

3D Module Welding Fixture

— Smart Weld Strong Hold

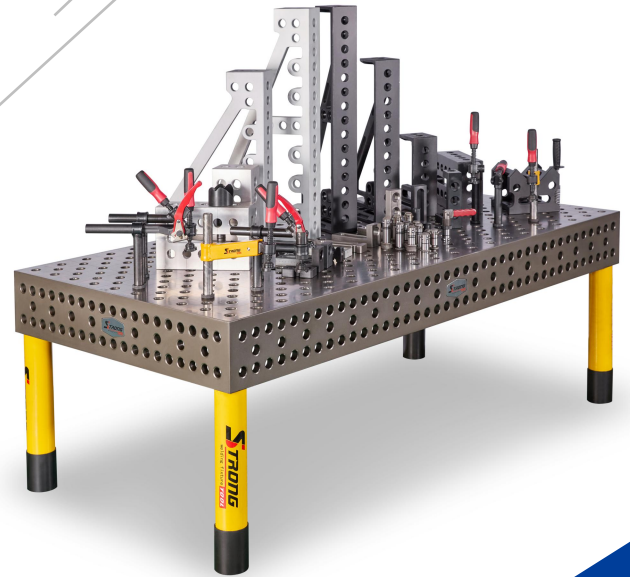


Shanghai Welding & Cutting Engineering Co., Ltd.



About SHWG

Founded in 1997, Shanghai Welding & Cutting Engineering Co., Ltd. (SHWG) has spent nearly three decades setting the standard for industrial welding fixtures in China. As an ISO 9001:2015 certified company and a proud Council Member of the Shanghai Welding Association (SWA), we don't just manufacture equipment; we provide the foundational tools that make precision manufacturing possible.



StrongTool 3D Modular Welding Fixtures

This catalogue highlights our core product: StrongTool 3D Modular Welding Fixture System. Built on a standardized hole system, these tables are engineered to meet practical industrial demands:



Highly Flexible:

The modular design enables fast reconfiguration, significantly reducing setup time for various welding tasks.



Outstanding Durability:

Manufactured with wear-resistant and anti-corrosion materials, our fixtures deliver a long service life even in harsh working environments.



Reliable Positioning:

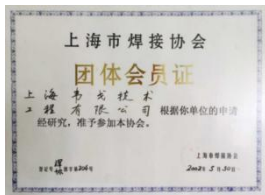
Accurate positioning minimizes welding errors and ensures a higher qualification rate for your final products.



Safe and Efficient:

An ergonomic design prioritizes operator safety while improving overall workflow efficiency.

Certifications & Qualifications



Group Member
Shanghai Welding Association



Council Member
Shanghai Welding Association



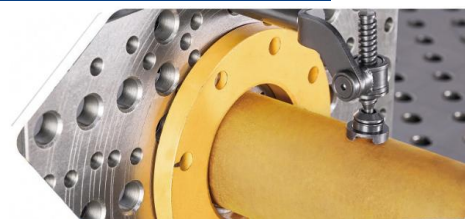
Quality Management
System Certificate
ISO 9001:2015



Quality Management
System Certificate
ISO 9001:2015 (English)



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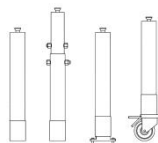
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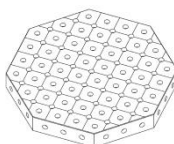
Table Support 021 075 102



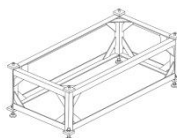
Hydraulic Lift 023 076



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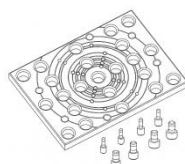
Frame support 025



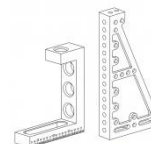
Rail system 026



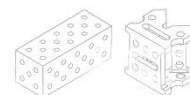
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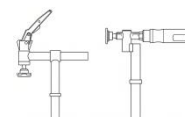
Stop 044 084 111



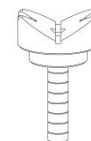
Bolt 049 087 114



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Why Choose Us



1. Diverse Modular System

We provide one-stop procurement solutions designed for dynamic production needs

□ Comprehensive Standard & Custom

Lineup: As an original manufacturer, our core portfolio features complete D28, D22, and D16 series hole-type worktables and a full range of accessories. To meet highly specific operational requirements, we also provide fully customized groove-type and combined hole-groove worktables.



□ **Targeted Material Selection:** We offer precise material matching for different components. Worktables are available in Q355, high-strength alloy steel, and stainless steel. For accessories, we provide an even broader selection, including lightweight aluminum alloys and nylon (such as nylon clamp heads) to ensure optimal gripping without damaging your workpieces.



□ **Interchangeable & Flexible:** Our modular architecture enables rapid reconfiguration. With hundreds of positioning modules, clamps, and locking pins, you can easily create thousands of combinations to reduce downtime and seamlessly adapt to any project scale



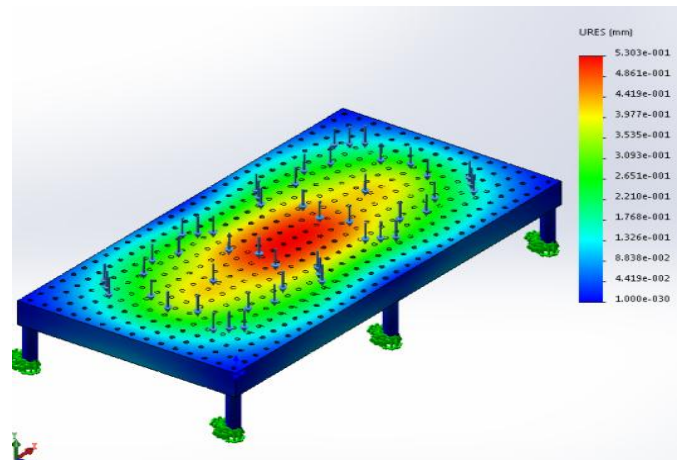
Why Choose Us

2. Quality & Durability

Our operations strictly comply with the ISO 9001:2015 Quality Management System, ensuring standardized excellence from raw material selection to final delivery.

▣ **IT7-Precision Machining:** We strictly control dimensional accuracy in every procedure, achieving an IT7 machining precision grade. This guarantees seamless modular assembly and uniform accuracy across every fixture we produce.

▣ **Super-Hardened Surfaces:** Our high-strength alloy steel welding tables undergo advanced hardening treatments to achieve a surface hardness of HRC60, which makes the tables highly resistant to deformation, wear, and corrosion, significantly extending their service life.



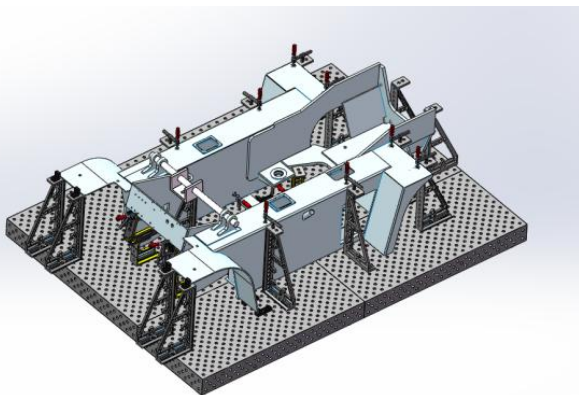
3. Your Trusted Partner

We are more than just a supplier; we are your reliable long-term partner

▣ **Proven R&D Experience:** With over 20 years of expertise, we continuously refine our products. Every welding table design is validated through FEA and simulation testing, ensuring reliable load capacity and long-term dimensional stability even under heavy use.

▣ **Extensive Application Expertise:** Leveraging hands-on experience across diverse industries, we design complete tooling solutions. Our engineering team guides you on clamping sequences, welding procedures, and workshop layout to optimize your entire production flow.

▣ **Worry-Free After-Sales Support:** We provide installation, commissioning, and operation training so your team can hit the ground running and maintain high productivity.



Applications

Construction Machinery

Heavy Machinery Lifting Arms

Our Solution:

We provide a heavy-duty 3D modular welding fixture system combining modular hole-platforms, adjustable positioning jigs, and angle supports. This allows operators to easily build a customized setup that perfectly matches the complex contours of any lifting arm, movable arm (boom), or bucket arm (dipper).

Key Benefits:

- ❑ **Eliminating Thermal Distortion & Shifting:** Welding massive, heavy-duty arms generates intense heat that causes parts to warp or shift (dislocation). Our highly rigid platforms and strong clamping components counteract this thermal stress, locking fitted rod parts firmly in place.
- ❑ **Guaranteed Dimensional Accuracy:** Prevents the severe dimensional deviation commonly seen in heavy boom welding. Every finished arm perfectly meets strict tolerances, drastically reducing costly rework and ensuring smooth final assembly.
- ❑ **Rapid Setup & Calibration:** Instead of relying on expensive, dedicated fixtures for different boom types, operators can quickly calibrate positioning references and adjust the modular jigs, saving immense time and tooling costs.



Applications

Construction Machinery

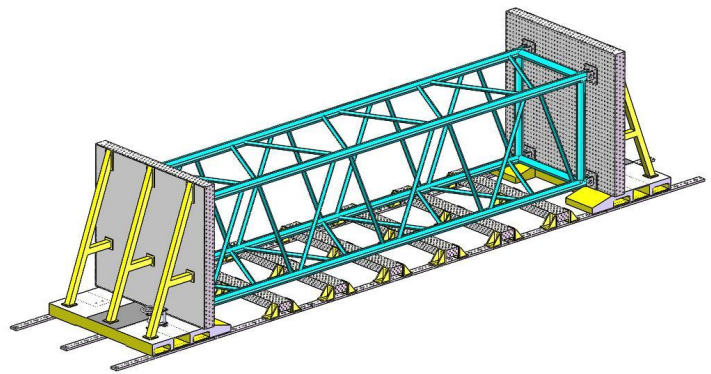
Crane Tower Booms & Base Joints

Our Solution:

We provide a heavy-duty 3D flexible fixture system (D28 series) utilizing a core platform with adjustable positioning modules. This dynamic setup is specifically designed to handle the massive scale and strict accuracy requirements of tower booms.

Key Benefits:

- Distortion Control on Extra-Long Parts:** Exceptionally long tower booms are highly prone to heat deformation during welding. Our rigid worktable effectively absorbs and counteracts thermal stress, keeping even the longest booms perfectly straight.
- Guaranteed Centering Precision:** Securing the base joint requires highly accurate "four-corner centering" to ensure safe assembly. Our system ensures perfect alignment, keeping the critical dimensional pass rate steadily above 99.5%.
- Fast Changeovers & Cost Savings:** Production lines often require frequent switching between different boom lengths, making traditional dedicated fixtures too rigid and expensive. One Strongtool flexible system easily adapts to various lengths, reducing setup time by over 70% and saving significant long-term tooling costs.



Solution Design



On-Site Application

Applications

Rail Vehicles

Railway Locomotives and Carriages

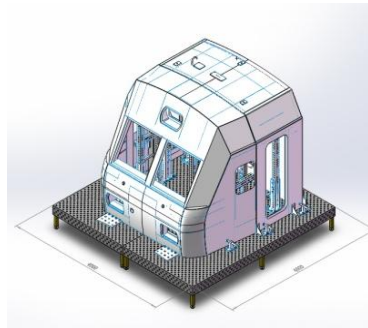
Our Solution:

The expandable 3D modular welding platform connects multiple precision tables with high-strength positioning pins, creating one seamless, oversized work surface matched to your production dimensions.



Key Benefits:

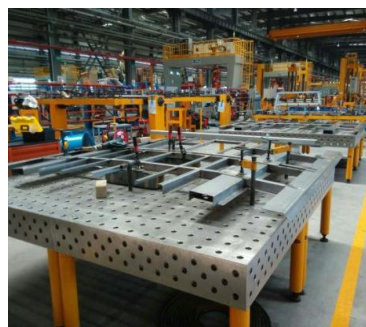
- ❑ **Expandable for Massive Workpieces:** Oversized parts like locomotive heads and large carriage sections easily exceed the size limits of a single table. Our system connects flexibly like a jigsaw puzzle, providing highly stable support for components of any scale.
- ❑ **Versatile & Quick Reconfiguration:** Train manufacturing involves vastly different structures. Our standard modules (supports, angle and clamps) can be quickly swapped. The exact same system that holds complex, curved skins for a locomotive head can be rapidly reconfigured to weld flat vehicle underframes and side beams.
- ❑ **Smart Digital Design:** To eliminate guesswork and trial-and-error, we run virtual layouts and assembly simulations based on your 3D product models in advance. This ensures you get the most optimized, ready-to-use fixture setup before the physical work even begins.



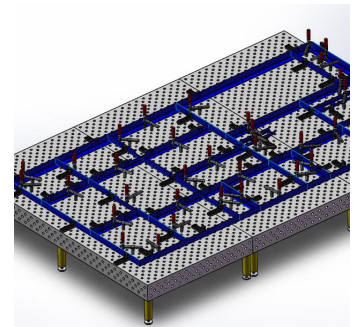
Solution Design



On-Site Application



On-Site Application



Solution Design

Applications

Automotive

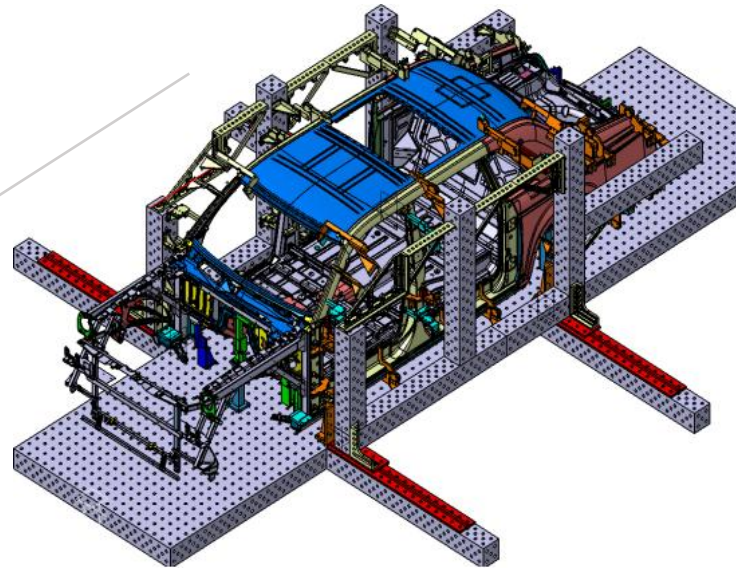
Automotive R&D

Our Solution:

We provide highly versatile 3D modular welding fixtures designed for rapid assembly and reconfiguration. This system is the perfect fit for new vehicle R&D trial production, product upgrades, and multi-variety, small-batch manufacturing.

Key Benefits:

- ▣ Accelerated R&D Cycles: Traditional custom fixtures slow down vehicle development. Our system lets engineers quickly set up positioning benchmarks without dedicated tooling, cutting trial production time significantly.
- ▣ Mastering EV Aluminum Welding: Thin-walled aluminum battery boxes and EV frames are prone to heat distortion. Our fixtures flexibly adapt to different housing sizes and support both friction stir and arc welding, keeping distortion under control during structural validation.
- ▣ Lightning-Fast Changeovers: Frequent product switching usually causes long production downtimes. Our infinitely reconstructable system drastically shortens setup and debugging time, allowing operators to switch between different cabinet models seamlessly and boost overall output.



Applications

Construction Machinery

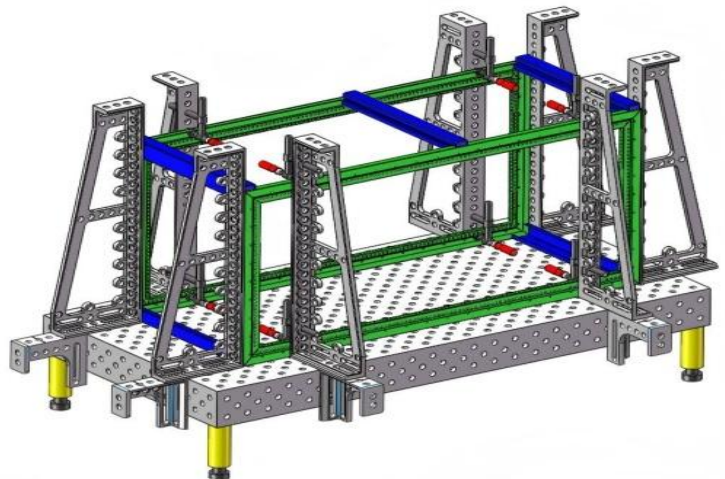
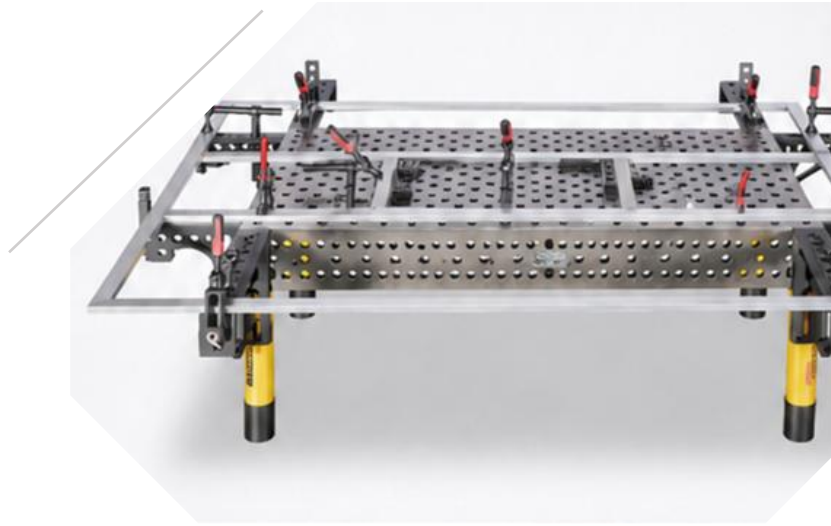
Heavy Machinery Lifting Arms

Our Solution:

We offer a highly versatile 3D modular welding fixture system that can be rapidly assembled to fit cabinets and chassis of any size or shape. It provides full-precision support for both high-volume mass production and highly customized, one-off jobs.

Key Benefits:

- Preventing Warpage & Uneven Gaps:** Welding thin plates and frame parts often leads to thermal distortion, causing perfectly square frames to warp and assembly gaps to become uneven. Our system firmly locks plates in place, guaranteeing perfectly square frames and uniform gaps for final assembly.
- Eliminating Custom Tooling Costs:** Cabinet manufacturing involves constantly changing dimensions and custom designs. Instead of building dedicated fixtures for every new cabinet model, our modular components can be instantly adjusted to fit various shape, saving massive tooling costs.
- Lightning-Fast Changeovers:** Frequent product switching usually causes long production downtimes. Our system drastically shortens setup and debugging time, allowing operators to switch between different cabinet models seamlessly and boost overall output.



Solution Design



On-Site Application

Applications

Pipe

Piping Systems & Flange Fittings

Our Solution:

We offer a highly versatile 3D modular welding fixture system equipped with standard flange positioning plates. This modular structure allows for rapid assembly and precise clamping to accommodate various pipe diameters and flange configurations.

Key Benefits:

□ Perfect Alignment & Distortion Control:

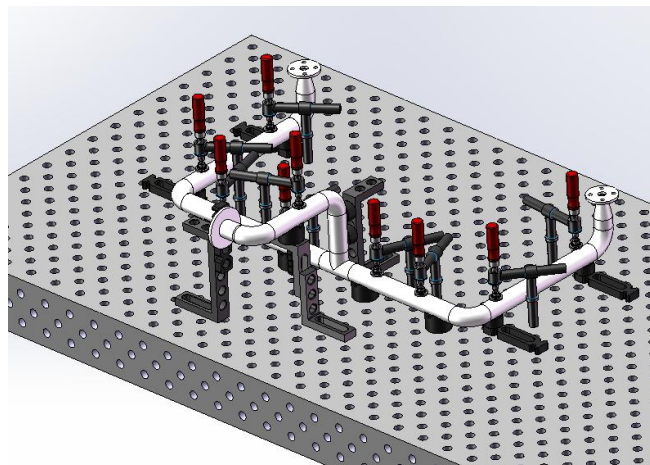
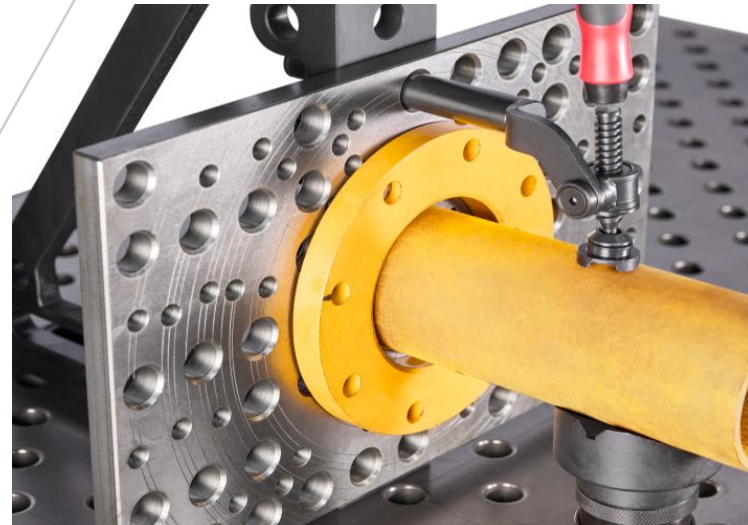
Welding pipe butt joints and flanges often causes heat distortion and displacement, which compromises the pipe's seal. Our positioning plates and clamps securely lock the joints in place, effectively preventing any shifting. This ensures completely accurate pipe alignment and perfectly neat weld seams.

□ Eliminating Custom Fixture Costs:

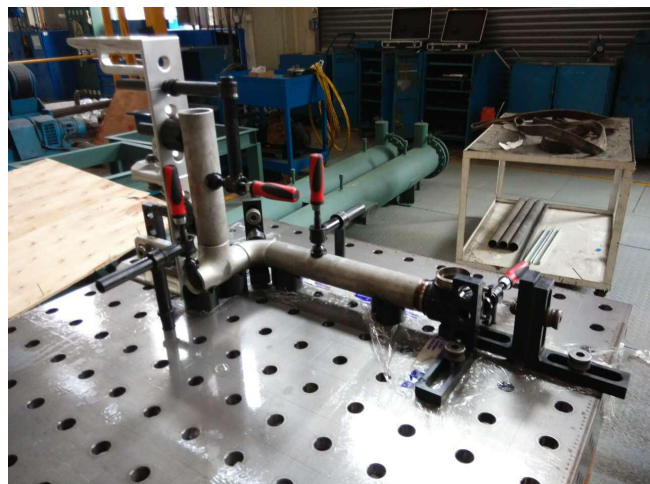
Pipe fabrication involves countless pipe sizes, routing angles, and flange types. Instead of purchasing dedicated fixtures for every specific pipe combination, our versatile system easily adapts to any setup, drastically cutting your custom tooling costs.

□ Rapid Setup & Calibration:

Instead of relying on expensive, dedicated fixtures for different boom types, operators can quickly calibrate positioning references and adjust the modular jigs, saving immense time and tooling costs.



Solution Design



On-Site Application

Applications

Structural Components

Our Solution:

We provide the ultimate cost-effective 3D modular welding fixture system. Designed for extreme versatility, our standard modules can be flexibly assembled and rapidly reconfigured to position and firmly clamp workpieces of any irregular shape.



Key Benefits:

- ❑ **Eliminates costs:** Processing of diverse irregular workpieces, Conventional solutions require dedicated fixtures, Customization lead time of several weeks, and occupies substantial warehouse space. This modular system instantly adapts to multiple specifications, Eliminates custom-fixture procurement costs, Long delivery cycles and warehouse waste.
- ❑ **Perfectly for High-Mix, Low-volume production:** Multi-product, small-batch lines commonly face lengthy tooling setup; The system can be reconfigured quickly, An economical and flexible choice for frequent production-line changeovers.
- ❑ **Consistent Quality on Irregular Parts:** Secure clamping of irregular components has long been an industry challenge, Highly prone to inconsistent welding quality. This tooling provides high positioning accuracy, Simple clamping operation, Ensures consistent welding quality, Significantly improves overall workshop efficiency.



Applications

Robotic Welding Automation

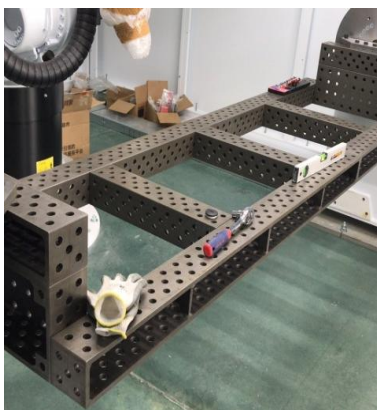
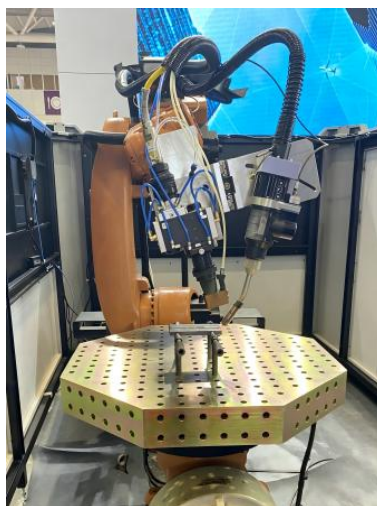
Our Solution:

High precision 3D modular tooling is the core process foundation of robotic welding stations. This system assembles quickly, Flexible positioning, Upgrades conventional rigid automation into a flexible intelligent welding cell for multiple product types.



Key Benefits:

- Guaranteeing Accuracy:** Robots weld strictly by programmed coordinates; any slight fixture deviation ruins the entire batch. Our high-precision system ensures rock-solid positioning and consistent clamping, guaranteeing that the robot hits the exact right spot every single time for stable forming quality.
- Maximizing Automation Uptime:** Switching production lines in an automated setup usually involves massive downtime for unbolting and swapping heavy dedicated fixtures. Our modular design allows for rapid adjustments and fast changeovers, keeping your expensive robots welding instead of waiting.
- Consistent Quality on Irregular Parts:** Secure clamping of irregular components has long been an industry challenge, Highly prone to inconsistent welding quality. This tooling provides high positioning accuracy, Simple clamping operation, Ensures consistent welding quality, Significantly improves overall workshop efficiency.

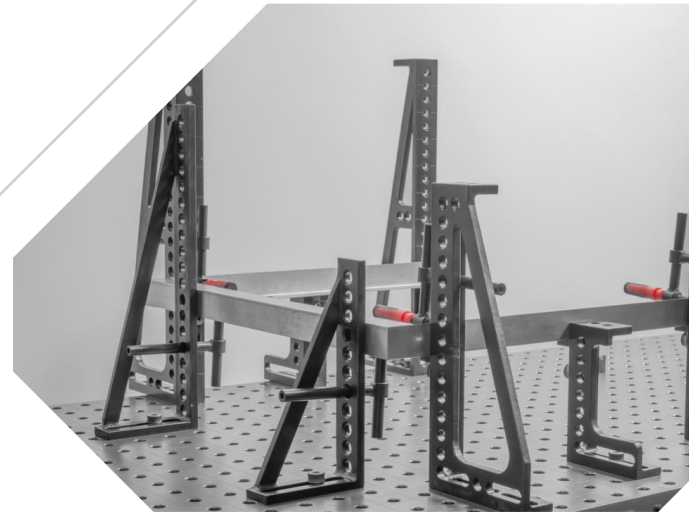


Selection Guide

Proper selection is critical to ensuring workpiece positioning accuracy, welding stability, production efficiency and service life of equipment.

1. Select the bore series

The welding tables are available in three standard bore series— $\Phi 28$ mm, $\Phi 22$ mm and $\Phi 16$ mm—covering different load levels and workpiece sizes.



	Description	Workpiece and load requirements	Typical applications
 $\Phi 28$	High structural rigidity and load-bearing capacity. Resists heavy stress and deformation.	Large, heavy, and complex workpieces.	Heavy machinery, vehicle frames, thick steel plates, and large equipment bases.
 $\Phi 22$	The perfect balance of rigidity and flexibility. Covers over 80% of standard welding scenarios.	Medium to small components.	Automotive parts, sheet metal, cabinets, brackets, and general mechanical fittings.
 $\Phi 16$	Compact, highly accurate, and designed for flexible operation in tight spaces.	Lightweight and delicate workpieces.	Thin plates, small diameter pipe fitting, tubular frames, precision components

2. Configure Your Components

- ❑ **Positioning Parts (Angles & Stops):** The framework for your workpiece. Mix and match these elements based on the contour, complexity, and specific datum points of your design.
- ❑ **Bolts (The Core Connection):** The essential safeguard against module loosening and dimensional deviation.
 - ❑ Always use at least two bolts per module for maximum stability. We recommend a combination of standard and quick-release pins for faster setups.
- ❑ **Clamps:** Essential for counteracting thermal distortion and closing assembly gaps. Select your clamps based on workpiece thickness, shape, and the clearance needed for your welding torch.

3. Complete Fixture Formula

Welding Table + Positioning Components + Locking Pins + Clamps + Accessories = Complete Fixture Solution

Need a Reference Solution?

We can provide application drawings or have our engineering team develop a dedicated technical solution for your project.

28 3D Welding Table

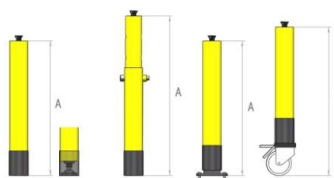
Material & Surface Hardening

	Basic Type	Dimension Type	Hardened Type HRC 35	Hardened and Dimension Type HRC 35	Super-Hard Type HRC 60	Stainless Steel 304
General grid hole and line 100x100						
Profit diagonal grid hole 100x100						
Expert grid hole 50x50						

Basic	Carbon Steel Q355
Dimensioned	Carbon Steel Q355
Hardened	Carbon Steel Q355
Dimensioned & Hardened	Carbon Steel Q355
Super-Hardened	High-Performance Alloy Steel
Stainless Steel	304 Stainless Steel

Table Support

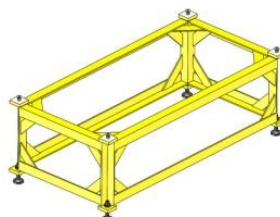
The table support comes in various styles.



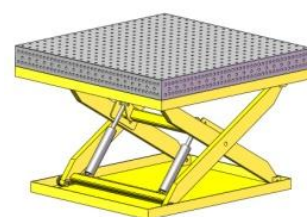
Leg System



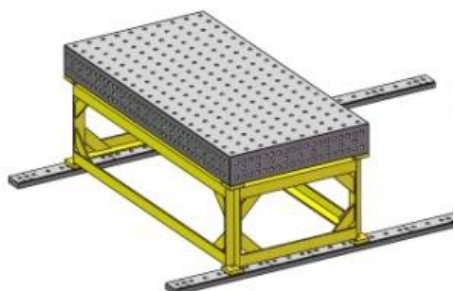
Connection
Accessories



Frame Support



Hydraulic Lifting Table

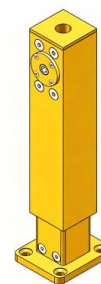


Mounting Base

NEW

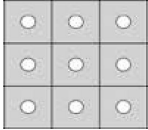
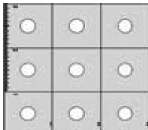
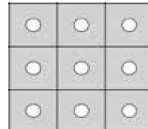
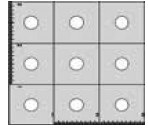
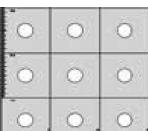
NEW Adjustable Lifting Leg

This newly developed adjustable lifting support foot is specifically designed for 3D flexible welding tables. It serves as an innovative solution to the challenges of workpiece height adaptation and leveling support.



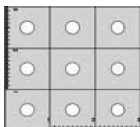
28

3D Table (General Lane)

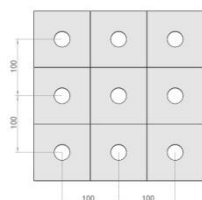
Image	SKU Code	Dimensions(mm)	Description	Net weight(kg)
 Basic Type	28-01010-000	1000×1000×200	3D Q355 steel table, grid hole 100x100mm.	310
	28-01212-000	1200×1200×200		442
	28-01510-000	1500×1000×200		485
	28-01515-000	1500×1500×200		673
	28-02010-000	2000×1000×200		578
	28-02412-000	2400×1200×200		812
	28-03015-000	3000×1500×200		1230
	28-04020-000	4000×2000×200		2150
 Dimensioned Type	28-01010-100	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, grid hole 100x100mm.	310
	28-01212-100	1200×1200×200		442
	28-01510-100	1500×1000×200		485
	28-01515-100	1500×1500×200		673
	28-02010-100	2000×1000×200		578
	28-02412-100	2400×1200×200		812
	28-03015-100	3000×1500×200		1230
	28-04020-100	4000×2000×200		2150
 Hardened Type HRC 35	28-01010-020	1000×1000×200	3D Q355 steel table, hardened surface, HRC 35 grid hole 100x100mm.	310
	28-01212-020	1200×1200×200		442
	28-01510-020	1500×1000×200		485
	28-01515-020	1500×1500×200		673
	28-02010-020	2000×1000×200		578
	28-02412-020	2400×1200×200		812
	28-03015-020	3000×1500×200		1230
	28-04020-020	4000×2000×200		2150
 Hardened & Dimensioned type HRC 35	28-01010-120	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, hardened surface, HRC 35 grid hole 100x100mm.	310
	28-01212-120	1200×1200×200		442
	28-01510-120	1500×1000×200		485
	28-01515-120	1500×1500×200		673
	28-02010-120	2000×1000×200		578
	28-02412-120	2400×1200×200		812
	28-03015-120	3000×1500×200		1230
	28-04020-120	4000×2000×200		2150
 Super-hardened type HRC 60	28-01010-130	1000×1000×200	3D High Alloy steel table, with 4 sides mm scale, hardened surface HRC 60 grid hole 100x100mm.	310
	28-01212-130	1200×1200×200		442
	28-01510-130	1500×1000×200		485
	28-01515-130	1500×1500×200		673
	28-02010-130	2000×1000×200		578
	28-02412-130	2400×1200×200		812
	28-03015-130	3000×1500×200		1230
	28-04020-130	4000×2000×200		2150

Other non-standard sizes can be customized.

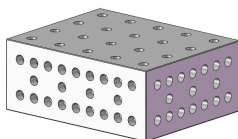
28 3D Table (General Lane)

Image	SKU Code	Dimensions(mm)	Description	Net weight(kg)
 Stainless Steel type	28-01010-140	1000×1000×200	3D 304 stainless steel table, with 4 sides mm scale, grid hole 100x100mm.	310
	28-01212-140	1200×1200×200		442
	28-01510-140	1500×1000×200		485
	28-01515-140	1500×1500×200		673
	28-02010-140	2000×1000×200		578
	28-02412-140	2400×1200×200		812
	28-03015-140	3000×1500×200		1230
	28-04020-140	4000×2000×200		2150

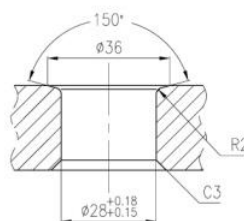
Standard grid hole 100x100mm.



Four Side



Protective filleted corner



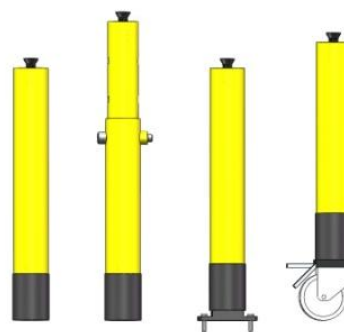
Super-hardened High Alloy Steel HRC60



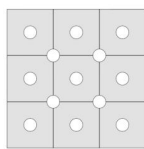
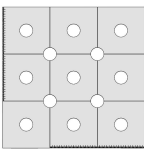
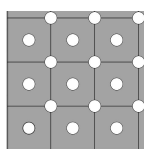
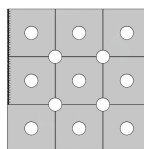
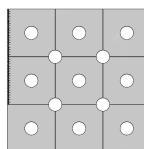
No. of legs

Table size	Qty
1000×1000×200	4
1200×1200×200	4
1500×1000×200	4
1500×1500×200	4
2000×1000×200	4
2400×1200×200	4
3000×1500×200	6
4000×2000×200	6

Leg types



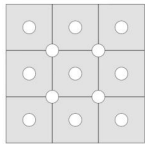
28 3D Table (Profit Lane)

Image	SKU Code	Dimensions(mm)	Description	Net weight(kg)
 Basic Type	P28-01010-000	1000×1000×200	3D Q355 steel table, diagonal grid hole 100x100mm.	292
	P28-01212-000	1200×1200×200		410
	P28-01510-000	1500×1000×200		405
	P28-01515-000	1500×1500×200		650
	P28-02010-000	2000×1000×200		573
	P28-02412-000	2400×1200×200		800
	P28-03015-000	3000×1500×200		1202
	P28-04020-000	4000×2000×200		2045
 Dimensioned Type	P28-01010-100	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, diagonal grid hole 100x100mm.	292
	P28-01212-100	1200×1200×200		410
	P28-01510-100	1500×1000×200		405
	P28-01515-100	1500×1500×200		650
	P28-02010-100	2000×1000×200		573
	P28-02412-100	2400×1200×200		800
	P28-03015-100	3000×1500×200		1202
	P28-04020-100	4000×2000×200		2045
 Hardened Type HRC 35	P28-01010-020	1000×1000×200	3D Q355 steel table, hardened surface, HRC 35 diagonal grid hole 100x100mm.	292
	P28-01212-020	1200×1200×200		410
	P28-01510-020	1500×1000×200		405
	P28-01515-020	1500×1500×200		650
	P28-02010-020	2000×1000×200		573
	P28-02412-020	2400×1200×200		800
	P28-03015-020	3000×1500×200		1202
	P28-04020-020	4000×2000×200		2045
 Hardened & Dimensioned type HRC 35	P28-01010-120	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, hardened surface, HRC 35 diagonal grid hole 100x100mm.	292
	P28-01212-120	1200×1200×200		410
	P28-01510-120	1500×1000×200		405
	P28-01515-120	1500×1500×200		650
	P28-02010-120	2000×1000×200		573
	P28-02412-120	2400×1200×200		800
	P28-03015-120	3000×1500×200		1202
	P28-04020-120	4000×2000×200		2045
 Super-hardened type HRC 60	P28-01010-130	1000×1000×200	3D High Alloy steel table, with 4 sides mm scale, hardened surface HRC 60 diagonal grid hole 100x100mm.	292
	P28-01212-130	1200×1200×200		410
	P28-01510-130	1500×1000×200		405
	P28-01515-130	1500×1500×200		650
	P28-02010-130	2000×1000×200		573
	P28-02412-130	2400×1200×200		800
	P28-03015-130	3000×1500×200		1202
	P28-04020-130	4000×2000×200		2045

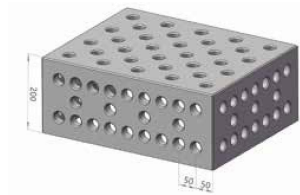
Other non-standard sizes can be customized.

28 3D Table (Profit Lane)

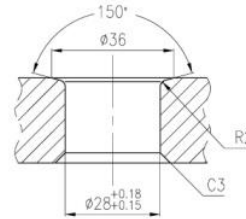
Diagonal grid hole 100x100mm.



Four Side



Protective filleted corner



Super-hardened
High Alloy Steel HRC60



No. of legs

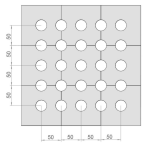
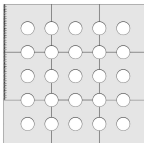
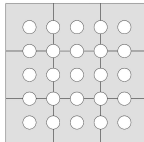
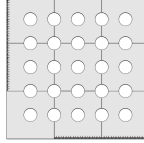
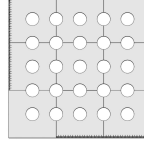
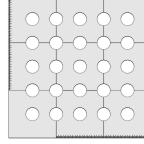
Table size	Qty
1000×1000×200	4
1200×1200×200	4
1500×1000×200	4
1500×1500×200	4
2000×1000×200	4
2400×1200×200	4
3000×1500×200	6
4000×2000×200	6

Leg types



28

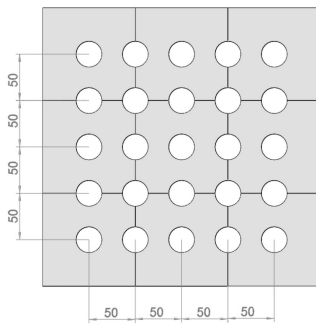
3D Table (Expert Lane)

Image	SKU Code	Dimensions(mm)	Description	Net weight(kg)
 Basic Type	SP28-01010-000	1000×1000×200	3D Q355 steel table, grid hole 50x50mm.	290
	SP28-01212-000	1200×1200×200		380
	SP28-01510-000	1500×1000×200		390
	SP28-01515-000	1500×1500×200		530
	SP28-02010-000	2000×1000×200		500
	SP28-02412-000	2400×1200×200		710
	SP28-03015-000	3000×1500×200		1010
 Dimensioned Type	SP28-01010-100	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, grid hole 50x50mm.	290
	SP28-01212-100	1200×1200×200		380
	SP28-01510-100	1500×1000×200		390
	SP28-01515-100	1500×1500×200		530
	SP28-02010-100	2000×1000×200		500
	SP28-02412-100	2400×1200×200		710
	SP28-03015-100	3000×1500×200		1010
 Hardened Type HRC 35	SP28-01010-020	1000×1000×200	3D Q355 steel table, hardened surface, HRC 35 grid hole 50x50mm	290
	SP28-01212-020	1200×1200×200		380
	SP28-01510-020	1500×1000×200		390
	SP28-01515-020	1500×1500×200		530
	SP28-02010-020	2000×1000×200		500
	SP28-02412-020	2400×1200×200		710
	SP28-03015-020	3000×1500×200		1010
 Hardened & Dimensioned type HRC 35	SP28-01010-120	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, hardened surface, HRC 35 grid hole 50x50mm	290
	SP28-01212-120	1200×1200×200		380
	SP28-01510-120	1500×1000×200		390
	SP28-01515-120	1500×1500×200		530
	SP28-02010-120	2000×1000×200		500
	SP28-02412-120	2400×1200×200		710
	SP28-03015-120	3000×1500×200		1010
 Super-hardened type HRC 60	SP28-01010-130	1000×1000×200	3D High Alloy steel table, with 4 sides mm scale, hardened surface HRC 60 grid hole 50x50mm	290
	SP28-01212-130	1200×1200×200		380
	SP28-01510-130	1500×1000×200		390
	SP28-01515-130	1500×1500×200		530
	SP28-02010-130	2000×1000×200		500
	SP28-02412-130	2400×1200×200		710
	SP28-03015-130	3000×1500×200		1010
 Super-hardened type HRC 60	SP28-04020-130	4000×2000×200		1820

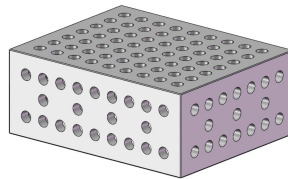
Other non-standard sizes can be customized.

28 3D Table (Expert Lane)

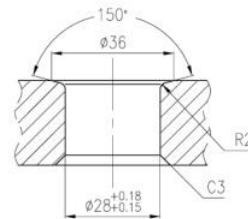
Grid hole 50x50mm.



Four Side



Protective filleted corner



Super-hardened
High Alloy Steel HRC60



No. of legs

Table size	Qty
1000×1000×200	4
1200×1200×200	4
1500×1000×200	4
1500×1500×200	4
2000×1000×200	4
2400×1200×200	4
3000×1500×200	6
4000×2000×200	6

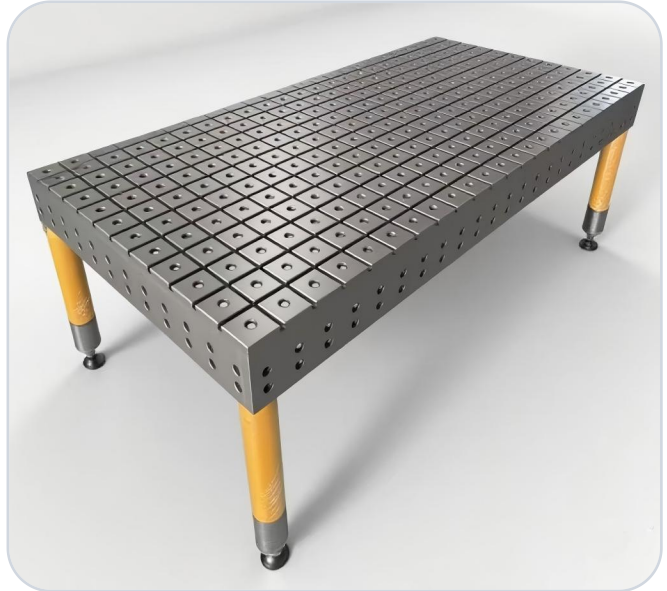
Leg types



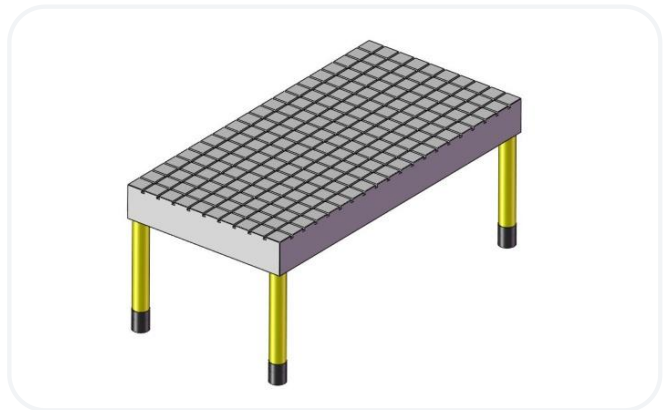
28

Customized Work Table

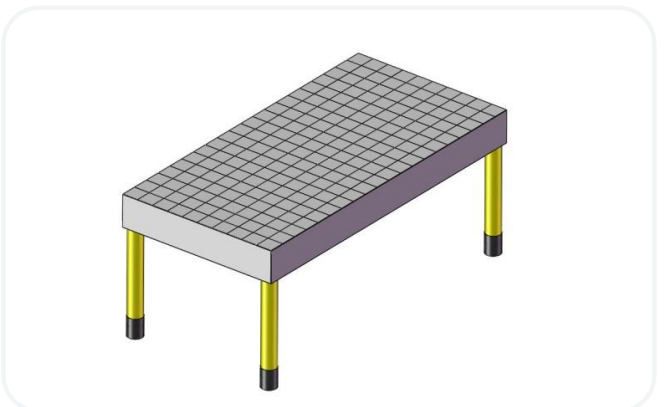
Common Size(mm)	Description
2000×1000×200 2400×1200×200 3000×1500×200	3D Q355 steel table, combined slots and holes



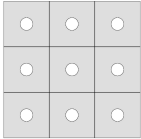
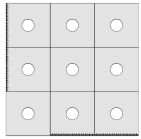
Common Size(mm)	Description
2000×1000×200 2400×1200×200 3000×1500×200	Q355 steel table, with slots



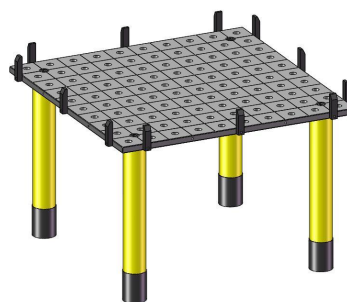
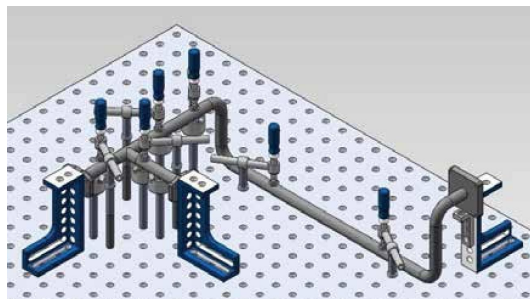
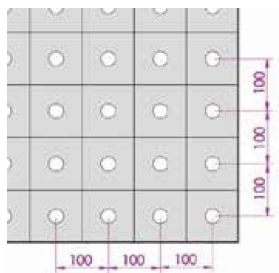
Common Size(mm)	Description
1000×1000×200 1500×1500×200 2000×1000×200 2400×1200×200 3000×1500×200 4000×2000×200	Q355 steel table, with scales, for measurement and assembly



28 2D Table

Image	SKU code	Dimensions(mm)	Description	Net weight(kg)
 Basic Type	28-11010-000	1000x1000x25	2D Q355 steel table, grid hole 100x100mm, with 8 locating pieces	186
	28-11212-000	1200x1200x25		276
	28-11515-000	1500x1500x25		420
	28-12010-000	2000x1000x25		386
	28-12412-000	2400x1200x25		566
 Dimensioned Type	28-11010-000	1000x1000x25	2D Q355 steel table, with 4 sides mm scale, grid hole 100x50mm, with 8 locating pieces.	186
	28-11212-000	1200x1200x25		276
	28-11515-000	1500x1500x25		420
	28-12010-000	2000x1000x25		386
	28-12412-000	2400x1200x25		566

Other non-standard sizes can be customized.

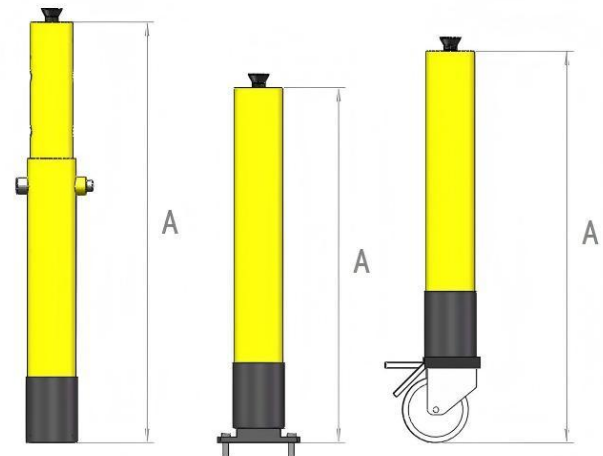
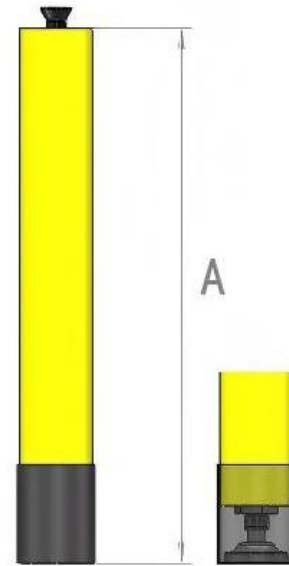


Standard leg L=825 mm
00-B0010-005

28 Table Legs

Description:

- ❑ All types of legs can be adjusted height $\pm 30\text{mm}$.
- ❑ The loads of standard leg or anchored leg are less than or equal to 3 tons.
- ❑ The load of telescoping legs is less than 3 tons.
- ❑ Wheel leg max. load is 500 kg.
- ❑ More dimensions on request.
- ❑ Countersunk screw for installation M24x60.
- ❑ Use Allen wrench SW14.



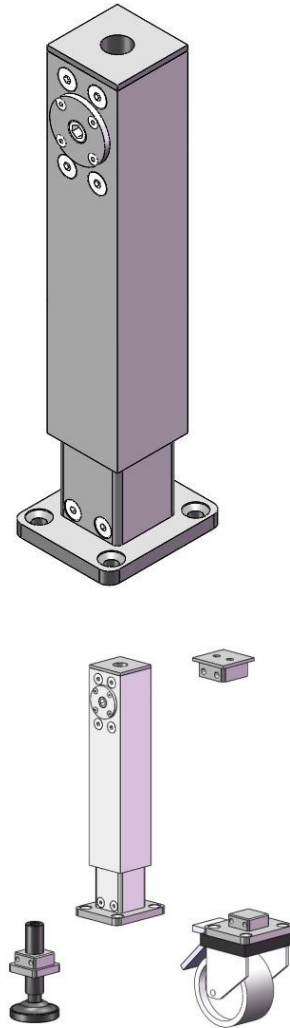
Description	Height (A) mm	Kg	SKU Code
Standard Leg	650 $\pm$ 30	8.44	28-B0010-001
Standard Leg for 2D work table	825 $\pm$ 30	10.0	00-B0010-005
Telescoping Leg	(550-900) $\pm$ 30	10.5	28-B0010-002
Wheel Leg with Brake	650 $\pm$ 30	11.40	28-B0010-003
Wheel Leg without Brake	650 $\pm$ 30	10.0	28-B0010-013
Anchored Leg	650 $\pm$ 30	10.0	28-B0010-004

28

Adjustable Lifting Legs-NEW

Description:

- ❑ Stepless height adjustment for full adaptability.
- ❑ Easily addresses operational challenges from varying workpiece sizes and fixture height differences, cutting auxiliary setup time drastically.
- ❑ Replaceable top flange for compatibility with various worktable connection designs, for easy installation.
- ❑ Interchangeable bottom components (casters / screw feet) to suit different requirements.
- ❑ Height: 350–485 mm.
- ❑ Load capacity (single unit): 300 kg.

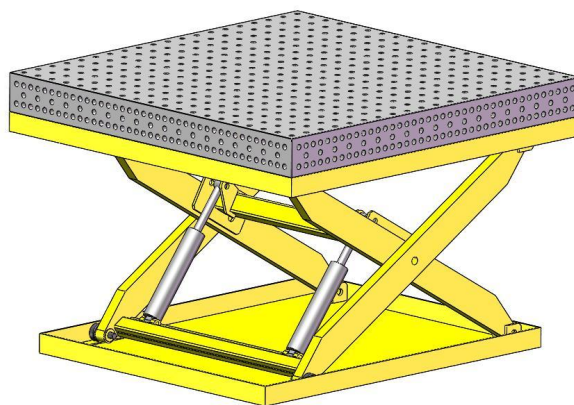


Description	Height mm	Kg	SKU Code
Adjustable Lifting Leg	350-485		00-B0020-000
Adjustable Lifting Leg, with casters	500-635		00-B0020-013
Adjustable Lifting Leg, with braked casters	500-635		00-B0020-003
Adjustable Lifting Leg, with screw feet	430-565		00-B0020-001

28 Hydraulic Lift

Description:

- ❑ Lift to any comfortable working position.
- ❑ Max. load: 2, 3, 4.5 tons; or according to the need of the clients' spec.
- ❑ Equipped with high performance of hydraulic pump station and electric control system.

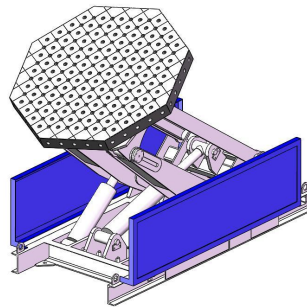
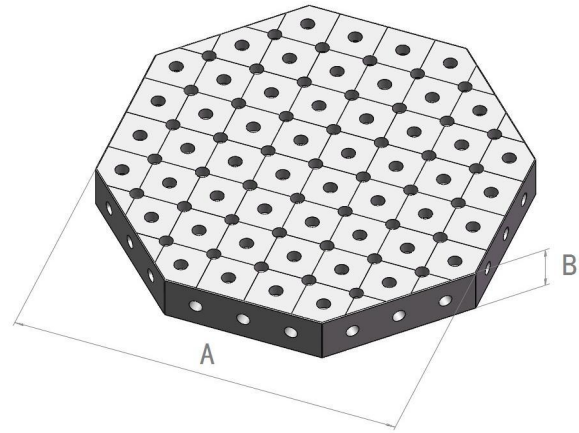


Description	Length× Width mm	Kg	SKU Code
Hydraulic Lifting Table; Max Load: 2 tons; Lifting height: 320–1220 mm	1300×1000	600	HL-00020-000
Hydraulic Lifting Table; Max Load: 3 tons; Lifting height: 350–1550 mm	1800×1800	800	HL-00030-000
Hydraulic Lifting Table; Max Load: 3 tons, Lifting height: 350–1550mm, with casters	1800×1800	800	HL-00030-001
Hydraulic Lifting Table; Max Load: 4.5 tons, Lifting height: 580–2080mm	2500×1500	1500	HL-00045-000

28 Octagonal Platform

Description:

- ❑ Mainly used on a positioner of a robot cell.
- ❑ 9 sides for clamping, the fixture tools are the same as the welding table.
- ❑ Other non-standard sizes can be customized.
- ❑ Connection size of the positioner is needed before order.

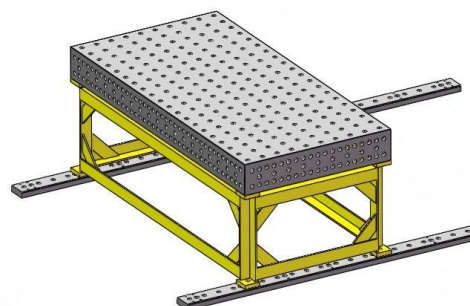
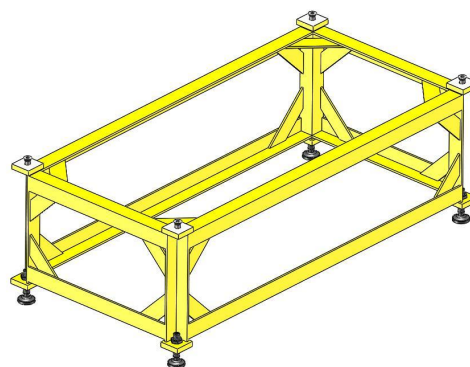


Description	A x B mm	Kg	SKU Code
Octagonal Platform; Diagonal SW 600	SW 600×100	100	28-10600-000
Octagonal Platform; Diagonal SW 600; Hardened	SW 600×100	100	28-10600-020
Octagonal Platform; Diagonal SW 800	SW 800×100	145	28-10800-000
Octagonal Platform; Diagonal SW 800; Hardened	SW 800×100	145	28-10800-020
Octagonal Platform; Diagonal SW 1000	SW 1000×100	240	28-11000-000
Octagonal Platform; Diagonal SW 1000; Hardened	SW 1000×100	240	28-11000-020
Octagonal Platform; Diagonal SW 1200	SW 1200×100	360	28-11200-000
Octagonal Platform; Diagonal SW 1200; Hardened	SW 1200×100	360	28-11200-020

28 Frame Support

Description:

- ❑ The frame support can be used independently for the work table, or combined with rail system to form an extra-long working base surface.
- ❑ The support foot screw can be adjusted height for leveling.
- ❑ Please indicate the purpose when placing orders.

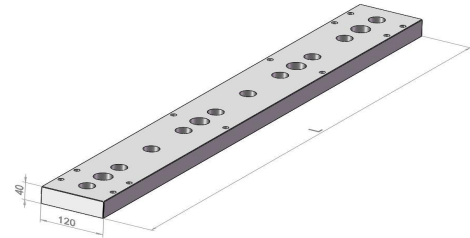


Description	SKU Code	Size mm	Number of feet	Max Load(kg)
Frame Support	28-24010-000	1000 × 1000 × 600	4	6000
Frame Support	28-24012-000	1200 × 1200 × 600	4	6000
Frame Support	28-24015-000	1500 × 1000 × 600	4	6000
Frame Support	28-24015-001	1500 × 1500 × 600	4	6000
Frame Support	28-24020-000	2000 × 1000 × 600	6	6000
Frame Support	28-24024-000	2400 × 1200 × 600	6	6000
Frame Support	28-24030-000	3000 × 1500 × 600	6	10000
Frame Support	28-24040-000	4000 × 2000 × 600	8	10000
Leveling Foot	28-B0100-000	M27 × 140	-	2500

28 Basic Rail and Support

Description:

- ❑ The rail system is applicable to super-large, ultra-long and heavy-duty workpieces.
- ❑ Our professional engineers design customized rail systems for customers.
- ❑ Precision manufacturing and professional installation enable the horizontal accuracy of the rail system to reach 1mm per 10 meters.
- ❑ The max tensile load for uncracked concrete is 1 ton per pin.



Description	SKU Code	Size mm	NW(kg)	Max Load(kg)
Basic Rail	28-23010-000	L 1000×120×40	42	16000 per meter
	28-23020-000	L 2000×120×40	84	
	28-23030-000	L 3000×120×40	126	
	28-23040-000	L 4000×120×40	168	
Fixed Support	00-22020-000	W×H 200×200	14	3500
	00-22040-000	200×400	20	3500
	00-24020-000	400×200	22	5000
	00-24040-000	400×400	34	5000
Sliding Support	00-22020-001	200×200	18	3500
	00-22040-001	200×400	24	3500
	00-24020-001	400×200	34	5000
	00-24040-001	400×400	42	5000

28 Clamping And Adapter Plate

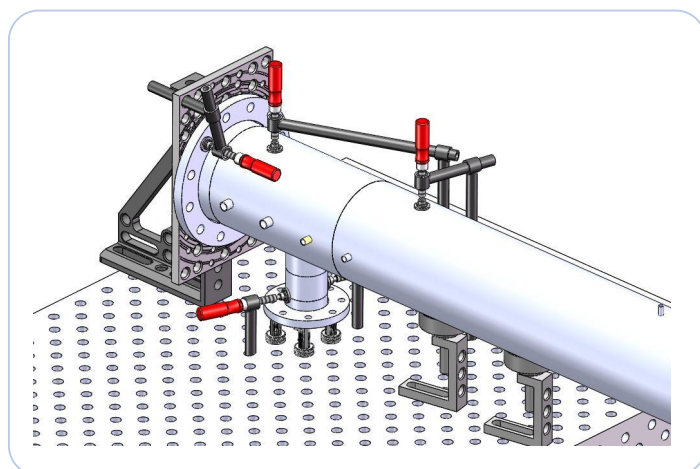
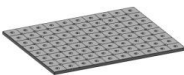


Image	SKU Code	Description	NW (kg)
 Clamping Table	28-11080-000	Common Size: 1000×800×25 mm	140
 Fixed Support	28-13525-000	DIN2633 DN15-DN200 DIN2632 DN200 Size: 350 x 250 x 25mm locking bolt: 2 x Ø 13.8 mm; 2 x Ø 17.8 mm 2 x Ø 21.8 mm; 2 x Ø 25.8 mm	12
 Sliding Support	28-15535-000	DIN2632 DN200-DN400 DIN2633 DN15-DN400 DIN2634 DN200-DN400 DIN2635 DN50-DN400 Size: 550 x 350 x 25mm, locking bolt: 2 x Ø 13.8 mm ;2 x Ø 17.8 mm 2 x Ø 21.8 mm ;2 x Ø 25,8 mm 2 x Ø 29.8 mm ;2 x Ø 32.8 mm 2 x Ø 35.8 mm ;2 x Ø 38.8 mm	30

Other non-standard sizes can be customized.

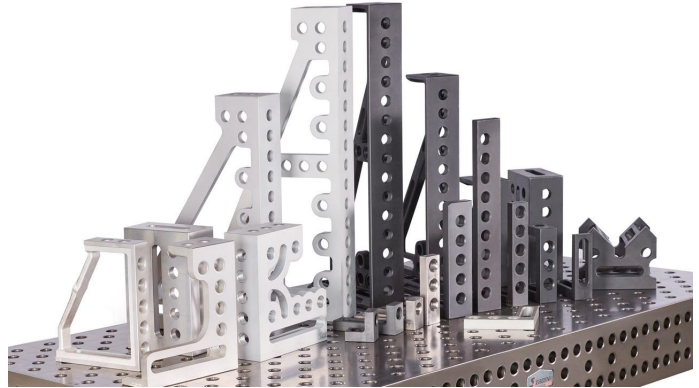
28 Angle

Description:

In the 3D modular welding fixture system, Positioning clamping angles are core components that directly restrain and secure workpieces. Compatible with a wide range of workpiece sizes, Specification coverage 50mm–1200mm, Flexible selection based on actual conditions.

At the same time, Angle extends the reference plane, Serves as an extended worktable positioning surface horizontally and vertically.

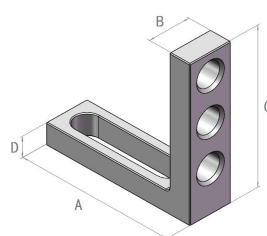
Complete product range, Covers mainstream market specifications. Optional material: Q355 Carbon steel, High-alloy steel, High-strength aluminum alloy, 304 Stainless steel.



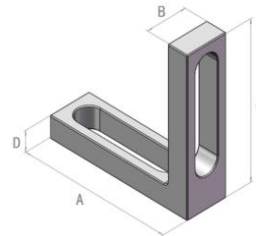
28 2 Sided Locating Angle

Description:

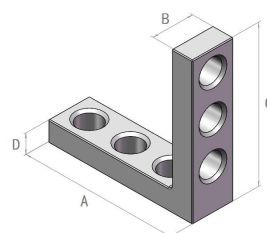
- ❑ Most Commonly used angle.
- ❑ 2 sides for locating and clamping.
- ❑ Different located options by combining the bores and slot.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on either side of the slot.
- ❑ Surface hardening treatment optional.
- ❑ Option materials: Stainless steel, aluminium alloy, high alloy tool steel.
- ❑ IT7 high precision production.



Bores / Slot



Slot / Slot



Bores / Bores

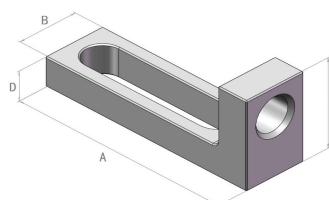


Description	SKU Code	A x B x C x D mm	NW(kg)
2 Sided Angle L175 Bores / Slot, surface blackening	28-30175-000	175 x 50 x 175 x 25	2.02
2 Sided Angle L175 Bores / Slot, surface hardening	28-30175-020		2.02
2 Sided Angle L175 Bores / Slot, with scale and hardening	28-30175-120		2.02
2 Sided Angle L175 Bores / Slot, with scale and super hardening	28-30175-130		2.02
2 Sided Angle L175 Bores / Slot, aluminium with scale	28-30175-140		0.70
2 Sided Angle L175 Bores / Slot Stainless Steel with scale	28-30175-150		2.02
2 Sided Angle L175 Slot / Slot , surface blackening	28-30175-001		1.74
2 Sided Angle L175 Slot / Slot, surface hardening	28-30175-021		1.74
2 Sided Angle L175 Slot / Slot with scale and hardening	28-30175-121		1.74
2 Sided Angle L175 Slot / Slot with scale and super hardening	28-30175-131		1.74
2 Sided Angle L175 Slot / Slot, aluminium with scale	28-30175-141		0.60
2 Sided Angle L175 Slot / Slot, stainless steel with scale	28-30175-151		1.74
2 Sided Angle L175 Bores / Bores, surface blackening	28-30175-002		2.34
2 Sided Angle L175 Bores / Bores, surface hardening	28-30175-022		2.34
2 Sided Angle L175 Bores / Bores, super hardening	28-30175-032		2.34
2 Sided Angle L175 Bores / Bores, aluminium	28-30175-042		0.80
2 Sided Angle L175 Bores / Bores, stainless steel	28-30175-052		2.34

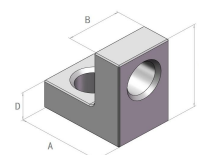
28 2 Sided Locating Angle Small

Description:

- ❑ Most Commonly used angle.
- ❑ 2 sides for locating and clamping.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on either side of the slot.
- ❑ Surface hardening treatment optional.
- ❑ Option materials: Stainless steel, aluminium alloy, high alloy tool steel.
- ❑ IT7 high precision production.
- ❑ Support and connect part



L175 Bore / Slot



L75 Bore/ Bore



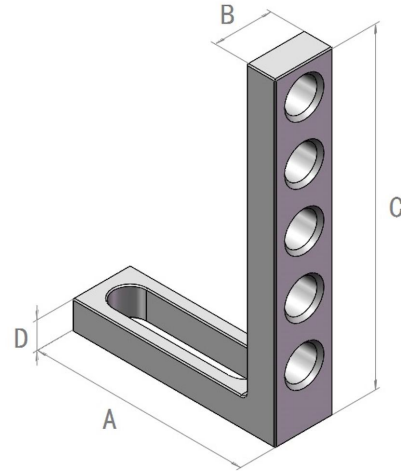
Description	SKU Code	A x B x C x D mm	NW(kg)
2 Sided Angle L75 Bore/ Bore, surface blackening	28-30175-000	75 x 75 x 50 x 25	0.98
2 Sided Angle L75 Bore/ Bore, surface hardening	28-30175-020		0.98
2 Sided Angle L175 Bore / Slot, surface blackening	28-30175-120	175 x 50 x 75 x 25	1.40
2 Sided Angle L175 Bore / Slot, surface hardening	28-30175-130		1.40
2 Sided Angle L175 Bore / Slot, with scale and hardening	28-30175-140		1.40
2 Sided Angle L175 Bore / Slot, with scale and super hardening	28-30175-150		0.50
2 Sided Angle L175 Bore / Slot , aluminium, with scale	28-30175-001		0.50
2 Sided Angle L175 Bore / Slot, stainless steel, surface hardening	28-30175-021		1.40

28

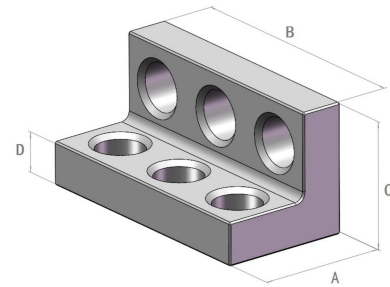
2 Sided Locating Angle & Bracket Angle

Description:

- ❑ Most Commonly used angle.
- ❑ 2 sides for locating and clamping.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on either side of the slot.
- ❑ Surface hardening treatment optional.
- ❑ Option materials: Stainless steel, aluminium alloy, high alloy tool steel.
- ❑ IT7 high precision production.



L275 Bores / Slot



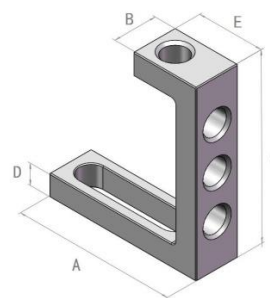
Bracket Angle

Description	SKU Code	A x B x C x D mm	NW(kg)
2 Sided Angle L275 Bores / Slot, surface blackening	28-30275-000	175 x 50 x 275 x 25	2.74
2 Sided Angle L275 Bores / Slot, surface hardening	28-30275-020		2.74
2 Sided Angle L275 Bores / Slot, scale and hardening	28-30275-120		2.74
2 Sided Angle L275 Bores / Slot, scale and super hardening	28-30275-130		2.74
2 Sided Angle L275 Bores / Slot, aluminium, with scale	28-30275-140		0.94
2 Sided Angle L275 Bore / Slot, stainless steel, with scale	28-30275-150		2.74
Bracket Angle, hardening	28-31150-000	75 x 150 x 75 x 25	2.90

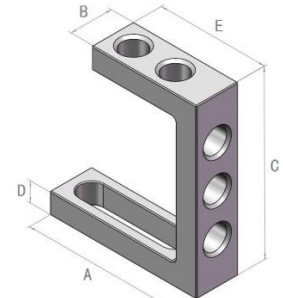
28 3 Sided Locating Angle

Description:

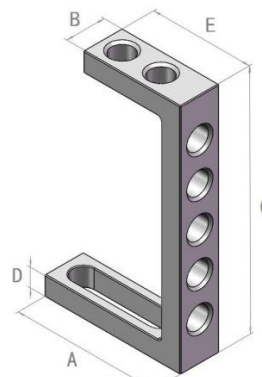
- ❑ 3 sides for locating and clamping.
- ❑ Different located options by combining the bores and slot.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on one side of the slot.
- ❑ Surface hardening treatment optional.
- ❑ Option materials: Stainless steel, aluminium alloy, high alloy tool steel.
- ❑ IT7 high precision production.



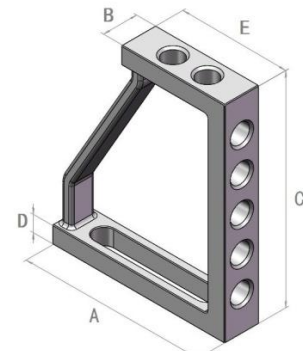
L200 Top one bore



L200 Top two bore



L300 Top one bore



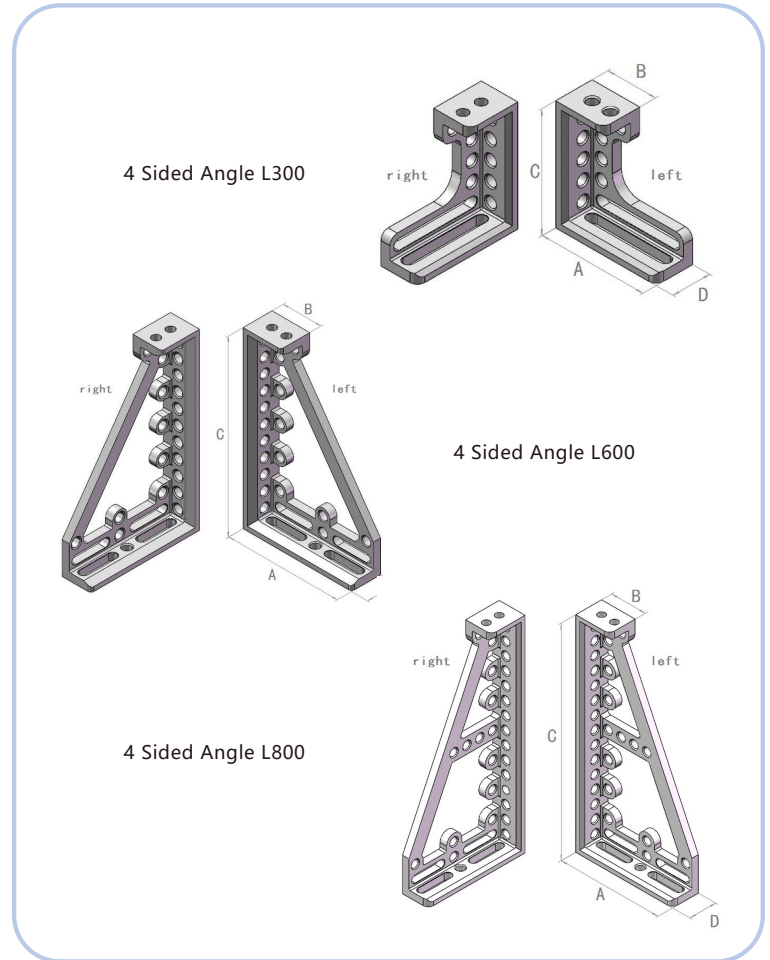
L300 Aluminium

Description	SKU Code	A x B x C x D x E mm	NW(kg)
3 Sided Angle L200, Top one bore, blackening	28-30200-001	175 x 50 x 200 x 25 x 75	2.70
3 Sided Angle L200, Top one bore, hardening	28-30200-021		
3 Sided Angle L200, Top one bore, with scale and hardening	28-30200-121		
3 Sided Angle L200, Top one bore, with scale and super hardening	28-30200-131		
3 Sided Angle L200, Top two bores, blackening	28-30200-002	175 x 50 x 200 x 25 x 125	2.90
3 Sided Angle L200, Top two bores, hardening	28-30200-022		
3 Sided Angle L200, Top two bores, with scale and hardening	28-30200-122		
3 Sided Angle L200, Top two bores, with scale and super hardening	28-30200-132		
3 Sided Angle L300, Top two bores, blackening	28-30300-005	175 x 50 x 300 x 25 x 125	3.80
3 Sided Angle L300, Top two bores, hardening	28-30300-025		
3 Sided Angle L300, Top two bores, with scale and hardening	28-30300-125		
3 Sided Angle L300, Top two bores, with scale and super hardening	28-30300-135		
3 Sided Locating Angle Al L300	28-30300-045	250 x 50 x 300 x 25 x 125	2.00

28 4 Sided Locating Angle

Description:

- ❑ Multiduty angle.
- ❑ 4 support surfaces for locating and clamping.
- ❑ Multiple adjustment by combining the bores and slot.
- ❑ Can be a stop and table extension for heavy workpieces.
- ❑ Precision scales as request.
- ❑ Ordering in pairs is recommended.
- ❑ Material: QT400 or high-strength aluminum alloy.



Description	SKU Code	A x B x C x D mm	NW(kg)
4 Sided Locating Angle L300, Right, hardening	28-30300-000	275 x 130 x 300 x 100	11.10
4 Sided Locating Angle L300, Left, hardening	28-30300-001		
4 Sided Locating Angle L300, Left, Aluminum	28-30300-002		4.20
4 Sided Locating Angle L300, Right, Aluminum	28-30300-003		
4 Sided Locating Angle L600, Right, hardening	28-30600-000	375 x 130 x 600 x 100	19.50
4 Sided Locating Angle L600, Left, hardening	28-30600-001		
4 Sided Locating Angle L600, Left, Aluminum	28-30600-002		7.50
4 Sided Locating Angle L600, Right, Aluminum	28-30600-003		
4 Sided Locating Angle L800, Right, hardening	28-30800-000	375 x 130 x 800 x 100	24.40
4 Sided Locating Angle L800, Left, hardening	28-30800-001		
4 Sided Locating Angle L800, Left, Aluminum	28-30800-002		9.50
4 Sided Locating Angle L800, Right, Aluminum	28-30800-003		

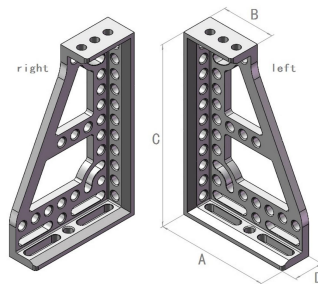
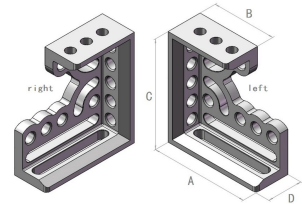
28

4 Sided Premium Locating Angle

Description:

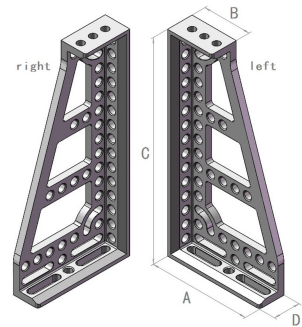
- ❑ Multiduty angle positioning with adjustable angle.
- ❑ 4 support surfaces for locating and clamping.
- ❑ Multiple adjustment by combining the bores and slot.
- ❑ Can be a stop and table extension for heavy workpieces.
- ❑ Precision scales as request.
- ❑ Ordering in pairs is recommended.
- ❑ Material: QT400 or high-strength aluminum alloy.

4 Sided Premium Angle L300



4 Sided Premium Angle L600

4 Sided Premium Angle L800



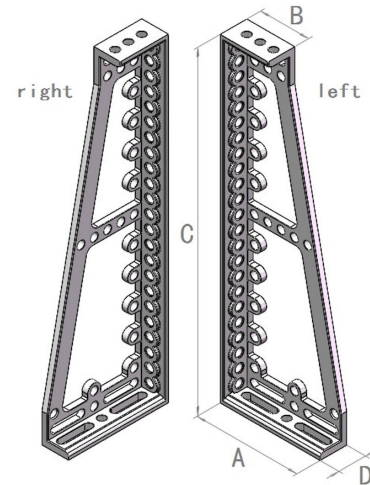
Description	SKU Code	A x B x C x D mm	NW(kg)
4 Sided Premium Locating Angle L300, Right, hardening	28-30300-010	275 x 180 x 300 x 100	13.30
4 Sided Premium Locating Angle L300, Left, hardening	28-30300-011		
4 Sided Premium Locating Angle L300, Left, Aluminum	28-30300-012		5.00
4 Sided Premium Locating Angle L300, Right, Aluminum	28-30300-013		
4 Sided Premium Locating Angle L600, Right, hardening	28-30600-010	375 x 180 x 600 x 100	25.00
4 Sided Premium Locating Angle L600, Left, hardening	28-30600-011		
4 Sided Premium Locating Angle L600, Left, Aluminum	28-30600-012		9.30
4 Sided Premium Locating Angle L600, Right, Aluminum	28-30600-013		
4 Sided Premium Locating Angle L800, Right, hardening	28-30800-010	375 x 180 x 800 x 100	30.70
4 Sided Premium Locating Angle L800, Left, hardening	28-30800-011		
4 Sided Premium Locating Angle L800, Left, Aluminum	28-30800-012		11.50
4 Sided Premium Locating Angle L800, Right, Aluminum	28-30800-013		

28 4 Sided Large Locating Angle

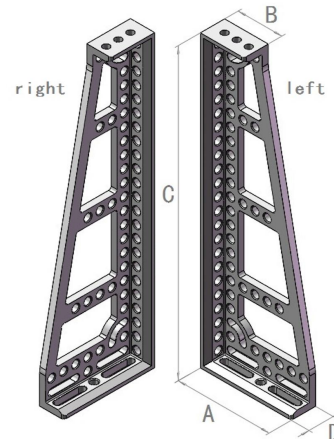
Description:

- ❑ Multiduty angle positioning with adjustable angle.
- ❑ 4 support surfaces for locating and clamping.
- ❑ Multiple adjustment by combining the bores and slot.
- ❑ Can be a stop and table extension for heavy workpieces.
- ❑ Precision scales on request.
- ❑ Ordering in pairs is recommended.
- ❑ Material: High-strength aluminum alloy.

4 Sided Angle L1200



4 Sided Premium Angle L1200

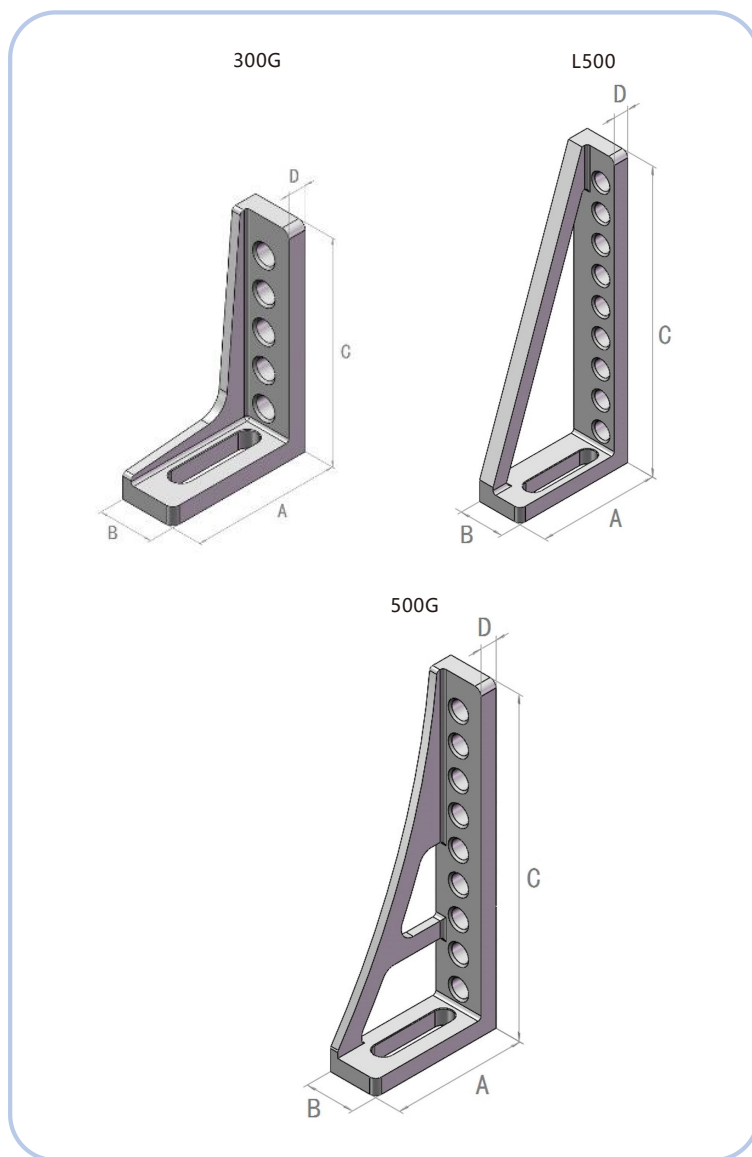


Description	SKU Code	A x B x C x D mm	NW(kg)
4 Sided Locating Angle L1200, Right, Aluminum	28-31200-000	375 x 130 x 1200 x 100	14.00
4 Sided Locating Angle L1200, Left, Aluminum	28-31200-001		
4 Sided Premium Locating Angle L1200, Left, Aluminum	28-31200-010	375 x 180 x 1200 x 100	15.30
4 Sided Premium Locating Angle L1200, Right, Aluminum	28-31200-011		

28 Stop and Clamping Square

Description:

□ Customer specification.

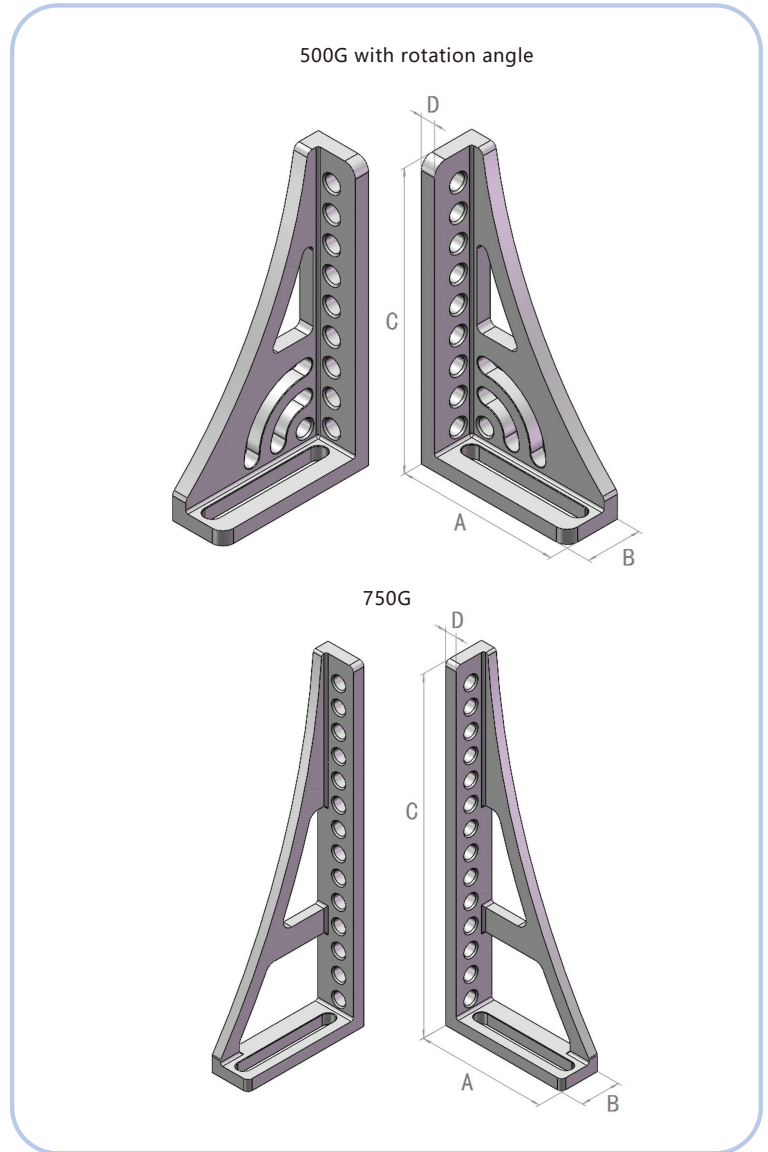


Description	SKU Code	A x B x C x D mm	NW(kg)
Stop and clamping square 300G, nitrided	S28-30300-024	200 x 75 x 300 x 25	6.52
Stop and clamping square L500, nitrided	28-30500-024	200 x 75 x 500 x 25	9.70
Stop and clamping square 500G, nitrided	S28-30500-024	200 x 75 x 500 x 25	9.40

28 Stop and Clamping Square

Description:

□ Customer specification.

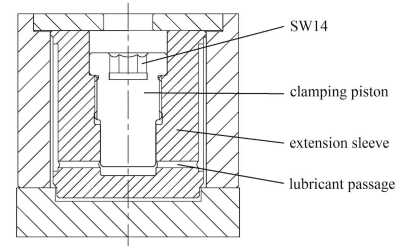
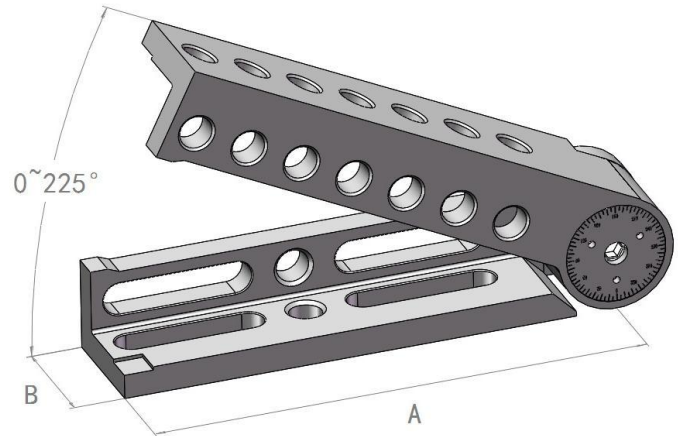


Description	SKU Code	A x B x C x D mm	NW(kg)
Stop and clamping square 500G with rotation angle, left, nitrided	S28-30500-026	275 x 95 x 500 x 25	11.50
Stop and clamping square 500G with rotation angle, right, nitrided	S28-30500-027		
Stop and clamping square 750G, left, nitrided	S28-30750-024	275 x 85 x 750 x 25	13.60
Stop and clamping square 750G, right, nitrided	S28-30750-025		

28 Adjustable Angle Ruler

Description:

- ▣ Adjust from 0 –225 °.
- ▣ The hydraulic locking mechanism.
- ▣ Holding force to 1500Nm.
- ▣ Precision angle scale.
- ▣ Surface hardening treatment.
- ▣ Optional materail: Aluminum alloy.

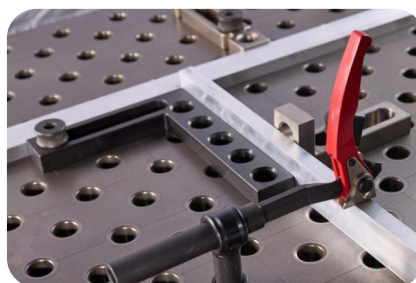
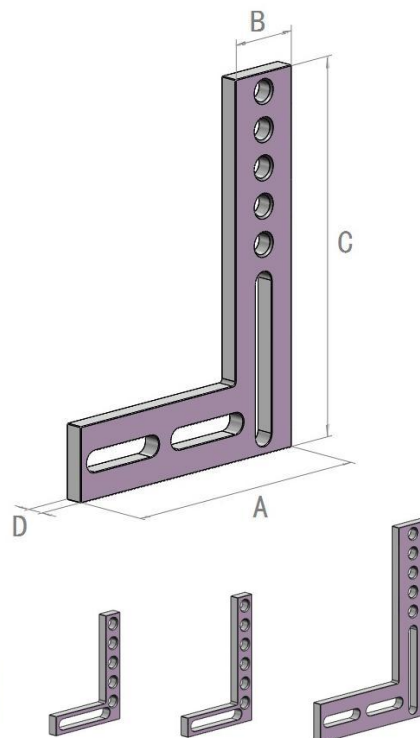


Description	SKU Code	A x B mm	NW(kg)
Adjustable Angle Ruler Right	28-30425-001	425 x 100	23.00
Adjustable Angle Ruler Left	28-30425-002		
Adjustable Angle Ruler Right, Aluminum	28-30425-003		9.00
Adjustable Angle Ruler Left, Aluminum	28-30425-004		

28 Flat Angle

Description:

- ▣ Locating at 90 degree angles by interior and exterior.
- ▣ Multiple options by combining the bores and slots.



Description	SKU Code	A x B x C x D mm	NW(kg)
Flat Angle 175 blackening	28-35175-000	175 x 50 x 175 x 25	1.85
Flat Angle 275 blackening	28-35275-000	225 x 50 x 275 x 25	3.00
Flat Angle 325 blackening	28-35325-000	225 x 50 x 325 x 25	3.50
Flat Angle 500 blackening	28-35500-000	375 x 100 x 500 x 25	11.84

28

Block

Description:

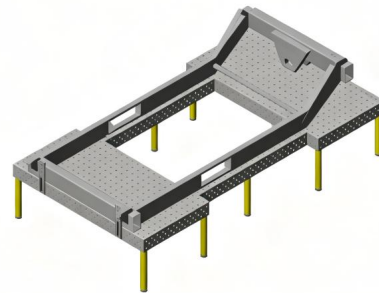
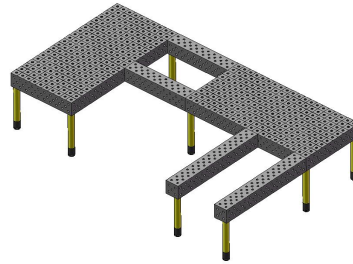
U-shape Block / L-shape Block / C-shape Block

These modules serves for table surface extension and vertical positioning of bulky, heavy workpieces. When applied as a cantilever frame, a supporting table leg is required for lengths exceeding 1000mm. When installed between two worktables, one supporting leg shall be equipped once the span length reaches 2000mm or above.

It features sturdy bearing capacity, stable mounting performance and flexible assembly, adapting to diverse workpiece processing and layout demands.

Material and surface hardening

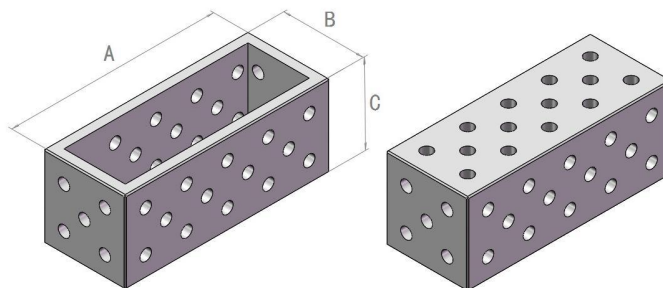
- ❑ Basic: Q355
- ❑ Hardening: Q355 (HRC 35)
- ❑ Super hardening:
High alloy Steel (HRC 60)
- ❑ Special purpose: Stainless Steel



28 U-shape Block

Description:

- ❑ 5 sides support surfaces
- ❑ Optional material: high alloy steel; aluminum alloy, stainless steel
- ❑ Surface hardening treatment available



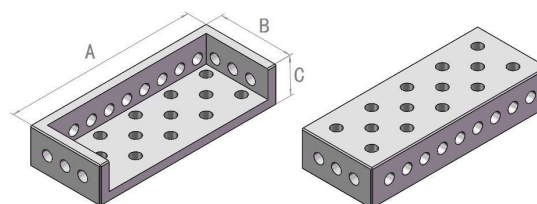
Description	SKU Code	A x B x C mm	NW(kg)
U-shape block	28-40050-000	500 × 200 × 200	55
	28-40100-000	1000 × 200 × 200	102
	28-40120-000	1200 × 200 × 200	120
	28-40150-000	1500 × 200 × 200	159
	28-40200-000	2000 × 200 × 200	200
	28-40240-000	2400 × 200 × 200	240
	28-40300-000	3000 × 200 × 200	285
	28-40400-000	4000 × 200 × 200	402
	28-40050-001	500 × 400 × 200	91
	28-40100-001	1000 × 400 × 200	160
	28-40120-001	1200 × 400 × 200	174
	28-40150-001	1500 × 400 × 200	244
	28-40200-001	2000 × 400 × 200	281
	28-40240-001	2400 × 400 × 200	329
	28-40300-001	3000 × 400 × 200	410
	28-40400-001	4000 × 400 × 200	560

28

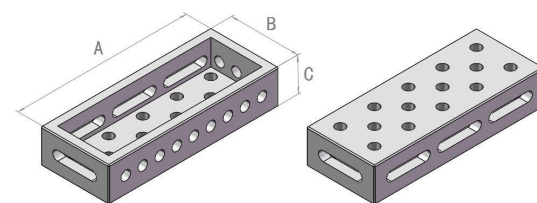
L-shape Block / C-shape Block/Connection Angle

Description:

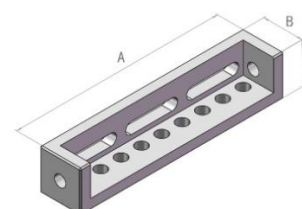
- ❑ 4 sides support surfaces
- ❑ Optional material: high alloy steel; aluminum alloy, stainless steel
- ❑ Surface hardening treatment available



L-shape Block



C-shape Block



Connection Angle

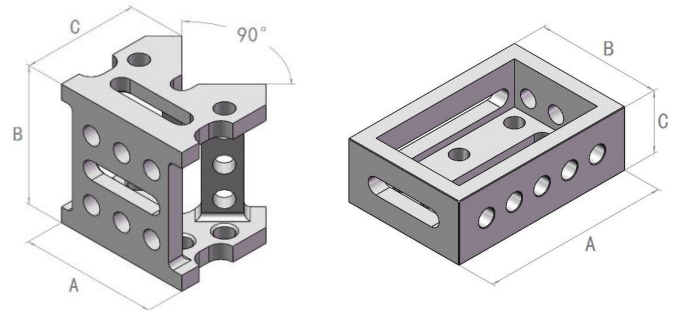
Description	SKU Code	A x B x C mm	NW(kg)
L-shape block	28-41050-001	500 × 200 × 100	28
	28-41100-001	1000 × 200 × 100	52
	28-41120-001	1200 × 200 × 100	63
	28-41150-001	1500 × 200 × 100	79
	28-41200-001	2000 × 200 × 100	106
C-shape block, right, aluminum alloy	28-42050-000	500 × 200 × 100	11
C-shape block, left, aluminum alloy	28-42050-001		11
C-shape block, right, hardening	28-42050-002		31
C-shape block, left, hardening	28-42050-003		31
C-shape block,, right, aluminum alloy	28-42100-000	1000 × 200 × 100	20
C-shape block,, left, aluminum alloy	28-42100-001		20
C-shape block,, right, hardening	28-42100-002		62
C-shape block, left, hardening	28-42100-003		62
connection angle	28-43050-000	500 × 100 × 100	15

28

Corner Module / Support Module

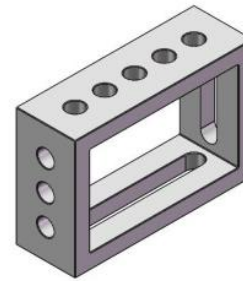
Description:

- ❑ Multiduty block.
- ❑ Surface hardening treatment available
- ❑ Optional material: Aluminum alloy



Corner Module

Support Module



Support Frame

Description	SKU Code	A x B x C mm	NW(kg)
Corner Module Right	28-92020-000	200×200×175	14.00
Corner Module Left	28-92020-001	200×200×175	14.00
Corner Module Right, Aluminum	28-92020-002	200×200×175	5.00
Corner Module Left, Aluminum	28-92020-003	200×200×175	5.00
Support Module Right	28-93020-000	300×200×100	15.00
Support Module Left	28-93020-001	300×200×100	15.00
Support Module Right, Aluminum	28-93020-002	300×200×100	5.80
Support Module Left, Aluminum	28-93020-003	300×200×100	5.80
Support Frame	28-93020-005	300×200×75	8.00
Support Frame, Aluminum	28-93020-006	300×200×75	3.10

28 Stop

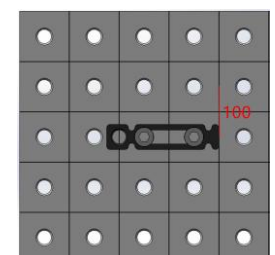
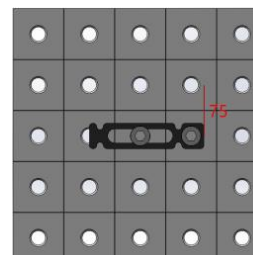
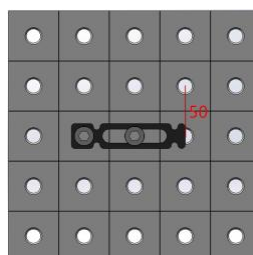
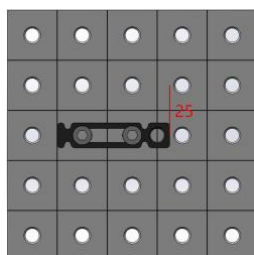
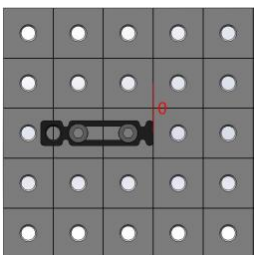
Description:

Stops are core components that limit welding positions of workpieces, control forming dimensions and ensure repetitive machining accuracy. They effectively avoid assembly deviations, stabilize welding posture, and improve finished product consistency and welding quality.

An important function of universal stops is to form the reference dimension chain and ensure repetitive accuracy. See the figure below. Adding gaskets enables positioning to any required dimension.

Material and surface hardening

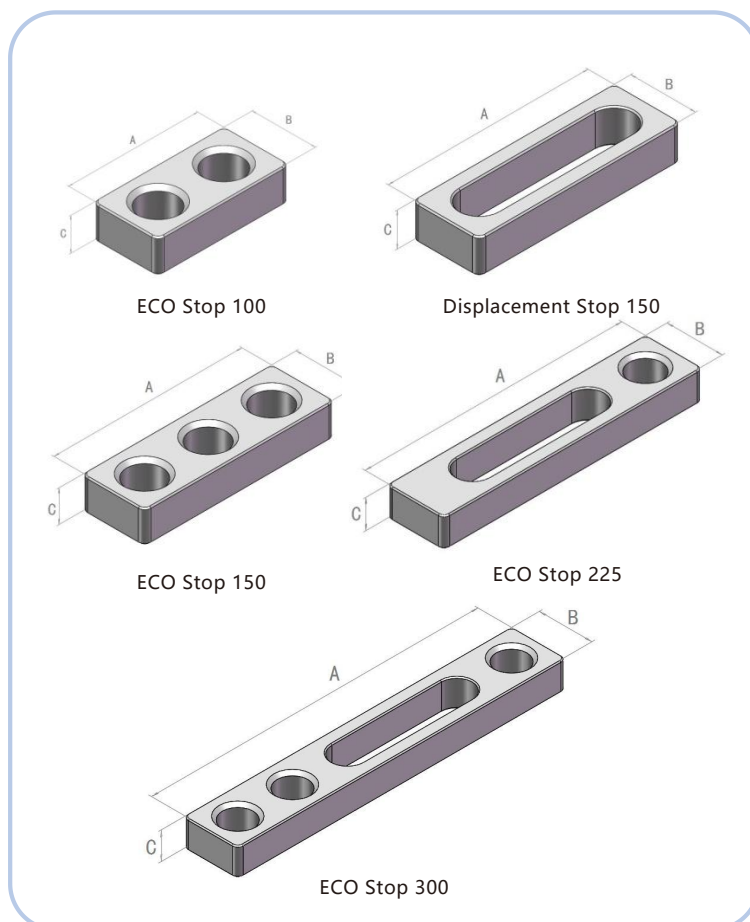
- ❑ Basic: Q355
- ❑ Hardening: Q355 (HRC 35)
- ❑ Super hardening:
High alloy Steel (HRC 60)
- ❑ Special purpose: Stainless Steel,
aluminum alloy



28 ECO Stop

Description:

- Commonly used stop.
- Easy and quick handling.
- Surface hardening treatment available
- Optional material: Stainless steel or Aluminium alloy.

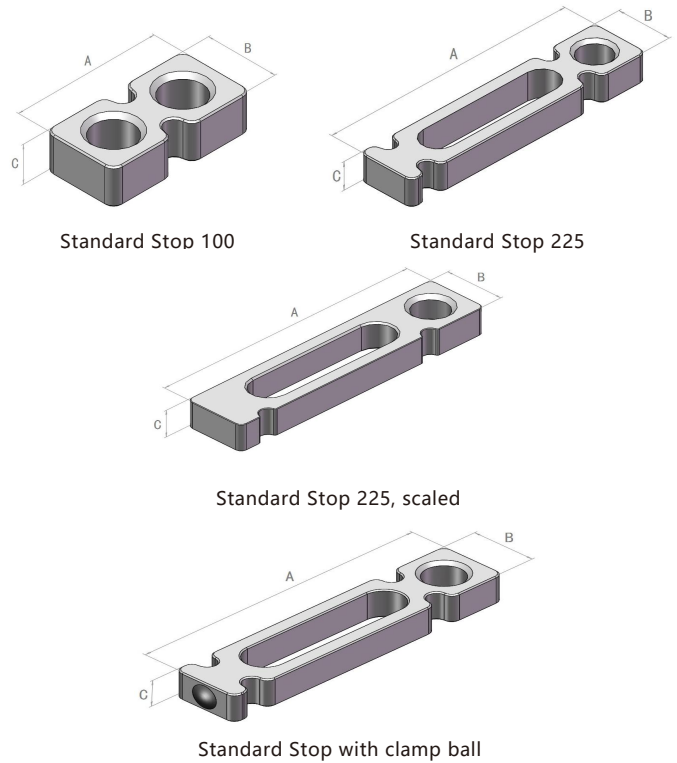


Description	SKU Code	A x B x C mm	NW(kg)
ECO Small Stop 100 surface blackening	28-50010-000	100×50×25	0.65
ECO Small Stop 100 surface hardening	28-50010-020	100×50×25	0.65
Displacement Stop 150, with scale, surface blackening	28-50150-100	150×50×25	0.90
Displacement Stop 150, with scale, surface hardening	28-50150-120	150×50×25	0.90
ECO Stop 150, 3 holes, surface hardening	28-50150-003	150×50×25	1.10
ECO Universal Stop 225, surface blackening	28-50022-000	225×50×25	1.40
ECO Universal Stop 225, surface hardening	28-50022-020	225×50×25	1.40
ECO Universal Stop 300, surface blackening	28-50030-000	300×50×25	1.85
ECO Universal Stop 300, surface hardening	28-50030-020	300×50×25	1.85

28 Standard Stop With Groove

Description:

- ❑ Commonly used stop.
- ❑ Easy and quick handling.
- ❑ The grooves allow direct positioning of the right angle surface.
- ❑ Standard stops form multiples of 25 mm dimension chain.
- ❑ Surface hardening treatment available
- ❑ Optional material: Stainless steel, high alloy steel or Aluminium alloy.
- ❑ IT7 high precision production.



Description	SKU Code	A x B x C mm	NW(kg)
Standard Stop with groove 100, surface blackening	28-50010-002	100×50×25	0.60
Standard Stop with groove 100, surface hardening	28-50010-022		0.60
Standard Stop with groove 225, surface blackening	28-50022-004	225×50×25	1.32
Standard Stop with groove 225, surface hardening	28-50022-024		1.32
Standard Stop with groove 225, super hardening	28-50022-034		1.32
Standard Stop with groove 225, aluminium alloy	28-50022-044		0.40
Standard Stop with groove 225, stainless steel	28-50022-054		1.32
Standard Stop with groove 225, scaled, surface blackening	28-50022-102		1.33
Standard Stop with groove 225, scaled, surface hardening	28-50022-122		1.33
Standard Stop with groove 225, scaled, aluminium alloy	28-50022-142		0.40
Standard Stop with clamp ball, surface hardening	28-50022-025		1.32
Standard Stop with clamp ball, surface blackening	28-50022-045		0.40

28

Standard Stop With Groove / Plate Stop /Adapter Plate

Description:

Standard Stop

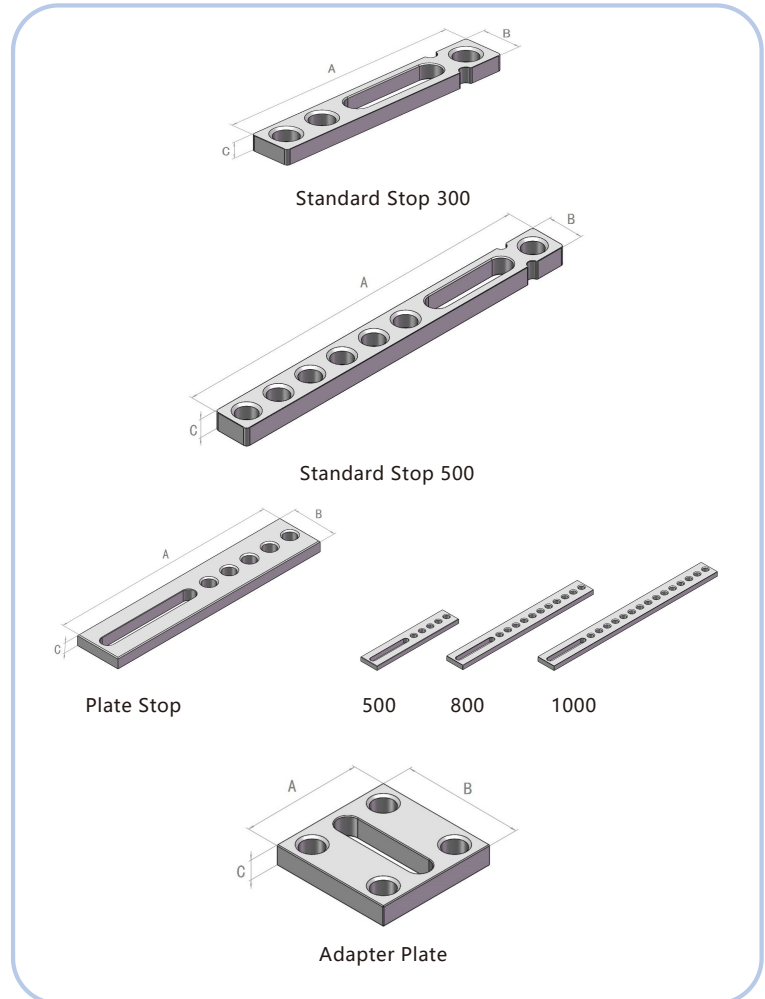
- ❑ Commonly used stop.
- ❑ Easy and quick handling.
- ❑ The grooves allow direct positioning of the right angle surface.
- ❑ Surface hardening treatment available
- ❑ Optional material: Stainless steel, high alloy steel or Aluminium alloy.

Plate Stop

- ❑ Commonly used as a side stop.
- ❑ 200mm long slot allows for more adjustment.

Adapter Plate

- ❑ Connect 3D table system bores with components.



Description	SKU Code	A x B x C mm	NW(kg)
Standard Stop with groove 300 surface blackening	28-50030-002	300×50×25	1.80
Standard Stop with groove 300 surface hardening	28-50030-022	300×50×25	1.80
Standard Stop with groove 500, surface blackening	28-50050-002	500×50×25	3.22
Standard Stop with groove 500, surface hardening	28-50050-002	500×50×25	3.22
Plate Stop 500	28-50050-001	500×100×25	7.00
Plate Stop 800	28-50080-001	800×100×25	14.00
Plate Stop 1000	28-50100-001	1000×100×25	16.48
ECO Universal Stop 300, surface blackening	28-51515-000	150×150×25	3.18

28 Angle Plate / Eccentrec Stop

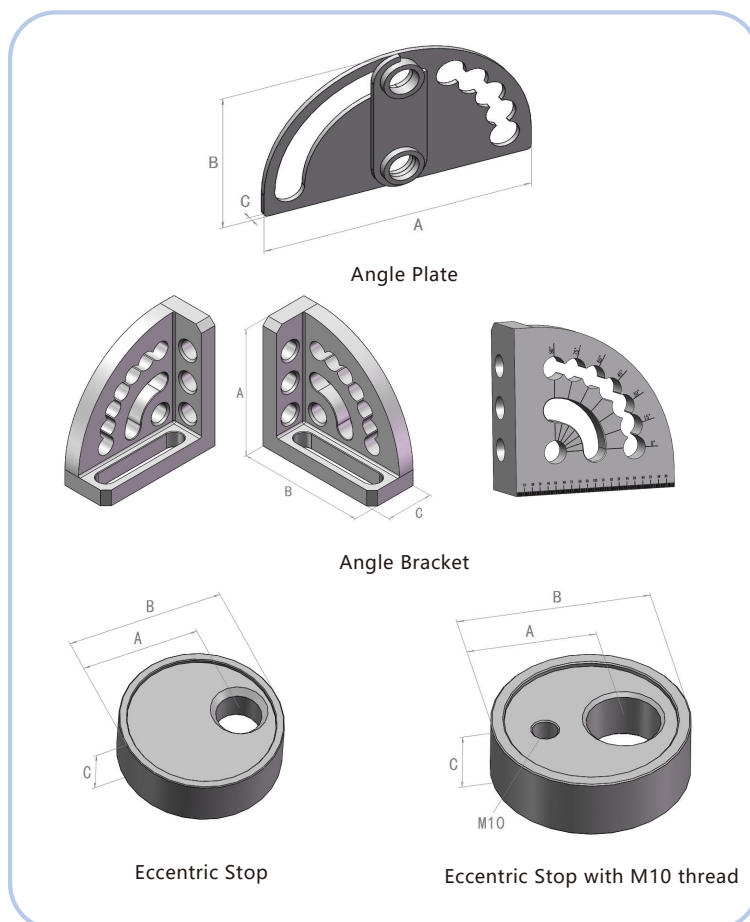
Description:

Angle Plate

- ❑ Multifunctional stop.
- ❑ Easy to locate angle on table.
- ❑ Quick locating at 15°, 30°, 45°, 60°
- ❑ Slot can be adjusted from 0° to 90° .
- ❑ Black oxide finish.

Eccentric Stop

- ❑ Use as a stop or support for irregular distance adjustment.
- ❑ Connect with standard bolt, infinitely adjusted by rotating.
- ❑ Suitable for small space use.
- ❑ Black oxide finish.



Description	SKU Code	A x B x C mm	NW(kg)
Angle Plate	28-52515-003	250×150×12	0.88
Angle Bracket, Right	28-52020-004	200×200×75	7.30
Angle Bracket, Right, surface hardening、	28-52020-024		7.30
Angle Bracket, Left	28-52020-005		7.30
Angle Bracket, Left, surface hardening、	28-52020-025		7.30
Eccentrec Stop 75	28-52075-000	50×75×25	0.70
Eccentrec Stop 100	28-52100-000	75×100×25	1.30
Eccentrec Stop with M10 thread	28-52075-001	50×75×25	0.68

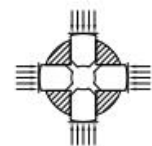
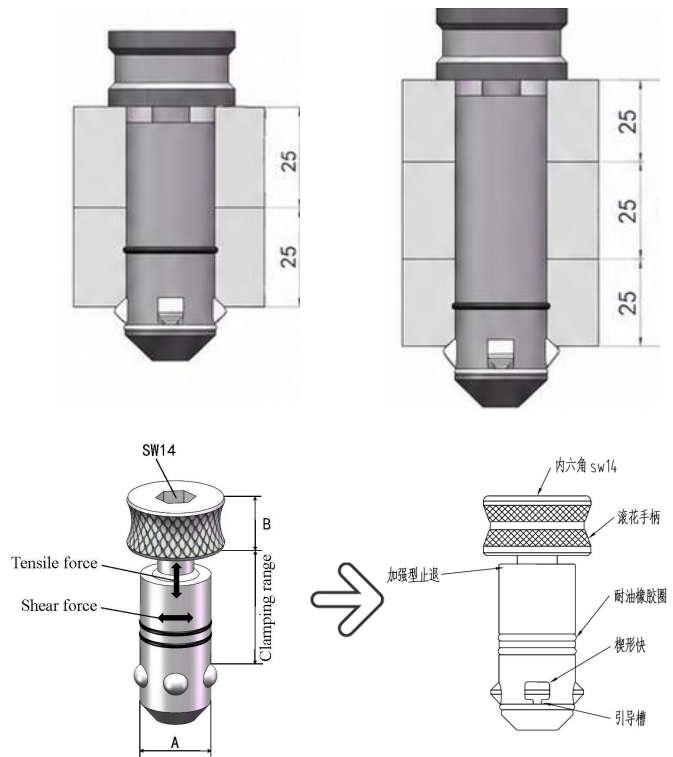
28 Bolt

Description:

Bolt - Positioning locking pin, It is a key component connecting modules to the work table and between modules. It serves two main functions: positioning centering and locking. The contact surface lies on the inclined plane at the back of the hole, so it is hardly damaged by oil stains, welding spatter and residues. Rotate the pin head, the internal screw pushes out steel balls or wedge blocks to contact the positioning surface and complete centering and locking.

STQ Bolt

From steel ball locking to uniquely designed wedge block locking with guide grooves, the bearing capacity increases 5 times and service life extends 3 times, with a 2-year warranty.



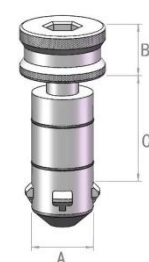
Four-sided force



28 STQ Bolt

Description:

- ❑ Locate and lock all kinds of modules for 28 system holes.
- ❑ Take away hoop and cones out for easy cleaning.
- ❑ No damage to the system bores.
- ❑ Can be operated with one hand.
- ❑ Clamp by hex wrench SW14/SW8.
- ❑ Bolt body is bearing steel material, surface HRC55.



STQ I Bolt



STQ I Countersunk Bolt



STQ II Bolt



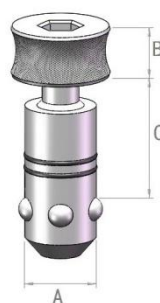
STQ II Countersunk Bolt

Description	SKU Code	A x B x C mm	NW(kg)
STQ I Bolt, short	28-60041-000	28×20× (41-50)	0.60
STQ I Bolt, long	28-60041-001	28×20× (66-75)	0.70
STQ I Countersunk Bolt, short	28-60041-002	28×31.6× (41-50)	0.40
STQ I Countersunk Bolt, long	28-60041-003	28×31.6× (66-75)	0.50
STQ II Bolt, short	28-60061-000	28×20× (41-50)	0.60
STQ II Bolt, long	28-60061-001	28×20× (66-75)	0.70
STQ II Countersunk Bolt, short	28-60061-002	28×31.6× (41-50)	0.40
STQ II Countersunk Bolt, long	28-60061-003	28×31.6× (66-75)	0.50

28 Ball Bolt

Description:

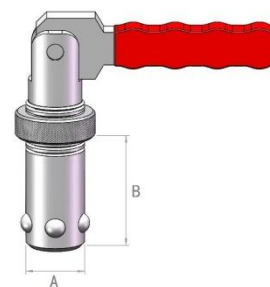
- ❑ Rely on high-strength steel ball positioning and locking system holes.
- ❑ Bolt body and hole fit accurately.
- ❑ Lock or release with one hand.
- ❑ Clamp by hex wrench SW14/SW8.
- ❑ Bolt body is bearing steel material, surface HRC55.



Ball Bolt



Ball Bolt Countersunk Bolt



Quick Clamping Bolt

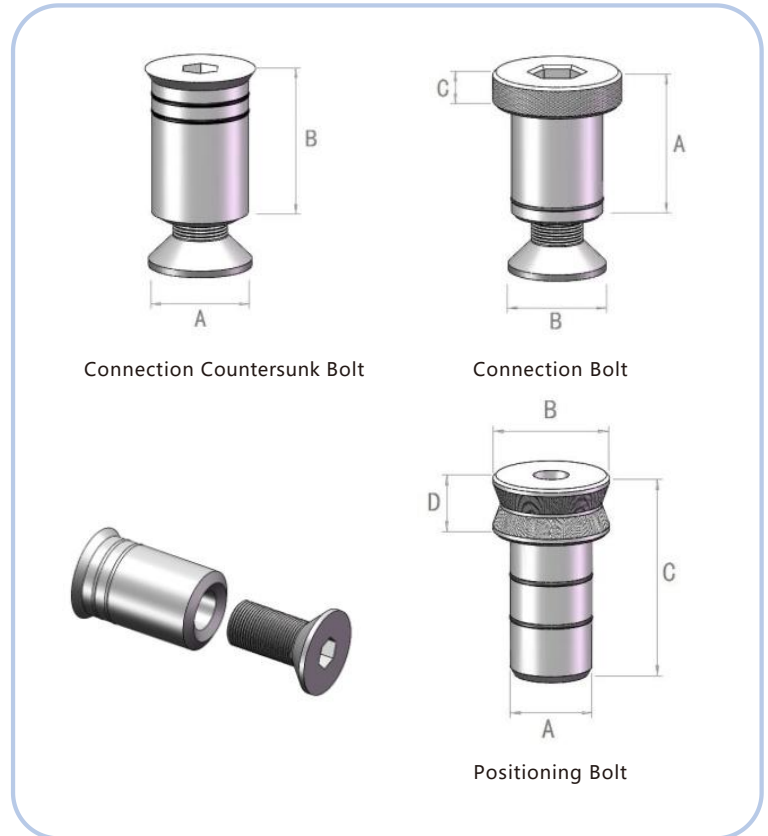
Description	SKU Code	A x B x C mm	NW(kg)
Ball Bolt, short	28-60051-000	28×20× (41-50)	0.60
Ball Bolt, long	28-60051-001	28×20× (66-75)	0.70
Ball Countersunk Bolt, short	28-60051-002	28×31.6× (41-50)	0.40
Ball Countersunk Bolt, long	28-60051-003	28×31.6× (66-75)	0.50
Quick Clamping Bolt	28-60007-000	28×20× (31-50)	0.62

28

Connection Bolt / Positioning Bolt

Description:

- ❑ Connection pin be used for long term connection.
- ❑ Use for connect table to table or block and stop for system bores.
- ❑ Clamp by hex wrench SW10
- ❑ Locating pin without locking.
- ❑ Usually use with STQ bolt together.
- ❑ Economical substitute for a 2nd Clamping bolt.



Description	SKU Code	A x B x C x D mm	NW(kg)
Connection Bolt, short	28-60003-000	28×35.5	0.18
Connection Bolt, long	28-60003-002	28×45	0.26
Connection Countersunk Bolt, short	28-60003-005	35×28×10	0.28
Connection Countersunk Bolt, long	28-60051-003	60×28×10	0.35
Positioning Bolt, short	28-60009-000	28×40×70×20	0.28
Positioning Bolt, long	28-60009-001	28×40×110×20	0.35

28 Clamp

Description:

Circular Pipe Srew Clamp:

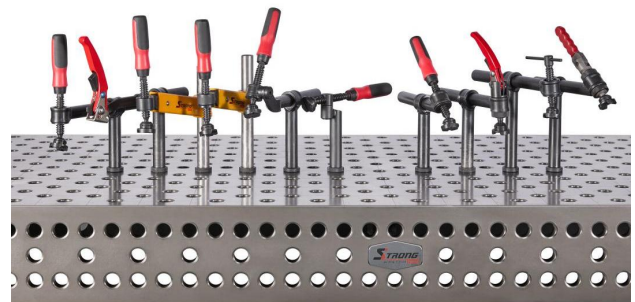
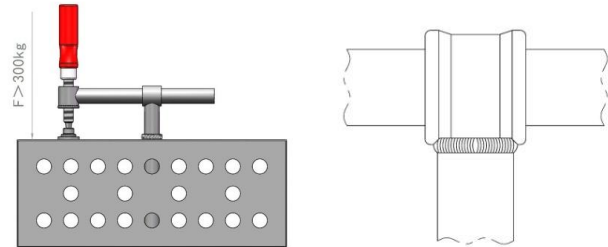
It locks itself in the hole relying on the deformation force generated by the clamping tube when the srew handle tightens the workpiece. This is the working principle of the clamper. No tools are required for this clamping method; it can be operated simply by rotating the handle manually, featuring convenient and fast use.

Ergonomically optimized handle is injection-molded with composite plastic, delivering comfortable grip and preventing slippage during rotation.

Increase wall thickness and welding area at clamping tube end to enhance bearing strength.

The clamping tube is custom-sized cold-drawn pipe made of high-strength alloy steel. It boasts excellent bearing capacity and plastic deformation resistance. This enlarged custom clamper features a 50mm clamping tube with a maximum clamping force of 2000kg.

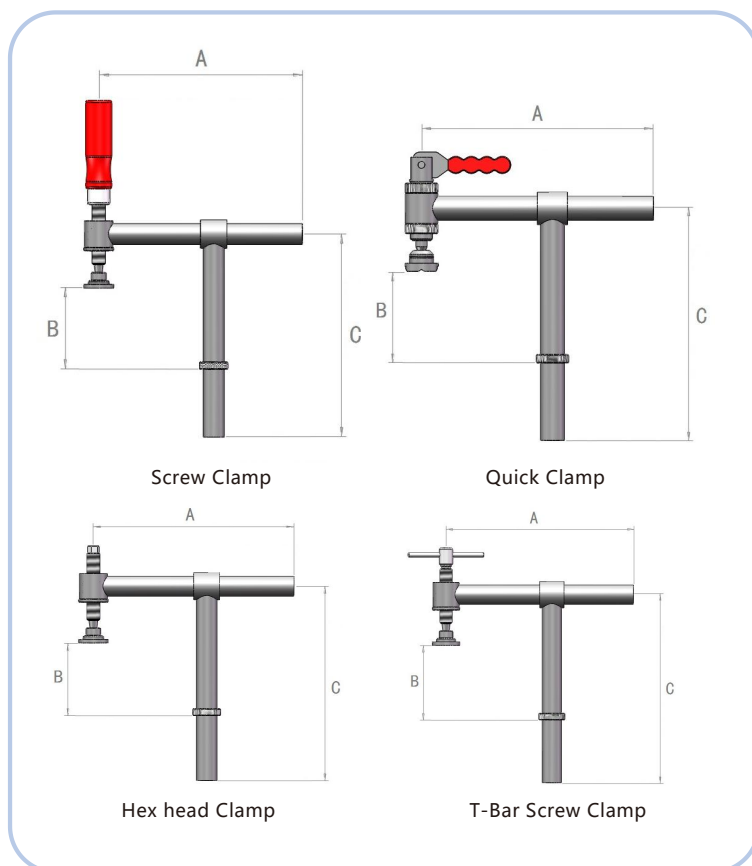
All clamper handles are interchangeable, including srew handle, quick-release handle, ratchet locking handle, T-bar handle and hexagon screw rod.



28 180° Clamp With Various Handles

Description:

- ❑ Rubber and plastic handle feeling comfortable, non-skid.
- ❑ Oval handle makes more powerful.
- ❑ Each part can be used separately and recombined to other kinds of clamps.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ Clamp horizontal and vertical distances are adjustable.



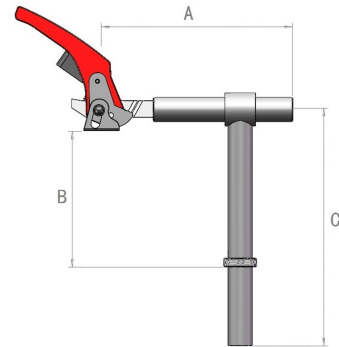
Description	SKU Code	A x B span x C mm	NW(kg)
Screw Clamp, 180°/ 270	28-85027-000	220×max.140×270	2.00
Screw Clamp, 180°/ 350	28-85035-000	220×max.270×350	2.38
Screw Clamp, 180°/ 500	28-85050-000	220×max.420×500	2.81
Quick Clamp, 180°/ 270	28-85027-001	220×max.140×270	2.23
Quick Clamp, 180°/ 350	28-85035-001	220×max.270×350	2.60
Quick Clamp, 180°/ 500	28-85050-001	220×max.420×500	3.03
Hex head Clamp, 180°/ 270	28-85027-002	220×max.140×270	1.79
Hex head Clamp, 180°/ 350	28-85035-002	220×max.270×350	2.16
Hex head Clamp, 180°/ 500	28-85050-002	220×max.420×500	2.59
T-Bar Screw Clamp, 180°/ 270	28-85027-003	220×max.140×270	1.79
T-Bar Screw Clamp, 180°/ 350	28-85035-003	220×max.270×350	2.16
T-Bar Screw Clamp, 180°/ 500	28-85050-003	220×max.420×500	2.59

28

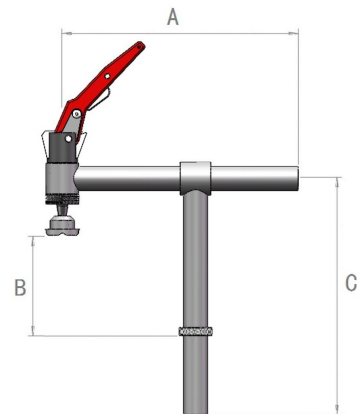
180° Clamp With Ratchet Handles

Description:

- ❑ Quick operation, ratchet locking is more reliable.
- ❑ Each part can be used separately and recombined to other kinds of clamps.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ Clamp horizontal and vertical distances are adjustable.



Ratchet locking Clamp



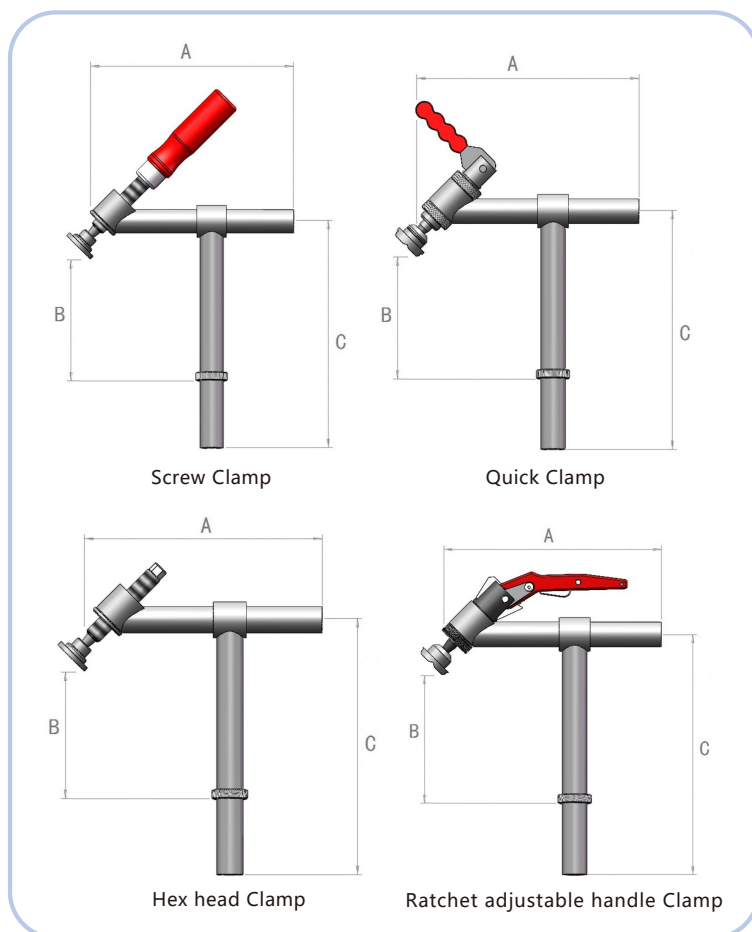
Ratchet adjustable handle Clamp

Description	SKU Code	A x B span x C mm	NW(kg)
Ratchet locking Clamp 180°/ 270	28-85027-004	220×max. 140×270	2.23
Ratchet locking Clamp 180°/ 350	28-85035-004	220×max. 270×350	2.60
Ratchet locking Clamp 180°/ 500	28-85050-004	220×max. 420×500	3.03
Ratchet adjustable handle Clamp 180°/ 270	28-85027-005	220×max. 140×270	3.00
Ratchet adjustable handle Clamp 180°/ 350	28-85035-005	220×max. 270×350	3.30
Ratchet adjustable handle Clamp 180°/ 500	28-85050-005	220×max. 420×500	4.20

28 45° Clamp With Various Handles

Description:

- ❑ Various types of handles are available for selection
- ❑ Oval-shaped screw handle makes more powerful.
- ❑ Clamp by hex wrench makes great force.
- ❑ Each part can be used separated and recombined to other kinds of clamps.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ Clamp horizontal and vertical distances are adjustable

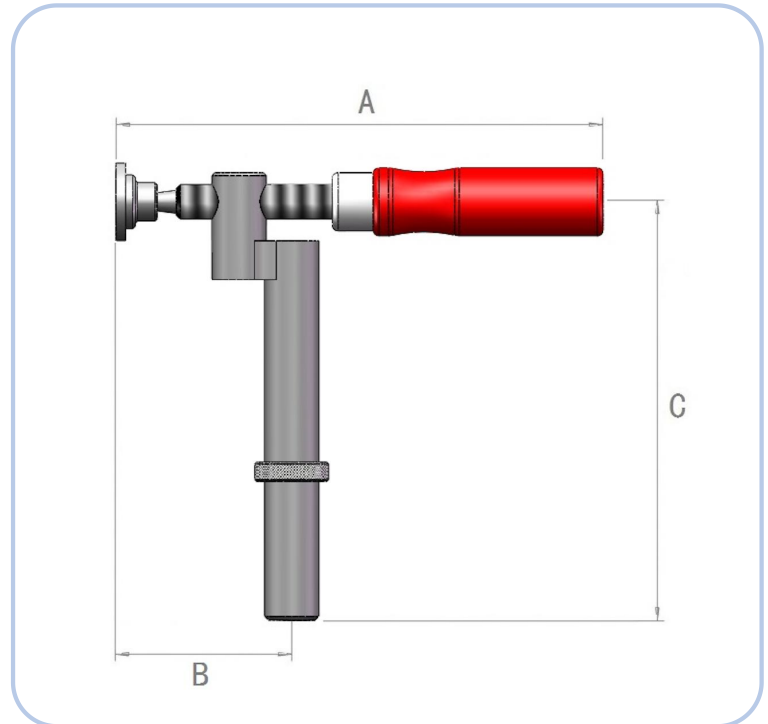


Description	SKU Code	A x B span x C mm	NW(kg)
Screw Clamp, 45°/ 270	28-89027-000	220×max.140×270	2.02
Screw Clamp, 45°/ 350	28-89035-000	220×max.270×350	2.4
Screw Clamp, 45°/ 500	28-89050-000	220×max.420×500	2.83
Quick Clamp, 45°/ 270	28-89027-001	220×max.140×270	2.24
Quick Clamp, 45°/ 350	28-89035-001	220×max.270×350	2.62
Quick Clamp, 45°/ 500	28-89050-001	220×max.420×500	3.05
Hex head Clamp, 45°/ 270	28-89027-002	220×max.140×270	1.8
Hex head Clamp, 45°/ 350	28-89035-002	220×max.270×350	2.18
Hex head Clamp, 45°/ 500	28-89050-002	220×max.420×500	2.61
Ratchet adjustable handle Clamp, 45°/ 270	28-85027-005	220×max.140×270	3.00
Ratchet adjustable handle Clamp, 45°/ 350	28-85035-005	220×max.270×350	3.30
Ratchet adjustable handle Clamp, 45°/ 500	28-85050-005	220×max.420×500	4.20

28 90° Screw Clamp

Description:

- ❑ Rubber and plastic handle, feeling comfortable, non-skid.
- ❑ Oval handle, can make more powerful.
- ❑ Clamp by hex wrench makes much tighter.
- ❑ Height adjustment with stop ring.
- ❑ The clamping distance compensation 70mm.
- ❑ Handle is replaceable.
- ❑ Replace A variety of clamping pad.

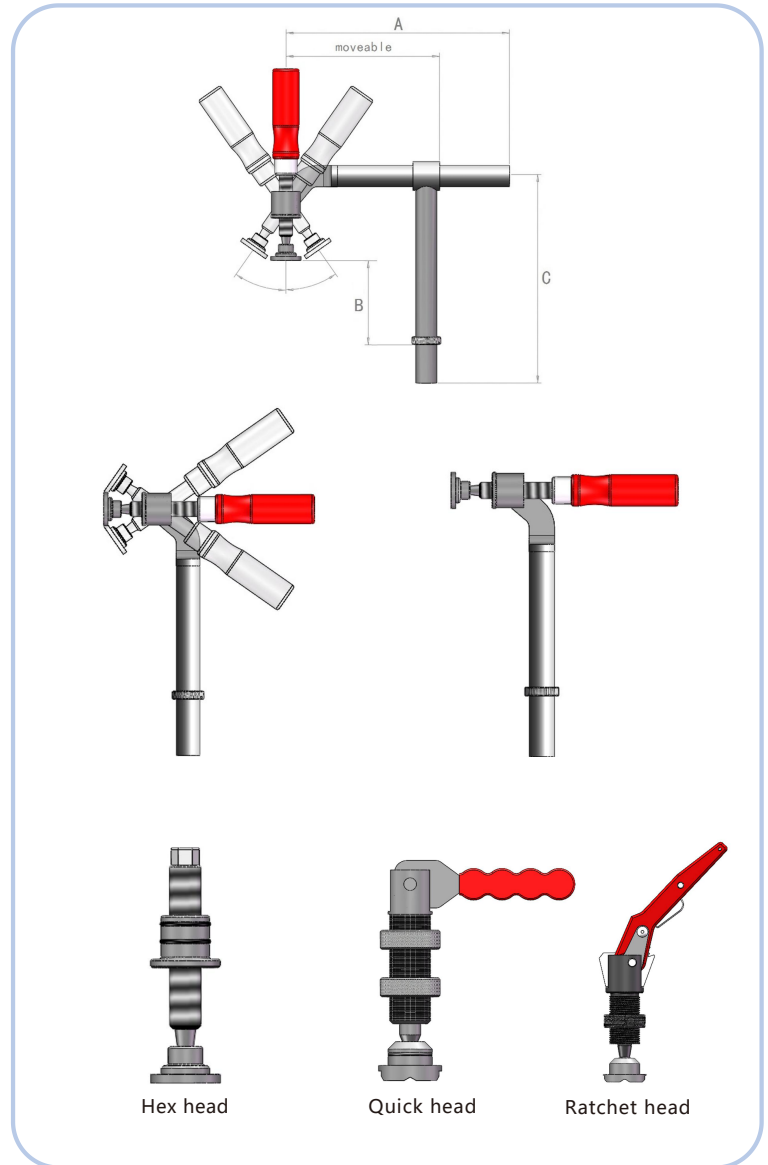


Description	SKU Code	A x B span x C mm	NW(kg)
Screw Clamp 90°/ 270	28-88022-000	220×max. 100×270	1.26
Screw Clamp 90°/ 350	28-88035-000	220×max. 100×350	1.69
Screw Clamp 90°/ 500	28-88050-000	220×max. 100×500	2.12

28 Versatile Screw Clamp

Description:

- ❑ Cover the function of 45°, 90° and 180° screw clamp.
- ❑ 360 degree rotation.
- ❑ Various applications can be converted.
- ❑ Can be changed hex or quick head.

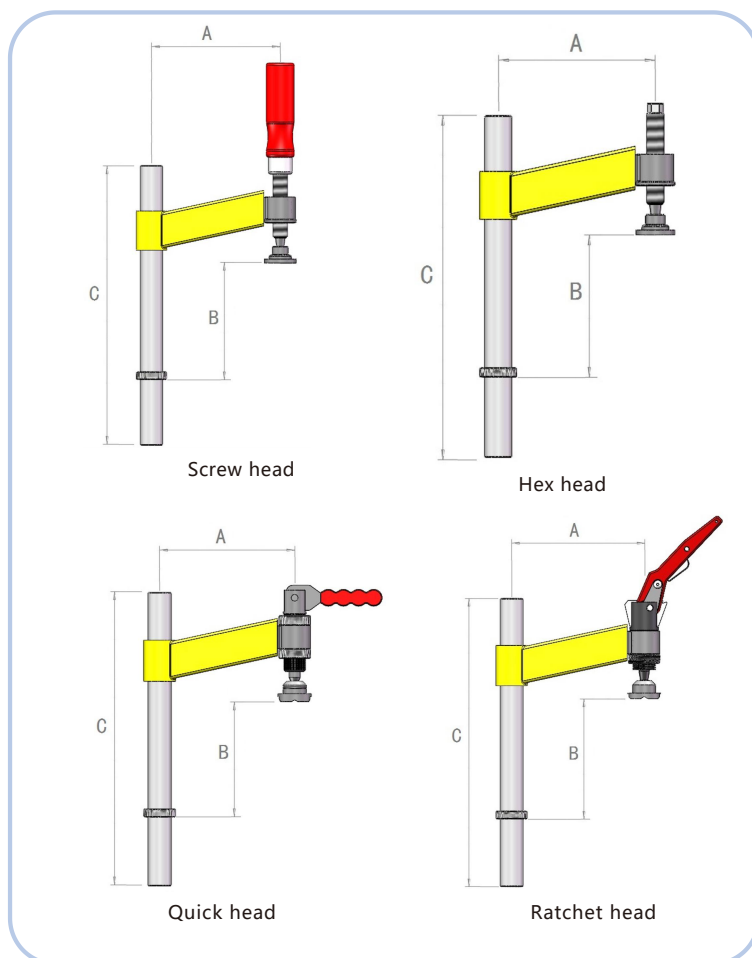


Description	SKU Code	A x B span x C mm	NW(kg)
Versatile screw clamp with screw handle	28-83027-033	240×max.180×270	3.00
Versatile screw clamp with hex head	28-83027-034	240×max.180×350	2.20
Versatile screw clamp with quick head	28-83027-035	240×max.180×500	2.20
Versatile screw clamp with ratchet head	28-83027-036	240×max.180×270	3.00

28 Compensation Clamp

Description:

- ❑ No displacement when the clamping. Fast and higher clamp force.
- ❑ Adjustable clamping height.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ High strength steel standpipe.
- ❑ The 600 and 1000 extension tubes are customized tubes with higher strength



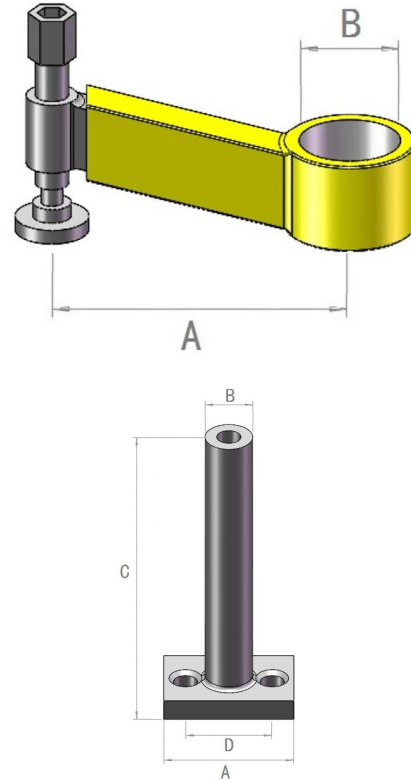
Description	SKU Code	A x B x C mm	NW(kg)
Compensation clamp with screw head 150/ 350	28-85115-000	150×280×350	2.80
Compensation clamp with screw head 200/ 350	28-85120-000	200×280×350	3.00
Compensation clamp with hex head 150/ 350	28-85115-002	150×280×350	3.00
Compensation clamp with hex head 200/ 350	28-85120-002	200×280×350	3.50
Compensation clamp with quick clamp 150/ 350	28-85115-001	150×280×350	3.00
Compensation clamp with quick clamp 200/ 350	28-85120-001	200×280×350	3.50
Compensation clamp with ratchet head 150/ 350	28-85115-005	150×280×350	3.00
Compensation clamp with ratchet head 200/ 350	28-85120-005	200×280×350	3.50
Extension tube 600 mm	28-87004-002	Ø28 x 600	-
Extension tube 1000 mm	28-87004-003	Ø28 x 1000	-

28

Compensation Clamp For Heavy Load

Description:

- ❑ Heavy clamping force 2000kg.
- ❑ Fast and easy to use.
- ❑ Adjustable clamping height.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ High strength steel standpipe.



Description	SKU Code	A x B x C mm	NW(kg)
Heavy clamp arm	28-85200-110	180×55	2.80
Clamping support 200	28-85200-200	150×55×200	4.00
Clamping support 350	28-85200-350	150×55×350	5.50
Clamping support 700	28-85200-700	150×55×700	8.40
Clamping support 1000	28-85200-100	150×55×1000	11.00

28 Clamp Accessory

Description:

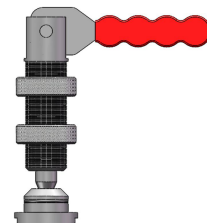
- ❑ Screw handle is made of plastic-rubber composite material to prevent slipping.
- ❑ Height adjustment with stop ring.
- ❑ The clamping distance compensation 70mm.
- ❑ Handle is replaceable.
- ❑ Replace a variety of clamping pad.



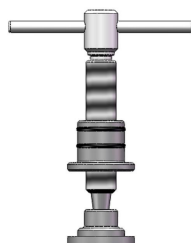
Screw Handle



Hex head



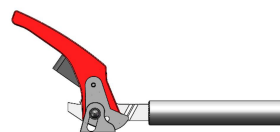
Quick Handle



T-bar screw head



Ratchet adjustable head



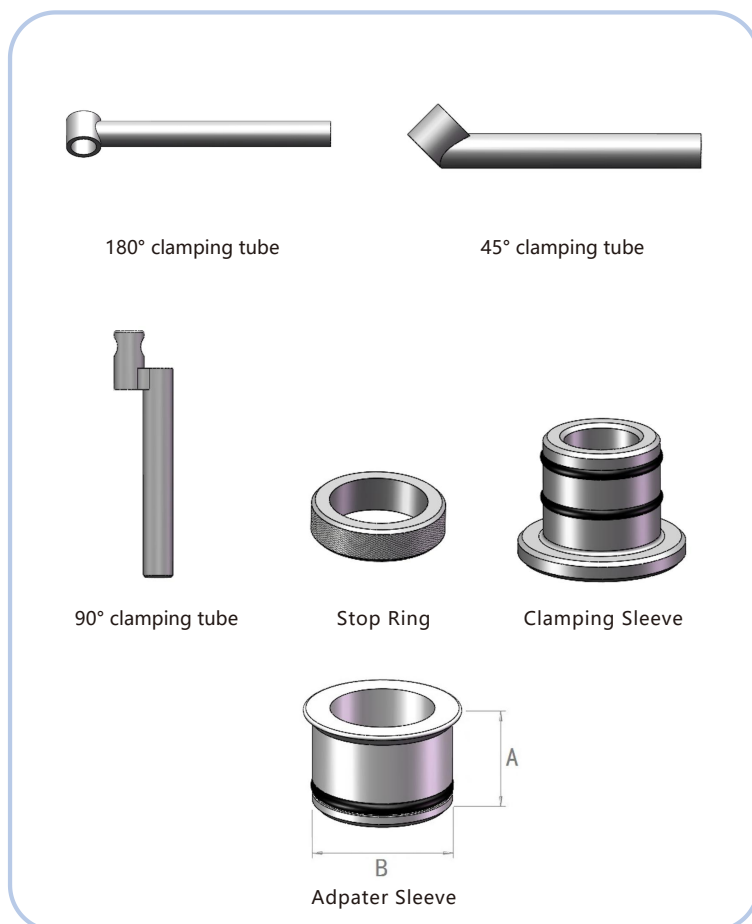
Ratchet clamp arm

Description	SKU Code	NW(kg)
Screw Handle	28-87020-000	0.60
Hex head Handle	28-87020-001	0.82
Quick handle	28-87020-002	0.38
T- Bar Screw handle	28-87020-003	-
Ratchet adjustable handle	28-87020-005	-
Ratchet clamp arm	28-87020-004	-

28 Clamp Accessory

Description:

- ❑ The clamping tube is made of custom cold drawn steel. It features high bending resistance and structural rigidity.
- ❑ 90° clamping tube, head rotates 180°, compensation stroke 70mm.
- ❑ By means of Adapter sleeve 28/16, The 16 clamp can be used in 28 system holes.

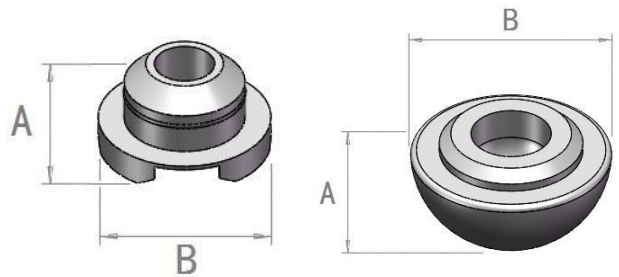


Description	SKU Code	Size mm	NW(kg)
180° clamping tube 270	28-85027-100	length = 270	0.69
180° clamping tube 350	28-85035-100	length = 350	1.06
180° clamping tube 500	28-85050-100	length = 500	1.49
45° clamping tube	28-85022-200	length = 220	0.70
90° clamping tube 220	28-85022-300	length = 220	0.62
90° clamping tube 350	28-85035-300	length = 250	1.05
90° clamping tube 500	28-85050-300	length = 500	1.48
Stop Ring	28-87003-000	-	0.04
Clamping Sleeve 28	28-87002-000	height = 30	-
Adapter sleeve for 28/16	00-86013-000	height = 20.5	0.05

28 Clamping Pad

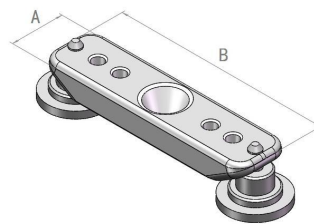
Description:

- ❑ Clamping pads are interchangeable and universal.
- ❑ The clamping pad itself can serve as a 5mm spacer and be inserted into 28 system holes.
- ❑ 2P-Clamping Bridge can be adjustable clamping distance: 65, 97 and 130 mm.
- ❑ Clamp sleeve 450/900, Mostly used for adjusting clamping or positioning angles.



General clamping pad

Ball head clamping pad



2P-Clamping Bridge



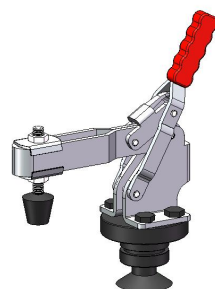
Clamping Sleeve 45°/ 90°

Description	SKU Code	A x B mm	NW(kg)
General Clamping Pad, Steel	28-87011-010	22×40	0.10
General Clamping Pad, Stainless Steel	28-87011-011	22×40	0.10
General Clamping Pad, Polyamide	28-87011-012	22×40	0.02
General Clamping Pad, Aluminium	28-87011-019	22×40	0.10
Ball head Clamping Pad, Steel	28-87011-003	21×35	0.09
Ball head Clamping Pad, Stainless Steel	28-87011-004	21×35	0.09
Ball head Clamping Pad, Polyamide	28-87011-005	21×35	0.01
Ball head Clamping Pad, Aluminium	28-87011-000	21×35	0.07
2P - Clamping Bridge	28-87018-000	140 x 35	0.62
Clamp Sleeve 90°	28-87034-000	-	0.28
Clamp Sleeve 45°	28-87035-000	-	0.26

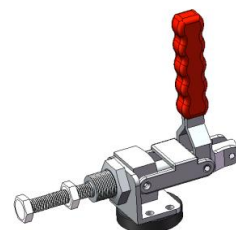
28 Toggle Clamp With Round Pad

Description:

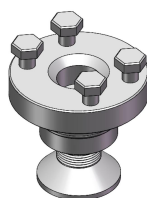
- ❑ Round pad with vertical toggle clamp or horizontal toggle clamp.
- ❑ Suitable for fast clamping the light workpiece .
- ❑ Use for batch production.



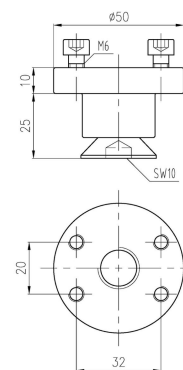
Vertical Toggle Clamp



Horizontal Toggle Clamp



Adapter of Clamp D 50mm

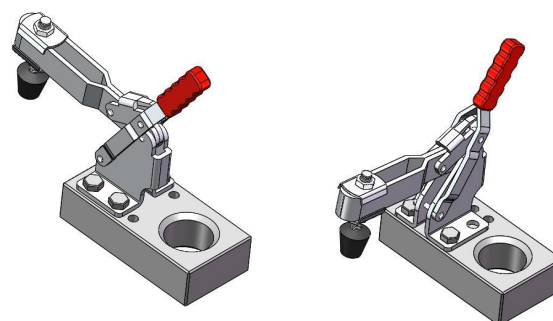


Description	SKU Code	Clamping Force N	NW(kg)
Vertical toggle clamp	28-86001-000	2226.11	0.70
Horizontal toggle clamp	28-86002-000	1471.00	0.70
Adaptor of clamp D50mm	28-86001-100	-	0.20

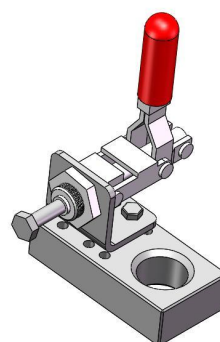
28 Toggle Clamp With Stop

Description:

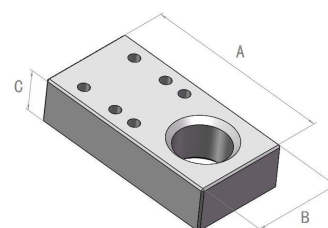
- Flexible clamping position.
- Suitable for fast clamping the light workpiece.
- Use for batch production.



Vertical Toggle Clamp



Horizontal Toggle Clamp

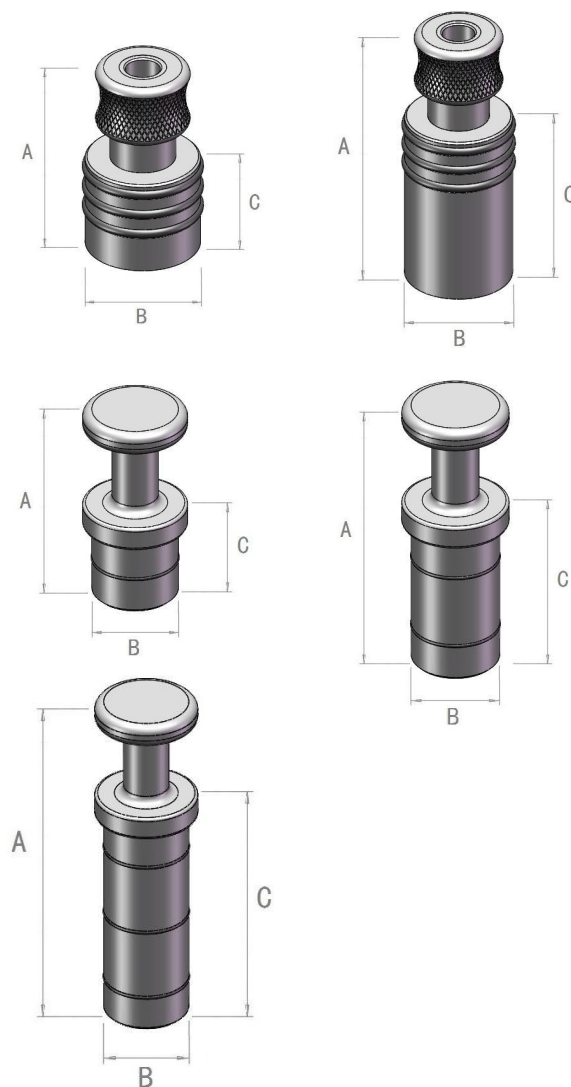


Description	SKU Code	Clamping Force N	A x B x C mm	NW(kg)
Vertical toggle clamp	28-86001-001	2226.11	-	0.80
Horizontal toggle clamp	28-86002-001	1471.00	-	0.80
Adaptor of clamp D50mm	28-86001-101	-	100 x 50 x 25	0.60

28 Magnetic Chuck

Description:

- ❑ Magnetic attraction force 70N.
- ❑ Used in sheet metal parts directly attached on the positioning surface.
- ❑ Material: mild steel or Aluminium alloy.

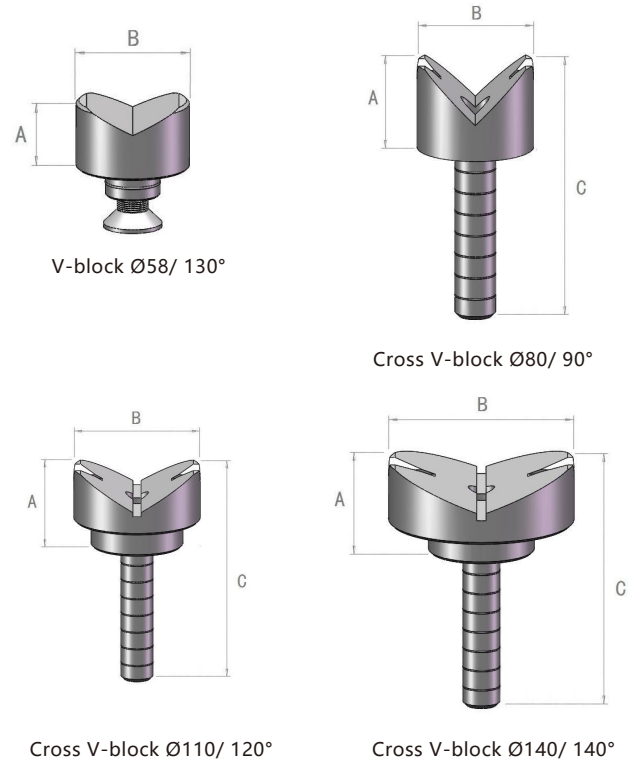


Description	SKU Code	A x B x C mm	NW(kg)
Magnetic chuck short	28-86024-000	49 x 28 x 24	0.20
Magnetic chuck long	28-86024-001	92 x 28 x 47	0.30
Magnetic bolt short, aluminium	28-86024-010	68 x 28 x 28	0.10
Magnetic bolt long, aluminium	28-86024-011	93 x 28 x 52	0.13
Magnetic bolt long, aluminium	28-86024-012	118 x 28 x 77	0.16

28 V-Block

Description:

- ❑ Apply to pipes and round workpieces.
- ❑ V-block Ø58/ 130° is suitable for the workpieces with diameters less than 70mm.
- ❑ Cross V-block Ø80/ 90° is suitable for the workpieces with diameters less than 70mm.
- ❑ Cross V-block Ø110/ 120° is suitable for the workpieces with diameters less than 180mm.
- ❑ Cross V-block Ø140/ 140° is suitable for the workpieces with diameters less than 400mm.

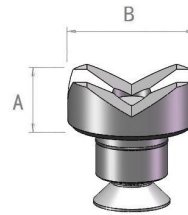


Description	SKU Code	A x B x C mm	NW (Kg)
V-block Ø58/ 130°	28-90058-000	35 x 58	0.68
V-block Ø58/ 130°, Polyamide	28-90058-001		0.14
V-block Ø58/ 130°, Stainless Steel	28-90058-002		0.70
Cross V-block Ø80/ 90° with shaft	28-90080-000	180 x 80 x 60	2.16
Cross V-block Ø80/ 90° with shaft, Polyamide	28-90080-001		0.88
Cross V-block Ø80/ 90° with shaft, Stainless Steel	28-90080-002		2.18
Cross V-block Ø110/ 120° with shaft	28-90110-000	190x110x70	3.70
Cross V-block Ø110/ 120° with shaft, Polyamide	28-90110-001		1.10
Cross V-block Ø110/ 120° with shaft, Stainless Steel	28-90110-002		3.82
Cross V-block Ø140/ 140° with shaft	28-90140-000	190x140x70	5.22
Cross V-block Ø140/ 140° with shaft, Polyamide	28-90140-001		1.32
Cross V-block Ø140/ 140° with shaft, Stainless Steel	28-90140-002		5.30

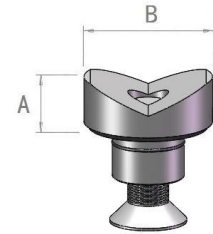
28 V-Block

Description:

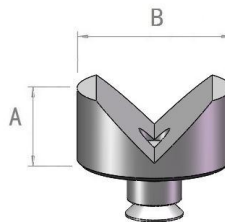
- ❑ Apply to pipes and round workpieces.
- ❑ V-Block Ø50/ 135° is suitable for the workpieces with diameters less than 80mm.
- ❑ V-Block Ø60/ 135° is suitable for the workpieces with diameters less than 80mm.
- ❑ V-Block Ø80/ 90° is suitable for the workpieces with diameters less than 100mm.
- ❑ V-Block Ø120/ 157° is suitable for the workpieces with diameters less than 400mm.



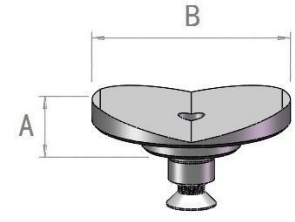
V-block Ø50/ 135°



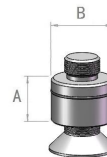
Cross V-block Ø60/ 135°



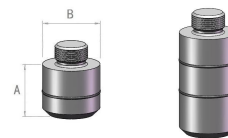
Cross V-block Ø80/ 90°



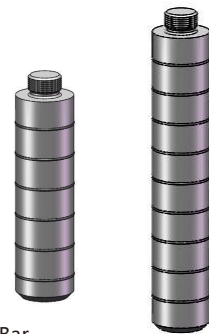
Cross V-block Ø120/ 157°



Collar Screw Bolt



Extension Bar



Description	SKU Code	A x B x C mm	NW (Kg)
V-block Ø50/ 135° with screwed-in collar	S28-90050-000	20 x 50	0.68
V-block Ø60/ 135° with screwed-in collar	S28-90060-000	30 x 60	0.14
V-block Ø80/ 90° with screwed-in collar	S28-90080-000	40 x 80	0.70
V-block Ø120/ 157° with screwed-in collar	S28-90120-000	30 x 120	2.16
Extension Bar 25/ 50/ 100/ 150	S28-91025/91050/91100/91150-000	length = 25/ 50/ 100/ 150	-
Collar screw bolt	S28-91050-000	17 x 28	2.18

28 Support Accessory

Description:

Height adjustment set:

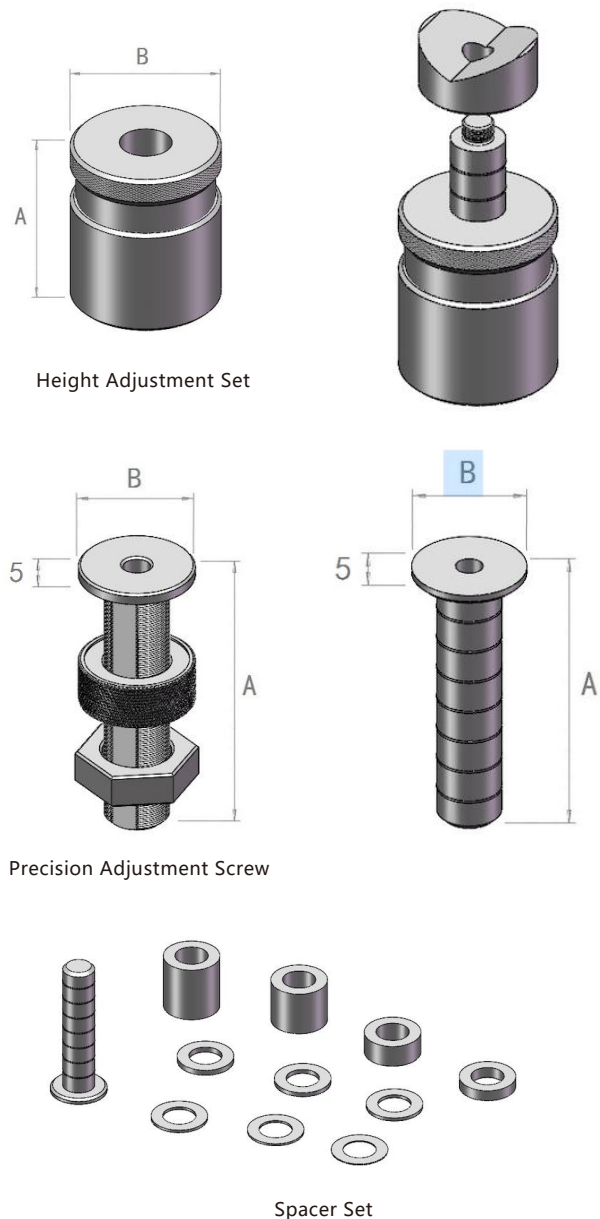
- ❑ Used with V-blocks, adjust the height of positioning location.
- ❑ Adjustable height 75-95 mm.
- ❑ At the top of the hole can be directly use STQ bolt lock.

Precision Adjustment Screw:

- ❑ Positioning the distance and height of the workpiece.
- ❑ The adjusting range 22-105 mm.
- ❑ Adjust the distance accuracy to 0.1 mm.
- ❑ The maximum load 10KN.

Spacer set 11- pieces:

- ❑ The thickness of the Spacer: 1, 2, 2.5, 3, 4, 5, 10, 20, 40, 50 mm.
- ❑ Positioning the distance or height: 5-100mm.
- ❑ Can be used with v-block.
- ❑ Combine with stop and angle, constitute all of the required sizes to position workpieces.



Description	SKU Code	A x B mm	NW (Kg)
Height adjustment set	28-90009-000	(75-90) x 80	2.34
Precision Adjustment Screw Φ50	28-90005-000	120 x 50	0.80
Spacer set 11- pieces	28-90001-000	(120 + 5) x 28	1.96

28 Accessory

Description:

- ❑ Ball head hex wrench SW14 for STQ bolt, Ball Bolt and table legs.
- ❑ Ball head hex wrench SW10 for connection bolt.
- ❑ Ball head hex wrench SW8 for STQ countersunk bolt.
- ❑ Ball head hex wrench SW5 for adapter of toggle clamp.
- ❑ Torque wrench preset torque 60Nm for bolts SW14, including socket SW14、SW10、SW8、SW6、SW4.
- ❑ Multi-purpose wrench can be used lifting bolts.



Hexagon Wrench



Multi-purpose Wrench



Torque Wrench



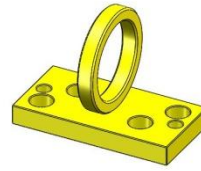
Torch Support

Description	SKU Code	Specification	NW (Kg)
Hexagon wrench Universal Tool	00-C0008-004	SW 4	0.01
Hexagon wrench Universal Tool	00-C0008-005	SW 5	0.06
Hexagon wrench Universal Tool	00-C0008-006	SW 6	0.02
Hexagon wrench Universal Tool	00-C0008-008	SW 8	0.10
Hexagon wrench Universal Tool	00-C0008-010	SW 10	0.17
Hexagon wrench Universal Tool	00-C0008-014	SW 14	0.32
Special wrench 28	28-C0016-001	-	0.72
Torque wrench Universal Tool	28-C0010-000	SW14, SW10, SW8, SW6, SW4	0.76
Torch support	00-C0200-000	-	0.20

28 Accessory

Description:

- Ground connector, use for 28 series and 16 series.
- Transport ring loads 2500kg.
- Round brush material is stainless steel. The brush head is replaceable.



Transport ring



Ground connector



Round Brush



Bench Stone



Pump bottle



Anti-Spatter Spray

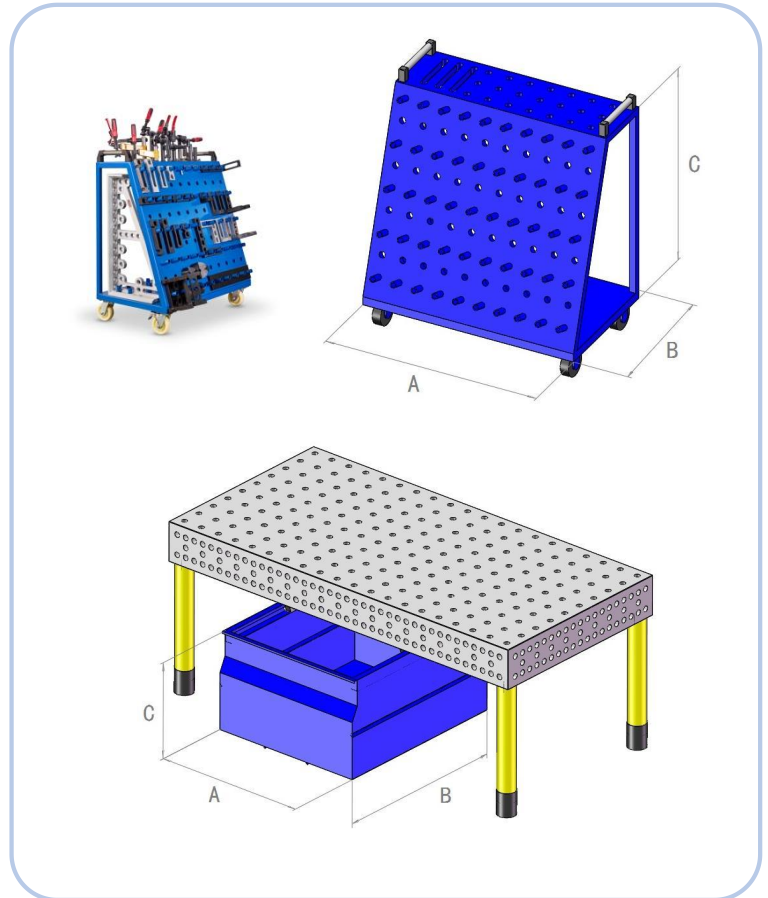
Description	SKU Code	Specification	NW (Kg)
Transport ring	00-C0001-000	-	4.72
Ground connector	00-C0009-000	-	0.34
Round brush	28-C0002-000	-	0.12
Bench stone	00-C0007-000	-	0.56
Pump bottle	00-C0004-000	1 Litre	0.10
Anti-spatter spray	00-C0006-000	5 Litre	5.00
Anti-spatter spray	00-C0006-001	20 Litre	20.00

28

Accessory Cart/ Storage Drawer

Description:

- ❑ Maintain a clean working area.
- ❑ All accessories can be neatly stored and organized.
- ❑ Four wheels, with two featuring brakes.
- ❑ Maximum load capacity of 300kg.
- ❑ Storage drawer max. load: 180kg



Description	SKU Code	A x B x C mm	NW (Kg)
Accessory Cart	28-C1001-000	1000 x 650 x 1100	60
Storage Drawer	28-C1002-000	780 x 980 x 520	65

22

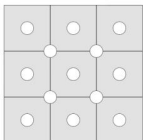
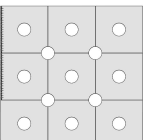
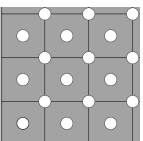
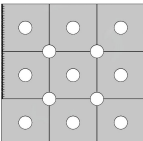
3D Module Welding Fixture

It covers over 80% of conventional conditions



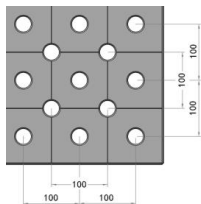
22

3D Welding Table

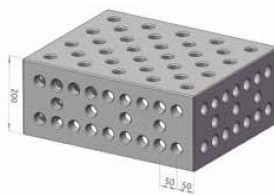
Image	SKU Code	Dimensions(mm)	Description	Net weight(kg)
 Basic Type	P22-01010-000	1000×1000×150	3D Q355 steel table, diagonal grid hole 100x100mm.	187
	P22-02010-000	2000×1000×150		402
	P22-02412-000	2400×1200×150		595
	P22-03015-000	3000×1500×150		785
 Dimensioned Type	P22-01010-100	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, diagonal grid hole 100x100mm.	187
	P22-02010-100	2000×1000×200		402
	P22-02412-100	2400×1200×200		595
	P22-03015-100	3000×1500×200		785
 Hardened Type	P22-01010-020	1000×1000×200	3D Q355 steel table, hardened surface, HRC 35 diagonal grid hole 100x100mm.	187
	P22-02010-020	2000×1000×200		402
	P22-02412-020	2400×1200×200		595
	P22-03015-020	3000×1500×200		785
 Hardened & Dimensioned type	P22-01010-120	1000×1000×200	3D Q355 steel table, with 4 sides mm scale, hardened surface, HRC 35 diagonal grid hole 100x100mm.	187
	P22-02010-120	2000×1000×200		402
	P22-02412-120	2400×1200×200		595
	P22-03015-120	3000×1500×200		785

Other non-standard sizes can be customized.

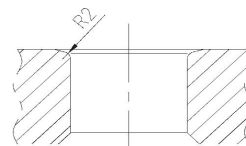
Diagonal grid hole 100x100mm.



Four Side



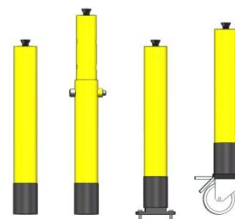
Protective filleted corner



No. of legs

Table size	Qty
1000×1000×200	4
2000×1000×200	4
2400×1200×200	4
3000×1500×200	6

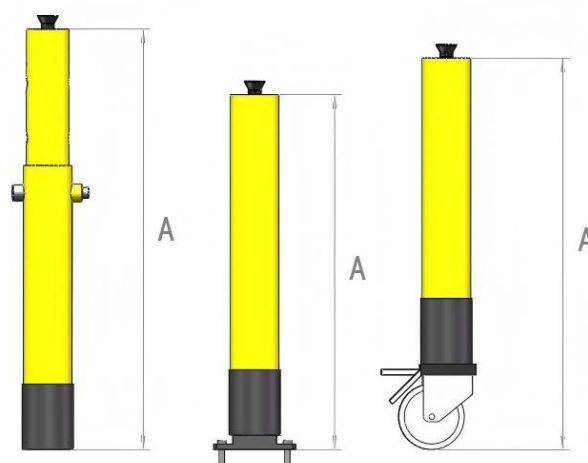
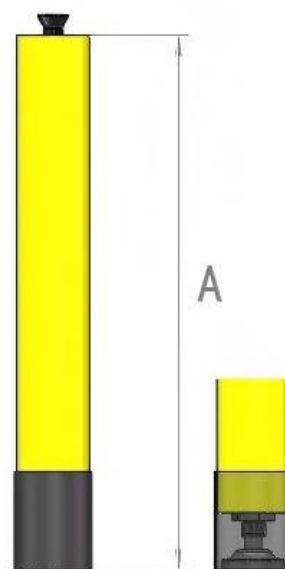
Leg types



22 Table Legs

Description:

- ❑ All types of legs can be adjusted height $\pm 30\text{mm}$.
- ❑ The loads of standard leg or anchored leg are less than or equal to 3 tons.
- ❑ The load of telescoping legs is less than 3 tons.
- ❑ Wheel leg max. load is 500 kg.
- ❑ More dimensions on request.
- ❑ Countersunk screw for installation M24x60.
- ❑ Use Allen wrench SW14.



Description	SKU Code	A mm	Kg
Standard Leg	22-B0010-000	700 $\pm$ 30	9.00
Telescoping Leg	22-B0010-001	(600-950) $\pm$ 30	11.00
Wheel Leg with Brake	22-B0010-002	700 $\pm$ 30	11.90
Wheel Leg without Brake	22-B0010-003	700 $\pm$ 30	10.50
Anchored Leg	22-B0010-004	700 $\pm$ 30	10.50

22 Hydraulic Lift

Description:

- ❑ Lift to any comfortable working position.
- ❑ Max. load: 2, 3, 4.5 tons; or according to the need of the clients' spec.
- ❑ Equipped with high performance of hydraulic pump station and electric control system.

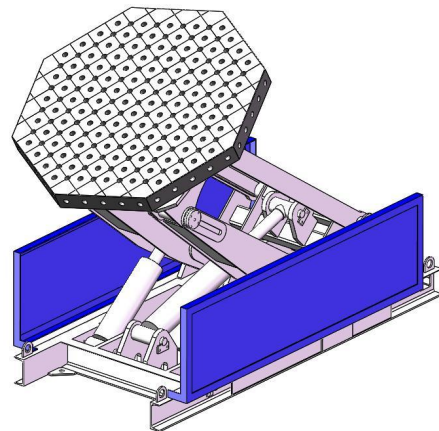
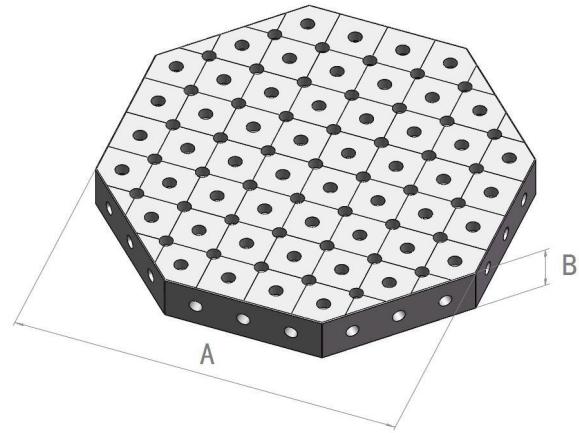


Description	SKU Code	Length×Width mm	Kg
Hydraulic Lifting Table; Max Load: 2 tons; Lifting height: 320–1220 mm	HL-00020-000	1300×1000	600
Hydraulic Lifting Table; Max Load: 3 tons; Lifting height: 350–1550 mm	HL-00030-000	1800×1800	800
Hydraulic Lifting Table; Max Load: 3 tons, Lifting height: 350–1550mm, with casters	HL-00030-001	1800×1800	800
Hydraulic Lifting Table; Max Load: 4.5 tons, Lifting height: 580–2080mm	HL-00045-000	2500×1500	1500

22 Octagonal Platform

Description:

- ❑ Mainly used on a positioner of a robot cell.
- ❑ 9 sides for clamping, the fixture tools are the same as the welding table.
- ❑ Other non-standard sizes can be customized.
- ❑ Connection size of the positioner is needed before order.



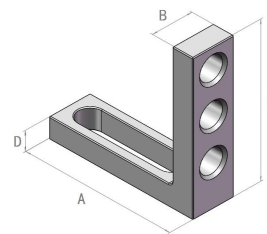
Description	SKU Code	A x B mm	Kg
Octagonal Platform; Diagonal SW 600	22-10600-000	SW 600×100	70
Octagonal Platform; Diagonal SW 800	22-10800-000	SW 800×100	110
Octagonal Platform; Diagonal SW 1000	22-11000-000	SW 1000×100	160

22

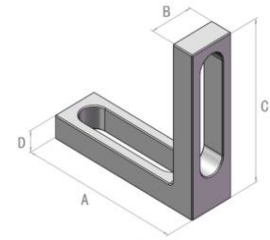
2 Sided Locating Angle

Description:

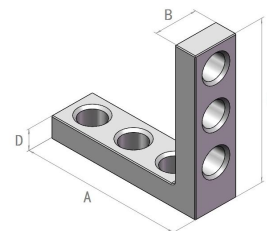
- ❑ Most Commonly used angle.
- ❑ 2 sides for locating and clamping.
- ❑ Different located options by combining the bores and slot.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on either side of the slot.
- ❑ Surface hardening treatment optional.
- ❑ Option materials: Stainless steel, aluminium alloy, high alloy tool steel.
- ❑ IT7 high precision production



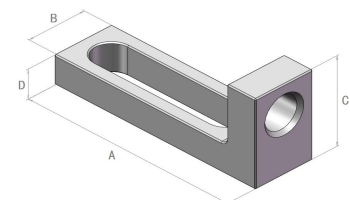
L175 Bores / Slot



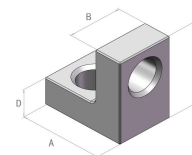
L175 Slot / Slot



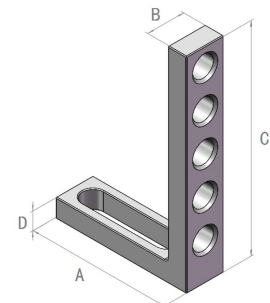
L175 Bores / Bores



L175 Bore / Slot



L75 Bore / Bore



L275 Bores / Slot

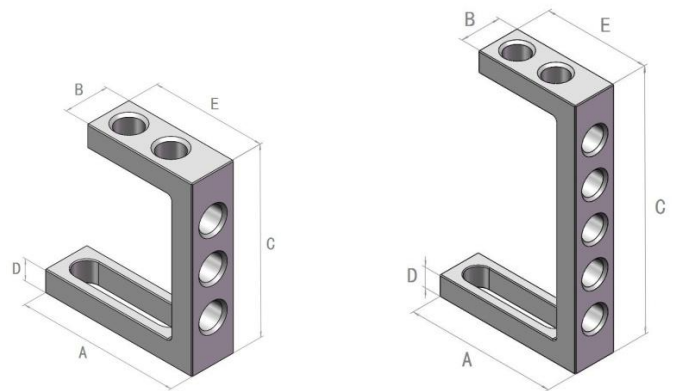
Description	SKU Code	A x B x C x D mm	NW(kg)
2 Sided Angle L175 Bores / Slot, with scale and hardening	22-30175-120	175 × 50 × 175 × 18	1.70
2 Sided Angle L175 Slot / Slot, with scale and hardening	22-30175-121		1.50
2 Sided Angle L175 Bores / Bores, with scale and hardening	22-30175-022		1.80
2 Sided Angle L75 Bore / Bore, surface hardening	22-30075-020	75 × 75 × 50 × 18	0.98
2 Sided Angle L175 Bore / Slot, with scale and hardening	22-30175-123	175 × 50 × 75 × 18	1.40
2 Sided Angle L275 Bores / Slot, surface hardening	22-30275-000	175 × 50 × 275 × 25	2.80

22

3 Sided Locating Angle

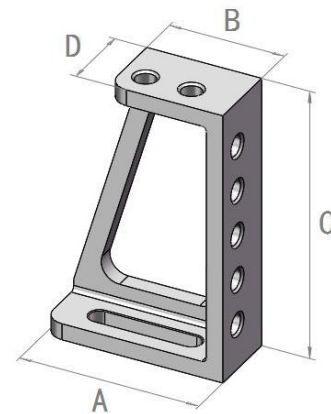
Description:

- ❑ 3 sides for locating and clamping.
- ❑ Different located options by combining the bores and slot.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on either side of the slot.
- ❑ Surface hardening treatment optional.
- ❑ Option materials: Stainless steel, aluminium alloy, high alloy tool steel.
- ❑ IT7 high precision production



L200 Top two bores

L300 Top two bores



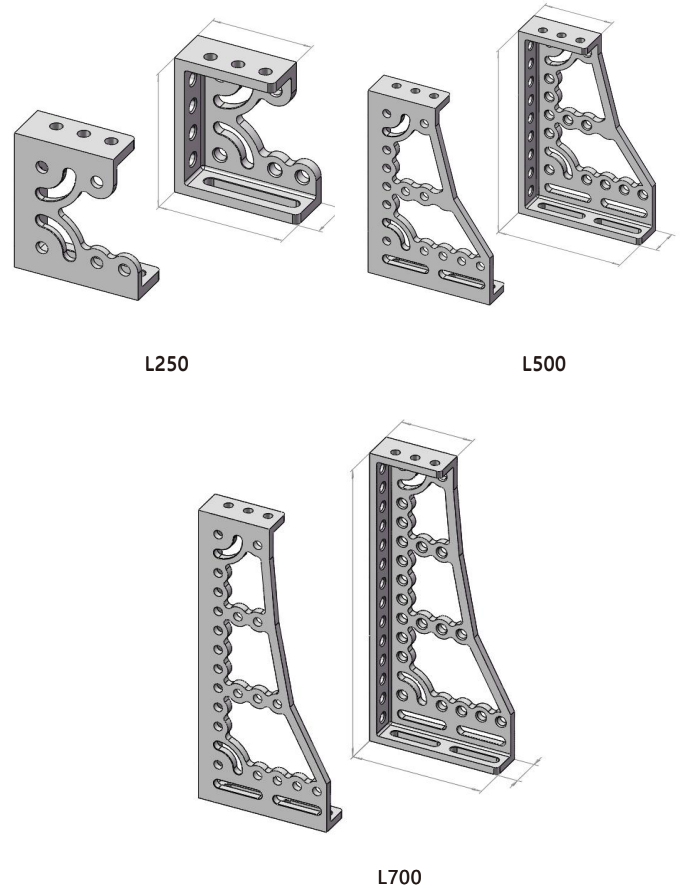
Thrust and Mounting Angle

Description	SKU Code	A x B x C x D x E mm	NW(kg)
3 Sided Angle L200, Top two bores, with scale and hardening	22-30075-020	225 x 50 x 200 x 18 x 125	2.80
3 Sided Angle L300, Top two bores, with scale and hardening	22-30175-123	175 x 50 x 300 x 18 x 125	3.00
Thrust and Mounting Angle, with scale and hardening	S22-30275-000	195 x 125 x 300 x 80	2.90

22 4 Sided Locating Angle

Description:

- ❑ Material: High strength aluminum alloy. 60% less weight.
- ❑ 4 support surfaces for locating and clamping.
- ❑ Multiple adjustment by combining the bores and slots.
- ❑ Can be a stop and table extension for heavy workpieces.
- ❑ Precision scales on request.
- ❑ Ordering in pairs is recommended.



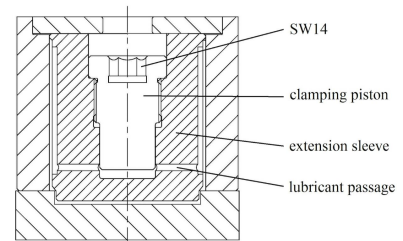
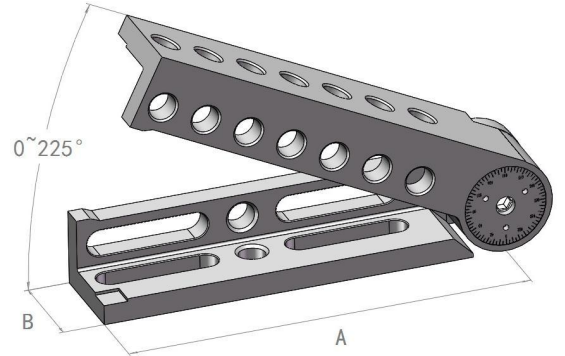
Description	SKU Code	A x B x C mm	NW(kg)
4 Sided Angle L250, Right, aluminium	22-30325-000	225 × 180 × 250	3.50
4 Sided Angle L250, Left, aluminium	22-30325-001		
4 Sided Angle L500, Right, aluminium	22-30500-000	325 × 180 × 500	6.50
4 Sided Angle L500, Left, aluminium	22-30500-000		
4 Sided Angle L750, Right, aluminium	22-30750-000	325 × 180 × 750	8.50
4 Sided Angle L750, Left, aluminium	22-30750-000		

22

Adjustable Angle Ruler

Description:

- ▣ Adjust from 0 –225 °.
- ▣ The hydraulic locking mechanism.
- ▣ Holding force to 1500Nm.
- ▣ Precision angle scale.
- ▣ Surface hardening treatment.
- ▣ Optional materail: Aluminum alloy.

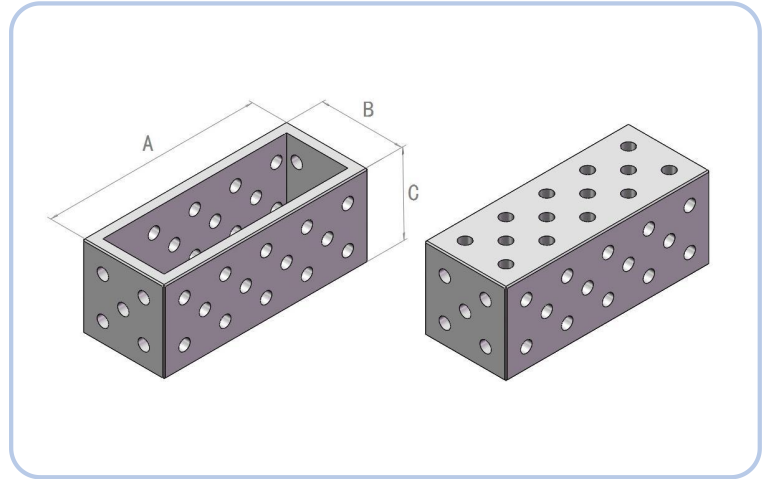


Description	SKU Code	A x B x C mm	NW(kg)
Adjustable Angle Ruler Right	22-30425-001	425 x 100	22.00
Adjustable Angle Ruler Left	22-30425-002		
Adjustable Angle Ruler Right, Aluminum	22-30425-003		7.00
Adjustable Angle Ruler Left, Aluminum	22-30425-004		

22 U-shape Block

Description:

- ❑ 5 sides support surfaces
- ❑ Optional material: high alloy steel; aluminum alloy, stainless steel
- ❑ Surface hardening treatment available

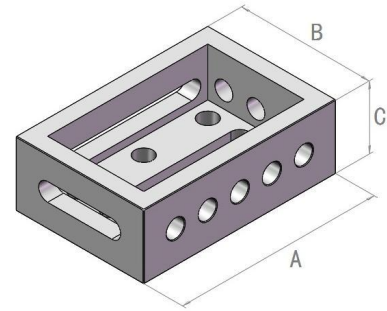


Description	SKU Code	A x B x C mm	NW(kg)
U-shape block 500	22-40050-000	500 × 150 × 150	30.00
U-shape block 500, surface hardening	22-40050-020	500 × 150 × 150	30.00
U-shape block 1000	22-40100-000	1000 × 150 × 150	55.00
U-shape block 1000, surface hardening	22-40100-020	1000 × 150 × 150	55.00

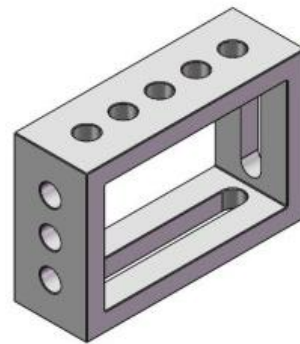
22 Support Module

Description:

- ❑ Multiduty block.
- ❑ Height direction supporting and positioning.
- ❑ Table and other modules extension.
- ❑ Surface hardening treatment.
- ❑ Optional: Aluminium alloy.



Support Module



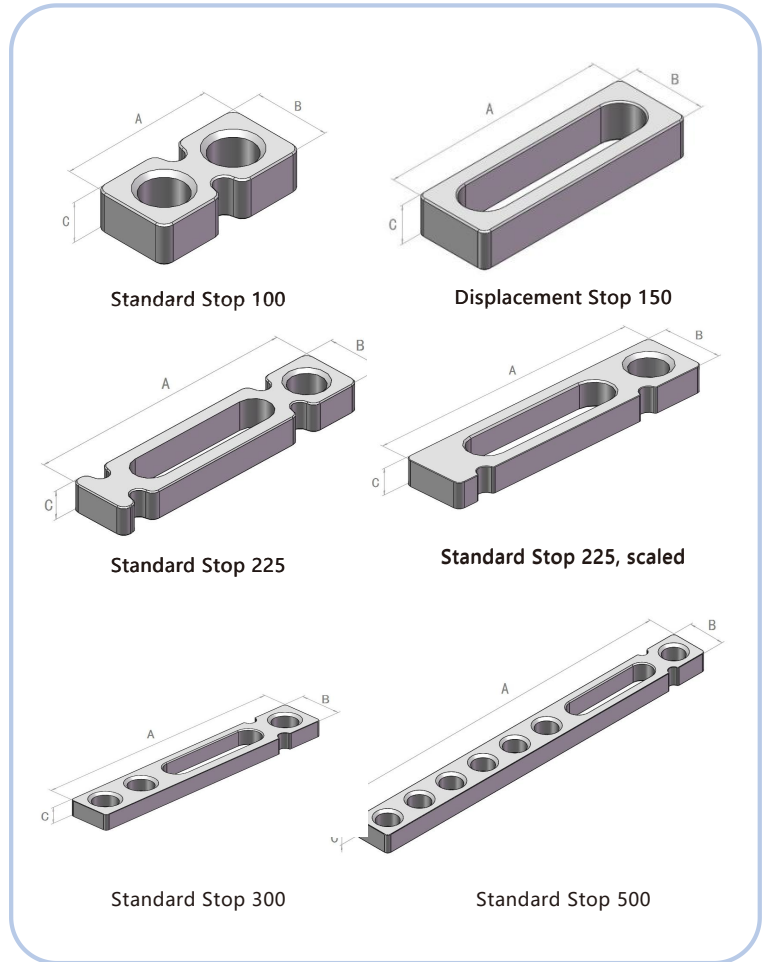
Support Frame

Description	SKU Code	A x B x C mm	NW(kg)
Support Module, surface hardening	22-93020-001	300×200×75	2.50
Support Frame, surface hardening	22-93020-005	300×200×75	1.90

22 Stop

Description:

- ❑ Standard positioning stop.
- ❑ More easy and quick handling.
- ❑ The grooves allow direct positioning of the right angle surface.
- ❑ Standard stops form multiples of 25 mm dimension chain.
- ❑ IT7 high precision product.
- ❑ Option: Stainless steel, aluminium alloy, Super hardened tool steel HRC60.



Description	SKU Code	A x B x C mm	NW(kg)
Standard Stop with groove 100, surface hardening	22-50010-022	100×50×18	0.55
Displacement Stop 150, surface hardening	22-50150-020	150×50×18	0.70
Standard Stop with groove 225, surface hardening	22-50022-020	225×50×18	1.00
Standard Stop with groove 225, scaled, surface hardening	22-50030-022	225×50×18	1.00
Standard Stop with groove 300 surface hardening	22-50050-022	300×50×18	1.50
Standard Stop with groove 500, surface hardening	22-50022-122	500×50×18	3.20

22

Plate Stop / Flat Angle / Eccentric Stop

Description:

Plate Stop:

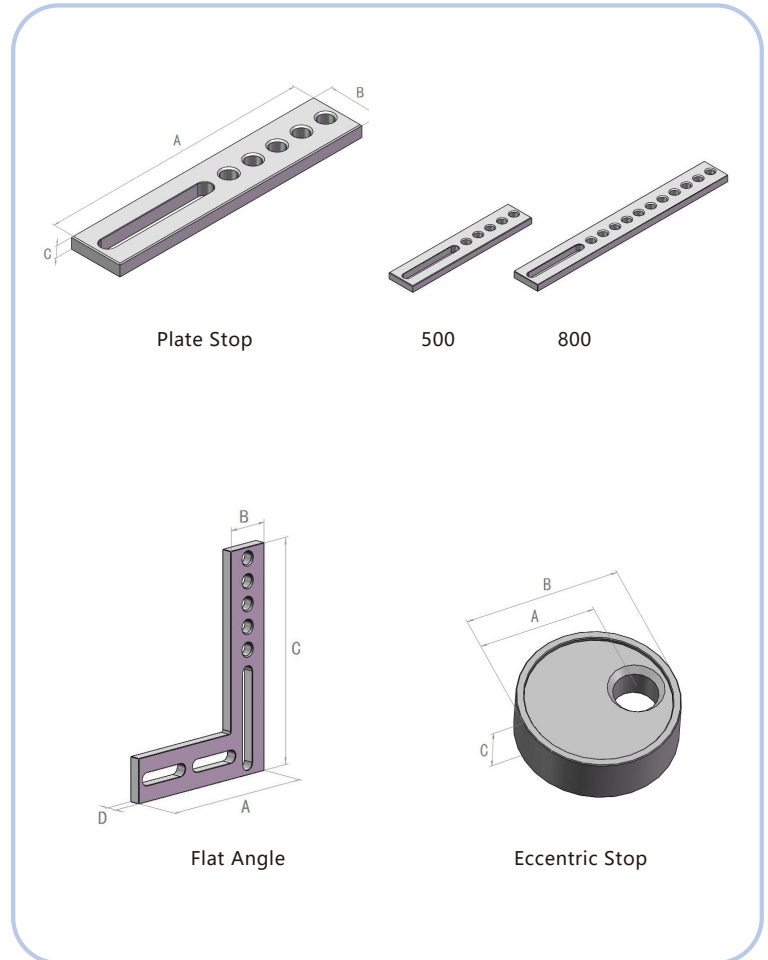
- Commonly used as a side stop.
- 200mm long slot allows for infinite adjustment.
- Surface blackening treatment

Flat Angle:

- Locating at 90° angles by interior and exterior.
- Multiple options by combining the bores and slots.
- Surface blackening treatment

Eccentric Stop:

- Use as a stop or support for irregular distance adjustment.
- Connect with standard bolt, adjusted by rotating.
- Suitable for small space use.
- Surface blackening treatment

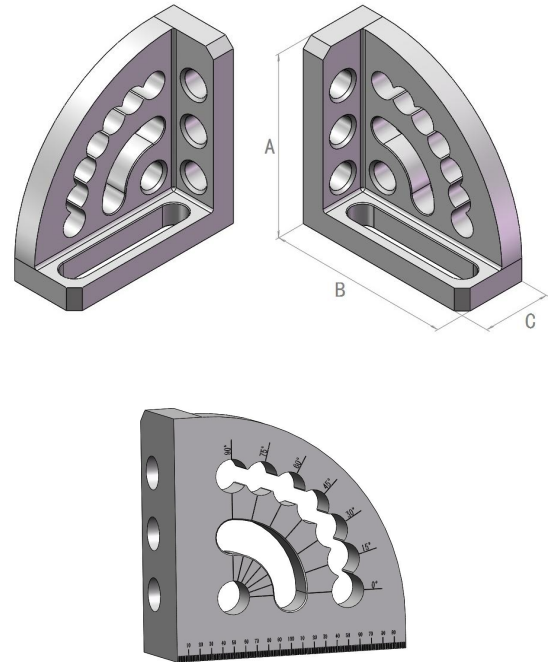


Description	SKU Code	A x B x C x D mm	NW(kg)
Plate Stop 500	22-50050-001	500×100×18	6.00
Plate Stop 800	22-50080-001	800×100×18	9.50
Plate Stop 350	22-35235-000	250×100×350×18	5.00
Plate Stop 500	22-35500-000	375×100×500×18	11.00
Standard Stop with groove 300 surface hardening	22-52075-000	50×75×18	0.60

22 Angle Bracket

Description:

- ❑ Multifunctional stop.
- ❑ Easy to locate angle on table.
- ❑ Quick locating at 15°, 30°, 45°, 60°
- ❑ Slot can be adjusted from 0° to 90° .
- ❑ Black oxide finish.



Description	SKU Code	A x B x C mm	NW(kg)
Angle Bracket, Right	22-52020-004	200×200×75	2.10
Angle Bracket, Left	22-52020-005	200×200×75	2.10

22 STQ Bolt

Description:

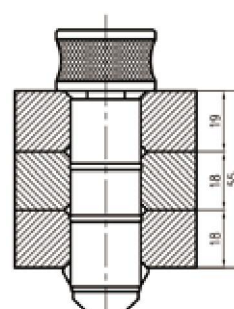
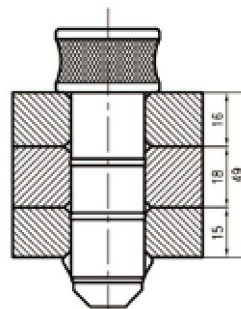
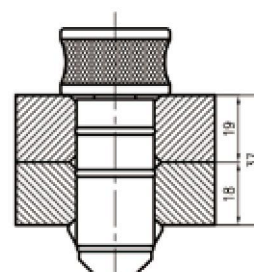
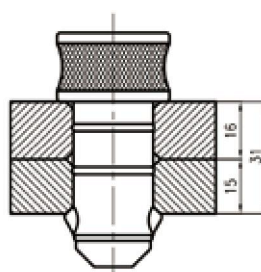
- ❑ 3 Cones design makes space contact.
- ❑ Strong clamping force.
- ❑ Take away hoop and 3 cones out for easy cleaning.
- ❑ No damage to the reverse of system bores.
- ❑ Using by one hand.
- ❑ Connect table with table, stop, angle, adapter plates, transport rings, etc.
- ❑ Clamp by hex wrench SW10/SW8.
- ❑ Surface HRC50.



STQ Bolt



STQ Countersunk Bolt



Description	SKU Code	A x B mm	NW(kg)
STQ Bolt short	22-60041-001	22×31	0.25
STQ Bolt long	22-60041-002	22×31	0.30
STQ Countersunk Bolt short	22-60042-001	22×25	0.20
STQ Countersunk Bolt long	22-60042-002	22×25	0.25

22

Connection Bolt/ Positioning Bolt

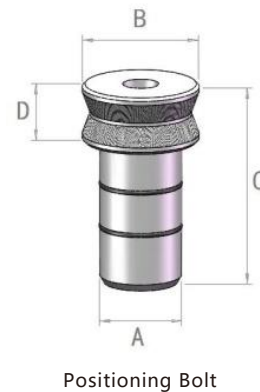
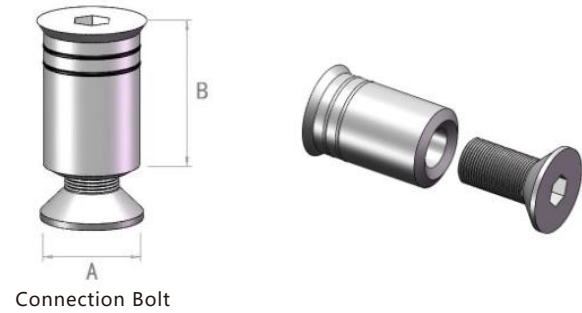
Description:

Connection Bolt

- ❑ Connection pin be used for long term connection.
- ❑ Use for connect table to table or block and stop for system bores.
- ❑ Clamp by hex wrench SW8

Positioning Bolt

- ❑ Locating pin without locking.
- ❑ Usually use with STQ bolt together.
- ❑ Economical substitute for a 2nd clamping bolt.



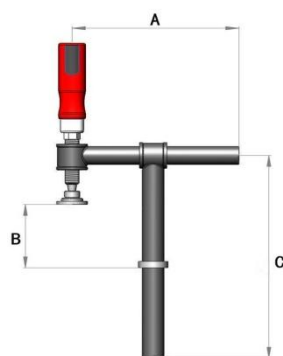
Description	SKU Code	A x B x C x D mm	NW(kg)
Connection Bolt short	22-60003-000	22 x 28.75	0.18
Connection Bolt long	22-60003-001	22 x 48	0.26
Positioning Bolt	22-60009-000	22 x 31 x 52 x 19	0.20

22

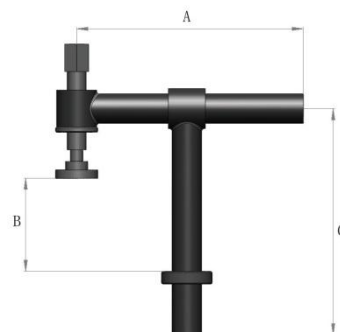
180° Clamp With Various Handles

Description:

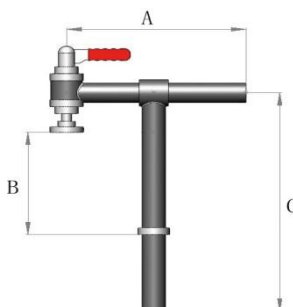
- ❑ Four forms of handles are available for selection.
- ❑ Oval handle makes more powerful.
- ❑ Each part can be used separately and recombined to other kinds of clamps.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ Clamp horizontal and vertical distances are adjustable.



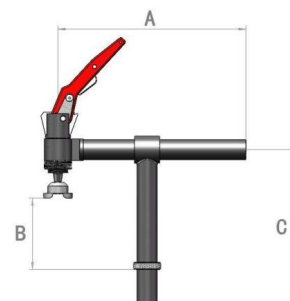
Screw Clamp



Hex head Clamp



Quick Clamp



Ratchet Handle Clamp

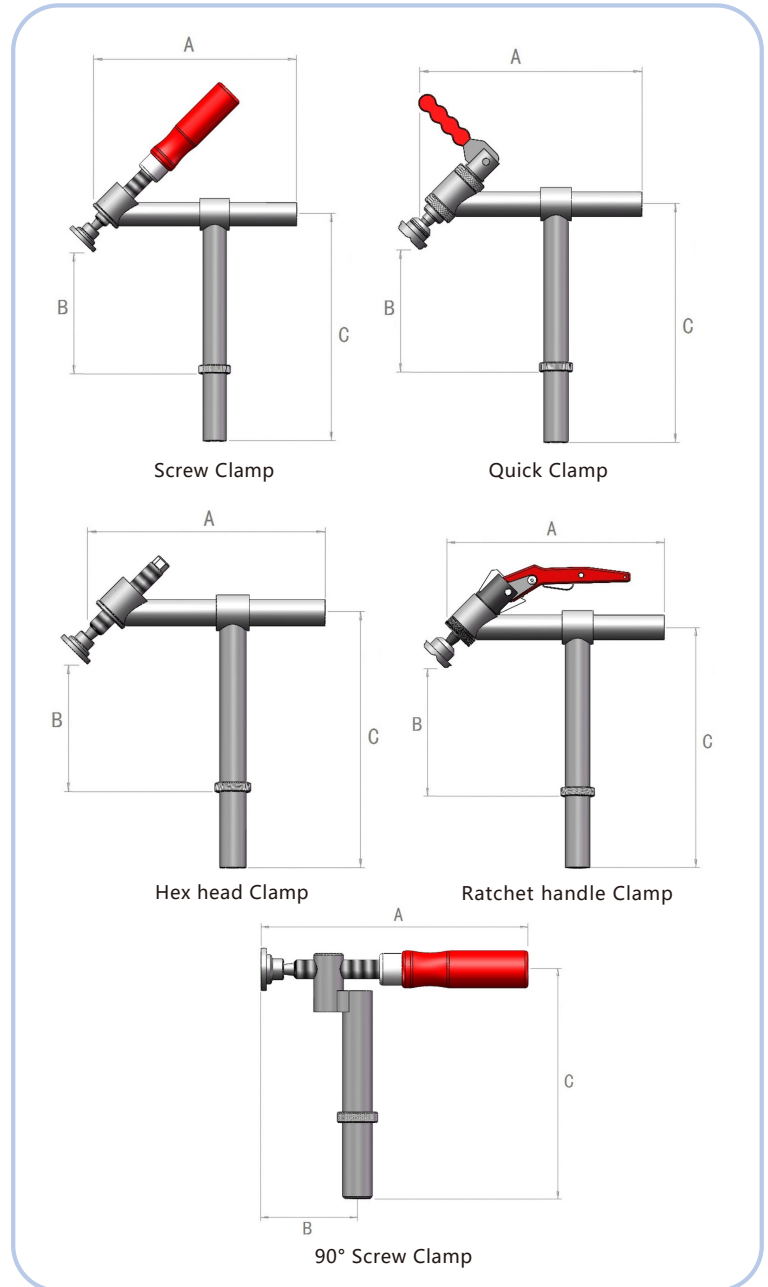
Description	SKU Code	A x B span x C mm	NW(kg)
Screw Clamp, 180°/ 300	22-85030-000	175 x max.180 x 300	1.20
Quick Clamp, 180°/ 300	22-85030-001		1.20
Hex head Clamp, 180°/ 300	22-85030-002		1.50
Ratchet Handle Clamp, 180°/ 300	22-85030-003		1.50

22

45°/90° Clamp With Various Handles

Description:

- Four forms of handles are available for selection.
- Oval handle makes more powerful.
- Each part can be used separately and recombined to other kinds of clamps.
- Handle is replaceable.
- Replace with a variety of clamping pad.
- Clamp horizontal and vertical distances are adjustable.

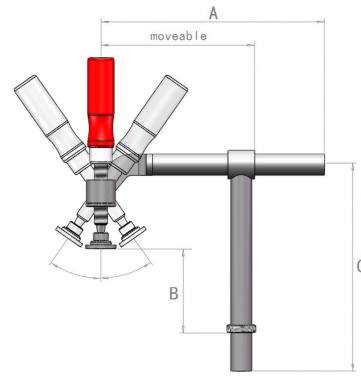


Description	SKU Code	A x B span x C mm	NW(kg)
Screw Clamp, 45°/ 300	22-89030-000	175 x max.180 x 300	1.20
Quick Clamp, 45°/ 300	22-89030-001		1.20
Hex head Clamp, 45°/ 300	22-89030-002		1.50
Ratchet Handle Clamp, 45°/ 300	22-89030-005		1.50
Screw Clamp 90°/ 175	22-88017-000	200 x max.100 x 175	1.20

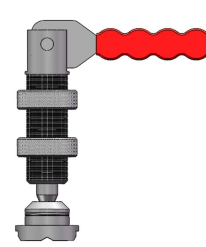
22 Versatile Screw Clamp

Description:

- ❑ Cover the function of 45°, 90° and 180° screw clamp.
- ❑ Adjust $\pm 50^\circ$ and 360° rotation.
- ❑ Various applications can be converted.
- ❑ Can be changed hex or quick head.



Hex head



Quick head



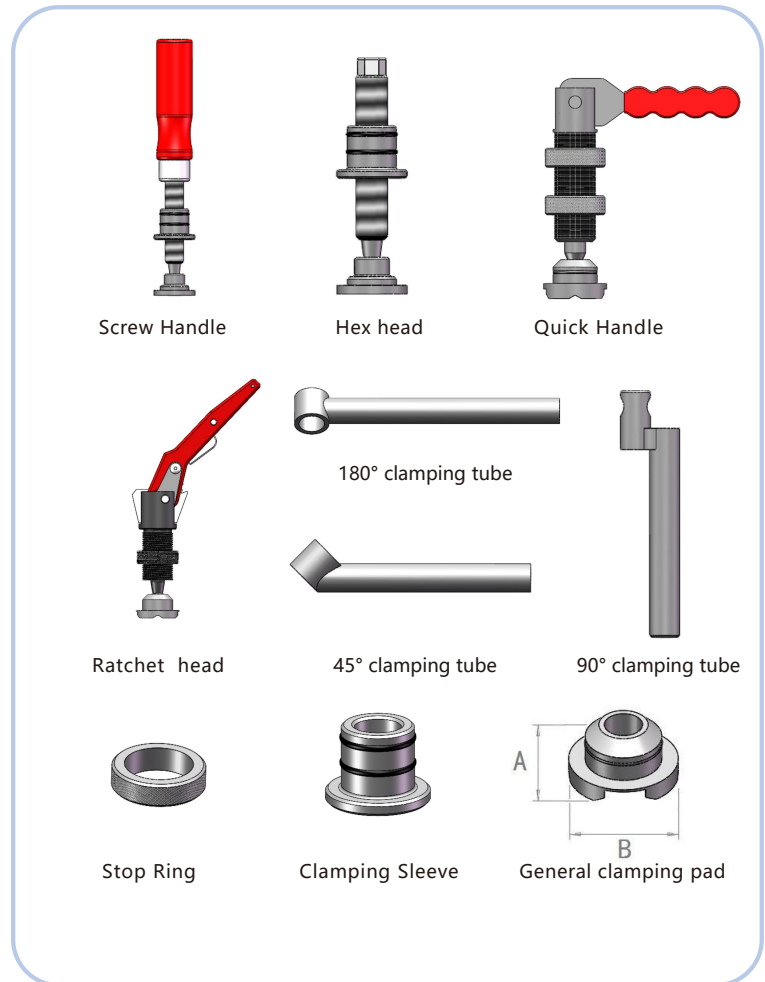
Ratchet head

Description	SKU Code	A x B x C mm	NW(kg)
Versatile screw clamp with screw handle	22-83030-000	175×max.180 ×300	2.00
Versatile screw clamp with hex head	22-60041-001		2.00
Versatile screw clamp with quick head	22-60042-002		2.00
Versatile screw clamp with ratchet head	22-60042-005		2.00

22 Clamp Accessory

Description:

- ❑ Screw handle is made of plastic-rubber composite material to prevent slipping.
- ❑ Height adjustment with stop ring.
- ❑ The clamping distance compensation 70mm.
- ❑ Handle is replaceable.
- ❑ Replace a variety of clamping pad.
- ❑ The clamping tube is made of custom cold drawn steel. It features high bending resistance and structural rigidity.
- ❑ 90° clamping tube, head rotates 180°, compensation stroke 70mm.
- ❑ By means of Adapter sleeve 28/16, The 16 clamp can be used in 28 system holes.
- ❑ Clamping pads are interchangeable and universal.

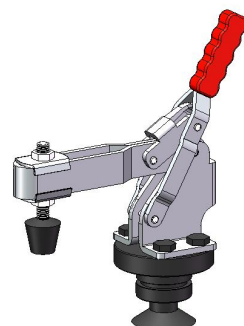


Description	SKU Code	Size mm	NW (kg)
Screw Handle	22-87020-000		0.50
Hex head Handle	22-87020-001		0.38
Quick handle	22-87020-002		0.50
Ratchet handle	22-87020-005		-
180° clamping tube 220	22-85022-100	length = 220	0.60
45° clamping tube 220	22-85022-200	length = 220	0.60
90° clamping tube 220	22-85022-300	length = 220	0.60
Stop Ring	22-87003-000	-	0.03
Clamping Sleeve 22	22-87004-000	height = 30	0.10
General Clamping Pad	22-87011-010	18 x 32	0.10
General Clamping Pad	22-87011-011	18 x 32	0.10

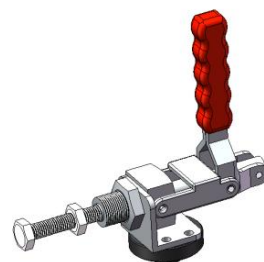
22 Toggle Clamp With Round Pad

Description:

- ❑ Round pad with vertical toggle clamp or horizontal toggle clamp.
- ❑ Suitable for fast clamping the light workpiece.
- ❑ Use for batch production.



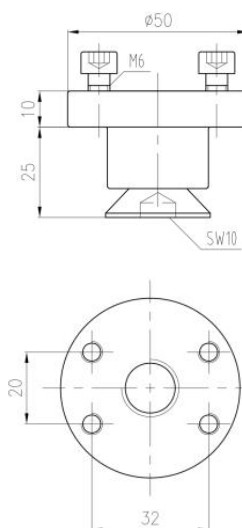
Vertical Toggle Clamp



Horizontal Toggle Clamp



Adapter of Clamp D 50mm

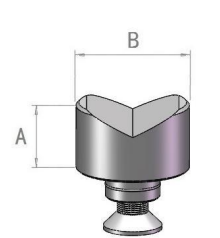


Description	SKU Code	Clamping Force N	NW(kg)
Vertical toggle clamp	28-86001-000	2226.11	0.70
Horizontal toggle clamp	28-86002-000	1471.00	0.70
Adaptor of clamp D50mm	28-86001-100	-	0.20

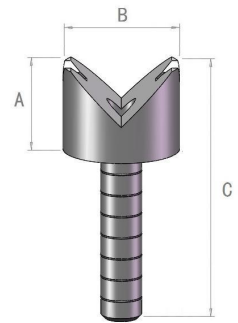
22 V-Block

Description:

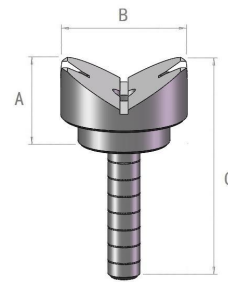
- ❑ Apply to pipes and round workpieces.
- ❑ V-block Ø58/ 130° is suitable for the workpieces with diameters less than 70mm.
- ❑ Cross V-block Ø80/ 90° is suitable for the workpieces with diameters less than 70mm.
- ❑ Cross V-block Ø110/ 120° is suitable for the workpieces with diameters less than 180mm.



V-block Ø58/ 130°



Cross V-block Ø80/ 90°



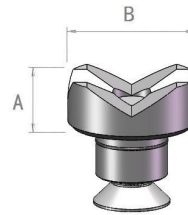
Cross V-block Ø110/ 120°

Description	SKU Code	A x B x C mm	NW(kg)
V-block Ø58/ 130°	22-90058-000	35 × 58	0.68
V-block Ø58/ 130°, Polyamide	22-90058-001		0.14
V-block Ø58/ 130°, Stainless Steel	22-90058-002		0.70
Cross V-block Ø80/ 90° with shaft	22-90080-000	180 × 80 × 60	1.94
Cross V-block Ø80/ 90° with shaft, Polyamide	22-90080-001		0.77
Cross V-block Ø80/ 90° with shaft, Stainless Steel	22-90080-002		1.94
Cross V-block Ø110/ 120° with shaft	22-90110-000	190×110×70	3.33
Cross V-block Ø110/ 120° with shaft, Polyamide	22-90110-001		1.33
Cross V-block Ø110/ 120° with shaft, Stainless Steel	22-90110-002		3.33

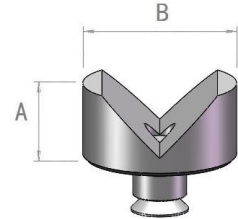
22 V-Block

Description:

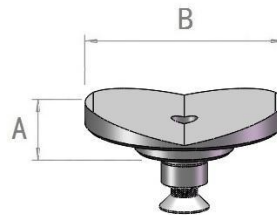
- ❑ Apply to pipes and round workpieces.
- ❑ V-Block Ø50/ 135° is suitable for the workpieces with diameters less than 80mm.
- ❑ V-Block Ø80/ 90° is suitable for the workpieces with diameters less than 100mm.
- ❑ V-Block Ø120/ 157° is suitable for the workpieces with diameters less than 400mm.



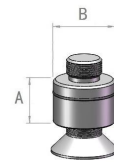
V-block Ø50/ 120°



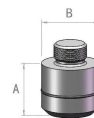
Cross V-block Ø80/ 90°



Cross V-block Ø120/ 157°



Collar Screw Bolt



Extension Bar

Description	SKU Code	A x B x C mm	NW(kg)
V-block Ø50/ 90° with screwed-in collar	S22-90050-001	20 x 50	0.30
V-block Ø80/ 90° with screwed-in collar	S22-90080-000	40 x 80	1.07
V-block Ø120/ 157° with screwed-in collar	S22-90120-000	30 x 120	1.74
Extension Bar 25/ 50/ 100/ 150	S22-91025/91050/91100/91150-000	length = 25/ 50/ 100/ 150	-
Collar screw bolt	S22-91050-000	17 x 28	0.04

22 Support Accessory

Description:

Height adjustment set:

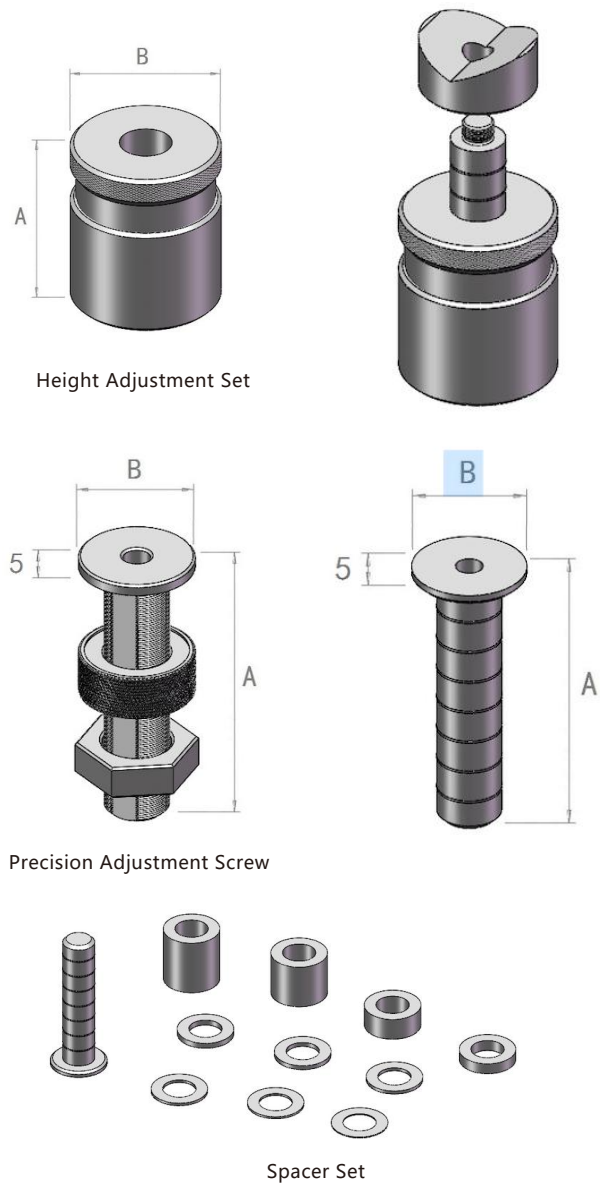
- ❑ Used with V-blocks, adjust the height of positioning location.
- ❑ Adjustable height 75-95 mm.
- ❑ At the top of the hole can be directly use STQ bolt lock.

Precision Adjustment Screw:

- ❑ Positioning the distance and height of the workpiece.
- ❑ The adjusting range 22-105 mm.
- ❑ Adjust the distance accuracy to 0.1 mm.
- ❑ The maximum load 10KN.

Spacer set 11- pieces:

- ❑ The thickness of the Spacer: 1, 2, 2.5, 3, 4, 5, 10, 20, 40, 50 mm.
- ❑ Positioning the distance or height: 5-100mm.
- ❑ Can be used with v-block.
- ❑ Combine with stop and angle, constitute all of the required sizes to position workpieces.



Description	SKU Code	A x B x C mm	NW(kg)
Height adjustment set	22-90009-000	(75-90) x 80	2.34
Precision Adjustment Screw Φ50	22-90005-000	120 x 45	0.72
Spacer set 11- pieces	22-90001-000	(100 + 5) x 22	1.90

22 Accessory

Description:

- ❑ Used with V-blocks, adjust the height of positioning location.
- ❑ Ball head hex wrench SW10 for STQ bolt.
- ❑ Ball head hex wrench SW8 for STQ countersunk bolt and connection bolt.
- ❑ Tightening torque of the torque wrench: 25 Nm.



Hexagon Wrench



Multi-purpose Wrench



Torque Wrench



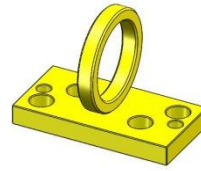
Torch Support

Description	SKU Code	Specification	NW(kg)
Hexagon wrench Universal Tool	00-C0008-008	SW 8	0.10
Hexagon wrench Universal Tool	00-C0008-010	SW 10	0.17
Hexagon wrench Universal Tool	00-C0008-014	SW 14	0.32
Multi-purpose Wrench	22-C0016-001	-	0.72
Torque wrench Universal Tool	22-C0010-000	SW10, SW8, SW6, SW4	0.76
Torch support	00-C0200-000	-	0.35

22 Accessory

Description:

- ❑ Ground connector, use for 28 series and 16 series.
- ❑ Transport ring loads 2000kg.
- ❑ Round brush material is stainless steel. The brush head is replaceable



Transport ring



Ground connector



Round Brush



Bench Stone



Pump bottle



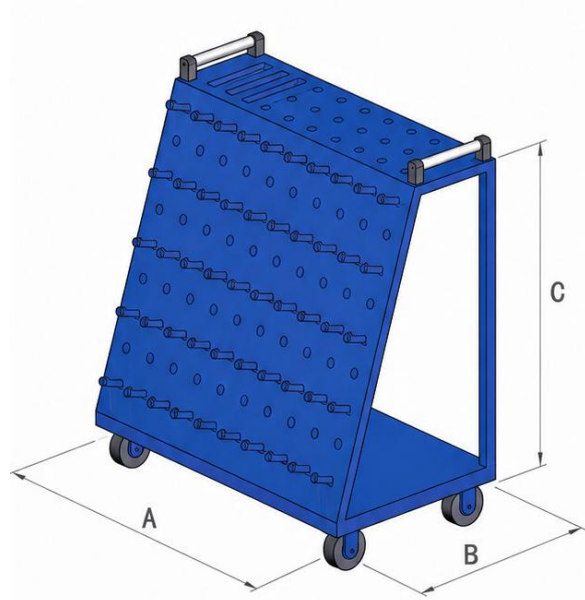
Anti-Spatter Spray

Description	SKU Code	Specification	NW(kg)
Transport ring	00-C0001-000	Max load 2000 kg	4.72
Ground connector	00-C0009-000	-	0.34
Round brush	22-C0002-000	-	0.12
Bench stone	00-C0007-000	-	0.56
Pump bottle	00-C0004-000	1 Litre	0.10
Anti-spatter spray	00-C0006-000	5 Litre	5.00

22 Accessory Cart

Description:

- ❑ Maintain a clean working area.
- ❑ All accessories can be neatly stored and organized.
- ❑ Four wheels, with two featuring brakes.
- ❑ Maximum load capacity of 300kg.



Description	SKU Code	A x B x C mm	NW(kg)
Accessory Cart	00-C1001-000	800 x 500 x 1068	59

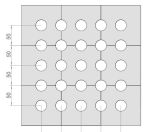
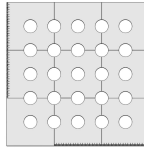
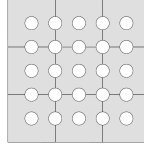
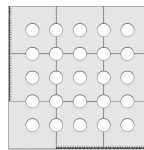
16

3D Module Welding Fixture

For sheet metal, small lightweight parts which requiring high precision

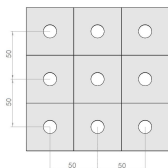


16 3D Welding Table

Image	SKU Code	Dimensions(mm)	Description	NW (kg)
 Basic Type	16-01005-000	1000×500×100	3D Q355 steel table, grid hole 50x50mm.	76
	16-01010-000	1000×1000×100		144
	16-01212-000	1200×1200×100		210
	16-01510-000	1500×1000×100		255
	16-01515-000	1500×1500×100		326
	16-02010-000	2000×1000×100		252
	16-02412-000	2400×1200×100		420
	16-03015-000	3000×1500×100		625
 Dimensioned Type	16-01005-100	1000×500×100	3D Q355 steel table, with 4 sides mm scale, grid hole 50x50mm.	76
	16-01010-100	1000×1000×100		144
	16-01212-100	1200×1200×100		210
	16-01510-100	1500×1000×100		255
	16-01515-100	1500×1500×100		326
	16-02010-100	2000×1000×100		252
	16-02412-100	2400×1200×100		420
	16-03015-100	3000×1500×100		625
 Hardened Type	16-01005-020	1000×500×100	3D Q355 steel table, hardened surface, HRC 35 grid hole 50x50mm.	76
	16-01010-020	1000×1000×100		144
	16-01212-020	1200×1200×100		210
	16-01510-020	1500×1000×100		255
	16-01515-020	1500×1500×100		326
	16-02010-020	2000×1000×100		252
	16-02412-020	2400×1200×100		420
	16-03015-020	3000×1500×100		625
 Hardened & Dimensioned type	16-01005-120	1000×500×100	3D Q355 steel table, with 4 sides mm scale, hardened surface, HRC 35 grid hole 50x50mm.	76
	16-01010-120	1000×1000×100		144
	16-01212-120	1200×1200×100		210
	16-01510-120	1500×1000×100		255
	16-01515-120	1500×1500×100		326
	16-02010-120	2000×1000×100		252
	16-02412-120	2400×1200×100		420
	16-03015-120	3000×1500×100		625

Other non-standard sizes can be customized.

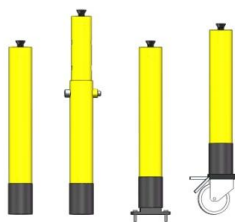
Grid hole 50x50mm.



Four Side



Leg types



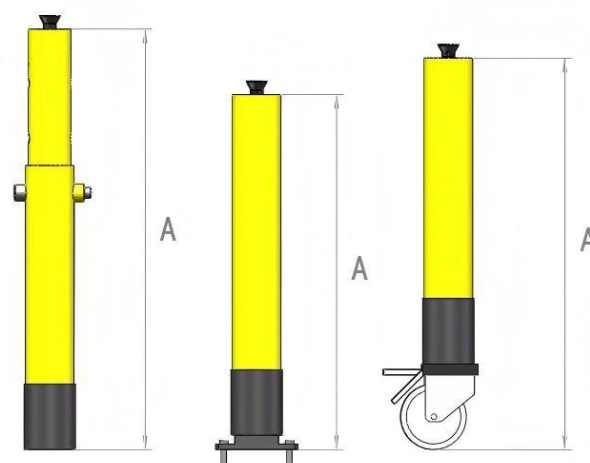
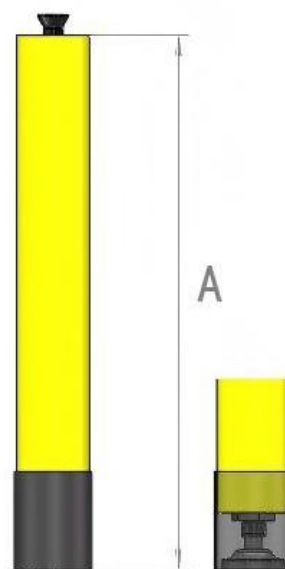
No. of legs

Table size	Qty
1000×500×100	4
1000×1000×100	4
1200×1200×100	4
1500×1000×100	4
1500×1500×100	4
2000×1000×100	4
2400×1000×100	4
3000×1500×100	8

16 Table Legs

Description:

- ❑ All types of legs can be adjusted height $\pm 30\text{mm}$.
- ❑ The loads of standard leg or anchored leg are less than or equal to 3 tons.
- ❑ The load of telescoping legs is less than 3 tons.
- ❑ Wheel leg max. load is 500 kg.
- ❑ More dimensions on request.
- ❑ Countersunk screw for installation M24x60.
- ❑ Use Allen wrench SW14.

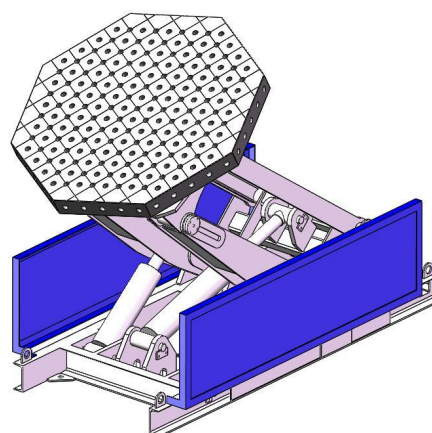
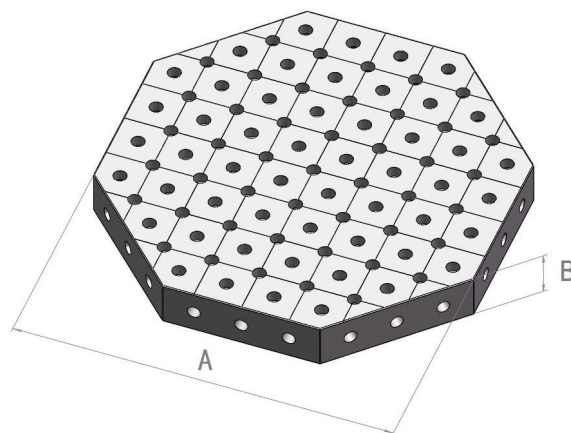


Description	SKU Code	A mm	Kg
Standard Leg	16-B0010-000	750 $\pm$ 30	9.44
Telescoping Leg	16-B0010-001	(600-1000) $\pm$ 30	11.50
Wheel Leg with Brake	16-B0010-023	750 $\pm$ 30	11.90
Wheel Leg without Brake	16-B0010-033	750 $\pm$ 30	11.00
Anchored Leg	16-B0010-004	750 $\pm$ 30	11.00

16 Octagonal Platform

Description:

- ❑ Mainly used on a positioner of a robot cell.
- ❑ 9 sides for clamping, the fixture tools are the same as the welding table.
- ❑ Other non-standard sizes can be customized.
- ❑ Connection size of the positioner is needed before order.
- ❑ Option: surface hardened

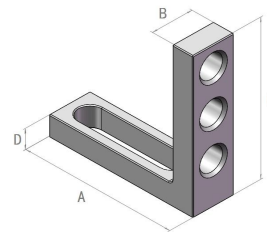


Description	SKU Code	A mm	Kg
Octagonal Platform; Diagonal SW 600	16-10600-000	SW 600×100	50
Octagonal Platform; Diagonal SW 800	16-10800-000	SW 800×100	80
Octagonal Platform; Diagonal SW 1000	16-11000-000	SW 1000×100	120
Octagonal Platform; Diagonal SW 1000	16-11200-000	SW 1200×100	180

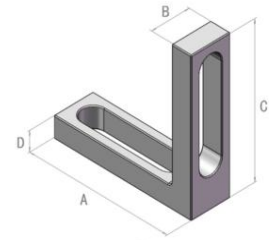
16 2 Sided Locating Angle

Description:

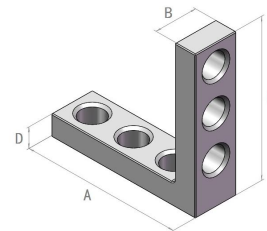
- ❑ Commonly used angle.
- ❑ 2 sided locating and clamping.
- ❑ Many located options by combining the bores and slot.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on request.
- ❑ Surface hardening.



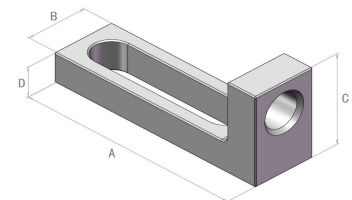
L90 Bores / Slot



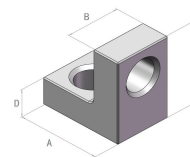
L90 Slot / Slot



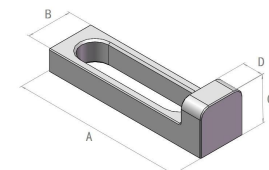
L90 Bores / Bores



L90 Bore / Slot



L35.5 Bore / Bore



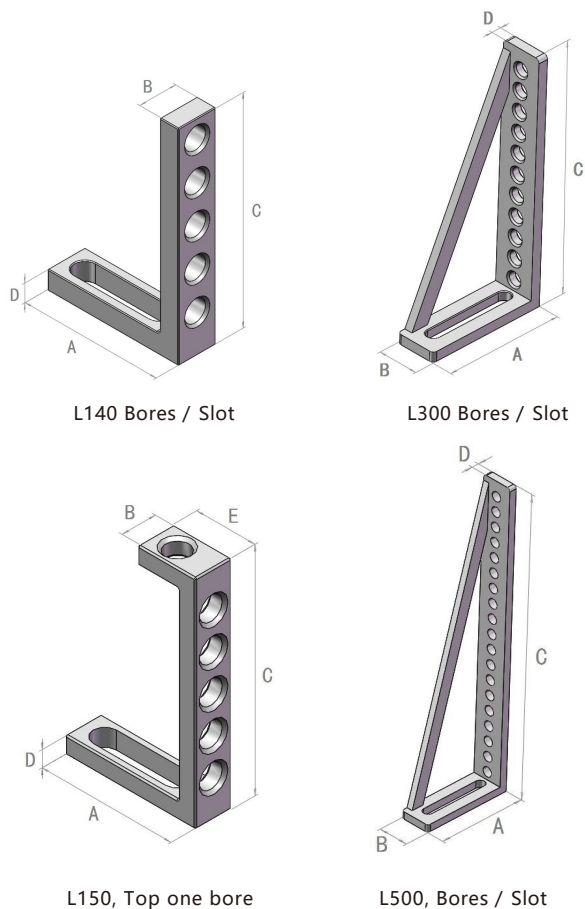
L90 Positioning Angle

Description	SKU Code	A x B x C x D mm	Kg
2 Sided Angle L90 Bores / Slot	16-30090-000	90 x 25 x 90 x 12	0.24
2 Sided Angle L90 Slot / Slot	16-30090-001		0.20
2 Sided Angle L90 Bores / Bores	16-30090-002		0.28
2 Sided Angle L37.5 Bore / Bore, surface nitrided	16-30037-000	37.5 x 37.5 x 25 x 12	0.12
2 Sided Angle L90 Bore / Slot, with scale and hardening	16-30090-003	90 x 25 x 37.5 x 12	0.16
2 Sided Positioning Angle L90, surface nitrided	S16-30090-005	90 x 25 x 25 x 12	0.15

16 2 Sided/3 Sided Locating Angle

Description:

- ❑ Commonly used angle.
- ❑ 2 sided locating and clamping.
- ❑ Many located options by combining the bores and slot.
- ❑ Can be a height adjustable surface by clamping the oblong slot.
- ❑ Precision scales on request.
- ❑ Surface hardening.

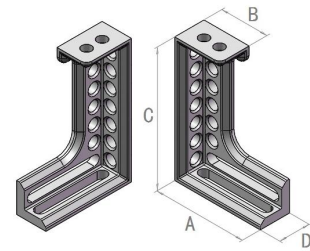


Description	SKU Code	A x B x C x D x E mm	Kg
2 Sided Angle L140 Bores / Slot, with scale	16-30140-000	90 x 25 x 140 x 12	0.32
2 Sided Angle L300 Bores / Slot	16-30300-004	150 x 50 x 300 x 12	2.13
2 Sided Angle L500 Bores / Slot	16-30500-004	150 x 50 x 500 x 12	3.00
2 Sided Angle L150, Top one bore, with scale	16-30150-001	90 x 25 x 150 x 25 x 35	0.65

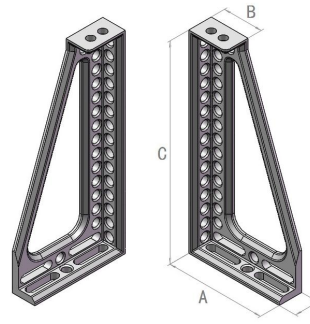
16 4 Sided Locating Angle

Description:

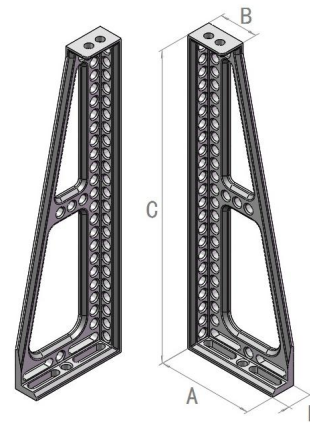
- ❑ Multiduty angle.
- ❑ 4 support surfaces for locating and clamping.
- ❑ Multiple adjustment by combining the bores and slots.
- ❑ Can be a stop and table extension for heavy workpieces.
- ❑ Precision scales on request.
- ❑ Ordering in pairs is recommended.



L200



L400



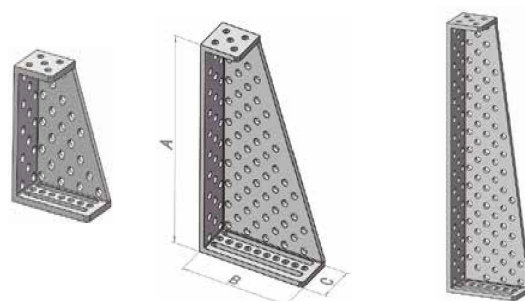
L600

Description	SKU Code	A x B x C x D mm	Kg
4 Sided Angle L200, Right	16-30200-000	137.5 x 50 x 200 x 12	1.70
4 Sided Angle L200, Left	16-30200-001		
4 Sided Angle L400, Right	16-30400-000	187.5 x 50 x 400 x 12	3.58
4 Sided Angle L400, Left	16-30400-001		
4 Sided Angle L600, Right	16-30600-000	187.5 x 50 x 600 x 12	5.20
4 Sided Angle L600, Left	16-30600-001		

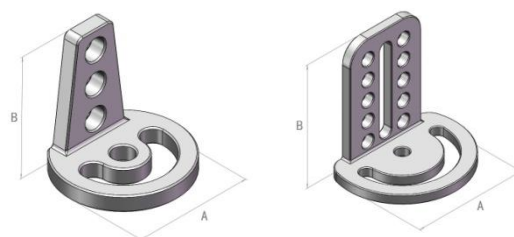
16 Special-Shaped Positioning Angle

Description:

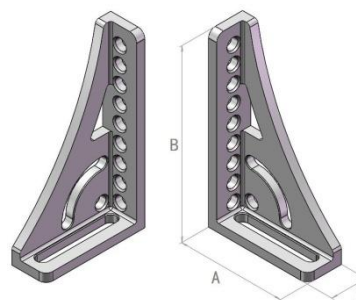
- ❑ Multiduty angle.
- ❑ Enabling angle adjustment in multiple directions.
- ❑ Multiple adjustment by combining the bores and slots.
- ❑ Customized product.



Multi-hole positioning angle



Turning Angle



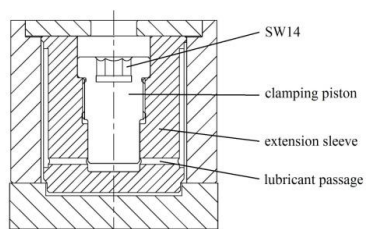
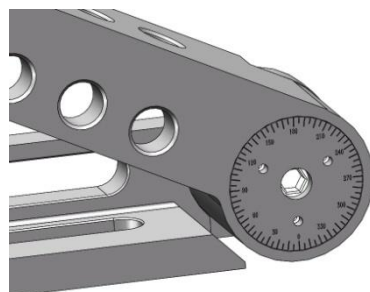
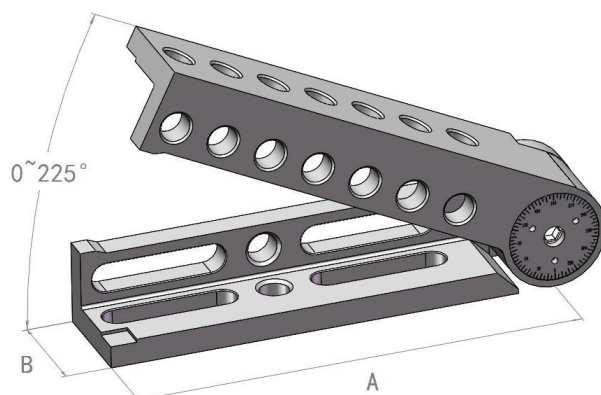
Stop and Clamping Square

Description	SKU Code	A x B x C mm	NW (Kg)
4 Sided Positioning Angle, nitrided	S16-30250-102	250 x 200 x 100	6.60
4 Sided Positioning Angle, nitrided	S16-30500-102	500 x 200 x 100	11.50
4 Sided Positioning Angle, nitrided	S16-30750-102	750 x 200 x 100	16.40
Turning Angle	16-30090-004	90 x 90	0.50
Turning Angle	16-30150-004	90 x 90	1.80
Stop and Clamping Square 250G left, with 90° angle	S16-30250-001	145 x 250 x 50	3.58
Stop and Clamping Square 250G left, with 90° angle	S16-30250-001	145 x 250 x 50	3.58

16 Adjustable Angle Ruler

Description:

- ▣ Adjust from 0 – 225 °.
- ▣ The compression spring locking mechanism.
- ▣ Holding force to 150Nm.
- ▣ Precision angle scale.
- ▣ Black oxide finish or surface hardening treatment.

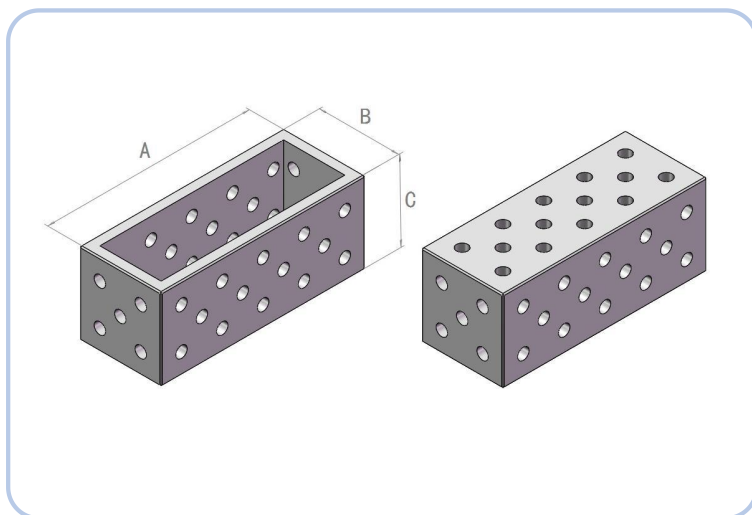


Description	SKU Code	A x B x C mm	NW (Kg)
Adjustable Angle Ruler Right	16-30225-001	225 x 50 x 50	7.00
Adjustable Angle Ruler Left	16-30225-002	225 x 50 x 50	7.00

16 U-shape Block

Description:

- ❑ 5 sides support surfaces.
- ❑ Can be used for table extension. When as a cantilever frame, from 1000mm length need one table leg for support. When between two tables, from 2000mm length need one table leg for support.
- ❑ Can be used as height extension. Connect with several tables or other components.
- ❑ Optional: surface hardening treatment.



Description	SKU Code	A x B x C mm	NW (Kg)
U-shape block 500	16-40050-000	500 x 100 x 100	19.00
U-shape block 1000	16-40100-000	1000 x 100 x 100	38.00
U-shape block 1500	16-40150-000	1500 x 100 x 100	57.00
U-shape block 2000	16-40200-000	2000 x 100 x 100	93.00

16 Support Module / Corner Module

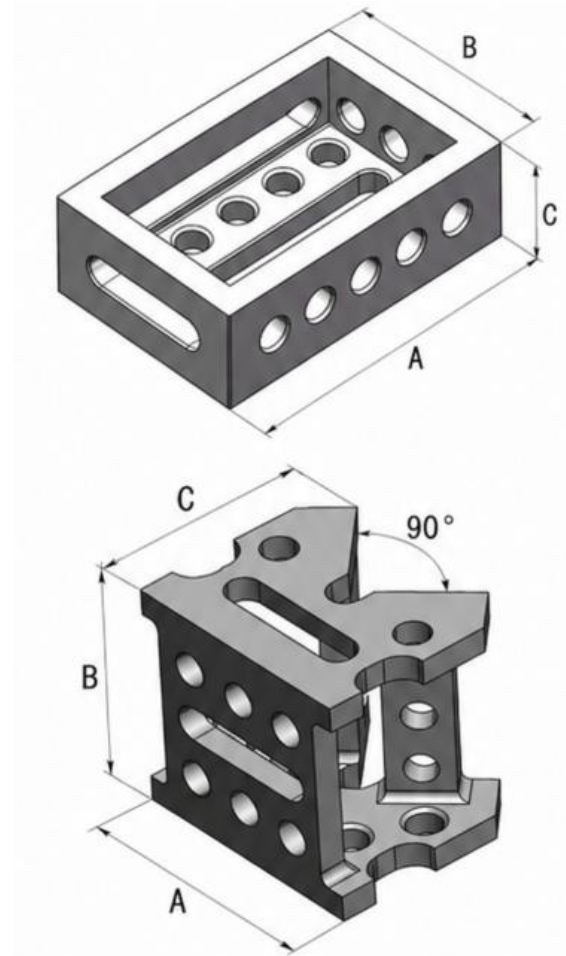
Description:

Support Module:

- ❑ Multiduty block.
- ❑ Height direction supporting and positioning.
- ❑ Table and other modules extension.
- ❑ Optional: surface hardening treatment.
- ❑ Optional aluminum alloy.

Corner Module:

- ❑ Multiduty block. 90° opening.
- ❑ Positioning right angle type workpieces.
- ❑ Extensions on the corner of tables.
- ❑ Locating large circular pipes.
- ❑ Surface hardening treatment.

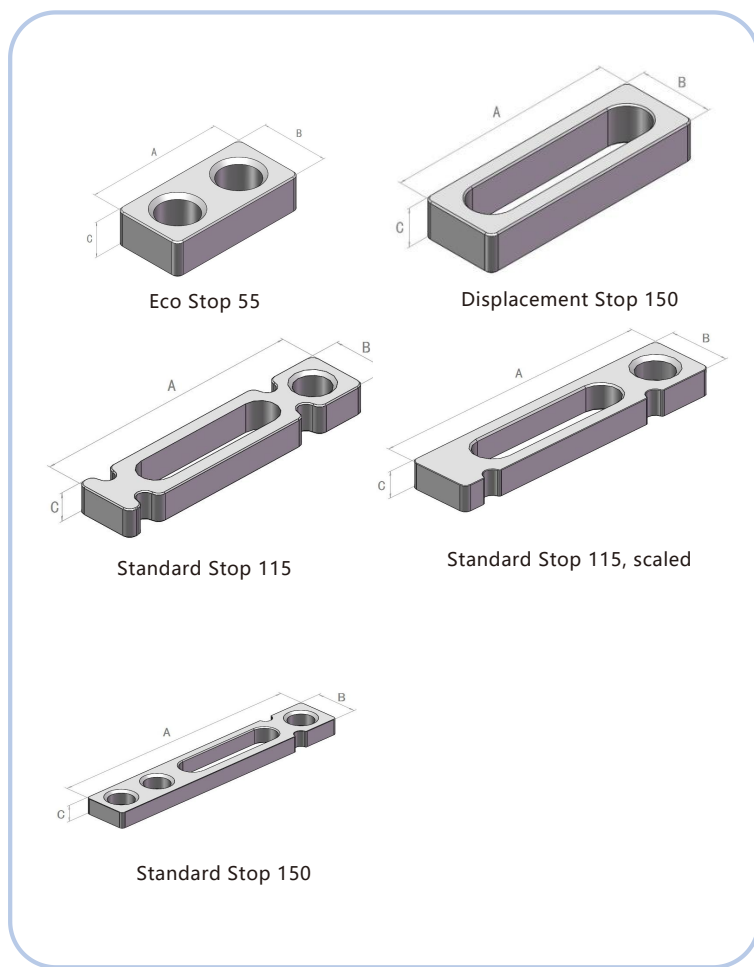


Description	SKU Code	A x B x C mm	NW (Kg)
Support Module, Right	16-91510-001	150 x 100 x 50	1.98
Support Module, Left	16-91510-002	150 x 100 x 50	1.98
Support Module, Right	16-92010-000	100 x 100 x 85	1.90
Support Module, Left	16-92010-001	100 x 100 x 85	1.90

16 Stop

Description:

- ❑ Commonly used stop.
- ❑ Many located options by combining the bores and slots.
- ❑ 100mm length oblong slot for adjustment.
- ❑ Standard stops form multiples of 12.5 mm dimension chain.
- ❑ Precision scales on request.
- ❑ Surface hardening treatment.



Description	SKU Code	A x B x C mm	NW (Kg)
Eco Stop 55	16-50055-000	55 x 25 x 12	0.08
Displacement Stop 150	16-50150-000	150 x 25 x 12	0.18
Standard Stop 115	16-50011-000	115 x 25 x 12	0.14
Standard Stop 115, scaled	16-50011-004	115 x 25 x 12	0.14
Standard Stop 150	16-50016-000	165 x 25 x 12	0.25

16

Plate Stop / Flat Angle / Eccentric Stop

Description:

Plate Stop:

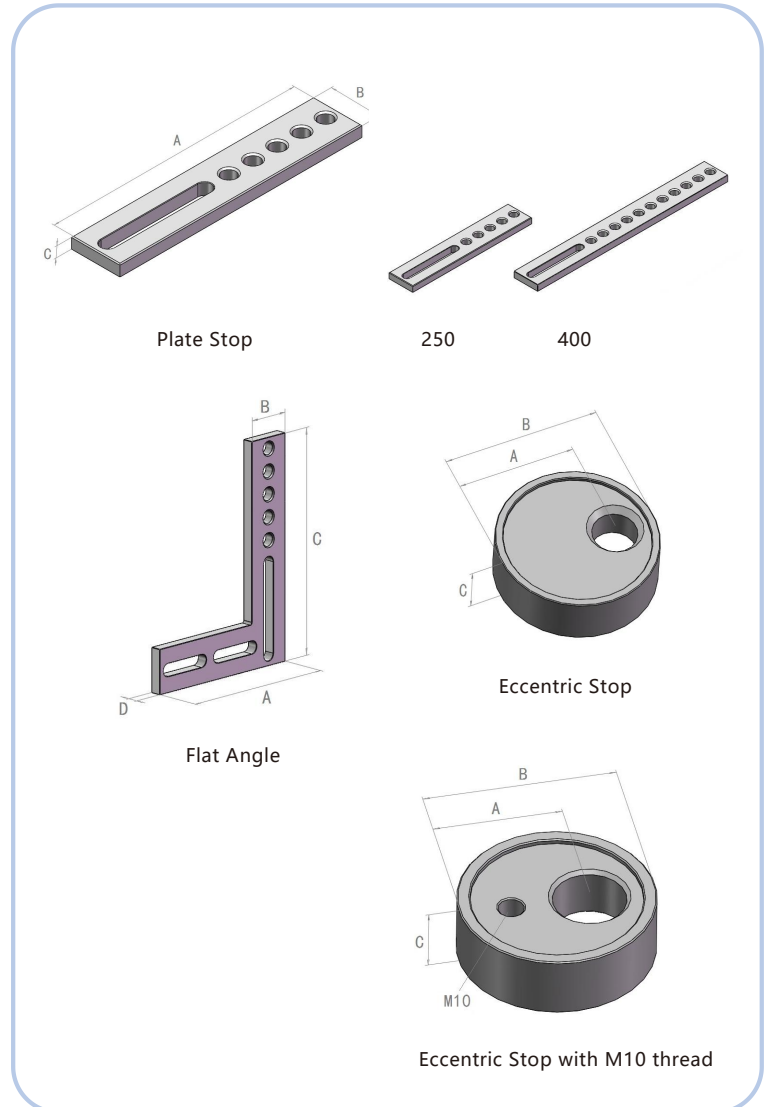
- Commonly used as a side stop.
- 200mm long slot allows for infinite adjustment.
- Surface blackening treatment

Flat Angle:

- Locating at 90° angles by interior and exterior.
- Multiple options by combining the bores and slots.
- Surface blackening treatment

Eccentric Stop:

- Use as a stop or support for irregular distance adjustment.
- Connect with standard bolt, adjusted by rotating.
- Suitable for small space use.
- Surface blackening treatment



Description	SKU Code	A x B x C mm	NW (Kg)
Plate Stop 250	16-50025-001	250 x 50 x 12	0.90
Plate Stop 400	16-50040-001	400 x 50 x 12	1.48
Flat Angle 250	16-35250-000	187.5 x 12 x 250	1.46
Eccentric Stop Ø45	16-52045-000	45 x 12	0.13
Eccentric Stop Ø75	16-50016-000	75 x 12	0.39
Eccentric Stop Ø75 with M10 thread	16-52075-001	75 x 12	0.38

16

Adapter Plate / Angle Plate

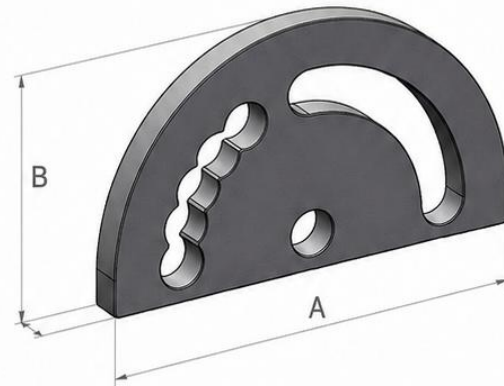
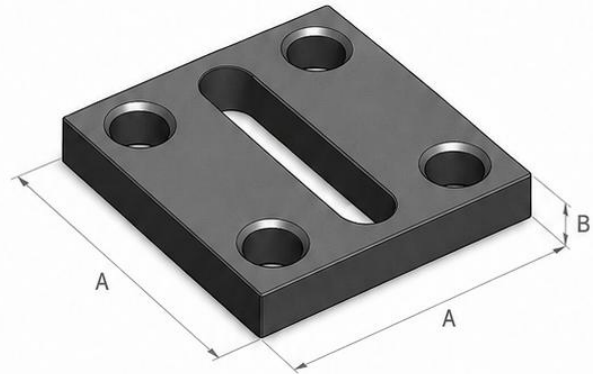
Description:

Adapter Plate:

- ❑ When location dimension less than 100mm or table system bores can not be reached.
- ❑ Connect 3D table system bores with components.
- ❑ Surface blackening treatment

Angle Plate :

- ❑ Easy to locate angle on table.
- ❑ Quick locating at 15°, 30°, 45°, 60°
- ❑ Slot can be adjusted from 0° to 90°.
- ❑ Surface blackening treatment



Description	SKU Code	A x B x C mm	NW (Kg)
Adapter Plate	16-57575-000	75 x 75 x 12	0.36
Angle Plate	16-51587-000	150 x 87.5 x 12	0.45

16 Ball Bolt

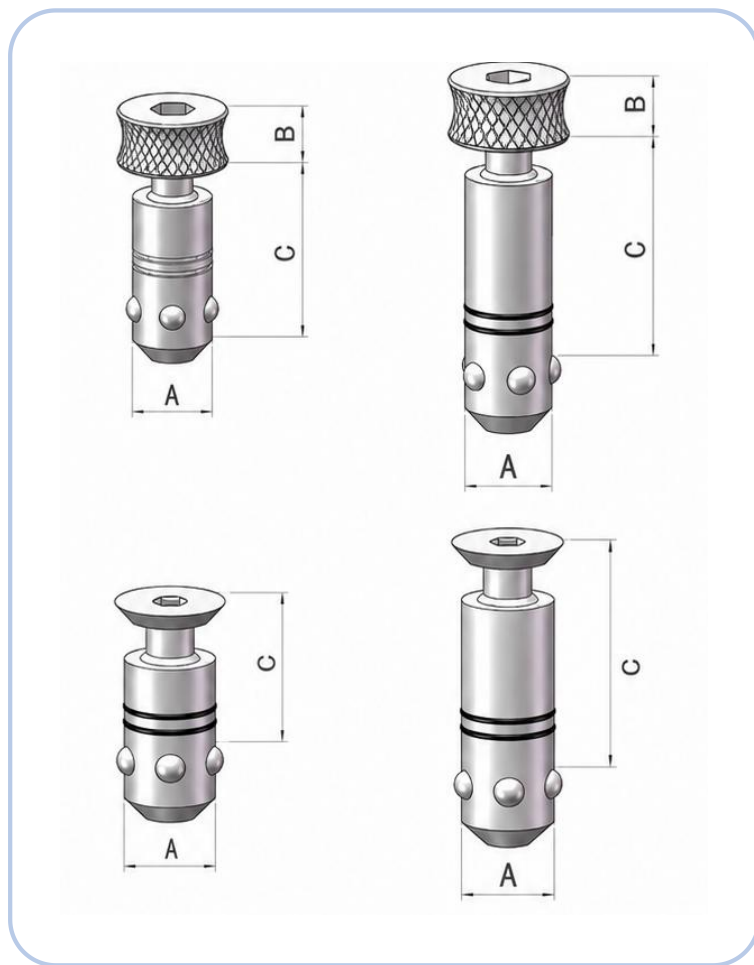
Description:

Ball Bolt:

- ❑ The Four ball lock.
- ❑ Using by one hand.
- ❑ Connect table with table, stop, angle, adapter plates, transport rings, etc.
- ❑ Surface HRC50.
- ❑ Clamp by hex wrench SW8.
- ❑ Tightening torque: 20 Nm

Ball Countersunk Bolt:

- ❑ Countersunk bolt head.
- ❑ Clamp by hex wrench SW4.



Description	SKU Code	A x B x C mm	NW (Kg)
Ball Bolt, Short	16-50055-000	(16-0.01) x 12	0.08
Ball Bolt, Long	16-50150-000	(16-0.01) x 12	0.10
Ball Countersunk Bolt, Short	16-50011-000	(16-0.01) x 18.6	0.04
Ball Countersunk Bolt, Long	16-50011-004	(16-0.01) x 18.6	0.06

16

Connection Bolt / Positioning Bolt

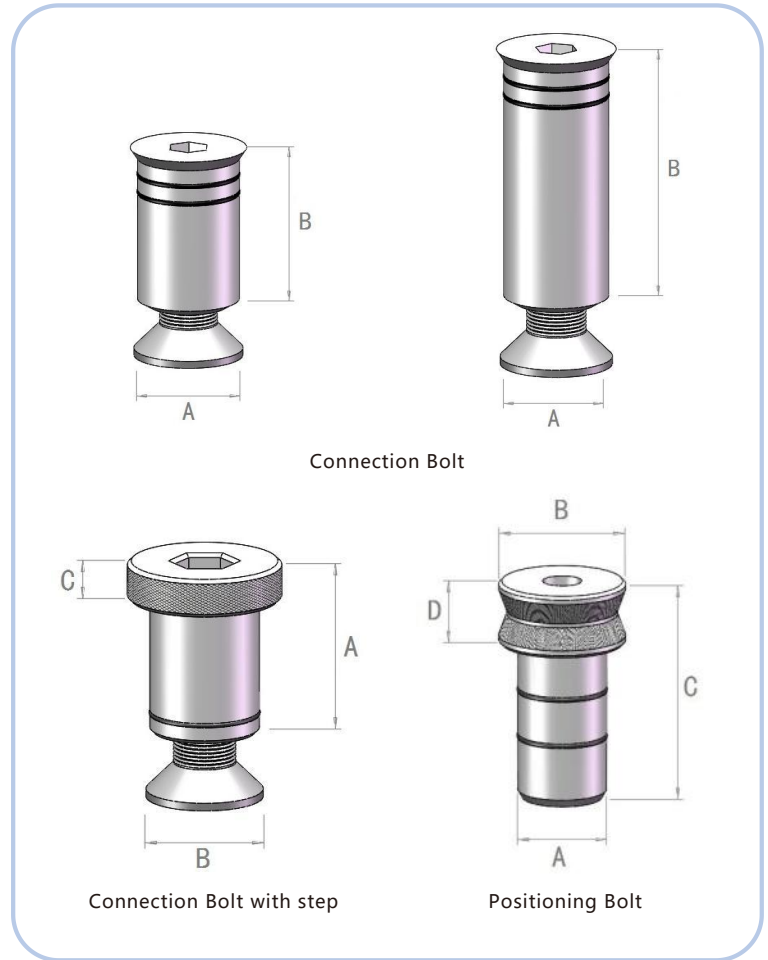
Description:

Connection Bolt:

- ❑ Connection pin be used for long term connection.
- ❑ Use for connect table to table or block and stop for system bores.
- ❑ Clamp by hex wrench SW6

Positioning Bolt:

- ❑ Locating pin without locking.
- ❑ Usually use with STQ bolt together.
- ❑ Economical substitute for a 2nd clamping bolt.

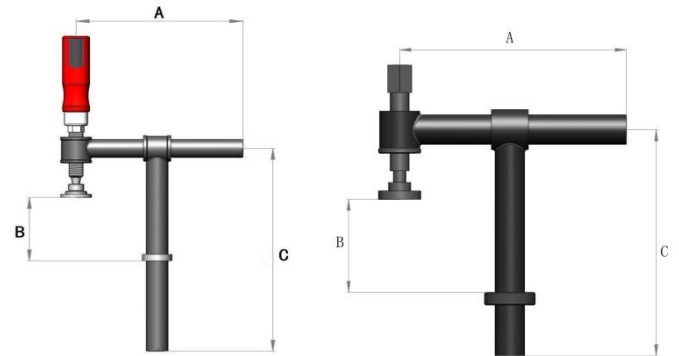


Description	SKU Code	A x B x C x D mm	NW (Kg)
Connection Bolt, Short	16-60003-000	16 x 17	0.04
Connection Bolt, Long	16-60003-002	16 x 25	0.05
Connection Bolt with step	16-60003-005	22 x 16 x 5	0.05
Positioning Bolt	16-60009-000	16 x 25 x 37 x 25	0.08

16 180° Clamp With Various Handles

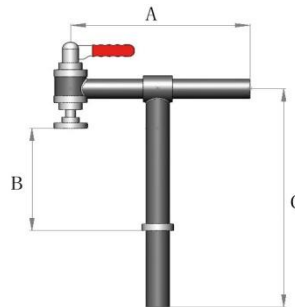
Description:

- ❑ Three forms of handles are available for selection.
- ❑ Oval handle makes more powerful.
- ❑ Each part can be used separately and recombined to other kinds of clamps.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ Clamp horizontal and vertical distances are adjustable.



Screw Clamp

Hex head Clamp



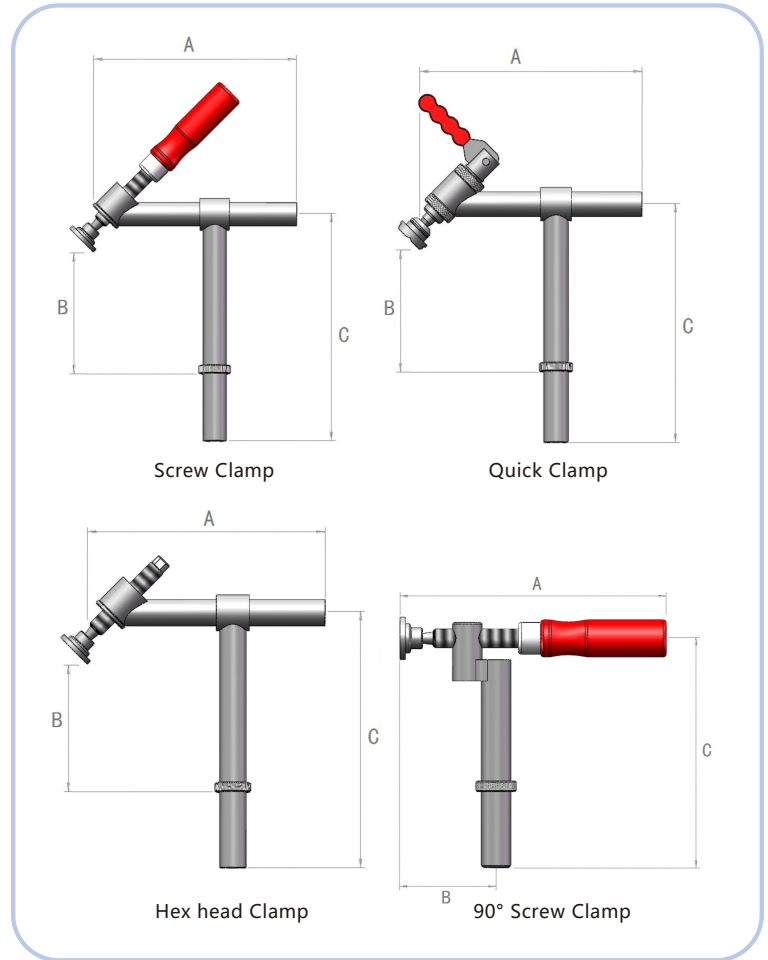
Quick Clamp

Description	SKU Code	A x B span x C	NW (Kg)
Screw Clamp, 180°/ 130	16-85013-000	130 x max.90 x 130	0.52
Screw Clamp, 180°/ 170	16-85017-000	130 x max.90 x 170	0.68
Quick Clamp, 180°/ 130	16-85013-001	130 x max.90 x 130	0.52
Quick Clamp, 180°/ 170	16-85017-001	130 x max.90 x 170	0.68
Hex head Clamp, 180°/ 130	16-85013-002	130 x max.90 x 130	0.52
Hex head Clamp, 180°/ 170	16-85017-002	130 x max.90 x 170	0.68

16 45° Clamp / 90° Clamp

Description:

- ❑ Three forms of handles are available for selection.
- ❑ Oval handle makes more powerful.
- ❑ Each part can be used separately and recombined to other kinds of clamps.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ Clamp horizontal and vertical distances are adjustable.

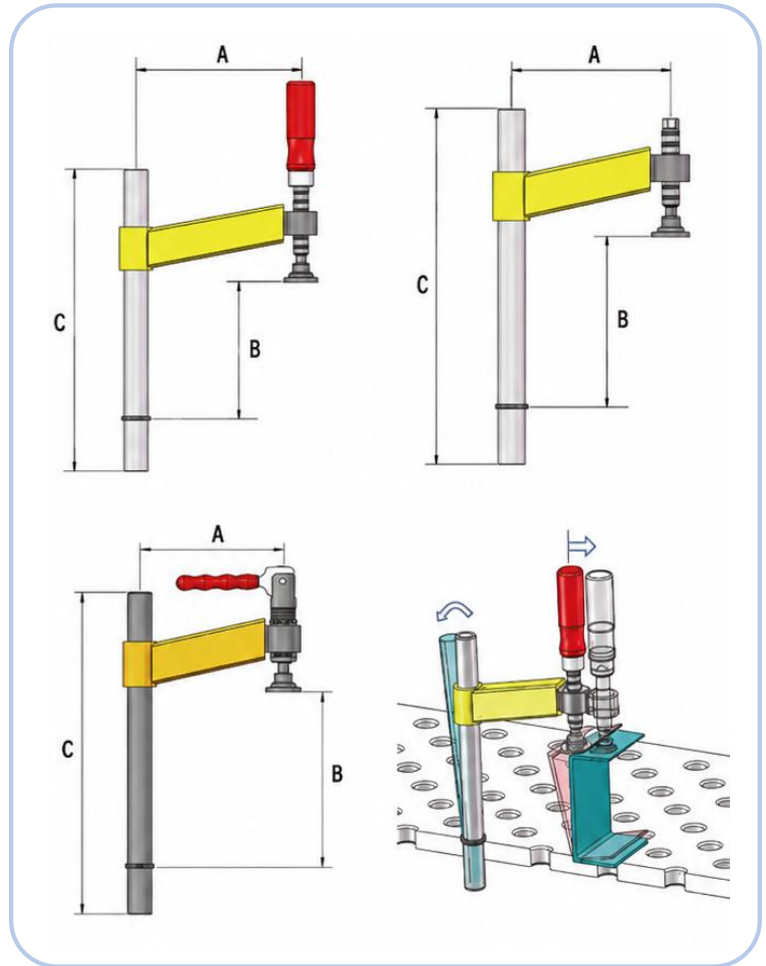


Description	SKU Code	A x B span x C	NW (Kg)
Screw Clamp, 45° / 130	16-89013-000	130 x max.90 x 130	0.50
Quick Clamp, 45° / 130	16-89013-001		0.58
Hex head Clamp, 45° / 130	16-89013-002		0.46
Screw Clamp, 90° / 170	16-88017-002	150 x max.40 x 170	0.30

16 Compensation Clamp

Description:

- ❑ No displacement when the clamping.
- ❑ Fast and higher clamp force.
- ❑ Adjustable clamping height.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.
- ❑ High strength steel standpipe.

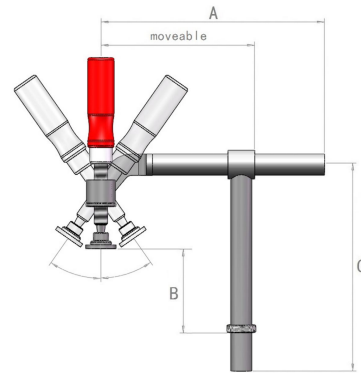


Description	SKU Code	A x B span x C	NW (Kg)
Compensation Clamp with Screw Clamp	16-85110-000	(100-125) x max.200 x 250	0.60
Compensation Clamp with Quick Clamp	16-85110-001		0.60
Compensation Clamp with Hex Clamp	16-85110-002		0.60

16 Versatile Screw Clamp

Description:

- ❑ Cover the function of 45°, 90° and 180° screw clamp.
- ❑ Adjust $\pm 50^\circ$ and 360° rotation.
- ❑ Vertical Tube option: 130 mm or 170 mm
- ❑ Can be changed hex head.



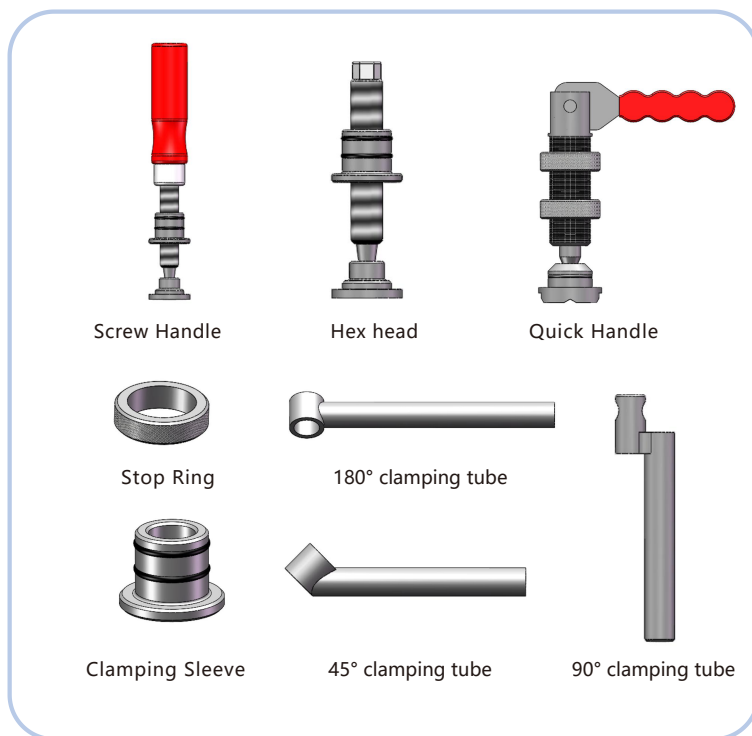
Hex head

Description	SKU Code	A x B span x C	NW (Kg)
Versatile Screw Clamp with Screw Clamp	16-83013-000	50 x max.90 x 130	0.60
Versatile Screw Clamp with Screw Clamp	16-87017-000	50 x max.90 x 170	0.70
Versatile Screw Clamp with Hex Clamp	16-83013-002	50 x max.90 x 130	0.60
Versatile Screw Clamp with Hex Clamp	16-83017-002	50 x max.90 x 170	0.70

16 Clamp Accessory

Description:

- ❑ Rubber and plastic handle, feeling comfortable, non-skid.
- ❑ Oval handle, can make more powerful.
- ❑ Clamp by hex wrench makes much tighter.
- ❑ Height adjustment with stop ring.
- ❑ The clamping distance compensation 70mm.
- ❑ Handle is replaceable.
- ❑ Replace with a variety of clamping pad.

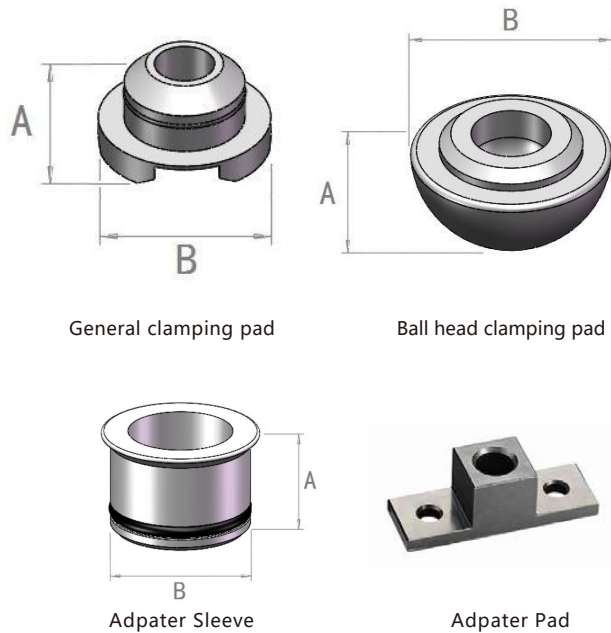


Description	SKU Code	A x B span x C	NW (Kg)
Screw Handle	16-87020-000	Height = 150 mm	0.14
Hex head Handle	16-87020-001	Height = 80 mm	0.10
Quick handle	16-87020-002	Height = 70 mm	0.18
180° clamping tube	16-85013-100	Length = 130 mm	0.20
45° clamping tube	16-85013-200		0.20
90° clamping tube	16-85013-300		0.20
Stop Ring	16-87003-000		0.01
Clamping Sleeve	16-87002-000	-	0.05

16 Clamp Accessory

Description:

- General pads clamp the common parts, inclined plane, small diameter pipe, etc.
- Can insert into any system hole as a locating piece.
- Various materials for choice.
- Cross-shaped grooves for round or rectangular tubes to clamp.
- Adapter sleeve can be insert 16 clamp tubes into the 28 series holes.
- Adapter pad can be use for 28 tubes on the 16 series tables.

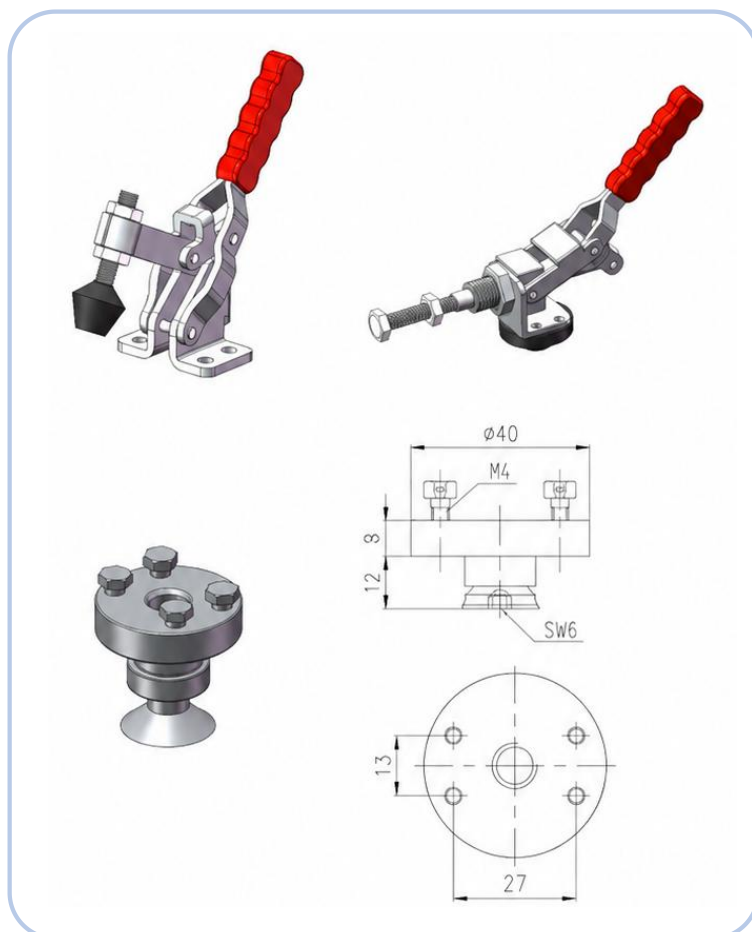


Description	SKU Code	A x B mm	NW (Kg)
General Clamping Pad, Steel-doubleside	16-87011-010	13 x 22	0.019
General Clamping Pad, Stainless Steel	16-87011-011	13 x 22	0.019
General Clamping Pad, Polyamide	16-87011-012	13 x 22	0.004
General Clamping Pad, Aluminium	16-87011-019	13 x 22	0.019
Ball head Clamping Pad, Steel	16-87011-003	14 x 20	0.018
Ball head Clamping Pad, Stainless steel	16-87011-004	14 x 20	0.018
Ball head Clamping Pad, Polyamide	16-87011-005	14 x 20	0.004
Ball head Clamping Pad, Aluminium	16-87011-020	14 x 20	0.018
Adapter sleeve 28/16 for screw handle	00-86013-000	-	0.30
Adapter pad 16/28 for clamp pipe	00-86015-000	-	0.80

16 Toggle Clamp with Round Pad

Description:

- ❑ Round pad with vertical toggle clamp or horizontal toggle clamp.
- ❑ Suitable for fast clamping the light workpieces.
- ❑ Use for batch production.



Description	SKU Code	Clamping Force N	NW (Kg)
Vertical Toggle Clamp	16-86001-001	920 N	0.22
Horizontal Toggle Clamp	16-86001-002	980 N	0.22
Adaptor of Toggle Clamp SW6	16-86001-100	13 x 22	0.05

16 V-Block

Description:

- Apply to pipes and round workpieces.
- V-block with diameter 50 can position workpieces with diameters ranging from 70 to 100mm.
- V-block with diameter 80 can position workpieces with diameters ranging from 100 to 400mm.
- Fit any system bore with countersunk screw.



Description	SKU Code	A x B mm	NW (Kg)
V-block Ø50, 120 / 90, Steel	16-90050-000	35 x 50	0.36
V-block Ø50, 120 / 90, Polyamide	16-90050-001	35 x 50	0.06
V-block Ø50, 120 / 90, Stainless Steel	16-90050-002	35 x 50	0.38
V-block Ø80, 120 / 90, Steel	16-90080-000	50 x 80	1.46
V-block Ø80, 120 / 90, Polyamide	16-90080-001	50 x 80	0.22
V-block Ø80, 120 / 90, Stainless Steel	16-90080-002	50 x 80	1.46
V-block Ø50 x 20, 90 / 120°, with Ø16 adapter sleeve,hardend	S16-90050-020	50 x 20	
V-block Ø80 x 30, 120°, with Ø16 adapter sleeve,hardend	S16-90090-020	80 x 30	
Spacer Bar, Ø16 x 50 mm	S16-90001-100	50 x 16	
Spacer Bar, Ø16 x 100 mm	S16-90001-100	100 x 16	
Screw Support Ø50, Height 50 - 70 mm	16-90009-000	(50 - 70) x 50	
Spacer set 9 pieces, Thickness: 1, 2, 2.5, 3, 4, 5, 10, 20 mm	16-90001-000	(55+5) x 16	

16 Accessory

Description:

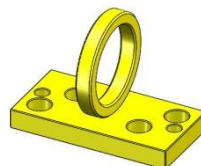
- Apply to pipes and round workpieces.
- V-block with diameter 50 can position workpieces with diameters ranging from 70 to 100mm.
- V-block with diameter 80 can position workpieces with diameters ranging from 100 to 400mm.
- Fit any system bore with countersunk screw.



Hexagon Wrench



Torque Wrench



Transport ring



Ground connector



Round Brush



Bench Stone



Pump bottle



Anti-Spatter Spray

Description	SKU Code	Specification	NW (Kg)
Hexagon wrench Universal Tool	00-C0008-004	SW 4	0.01
Hexagon wrench Universal Tool	00-C0008-005	SW 5	0.06
Hexagon wrench Universal Tool	00-C0008-006	SW 6	0.02
Hexagon wrench Universal Tool	00-C0008-008	SW 8	0.10
Torque wrench Universal Tool	16-C0015-000	SW8, SW6, SW4	0.76
Transport ring	00-C0001-000	-	4.72
Ground connector	00-C0009-000	-	0.34
Round brush	16-C0015-000	-	0.12
Bench stone	00-C0007-000	-	0.56
Pump bottle	00-C0004-000	1 Litre	0.10
Anti-spatter spray	00-C0006-000	5 Litre	5.00

16 Accessory Cart

Description:

- ❑ Accessory trolley has brake wheels with and aluminum alloy handles.
- ❑ Drawer trolley, hanging plate optional. Drawer with lock.
- ❑ Heavy-duty drawer slide.



Description	SKU Code	A x B x C mm	NW (Kg)
Drawer trolley, Max load: 100 kg	16-C1002-004	717 x 527 x 870	45.00
Accessory trolley, Max load: 100 kg	16-C1001-005	600 x 450 x 870	30.00



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