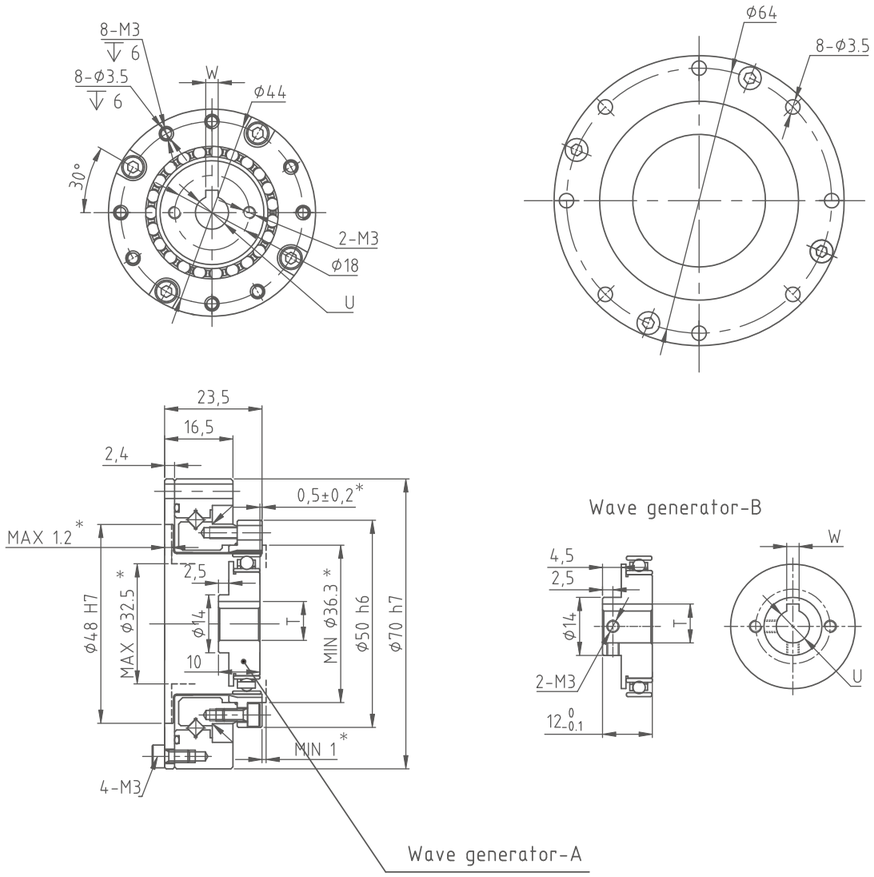
## SG-I型密封圈、槽尺寸 SG-I Seal Ring and Slot Size

| 型号 Series | 上壳体 Upper shell | | | | 下壳体 Lower shell | | | | 备注 Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 大径 Big diameter | 小径 Small diameter | 深度 Depth | 密封圈尺寸 Seal Ring Size | 大径 Big diameter | 小径 Small diameter | 深度 Depth | 密封圈尺寸 Seal Ring Size | |
| 14 | $39.6^{+0.1}_{0}$ | $37^{0}_{-0.1}$ | $0.75^{+0.1}_{0}$ | 37*1 | $56.8^{+0.1}_{0}$ | $53^{0}_{-0.1}$ | $1.15^{+0.1}_{0}$ | 53*1.5 | |
| 17 | $49.1^{+0.1}_{0}$ | $46.5^{0}_{-0.1}$ | $0.75^{+0.1}_{0}$ | 46.5*1 | $66.6^{+0.1}_{0}$ | $64^{0}_{-0.1}$ | $0.75^{+0.1}_{0}$ | 64*1 | |
| 20 | $57.6^{+0.1}_{0}$ | $55^{0}_{-0.1}$ | $0.75^{+0.1}_{0}$ | 55*1 | $76.86^{+0.1}_{0}$ | $73^{0}_{-0.1}$ | $1.15^{+0.1}_{0}$ | 73*1.5 | |
| 25 | $70.6^{+0.1}_{0}$ | $68^{0}_{-0.1}$ | $0.75^{+0.1}_{0}$ | 68*1 | $94.2^{+0.1}_{0}$ | $90^{0}_{-0.1}$ | $1.15^{+0.1}_{0}$ | 90*1.5 | |
| 32 | $92^{+0.1}_{0}$ | $88^{0}_{-0.1}$ | $1.15^{+0.1}_{0}$ | 88*1.5 | $123.1^{+0.1}_{0}$ | $119^{0}_{-0.1}$ | $1.15^{+0.1}_{0}$ | 120*1.5 | |

## SG-14-XX-U-I

### 14型谐波减速器 14 harmonic reducer

结构图 STRUCTURE CHART




| 型号/MODEL | U | T | W |
|---|---|---|---|
| Wave generator-A φ6 | φ6H7 | $7^{+0.1}_{0}$ | 2JS9/P9 |
| Wave generator-A φ8 | φ8H7 | $9.4^{+0.1}_{0}$ | 3JS9/P9 |