澳太机械制造有限公司
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澳太机械 AOTAI

ID MOUNTED PIPE BEVELING & FACING

内涨式管子坡口机平口机

T-PIPE BEVELING MACHINE
T型-内涨式管子坡口机

产品简介 / Overview

T型-内涨式管子坡口机，对各种规格管道端面进行坡口加工，也可对压力容器，法兰面进行切削加工，安装和操作十分简单。整机“T”字形的结构，设计巧妙，通过机械式涨紧机构在管道内壁定位安装，是一种便捷的管道坡口加工工具，更是一种移动的管端坡口小机床，适用于各种等级的碳钢、不锈钢、合金钢等金属材质和特殊的硬质工程材料坡口加工，广泛应用于石油、化工、天然气、食品、锅炉、制药、核电、场馆建设等行业的管线安装工程及管道抢修作业的现场。

The ID mounted T-pipe beveling machine can face and bevel all type of pipe end, pressure vessel and flanges. The machine adopts “T” shape structure design to realize the minimal radial working space. With the light weight, it is portable and can be used on-site working situation. The machine is applicable to end face machining of various grades of metal pipes, such as carbon steel, stainless steel and alloy steel. It is widely applied in heavy type pipe lines of Petroleum, chemical natural gas, power supply construction, boiler and nuclear power.

产品特点 / Features

1、完全的冷切割，不改变管子材质
2、管内径安装，整机“T”字形的结构
3、可加工坡口形式：“U”“V”“J”型及平口
4、还可用于管内壁修复加工以及深孔加工
5、加工范围：内径从12.5mm到330mm的不同规格管道
6、气动或电动两种驱动方式可选
7、非标产品，可按需定制

- Cold cutting, without influence the material of the pipe
- ID mounted, adopt T structure
- Varity of beveling shape: U, Single-V, J beveling,facing
- It can also be used for repairing inner wall and deep hole
- Working range:12.5-330mm
- Driven motor: Pneumatic and Electric
- Customized machine is acceptable

技术参数 / Specification

规格型号 Model		加工范围 Working range ID mm	坡口壁厚 Thickness mm	电机功率 Power kw	最高转速 Rotating rpm
电动 Electric	气动 Pneumatic				
ISY-80T	TCM-80T	Φ28-76	≤15	1.43	53
ISY-90T	TCM-90T	Φ36-90	≤15	1.43	50
ISY-28TN-1	TCM-28TN-1	Φ12.5-15	≤3	1.43	70
ISY-28TN-2	TCM-28TN-2	Φ15-20	≤5	1.43	70
ISY-28TN-3	TCM-28TN-3	Φ20-28	≤6	1.43	70
ISY-80TN	TCM-80TN	Φ26-79	≤15	1.43	70
SDC-120TN	TCM-120TN	Φ45-105	≤20	1.43	34
SDC-150TN	TCM-150TN	Φ60-170	≤20	1.43	34
SDC-350TN	TCM-350TN	Φ150-330	≤20	1.43	14

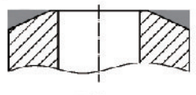
相关技术参数仅供参考，不作为最终交货标准　Above parameters just for reference only, not acceptance criteria

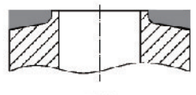
动力参数 / Power Supplies

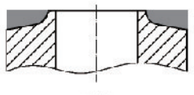
1、电动式：
能源供应方便，性能稳定，应用广泛
电源要求：220V 1PH 50/60HZ
功率：0.75KW,1.43KW
Electric:
Convenient power supply, stable performance, popular choice
Electric requirement: 220V 1PH 50/60HZ
Power: 0.75KW,1.43KW
Double motor for big model or heavy duty

2、气动式：
安全防爆，性能稳定，便于维护
气源要求：1500-2000L/min@0.63-0.8MPa
功率：1.1HP,2HP
Pneumatic:
Explosion proof, stable performance, easy to maintenance
Air requirement: 1500-2000L/min @0.63-0.8MPa
Power: 1.1HP,2HP

坡口类型 / Beveling Shape


V型坡口
V-type

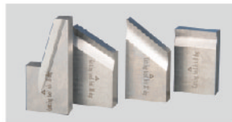

J型坡口
J-type


U型坡口
U-type

内坡口
Inside bevel

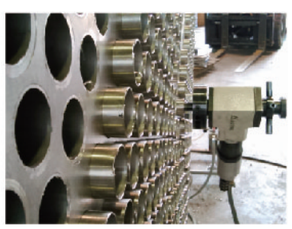
加工刀具 / Tooling

坡口角度 Bevel angle：0°，30°，37°，15°
如需加工其他角度坡口，订购前请申明，并请告知管道材质！
Other beveling shape, angle and pipe material, please declare before order.



1、一体式刀具（标配）
一体式设计，可通过磨刀，循环使用；
材质：M42和 M35
Form tool
Can be reused by grinding
Material: M42和M35
Standard supply

2、嵌入式刀具（选配）
一种规格刀片，不同角度的刀托，无须磨刀，更高性价比
刀托材质：40Cr　　刀片材质：金属陶瓷或硬质合金
Insert tool
Insert same, different angle holder
HolderMaterial: HSS ;
Insert material: Cermet or Carbide
Optional



Y -PIPE BEVELING MACHINE
Y型-内涨式管子坡口机

产品简介 / Overview

Y型-内涨式管子坡口机，对各种规格管道端面进行坡口加工，也可对压力容器，法兰面进行切削加工，安装和操作十分简单。整机“Y”字形的结构，设计巧妙，通过机械式涨紧机构在管道内壁定位安装，是一种便捷的管道坡口加工工具，更是一种移动的管端坡口小机床，适用于各种等级的碳钢、不锈钢、合金钢等金属材质和特殊的硬质工程材料坡口加工，广泛应用于石油、化工、天然气、食品、锅炉、制药、核电、场馆建设等行业的管线安装工程及管道抢修作业的现场。

The ID mounted Y-pipe beveling machine can face and bevel all type of pipe ends, pressure vessel and flanges. The machine adopts “Y” shape structure design to realize the minimal radial working space. With the light weight, it is portable and can be used on-site working situation. The machine is applicable to end face machining of various grades of metal pipes, such as carbon steel, stainless steel and alloy steel.It is widely applied in heavy type pipe lines of Petroleum, chemical natural gas, power supply construction, boiler and nuclear power.

产品特点 / Features

1、完全的冷切割，不改变管子材质
2、管内径安装，整机“Y”字形的结构
3、可加工坡口形式：“U”，“V”，“J”型坡口以及平口
4、还可用于管内壁修复加工以及深孔加工
5、加工范围：内径从60mm到820mm的不同规格管道
6、驱动方式气动或电动、数控或液压可选
7、非标产品，可按需定制

- Cold cutting, without influence the material of the pipe
- ID mounted, adopt Y structure
- Varity of beveling shape: U, Single-V, J beveling，facing
- It can also be used for repairing inner wall and deep hole
- Working range: 60-820mm
- Driven motor: Pneumatic and Electric
- Customized machine is acceptable

技术参数 / Specification

规格型号 Model		加工范围 Working range ID mm	坡口壁厚 Thickness mm	电机功率 Power kw	最高转速 Rotating rpm
电动 Electric	气动 Pneumatic				
ISY-150	TCM-150	Φ60-170	≤15	1.43	30
ISY-250	TCM-250	Φ80-240	≤15	1.43	16
ISY-351	TCM-351	Φ150-330	≤15	1.43	10
ISY-630	TCM-630	Φ300-600	≤15	1.43	8
ISY-850	TCM-850	Φ600-820	≤15	2.0	7

相关技术参数仅供参考，不作为最终交货标准 Above parameters just for reference only, not acceptance criteria

动力选择 / Power Supplies

1、电动式：
能源供应方便，性能稳定，应用广泛
电源要求：220V 1PH 50/60HZ
功率：1.43KW，2.0KW

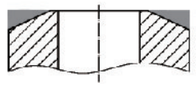
Electric:
Convenient power supply Stable Performance Popular choice
Electric requirement: 220V 1PH 50/60HZ
Power: 1.43KW,2.0KW

2、气动式：
安全防爆，性能稳定，便于维护
气源要求：1500-2000L/min@0.63-0.8Mpa
功率：2HP,3HP

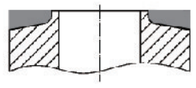
Pneumatic:
Explosion Proof,Stable Performance,Easy to maintenance
Air requirement: 1500-2000L/min @0.63-0.8Mpa
Power: 2HP,3HP

如果追求更高加工效率或加工难切削材质时，可选配伺服电机或液压马达驱动
Servo motor and hydraulic driven optional for special material and high efficient

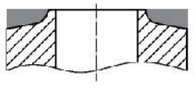
坡口类型 / Beveling Shape



V型坡口
V-type



J型坡口
J-type



U型坡口
U-type

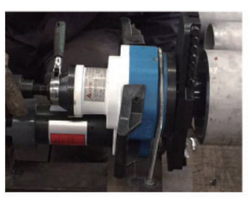
内坡口
Inside bevel

加工刀具 / Tooling

坡口角度 Bevel angle：0°，30°，37°，15°
如需加工其他角度坡口，订购前请申明，并请告知管道材质！
Other beveling shape, angle and pipe material, please declare before order.

1、一体式刀具（标配）
一体式设计，可通过磨刀，循环使用；
材质：M42和 M35
Form tool
Can be reused by grinding
Material: M42和M35
Standard supply

2、嵌入式刀具（选配）
一种规格刀片，不同角度的刀托，无须磨刀，更高性价比
刀托材质：40Cr 刀片材质：金属陶瓷或硬质合金
Insert tool
Insert same, different angle holder
HolderMaterial: HSS ;
Insert material: Cermet or Carbide
Optional



II-PIPE BEVELING MACHINE
II型-内涨式管子坡口机

产品简介 / Overview

II型-内涨式管子坡口机，采用自动走刀拖板机构设计，坡口角度可调范围内任意调节；适用于厚壁管的坡口加工，更可对焊后的凸面法兰和平面法兰进行切削坡口加工。其设计巧妙，切削量可微调，手动和自动两种进给方式自由切换，管内径安装，是一种可移动的，功能强大的管端坡口机床，适用于各种等级的碳钢、不锈钢、合金钢等金属材质和特殊的硬质工程材料坡口加工，广泛应用于石油、化工、天然气、核电、等行业的重型管程安装及管道抢修作业的现场。

II-PIPE BEVELING MACHINE is a portable ID mounted machine, which adopts automatically feed mechanism, and the bevel angel can be adjustable. The machine can be used for beveling thick pipe and prepare for welding flange faces.With the special structure designing, the tool stroke can be fine-turning. Auto-feeding and Manual - feeding can be easily and freely chosen. The machine is applicable to end face machining of various grades of metal pipes, such as carbon steel, stainless steel and alloy steel.It is widely applied in heavy type pipe lines of Petroleum, chemical natural gas, power supply construction, boiler and nuclear power.

产品特点 / Features

1、切削量可微调
2、坡口角度可调：0°-37°
3、完全的冷切割，不改变管子材质
4、手动和自动进刀两种进给方式，自由切换
5、可加工坡口形式：“U”，“V”，“J”型以及复合型
6、还可用于法兰面加工
7、加工范围：内径从80mm到820mm的不同规格管道
8、驱动方式气动或电动，数控和液压驱动可选

- Tool stoke can be fine-turning
- Beveling angel adjustable: 0-30deg
- Cold cutting, without influence the material of the pipe
- Manual feeding and Auto feeding can be easily and freely exchanged
- Varity of beveling shape: U, V, J bevel and compound bevel
- 4 model, range for pipe ID: 80mm-820mm
- Driven motor: Pneumatic and Electric, Servo motor and Hydraulic optional

技术参数 / Specification

规格型号 Model		加工范围 Working range ID mm	坡口壁厚 Thickness mm	额定功率 Power kw	刀盘转速 rpm Rotating speed rpm
电动 Electric	气动 Pneumatic				
ISY-250-II	TCM-250-II	Φ80-240	≤75	1.4	16
ISY-351-II	TCM-351-II	Φ150-330	≤75	1.4	10
ISY-630-II	TCM-630-II	Φ300-600	≤75	1.4	8
ISY-850-II	TCM-850-II	Φ600-820	≤75	2.0	7

相关技术参数仅供参考，不作为最终交货标准　Above parameters just for reference only, not acceptance criteria

动力选择 / Power Supplies

1、电动式：
能源供应方便，性能稳定，应用广泛
电源要求：220V 1PH 50/60HZ
功率：1.43KW，2.0KW

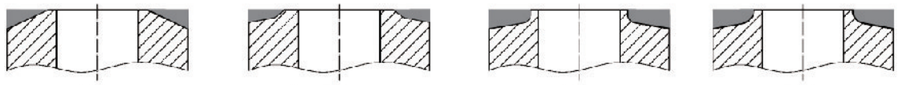
Electric:
Convenient power supply Stable Performance Popular choice
Electric requirement: 220V 1PH 50/60HZ
Power: 1.43KW,2.0KW

2、气动式：
安全防爆，性能稳定，便于维护
气源要求：1500-2000L/min@0.63-0.8Mpa
功率：2HP,3HP

Pneumatic:
Explosion Proof Stable Performance Easy to maintenance
Air requirement: 1500-2000L/min @0.63-0.8Mpa
Power: 2HP,3HP

如果追求更高加工效率或加工难切削材质时，可选配伺服电机或液压马达驱动
Servo motor and hydraulic driven optional for special material and high efficient

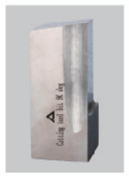
坡口类型 / Beveling Shape



V型坡口 V-type　复合型坡口 Compound bevel　J型坡口 J-type　U型坡口 U-type

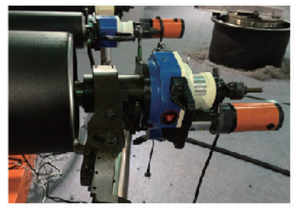
加工刀具 / Tooling

标配刀具：三把直刀（坡口角度通过刀架调整）
可选购坡口刀：0°，30°，37°，15°
如需加工其他角度坡口，订购前请申明，并请告知管道材质！
Standard tool: 3PCS straight tool, beveling angle adjusted by tool post
Other beveling shape, angle and pipe material, please declare before order



标配 Standard

选配 Optional



HEAVY DUTY PIPE BEVELING MACHINE
内涨式重载管子坡口机

产品简介 / Overview

内涨式重载管子坡口机，本系列产品是针对大管径，厚壁管道的管端坡口以及法兰面加工而设计制造。是一台车间和现场都适用的移动式车床。采用自动走刀拖板机构设计，坡口角度可调范围内任意调节，单刀切削量大，坡口速度快；适用于厚壁管的坡口加工，更可对焊后的凸面法兰和平面法兰进行切削坡口加工。适用于各种等级的碳钢、不锈钢、合金钢等金属材质和特殊的硬质工程材料坡口加工，广泛应用于石油、化工、天然气、核电、等行业的重型管程安装及管道抢修作业的现场。

AOTAI Heavy duty pipe beveling machine is a portable ID mounted machine, which adopts automatically feed mechanism, and the bevel angel can be adjustable. The machine can be used for beveling thick pipe and prepare for welding flange faces. With the special structure designing, the tool stroke can be fine-turning. Auto-feeding and Manual -feeding can be easily and freely chosen. The machine is applicable to end face machining of various grades of metal pipes, such as carbon steel, stainless steel and alloy steel.It is widely applied in heavy type pipe lines of Petroleum, chemical natural gas, power supply construction, boiler and nuclear power.

产品特点 / Features

1、切削量可微调
2、坡口角度可调：0°-37°
3、完全的冷切割，不改变管子材质
4、自动进刀，无须手动调节
5、可加工坡口形式：“U”，“V”，“J”型以及复合型
6、加工范围：内径800mm到2050mm的不同规格管道
7、数控式或液压式两种驱动方式可选

- Tool stoke can be fine-turning
- Beveling angel adjustable: 0-30deg
- Cold cutting, without influence the material of the pipe
- Auto feeding can be easily and freely exchanged
- Beveling shape: U, V, J ,and compound beveling
- 5models, Working range for pipe ID800-2050mm
- Driven supplies: Servo motor and Hydraulic optional

技术参数 / Specification

规格型号 Model		加工范围 Working range ID mm	坡口壁厚 Thickness mm	额定功率 Power kw	刀盘转速 Rotating speed rpm
数控式 NC	液压式 Hydraulic				
SDD-1050	HDD-1050	Φ800-1050	≤120	3.0	9
SDD-1300	HDD-1300	Φ1050-1300	≤120	3.0	7
SDD-1500	HDD-1500	Φ1300-1500	≤120	3.0	6
SDD-1800	HDD-1800	Φ1500-1800	≤120	5.5	5
SDD-2300	HDD-2300	Φ1800-2050	≤120	5.5	5

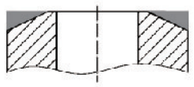
相关技术参数仅供参考，不作为最终交货标准 Above parameters just for reference only, not acceptance criteria

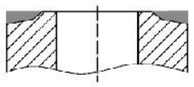
驱动选择 / Power Supplies

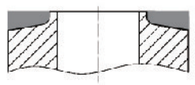
1、数控式：：
动力强劲，噪音低，性能稳定，高承载
电源要求：220V 1PH 50/60Hz 380V 3PH 50/60Hz
功率：3.0KW或5.5KW
大型号选配双驱动
1、NC:
Powerful drive, High efficiency Low noise ,Stable Performance
Electric requirement: 220V 1PH 50/60Hz; 380V 3PH 50/60Hz
Power: 3.0KW or 5.5KW
Double motor for big model or heavy duty

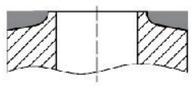
2、液压式:
安全防爆，便于维护,高承载，可连续作业
液压要求：28-50L/min @13Mpa；
适配电源：380V 3PH 50/60Hz
2、Hydraulic:
Powerful drive, High efficiency Stable Performance, Low noise, Anti-explosion
Hydraulic requirement: 28-50L/min @13Mpa
Electric requirement: 380V 3PH 50/60Hz

坡口类型 / Beveling Shape


V型坡口
V-type


复合型坡口
Compound bevel


J型坡口
J-type

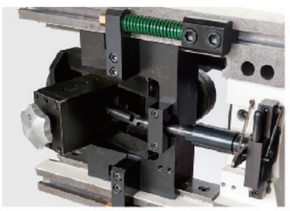

U型坡口
U-type

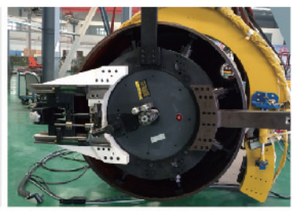
加工刀具 / Tooling

标配刀具：三把直刀（坡口角度通过刀架调整）
可选购坡口刀：0°，30°，37°，15°
如需加工其他角度坡口，订购前请申明，并请告知管道材质！
Standard tool: 3PCS straight tool, beveling angle adjusted by tool post
Other beveling shape, angle and pipe material, please declare before order

标配 Standard

选配 Optional





ATCM PIPE FACING MACHINE
ATCM气动快速平口机

产品简介 / Overview

ATCM系列气动快速平口机，针对小管道的平口和坡口批量快速加工而设计，采用管内径定位安装，气动快速涨紧，气动驱动，自动进刀或手动进刀的加工方式。解决管板焊，以及管桥，管墙焊接过程中，因管口参差不齐，影响焊接品质的难题，既可刮去管口多余长度，快速平口和坡口，又可清除焊缝。其结构紧凑，重量轻便，操作简便，加工效率高，广泛适用于各种金属管材的端面批量加工，尤其适用于换热器，水冷壁，火电厂，制药，酿造，制冷等行业的平口和坡口加工。

ATCM pneumatic fast beveling machine is designed for bulk small dia. pipes. The machine works by the means of ID mounted, Pneumatic clamping and driving. Manual feeding and Auto feeding both are optional. The machine is used to solve to face, bevel and remove the ending of all welding pipes. With the feature of light weight, easy operation, high efficiency, the machine is widely used for many lines of bulk pipe facing and beveling, eg. heat exchanger, water wall,power plant,pharmacy,brewing, refrigeration and so on.

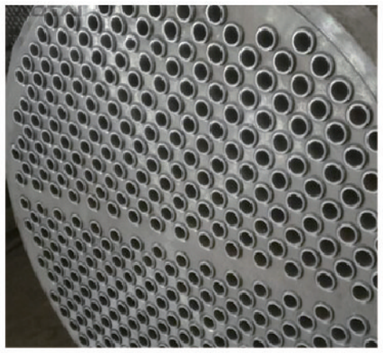
产品特点 / Features

1、完全的冷切割，不改变管子材质
2、管内径安装，气动快速定位涨紧
3、手动或自动进给，快速进刀和退刀，一道平口仅需几秒
4、既可刮去管口多余长度，快速平口和坡口，又可清除焊缝
5、加工范围：管内径从12mm-38mm，其他规格管道，可定制
6、整机小巧轻便，移动便捷，能在各种工位和条件中使用
7、适用于各种等级的碳钢、不锈钢、合金钢等金属管材的端面加工

- Cold cutting, without influence the material of the pipes
- ID mounted, fasting positioning clamping
- Manual and auto feeding is optional
- Fast feeding and retracting ensure few minutes to facing.
- Remove extra length of the pipe and weld seam, fast face and bevel pipes
- Working range: ID 12mm-38mm. Customized requirement is acceptable
- Applicable to end facing of various grades of metal pipes CS,SS and alloy steel

技术参数 / Specification

型号 Model	ATCM-24	ATCM-24A	ATCM-48	ATCM-48A
进刀方式 Feeding	手动 Manual	自动 Auto	手动 Manual	自动 Auto
管内径范围 Working range	Φ12.4-24mm	Φ12.4-24mm	Φ20-48mm	Φ20-48mm
进刀行程 Feeding stoke	20mm	20mm	20mm	20mm
最大加工壁厚 Max thickness	5mm	5mm	5mm	5mm
空载转速 No-load speed	300rpm	300rpm	300rpm	300rpm
扭矩 Torque	50Nm	50Nm	50Nm	50Nm
功率 Power	1.3HP	1.3HP	1.3HP	1.3HP
耗气量 Air consuming	0.7m³/min	0.7m³/min	0.7m³/min	0.7m³/min
机身最大宽度 Body Max width	59mm	59mm	59mm	59mm
机身重量 Weight	7KG	12KG	8KG	13KG

刀具 / Tooling

加工其他角度坡口，加工管子的材质，请订购前申明！ Other bevel angles and pipe material, please declare before order