

Tire Handlers

- a(1) Tire Clamps
- a(2) F-series Tire Clamps
- a(3) T-series Tire Clamps
- a(4) A-series Tire Clamps
- b Tire Grippers
- c Steel Wheel Clamps



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Forklift Attachments

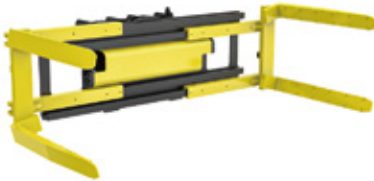
11a Tire Clamps



■ Tire Clamps



■ F-series Tire Clamps



■ T-series Tire Clamps



■ A-series Tire Clamps

Functions & Applications

Tire clamps provide efficient, safe, and damage-free handling, stacking, tilting, and 360 ° rotation of tires. They are widely used in tire manufacturing and large mining truck tire replacement.

Tire Clamps

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Structural Features

- **High-Strength Structural Design:** Ensures long-lasting, stable operation, meeting the demands of intensive, continuous workloads.
- **Split Clamp Arm Design:** Provides excellent visibility, ensuring precision during tire handling.
- **Smooth Clamp Arm Surface:** Thin arm tips easily wedge into tight spaces between tires without damaging adjacent tires.
- **Durable Patterned Clamp Plates:** Wear-resistant and long-lasting, featuring replaceable wear blocks on the back. Users can replace only the wear blocks when worn, avoiding the need to replace the entire clamp plate. Additionally, protective brackets welded near the arm tips prevent the plates from dragging on the ground when in a vertical position, offering comprehensive protection.
- **Hydraulic Pressure-Holding Valve:** Integrated directly onto the clamp arm cylinder, ensuring secure and reliable tire grip during all operations. This minimizes risks caused by hydraulic component or oil circuit failures. A diagnostic port on the cylinder further simplifies fault detection and maintenance.
- **Self-Lubricating High-Strength Support:** Specially designed to extend bushing life at the clamp arm joint, eliminating the need for regular lubrication while protecting the pin shaft.
- **Bi-Directional Hydraulic Lock:** Installed on the hydraulic motor to enable continuous 360° tire rotation in both directions, with self-locking capability at any angle.

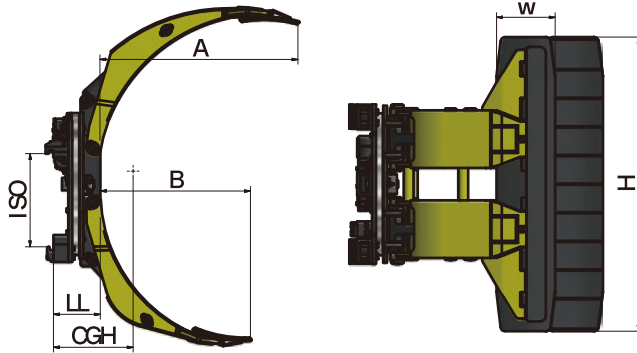
Options

- **Patterned Pate Plates:** Suitable for any tires without special requirements and come as standard configuration.
- **Other Pad Plate Options:** Include welded plates, rubber plates, and soft rubber plates.
- **Customizable Sizes:** Clamp plate dimensions can be tailored to specific needs.



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(1)

Tire Clamps

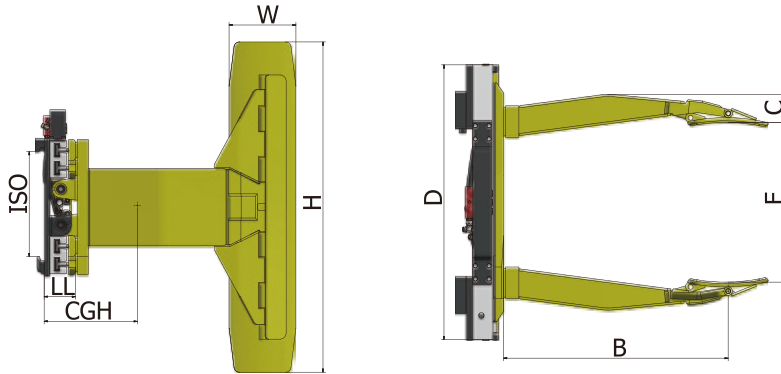


| Model No. | Capacity / Load Center (kg/mm) | Mounting Class (ISO) | Tire Diameter (mm) | Long Arm Length (mm) | Short Arm Length (mm) | Pad size (mm) | Effective Thickness (mm) | Horizontal Center of Gravity (mm) | Weight (kg) |
|--------------|--------------------------------|----------------------|--------------------|----------------------|-----------------------|---------------|--------------------------|-----------------------------------|-------------|
| 11PTR12-A004 | 1200/650 | ISO 2A | 400-1300 | 1460 | 1055 | 300x1500 | 231 | 377 | 560 |
| 11PTR15-A004 | 1500/650 | ISO 2A | 570-1300 | 965 | 626 | 300x1500 | 258 | 404 | 694 |
| 11PTR20-B001 | 2000/800 | ISO 3A | 610-1600 | 1066 | 767 | 300x1500 | 242 | 444 | 875 |
| 11PTR20-B220 | 1500/1000 | ISO 3A | 610-2000 | 1281 | 953 | 300x1500 | 243 | 487 | 1100 |
| 11PTR25-B022 | 1800/1050 | ISO 3A | 850-2200 | 1334 | 983 | 300x1500 | 243 | 487 | 1100 |

Notes :

- 1) The rated load capacity is a designed value calculated based on the rated load center. For the actual overall capacity, please consult the forklift manufacturer.
- 2) Includes 360° rotation in both directions, two (2) additional hydraulic circuits are required from forklift.
- 3) The listed models are ANTWELL's standard product types; tailored solutions are available to meet specific operational requirements.
- 4) Sideshifting functionality can be added.

F-series Tire Clamps

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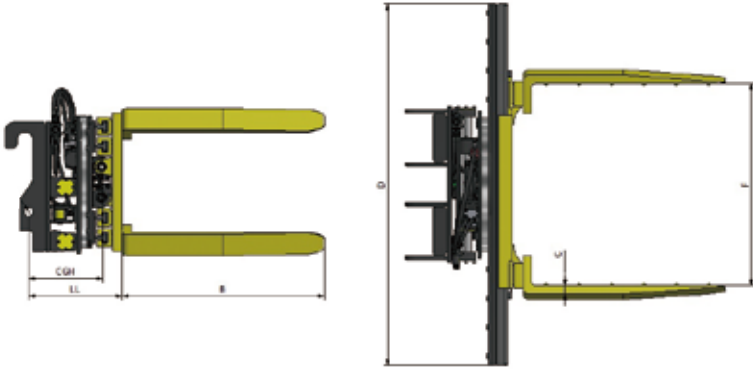
| Model No. | Capacity / Load Center (kg/mm) | Mounting Class (ISO) | Opening Range (mm) | Arm Length (mm) | Arm Thickness (mm) | Frame Width (mm) | Pad Dimensions (mm) | Effective Thickness (mm) | Horizontal Center of Gravity (mm) | Weight (kg) |
|--------------|--------------------------------|----------------------|--------------------|-----------------|--------------------|------------------|---------------------|--------------------------|-----------------------------------|-------------|
| 11PTS20-A101 | 2000/500 | ISO 2A | 500-1800 | 1100 | 112 | 1040 | 300x1500 | 142 | 542 | 640 |
| 11PTS20-B006 | 2000/800 | ISO 3A | 450-1600 | 600 | 102 | 940 | 260x530 | 142 | 234 | 420 |
| 11PTS20-B009 | 2000/800 | ISO 3A | 500-1800 | 850 | 100 | 1040 | 300x1500 | 142 | 423 | 581 |
| 11PTS20-B101 | 2000/500 | ISO 3A | 500-1800 | 1100 | 112 | 1040 | 300x1500 | 142 | 542 | 640 |

Notes :

- 1) The rated load capacity is a designed value calculated based on the rated load center. For the actual overall capacity, please consult the forklift manufacturer.
- 2) Includes 360° rotation in both directions, two (2) additional hydraulic circuits are required from forklift.
- 3) The listed models are ANTWELL's standard product types; tailored solutions are available to meet specific operational requirements.
- 4) Rotating functionality can be added.

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T-series Tire Clamps

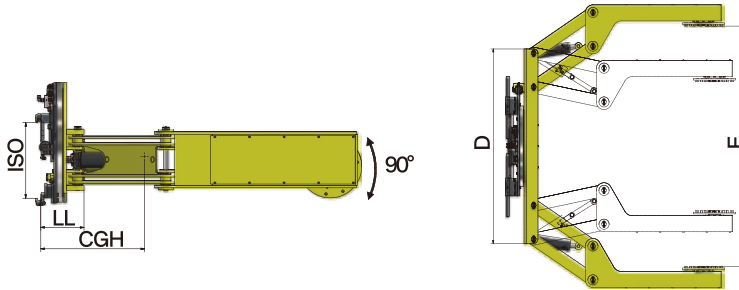


| Model No. | Capacity / Load Center (kg/mm) | Mounting Class (ISO) | Opening Range (mm) | Arm Length (mm) | Arm Thickness (mm) | Frame Width (mm) | Rotation angle | Effective Thickness (mm) | Horizontal Center of Gravity (mm) | Weight (kg) |
|---------------|--------------------------------|----------------------|--------------------|-----------------|--------------------|------------------|----------------|--------------------------|-----------------------------------|-------------|
| 8TFCS35-N3011 | 3500 | Pin-type | 1100-3000 | 1120 | 65 | 2000 | 360° | 569 | 412 | 1296 |

Notes :

- 1) The rated load capacity is a designed value calculated based on the rated load center. For the actual overall capacity, please consult the forklift manufacturer.
- 2) Includes sideshifting and rotating functions. One (1) additional hydraulic circuit and a 12V three-way valve are required from the forklift.
- 3) The listed models are ANTWELL's standard product types; tailored solutions are available to meet specific operational requirements.

A-series Tire Clamps

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(4)**


| Model No. | Capacity / Load Center (kg/mm) | Mounting Class (ISO) | Opening Range (mm) | Tire Diameter (mm) | Frame Width (mm) | Rotation angle | Sideshifting Distance (mm) | Forward Tilt Angle | Effective Thickness (mm) | Horizontal Center of Gravity (mm) | Weight (kg) |
|---------------|--------------------------------|----------------------|--------------------|--------------------|------------------|----------------|----------------------------|--------------------|--------------------------|-----------------------------------|-------------|
| 6SPTR40-C002 | 2500/2000 | ISO 4A | 1560-2900 | 1610-2850 | 2340 | +/-13° | ±150 | 90° | 244 | 850 | 2250 |
| 6SPTR40-D003 | 2500/2000 | ISO 5A | 600-2800 | 650-2750 | 2300 | 360° | ±150 | 90° | 390 | 889 | 2420 |
| 6SPTR40-D1834 | 4000/1800 | ISO 5A | 1300-3610 | 1350-3550 | 2400 | +/-13° | ±150 | 360° | 650 | 1150 | 3075 |
| 6BPTR40-N230 | 2500/1680 | Pin-type | 1300-3000 | 1350-2950 | 2385 | 360° | ±150 | 360° | 337.5 | 772 | 1970 |
| 6BPTR50-N232 | 3000/1800 | Pin-type | 1050-3200 | 1100-3100 | 2100 | 360° | 0 | 360° | 410 | 950 | 2600 |
| 6SPTR80-C025 | 3000/1250 | ISO 4A | 1200-2500 | 1250-2400 | 1470 | 360° | ±150 | 90° | 400 | 800 | 1850 |
| 6SPTR100-N038 | 3300/1800 | Pin-type | 2300-3800 | 2350-3700 | 2385 | +/-13° | 0 | 90° | 650 | 1150 | 3950 |
| 6BPTR160-E244 | 6000/2250 | ISO 5A | 1250-4400 | 1300-4300 | 2900 | 360° | 0 | 360° | 450 | 860 | 5750 |
| 6SPTR220-N046 | 10000/2900 | Pin-type | 1950-4600 | 2000-4500 | - | 360° | ±150 | 90° | 750 | 1150 | 7550 |

Notes :

- 1) The rated load capacity is a designed value calculated based on the rated load center. For the actual overall capacity, please consult the forklift manufacturer.
- 2) Includes Sideshifting and Rotating functions, four (4) additional hydraulic circuits are required from forklift.
- 3) The listed models are ANTWELL's standard product types; tailored solutions are available to meet specific operational requirements.



11b

Tire Grippers



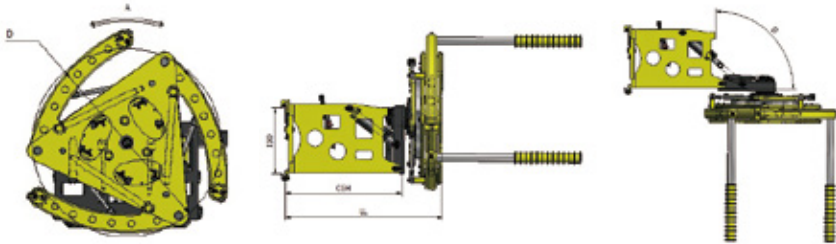
Functions & Applications

The Tire Gripper is specifically designed for the installation and removal of large construction machinery tires. Its three rugged, cylindrical bars provide stable tire engagement while facilitating operation in confined spaces. The 90 ° forward tilt functionality allows users to efficiently pick up tires from the ground. Additionally, the integrated camera system enables precise tire positioning, enhancing operational accuracy for the operator.



Tire Grippers

11b

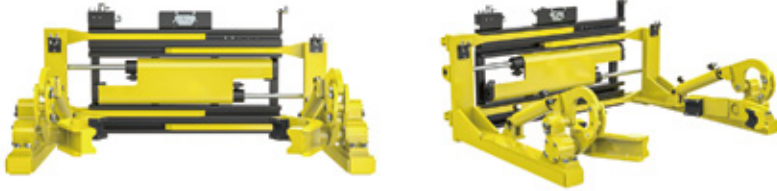


| Model No. | Capacity / Load Center (kg/mm) | Mounting Class (ISO) | Swing Angle | Tire Diameter (mm) | Sideshifting Distance (mm) | Forward Tilt Angle | Effective Thickness (mm) | Horizontal Center of Gravity (mm) | Weight (kg) |
|--------------|--------------------------------|----------------------|-------------|--------------------|----------------------------|--------------------|--------------------------|-----------------------------------|-------------|
| 6SPTR10-B024 | 1000/900 | ISO 3A | 30° | 1200-2400 | ±100 | 0°-90° | 1210 | 939 | 1110 |
| 6SPTR15-C027 | 1500/900 | ISO 4A | 30° | 1350-2700 | ±100 | 0°-90° | 1300 | 945 | 1210 |
| 6SPTR18-C028 | 1800/900 | ISO 4A | 30° | 1350-2800 | ±150 | 0°-90° | 1420 | 1045 | 1580 |

Notes:

- 1) The rated load capacity is a designed value calculated based on the rated load center. For the actual overall capacity, please consult the forklift manufacturer.
- 2) Includes Sideshifting and Tilting functions, four (4) additional hydraulic circuits are required from forklift. Solenoid valves can be added as needed to reduce the required hydraulic circuits based on actual conditions and requirements.
- 3) The listed models are ANTWELL's standard product types; tailored solutions are available to meet specific operational requirements.

Steel Wheel Clamps



Functions & Applications

The steel wheel clamp ensures safe and efficient forward tilting of steel wheels and supports handling and tilting of various loads with interchangeable attachments.

Structural Features

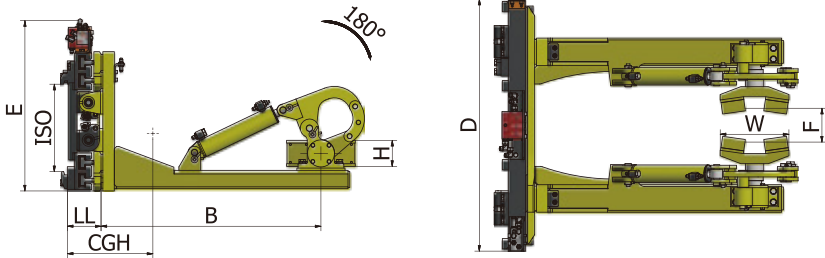
- **Self-Lubricating Support:** Clamp arm movement components are equipped with self-lubricating supports for secure and reliable operation.
- **Enhanced Bushings:** Specially designed bushings with twice the hardness of standard bronze bushings extend service life. The self-lubricating feature eliminates the need for regular greasing, protecting the pins from wear and preventing damage caused by rapid bushing wear.
- **Replaceable Rubber Blocks:** Damaged rubber blocks can be replaced individually, offering a cost-effective and practical solution.
- **All-Steel Frame:** High-strength, integrated steel frame design meets the demands of intensive operations.

Flow and Pressure Requirements

| Model No. | Min. Flow Rate | Recommended Flow Rate | Max. Flow Rate | Max. Pressure |
|-----------|----------------|-----------------------|----------------|---------------|
| 6FTR10 | 15 LPM | 25 LPM | 40 LPM | 160 Bar |
| 6FTR15 | 15 LPM | 25 LPM | 40 LPM | 160 Bar |

Steel Wheel Clamps

11c



| Model No. | Capacity / Load Center (kg/mm) | Opening Range (mm) | Mounting Class (ISO) | Arm Length (mm) | Pad Dimensions (mm) | Frame Height (mm) | Frame Width (mm) | Effective Thickness (mm) | Horizontal Center of Gravity (mm) | Weight (kg) |
|-------------|--------------------------------|--------------------|----------------------|-----------------|---------------------|-------------------|------------------|--------------------------|-----------------------------------|-------------|
| 6FTR15-A101 | 1500 /500 | 200-1600 | ISO 2A | 1160 | 300x114 | 780 | 1100 | 147 | 147 | 602 |
| 6FTR15-A102 | 1500 /500 | 200-1600 | ISO 2A | 960 | 300x114 | 780 | 1100 | 147 | 147 | 582 |
| 6FTR15-B101 | 1500 /500 | 200-1600 | ISO 3A | 1160 | 300x114 | 780 | 1100 | 147 | 147 | 604 |

Notes :

- 1) The rated load capacity is a designed value calculated based on the rated load center. For the actual overall capacity, please consult the forklift manufacturer.
- 2) Includes Sideshifting and Rotating functions, four (4) additional hydraulic circuits are required from forklift.
- 3) The listed models are ANTWELL's standard product types; tailored solutions are available to meet specific operational requirements.

