



# HYDRAULIC MACHINERY MANUFACTURING



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WEIHAI GJ ENGINEERING MACHINERY CO., LTD.





# CONTENTS

## ABOUT US

Company Profile

Honor and Qualification

Core Team



## COMPANY STRENGTH

Production Strength

Product Advantage

Customized Service



## MAIN PRODUCTS

360° Rotary Quick Hitch

Tilt Quick Hitch

Tilt Rotator

Rotary Actuator







## WEIHAI GJ ENGINEERING MACHINERY CO., LTD.

Weihai GJ Engineering Machinery Co., Ltd. is located in the beautiful Weihai city, Shandong province. The company was established in April 2007, covering an area of more than 11395 square meters, and the factory supporting construction area is more than 7800 square meters.

Weihai GJ Engineering Machinery Co., Ltd. is your trustworthy partner for hydraulic engineering machinery and accessories. Products are exported to 80 countries and regions around the world, including Germany, the United States, France and Russia.

**2007.4**  
was established in  
April 2007

**7800m<sup>2</sup>**  
covering an area of more  
than 7800 square meters

**80**  
Exported to 80 countries and  
regions around the world

## HONOR AND QUALIFICATION





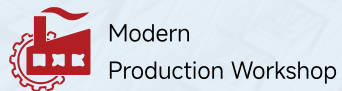
## COMPANY ADVANTAGE

Our company boasts modern production workshops, advanced equipment, skilled technicians, and comprehensive manufacturing process.

We have a professional production research and development team. Our technical engineers custom design and innovate functionality and application of different products, providing customers with satisfactory user experiences and helping them enhance their sales value.

Our company possesses a perfect quality control system. From design to production, and then to assembly and adjustment, we control the quality of every step. We strictly follow the designs in production and processing to ensure the products leaving our factory are perfect and up to standard.

Innovative design, high precision, robust and durable steel products with superior stable performance are GJ product features, and have been favored and recognized by all customers here and abroad.



Quality-oriented, pursuit of technological innovation and high quality product is the eternal driving force for enterprise development.

Looking into the future, Weihai GJ Engineering Machinery Co., Ltd. will further increase technological innovation and market expansion efforts, constantly improve the core competitiveness, and reward domestic and foreign investors with high-quality products.

## 360° ROTARY QUICK HITCH

### PRODUCT FEATURES

- Continuous 360° Rotation: Enables full 360-degree unrestricted rotational movement of attached implements, eliminating angular limitations and allowing seamless operation in any direction, ideal for tasks requiring multi-angle positioning.
- High Torque Handling: Constructed with reinforced gears, bearings, and high-strength steel components to transmit and maintain high rotational torque, ensuring reliable performance even when handling heavy loads or tough materials.
- Quick Attachment Compatibility: Integrates standard quick-connect interfaces (e.g., universal hitch patterns) to rapidly pair with a wide range of implements (e.g., excavator buckets, pallet forks, sweepers), streamlining tool changeover processes.
- Dual-Lock Safety Mechanism: Features a dual-locking system to secure the attached implements at any rotation angle, preventing unintended movement during operation and enhancing operator and equipment safety.



360° ROTARY QUICK HITCH



PRODUCT PARAMETER

| Model                     | GJRH09 | GGJRH16 | GJRH32 | GJRH50 | GJRH70 | GJRH90 | GJRH150 |
|---------------------------|--------|---------|--------|--------|--------|--------|---------|
| Applicable Excavator (T)  | 1.5-3  | 3-5     | 5-8    | 8-12   | 12-15  | 15-23  | 23-30   |
| Working Pressure (Pa)     | 140    | 140     | 140    | 140    | 140    | 140    | 140     |
| Working Flow (L/min)      | 20     | 30      | 40     | 60     | 60     | 75     | 75      |
| Max Circuit Pressure (Pa) | 175    | 175     | 175    | 175    | 175    | 175    | 175     |
| Machine Weight (Kg)       | 95     | 120     | 148    | 248    | 320    | 375    | 500     |

360° ROTARY QUICK HITCH-M



PRODUCT PARAMETER

| Model                     | GJRH09-M03 | GJRH16-M10 | GJRH32-M10 | GJRH50-M10 | GJRH70-M18 | GJRH90-M20 | GJRH90-M20 | GJRH150-M26 |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Applicable Excavator (T)  | 1.5-3      | 3-5        | 5-8        | 8-10       | 10-15      | 15-16      | 16-19      | 19-26       |
| Working Pressure (Pa)     | 140        | 140        | 140        | 140        | 140        | 140        | 140        | 140         |
| Working Flow (L/min)      | 20         | 30         | 40         | 60         | 60         | 75         | 75         | 75          |
| Max Circuit Pressure (Pa) | 175        | 175        | 175        | 175        | 175        | 175        | 175        | 175         |
| Machine Weight (Kg)       | 95         | 120        | 148        | 248        | 320        | 375        | 395        | 500         |



## 360° ROTARY QUICK HITCH-L



### PRODUCT PARAMETER

| Model                     | GJRH09-MS/HS01 | GJRH09-MS/HS03 | GJRH16-MS/HS03 | GJRH32-MS/HS03 | GJRH32-MS/HS08 | GJRH50-MS/HS08 |
|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Applicable Excavator (T)  | 1.5-3          | 1.5-3          | 3-5            | 5-8            | 5-8            | 8-12           |
| Working Pressure (Pa)     | 140            | 140            | 140            | 140            | 140            | 140            |
| Working Flow (L/min)      | 20             | 20             | 30             | 40             | 40             | 60             |
| Max Circuit Pressure (Pa) | 175            | 175            | 175            | 175            | 175            | 175            |
| Machine Weight (Kg)       | 90             | 95             | 120            | 148            | 188            | 248            |

| Model                     | GJRH70-MS/HS08 | GJRH70-MS/HS10 | GJRH90-MS/HS10 | GJRH90-MS/HS21 | GJRH150-MS21/HS21 | GJRH150-MS25/HS25 |
|---------------------------|----------------|----------------|----------------|----------------|-------------------|-------------------|
| Applicable Excavator (T)  | 12-15          | 12-15          | 15-23          | 15-23          | 23-30             | 23-30             |
| Working Pressure (Pa)     | 140            | 140            | 140            | 140            | 140               | 140               |
| Working Flow (L/min)      | 60             | 60             | 75             | 75             | 75                | 75                |
| Max Circuit Pressure (Pa) | 175            | 175            | 175            | 175            | 175               | 175               |
| Machine Weight (Kg)       | 280            | 320            | 375            | 395            | 500               | 550               |

## 360° ROTARY QUICK HITCH-S



### PRODUCT PARAMETER

| Model                     | GJRH09-S30 | GJRH09-S40 | GJRH16-S40 | GJRH32-S40 | GJRH32-S45 | GJRH32-S50 | GJRH50-S45 |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|
| Applicable Excavator (T)  | 1.5-3      | 1.5-3      | 3-5        | 5-8        | 5-8        | 5-8        | 8-12       |
| Working Pressure (Pa)     | 140        | 140        | 140        | 140        | 140        | 140        | 140        |
| Working Flow (L/min)      | 20         | 20         | 30         | 40         | 40         | 40         | 60         |
| Max Circuit Pressure (Pa) | 175        | 175        | 175        | 175        | 175        | 175        | 175        |
| Machine Weight (Kg)       | 90         | 98         | 120        | 148        | 188        | 195        | 248        |

| Model                     | GJRH50-S50 | GJRH70-S50 | GJRH70-S60 | GJRH90-S60 | GJRH90-S70 | GJRH150-S70 | GJRH150-S80 |
|---------------------------|------------|------------|------------|------------|------------|-------------|-------------|
| Applicable Excavator (T)  | 8-12       | 12-15      | 12-15      | 15-23      | 15-23      | 23-30       | 23-30       |
| Working Pressure (Pa)     | 140        | 140        | 140        | 140        | 140        | 140         | 140         |
| Working Flow (L/min)      | 60         | 60         | 60         | 75         | 75         | 75          | 75          |
| Max Circuit Pressure (Pa) | 175        | 175        | 175        | 175        | 175        | 175         | 175         |
| Machine Weight (Kg)       | 255        | 280        | 320        | 375        | 395        | 500         | 550         |

## 360° ROTARY QUICK HITCH WITH CLAMP



### PRODUCT PARAMETER

| Model                     | GJRH09 | GJRH16 | GJRH32 | GJRH50 | GJRH70 | GJRH90 | GJRH150 |
|---------------------------|--------|--------|--------|--------|--------|--------|---------|
| Applicable Excavator (T)  | 1.5-3  | 3-5    | 5-8    | 8-12   | 12-15  | 15-23  | 23-30   |
| Working Pressure (Pa)     | 140    | 140    | 140    | 140    | 140    | 140    | 140     |
| Working Flow (L/min)      | 20     | 30     | 40     | 60     | 60     | 75     | 75      |
| Max Circuit Pressure (Pa) | 175    | 175    | 175    | 175    | 175    | 175    | 175     |
| Machine Weight (Kg)       | 125    | 150    | 178    | 293    | 365    | 455    | 580     |

## TILT QUICK HITCH

### PRODUCT FEATURES

- ⦿ Manufactured from top quality steel and componentry;
- ⦿ Designed for safety, reliability and easy operation;
- ⦿ Pick up attachments within seconds;
- ⦿ The key safety features of the front lock and the back lock;
- ⦿ 180 degrees tilting both directions;
- ⦿ Meets all current and proposed worldwide safety standard.

### PRODUCT ADVANTAES

- ⦿ Using high-strength materials; suitable for various models of 0.8-30 tons;
- ⦿ Hydraulically controlled valve safety device be taken to ensure safety;
- ⦿ Without retrofitting and without disassembling the pin shaft, the attachments of the excavator can be replaced, installation is quick and the work efficiency greatly improved;
- ⦿ No need manually switch the bucket pin between attachments, replacement can be done by gently moving the switch for seconds, which is time-saving, labor-saving, simple and convenient;
- ⦿ It is mainly used in the workplace where the front-end working device of the excavator needs to be frequently replaced.



## TILT QUICK HITCH-S



### PRODUCT PARAMETER

| Category/Model                 | GJTH500-S30 | GJTH900/1600-S40 | GJTH3200-S40 | GJTH3200-S50 | GJTH5000-S45 | GJTH7000-S50 | GJTH9000-S60 | GJTH15000-S70 |
|--------------------------------|-------------|------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Quick Coupler                  | S30         | S40              | S40          | S50          | S45          | S50          | S60          | S70           |
| Machine Weight [ton]           | 0-2         | 2-6              | 5-7          | 5-7          | 5-12         | 5-12         | 12-20        | 18-24         |
| Weight From [kg]               | 64          | 95               | 145          | 190          | 210          | 210          | 360          | 620           |
| Building Height [mm]           | 162         | 368              | 394          | 440          | 445          | 481          | 515          | 625           |
| Length [mm]                    | 263.6       | 276.4            | 280.4        | 371.4        | 338.1        | 404.5        | 463.5        | 507           |
| Cylinder Width [mm]            | 224.1       | 237.4            | 240.4        | 314.4        | 394.6        | 346.5        | 387.5        | 422           |
| Tilt Degree                    | 180°        | 180°             | 180°         | 180°         | 180°         | 180°         | 180°         | 134°          |
| Pin Diameter [mm]              | 25-35       | 35-45            | 35-50        | 45-60        | 45-60        | 45-60        | 60-80        | 60-80         |
| Max Width Dipper Arm [mm]      | 125         | 160              | 200          | 230          | 230          | 230          | 334          | 400           |
| Pin Distance [cc-measure] [mm] | 85-180      | 130-270          | 235-345      | 235-365      | 220-365      | 220-365      | 300-460      | 270-485       |
| Oil Flow [l/min]               | 5-10        | 9-28             | 15-30        | 15-30        | 19-58        | 19-58        | 26-78        | 35-105        |
| Max Pressure [pa]              | 210         | 210              | 210          | 210          | 210          | 210          | 210          | 210           |
| Max Pressure Separate AUX [pa] | 175         | 210              | 210          | 210          | 210          | 210          | 350          | 350           |

## TILT QUICK HITCH-L



### PRODUCT PARAMETER

| Category/Model                  | GJTH500-L   | GJTH900-L   | GJTH1600-L  | GJTH3200-L  | GJTH5000-L  | GJTH7000-L  | GJTH9000-L  | GJTH15000-L |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Excavator                       | 0.8-2Ton    | 2-3Ton      | 3-5 Ton     | 5-8 Ton     | 8-12Ton     | 12-15 Ton   | 15-23Ton    | 23-30Ton    |
| Adapter                         | MS/HS01     | MS/HS01/ 03 | MS/HS 03    | MS/HS03/ 08 | MS/HS 08/10 | MS/HS 08/10 | MS/HS 10/21 | MS/HS 21/25 |
| Tilt Degree                     | 180°        | 180°        | 180°        | 180°        | 180°        | 180°        | 180°        | 134°        |
| Drive Torque                    | 500 NM      | 900 NM      | 1600 NM     | 3200 NM     | 5000NM      | 7000NM      | 9000NM      | 15000 NM    |
| Tilt Displacement               | 0.627 L/MN  | 0.627 L/MN  | 0.627 L/MN  | 1.016 L/MN  | 1.526 L/MN  | 1.896 L/MN  | 2.3 L/MN    | 3.62 L/MN   |
| Tilt Working Pressure(pa)       | 210         | 210         | 210         | 210         | 210         | 210         | 210         | 210         |
| Tilt Necessary Flow             | 2-4 Lpm     | 2-4 Lpm     | 5-16 Lpm    | 5-16 Lpm    | 15-44 Lpm   | 15-44 Lpm   | 19-58 Lpm   | 35-105 Lpm  |
| Working Pressure(pa)            | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      |
| Necessary Flow                  | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   |
| Overall Dimension (L2*W1*H1) mm | 477*280*567 | 477*280*567 | 477*280*567 | 518*310*585 | 582*350*649 | 582*350*649 | 720*450*784 | 858*500*911 |
| Weight Approx. (kg)             | 64          | 82          | 120         | 175         | 248         | 280         | 413         | 550         |



## TILT QUICK HITCH-M



### PRODUCT PARAMETER

| Model                            | GJTH500-M02 | GJTH900-M03 | GJTH1600-M10 | GJTH3200-M10 | GJTH5000-M10 | GJTH7000-M18 | GJTH9000-M18 | GJTH9000-M20 | GJTH15000-M26 |
|----------------------------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Quick Coupler                    | M02         | M03         | M10          | M10          | M10          | M18          | M18          | M20          | M26           |
| Excavator Operating Weight [ton] | 0.8-2       | 2-3         | 3-5          | 5-8          | 8-10         | 10-15        | 15-16        | 16-19        | 19-26         |
| Machine Weight [kg]              | 64          | 80          | 148          | 166          | 238          | 280          | 395          | 455          | 530           |
| Drive Torque                     | 500NM       | 900NM       | 1600NM       | 3200NM       | 5000NM       | 7000NM       | 9000NM       | 9000NM       | 15000NM       |
| Holding Torque                   | 1200NM      | 2400NM      | 4400NM       | 7200NM       | 12000NM      | 20000NM      | 26000NM      | 26000NM      | 43000NM       |
| Tilt Displacement                | 0.627L/MIN  | 0.627L/MIN  | 0.627L/MIN   | 0.627L/MIN   | 0.627L/MIN   | 0.627L/MIN   | 0.627L/MIN   | 0.627L/MIN   | 0.627L/MIN    |
| Tilt Degree                      | 180°        | 180°        | 180°         | 180°         | 180°         | 180°         | 180°         | 180°         | 134°          |
| Oil Flow[L/min]                  | 5-10        | 9-28        | 15-30        | 15-30        | 19-58        | 19-58        | 19-58        | 26-78        | 35-105        |
| Max Pressure [pa]                | 210         | 210         | 210          | 210          | 210          | 210          | 210          | 210          | 210           |
| Max Pressure Separate AUX [pa]   | 175         | 210         | 210          | 210          | 210          | 210          | 210          | 350          | 350           |

## TILT QUICK HITCH

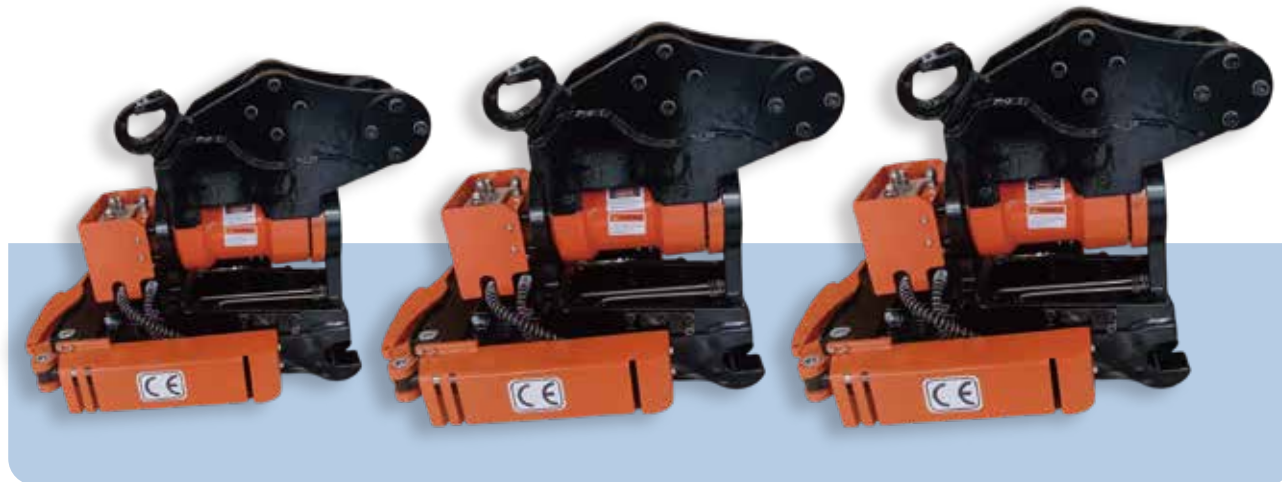


### PRODUCT PARAMETER

| Category/Model                   | GJTH500     | GJTH900     | GJTH1600    | GJTH3200    | GJTH5000    | GJTH7000    | GJTH9000    | GJTH15000   |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Tilt Degree                      | 180°        | 180°        | 180°        | 180°        | 180°        | 180°        | 180°        | 134°        |
| Drive Torque                     | 500 NM      | 900 NM      | 1600 NM     | 3200 NM     | 5000 NM     | 7000 NM     | 9000 NM     | 15000 NM    |
| Tilt Displacement                | 0.627 L/MN  | 0.627 L/MN  | 0.627 L/MN  | 1.016 L/MN  | 1.526 L/MN  | 1.896 L/MN  | 2.3 L/MN    | 3.62 L/MN   |
| Tilt Working Pressure (pa)       | 210         | 210         | 210         | 210         | 210         | 210         | 210         | 210         |
| Tilt Necessary Flow              | 2-4 Lpm     | 2-4 Lpm     | 5-16 Lpm    | 5-16 Lpm    | 15-44 Lpm   | 15-44 Lpm   | 19-58 Lpm   | 35-105 Lpm  |
| Working Pressure                 | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      | 25-300      |
| Necessary Flow                   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   | 15-25 Lpm   |
| Excavator Operating Weight [ton] | 0.8-2 Ton   | 2-3 Ton     | 3-5 Ton     | 5-8 Ton     | 8-12 Ton    | 11-15 Ton   | 15-23 Ton   | 23-30Ton    |
| Overall Dimension (L2*W1*H1) mm  | 477*280*567 | 477*280*567 | 477*280*567 | 518*310*585 | 582*350*649 | 582*350*649 | 720*450*784 | 858*500*911 |
| Machine Weight [kg]              | 64          | 82          | 120         | 175         | 238         | 280         | 413         | 550         |



## TILT QUICK HITCH WITH CLAMP



### PRODUCT PARAMETER

| Category/Model            | GJTH500    | GJTH900    | GJTH1600   | GJTH3200   | GJTH5000   | GJTH7000   | GJTH9000  | GJTH15000  |
|---------------------------|------------|------------|------------|------------|------------|------------|-----------|------------|
| Tilt Degree               | 180°       | 180°       | 180°       | 180°       | 180°       | 180°       | 180°      | 134°       |
| Drive Torque              | 500 NM     | 900 NM     | 1600 NM    | 3200 NM    | 5000NM     | 7000 NM    | 9000 NM   | 15000 NM   |
| Tilt Displacement         | 0.627 L/MN | 0.627 L/MN | 0.627 L/MN | 1.016 L/MN | 1.526 L/MN | 1.896 L/MN | 2.3 L/MN  | 3.62 L/MN  |
| Tilt Working Pressure(Pa) | 210        | 210        | 210        | 210        | 210        | 210        | 210       | 210        |
| Tilt Necessary Flow       | 2-4 Lpm    | 2-4 Lpm    | 5-16 Lpm   | 5-16 Lpm   | 15-44 Lpm  | 15-44 Lpm  | 19-58 Lpm | 35-105 Lpm |
| Working Pressure(Pa)      | 25-300     | 25-300     | 25-300     | 25-300     | 25-300     | 25-300     | 25-300    | 25-300     |
| Necessary Flow            | 15-25 Lpm  | 15-25 Lpm  | 15-25 Lpm  | 15-25 Lpm  | 15-25 Lpm  | 15-25 Lpm  | 15-25 Lpm | 15-25 Lpm  |
| Excavator                 | 0.8-2 Ton  | 2-3 Ton    | 3-5 Ton    | 5-8 Ton    | 8-12 Ton   | 11-15 Ton  | 15-23T    | 23-30T     |
| Weight                    | 94KG       | 112 Kg     | 150 Kg     | 205 Kg     | 293KG      | 325 Kg     | 493 Kg    | 630Kg      |

## TILTROTATOR

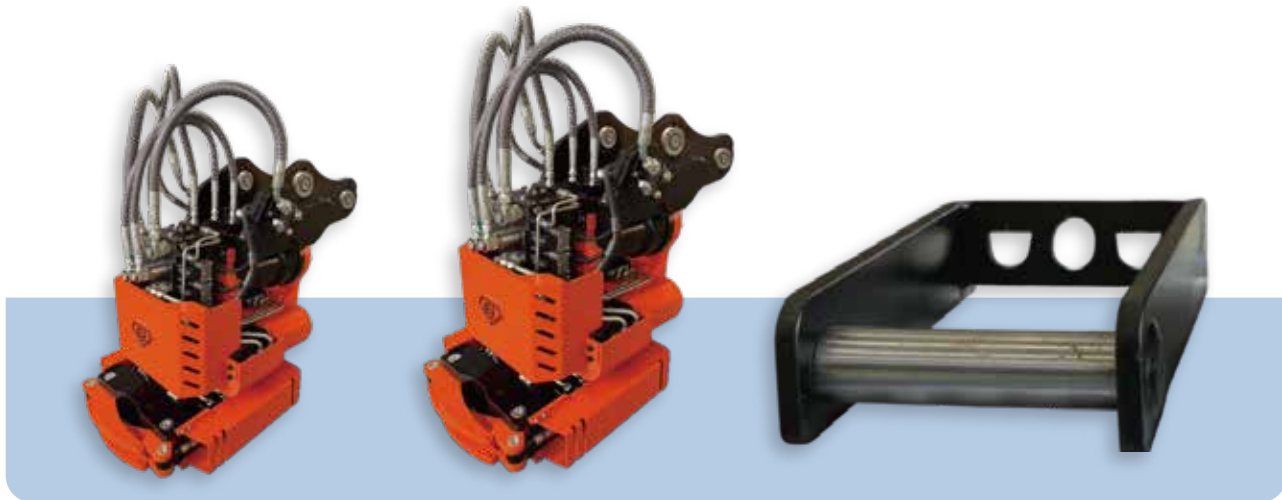
### PRODUCT FEATURES

- Combined Tilt and Rotation Capability: Integrates both 134° tilt and 360° continuous rotation functions, enabling attached tools (e.g., buckets, grapples) to maneuver in multiple axes—eliminating the need to reposition the host machine for complex tasks.
- Precision Control: Equipped with advanced hydraulic valves and proportional controls, ensuring smooth, fine-tuned adjustments of tilt angle and rotation speed for accurate operations like grading, digging, or material placement.
- Quick Attachment Compatibility: Features the universal or machine-specific mounting interfaces for fast connection to a wide range of tools, reducing downtime during equipment swaps.
- Dual-Lock Safety Mechanism: Features a dual-locking system to secure tilt and rotation positions during operation or transport, preventing unintended movement and enhancing operator safety.





## TILTROTATOR-L



### PRODUCT PARAMETER

| Model                     |                     | GJTR1600<br>MS/HS03 | GJTR3200<br>MS/HS03 | GJTR3200<br>MS/HS08 | GJTR5000<br>MS/HS08 | GJTR7000<br>MS/HS08 | GJTR7000<br>MS/HS10 | GJTR9000<br>MS/HS10 | GJTR9000<br>MS/HS21 | GJTR15000<br>MS/HS21 | GJTR15000<br>MS/HS25 |
|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Applicable Excavator (T)  |                     | 3-5                 | 5-8                 | 5-8                 | 8-10                | 10-12               | 12-15               | 15-19               | 19-23               | 23-28                | 28-30                |
| Working Pressure (Pa)     |                     | 180-210             | 180-210             | 180-210             | 180-210             | 180-210             | 180-210             | 180-210             | 180-210             | 180-210              | 180-210              |
| Working Flow (L/min)      |                     | 30-60               | 40-70               | 40-70               | 50-90               | 50-90               | 60-100              | 70-110              | 70-110              | 100-120              | 100-120              |
| Max Circuit Pressure (Pa) |                     | 210                 | 210                 | 210                 | 210                 | 210                 | 210                 | 210                 | 210                 | 210                  | 210                  |
| Weight (Kg)               |                     | 248                 | 395                 | 430                 | 495                 | 680                 | 750                 | 880                 | 948                 | 1100                 | 1200                 |
| Rotation                  | Output Torque (NM)  | 2848                | 4219                | 4219                | 6900                | 6900                | 9415                | 10800               | 10800               | 12000                | 12000                |
|                           | Angle (°)           | ±360                | ±360                | ±360                | ±360                | ±360                | ±360                | ±360                | ±360                | ±360                 | ±360                 |
|                           | Time (s)            | 7                   | 7                   | 7                   | 7                   | 7                   | 7                   | 7                   | 7                   | 7                    | 7                    |
|                           | Flow Rate(L/min)    | 40                  | 40                  | 40                  | 40                  | 60                  | 60                  | 60                  | 75                  | 75                   | 75                   |
| Tilt                      | Tilting Torque (NM) | 1600                | 3200                | 3200                | 5000                | 7000                | 7000                | 9000                | 9000                | 15000                | 15000                |
|                           | Angle (°)           | ±67                 | ±67                 | ±67                 | ±67                 | ±67                 | ±67                 | ±67                 | ±67                 | ±67                  | ±67                  |
|                           | Time (s)            | 5                   | 5                   | 5                   | 5                   | 5                   | 5                   | 5                   | 5                   | 5                    | 5                    |
|                           | Flow Rate(L/min)    | 15-30               | 19-58               | 19-58               | 19-58               | 19-58               | 19-58               | 26-78               | 26-78               | 35-105               | 35-105               |

## TILTROTATOR-S



### PRODUCT PARAMETER

| Model                     |                     | GJTR1600<br>S40 | GJTR3200<br>S40 | GJTR3200<br>S45 | GJTR3200<br>S50 | GJTR5000<br>S45 | GJTR5000<br>S50 | GJTR7000<br>S50 | GJTR7000<br>S60 | GJTR9000<br>S60 | GJTR9000<br>S70 | GJTR15000<br>S70 | GJTR15000<br>S80 |
|---------------------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
| Applicable Excavator (T)  |                     | 3-5             | 5-8             | 5-8             | 5-8             | 8-10            | 8-10            | 10-12           | 12-15           | 15-20           | 20-23           | 23-28            | 28-30            |
| Working Pressure (Pa)     |                     | 180-210         | 180-210         | 180-210         | 180-210         | 180-210         | 180-210         | 180-210         | 180-210         | 180-210         | 180-210         | 180-210          | 180-210          |
| Working Flow (L/min)      |                     | 30-60           | 40-70           | 40-70           | 40-70           | 50-90           | 50-90           | 50-90           | 60-100          | 70-110          | 70-110          | 100-120          | 100-120          |
| Max Circuit Pressure (Pa) |                     | 210             | 210             | 210             | 210             | 210             | 210             | 210             | 210             | 210             | 210             | 210              | 210              |
| Weight (Kg)               |                     | 248             | 395             | 450             | 460             | 495             | 510             | 680             | 750             | 880             | 950             | 1100             | 1200             |
| Rotation                  | Output Torque (NM)  | 2848            | 4219            | 4219            | 4219            | 6900            | 9415            | 9415            | 9415            | 10800           | 10800           | 12000            | 12000            |
|                           | Angle (°)           | ±360            | ±360            | ±360            | ±360            | ±360            | ±360            | ±360            | ±360            | ±360            | ±360            | ±360             | ±360             |
|                           | Time (s)            | 7               | 7               | 7               | 7               | 7               | 7               | 7               | 7               | 7               | 7               | 7                | 7                |
|                           | Flow Rate(L/min)    | 40              | 40              | 40              | 40              | 60              | 60              | 60              | 60              | 75              | 75              | 75               | 75               |
| Tilt                      | Tilting Torque (NM) | 1600            | 3200            | 3200            | 3200            | 5000            | 5000            | 7000            | 7000            | 9000            | 9000            | 15000            | 15000            |
|                           | Angle (°)           | ±67             | ±67             | ±67             | ±67             | ±67             | ±67             | ±67             | ±67             | ±67             | ±67             | ±67              | ±67              |
|                           | Time (s)            | 5               | 5               | 5               | 5               | 5               | 5               | 5               | 5               | 5               | 5               | 5                | 5                |
|                           | Flow Rate(L/min)    | 15-30           | 19-58           | 19-58           | 19-58           | 19-58           | 19-58           | 19-58           | 19-58           | 26-78           | 26-78           | 35-105           | 35-105           |

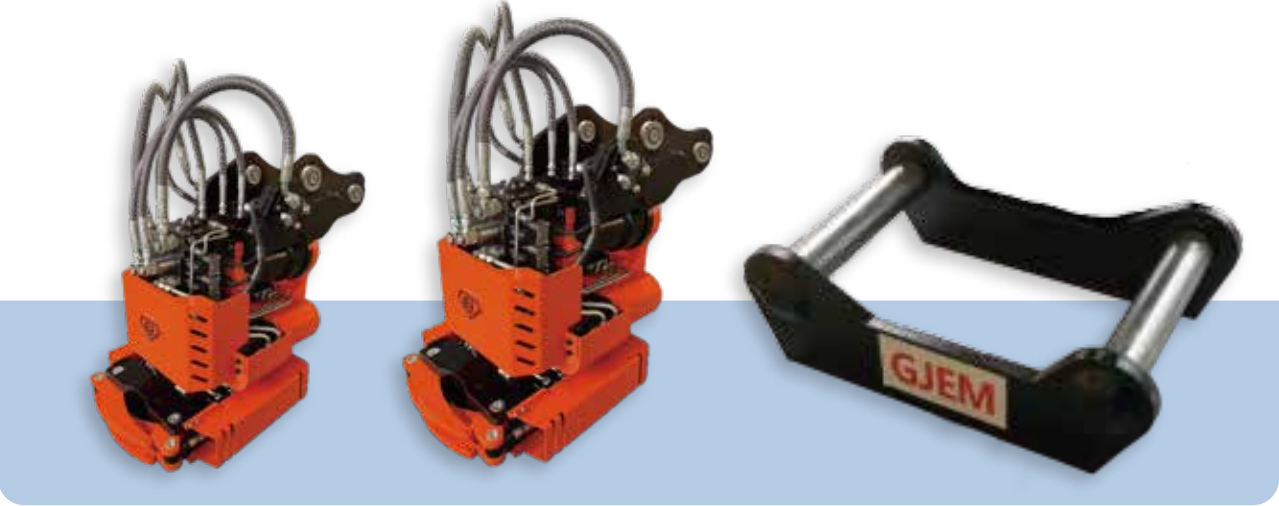
TILTROTATOR-M



PRODUCT PARAMETER

| Model                     |                     | GJTR1600 M10 | GJTR3200 M10 | GJTR5000 M10 | GJTR7000 M18 | GJTR9000 M18 | GJTR9000 M20 | GJTR15000 M26 |
|---------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Applicable Excavator (T)  |                     | 3-5          | 5-8          | 8-10         | 10-15        | 15-16        | 16-19        | 19-26         |
| Working Pressure (Pa)     |                     | 180-210      | 180-210      | 180-210      | 180-210      | 180-210      | 180-210      | 180-210       |
| Working Flow (L/min)      |                     | 30-60        | 40-70        | 50-90        | 60-100       | 70-110       | 70-110       | 100-120       |
| Max Circuit Pressure (Pa) |                     | 210          | 210          | 210          | 210          | 210          | 210          | 210           |
| Weight (Kg)               |                     | 248          | 395          | 495          | 680          | 880          | 950          | 1100          |
| Rotation                  | Output Torque (NM)  | 2848         | 4219         | 6900         | 9415         | 10800        | 10800        | 12000         |
|                           | Angle (°)           | ±360         | ±360         | ±360         | ±360         | ±360         | ±360         | ±360          |
|                           | Time (s)            | 7            | 7            | 7            | 7            | 7            | 7            | 7             |
|                           | Flow Rate(L/min)    | 40           | 40           | 60           | 60           | 75           | 75           | 75            |
| Tilt                      | Tilting Torque (NM) | 1600         | 3200         | 5000         | 7000         | 9000         | 9000         | 15000         |
|                           | Angle (°)           | ±67          | ±67          | ±67          | ±67          | ±67          | ±67          | ±67           |
|                           | Time (s)            | 5            | 5            | 5            | 5            | 5            | 5            | 5             |
|                           | Flow Rate(L/min)    | 15-30        | 19-58        | 19-58        | 19-58        | 26-78        | 26-78        | 35-105        |

TILTROTATOR



PRODUCT PARAMETER

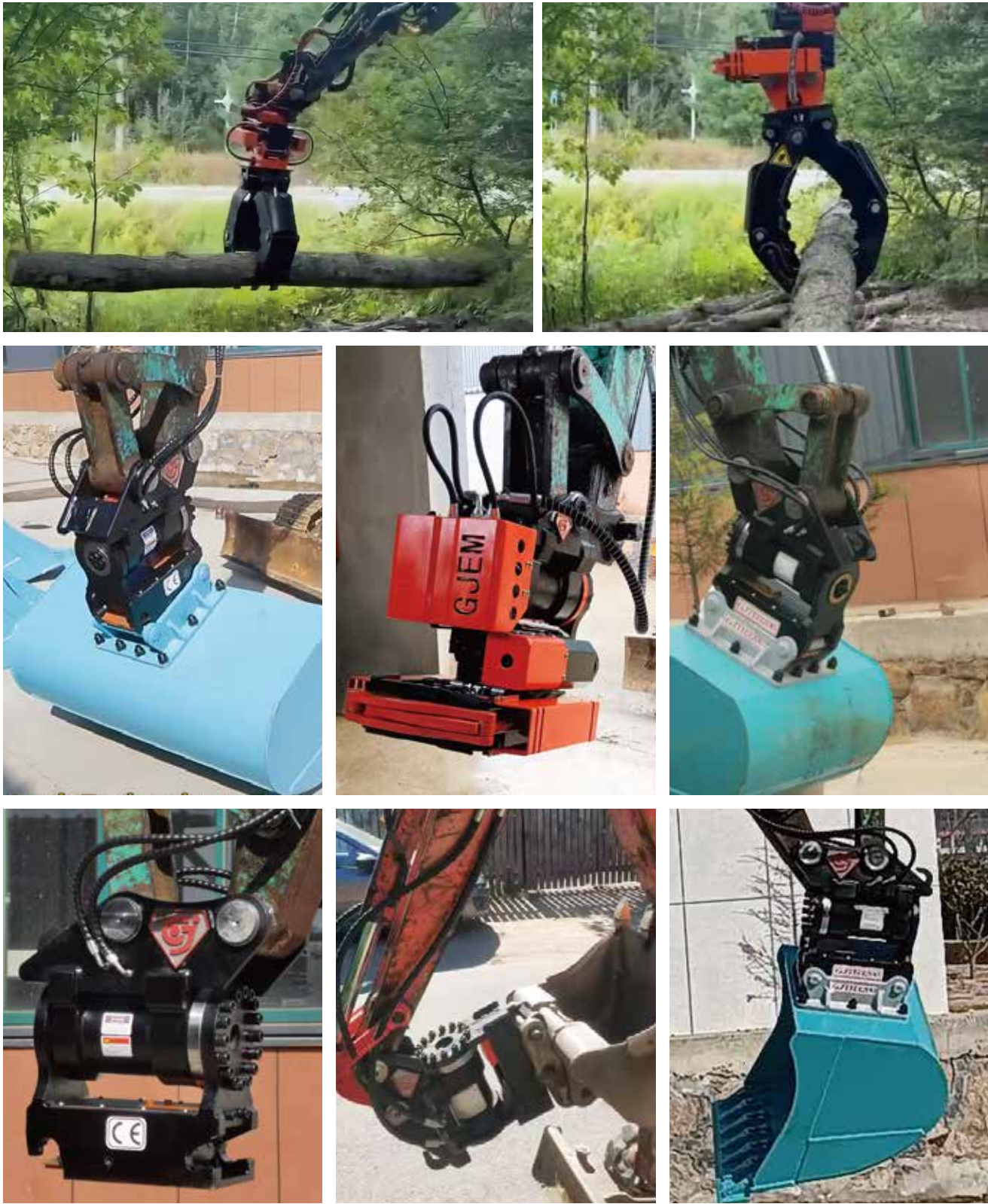
| Model                     |                     | GJTR-1600 | GJTR-3200 | GJTR-5000 | GJTR7000 | GJTR9000 | GJTR15000 |
|---------------------------|---------------------|-----------|-----------|-----------|----------|----------|-----------|
| Applicable Excavator (T)  |                     | 3-5       | 5-8       | 8-10      | 10-15    | 15-23    | 23-30     |
| Working Pressure (Pa)     |                     | 180-210   | 180-210   | 180-210   | 180-210  | 180-210  | 180-210   |
| Working Flow (L/min)      |                     | 30-60     | 40-70     | 50-90     | 60-100   | 70-110   | 100-120   |
| Max Circuit Pressure (Pa) |                     | 210       | 210       | 210       | 210      | 210      | 210       |
| Weight (Kg)               |                     | 248       | 395       | 495       | 680      | 880      | 1100      |
| Rotation                  | Output Torque (NM)  | 2848      | 4219      | 6900      | 9415     | 10800    | 12000     |
|                           | Angle (°)           | ±360      | ±360      | ±360      | ±360     | ±360     | ±360      |
|                           | Time (s)            | 7         | 7         | 7         | 7        | 7        | 7         |
|                           | Flow Rate(L/min)    | 40        | 40        | 60        | 60       | 75       | 75        |
| Tilt                      | Tilting Torque (NM) | 1600      | 3200      | 5000      | 7000     | 9000     | 15000     |
|                           | Angle (°)           | ±67       | ±67       | ±67       | ±67      | ±67      | ±67       |
|                           | Time (s)            | 5         | 5         | 5         | 5        | 5        | 5         |
|                           | Flow Rate(L/min)    | 15-30     | 19-58     | 19-58     | 19-58    | 26-78    | 35-105    |



ROTARY ACTUATOR



APPLICATION SCENARIOS



PRODUCT PARAMETER

| Category/Model                           | GJRA500 | GJRA900 | GJRA1600 | GJRA3200 | GJRA5000 | GJRA7000 | GJRA9000 | GJRA15000 |
|------------------------------------------|---------|---------|----------|----------|----------|----------|----------|-----------|
| Suitable Excavator[t]                    | 0.8-2   | 1.8-3   | 3-5      | 5-8      | 8-12     | 12-15    | 15-23    | 23-30     |
| Drive torque[Nm]@ 21MPa                  | 500     | 900     | 1600     | 3200     | 5000     | 7000     | 9000     | 15000     |
| Holding torque[Nm]@ 21MPa                | 1800    | 2400    | 4400     | 7200     | 14000    | 20000    | 26000    | 43000     |
| Displacement[cc]                         | 176     | 234     | 436      | 800      | 1600     | 2000     | 2500     | 3200      |
| Total Tilt[°]                            | 180     | 180     | 180      | 180      | 180      | 180      | 180      | 134       |
| Weight[KG]                               | 25      | 38      | 65       | 80       | 127      | 148      | 180      | 235       |
| Seat Length Dim(L1)[mm]                  | 224.1   | 237.4   | 240.4    | 314.4    | 338.1    | 346.5    | 387.5    | 422       |
| Overall Length Dim(L2) [mm]              | 263.6   | 276.4   | 280.4    | 371.4    | 394.6    | 404.5    | 463.5    | 507       |
| Mounting Plate Thickness Dim (L3)[mm]    | 20      | 20      | 30       | 30       | 30       | 30       | 35       | 45        |
| Seat Thickness Dim(L4)[mm]               | 73      | 90      | 100      | 105      | 125      | 135      | 152      | 160       |
| Seat Width Dim(W1)[mm]                   | 190     | 180     | 240      | 240      | 310      | 310      | 340      | 380       |
| Mounting Plate Width Dim(W2)[mm]         | 100     | 120-160 | 可定做180   | 150      | 可调-220   | 230      | 280      | 220       |
| Width of Cylinder Seat Plate Dim(H1)[mm] | 65.1    | 64      | 70       | 75       | 91.1     | 89.5     | 92       | 94.4      |
| Mounting Plate Middle Height Dim(H2)[mm] | 110     | 115     | 140      | 150      | 200      | 170      | 200      | 210       |



OTHER ACCESSORY PRODUCTS

Compaction Wheel



Hydraulic Compactor



Rotating Wood Grapple



High Strengthen Grapple



Rotating Light Wood Grapple



Australia Hydraulic Grapple



Thumb Bucket



Hydraulic Shear



Hydraulic Pulverizer



Quick Hitch



Rake



Excavator Ripper



Hydraulic Breaker



Bucket



Hydraulic Thumb



Earth Auger



Mini Excavator



Skid Steer Loader

