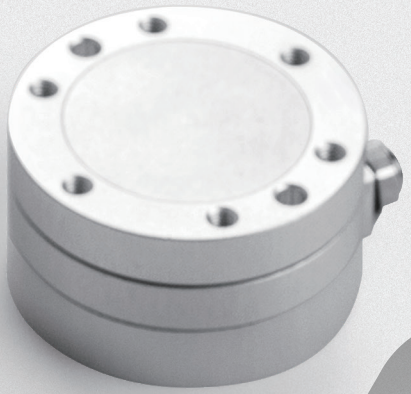
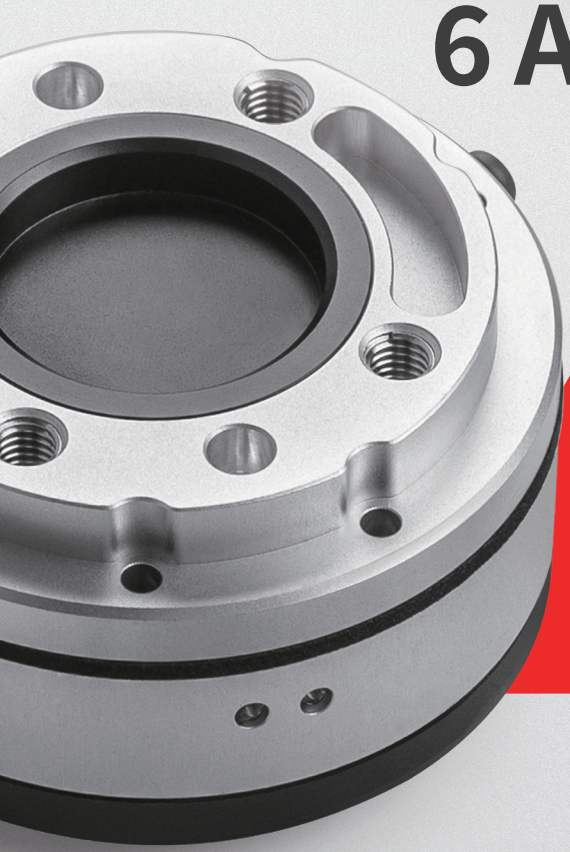
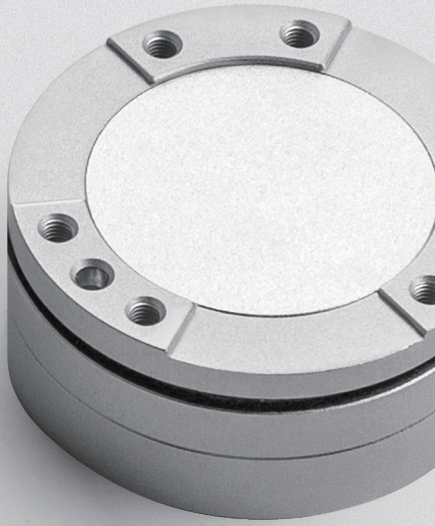
KUNWEI



# 6 Axis Force Sensors
## Selection Manual

KWR75 Series





FORCE SENSOR

**Let the Robot Feel the Wonderful World**

Dedication

Passion

Truth-seeking

Innovation

Responsibility

Altruism

**2018**
Established in 2018

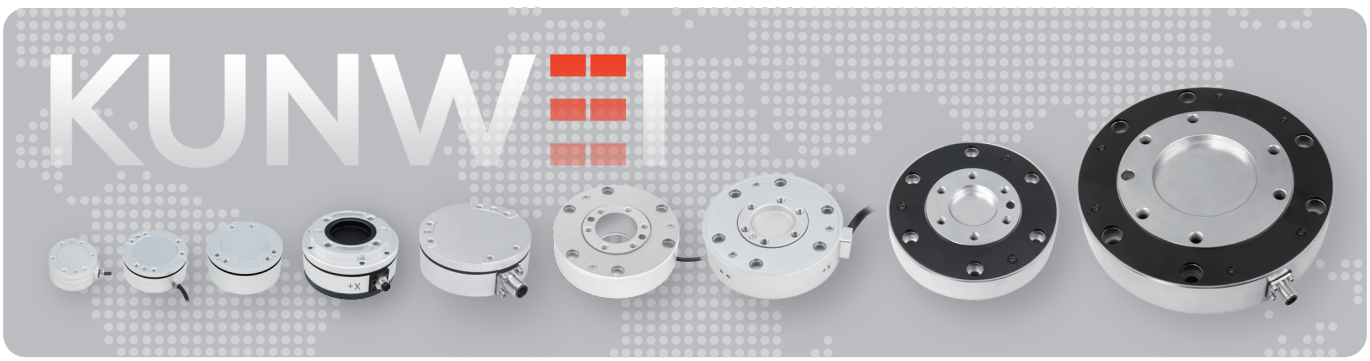
**20**
Engaged in research and application of multi axis force sensors for more than 20 years

**23+**
23 working procedures strictly controlled based on quality control requirements for aerospace grade products

**0.3**
Accuracy ( including crosstalk)
Better than 0.3%FS

Kunwei(Beijing) Technology Co.,Ltd. is a high-tech enterprise established in 2018, which focus on supplying the high precision force sensors(six axis force sensor) and force sensing system solution. We are specializing in the R&D, manufacturing, sales and technology promotion of intelligent force sensors, developing force sensors for the robot and other intelligent equipment industry, providing force measurement solutions and related products for the fields of embodied Al, robot, other intelligent equipment, industrial process monitoring, product quality inspection, scientific research testing and measurement and others.

Kunwei Technology was the main drafting committee, the national standard GB/T 43199-2023 'Test Specification for Robot Multi-axis Force/Torque Sensor' was officially implemented on April, 1, 2024.



# Honorary Certificate

KUNWEI

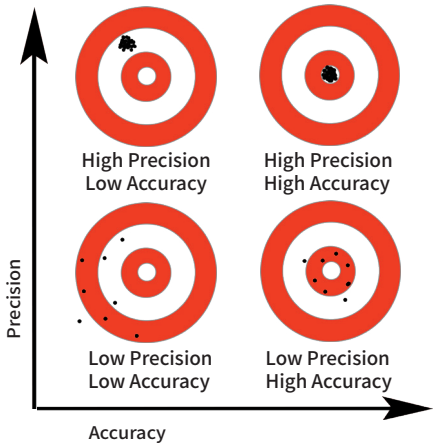
## RORE TECHNOLOGY

- Core Structure Optimizationorce
- Six-axis Joint Calibration
- High Precision Crosstalk Decoupling Algorithm
- High Precision Smart Embedded Digital Acauisition

## PERFORMANCE INDEX

**Precision** (repeatability)
The evaluation index of the consistency between multiple repeated measurements, that is the consistencyof the output results obtained when the sensor repeatedly measures a certain same loading group(thecombination of three direction force and three direction torque). Repeatability precision is the percentageof standard deviation of output error than rated output(%FS).

**Accuracy** (deviation)
The evaluation index of deviation between measured value and real value. Accuracy is the percentage of standarddeviation between output and theo-retical true value than rated output(%FS).




## INITIATIVE TEAM

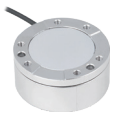
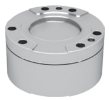
- ☑ All from National Aerospace Research Institute
- ☑ 20 Years Experience on the R&D of Multi-axis Force Sensor
- ☑ Mastered with Core Technology and Intellectual Property

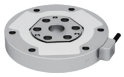

Developing the national recommended standard: GB/T 43199-2023 'Test Specification for Robot Multi-axis Force/Torque Sensor'

| | | | | | |
|---|---|---|---|---|---|
| Collaborative Robot Companies | 遨博智能 AUBO | JAKA 节卡 | HAN'S ROBOT 大族机器人 | DOBOT | ELITE ROBOT 艾利特机器人 |
| | 集萃智造 | realman 睿尔曼智能 | FAIRINO | AGILE ROBOTS | |
| Industrial Robot Companies | INOVANCE | ESTUN MEDICAL | SIASUN | ABB | |
| Humanoid Robot Companies | | 优必选 UBTECH | T5 ROBOT | 智元机器人 | CloudMinds |
| Medical Surgical Robot Companies | MicroPort 微创医疗 | AISONO 瀚维智能医疗集团 | 普爱医疗 PERLOVE MEDICAL | 朗合医疗 LungHealth MedTech | AMITMED |
| | ESTUN MEDICAL | SUSTAO | 鑫君特 FUTURTEC | Amit FILTER | Remebot |
| Well-known Companies | CASIC 航天科工 | 中国航天 | HUAWEI | Midea | 贝壳 找房大平台 |
| | 华大基因 BGI | GREE 格力 | BOSCH 博世 | BIEL 伯恩光学 | SANHUA |
| | | | | | ByteDance 字节跳动 |
| Automation Integ -ration Companies | HARMONTRONICS | SEER 仙工智能 | 佳安智能 KAANH | LENS 蓝思科技 | |
| | 耐视特 | 合动 HOPEMOTION | PnP | BOZHON 博众 | 右手科技 YSROB |
| Universities and Research Institutes | | | | | |
| | | | | | |

# 6 Axis Force Sensors Selection Manual

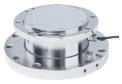
KUNWEI

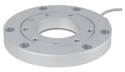
| Model | | Capacity(N,Nm) | | | | | | Dimension(mm) | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Fx | Fy | Fz | Mx | My | Mz | | |
|  | KWR36A | 30 | 30 | 30 | 1.5 | 1.5 | 1.5 | ϕ36xH21 | 0.04 |
| | KWR36B | 50 | 50 | 50 | 2 | 2 | 2 | ϕ36xH21 | 0.05 |
| | KWR36C | 80 | 80 | 80 | 3 | 3 | 3 | ϕ36xH21 | 0.06 |
| | KWR36G | 500 | 500 | 500 | 9 | 9 | 9 | ϕ36xH21 | 0.16 |
|  | KWR40A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ40xH20.4 | 0.05 |
| | KWR40B | 100 | 100 | 100 | 3 | 3 | 3 | ϕ40xH20.4 | 0.05 |
| | KWR40G | 300 | 300 | 300 | 5 | 5 | 5 | ϕ40xH20.4 | 0.20 |
|  | KWR46A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ46xH20.4 | 0.06 |
| | KWR46B | 150 | 150 | 150 | 5 | 5 | 5 | ϕ46xH20.4 | 0.07 |
| | KWR46C | 200 | 200 | 200 | 7 | 7 | 7 | ϕ46xH20.4 | 0.07 |
| | KWR46G | 500 | 500 | 500 | 16 | 16 | 16 | ϕ46xH20.4 | 0.21 |
|  | KWR52A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ52xH24 | 0.08 |
| | KWR52B | 200 | 200 | 200 | 8 | 8 | 8 | ϕ52xH24 | 0.08 |
| | KWR52G | 800 | 800 | 800 | 24 | 24 | 24 | ϕ52xH24 | 0.28 |
|  | KWR57A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ57xH30 | 0.12 |
| | KWR57B | 200 | 200 | 200 | 8 | 8 | 8 | ϕ57xH30 | 0.13 |
| | KWR57C | 350 | 350 | 350 | 10 | 10 | 10 | ϕ57xH30 | 0.14 |
| | KWR57D | 500 | 500 | 500 | 14 | 14 | 14 | ϕ57xH30 | 0.14 |
|  | KWR58A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ58xH30 | 0.14 |
| | KWR58B | 200 | 200 | 200 | 8 | 8 | 8 | ϕ58xH30 | 0.14 |
| | KWR58C | 400 | 400 | 400 | 10 | 10 | 10 | ϕ58xH30 | 0.14 |
| | KWR58G | 1500 | 1500 | 3000 | 90 | 90 | 90 | ϕ58xH30 | 0.40 |
|  | KWR60A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ60xH27.5 | 0.15 |
| | KWR60C | 100 | 100 | 200 | 5 | 5 | 5 | ϕ60xH27.5 | 0.15 |
| | KWR60D | 200 | 200 | 400 | 10 | 10 | 10 | ϕ60xH27.5 | 0.15 |
| | KWR60G | 800 | 800 | 800 | 32 | 32 | 32 | ϕ60xH27.5 | 0.45 |
|  | KWR63A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ63xH28 | 0.12 |
| | KWR63B | 100 | 100 | 100 | 4 | 4 | 4 | ϕ63xH28 | 0.14 |
| | KWR63C | 150 | 150 | 150 | 6 | 6 | 6 | ϕ63xH28 | 0.16 |
| | KWR63D | 200 | 200 | 200 | 8 | 8 | 8 | ϕ63xH28 | 0.18 |

| Model | | Capacity(N,Nm) | | | | | | Dimension(mm) | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Fx | Fy | Fz | Mx | My | Mz | | |
|  | KWR65C-ET | 150 | 150 | 300 | 12 | 12 | 12 | ϕ65xH10.6 | 0.08 |
| | KWR65K-ET | 500 | 500 | 1000 | 150 | 150 | 150 | ϕ65xH10.6 | 0.19 |
| | KWR65G-ET | 2500 | 2500 | 5000 | 200 | 200 | 100 | ϕ65xH10.6 | 0.19 |
|  | KWR70B | 300 | 300 | 500 | 12 | 12 | 12 | ϕ70xH38 | 0.23 |
| | KWR70G | 500 | 500 | 1500 | 40 | 40 | 40 | ϕ70xH38 | 0.71 |
|  | KWR75A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ75xH31.5 | 0.26 |
| | KWR75B | 200 | 200 | 200 | 8 | 8 | 8 | ϕ75xH31.5 | 0.28 |
| | KWR75C | 400 | 400 | 500 | 12 | 12 | 12 | ϕ75xH33.5 | 0.32 |
| | KWR75D | 500 | 500 | 700 | 18 | 18 | 18 | ϕ75xH33.5 | 0.36 |
| | KWR75E | 30 | 30 | 30 | 1.5 | 1.5 | 1.5 | ϕ75xH31.5 | 0.26 |
| | KWR75F | 100 | 100 | 100 | 4 | 4 | 4 | ϕ75xH31.5 | 0.28 |
| | KWR75G | 800 | 800 | 1000 | 36 | 36 | 36 | ϕ75xH33.5 | 1.10 |
| | KWR75K | 1800 | 1800 | 3000 | 45 | 45 | 45 | ϕ75xH33.5 | 1.12 |
|  | KWR75BH | 200 | 200 | 200 | 8 | 8 | 8 | ϕ75xH31.5 | 0.28 |
| | KWR75CH | 400 | 400 | 500 | 12 | 12 | 12 | ϕ75xH33.5 | 0.32 |
|  | KWR75BEC | 200 | 200 | 200 | 8 | 8 | 8 | ϕ75xH47.5 | 0.38 |
| | KWR75CEC | 400 | 400 | 500 | 12 | 12 | 12 | ϕ75xH47.5 | 0.42 |
| | KWR75DEC | 500 | 500 | 700 | 18 | 18 | 18 | ϕ75xH47.5 | 0.42 |
| | KWR75FEC | 100 | 100 | 100 | 4 | 4 | 4 | ϕ75xH47.5 | 0.38 |
| | KWR75GEC | 800 | 800 | 1000 | 36 | 36 | 36 | ϕ75xH47.5 | 1.32 |
|  | KWR77B | 200 | 200 | 200 | 16 | 16 | 16 | ϕ77xH44 | 0.35 |
| | KWR77C | 400 | 400 | 500 | 20 | 20 | 20 | ϕ77xH44 | 0.36 |
|  | KWR79B | 200 | 200 | 200 | 8 | 8 | 8 | ϕ79xH25 | 0.19 |
| | KWR79C | 400 | 400 | 500 | 12 | 12 | 12 | ϕ79xH25 | 0.19 |
| | KWR79F | 100 | 100 | 100 | 4 | 4 | 4 | ϕ79xH25 | 0.19 |
|  | KWR82A | 50 | 50 | 50 | 2 | 2 | 2 | ϕ82xH29.5 | 0.26 |
| | KWR82B | 200 | 200 | 200 | 8 | 8 | 8 | ϕ82xH29.5 | 0.28 |
| | KWR82C | 400 | 400 | 500 | 12 | 12 | 12 | ϕ82xH29.5 | 0.32 |
| | KWR82D | 500 | 500 | 700 | 18 | 18 | 18 | ϕ82xH29.5 | 0.36 |

# 6 Axis Force Sensors Selection Manual

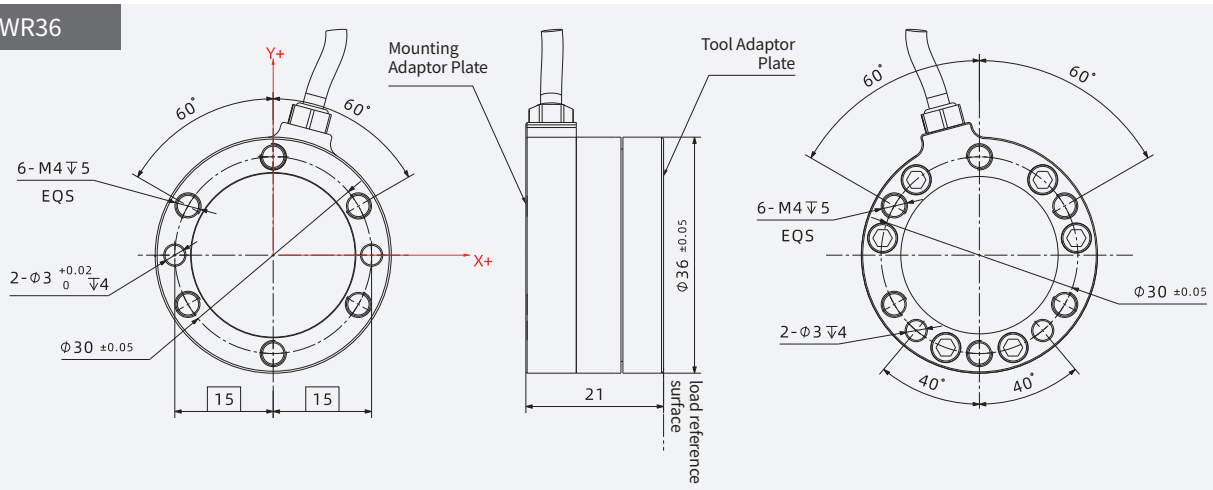
KUNWEI

| Model | | Capacity(N,Nm) | | | | | | Dimension(mm) | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Fx | Fy | Fz | Mx | My | Mz | | |
|  | KWR82AEC | 50 | 50 | 50 | 2 | 2 | 2 | ϕ82xH39.5 | 0.38 |
| | KWR82BEC | 200 | 200 | 200 | 8 | 8 | 8 | ϕ82xH39.5 | 0.39 |
| | KWR82CEC | 400 | 400 | 500 | 12 | 12 | 12 | ϕ82xH39.5 | 0.41 |
| | KWR82DEC | 500 | 500 | 700 | 18 | 18 | 18 | ϕ82xH39.5 | 0.41 |
| | KWR82FEC | 100 | 100 | 100 | 4 | 4 | 4 | ϕ82xH39.5 | 0.39 |
|  | KWR90A | 100 | 100 | 200 | 10 | 10 | 10 | ϕ90xH24 | 0.34 |
| | KWR90B | 200 | 200 | 400 | 18 | 18 | 18 | ϕ90xH24 | 0.34 |
| | KWR90C | 400 | 400 | 800 | 36 | 36 | 36 | ϕ90xH24 | 0.34 |
|  | KWR96A | 100 | 100 | 200 | 10 | 10 | 10 | ϕ96xH26 | 0.32 |
| | KWR96B | 200 | 200 | 400 | 18 | 18 | 18 | ϕ96xH26 | 0.32 |
| | KWR96C | 300 | 300 | 600 | 24 | 24 | 24 | ϕ96xH26 | 0.36 |
| | KWR96D | 400 | 400 | 800 | 36 | 36 | 36 | ϕ96xH26 | 0.36 |
| | KWR96E | 2000 | 2000 | 2000 | 100 | 100 | 100 | ϕ96xH26 | 1.60 |
| | KWR96F | 3000 | 3000 | 4000 | 120 | 120 | 120 | ϕ96xH26 | 1.65 |
|  | KWR100A | 100 | 100 | 200 | 10 | 10 | 10 | ϕ100xH26 | 0.32 |
| | KWR100B | 200 | 200 | 400 | 18 | 18 | 18 | ϕ100xH26 | 0.32 |
| | KWR100C | 300 | 300 | 600 | 24 | 24 | 24 | ϕ100xH26 | 0.36 |
| | KWR100D | 400 | 400 | 800 | 36 | 36 | 36 | ϕ100xH26 | 0.36 |
|  | KWR110A | 600 | 600 | 600 | 80 | 80 | 80 | ϕ110xH26 | 1.30 |
| | KWR110B | 800 | 800 | 800 | 100 | 100 | 100 | ϕ110xH26 | 1.30 |
| | KWR110C | 1200 | 1200 | 1200 | 150 | 150 | 150 | ϕ110xH26 | 1.30 |
|  | KWR116A | 500 | 500 | 500 | 60 | 60 | 60 | ϕ116xH26 | 1.40 |
| | KWR116B | 1000 | 1000 | 1000 | 100 | 100 | 100 | ϕ116xH26 | 1.40 |
| | KWR116C | 1400 | 1400 | 1400 | 120 | 120 | 120 | ϕ116xH26 | 1.40 |
|  | KWR140A | 800 | 800 | 800 | 60 | 60 | 60 | ϕ140xH52 | 2.60 |
| | KWR140B | 1500 | 1500 | 1500 | 100 | 100 | 100 | ϕ140xH52 | 2.60 |
| | KWR140C | 2000 | 2000 | 2000 | 200 | 200 | 200 | ϕ140xH52 | 2.60 |
|  | KWR150A | 800 | 800 | 1200 | 100 | 100 | 100 | ϕ150xH35 | 1.00 |
| | KWR150B | 1500 | 1500 | 2400 | 200 | 200 | 200 | ϕ150xH35 | 2.80 |
| | KWR150C | 2500 | 2500 | 4500 | 400 | 400 | 400 | ϕ150xH35 | 3.00 |

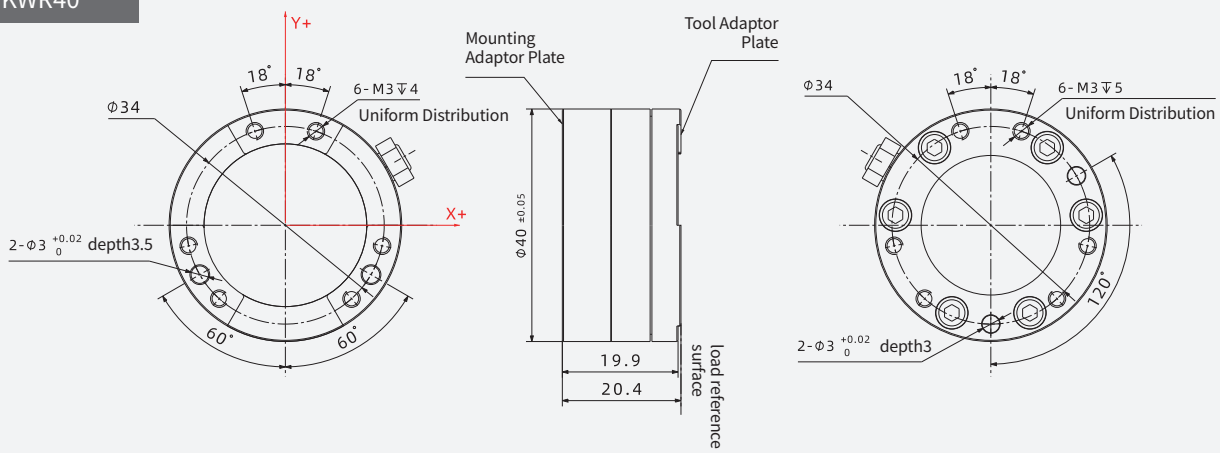
| Model | | Capacity(N,Nm) | | | | | | Dimension(mm) | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Fx | Fy | Fz | Mx | My | Mz | | |
|  | KWR168B | 3000 | 3000 | 3000 | 400 | 400 | 400 | ϕ168xH38 | 4.40 |
| | KWR168C | 4000 | 4000 | 4000 | 600 | 600 | 600 | ϕ168xH38 | 4.40 |
| | KWR168D | 6000 | 6000 | 6000 | 800 | 800 | 800 | ϕ168xH38 | 4.50 |
| | KWR168E | 8000 | 8000 | 8000 | 1200 | 1200 | 1200 | ϕ168xH38 | 4.50 |
|  | KWR180BH | 6000 | 6000 | 6000 | 500 | 500 | 500 | ϕ180xH30 | 4.50 |
| | KWR180CH | 10000 | 10000 | 10000 | 800 | 800 | 800 | ϕ180xH30 | 4.50 |
| | KWR180DH | 15000 | 15000 | 15000 | 1000 | 1000 | 1000 | ϕ180xH30 | 4.50 |
|  | KWR200BH | 400 | 400 | 400 | 20 | 20 | 20 | ϕ200xH25.5 | 2.50 |
| | KWR200CH | 600 | 600 | 600 | 36 | 36 | 36 | ϕ200xH25.5 | 2.50 |
| | KWR200XH | 1000 | 1000 | 1000 | 150 | 150 | 150 | ϕ200xH25.5 | 4.30 |
|  | KWR200X | 1000 | 1000 | 1000 | 150 | 150 | 150 | ϕ200xH40 | 4.50 |
| | KWR200M | 1800 | 1800 | 1800 | 300 | 300 | 300 | ϕ200xH40 | 4.80 |
| | KWR200C | 3000 | 3000 | 3000 | 450 | 450 | 450 | ϕ200xH40 | 4.80 |
| | KWR200D | 10000 | 10000 | 10000 | 800 | 800 | 1600 | ϕ200xH40 | 4.80 |
| | KWR200E | 8000 | 8000 | 8000 | 1500 | 1500 | 1500 | ϕ200xH40 | 5.10 |
| | KWR200G | 5000 | 5000 | 5000 | 750 | 750 | 750 | ϕ200xH40 | 5.10 |
| | KWR200F | 3200 | 3200 | 6000 | 800 | 800 | 800 | ϕ200xH40 | 5.10 |
| | KWR200J | 6000 | 6000 | 6000 | 700 | 700 | 700 | ϕ200xH55.5 | 6.00 |

*The material of Aluminum Alloy, stainless steel,titanium alloy will be considered based on capacity design and other factors for different products.
Please feel free to communicate with sales engineers to gain a deeper understanding of product information.
*The external signal acquisition modules design will be considered based on dimensions design and other factors for different products.
Please feel free to communicate with sales engineers to gain a deeper understanding of product information.

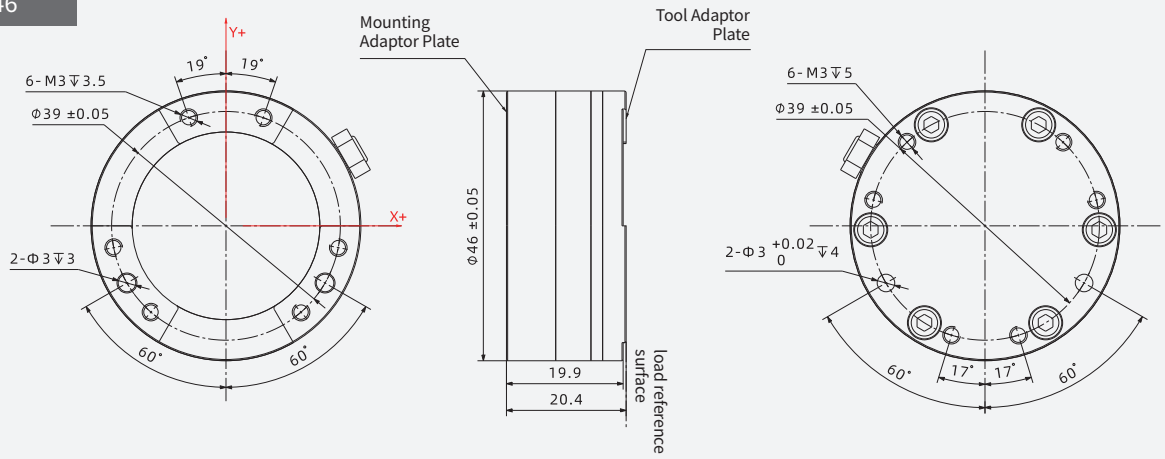
KWR36



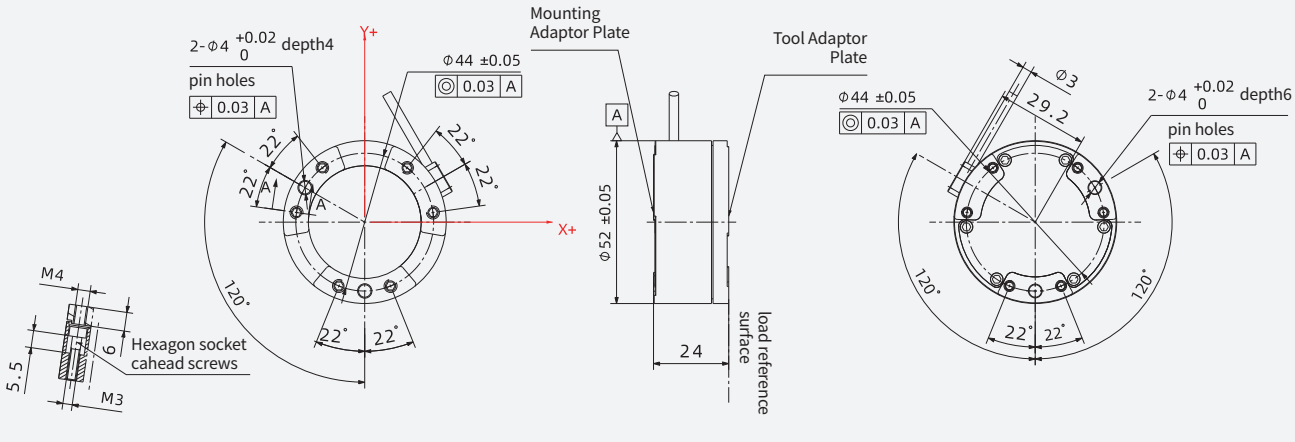
## KWR40



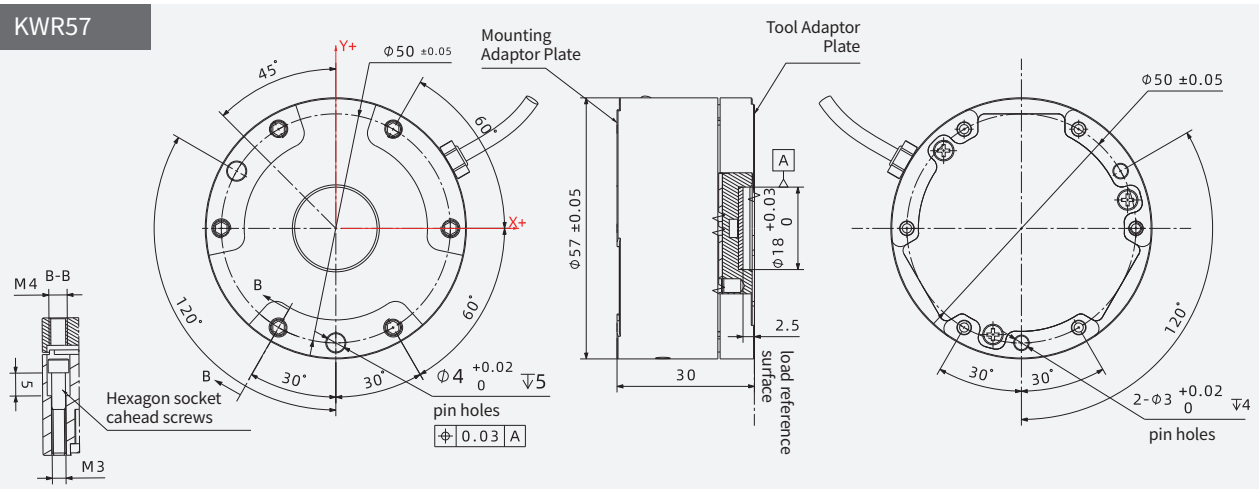

## KWR46



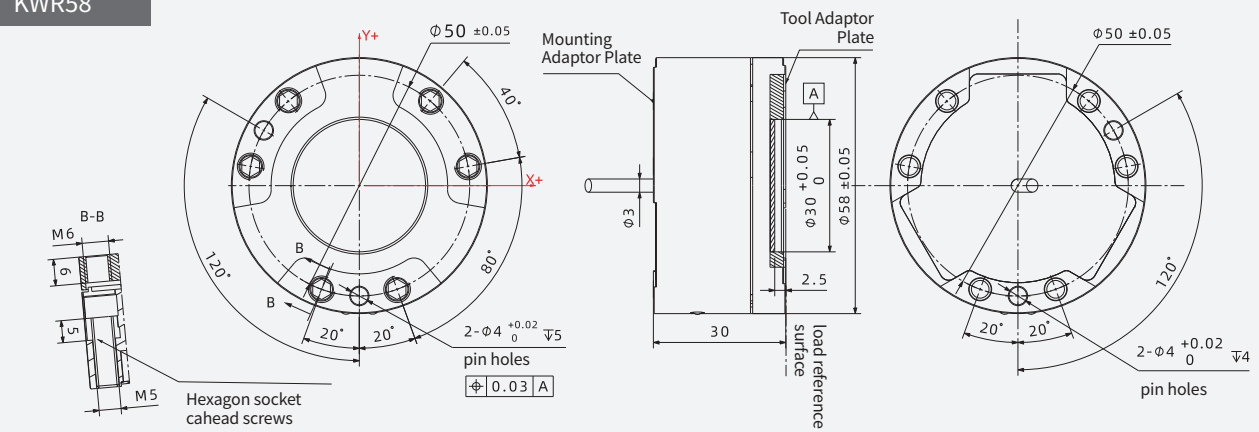

## KWR52



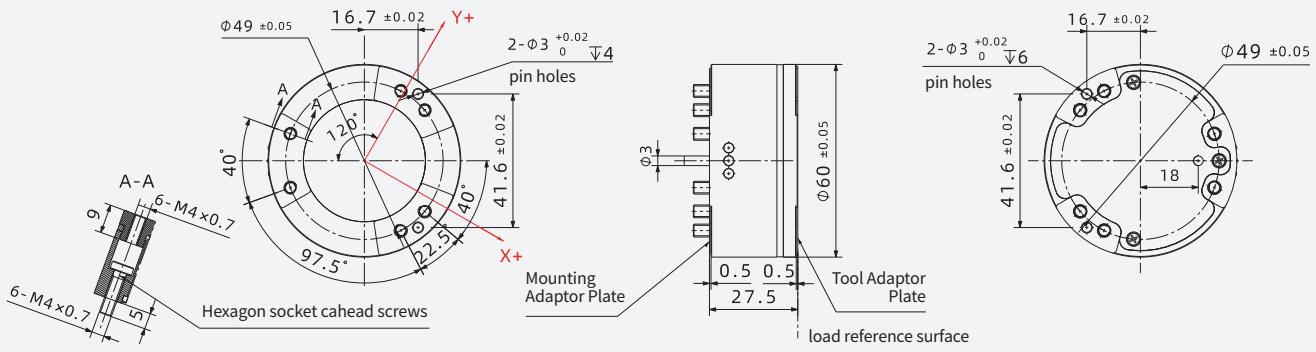
## KWR57



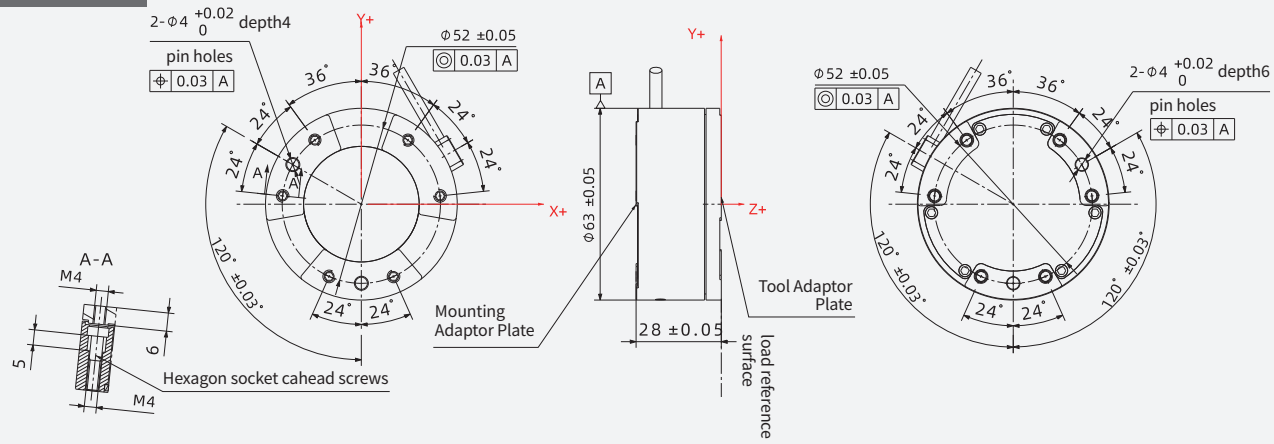

## KWR58



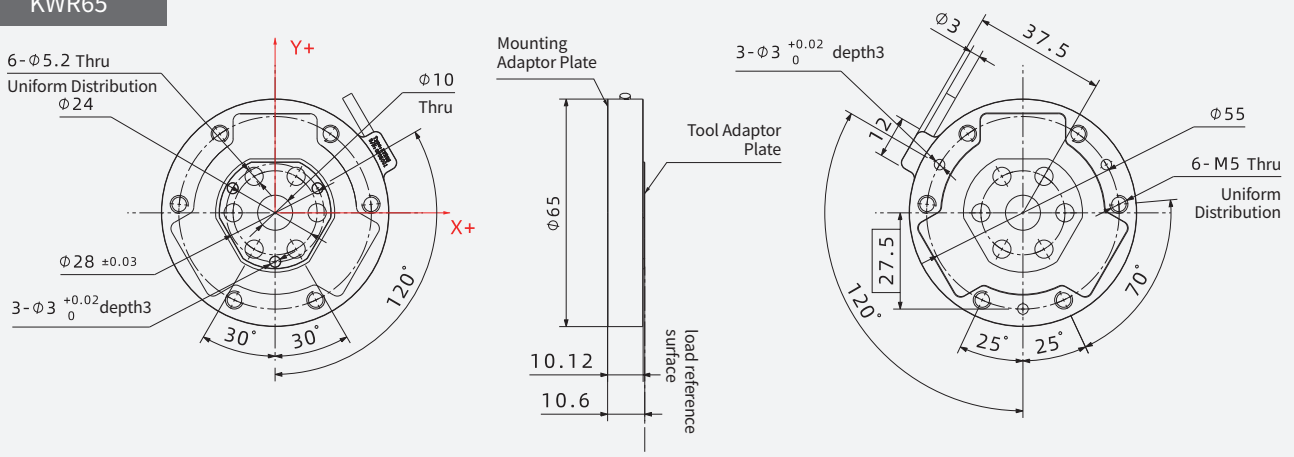

## KWR60



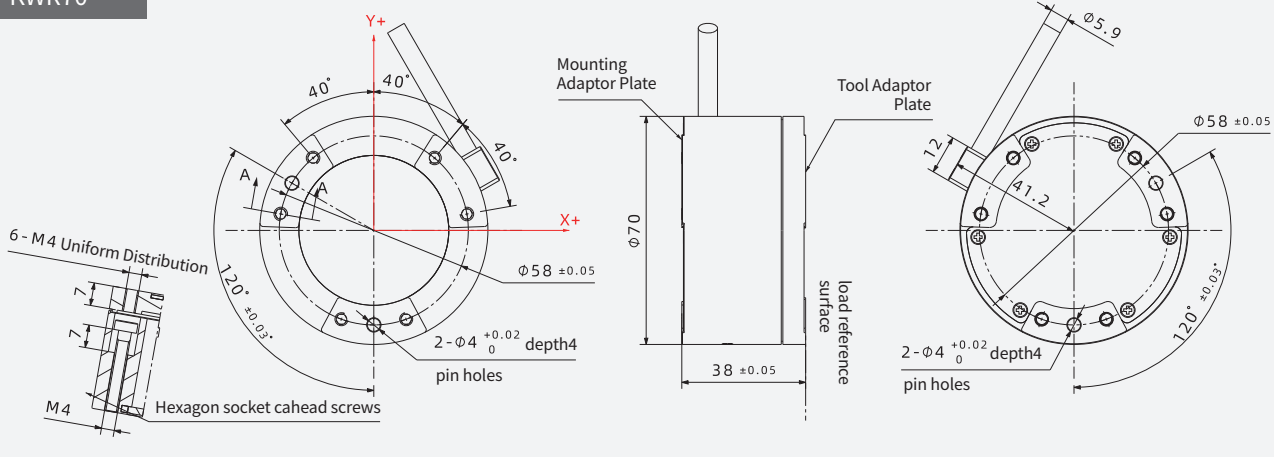
## KWR63



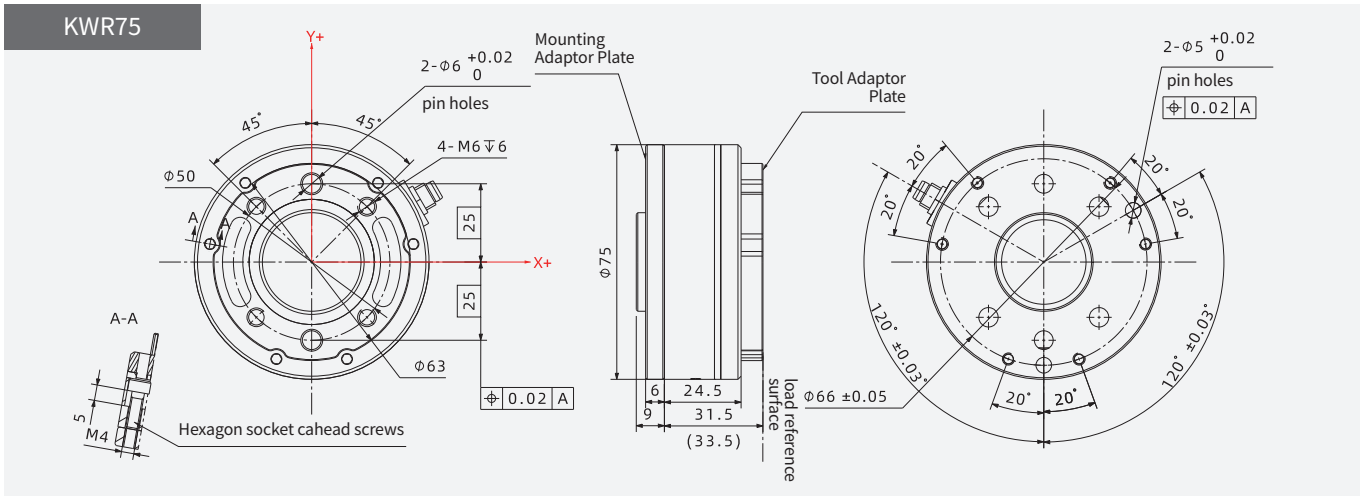

## KWR65



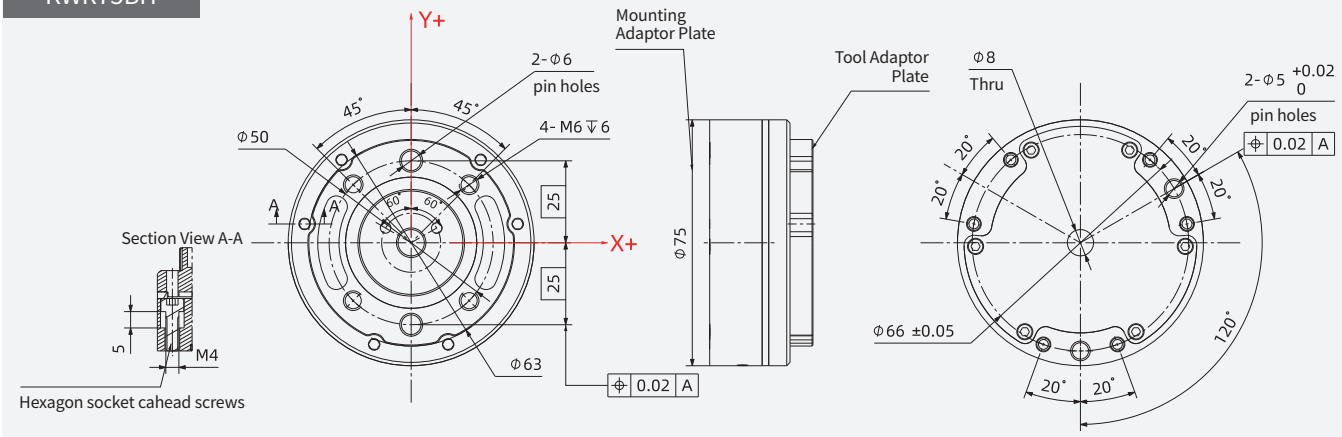

## KWR70



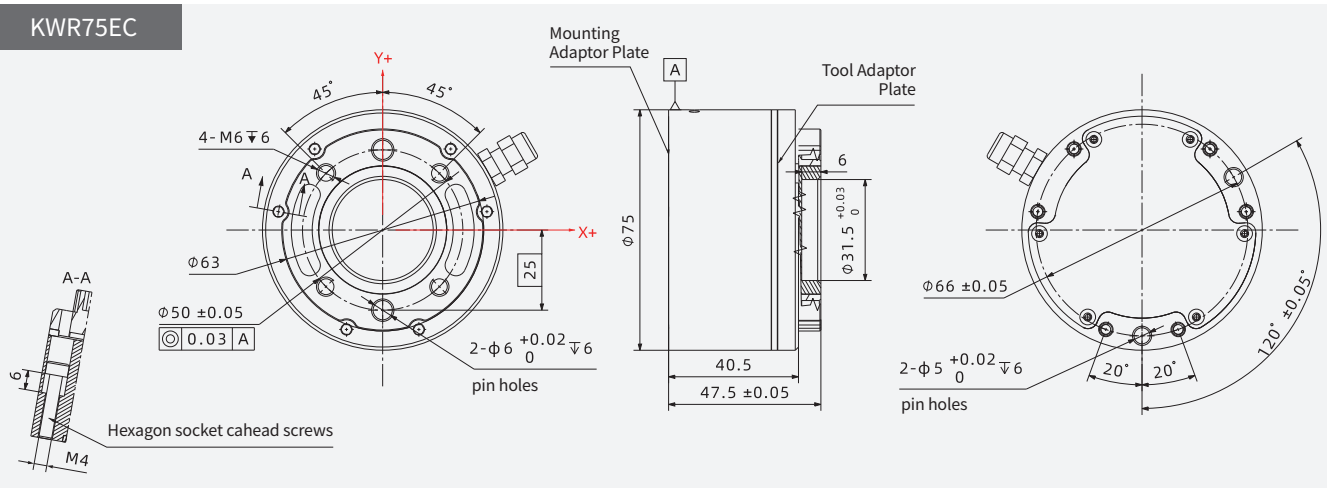
## KWR75



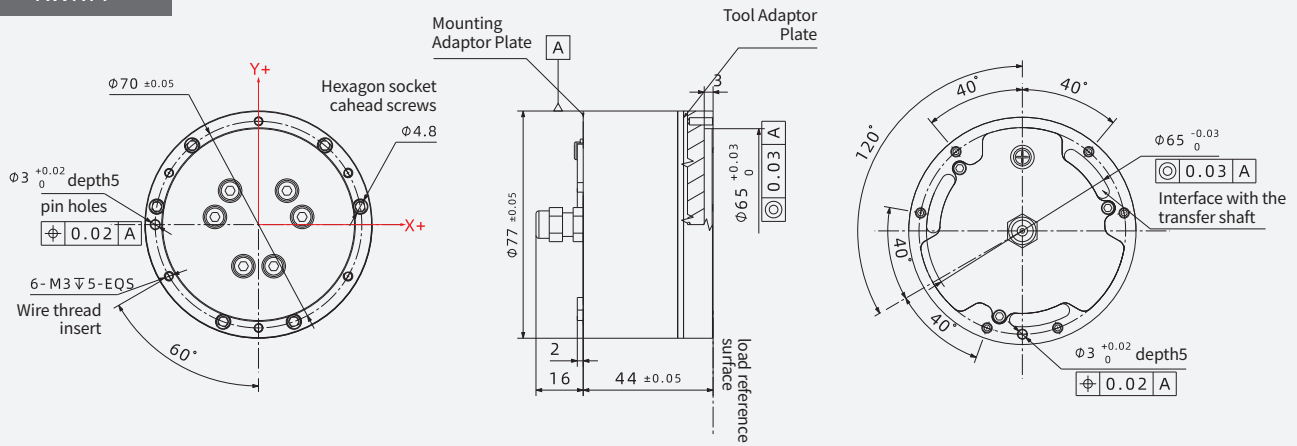

## KWR75BH



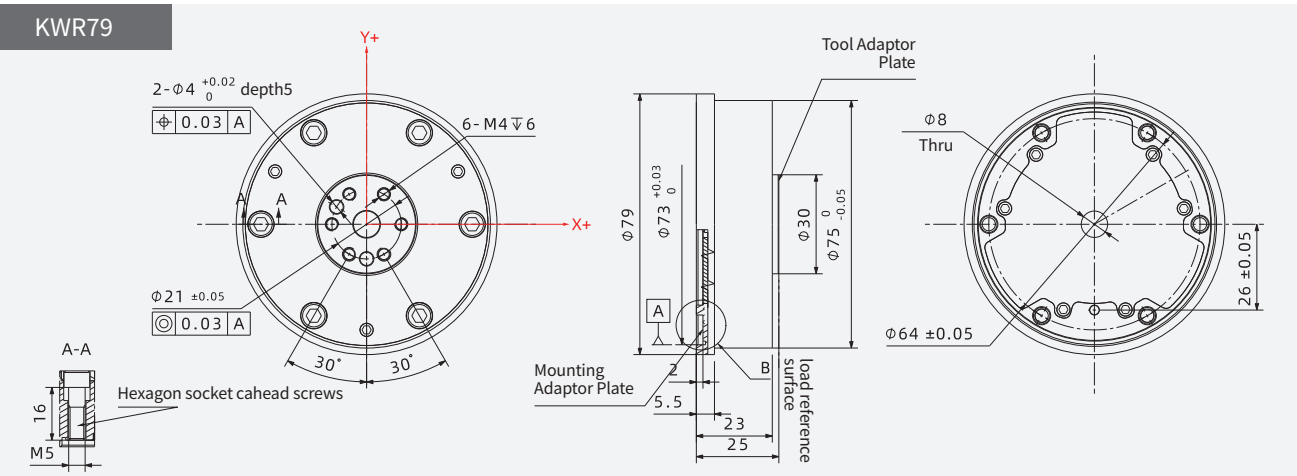

## KWR75EC



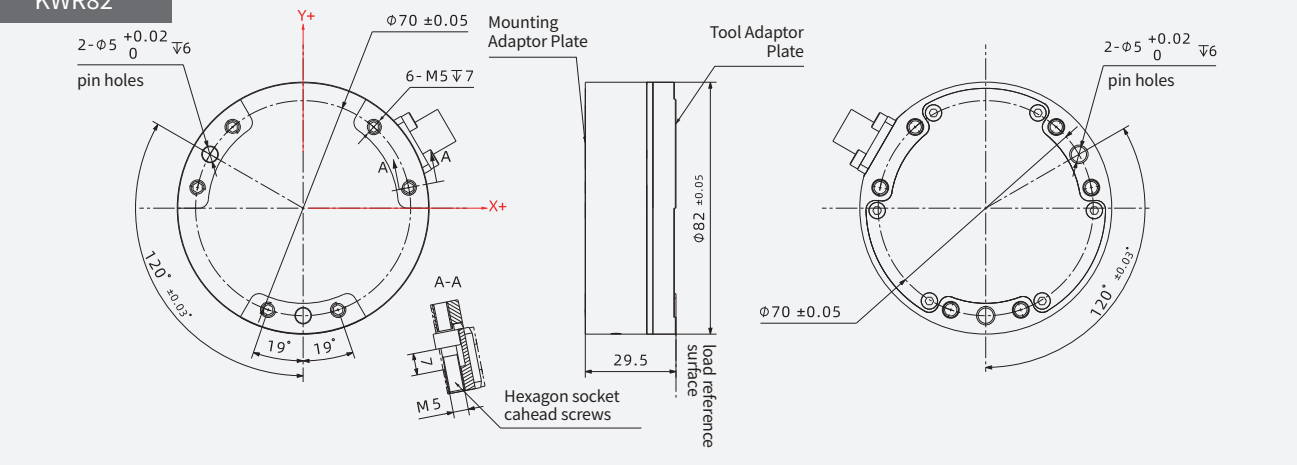
## KWR77



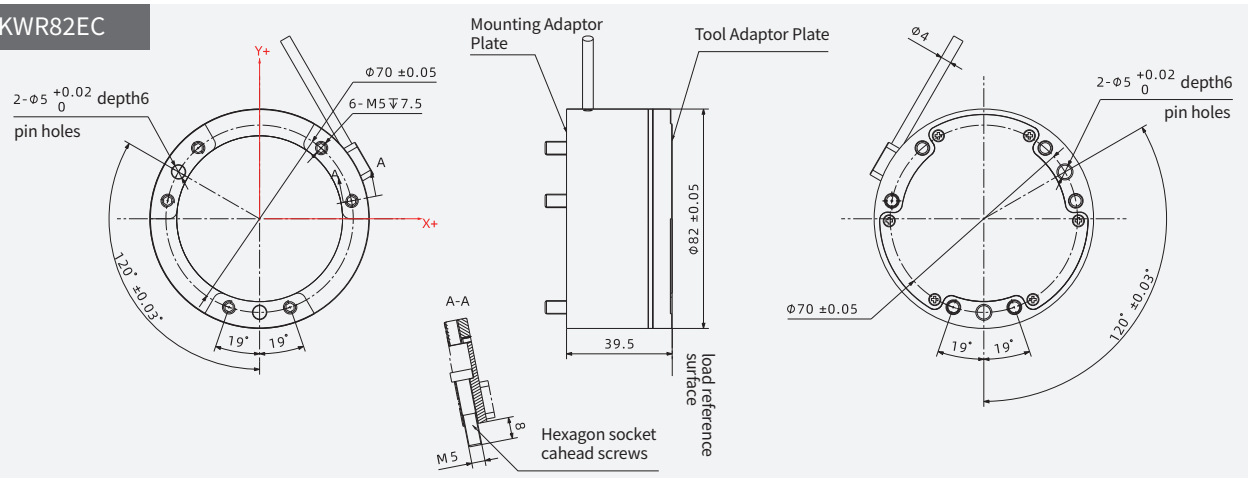

## KWR79



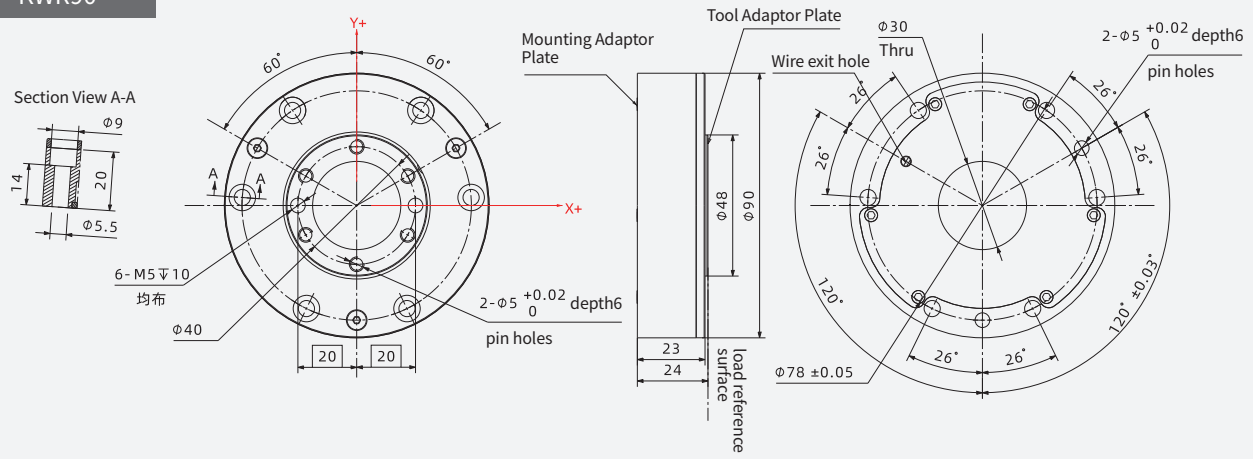

## KWR82



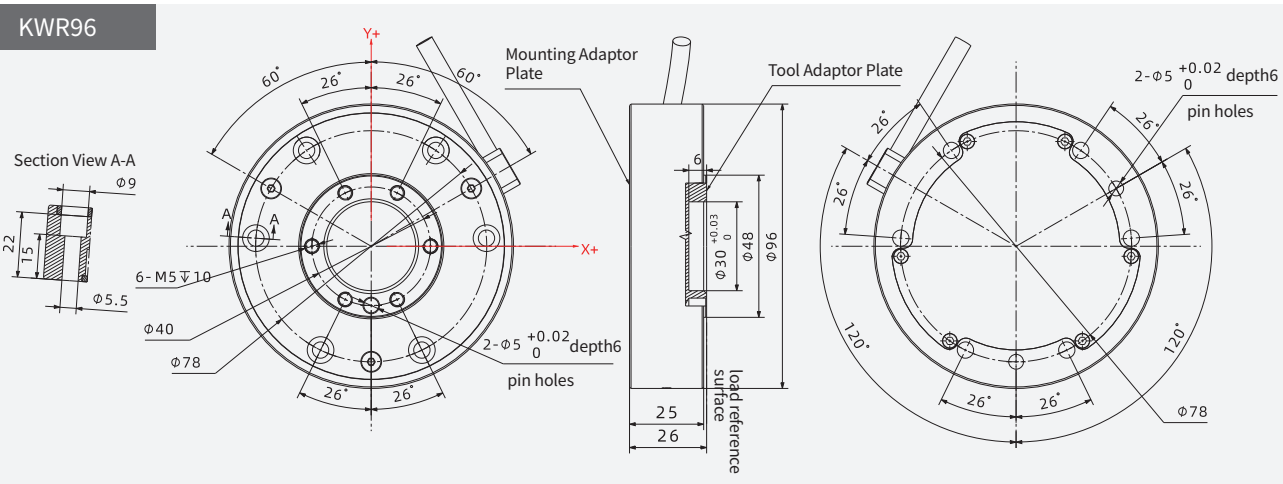
## KWR82EC



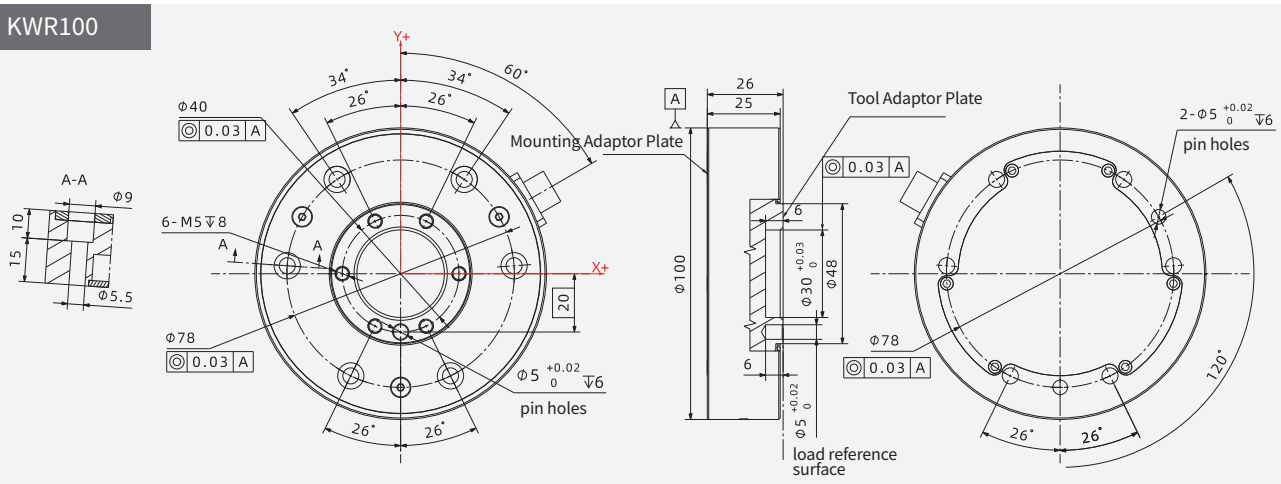

## KWR90



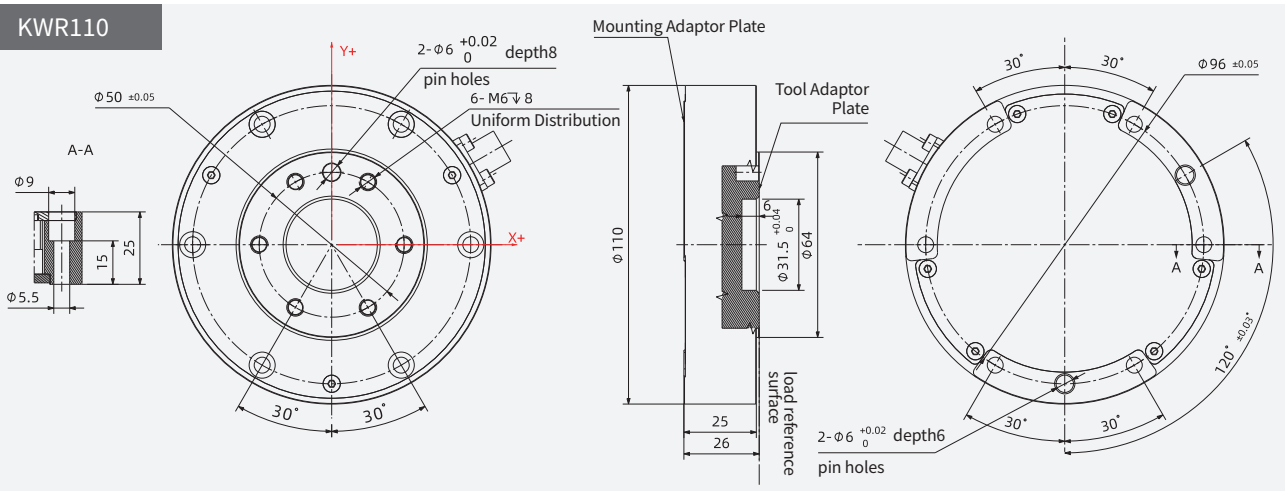

## KWR96



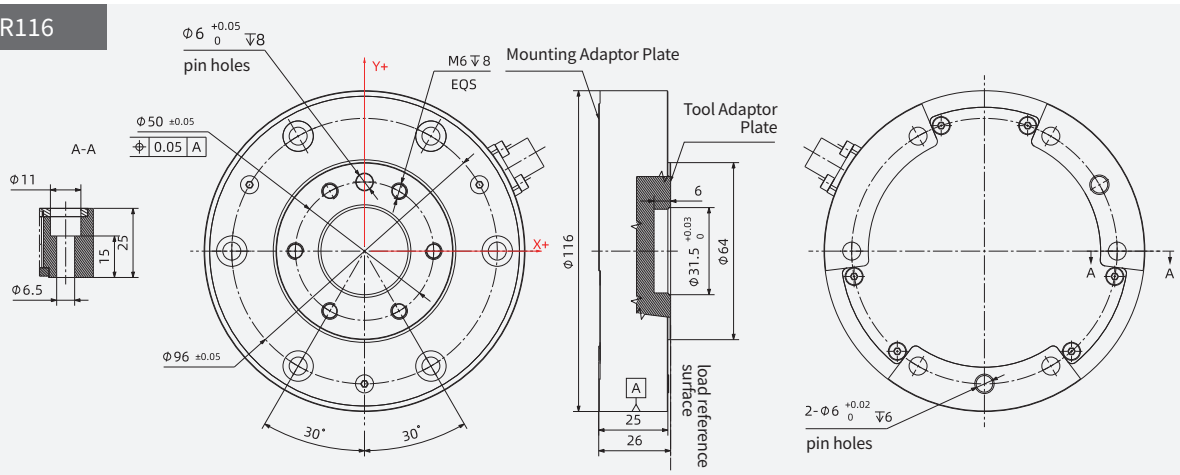
## KWR100



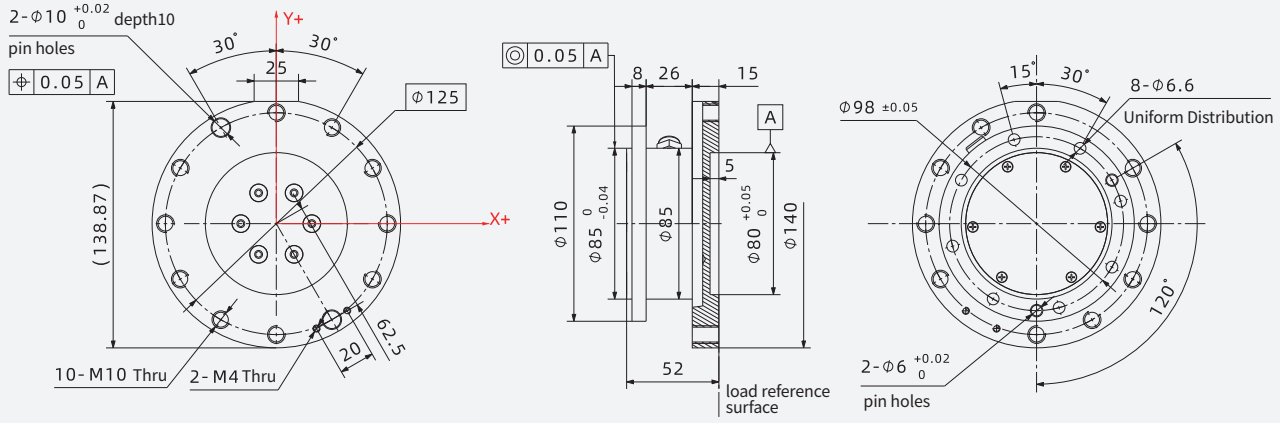

## KWR110



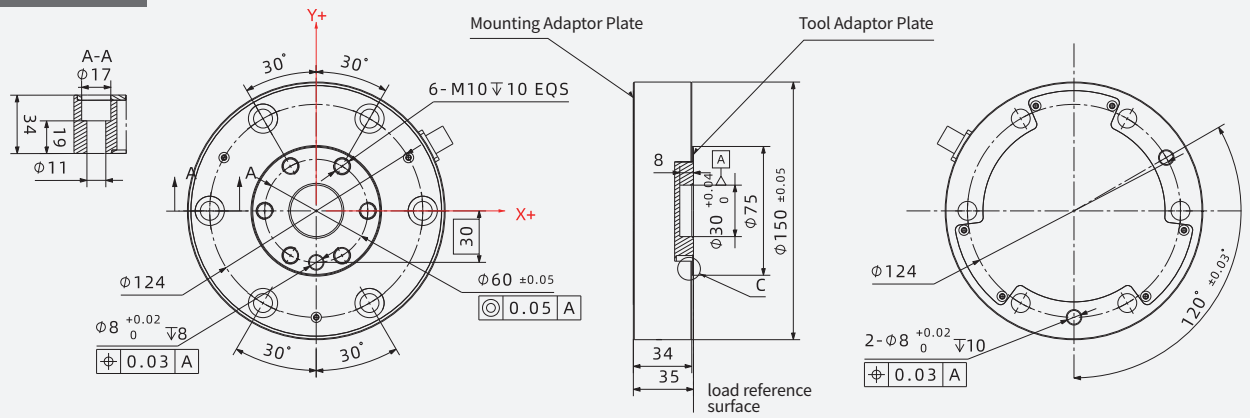

## KWR116



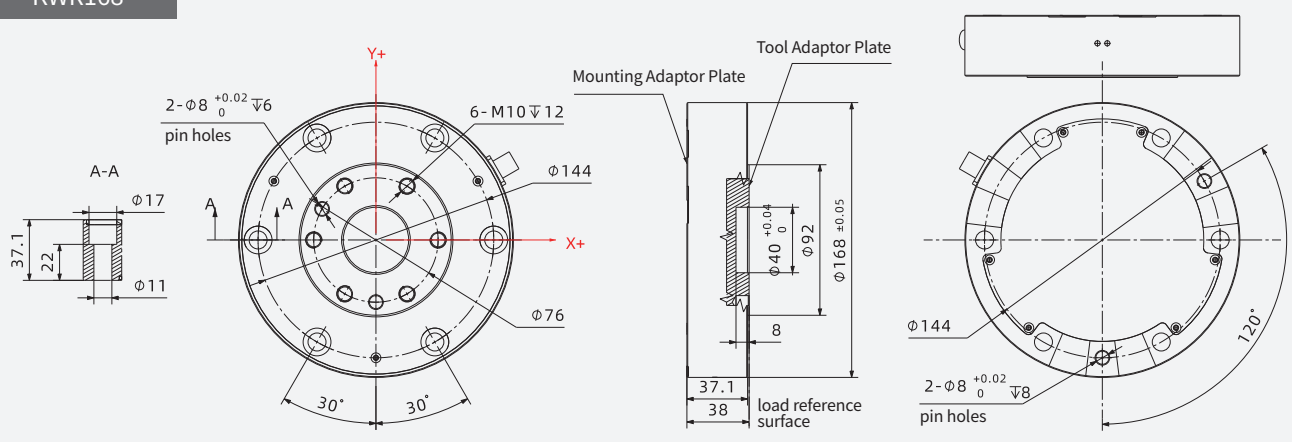
## KWR140



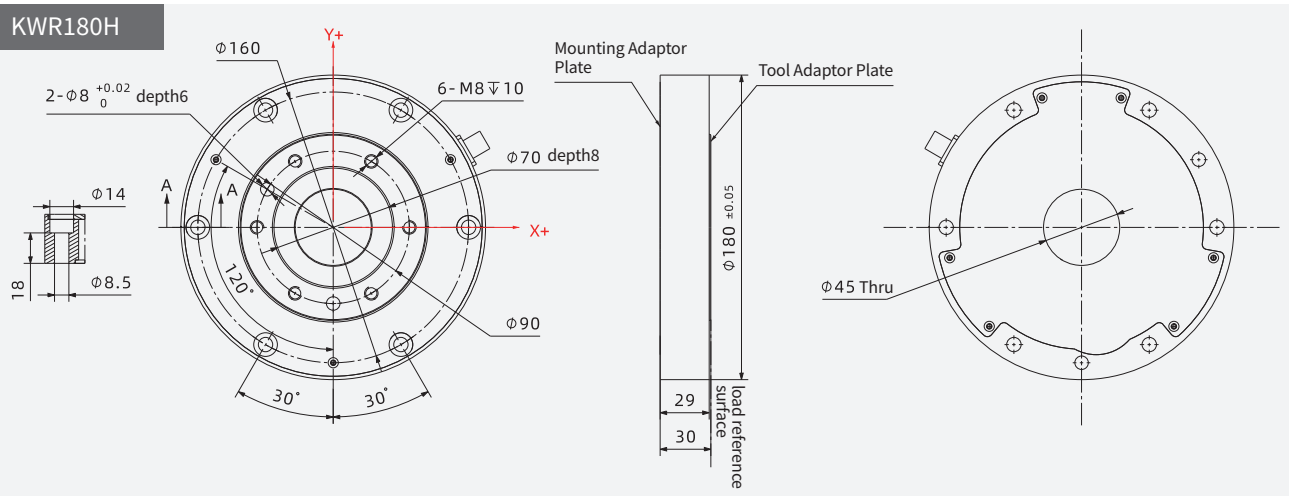

## KWR150



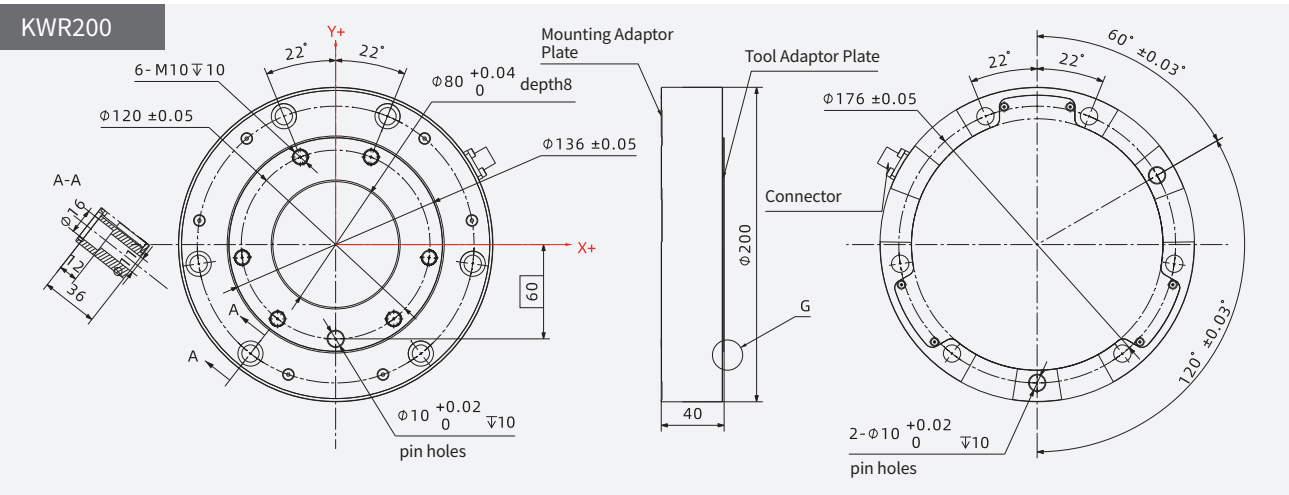

## KWR168



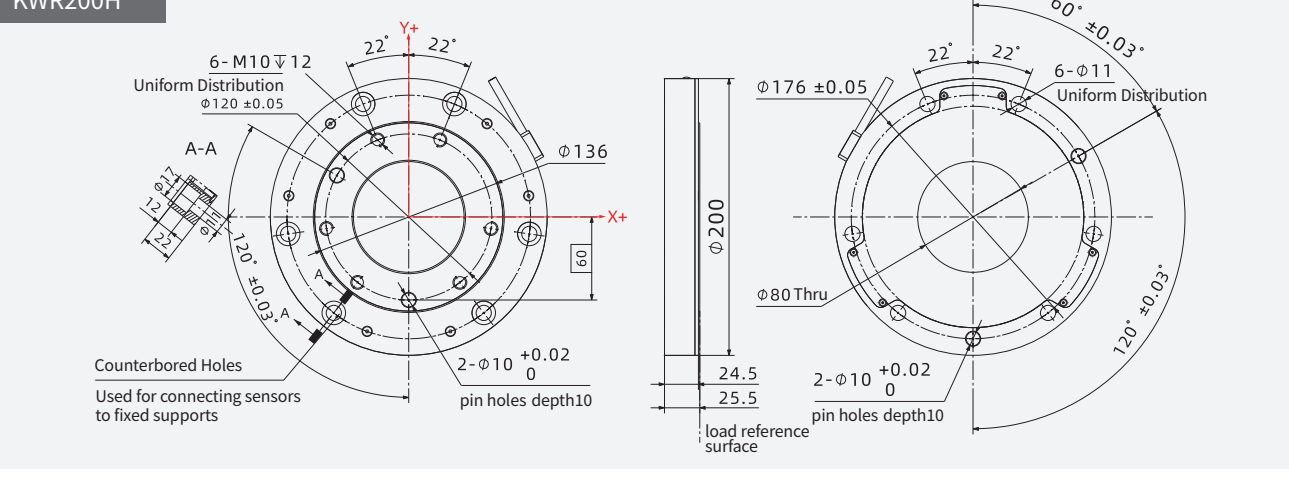
## KWR180H




## KWR200

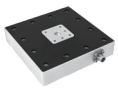
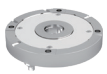
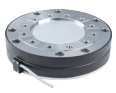



## KWR200H



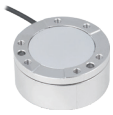
# Customized Multi Axis Force Sensors

KUNWEI

| Model | | Capacity(N,Nm) | | | | | | Dimension(mm) | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Fx | Fy | Fz | Mx | My | Mz | | |
|  | KWP6L212A | 50 | 50 | 50 | 6 | 6 | 6 | 212x120x28.5 | 1.20 |
| | KWP6L212B | 100 | 100 | 150 | 20 | 30 | 20 | 212x120x28.5 | 1.20 |
|  | KWP6L220A | 300 | 300 | 500 | 10 | 10 | 10 | 220x180x58 | 3.30 |
| | KWP6L220B | 500 | 500 | 800 | 18 | 18 | 18 | 220x180x58 | 3.30 |
|  | KWP6L180A | 30 | 30 | 50 | 6 | 6 | 6 | 180x120x24 | 1.00 |
|  | KWP6L150B | 500 | 500 | 500 | 36 | 36 | 36 | 150x150x30 | 1.30 |
|  | KWT6D600-3K | 3000 | 3000 | 3000 | 3000 | 3000 | 1500 | ϕ600xH140 | 48.00 |
|  | KWP6L800 | 400 | 400 | 2000 | 400 | 400 | 200 | 900x700x108.4 | 63.00 |
|  | KWP6L450 | 400 | 400 | 2000 | 200 | 200 | 80 | 450x450x90 | 24.00 |
|  | KWT2D177 | 2000LBS | 1000LBS | / | / | / | / | ϕ177.8xH27 | 2.90 |
|  | KWT2D228 | 8000LBS | 2000LBS | / | / | / | / | ϕ228.6xH40 | 8.00 |
|  | KWT2D140-1K | 1000 | 1000 | / | / | / | / | ϕ140xH16 | 1.10 |
|  | KWT3D240-6K | 6000 | 6000 | 18000 | / | / | / | ϕ240xH54 | 9.00 |

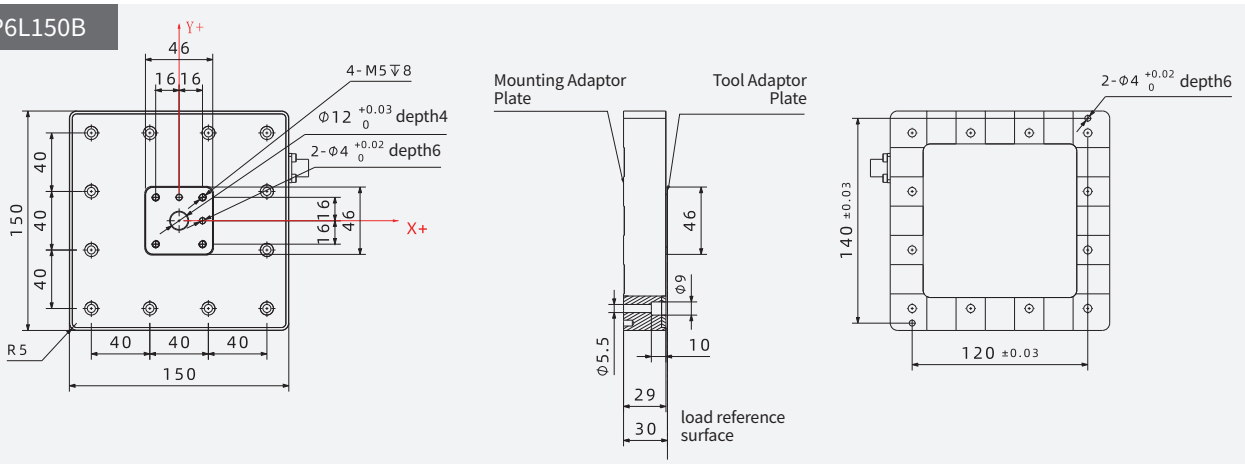
# Customized Multi Axis Force Sensors

KUNWEI

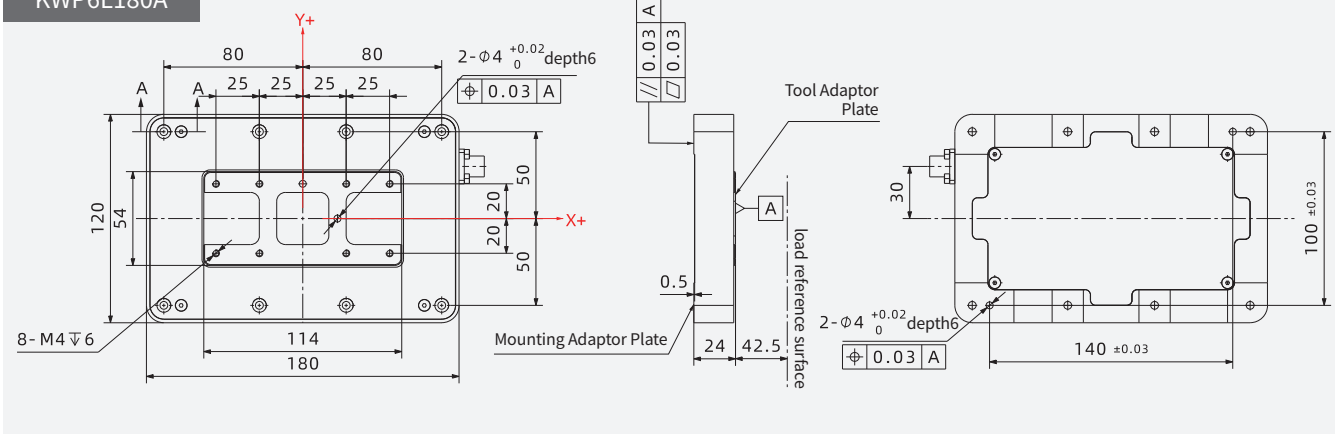
| | Model | Capacity(N,Nm) | | | | | | Dimension(mm) | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Fx | Fy | Fz | Mx | My | Mz | | |
|  | KWT3D80A | 300 | 300 | 500 | / | / | / | ϕ80xH69 | 0.60 |
| | KWT3D80D | 45000 | 45000 | 50000 | / | / | / | ϕ80xH69 | 1.40 |
|  | KWT3D92A | 1500 | 1500 | 15000 | / | / | / | ϕ92xH62 | 2.00 |
| | KWT3D92B | 5000 | 5000 | 20000 | / | / | / | ϕ92xH62 | 2.00 |
| | KWT3D92C | 10000 | 10000 | 40000 | / | / | / | ϕ92xH62 | 2.00 |
|  | KWR57B-3D | 200 | 200 | 200 | / | / | / | ϕ57xH56 | 0.19 |
| | KWR57F-3D | 100 | 100 | 100 | / | / | / | ϕ57xH56 | 0.19 |

*The material of Aluminum Alloy, stainless steel,titanium alloy will be considered based on capacity design and other factors for different products.
Please feel free to communicate with sales engineers to gain a deeper understanding of product information.
*The external signal acquisition modules design will be considered based on dimensions design and other factors for different products.
Please feel free to communicate with sales engineers to gain a deeper understanding of product information.

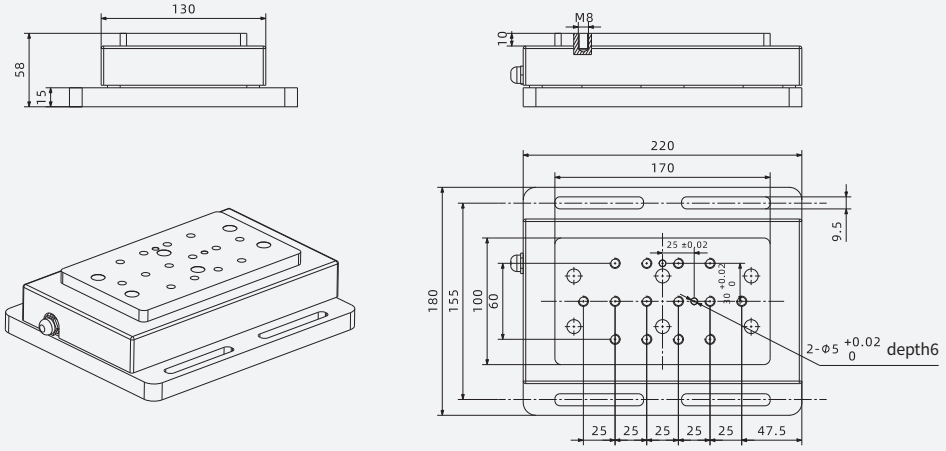
## KWP6L150B



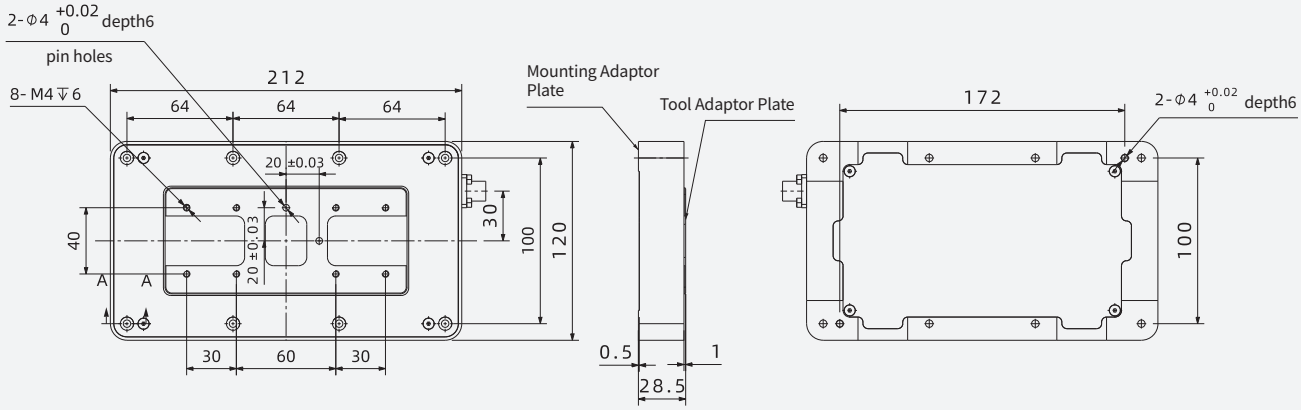

## KWP6L180A



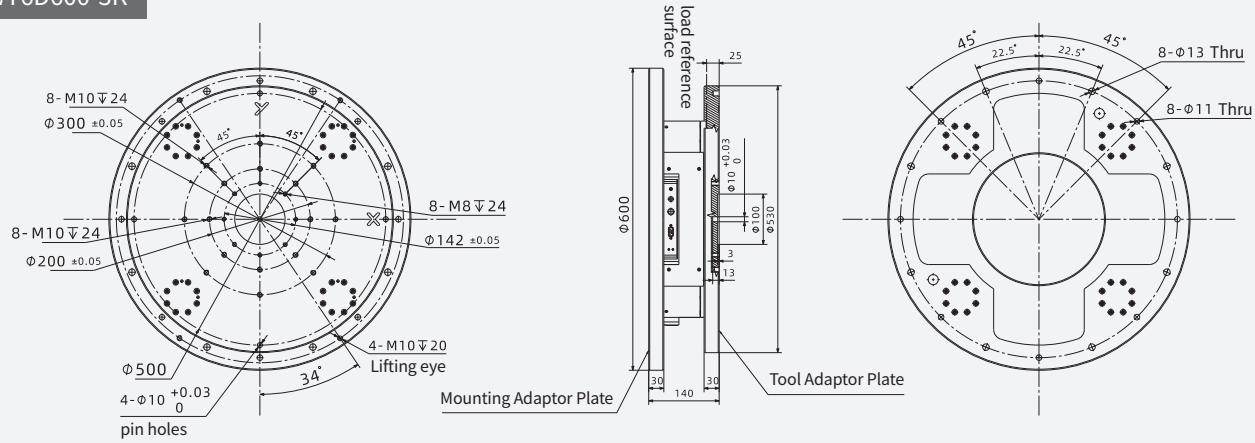
## KWP6L220



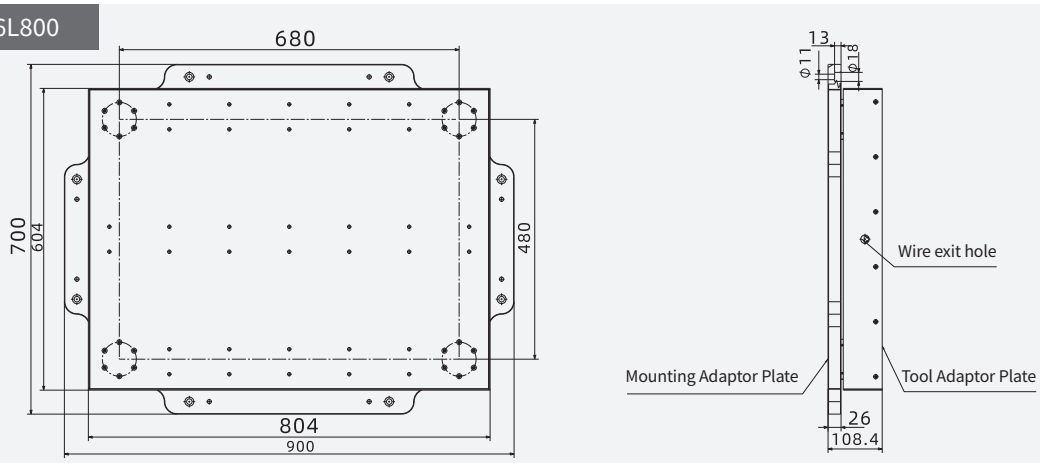

## KWP6L212



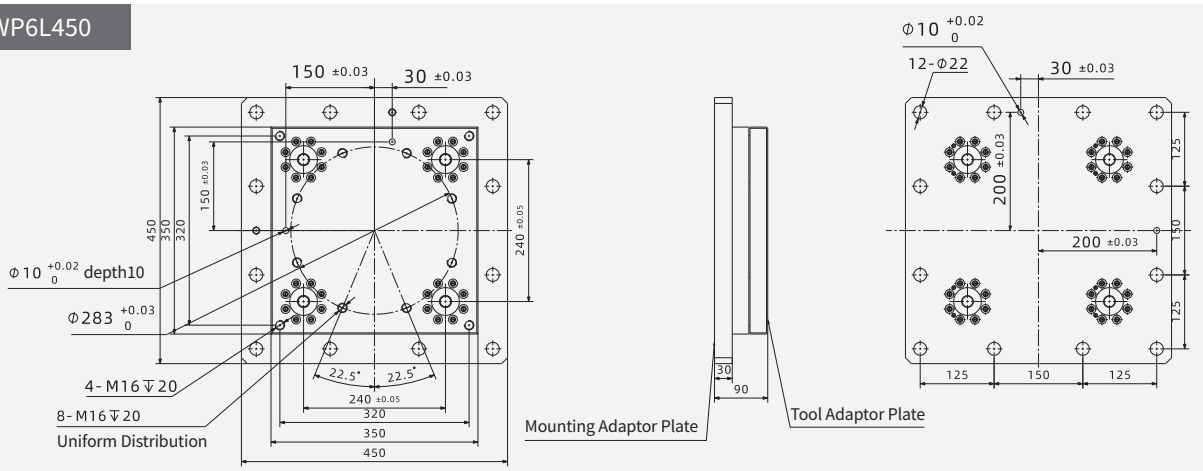

## KWT6D600-3K



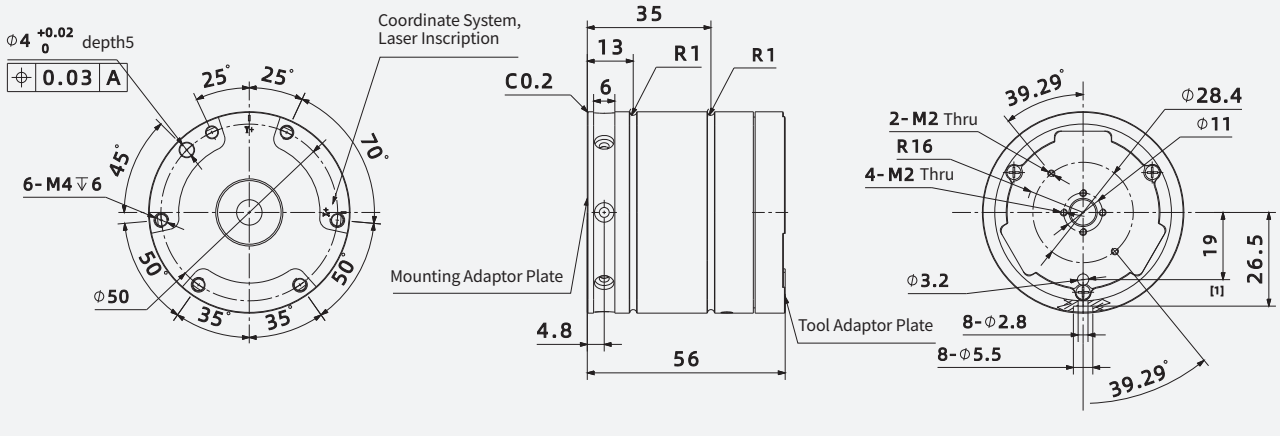
## KWP6L800



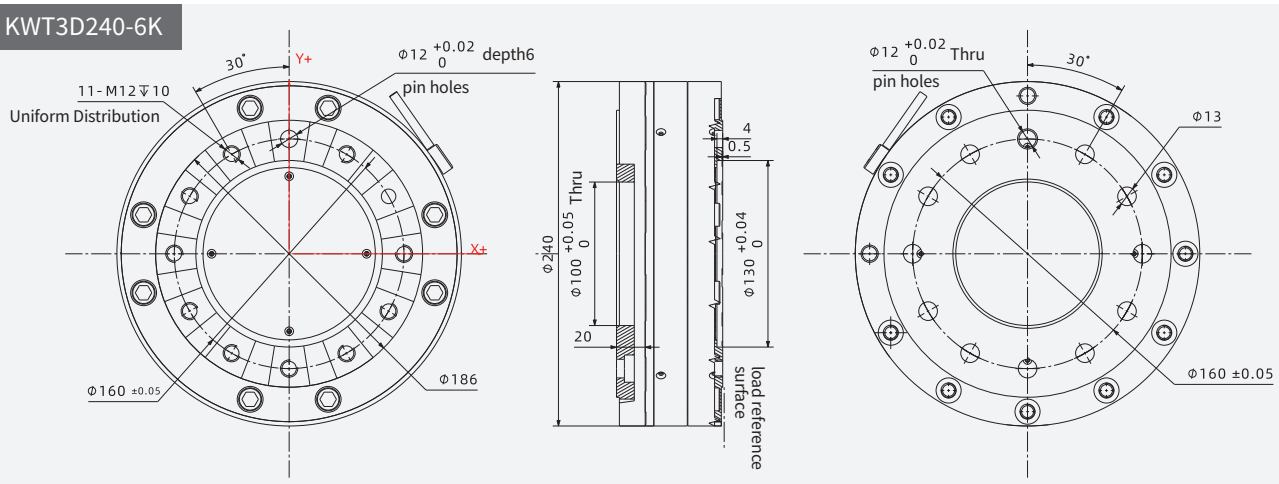

## KWP6L450



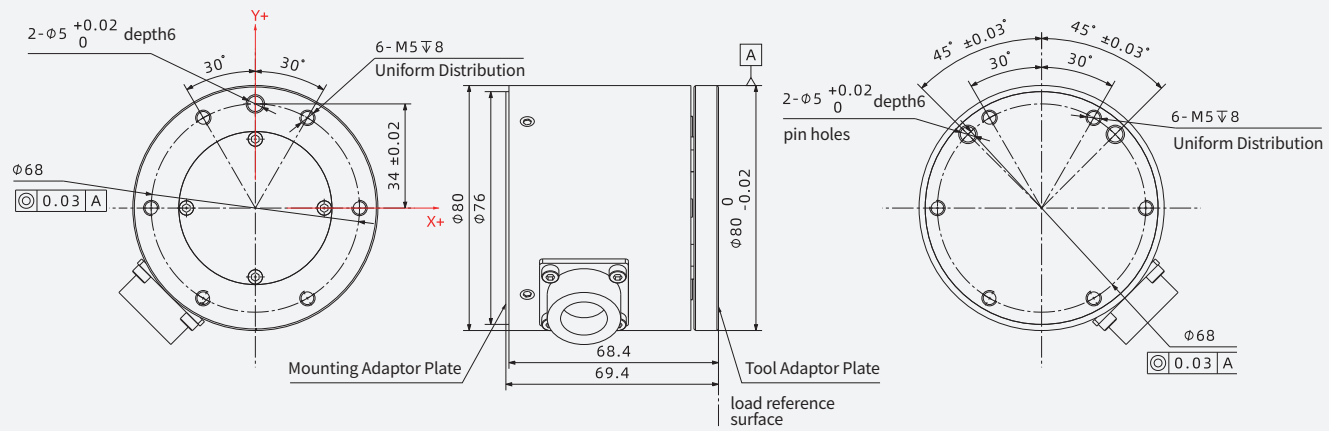

## KWR57F-3D



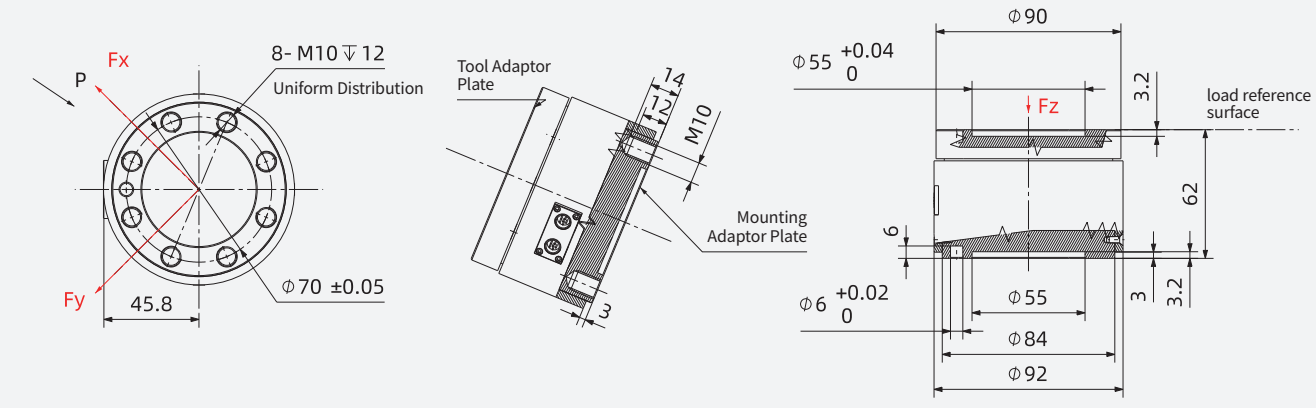
## KWT3D240-6K



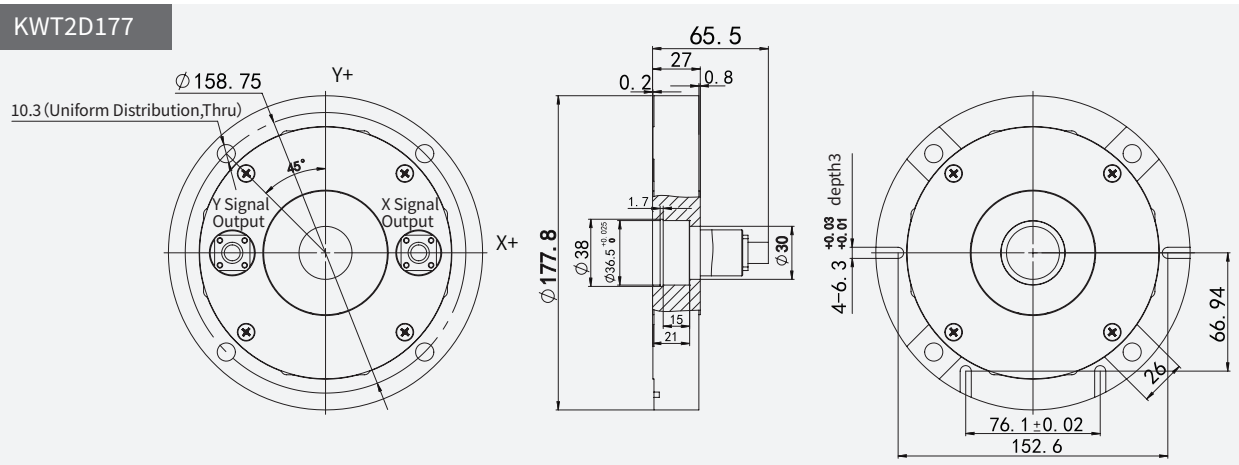

## KWT3D80



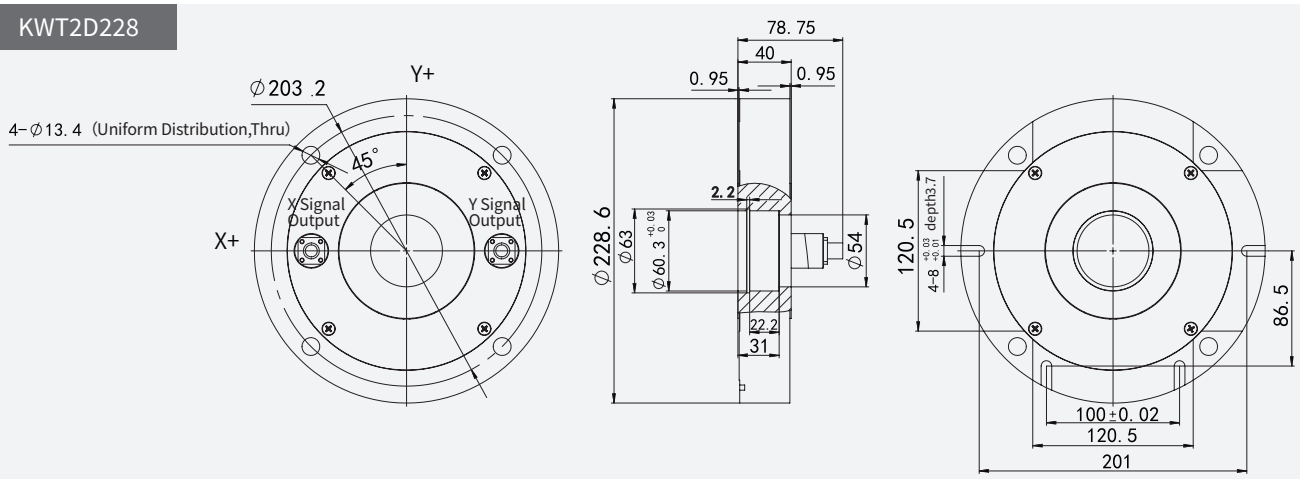

## KWT3D92



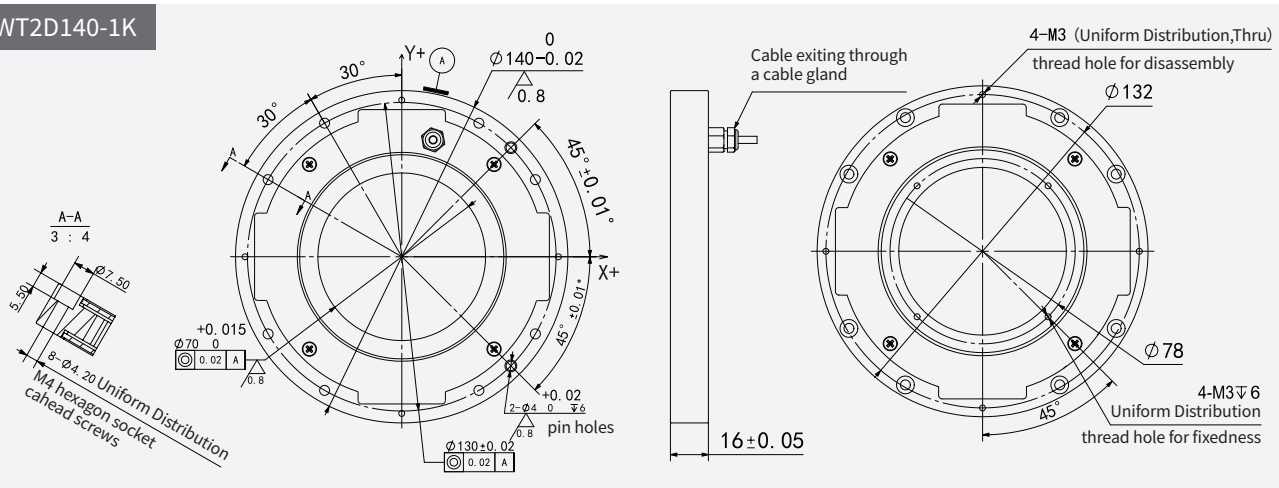
## KWT2D177




## KWT2D228




## KWT2D140-1K



# Signal Acquisition Module

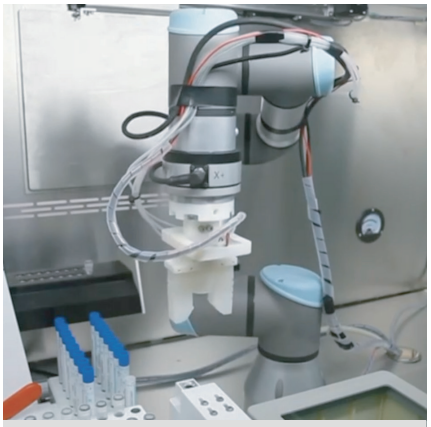
KUNWEI

| Model | | | Dimension (mm) | Communication | | Power Supply (VDC) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| | | | | Input Signal | Output Signal | | |
|  | Single Channel Signal Collector | KWH01CAMU | 66.5x24x14 | Single Channelt Anaglog Signal | USB | USB Power Supply | 0.02 |
|  Signal Acquisition Module | RS422 | KWH06C70NLA | 70x48x25 | Six Channel Anaglog Signal | RS422 | 12~48 | 0.15 |
|  Signal Acquisition Module | RS422 | KWH06C80NLA | 80x100x 25 | Six Channel Anaglog Signal | RS422 | 12~48 | 0.20 |
| | RS485 | KWH06C80NLB | 80x100x25 | | RS485 | 12~48 | 0.20 |
| | CAN | KWH06C80NLC | 80x100x25 | | CAN | 12~48 | 0.20 |
| | CANFD | KWH06C80NCF | 80x100x25 | | CANFD | 12~48 | 0.20 |
|  Signal Acquisition Module | RS485 | KWH06S100NLB | 100x86x24 | Six Channel Anaglog Signal | RS485 | 12~48 | 0.30 |
|  Signal Acquisition Module | RS422 | KWH06C112HLA | 112x105x32 | Six Channel Anaglog Signal | RS422 | 12~48 | 0.35 |
| | RS485 | KWH06C112HLB | 112x105x32 | | RS485 | 12~48 | 0.35 |
| | CAN | KWH06C112HLC | 112x105x32 | | CAN | 12~48 | 0.35 |
| | EtherCAT | KWH06C112HLEC | 112x105x32 | | EtherCAT | 12~48 | 0.35 |
| | Ethernet | KWH06C112HLEN | 112x105x32 | | Ethernet | 12~48 | 0.35 |
|  Signal Acquisition Module | EtherCAT | KWH00C106LEC | 106x65x30 | Serial Port Digital Signal | EtherCAT | 12~48 | 0.25 |
| | Ethernet | KWH00C106LEN | 106x65x30 | | Ethernet | 12~48 | 0.25 |
|  Serial Device Server | EtherCAT | KWH00C100LEC | 100x50x25 | Serial Port Digital Signal | EtherCAT | 12~48 | 0.12 |
|  Serial Device Server | Ethernet | KWH00C100LEN | 100x50x25 | Serial Port Digital Signal | Ethernet | 12~48 | 0.12 |
|  Serial Device Server | Ethernet | KWH00C100LEN-ME | 100x60x25 | Serial Port Digital Signal | Ethernet | 12~48 | 0.18 |

# Application Scenarios

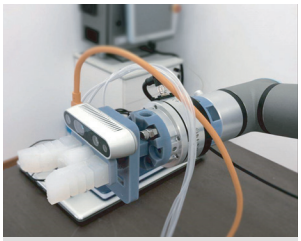
KUNWEI

## Robot Force Sensing

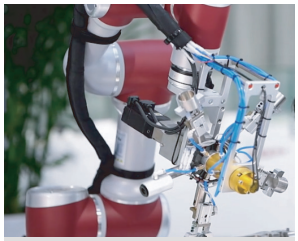


◎ Medical Detection

◎ Dragging Indication

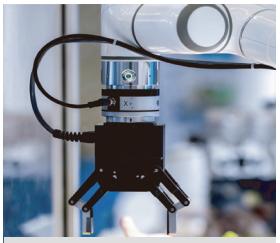


◎ Machine Mechanics

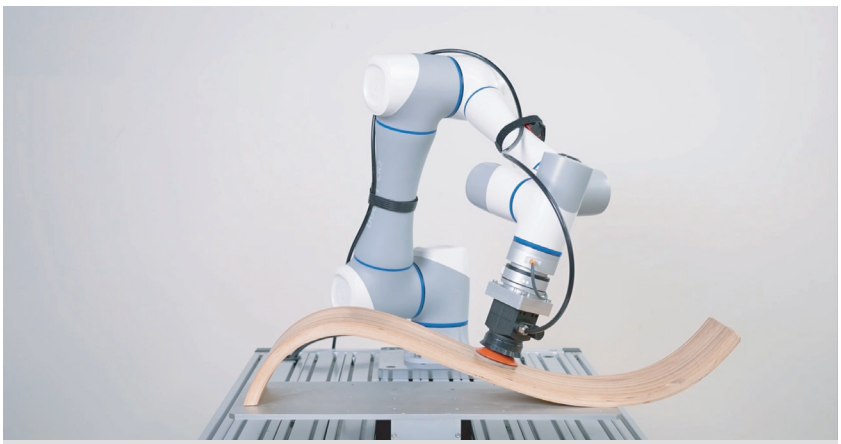


◎ Precision Assembly

◎ Precision Polishing

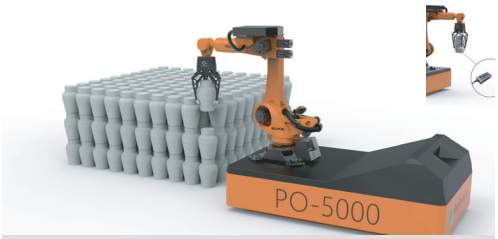


◎ Entertainment

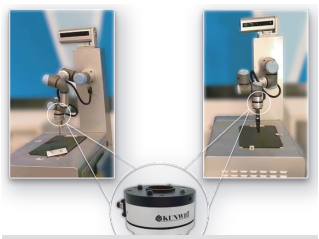


◎ Curved Surface Grinding

◎ Constant Force Grinding




◎ Gripper Fingertip Force Sense



◎ Force Control Training

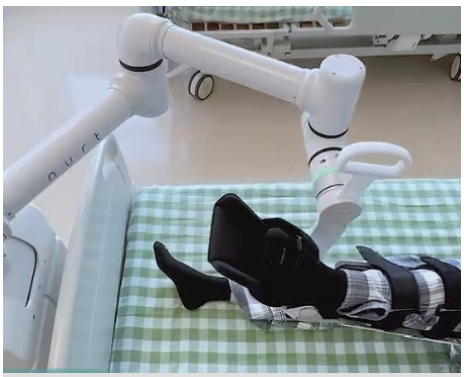
◎ Collaborative Robot Collision Test

## Exercise/Rehabilitation

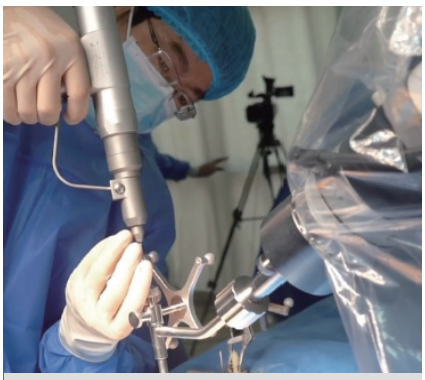
◎ Motion Wind Resistance Test

◎ Motion Wind Resistance Test

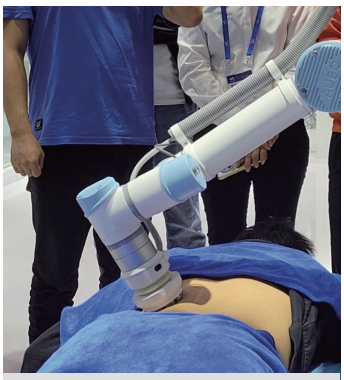
◎ Speed Skating Wind Resistance Test



◎ Rehabilitation Robot

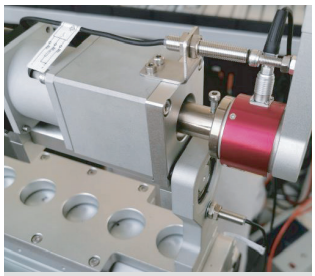


◎ Orthopedic Surgical Robot



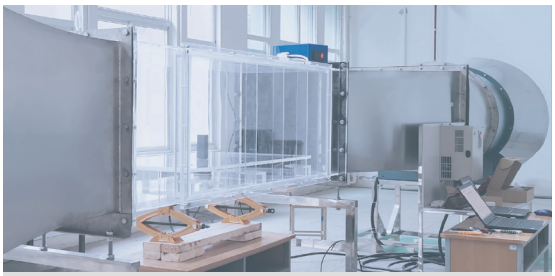
◎ Force Control Massage

## Industry/Test



◎ Torque Monitoring

◎ Cutting Force Measurement



◎ Building ModelWind Load Test

## Aviation Aerospace

◎ Aviation Aerospace

◎ Aviation Aerospace

◎ Aviation Aerospace


# SIX-AXIS