融合 · 创新 · 共赢

Integration of innovation and win-win

河北法德通机械制造有限公司

Hebei Fadetong Machinery Manufacturing Co., LTD

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法德通机械

Hebei Fadetong machinery

三维柔性组合工装夹具精益制造厂家

机器人焊接工作站成套设计解决方案

Lean manufacturing manufacturer of three-dimensional flexible combination tooling and fixtures

A complete design solution for robot welding workstations

河北法德通机械制造有限公司

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About us 公司简介

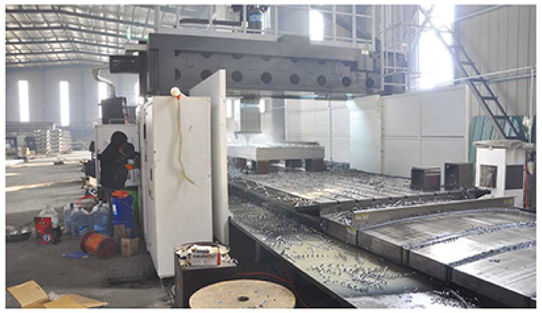
河北法德通机械制造有限公司位于河北沧州泊头泊镇堤口张工业区，公司厂房面积约6500平方米；交通物流发达；拥有更快速更直接的为客户提供优质服务的地理空间优势。

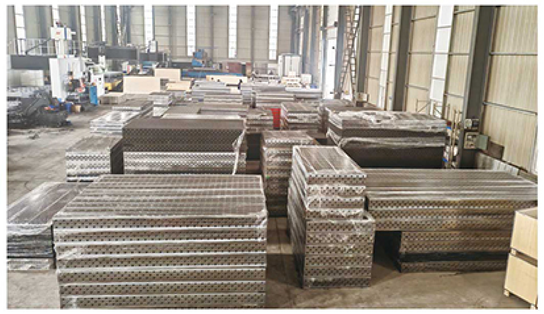
公司拥有国内同行业最先进的加工设备；完善的管理体系，公司通过ISO9001管理体系认证；拥有一批专业从事三维柔性组合焊接工装研制开发、设计制造及机器人自动化集成的工程技术团队和售后服务人员，为更好地从事产品设计、加工制造和客户服务提供强有力的技术支持。致力于柔性智能焊接工艺装备、三维柔性组合夹具、自动化焊接工装夹具、自动焊接专机设备、焊接机器人系统工作站、机器人工装夹具集成和提高生产效率整体解决方案的研发和运营团队，我公司是国内最专业的智能焊接工艺装备及解决方案的研发和运营团队之一；集研发设计、生产制造、销售及服务于一体的现代化科技企业。

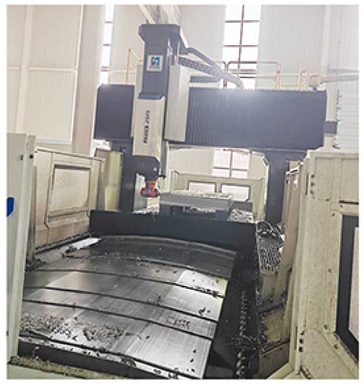
Hebei Fadetong Machinery Manufacturing Co., LTD is located in Dikou Zhang Industrial Zone, Botoubo Town, Cangzhou, Hebei Province, with a factory area of approximately 6500 square meters; Developed transportation and logistics; Having the geographical advantage of providing high-quality services to customers faster and more directly.

The company has the most advanced processing equipment in the same industry domestically; A sound management system, the company has passed ISO9001 management system certification; We have a professional engineering and technical team and after-sales service personnel engaged in the research and development, design and manufacturing, and robot automation integration of three-dimensional flexible combination welding fixtures, providing strong technical support for better product design, processing and manufacturing, and customer service. Dedicated to flexible and intelligent welding processesOur company is one of the most professional R&D and operation teams in China for intelligent welding process equipment and solutions, including equipment, three-dimensional flexible combination fixtures, automated welding fixtures, automatic welding special machine equipment, welding robot system workstations, machine manual fixture integration, and overall solutions to improve production efficiency; A modern technology enterprise that integrates research and development, design, production, manufacturing, sales, and service.

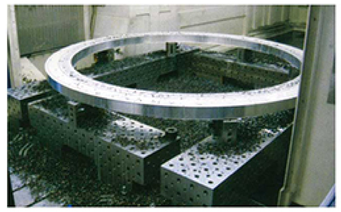
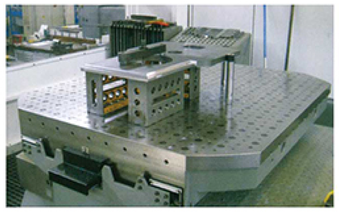
★公司加工设备 Company processing equipment



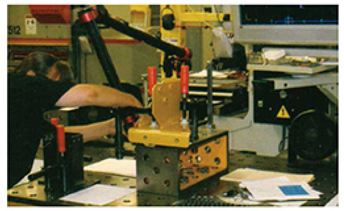




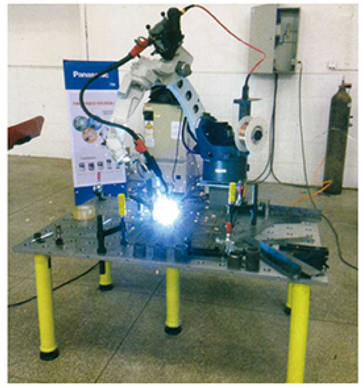
★产品应用范围Product application scope

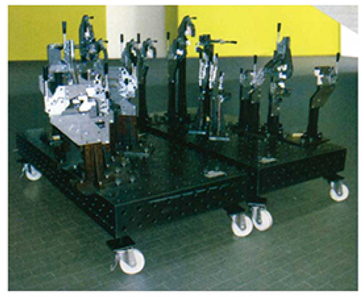



制造 Manufacture



检测detection

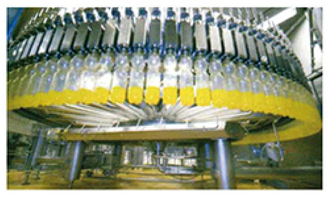




焊接 weld

★食品加工设备应用
Application of food processing equipment

矿泉水设备
Mineral Water Plant



饮料设备
beverage equipment

★精密自由定位设备
Precision free positioning equipment

★全承载车架底盘骨架组焊
Welding of fully loaded chassis frame and chassis frame assembly

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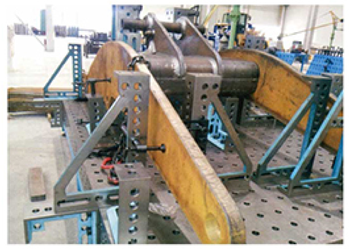
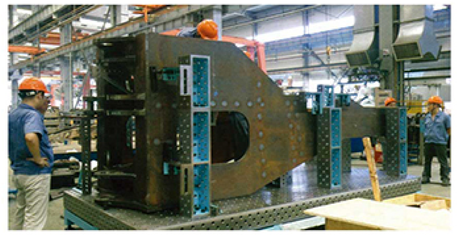
★大型结构件组焊
Assembly welding of large structural components

★工程机械应用
Engineering Machinery Applications



装载车–动臂组焊
Loading truck boom assembly welding

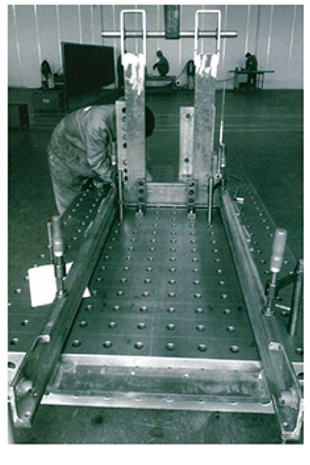


装载车–后车架组焊
Loading vehicle – rear frame assembly welding

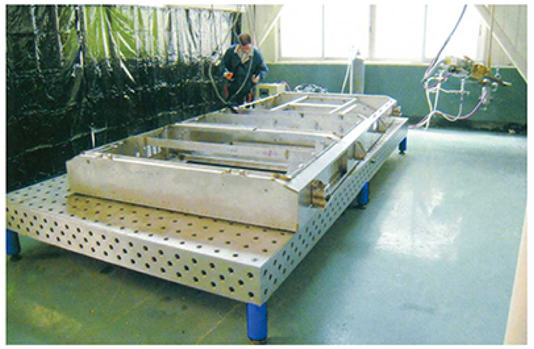
装载车–前车架组焊
Loading truck front frame assembly welding

★柔性工装与机械手配合让焊接变得更智能、更高效、更精确
The combination of flexible fixtures and robotic arms makes welding more intelligent, efficient, and precise

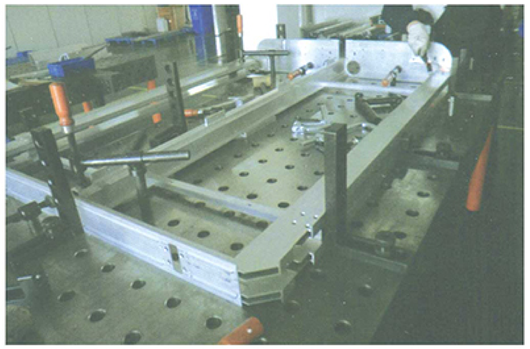
★叉车应用 Forklift applications



★交通运输 Transportation



动车空调组焊 Welding of high-speed train air conditioning unit

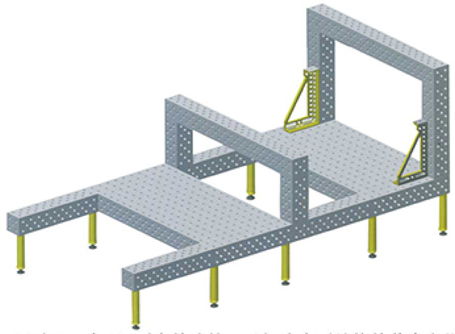


动车车窗组焊 Welding of high-speed train window assembly

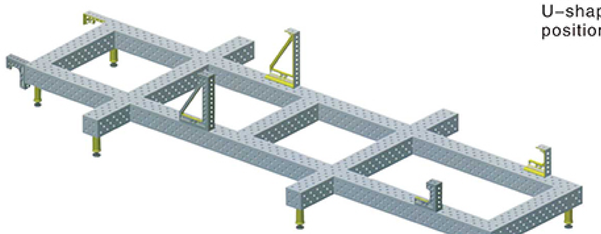
飞机机翼组焊 Aircraft wing assembly welding

★大型基础件 Large foundation components

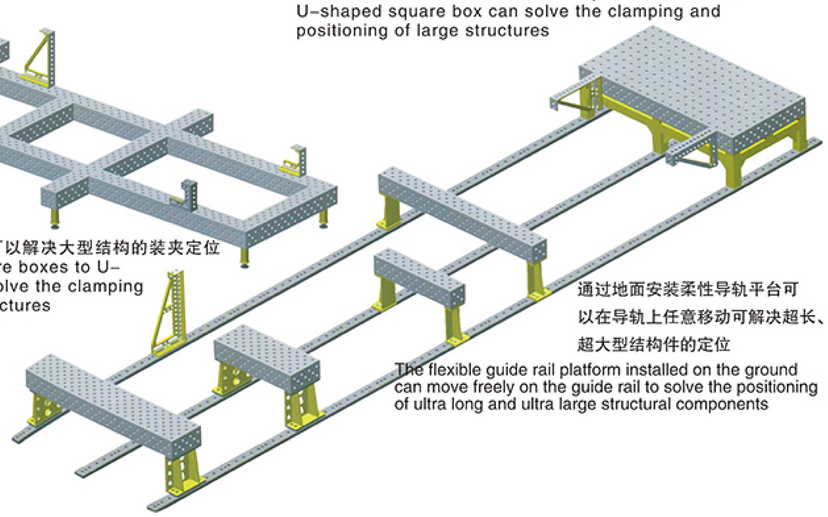
通过模块化设计，您能在短时间内完成复杂和精确的工装组合，不论是制作单一工作或是装配组件，这种方式都是非常快速和最有经济性的。
Through modular design, you can complete complex and precise tooling combinations in a short amount of time, whether it's making a single task or assembling components, this approach is very fast and cost-effective.



通过三平台跟U型方箱连接可以解决大型结构的装夹定位
The connection between the three platforms and the U-shaped square box can solve the clamping and positioning of large structures



通过U型方箱跟U型方箱连接可以解决大型结构的装夹定位
Connecting U-shaped square boxes to U-shaped square boxes can solve the clamping and positioning of large structures



通过地面安装柔性导轨平台可以在导轨上任意移动可解决超长、超大型结构件的定位
The flexible guide rail platform installed on the ground can move freely on the guide rail to solve the positioning of ultra long and ultra large structural components

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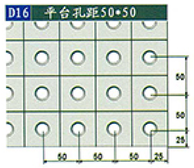
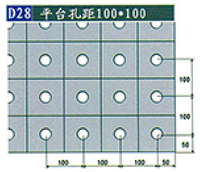
★3D多功能平台 3D multifunctional platform



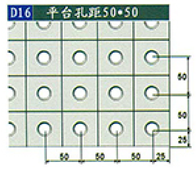


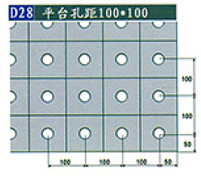
- 采用铸件／钢件制做通过退火、时效处理，坚固耐用
- 底部加强筋保证稳定不变形　・地面不平位置可通过脚垫微调保证
- 不需要量尺寸，通过平台刻线快速定位夹紧
- 五个面均可模块化延伸，拓展使用
- 不同产品，不同规格都可在平台上定位装夹
- 平台表面与孔喷有防锈润滑减小磨损

- Made from castings/steel parts, it is sturdy and durable through annealing and aging treatment
- Bottom reinforcement bars ensure stability and no deformation
- Uneven ground position can be ensured through fine adjustment of foot pads
- No size measurement required, quick positioning and clamping through platform marking
- Five sides can be modularized and extended for extended use
- Different products and specifications can be positioned and clamped on the platform
- The platform surface and holes are sprayed with rust prevention and lubrication to reduce wear

D16 3D多功能钢件平台 Multi functional steel component platform

L/mm	B/mm	H/mm	编号 Number
1000	800	100	D16FDT-3T01
1000	1000	100	D16FDT-3T02
1200	800	100	D16FDT-3T03
1200	1000	100	D16FDT-3T04
1200	1200	100	D16FDT-3T05
1500	1000	100	D16FDT-3T06
1500	1500	100	D16FDT-3T07
2000	1000	100	D16FDT-3T08
2400	1200	100	D16FDT-3T09
2000	1500	100	D16FDT-3T10
2000	2000	100	D16FDT-3T11
3000	1500	100	D16FDT-3T12





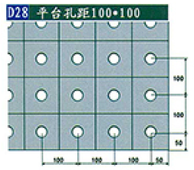
D28 3D多功能钢件平台 Multi functional steel component platform

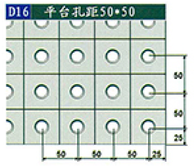
L/mm	B/mm	H/mm	编号 Number
1000	800	200	D28FDT-3T01
1000	1000	200	D28FDT-3T02
1200	800	200	D28FDT-3T03
1200	1000	200	D28FDT-3T04
1200	1200	200	D28FDT-3T05
1500	1000	200	D28FDT-3T06
1500	1500	200	D28FDT-3T07
2000	1000	200	D28FDT-3T08
2000	1500	200	D28FDT-3T09
2000	2000	200	D28FDT-3T10
2400	1200	200	D28FDT-3T11
3000	1500	200	D28FDT-3T12
3000	2000	200	D28FDT-3T13
4000	2000	200	D28FDT-3T14

- 采用铸件／钢件制做通过退火、时效处理，坚固耐用
- 底部加强筋保证稳定不变形
- 地面不平位置可通过脚垫微调保证
- 不需要量尺寸，通过平台刻线快速定位夹紧
- 五个面均可模块化延伸，拓展使用
- 不同产品，不同规格都可在平台上定位装夹
- 平台表面与孔喷有防锈润滑减小磨损

- Made from castings/steel parts, it is sturdy and durable through annealing and aging treatment
- Bottom reinforcement bars ensure stability and no deformation
- Uneven ground position can be ensured through fine adjustment of foot pads
- No size measurement required, quick positioning and clamping through platform marking
- Five sides can be modularized and extended for extended use
- Different products and specifications can be positioned and clamped on the platform
- The platform surface and holes are sprayed with rust proof lubrication to reduce wear and tear

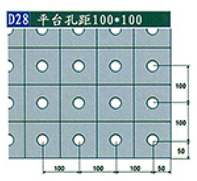
★2D多功能平台 Multifunctional platform

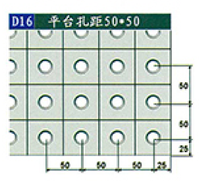




D28 2D多功能平台 Multifunctional platform			
L/mm	B/mm	H/mm	编号 Number
1000	800	150	D28FDT-2T01
1000	1000	150	D28FDT-2T02
1200	800	150	D28FDT-2T03
1200	1000	150	D28FDT-2T04
1200	1200	150	D28FDT-2T05
1500	1000	150	D28FDT-2T06
1500	1500	150	D28FDT-2T07
2000	1000	150	D28FDT-2T08
2000	1500	150	D28FDT-2T09
2000	2000	150	D28FDT-2T10
2400	1200	150	D28FDT-2T11
3000	1500	150	D28FDT-2T12
3000	2000	150	D28FDT-2T13
4000	2000	150	D28FDT-2T14

- 采用钢件焊接制做，通过退火、时效处理，坚固耐用
- 底部加强筋保证稳定不变形
- 地面不平位置可通过脚垫微调保证
- 通过平台网格式刻线快速定位夹紧
- 不同产品，不同规格都可在平台上定位装夹
- 平台表面与孔喷有防锈润滑减小磨损
- Made by welding steel parts and subjected to annealing and aging treatment, it is sturdy and durable
- Bottom reinforcement bars ensure stability and no deformation
- Uneven ground position can be ensured through fine adjustment of foot pads
- Quick positioning and clamping through platform network format marking
- Different products and specifications can be positioned and clamped on the platform
- The platform surface and holes are sprayed with rust proof lubrication to reduce wear and tear





D16 2D多功能平台 Multifunctional platform			
L/mm	B/mm	H/mm	编号 Number
1000	800	150	D16FDT-2T01
1000	1000	150	D16FDT-2T02
1200	800	150	D16FDT-2T03
1200	1000	150	D16FDT-2T04
1200	1200	150	D16FDT-2T05
1500	1000	150	D16FDT-2T06
1500	1500	150	D16FDT-2T07
2000	1000	150	D16FDT-2T08
2000	1500	150	D16FDT-2T09
2000	2000	150	D16FDT-2T10
2400	1200	150	D16FDT-2T11
3000	1500	150	D16FDT-2T12

- 采用钢件焊接制做，通过退火、时效处理，坚固耐用
- 底部加强筋保证稳定不变形
- 地面不平位置可通过脚垫微调保证
- 通过平台网格式刻线快速定位夹紧
- 不同产品，不同规格都可在平台上定位装夹
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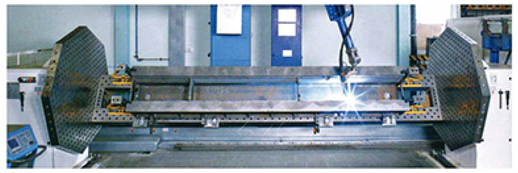
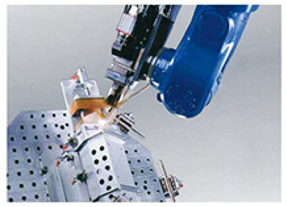
★模拟方案 Simulation Scheme

★八角平台应用案例 Application Cases of Octagonal Platform



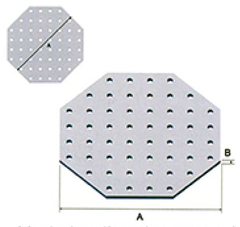
3D八角平台应用于翻转变位，根据产品重量可灵活调节重心，固定夹紧、并融入基准平台的多功能特性，使得复杂多变的产品焊接变得轻松、简单。
The 3D octagonal platform is applied for flipping and positioning, and the center of gravity can be flexibly adjusted according to the weight of the product. It is fixed and clamped, and integrated with the multifunctional characteristics of the benchmark platform, making the welding of complex and variable products easy and simple.



2D八角平台配上变位机，与机械手配合焊接，使机械手的功能得到释放扩展。
The 2D octagonal platform is equipped with a displacement machine, which is welded in conjunction with the robotic arm, allowing for the release and expansion of the robotic arm's functions.

3D八角平台的组合便用，产品的装夹与焊接可同步进行，效率可提高80%
The combination of 3D octagonal platforms is convenient, and the clamping and welding of products can be carried out synchronously, which can improve efficiency by 80%

★2D八角平台 Octagonal platform



D28 2D八角平台 Octagonal platform		
A/mm	B/mm	编号 Number
600	25	D28FDT-OT2D-1
800	25	D28FDT-OT2D-2
1000	25	D28FDT-OT2D-3

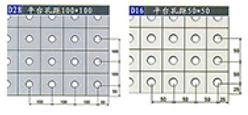
- 采用钢板直接加工制作
- 广泛用于机器人焊接与变位机
- 不需要量尺寸，通过平台刻线快速定位夹紧
- 不同产品，不同规格都可在平台上定位装夹
- 平台表面与孔喷有防锈润滑减小磨损

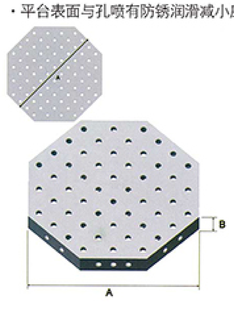
- Made by directly processing steel plates
- Widely used in robot welding and positioning machines
- No size measurement required, quick positioning and clamping through platform marking
- Different products and specifications can be positioned and clamped on the platform
- The platform surface and holes are sprayed with rust proof lubrication to reduce wear and tear

★3D八角平台 Octagonal platform

- 采用钢件焊接制作通过退火，时效处理，坚固耐用
- 底部加强筋保证稳定不变形
- 广泛用于机器人焊接与变位机
- 通过平台刻线快速定位夹紧
- 五个面均可模块化延伸，拓展使用
- 不同产品，不同规格都可在平台上定位装夹
- 平台表面与孔喷有防锈润滑减小磨损

- Made by welding steel parts and undergoing annealing and aging treatment, it is sturdy and durable
- Bottom reinforcement bars ensure stability and no deformation
- Widely used in robot welding and positioning machines
- Quick positioning and clamping through platform engraving
- Five sides can be modularized and extended for extended use
- Different products and specifications can be positioned and clamped on the platform
- The platform surface and holes are sprayed with rust proof lubrication to reduce wear and tear





D28 3D八角平台 Octagonal platform		
A/mm	B/mm	编号 Number
800	200	D28FDT-OT01
1000	200	D28FDT-OT02
1200	200	D28FDT-OT03
1400	200	D28FDT-OT04

D16 3D八角平台 Octagonal platform		
A/mm	B/mm	编号 Number
800	100	D16FDT-OT01
1000	100	D16FDT-OT02
1200	100	D16FDT-OT03
1400	100	D16FDT-OT04

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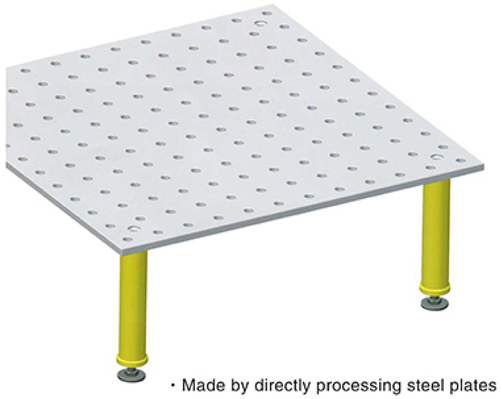
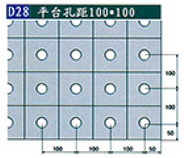
★2S多功能平台 Multifunctional platform



- 采用钢板直接加工制作
- 地面不平位置可通过脚垫微调保证
- 不需要量尺寸，通过平台刻线快速定位夹紧
- 不同产品，不同规格都可在平台上定位装夹
- 平台表面与孔喷有防锈润滑减小磨损

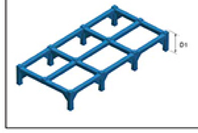


D28 2S多功能平台 Multifunctional platform			
L/mm	B/mm	H/mm	编号 Number
800	600	25	D28FDT-2S01
1000	1000	25	D28FDT-2S02
1200	1200	25	D28FDT-2S03
1500	1500	25	D28FDT-2S04
2000	1000	25	D28FDT-2S05
2400	1200	25	D28FDT-2S06

- Made by directly processing steel plates
- Uneven ground position can be ensured through fine adjustment of foot pads
- No size measurement required, quick positioning and clamping through platform marking
- Different products and specifications can be positioned and clamped on the platform
- The platform surface and holes are sprayed with rust proof lubrication to reduce wear and tear

★D28/D16支撑件 Supporting components

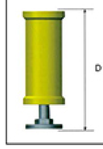
框架支撑件 Frame support components		
	D1/mm	编号 Number
	200±30	D28FDT-FSC01
	350±30	D28FDT-FSC02
	450±30	D28FDT-FSC03
	600±30	D28FDT-FSC04



- 采用型材焊接退化制作，坚固、稳定
- 脚垫为球头型，适合重型焊接场合
- 选用此支撑腿，平台综合承重≤5T

Made by welding degraded profiles, sturdy and stable
The foot pads are ball shaped and suitable for heavy-duty welding situations
Using this support leg, the platform's comprehensive load-bearing capacity is ≤ 5T

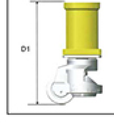
标准支撑腿 Standard Support Legs		
	D1/mm	编号 Number
	200±30	D28FDT-SL01
	350±30	D28FDT-SL02
	450±30	D28FDT-SL03
	620±30	D28FDT-SL04



- 采用钢管制作，坚固耐用
- 脚垫为球头型，调节方便快捷
- 选用此支撑腿，平台综合承重≈2T

Made of steel pipes, sturdy and durable
The foot pads are ball shaped, easy and fast to adjust
Using this support leg, the platform's comprehensive load-bearing capacity is ≈ 5T

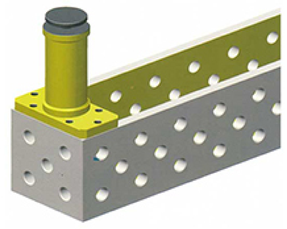
带轮支撑腿 Wheeled support legs		
	D1/mm	编号 Number
	350	D28FDT-UL01
	450	D28FDT-UL02
	620	D28FDT-UL03

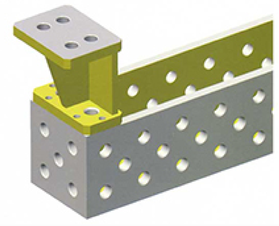


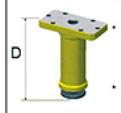
- 采用钢管制作，坚固耐用
- 带刹车脚轮，适合小型可移动场合
- 选用此支撑腿，平台综合承重≤1T

Made of steel pipes, sturdy and durable
Equipped with brake casters, suitable for small and movable occasions
Using this support leg, the platform's comprehensive load-bearing capacity i s ≤ 1T

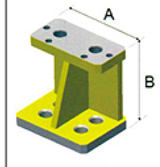
★U型方箱支撑件 U-shaped square box support





D28 U型方箱支撑腿 U-shaped square box support legs		
 ・采用钢管制作，坚固耐用 ・脚垫为球头型，调节方便快捷 ・选用此支撑腿，平台综合承重≈2T	D1/mm	编号 Number
	200±30	D28FDT-UBL01
	350±30	D28FDT-UBL02
	450±30	D28FDT-UBL03
	620±30	D28FDT-UBL04

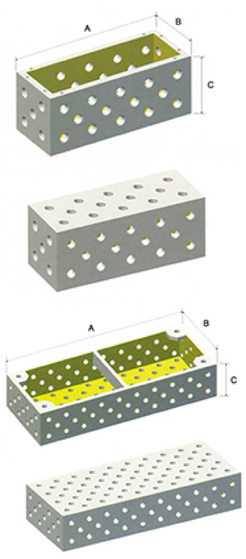
Made of steel pipes, sturdy and durable
The foot pads are ball shaped, easy and fast to adjust
Using this support leg, the platform's comprehensive load-bearing capacity is ≈ 2T

D28 U型方箱支撑腿 U-shaped square box support legs			
 ・采用钢板焊接制作，通过退炎处理、坚固耐用 ・带刹车脚轮，适合小型可移动场合 ・选用此支撑腿，平台综合承重≤1T	A/mm	B/mm	编号 Number
	200	200	D28FDT-UBL05
	200	400	D28FDT-UBL06
	200	600	D28FDT-UBL07
	400	200	D28FDT-UBL08
	400	400	D28FDT-UBL09
	400	600	D28FDT-UBL10

Made by welding steel plates and treated with anti inflammation, it is sturdy and durable
Equipped with brake casters, suitable for small and movable occasions
Using this support leg, the platform's comprehensive load-bearing capacity is ≤ 1T

★U型方箱 U-shaped square box

・方箱的便捷连接，轻易形框架结构・与不同支撑件组合可形成类似平台基础
・5个有效工作面・规范范围广，最大可至4000mm长
・超长立式使用可采用支撑脚铁增加强度
・The convenient connection of the square box and the easy formation of a frame structure can form a similar platform foundation when combined with different supporting components
・5 effective working faces with a wide range of specifications, up to a maximum length of 4000mm
・Ultra long vertical use can use supporting foot iron to increase strength



D28 U型方箱 U-shaped square box			
A/mm	B/mm	H/mm	编号 Number
500	200	200	D28FDT-UB01
1000	200	200	D28FDT-UB02
1200	200	200	D28FDT-UB03
1500	200	200	D28FDT-UB04
2000	200	200	D28FDT-UB05
2400	200	200	D28FDT-UB06
3000	200	200	D28FDT-UB07
4000	200	200	D28FDT-UB08
500	400	200	D28FDT-UB01B
1000	400	200	D28FDT-UB02B
1200	400	200	D28FDT-UB09
1500	400	200	D28FDT-UB04B
2000	400	200	D28FDT-UB05B
2400	400	200	D28FDT-UB10
3000	400	200	D28FDT-UB07B
4000	400	200	D28FDT-UB08B

D16 U型方箱 U-shaped square box			
A/mm	B/mm	C/mm	编号 Number
150	100	100	D16FDT-UB01
250	100	100	D16FDT-UB02
300	100	100	D16FDT-UB03
500	100	100	D16FDT-UB04
800	100	100	D16FDT-UB05

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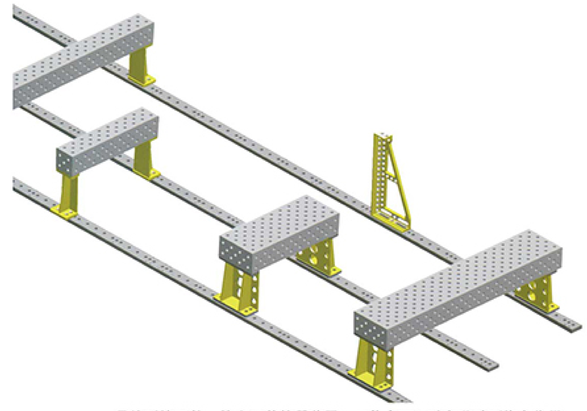
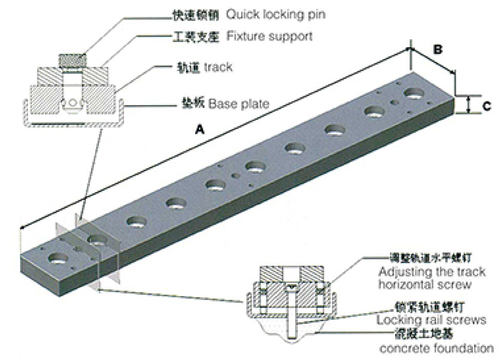
★2S多功能平台 Multifunctional platform

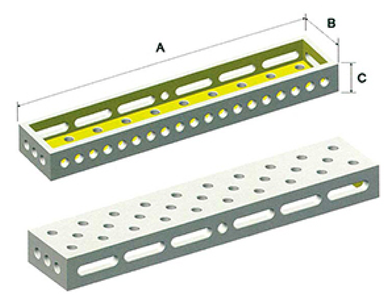




・导轨对接延伸，扩大工装使用范围・工作台可以随意移动到指定位置
・通过螺钉调节整体水平度・地面基础采用简易钣金折弯件
・重载型可预埋基础保证沉降误差
・Rail docking extension, expanding the range of tooling use, and allowing the workbench to move freely to designated positions
・Adjust the overall levelness through screws. The ground foundation adopts simple sheet metal bending parts
・Heavy load pre embedded foundation ensures settlement error

D28柔性导轨 Flexible guide rail			
A/mm	B/mm	C/mm	编号 Number
1000	150	50	D28FDT-TK01
2000	150	50	D28FDT-TK02
3000	150	50	D28FDT-TK03
4000	150	50	D28FDT-TK04

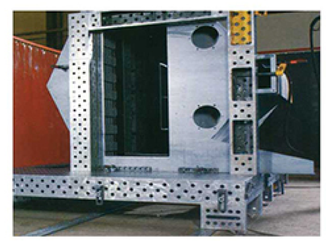
★C型方箱 C-shaped square box

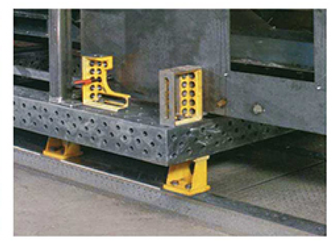


两个不同平面的连接，扩展条形孔，可以微调基础件
5个有效工作面
可代替部分U型方箱功能
Connection of two different planes, expansion of strip holes, and ability to fine tune basic components
5 effective working faces
Can replace some U-shaped square box functions

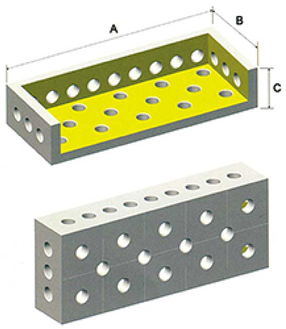
D28 C型方箱 C-shaped square box			
A/mm	B/mm	C/mm	编号 Number
300	200	100	D28FDT-CSSB01
500	200	100	D28FDT-CSSB02
1000	200	100	D28FDT-CSSB03

D16 C型方箱 C-shaped square box			
A/mm	B/mm	C/mm	编号 Number
150	100	50	D16FDT-CSSB01
250	100	50	D16FDT-CSSB02
300	100	50	D16FDT-CSSB03





★L型方箱 L-shaped square box

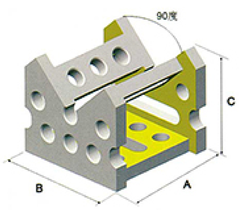


- 四个面均可模块化延伸，扩展与组合
- 4个有效工作面
- 规格范围广，最大可至4000mm长
- 超长立式使用可采用支撑脚铁增加强度
- Four faces can be modularized for extension, expansion, and combination
- 4 effective working faces
- Wide range of specifications, up to a maximum length of 4000mm
- Ultra long vertical use can use supporting foot iron to increase strength

D28 L型方箱L-shaped square box			
A/mm	B/mm	C/mm	编号 Number
500	200	100	D28FDT-LB01
1000	200	100	D28FDT-LB02
1200	200	100	D28FDT-LB03
1500	200	100	D28FDT-LB04
2000	200	100	D28FDT-LB05

D16 L型方箱 L-shaped square box			
A/mm	B/mm	C/mm	编号 Number
300	100	50	D16FDT-LB01
500	100	50	D16FDT-LB02

角型连接块 Corner connection block

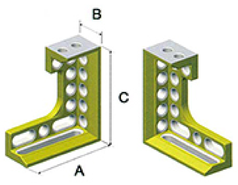


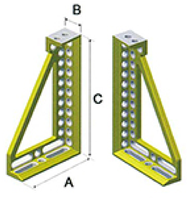
D28 角型连接块 Corner connection block			
A/mm	B/mm	C/mm	编号 Number
200	200	175	D28FDT-AB01

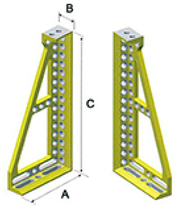
D16 角型连接块 Corner connection block			
A/mm	B/mm	C/mm	编号 Number
100	100	75	D16FDT-AB01

★支撑角铁 Supporting angle iron

- 角铁固定后有三个方向可做柔性连接
- 槽型孔位方便微调以及定位
- 标准的90度直角可作垂直基准定位
- 整体铸造成型，美观、稳定、耐用
- 可任意调整，并能精确定位
- After fixing the angle iron, there are three directions for flexible connection
- The groove hole position is convenient for fine adjustment and positioning
- The standard 90 degree right angle can be used as a vertical reference for positioning
- Integrated casting molding, beautiful, stable, and durable
- Can be adjusted arbitrarily and accurately positioned







D28 支撑角铁 Supporting angle iron				
A/mm	B/mm	C/mm		编号 Number
275	100	300	左Left	D28FDT-SA1L
275	100	300	右right	D28FDT-SA1R
375	100	600	左Left	D28FDT-SA2L
375	100	600	右right	D28FDT-SA2R
375	100	800	左Left	D28FDT-SA3L
375	100	800	右right	D28FDT-SA3R

D16 支撑角铁 Supporting angle iron				
A/mm	B/mm	C/mm		编号 Number
140	50	200	左Left	D16FDT-SA1L
140	50	200	右right	D16FDT-SA1R
190	50	400	左Left	D16FDT-SA2L
190	50	400	右right	D16FDT-SA2R
190	50	600	左Left	D16FDT-SA3L
190	50	600	右right	D16FDT-SA3R

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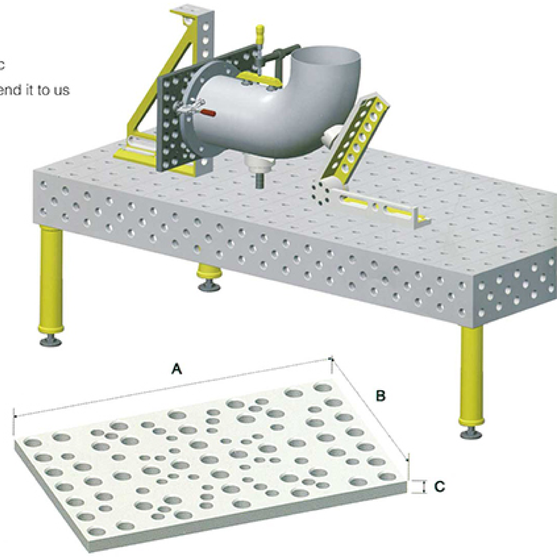
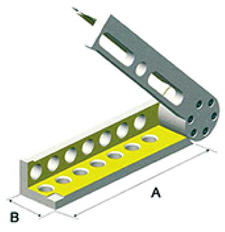
★法兰定位板 Flange positioning plate

- 法兰定位板适合国标GB、JIS标准、ANS标准等多种
- 下单时请注明你用的法兰标准或法兰尺寸给我们
- The flange positioning plate is suitable for various national standards such as GB, JIS, ANS, etc
- When placing an order, please indicate the flange standard or flange size you are using and send it to us

D28法兰定位板 ANSI 150 RF Flange positioning plate			
A/mm	B/mm	C/mm	编号 Number
350	250	25	D28FDT-ML01
550	350	25	D28FDT-ML02
450	350	25	D28FDT-ML03
750	350	25	D28FDT-ML04



★角度器 Angler



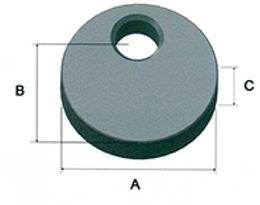
- 调节范围0-225度可任意定位角度
- 可作为基础定位件使用
- 360度刻度盘清晰观察角度变化
- 标准的孔位可与其他附件轻松连接组合
- 通过拉力让锥度面摩擦阻尼增加锁紧
- Adjustable range from 0 to 225 degrees, allowing for arbitrary positioning angle
- Can be used as a basic positioning component
- 360 degree dial for clear observation of angle changes
- Standard hole positions can be easily connected and combined with other accessories
- Increase locking by pulling force to increase friction damping on the tapered surface

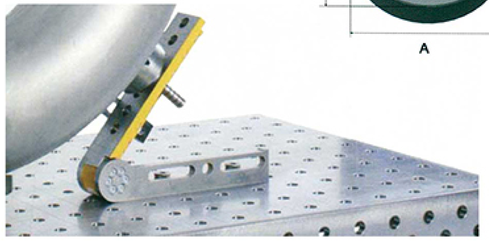
D28 角度器 Angler		
A/mm	B/mm	编号 Number
500	100	D28FDT-AL01

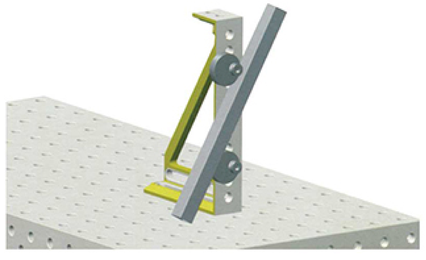
D16 角度器 Angler		
A/mm	B/mm	编号 Number
250	50	D16FDT-AL01

D28偏心定位块 Eccentric positioning block			
A/mm	B/mm	C/mm	编号 Number
75	50	25	D28FDT-ED01
100	75	25	D28FDT-ED02

偏心定位块
Eccentric positioning block

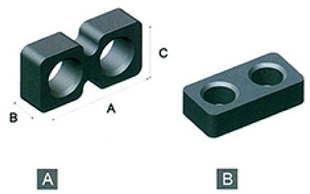






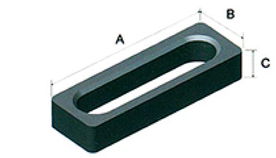
★定位平尺 Positioning ruler

- 根据定位工件的高度选择不同高度角尺・依靠条形孔可做微调定位件
- 角尺与其他附件配合可任意定位高度、角度
- Choose different height angle rulers based on the height of the positioning workpiece. Fine adjustment of the positioning part can be made by relying on the strip hole
- The angle ruler can be used in conjunction with other accessories to position the height and angle at will



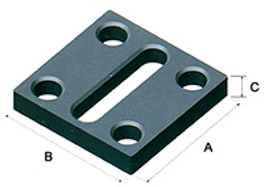
D28定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
100	50	25	D28FDT-PR01

D16定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
55	30	12	D16FDT-PR01



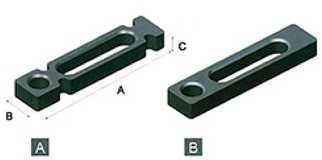
D28定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
150	50	25	D28FDT-PR02

D16定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
90	30	12	D16FDT-PR02



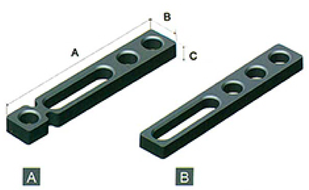
D28定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
150	150	25	D28FDT-PR08

D16定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
75	75	12	D16FDT-PR07



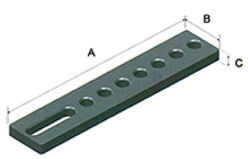
D28定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
225	50	25	D28FDT-PR03

D16定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
115	30	12	D16FDT-PR03



D28定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
300	50	25	D28FDT-PR04
500	75	25	D28FDT-PR05

D16定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
150	30	12	D16FDT-PR04



D28定位平尺 Positioning ruler			
A/mm	B/mm	C/mm	编号 Number
800	75	25	D28FDT-PR06
1000	100	25	D28FDT-PR07

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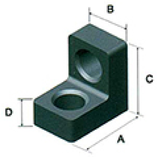
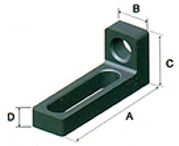
★定位角尺 Positioning angle ruler

- 根据定位工件的高度选择不同高度角尺・依靠条形孔可做微调定位件
- 角尺与其他附件配合可任意定位高度、角度
- Choose different height angle rulers based on the height of the positioning workpiece. Fine adjustment of the positioning part can be made by relying on the strip hole
- The angle ruler can be used in conjunction with other accessories to position the height and angle at will

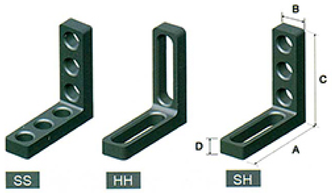


D28定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
75	50	75	25	D28FDT-PS01



D16定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
40	30	40	12	D16FDT-PS01

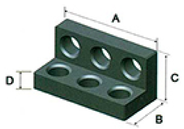
D28定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
175	50	75	25	D28FDT-PS02

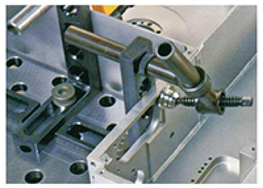


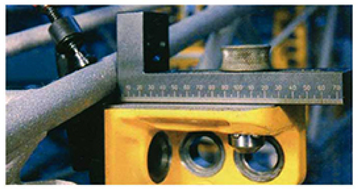
D16定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
90	30	40	12	D16FDT-PS02

D28定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
175	50	175	25	D28FDT-PS03

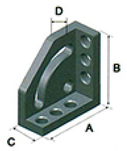
D16定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
90	30	90	12	D16FDT-PS03



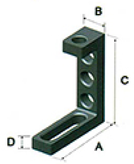




D28定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
150	75	75	25	D28FDT-PS08

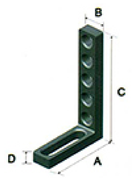


D28定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
200	75	200	25	D28FDT-PS12



D16定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
100	37	100	12	D16FDT-PS07

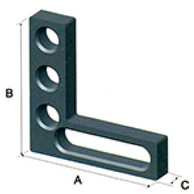
D28定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
175	50	200	25	D28FDT-PS07

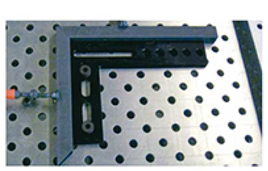


D28定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
175	50	275	25	D28FDT-PS06

D16定位角尺 Positioning angle ruler				
A/mm	B/mm	C/mm	D/mm	编号 Number
90	30	140	12	D16FDT-PS06

★平面角尺 Flat angle ruler





- 可精确作为中间转接定位件・依靠条形孔，可做微调定位件・可做为90标准尺使用
- Can be accurately used as an intermediate transfer positioning component. With the help of a strip hole, it can be used as a fine adjustment positioning component. It can also be used as a 90 standard ruler

D28 平面角尺 Flat angle ruler			
A/mm	B/mm	C/mm	编号 Number
175	175	25	D28FDT-PA01
225	275	25	D28FDT-PA02
225	325	25	D28FDT-PA03

D16 平面角尺 Flat angle ruler			
A/mm	B/mm	C/mm	编号 Number
105	105	12	D16FDT-PA01

D28 平面角尺 Flat angle ruler			
A/mm	B/mm	C/mm	编号 Number
375	500	25	D28FDT-PA04

D16 平面角尺 Flat angle ruler			
A/mm	B/mm	C/mm	编号 Number
200	275	12	D16FDT-PA04

★调整垫片 SHIM

- 调节范围：（D28系列）5-100mm、D16系列5-50mm最小调节精度1.0mm
- 标准厚度的垫片，可以快速观察调节尺寸的变化
- 同一系统的任意孔位均可适用
- 轴上均布O型圈，保证在任意位置能自锁定位
- Adjustment range: (D28 series) 5-100mm, D16 series 5-50mm, minimum adjustment accuracy 1.0mm
- Standard thickness gaskets allow for quick observation and adjustment of size changes
- Any hole position in the same system can be applicable
- O-ring evenly distributed on the shaft to ensure self-locking and positioning at any position

D28 圆形调整垫片 Round adjusting shims		
A/mm	B/mm	编号 Number
125	28	D28FDT-RS

D16 圆形调整垫片 Round adjusting shims		
A/mm	B/mm	编号 Number
125	16	D16FDT-RS

D16 圆形调整垫片 SHIM	
A/mm	B/mm
1	25
2	25
2.5	25
3	25
4	25
5	25
10	25
20	25
40	25
50	25

D28 圆形调整垫片 SHIM	
A/mm	B/mm
0.5	50
1	50
2	50
3	50
4	50
5	50
10	50
20	50
30	50
40	50

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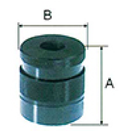
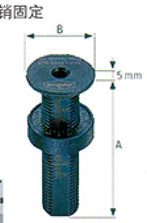
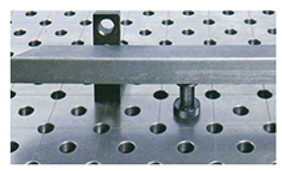
★精密螺纹调高件 Precision thread height adjustment parts



- 调节范围：D28系列75-100mm、D16系列60-90mm
- 最小调节精度1.0mm
- 最大负载不超过500kg
- 可用沉头快速锁销固定

- Adjustment range: D28 series 75-100mm, D16 series 60-90mm
- Minimum adjustment accuracy 1.0mm
- Maximum load not exceeding 500kg
- Can be fixed with a countersunk quick locking pin





D28 调高器 Height controller		
A/mm	B/mm	编号 Number
75-100	80	D28FDT-HC01

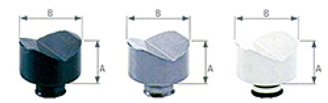
D16 调高器 Height controller		
A/mm	B/mm	编号 Number
60-90	48	D16FDT-HC01

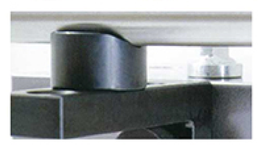
D28 调高器 Height controller		
A/mm	B/mm	编号 Number
135+5	50	D28FDT-HC02

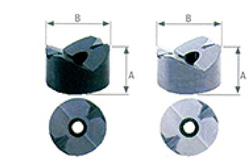
D16 调高器 Height controller		
A/mm	B/mm	编号 Number
55+5	25	D16FDT-HC02

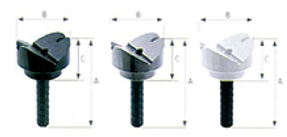
- 连续调节范围22-105mm（28系列）
- 最小调节精度0.1mm，可直接放在平台上调节 ・最大负载不超过500kg ・安装在孔内并用螺母锁紧，方便快捷
- Continuous adjustment range 22-105mm (28 series)
- The minimum adjustment accuracy is 0.1mm, which can be directly adjusted on the platform
- Maximum load not exceeding 500kg
- Installed in the hole and locked with nuts, convenient and fast

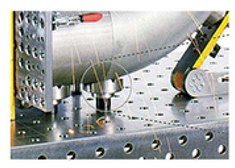
★V型定位件 V-shaped positioning component











- 专门针对管件的定位件
- 管件的直径不同，选择不同的角度
- V型块的连接分为整体以及螺钉连接
- 材质可分为：不锈钢、铜、尼龙
- 角度分为：单一、接叉、复合、组合
- Positioning components specifically designed for pipe fittings
- Different diameters of pipe fittings, choose different angles
- The connection of V-shaped blocks is divided into integral and screw connections
- Materials can be divided into: stainless steel, copper, nylon
- Angles are divided into: single, crossover, composite, and combination

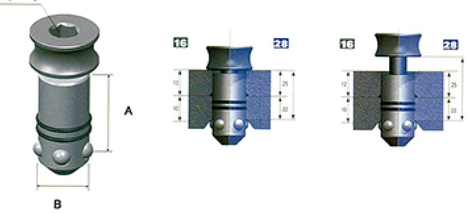
D28 V型调高件V-shaped height adjustment component			
A/mm	B/mm	角度 Angle	编号 Number
50	58	90°	D28FDT-VB01
50	58	120°	D28FDT-VB02

D16 V型调高件V-shaped height adjustment component			
A/mm	B/mm	角度 Angle	编号 Number
35	48	130°	D16FDT-VB01
50	80	130°	D16FDT-VB03

D28 V型调高件V-shaped height adjustment component				
A/mm	B/mm	C/mm	角度 Angle	编号 Number
120	110	60	120°	D28FDT-VB04
120	140	70	140°	D28FDT-VB05

★快速锁销 Quick locking pin

SW14(D28)
SW8(D16)



- 2个部件同时运动，快速锁紧与松开
- 可快速定位锁紧，夹紧力大
- O型圈增大摩擦扭力，避免打滑
- 顶部设有内六角沉孔SW14（D28）/SW8（D16）强力锁紧
- 平台论理厚度D28（25）/D16（12）
- Two components moving simultaneously, quickly locking and releasing
- Can quickly locate and lock, with high clamping force
- O-ring increases friction torque to avoid slipping
- Top equipped with internal hexagonal countersunk hole SW14 (D28)/SW8 (D16) for strong locking
- Platform theoretical thickness D28 (25)/D16 (12)

D28 快速锁销Quick locking pin			
A/mm	B/mm	描述 Describe	编号 Number
50	28	锁紧力 Locking force25	D28FDT-LP01
75	28	抗剪切力 Shear resistance≈200	D28FDT-LP02

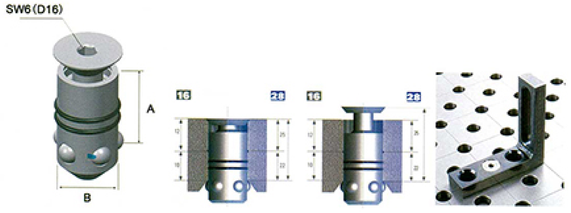
D16 快速锁销Quick locking pin			
A/mm	B/mm	描述 Describe	编号 Number
24	16	锁紧力 Locking force 10	D16FDT-LP01
36	16	抗剪切力 Shear resistance≈50	D16FDT-LP02

★快速沉头锁销 Quick countersunk locking pin

- 锥形头锁紧后不干涉其他安装
- 可快速定位锁紧，夹紧力大
- O型圈增大摩擦扭力，避免打滑
- 顶部设有内六角沉孔SW10（D28）/SW6（D16）强力锁紧
- 平台论理厚度D28（25）/D16（12）

- After locking the conical head, it does not interfere with other installations
- Can quickly locate and lock, with high clamping force
- O-ring increases friction torque to avoid slipping
- Top equipped with internal hexagonal countersunk hole SW10 (D28)/SW6 (D16) for strong locking
- Platform theoretical thickness D28 (25)/D16 (12)

SW6(D28)
SW6(D16)

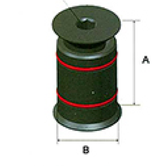


D28 快速沉头锁销 Quick countersunk locking pin			
A/mm	B/mm	描述 Describe	编号 Number
50	28	锁紧力 Locking force 5	D28FDT-LP03
75	28	抗剪切力 Shear resistance≈200	D28FDT-LP08

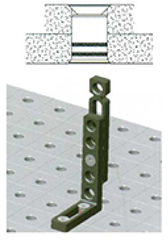
D16 快速沉头锁销 Quick countersunk locking pin			
A/mm	B/mm	描述 Describe	编号 Number
24	16	锁紧力 Locking force 5	D16FDT-LP03
36	16	抗剪切力 Shear resistance≈50	D16FDT-LP04

★沉头锁销 Countersunk locking pin

SW8(D28)
SW6(D16)



- 两头锥形头锁紧后对定位、安装不干涉
- O型圈增大摩擦扭力，避免打滑
- 两头设有内六角沉孔SW8（D28）/SW6（D16）强力锁紧
- 平台论理厚度D28（25）/D16（12）
- After locking the two conical heads, they do not interfere with positioning and installation
- O-ring increases friction torque to avoid slipping
- Both ends are equipped with internal hexagonal countersunk holes SW8 (D28)/SW6 (D16) for strong locking
- Platform theoretical thickness D28 (25)/D16 (12)

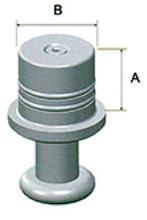


D28 沉头锁销 Countersunk locking pin		
A/mm	B/mm	编号 Number
50	28	D28FDT-LP05
75	28	D28FDT-LP06

D16 沉头锁销 Countersunk locking pin		
A/mm	B/mm	编号 Number
24	16	D16FDT-LP06
36	16	D16FDT-LP07

★磁性锁销 Magnetic locking pin

- 磁性锁销广泛用于钣金行业 ・其吸紧力70N ・方便定位、快速拆卸
- Magnetic locking pins are widely used in the sheet metal industry
- Its suction force is 70N
- Convenient positioning and quick disassembly



D28 磁性锁销 Magnetic locking pin		
A/mm	B/mm	编号 Number
25	28	D28FDT-MP01
50	28	D28FDT-MP02

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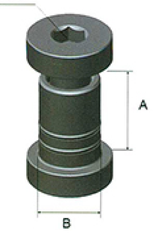
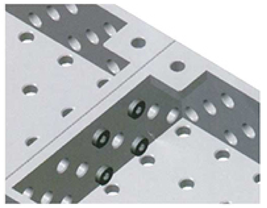
★链接锁紧销 Link locking pin

SW14(D28)
SW8(D16)

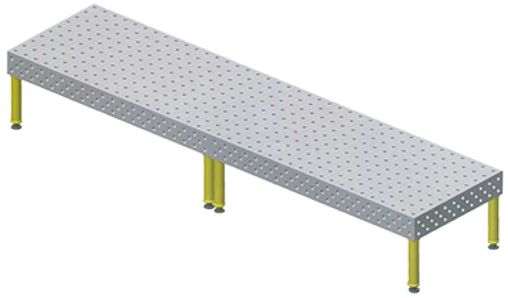


- 链接锁销用于平台对接、平台与其他附件对接其锁紧力大
- O型圈增大摩擦扭力，避免打滑
- 两头设有内六角沉孔SW10（D28）/SW6（D16）强力锁紧
- 平台论理厚度D28（25）/D16（12）
- Link locking pins are used for platform docking, platform docking with other attachments, and their locking force is high
- O-ring increases friction torque to avoid slipping
- Both ends are equipped with internal hexagonal countersunk holes SW10 (D28)/SW6 (D16) for strong locking
- Platform theoretical thickness D28 (25)/D16 (12)

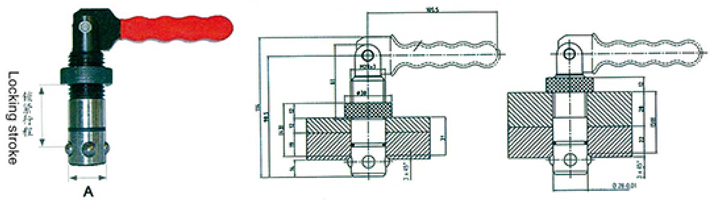


D28 链接锁紧销 Link locking pin		
A/mm	B/mm	编号 Number
50	28	D28FDT-LP07
75	28	D28FDT-LP08

D16 链接锁紧销 Link locking pin		
A/mm	B/mm	编号 Number
24	16	D16FDT-LP08
36	16	D16FDT-LP09



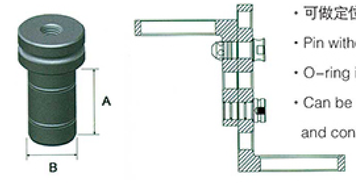
★多功能锁销 Multifunctional locking pin



- 有效锁紧厚度31-50mm
- 可快速定位锁紧，夹紧力大
- O型圈增大摩擦扭力，避免打滑
- 手柄锁紧快速装夹、拆卸
- 平台论理厚度D28（25）/D16（12）
- Effective locking thickness 31-50mm
- Can quickly locate and lock, with high clamping force
- O-ring increases friction torque to avoid slipping
- Quick clamping and disassembly of handle locking
- Platform theoretical thickness D28 (25)/D16 (12)

D28多功能锁销 Multifunctional locking pin		
锁紧行程Locking storke	A/mm	编号 Numbor
30-50	28	D28FDT-LP04

★插销 latch

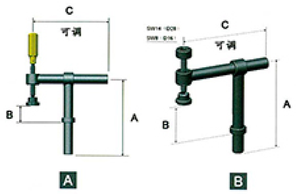


- 插销不带锁紧装置
- O型圈增大摩擦扭力，避免打滑
- 可做定位销使用、可靠定位、拆装方便
- Pin without locking device
- O-ring increases friction torque to avoid slipping
- Can be used as a positioning pin, reliable positioning, and convenient disassembly and assembly

D28 插销 latch		
A/mm	B/mm	编号 Number
50	28	D28FDT-PP01

D16 插销 latch		
A/mm	B/mm	编号 Number
24	16	D16FDT-PP01

★伸缩压紧件 Expansion and contraction fasteners

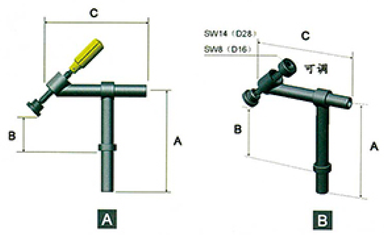


- 足够强度的梯形螺纹压紧
- 360度旋转调节，方便取料、放料
- 压垫可根据材的特性，形状定制
- 止动环轻松调节高度位置
- Sufficient strength of trapezoidal thread compression
- 360 degree rotation adjustment for convenient material retrieval and placement
- The pressure pad can be customized according to the characteristics and shape of the material
- The stop ring easily adjusts the height and position

D28 伸缩压紧件 Expansion and contraction fasteners			
A/mm	B/mm	C/mm	编号 Number
300	220	300	D28FDT-SC01
350	270	300	D28FDT-SC01-1
500	420	300	D28FDT-SC01-2

D16 伸缩压紧件 Expansion and contraction fasteners			
A/mm	B/mm	B/mm	编号 Number
200	150	160	D16FDT-SC01

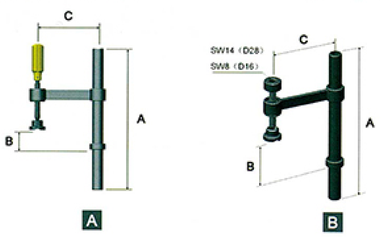
★45度压紧件 45 degree compression piece



D28 45度压紧件 45 degree compression piece			
A/mm	B/mm	C/mm	编号 Number
300	220	300	D28FDT-SC03
350	270	300	D28FDT-SC03-1
500	420	300	D28FDT-SC03-2

D16 45度压紧件 45 degree compression piece			
A/mm	B/mm	C/mm	编号 Number
200	150	160	D16FDT-SC03

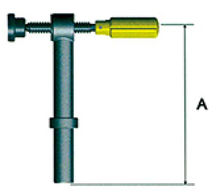
★固定压紧件 Fixed clamping parts



D28 固定压紧件 Fixed clamping parts			
A/mm	B/mm	C/mm	编号 Number
300	220	150	D28FDT-SC04
300	220	200	D28FDT-SC05

D16固定压紧件 Fixed clamping parts			
A/mm	B/mm	C/mm	编号 Number
200	150	120	D16FDT-SC04

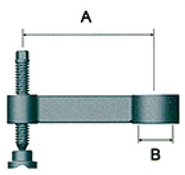
★90度压紧件 90 degree clamping piece



D28 90度压紧件 90 degree clamping piece	
A/mm	编号 Number
300	D28FDT-SC02

D16 90度压紧件 90 degree clamping piece	
A/mm	编号 Number
160	D16FDT-SC02

★大力压紧头 Firmly press the head



D28 大力压紧头 Firmly press the head		
A/mm	B/mm	编号 Number
200	50	D28FDT-SC05-00

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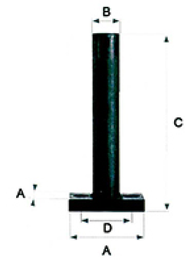
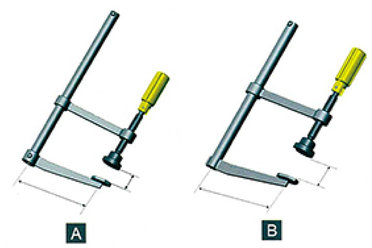
★大力压紧杆 Firmly press the rod



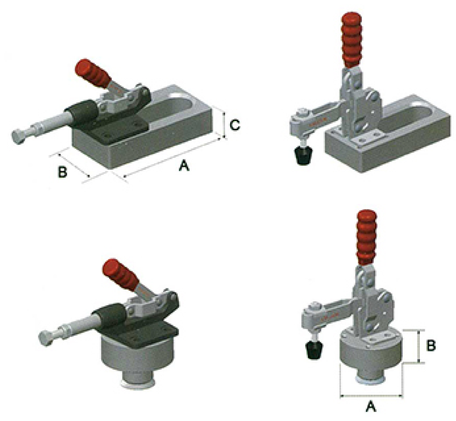
D28 大力压紧杆 Firmly press the rod				
A/mm	B/mm	C/mm	D/mm	编号 Number
150	50	200	100	D28FDT-FR01
150	50	350	100	D28FDT-FR02
150	50	700	100	D28FDT-FR03
150	50	1000	100	D28FDT-FR04

★组合式F钳 固定式F钳 Combination F pliers, fixed F pliers



D28 F钳 F pliers		
A/mm	B/mm	编号 Number
150	300	D28FDT-FLS01
200	300	D28FDT-FLS02
150	600	D28FDT-FLS03
200	600	D28FDT-FLS04

★快速夹 Toggle clamp



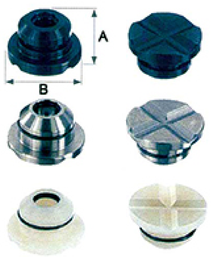
D28 快速夹(方形底座)Quick clip (square base)			
A/mm	B/mm	C/mm	编号 Number
100	60	25	D28FDT-QC05

D16 快速夹(方形底座)Quick clip (square base)			
A/mm	B/mm	C/mm	编号 Number
100	60	12	D16FDT-QC05

D28 快速夹(圆形底座)Quick clip (circular base)		
A/mm	B/mm	编号 Number
50	20	D28FDT-QC02

D16 快速夹(圆形底座)Quick clip (circular base)		
A/mm	B/mm	编号 Number
50	15	D16FDT-QC02

★平面压垫 Flat pressure pad



- 焊接产品的材料不同，选择压紧垫
- 材质可分为：碳钢、不锈钢、铝等材质
- Different materials for welding products, choose compression pads
- Materials can be divided into: carbon steel, stainless steel, aluminum, and other materials

D28平面压垫 Flat pressure pad		
A/mm	B/mm	编号 Number
22	40	D28FDT-DP01

D16平面压垫 Flat pressure pad		
A/mm	B/mm	编号 Number
13	22	D16FDT-FP01

★圆形压垫 Circular pressure pad

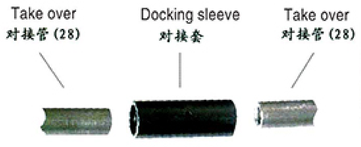
D28 圆形压垫 Circular pressure pad		
A/mm	B/mm	编号 Number
21	35	D28FDT-CP01

D16 圆形压垫 Circular pressure pad		
A/mm	B/mm	编号 Number
14	20	D16FDT-CP01

★两点压紧件 Two point clamping piece

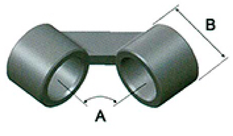
D28两点压紧件 Two point clamping piece		
A/mm	B/mm	编号 Number
170	25	D28FDT-CB01

★对接套 Docking sleeve



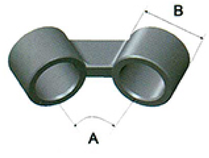
D28 对接套 Docking sleeve		
A/mm	B/mm	编号 Number
170	25	D28FDT-DS01

★水平90度转角套
Horizontal 90 degree corner sleeve



D28 水平90度转角套 Horizontal 90 degree corer sleeve		
A/mm	B/mm	编号 Number
90	28	D28FDT-CC01

★水平45度转角套
Horizontal 45 degree corner sleeve



D28 水平45度转角套 Horizontal 90 degree corer sleeve		
A/mm	B/mm	编号 Number
45	28	D28FDT-CC02

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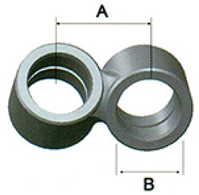
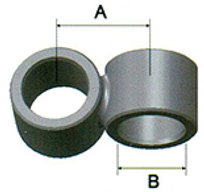
★交叉45度转角套
Cross 45 degree corner sleeve



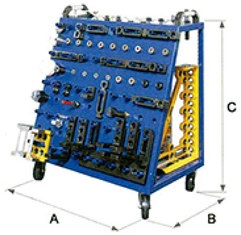
D28 交叉45度转角套 Cross 45 degree corner sleeve		
A/mm	B/mm	编号 Number
45	28	D28FDT-CC05

★交叉90度转角套
Cross 90 degree corner sleeve



D28 交叉90度转角套 Cross 90 degree corner sleeve		
A/mm	B/mm	编号 Number
90	28	D28FDT-CC04

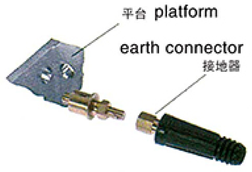
★工具推车 Tool cart



D28 工具推车 Tool cart			
A/mm	B/mm	C/mm	编号 Number
1000	600	1065	D28FDT-AC

D16 工具推车 Tool cart			
A/mm	B/mm	C/mm	编号 Number
1000	600	1065	D16FDT-AC

★接地器 earth connector



★起吊环 lifting ring

★内六角扳手 allen key

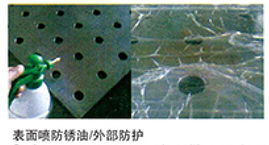
★毛刷 brush

孔位清理 Hole cleaning

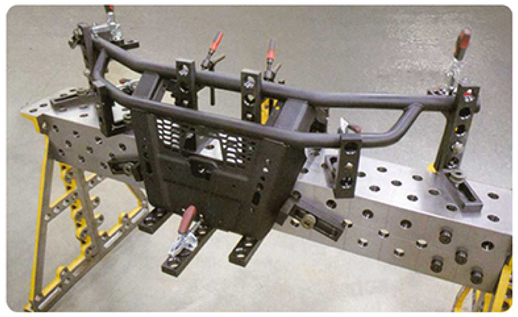
★油石 oilstone

平台表面清渣，油石打磨
Platform surface cleaning, oil stone polishing

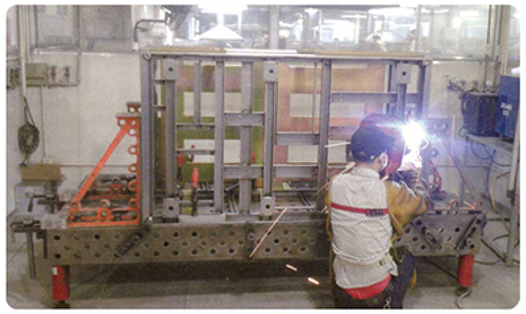
★油壶 oiler



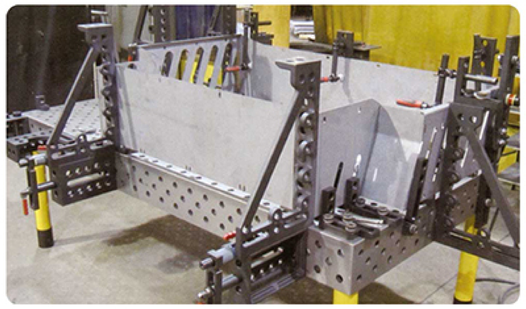
表面喷防锈油/外部防护
Surface spray rust prevention oil/external protection



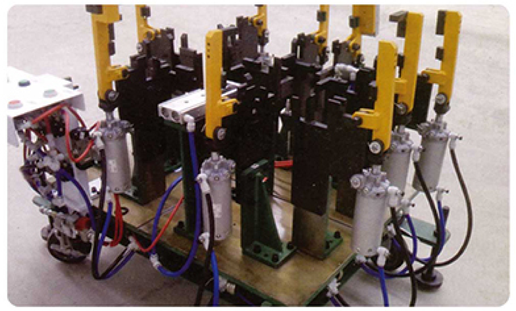
管件应用
Application of pipe fittings



精密机架应用
Precision rack applications



广泛应用精密钣金行业
Widely used in the precision sheet metal industry



专用汽车焊接工装
Special Vehicle Welding Fixture

★机器人柔性焊接平台
Robot flexible welding platform

孔径 Aperture	规格尺寸 Specifications and dimensions
D16	1200x800x750
D16	1500x800x750

★简易平台
Easy platform

孔径 Aperture	规格尺寸 Specifications and dimensions
D28	1200x800x750
D28	1500x800x750

河北法德通机械制造有限公司
Hebei Fadetong Machinery Manufacturing Co., LTD

★钳工焊接台 Fitter welding table

钳工焊接台是一种集焊接、装配、检验为一体的新型先进柔性工艺装备。它具有三维柔性组合焊接工装夹具同样的互换性，好焊台背板上可悬挂多种不同功能的操作工具，有条理放置整齐，使之一目了然，而且能快速取放，与传统普通平板焊台对比可以提高工作效率50%-80%，使用过程中可选择多样式的三维标准夹具配件进行定位加工作业，操作简单、使用方便。

钳工焊接台表面平面度高达0.05/1000mm，硬度可达38-45HRC，可做作为焊接过程中产品检验平台使用。同时它具有定位准确，拆卸方便，互换性高等特点，为焊接行业提供了一种标准化的、绿色环保的、全新概念的柔性焊接工艺装备，彻底改变焊接车间传统的落后面貌，是焊工的好帮手，是焊接车间的环保的象征，为公司7S工作提供强有力保证。

The fitter welding table is a new advanced flexible process equipment that integrates welding, assembly, and inspection. It has the same interchangeability as the three-dimensional flexible combination welding fixture, and can hang various different types on the back plate of the welding tableThe functional operation tools are arranged in an orderly manner, making them clear at a glance, and can be quickly retrieved and placed. Compared with traditional ordinary flat welding platforms, they can improve work efficiency by 50% -80%, and multiple styles can be selected during useThe positioning and processing of three-dimensional standard fixture accessories is simple to operate and convenient to use.

The surface flatness of the fitter welding table can reach 0.05/1000mm, and the hardness can reach 38-45HRC. It can be used as a product inspection platform during the welding process. At the same time, it has accurate positioning, convenient disassembly, and high interchangeability The characteristics provide a standardized, green and environmentally friendly, and new concept of flexible welding process equipment for the welding industry, completely changing the traditional backward appearance of the welding workshop. It is a good helper for welders and a symbol of environmental protection in the welding workshop, providing strong guarantees for the company's 7S work.

钳工焊接台 Fitter welding table	规格尺寸Specifications and dimensions	编号 Number
1000系列series	1000x800x700+900	D28FDT-CS01
1500系列series	1500x1000x700+900	D28FDT-CS03

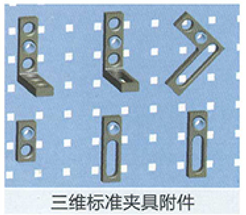
单直挂钩
Single straight hook

钳类挂钩
Clamp type hooks

圆形挂钩
Circular hook

六杆挂钩
Six pole hook

六角扳手架
Hexagonal wrench holder



三维标准夹具附件
3D standard fixture attachment