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AOTAI MACHINE MANUFACTURING CO.,LTD.

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# STATIONARY PIPE MACHINE

## 管道关键设备

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com





# CNP HIGH SPEED PIPE CUTTING AND BEVELING MACHINE

## CNP数控式高速管道切割坡口一体机

### 产品简介 / Overview

CNP系列数控式高速管道切割坡口一体机，是针对管道批量预制加工研发的切割坡口一体机，是一台高端的高效型管道切割坡口数控加工中心。采用澳太自主研发的数控系统，伺服电机驱动，双液压夹紧系统，自动对中，可对各种等级的碳钢、不锈钢、合金钢管进行定长切割，管端坡口等管道预制加工。其加工速度快，精度高，坡口质量好，易于操控，适用于石油、化工、天然气、核电等行业管道切割加工。可选配管道自动定长系统，也可与物流系统组合，便于形成高效的流水线作业，是各种管道预制加工的关键设备。

AOTAI CNP High speed pipe cutting and beveling machine is a kind of efficient pipe cutting and beveling prefabrication CNC machine. designed to cut, bevel, single point on the pipe with high speed. considerable heavy wall and for any type of material. Adopt servo motor drive, with AOTAI CNC system, double hydraulic clamping system, self-centering system. and pipe length setting system and pipe conveying system are optional. This series machine advantage with high speed, high precision, high quality of cutting, easy to control. it is the key equipment for all kinds of pipe prefabrication. suitable for cutting and processing pipe of oil, chemical, natural gas, nuclear power and other industry.



### 产品特点 / Features

- 1、完全的冷切割方式，不改变管子材质
- 2、高速切割加工，加工类型和切削速度由程序控制
- 3、中空式双向液压夹紧系统，自动对中，自动夹紧
- 4、内置循环水冷系统，提高刀具和机床的使用寿命
- 5、首次对刀，后续可自动记忆刀具位置，轻松设置刀补
- 6、进刀系统采用独立伺服电机驱动，实现联动或独立进退刀
- 7、同时切割和坡口，也可单切断，单坡口，或切断同时双面坡口
- 8、可加工的切割坡口形式：U型，V型，J型以及双V型和复合型
- 9、独创数控系统，填充式人机对话，参数预设，让一切变得更简单
- 10、自带升降系统，完美适应不同直径的管道在同一物流线上使用

- 4 models are available in pipe OD:50-914mm
- Cold cutting, don't influence the pipe's material
- High speed cutting, feeding control by program
- Machine up/down design, and control by program
- Exclusive CNC system, make everything become easier.
- Built-in water-cooling systems, increasing the life of machine and tools.
- Both front and back hydraulic clamping system, self-centering, precision solid.
- Variety of beveling shape: "U", "V", "J", double "V", compound bevels.
- Cutting and beveling, and can be used for cutting, beveling, double beveling.
- Independent servo motor driven, can realize feed and retract with correlation, differential, independent.

### 技术参数 / Specification

型号 Model	加工范围 Working Range	加工壁厚 Wall Thickness		刀盘转速 Rotating rpm	功率 kw Motor Power			
	OD mm	单刀 Single mm	多刀 Multi mm		主轴 Cutting	夹紧 Clamping	升降 Up/down	进刀 Feeding
CNP-320	50-325	4-25	50	0-50	5.5	1.5	0.55	2.0
CNP-450	130-450	5-25	50	0-42	7.5	1.5	0.55	2.0
CNP-610	323-610	5-25	50	0-35	11	1.5	1.5	2.0
CNP-914	610-914	6-25	50	0-25	11	1.5	2.0	3.0

非标参数可按用户要求设计制造 Above parameters just for reference only, not acceptance criteria

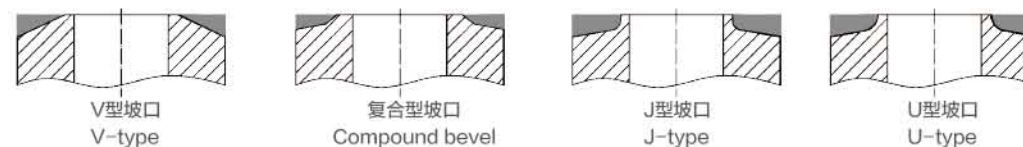
电源要求: 380V,50-60Hz,3P  
刀塔数量: 2刀位或4刀位  
Power requirement: 380V,50-60Hz,3P  
Tool post quantity: 2 or 4

升降行程: 200mm  
坡口角度误差: ±0.5  
Up/down travel: 200mm  
Angle deviation: ±0.5

最短下料尺寸: 300mm  
垂直度误差: ±0.5mm/300mm (OD)  
Pipe length limit: 300mm  
Vertical deviation: ±0.5mm @300mm (OD)



### 坡口类型 / Beveling Shape



坡口类型及坡口角度，以及加工管道材质，请订购前申明 Other beveling shape, angle and pipe material, please declare before order

### 刀具 / Tooling

为了满足加工现场的各种要求，我们有丰富的刀具种类可供选择，更可以按照客户需求订制不同角度，不同尺寸的刀具。

Options of form type and insert type tools  
Available for cutting all thickness and material of pipe and beveling at any required angle.



成型刀具

材质: M42和 M35

种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀, 内坡口刀  
角度: 0度, 30度, 37.5度 (标配); 双面30度, 37.5+10度 (选配)

Form Type

Material: M42 or M35

Kinds: Cut off, beveling, Double beveling, Compound beveling

Angle: 0°, 30°, 37.5°, double 30° /37.5°, 37.5° +10°



嵌入式刀具

刀柄材质: 40Cr

刀片材质: 硬质合金

种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀  
角度: 0度, 30度, 37.5度, 双面30度, 37.5+10度

Insert Type

Material: Tool holder:40Cr ; Insert: CSS or Carbide

Kinds: Cut off, beveling, Double beveling, Compound beveling

Angle: 0°, 30°, 37.5°, double 30° /37.5°, 37.5° +10°

### 物流系统 / Option Pipe Conveyer

按需定制配套物流系统，一切从满足用户需求出发。自动进给或手动进给可选，辊架长度和尺寸大小按需定制。

Customizable size and option the automatic or manual feeding.

Optional pipe conveyer and automatic length setting systems, be formulated with highly efficient logistics system, and form pipe cutting and beveling prefabricated production line



管道进料输送系统  
Front pipe conveyer



管道出料输送系统  
Back pipe conveyer



管道定长输送系统  
Length setting system



管道换向输送系统  
Exchange system



# CND STATIONARY PIPE CUTTING AND BEVELING MACHINE

## CND数控式管子切割坡口机

### 产品简介 / Overview

CND系列数控式管道切割坡口机，针对管道批量预制加工研发的切割坡口一体机，是一台实用的实用型管道切割坡口加工数控机床。采用大功率变频电机驱动，PLC数控系统控制，电动夹紧，自动对中，自动进退刀，主机可升降。适用于碳钢、不锈钢、合金钢等多种材质管子的U、V、J、Y等多种坡口形式的加工。其加工速度快，精度高，坡口质量好，操作简单，可选配管道定长，管道输送等物流系统，形成管道预制加工生产线。

CND Stationary pipe cutting and beveling machine is a practical and durable pipe cutting beveling machine. It was developed cutting and beveling for pipe prefabrication. Adopt variable frequency motor drive, electric clamping system, self-centering system, automatic feeding, electric up-down system. It is suitable for the processing of U, V, J, Y and beveling shape of carbon steel, stainless steel and alloy steel pipes. Pipe length setting system and pipe conveying system are optional. Advantage with high speed, high precision, high quality of cutting, easy to control. It is the key equipment for all kinds of pipe prefabrication. Suitable for cutting and processing pipe of oil, chemical, natural gas, nuclear power and other industry.



### 产品特点 / Features

- 1、完全的冷切割方式，不改变管子材质
- 2、PLC控制系统，触屏操控，操作更简单、便捷；
- 3、抱紧式电动夹紧系统，自动对中，自动夹紧；
- 4、伺服进给，自动进退刀；
- 5、内置循环水冷系统，提高刀具和机床的使用寿命；
- 6、可加工的切割坡口形式：U型，V型，J型以及双V型和复合型；
- 7、一次装夹，同时切割和坡口，也可单切断，单坡口，或切断同时双面坡口
- 8、自带升降系统，完美适应不同直径的管道在同一物流线上使用

- 5 models are available in pipe OD:30-914mm
- Cold cutting, don't influence the pipe's material
- PLC control system, Touch-screen controller
- Electric clamping system, self-centering, precision solid
- Automatic feeding by program
- Water cooling systems, increasing the life of machine and tools.
- Variety of beveling shape: "U", "V", "J", double "V", compound bevels.
- Cutting and beveling, and can be used for cutting, beveling, double beveling.
- Machine up/down design, perfectly adapted to different diameter in the same pipe conveyer

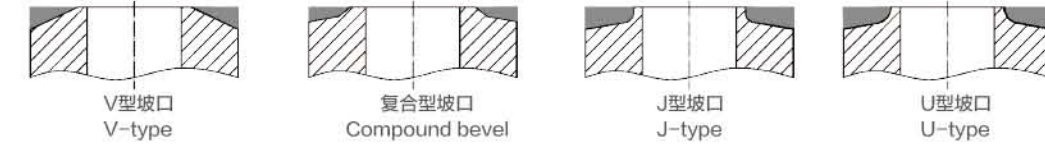
### 技术参数 / Specification

型号 Model	加工范围 Range	加工壁厚 Thickness	刀盘转速 Rotating	功率 kw Motor Power			
	OD mm	mm	rpm	主轴 Cutting	夹紧 Clamping	升降 Up/down	进刀 Feeding
CND-168	30-168	3-30	0-60	3.0	0.75	0.75	0.75
CND-325	50-325	5-30	0-45	4.0	0.75	0.75	0.75
CND-508	273-508	6-30	0-30	7.5	0.75	1.5	0.75
CND-610	325-610	6-30	0-20	11	0.75	1.5	0.75
CND-914	610-914	6-30	0-15	11	0.75	1.5	0.75

非标参数可按用户要求设计制造 Above parameters just for reference only, not acceptance criteria

电源要求: 380V,50-60Hz,3P 升降行程: 300mm Power requirement: 380V,50-60Hz,3P Up/down travel:300mm  
 最短下料尺寸: 200mm 进刀方式: 自动进刀 Pipe length limit:200mm Tool post quantity: 2 or 4  
 退刀方式: 自动退刀 刀位数量: 2刀位或4刀位 Angle deviation: ±0.5 Tool feeding: Automatic by program  
 坡口角度误差: ±0.5 Tool retract: Automatic by program

### 坡口类型 / Beveling Shape



坡口类型及坡口角度，以及加工管道材质，请订购前申明 Other beveling shape, angle and pipe material, please declare before order

### 刀具 / Tooling

为了满足加工现场的各种要求，我们有丰富的刀具种类可供选择，更可以按照客户需求订制不同角度，不同尺寸的刀具。

Options of form type and insert type tools  
 Available for cutting all thickness and material of pipe and beveling at any required angle.



成型刀具

材质: M42和 M35  
 种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀, 内坡口刀  
 角度: 0度, 30度, 37.5度 (标配); 双面30度, 37.5+10度 (选配)

#### Form Type

Material: M42 or M35  
 Kinds: Cut off, beveling, Double beveling, Compound beveling  
 Angle: 0°, 30°, 37.5°, double 30°/37.5°, 37.5°+10°



嵌入式刀具

刀柄材质: 40Cr 刀片材质: 硬质合金  
 种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀  
 角度: 0度, 30度, 37.5度, 双面30度, 37.5+10度

#### Insert Type

Material: Tool holder:40Cr; Insert: CSS or Carbide  
 Kinds: Cut off, beveling, Double beveling, Compound beveling  
 Angle: 0°, 30°, 37.5°, double 30°/37.5°, 37.5°+10°

### 物流系统 / Option Pipe Conveyor

按需定制配套物流系统，一切从满足用户需求出发。自动进给或手动进给可选，辊架长度和尺寸大小按需定制。

Customizable size and option the automatic or manual feeding.

Optional pipe conveyer and automatic length setting systems, be formulated with highly efficient logistics system, and form pipe cutting and beveling prefabricated production line



管道进料输送系统  
Front pipe conveyer



管道出料输送系统  
Back pipe conveyer



管道定长输送系统  
Length setting system



管道换向输送系统  
Exchange system



# OCM STATIONARY PIPE CUTTING AND BEVELING MACHINE

## OCM固定式管子切割坡口机

### 产品简介 / Overview

OCM系列固定式管道切割坡口机，针对管道批量预制加工研发的切割坡口一体机，是一台实用的耐用型管道切割坡口加工机床。采用大功率变频电机驱动，电动夹紧系统，自动对中，主机可升降。适用于碳钢、不锈钢、合金钢等多种材质管子的U、V、J、Y等多种坡口形式的加工。其加工速度快，精度高，坡口质量好，操作简单，可选配管道定长，管道输送等物流系统，形成管道预制加工生产线。

AOTAI OCM Stationary pipe cutting and beveling machine is a practical and durable pipe cutting beveling machine. It was developed cutting and beveling for pipe prefabrication. Adopt variable frequency motor drive, electric clamping system, self-centering system, electric up-down system. It is suitable for the processing of U, V, J, Y and beveling shape of carbon steel, stainless steel and alloy steel pipes. Pipe length setting system and pipe conveying system are optional. Advantage with high speed, high precision, high quality of cutting, easy to control. It is the key equipment for all kinds of pipe prefabrication. Suitable for cutting and processing pipe of oil, chemical, natural gas, nuclear power and other industry.



### 产品特点 / Features

- 1、完全的冷切割方式，不改变管子材质；
- 2、简易的机械按钮式操作，操作更简单、便捷；
- 3、抱紧式电动夹紧系统，自动对中，自动夹紧；
- 4、机械式自动进刀，手动退刀，操作简便；
- 5、内置循环水冷系统，提高刀具和机床的使用寿命；
- 6、可加工的切割坡口形式：U型，V型，J型以及双V型和复合型；
- 7、一次装夹，同时切割和坡口，也可单切断，单坡口，或切断同时双面坡口；
- 8、自带升降系统，完美适应不同直径的管道在同一物流线上使用；

- 5 models are available in pipe OD:30-914mm
- Cold cutting, don't influence the pipe's material
- Simple button-type controller, easy operation
- Electric clamping system, self-centering, precision solid
- Automatic feed and manual feed can be optional.
- Built-in water cooling systems, increasing the life of machine and tools.
- Variety of beveling shape: "U", "V", "J", double "V", compound bevels.
- Cutting and beveling, and can be used for cutting, beveling, double beveling.
- Machine up/down design, perfectly adapted to different diameter in the same pipe conveyer

### 技术参数 / Specification

型号 Model	加工范围 Range	加工壁厚 Thickness	刀盘转速 Rotating	功率 kw Motor Power			
	OD mm	mm	rpm	主轴 Cutting	夹紧 Clamping	升降 Up/down	进刀 Feeding
OCM-168	30-168	3-20	0-50	2.2	0.75	0.75	0.75
OCM-325	50-325	5-25	0-30	3.0	0.75	0.75	0.75
OCM-508	273-508	6-30	0-20	5.5	0.75	1.5	0.75
OCM-610	325-610	6-30	0-15	7.5	0.75	1.5	0.75
OCM-914	610-914	6-30	0-10	7.5	0.75	1.5	0.75

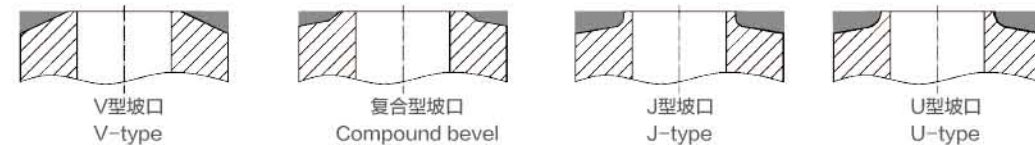
相关技术参数仅供参考，不作为最终交货标准 Above parameters just for reference only, not acceptance criteria

电源要求: 380V,50-60Hz,3P 升降行程: 300mm  
 进刀方式: 机械式自动进刀; 最短下料尺寸: 200mm  
 刀位数量: 2刀位或4刀位; 退刀方式: 手动退刀  
 垂直度误差: ±0.5mm/300mm (OD) 坡口角度误差: ±0.5

Power requirement: 380V,50-60Hz,3P Up/down travel:300mm  
 Tool post quantity.: 2 or 4 Pipe length limit:200mm  
 Tool Feeding: mechanical automatic Angle deviation: ±0.5  
 Vertical deviation: ±0.5mm @300mm (OD) Tool retract: Manual



### 坡口类型 / Beveling Shape



坡口类型及坡口角度，以及加工管道材质，请订购前申明 Other beveling shape, angle and pipe material, please declare before order

### 刀具 / Tooling

为了满足加工现场的各种要求，我们有丰富的刀具种类可供选择，更可以按照客户需求订制不同角度，不同尺寸的刀具。

Options of form type and insert type tools  
 Available for cutting all thickness and material of pipe and beveling at any required angle.



成型刀具

材质: M42和 M35  
 种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀, 内坡口刀  
 角度: 0度, 30度, 37.5度 (标配); 双面30度, 37.5+10度 (选配)  
 Form Type  
 Material: M42 or M35  
 Kinds: Cut off, beveling, Double beveling, Compound beveling  
 Angle: 0°, 30°, 37.5°, double 30° /37.5°, 37.5° +10°



嵌入式刀具

刀柄材质: 40Cr 刀片材质: 硬质合金  
 种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀  
 角度: 0度, 30度, 37.5度, 双面30度, 37.5+10度  
 Insert Type  
 Material: Tool holder:40Cr; Insert: CSS or Carbide  
 Kinds: Cut off, beveling, Double beveling, Compound beveling  
 Angle: 0°, 30°, 37.5°, double 30° /37.5°, 37.5° +10°

### 物流系统 / Option Pipe Conveyer

按需定制配套物流系统，一切从满足用户需求出发。自动进给或手动进给可选，辊架长度和尺寸大小按需定制。

Customizable size and option the automatic or manual feeding.  
 Optional pipe conveyer and automatic length setting systems, be formulated with highly efficient logistics system, and form pipe cutting and beveling prefabricated production line



管道进料输送系统  
Front pipe conveyer

管道出料输送系统  
Back pipe conveyer

管道定长输送系统  
Length setting system

管道换向输送系统  
Exchange system



### 产品简介 / Overview

OSD/KSD可移动台式管道切割坡口机，针对中小批量管道预制加工研发的切割坡口一体机，是一台可移动式经济型管道切割坡口加工机床。既可以用于车间管道预制加工，也便于野外施工现场的管道切断坡口加工。主机可以固定在现场已有的操作台上，也可选配我司小车式可移动操作台，其设计新颖，功能强大，操作简便，应用十分广泛。是便携式和固定式管道切割坡口设备的功能和应用的完美结合，使得快速安装和快速高效切割而且可重复切割成为可能，选配其他附件，还可以变身为切管机或管道焊接设备。

OSD/KSD Portable-bench pipe cutting and beveling machine is a portable and bench machine. It was developed cutting and beveling for pipe prefabrication. The main machine can be fixed on the bench in workshop, and it also can be used to field cutting and beveling with option our car type bench. Adopt variable frequency motor or servo motor drive, self-centering clamping system. It is suitable for the processing of U, V, J, Y and beveling shape of carbon steel, stainless steel and alloy steel pipes. New design, easy to control, the cutting and beveling system can be changed to orbital cutting system or welding system. it will become a orbital pipe cutting machine or pipe welding machine.



### 产品特点 / Features

- 1、完全的冷切割方式，不改变管子材质
- 2、一次装夹，切割和坡口同时进行
- 3、多点同步夹紧，管道安装更高效
- 4、自动定心机械式夹紧系统，安装精度更高
- 5、自动进刀，转速可调
- 6、加工范围更广：管子直径从20mm到720mm，均可选型加工
- 7、可加工的切割坡口形式：U型，V型，J型以及双V型和复合型
- 8、一体式铸造机体，设备刚性和强度更优，使得高速切削成为可能
- 9、主机体与锯片式切管机适配，更换刀架和动力头即可变身为一台高效的切管机
- 10、选配管管焊枪及其他附件，可以形成一套全位置自动管管焊设备
- 11、KSD数控式选配台达伺服电机，采用PLC控制系统操作，切割参数可预设

- 8 models are available in pipe OD:20-720mm
- Cold cutting, don't influence the pipe's material
- Self-centering clamping with multi point jaws
- Automatic feed and manual feed can be optioned
- one-piece body, makes it possible to high speed cutting
- Varity of beveling shape: "U", "V", "J", double "V", compound bevels
- Cutting and beveling, and can be used for cutting, beveling, double beveling
- Change the cutting and beveling system can be change to orbital pipe cutting system
- Change the cutting and beveling system can be change to pipe welding system
- KSD model driven by Servo motor, PLC control system, and with touch screen controller

### 技术参数 / Specification

型号规格 Model		加工范围 OD mm Working Range	坡口壁厚 mm	刀盘转速 rpm	电机功率 kw
电动式 Electric	数控式 NC				
OSD-120	KSD-120	Φ20-120	≤20	0-33	1.43
OSD-170	KSD-170	Φ35-170	≤30	0-23	1.43
OSD-220	KSD-220	Φ76-220	≤30	0-18	1.43
OSD-320	KSD-320	Φ168-320	≤30	0-14	1.43
OSD-420	KSD-420	Φ273-420	≤30	0-14	1.43
OSD-520	KSD-520	Φ377-520	≤30	0-13	2.0
OSD-620	KSD-620	Φ457-620	≤30	0-13	2.0
OSD-720	KSD-720	Φ559-720	≤30	0-13	2.0

非标参数可按用户要求设计制造 Above parameters just for reference only, not acceptance criteria

### 动力参数

1、普通电动式:

电源: 220V,50-60Hz,1P

功率: 1.43KW, 2.0KW

OSD Model:

Power requirement: 220V,50-60Hz,1P

Power: 1.43KW or 2.0KW

2、数控式:

电源要求: 220V,50-60Hz,1P

功率: 2.0KW

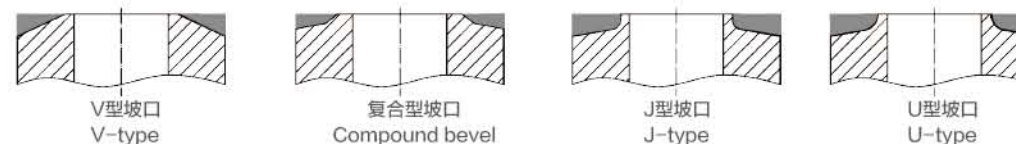
KSD model: Servo motor, NC control

Power requirement: 220V,50-60Hz,1P

Power: 2.0KW



### 坡口类型 / Beveling Shape



坡口类型及坡口角度，以及加工管道材质，请订购前申明 Other beveling shape, angle and pipe material, please declare before order

### 刀具 / Tooling

为了满足加工现场的各种要求，我们有丰富的刀具种类可供选择，更可以按照客户需求订制不同角度，不同尺寸的刀具。

Options of form type and insert type tools

Available for cutting all thickness and material of pipe and beveling at any required angle.



成型刀具

材质: M42和 M35

种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀, 内坡口刀

角度: 0度, 30度, 37.5度 (标配); 双面30度, 37.5+10度 (选配)

Form Type

Material: M42 or M35

Kinds: Cut off, beveling, Double beveling, Compound beveling

Angle: 0°, 30°, 37.5°, double 30° /37.5°, 37.5° +10°



嵌入式刀具

刀柄材质: 40Cr

刀片材质: 硬质合金

种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀

角度: 0度, 30度, 37.5度, 双面30度, 37.5+10度

Insert Type

Material: Tool holder:40Cr; Insert: CSS or Carbide

Kinds: Cut off, beveling, Double beveling, Compound beveling

Angle: 0°, 30°, 37.5°, double 30° /37.5°, 37.5° +10°

### 物流系统 / Option Pipe Conveyor

按需定制配套物流系统，一切从满足用户需求出发。自动进给或手动进给可选，辊架长度和尺寸大小按需定制。

Customizable size and option the automatic or manual feeding.

Optional pipe conveyor and automatic length setting systems, be formulated with

highly efficient logistics system, and form pipe cutting and beveling prefabricated production line



管道进料输送系统  
Front pipe conveyer



管道出料输送系统  
Back pipe conveyer



管道定长输送系统  
Length setting system



管道换向输送系统  
Exchange system



# OCD HIGH SPEED PIPE BEVELING MACHINE

## OCD固定式高速管子端面坡口机

### 产品简介 / Overview

本系列产品为固定式高速管子端面坡口机，是对管子端面进行快速坡口加工的一种专用机床。自动对中式液压夹紧，可编程式自动进刀，可选配电动升降装置，以适应不同直径规格的管道在同一管道滚架上使用，本产品适用于碳钢、不锈钢、合金钢等多种材质钢管的多种坡口形式的加工，坡口质量好，工作效率高，操作简单，适用于石油、化工、天然气、核电等行业管道批量快速加工，是管道预制加工的关键设备。

This series of beveling machine tools were developed aims at large quantities of pipe end beveling processing, It is new equipment of pipe prefabrication. Bevel pipe fast, auto-center hydraulic clamping system, can match main machine auto-up/down system to suit different diameter pipes to use, suitable for bevel processing of all kinds of carbon steels, stainless steels, alloy steels, etc. Can bevel different types of shape according to customer's requirement: U, V, J, Y, X, etc. excellent quality of beveling, efficient working, easy to operate.



### 产品特点 / Features

- 1、完全的冷切割方式，不改变管子材质；
- 2、高速切割，完成一道坡口只需20秒；
- 3、成型坡口刀，让坡口加工更简单，更精准；
- 4、4刀位设计，可适应更多加工工况；
- 5、5个型号，加工范围：外径25.4-1220mm
- 6、超高效率，适合大批量管道坡口加工；
- 7、液压式自动对中夹紧，双V型超宽环抱夹爪，夹紧更牢固；
- 8、伺服自动进退刀，超大进刀行程，程序任意控制，加工更精准；
- 9、主机自带升降系统，完美适应不同规格的管道在同一物流线上使用；
- 10、触屏操作，参数预设，一键自动运行，操作简单；
- 11、适用材质：碳钢，合金钢，不锈钢，低温钢，硬质塑料等。

- High speed pipe beveling machine
- Suitable for large quantities of pipe beveling process
- 4 tool level design, used for more processing conditions
- Operate in touch screen, one button to move automatically, operate easily.
- Can match pipe positioning system to achieve pipeline beveling process.
- Machine up/down design, perfectly adapted to different diameter in the same pipe conveyer
- Hydraulic clamping, double V clamping block, clamping at same time by hydraulic cylinder
- Clamping force: adjustable from 0.5 ton to 20 ton, suitable for pipe with different wall thickness
- 5 models are available in pipe OD:25.4-1220mm

### 技术参数 / Specification

型号 Model	加工范围 Range	切削壁厚 Thickness	最短管长 Mix.length	转速 Rotating	功率 Motor Power kw			
	OD mm	mm	mm		主轴 Cutting	夹紧 Clamping	进刀 Feeding	升降 Up/down
OCD-170	25.4-168	4-20	250	200	5.5	0.5	0.75	1.1
OCD-325	50-325	5-20	250	140	5.5	0.5	0.75	1.1
OCD-630	219-630	6-25	400	90	7.5	2.2	0.75	-
OCD-830	323-830	8-25	500	70	11	2.2	2.0	-
OCD-1220	508-1220	10-30	700	60	2.2	2.2	2.0	-

非标参数可按用户要求设计制造 Above parameters just for reference only, not acceptance criteria

电源要求: 380V,50-60Hz,3P  
刀位数量: 4刀位  
Power requirement: 380V,50-60Hz,3P  
Tool post quantity: 4

升降行程: 300mm  
坡口角度误差: ±0.5  
Up/down travel: 300mm  
Angle deviation: ±0.5

进刀行程: 150-500mm  
坡口表面精度: ±0.01  
Feeding travel: 150-500mm  
Vertical deviation: ±0.5mm @300mm (OD)

进给速度: 0-1000rpm  
垂直度: ±0.5/300mm(OD)  
Feeding: 0-1000mm/min

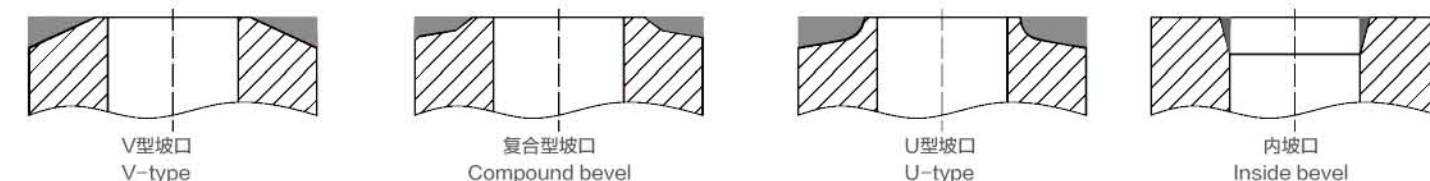
### 坡口效率 / Efficiency:

管径及壁厚 材质 Material	51*4.5MM	63*6MM	89*8MM	114*10MM	159*10MM
碳钢 Carbon steel	8S	9S	16S	20S	36S
不锈钢 Stainless steel	8S	9S	18S	22S	40S

注: 以OCD-170加工30度坡口为例;  
为加工时间, 不含初次调整辅助时间;  
5S夹紧、15S主轴启动进刀退刀、5S夹紧松开。  
Example:OCD-170 machine,30degree beveling  
Above beveling time excluding initial time of install and adjust time.  
5s for clamping,15s feeding with no-load,5s for clamping and releasing



### 坡口类型 / Beveling Shape



坡口类型及坡口角度, 以及加工管道材质, 请订购前申明 Other beveling shape, angle and pipe material, please declare before order

### 加工刀具 / Tooling

为了满足加工现场的各种要求, 我们有丰富的刀具种类可供选择, 更可以按照客户需求订制不同角度, 不同尺寸的刀具。  
Options of form type and insert type tools  
Available for cutting all thickness and material of pipe and beveling at any required angle.

嵌入式刀具

刀柄材质: 40Cr  
刀片材质: 硬质合金  
种类: 平口刀, 坡口刀, 复合坡口刀, 内坡口刀

Material: Tool holder:40Cr; Insert: CSS or Carbide  
Kinds: Cut off, beveling, Double beveling, Compound beveling  
Angle: 0°, 30°, 37.5°, double 30°/37.5°, 37.5° +10°



### 物流系统 / Option Pipe Conveyer

按需定制配套物流系统, 一切从满足用户需求出发。自动进给或手动进给可选, 辊架长度和尺寸大小按需定制。

Customizable size and option the automatic or manual feeding.

Optional pipe conveyer and automatic length setting systems, be formulated with highly efficient logistics system, and form pipe cutting and beveling prefabricated production line



管道进料输送系统 Front pipe conveyer



管道换向输送系统 Exchange system





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# SPLIT FRAME PIPE CUTTING AND BEVELING MACHINE

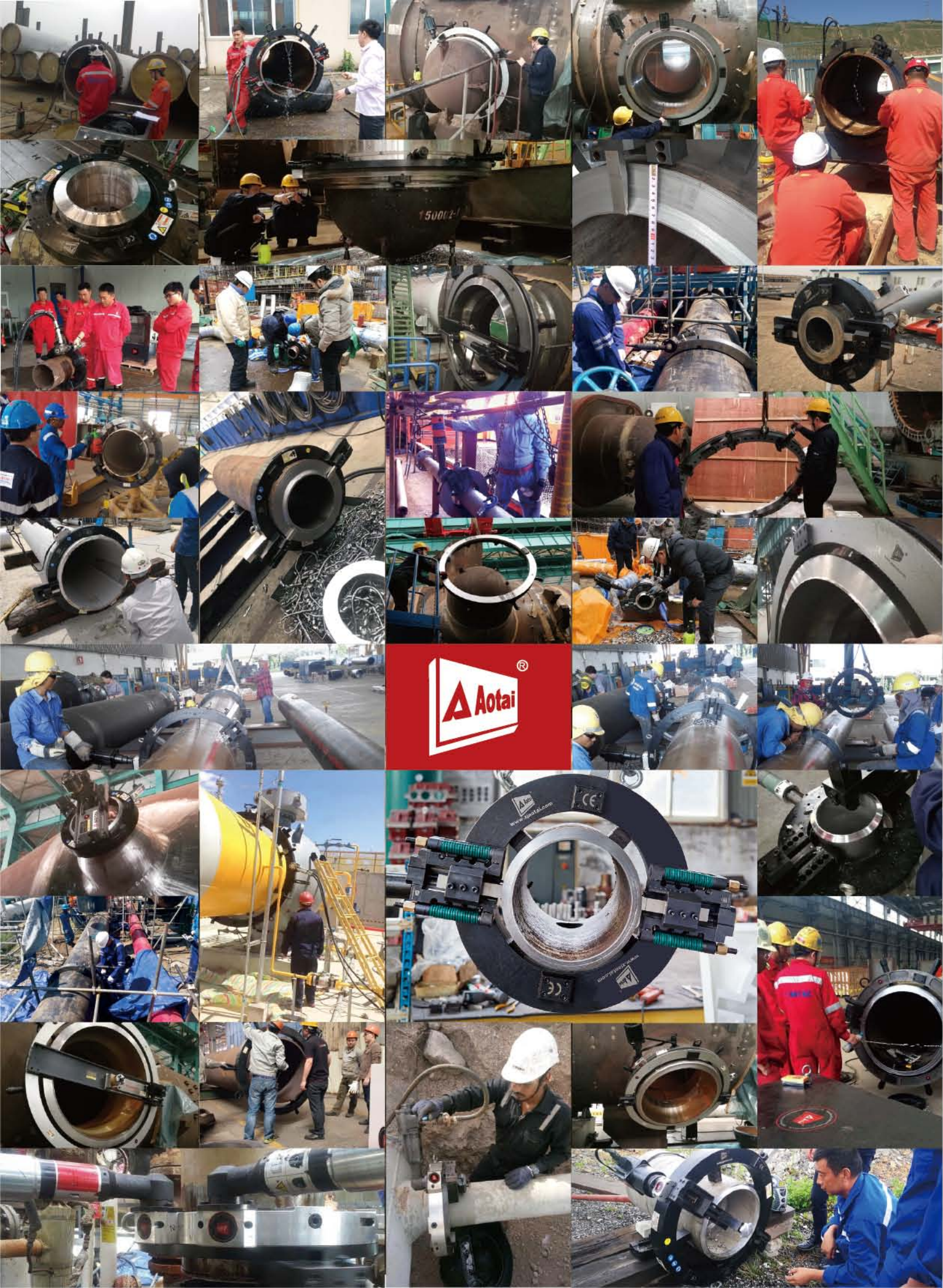
外部安装式管子切割坡口机

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com







# MINI SPLIT FRAME PIPE CUTTING AND BEVELING MACHINE

## 微型外部安装式管子切割坡口机

### 产品简介 / Overview

小直径轻便型分瓣式管子切割坡口机，针对小直径管道现场切割研发的一款轻便型切割工具。机体为对开式圆环结构，拆分和组合非常便捷，可安装于管线的任何位置。本系列产品是最小型和最紧凑的轻便型分瓣式管道切割坡口机，其设计巧妙，机构紧凑，体积小，避免干涉，尤其适用于狭窄施工的地方，如排管、弯管、管道支架等，在锅炉，发电，石油，天然气和造船等行业中广泛用途。

Mini split frame pipe cutting and beveling machine used by pipefitters and welders in weld preparation for industrial pipe. smartly designed, ability to split in half at the frame, easy to install on the pipe line. This series product is the most small and compact split frame clamshell style, small size, avoid interference, especially suitable for tight places, such as exhaust pipe, elbow, pipe racks, etc., mainly used in boiler, power generation, oil, gas and shipbuilding. Nine models are available in 0.5 or 1inch (25.4mm) increments, with additional sizes available by special order.

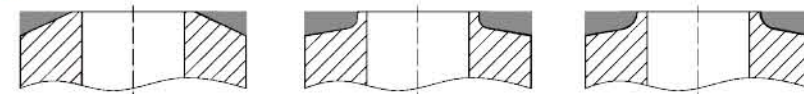


### 产品特点 / Features

- 1、铝合金机体，重量轻，单手可操作
- 2、合页式对开式机体，可安装于管线任何位置
- 3、一次装夹，切割和坡口同时进行
- 4、完全的冷切割方式，不改变管子材质
- 5、自动进刀，无须手动调整，高效率，高品质
- 6、可加工的切割坡口形式：U型，V型，J型
- 7、9个型号，适用范围：12.5-152.4mm
- 8、单台范围跨度0.5" 或1"
- 9、可选驱动方式：电动式，气动式

- Cutting, beveling and counterboring
- Clever designed, small size, avoid interference.
- Aluminum body, light weight, one - handed operation.
- Out-mounted style, clamping by multipoint jaws.
- Split frame technology, easy to install on the pipeline.
- Cold cutting and beveling, don't influence the pipe's material.
- Auto feed, cutting and beveling at the one time, cost effective.
- Variety of beveling shape: "U", "V", "J".
- Non-standard model can be customized
- 9 models are available in pipe OD 1/2" -6"
- Electric. Pneumatic drive options are available.

### 坡口类型 / Beveling Shape



V型坡口  
V-type

J型坡口  
J-type

U型坡口  
U-type

坡口类型及坡口角度，以及加工管道材质，请订购前申明 Other beveling shape, angle and pipe material, please declare before order



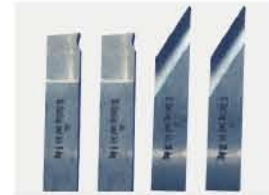
## 技术参数 / Specification

规格型号 Model		加工范围 Capacity OD		切削壁厚 Wall thickness	刀盘转速 Rotating
电动 Electric	气动 Pneumatic	mm	inch	mm	rpm
ISDS1	ISFS1	Φ12.5~25.4	0.5"~1"	≤15	34
ISDS1.5	ISFS1.5	Φ25.4~38.1	1"~1.5"	≤15	24
ISDS2	ISFS2	Φ38.1~50.8	1.5"~2"	≤15	23
ISDS2.5	ISFS2.5	Φ50.8~63.5	2"~2.5"	≤15	23
ISDS3	ISFS3	Φ63.5~76.2	2.5"~3"	≤15	23
ISDS3.5	ISFS3.5	Φ76.2~88.9	3"~3.5"	≤15	23
ISDS4	ISFS4	Φ88.9~101.6	3.5"~4"	≤15	20
ISDS5	ISFS5	Φ101.6~127	4"~5"	≤15	20
ISDS6	ISFS6	Φ127~152.4	5"~6"	≤15	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

## 轻便型成型刀 / Tooling

材质: M42和 M35      Material: HSS-Co M42 and HSS M35  
 种类: 切断刀, 坡口刀      Type: Sever, Bevel,  
 角度: 0度, 30度, 37.5度      Angle: 0degree, 30degree, 37.5degree



## 动力参数 / Power Supplies

1、电动式 Electric:  
 电源要求: 50~60Hz, 220V, 1P  
 功率: 1.43KW  
 可选配充电式电机  
 Electric requirement: 220V 1PH 50/60HZ  
 Power: 1.43KW  
 Battery Motor Optional

2、气动式 Pneumatic:  
 气源要求: 1500~2000L/min@ 0.63~0.8Mpa  
 功率: 1.1HP或2HP  
 Air requirement: 1500~2000L/min @0.63~0.8Mpa  
 Power: 1.1HP or 2HP



# S STANDARD SPLIT FRAME PIPE CUTTING AND BEVELING MACHINE 标准型分瓣式管子切割坡口机

## 产品简介 / Overview

澳太标准型分瓣式管子切割坡口机，依照国际通用管道标准设定加工范围，可对各种规格的管道，容器，法兰进行单切断或单坡口加工，更可以同时完成切断坡口加工，还可以进行复合型坡口及法兰面加工。其设计巧妙，安装和操作十分简单，机体为对开式圆环结构，拆分和组合非常便捷，可安装于管线的任何位置，是一种可移动的管道切割坡口机床，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切割坡口加工，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。

Standard split frame pipe cutting and beveling machine, designed to cut, bevel, single point, counterbore and face on the pipe, tube and flanges. It is a portable pipe cutting and beveling machine tools of clamshell style. smartly designed, ability to split in half at the frame, easy to install on the pipe line. It is comprehensive used in pipework of oil, gas, food, petroleum, chemical, boiler, medicine machine, nuclear power, and power supply construction. 16 models are available in 6inch (152.4mm) increments, with additional sizes available by special order.

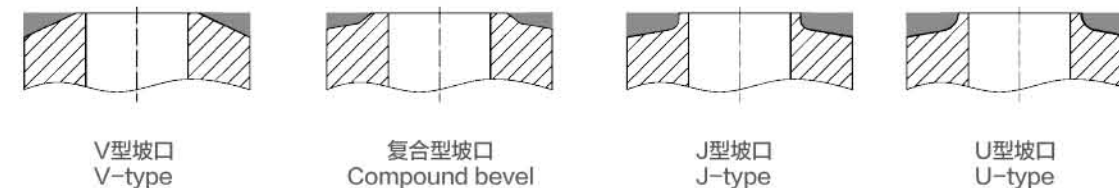


## 产品特点 / Features

- 1、单台机器直径跨度为6英寸
- 2、16个型号，适用范围：20~1240mm
- 3、一次装夹，切割和坡口同时进行
- 4、完全的冷切割方式，不改变管子材质
- 5、自动进刀，无须手动调整，高效率，高品质
- 6、合叶式对开式机体，分瓣安装于管线任何位置
- 7、固定环为铝合金或合金钢，动环为合金钢
- 8、更多加工附件可选，便于提高性能和扩展加工能力
- 9、可选驱动方式：电动式，气动式，数控式，液压式
- 10、可加工的切割坡口形式：U型，V型，J型以及双V型和复合型
- 11、驱动头安装方式有直联和直交可选，避免干涉，满足最佳位置安装要求

- 16 models, Working range for pipe OD 1" -48"
- Non-standard model can be customized
- Out-mounted style, clamping by multipoint jaws
- Split frame technology, easy to install on the pipeline
- Cold cutting and beveling, don't influence the pipe's material
- Auto feed, cutting and beveling at the one time, cost effective
- Variety of beveling shape: U,V,Y,J and compound bevels
- Stationary ring is steel; rotation ring is aluminum, and steel optional
- Electric, pneumatic, NC and hydraulic drive optional
- Several different drive options are available to best position the motor for a specific machining application
- It can be equipped a wide range of accessories to increase performance and expand capabilities.

## 坡口类型 / Beveling Shape



坡口类型及坡口角度，以及加工管道材质，请订购前申明 Other beveling shape, angle and pipe material, please declare before order



## 技术参数 / Specification

规格型号 Model				加工范围 Capacity OD		加工壁厚 wall Thickness mm		刀盘转速 Rotating
电动式 Electric	气动式 Electric	数控式 NC	液压式 Hydraulic	mm	inch	单刀 Single	叠刀 Multi	rpm
ISD-90	ISF-90	SKD-90	HYD-90	Φ20~90	3/8"-3"	30	-	34
ISD-168	ISF-168	SKD-168	HYD-168	Φ25~168	1"-6"	30	50	24
ISD-219	ISF-219	SKD-219	HYD-219	Φ50~219	2"-8"	30	50	23
ISD-273	ISF-273	SKD-273	HYD-273	Φ114~273	4"-10"	30	75	23
ISD-323	ISF-323	SKD-323	HYD-323	Φ168~323	6"-12"	30	75	23
ISD-355	ISF-355	SKD-355	HYD-355	Φ177~355	8"-14"	30	110	23
ISD-406	ISF-406	SKD-406	HYD-406	Φ254~406	10"-16"	30	110	22
ISD-457	ISF-457	SKD-457	HYD-457	Φ323~457	12"-18"	30	110	20
ISD-508	ISF-508	SKD-508	HYD-508	Φ355~508	14"-20"	30	110	20
ISD-559	ISF-559	SKD-559	HYD-559	Φ406~559	16"-22"	30	110	14
ISD-610	ISF-610	SKD-610	HYD-610	Φ457~610	18"-24"	30	110	14
ISD-762	ISF-762	SKD-762	HYD-762	Φ610~762	24"-30"	30	110	13
ISD-914	ISF-914	SKD-914	HYD-914	Φ762~914	30"-36"	30	110	11
ISD-1066	ISF-1066	SKD-1066	HYD-1066	Φ914~1066	36"-42"	30	110	10
ISD-1160	ISF-1160	SKD-1160	HYD-1160	Φ980~1160	38"-44"	30	110	9
ISD-1240	ISF-1240	SKD-1240	HYD-1240	Φ1040~1240	40"-48"	30	110	9

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

## 驱动方式 / Power Supplies

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

老款电机：1.43KW 新款无刷电机：1.5kw,2.0kw,3.0kw

Electric: Convenient power supply, Stable Performance, Popular choice

Electric requirement: 220V 1PH 50/60HZ

Carbon brush Motor: 1.43KW, 1.7KW, 2.4KW Brushless Motor: 1.5KW, 2.0KW, 3.0KW

Double motor for big model or heavy duty

气动式：安全防爆，性能稳定，便于维护

气源要求：1500-3500L/min@0.63-0.8Mpa 功率：2HP,3HP,4HP

Pneumatic: Explosion Proof, Stable Performance, Easy to maintenance

Air requirement: 1500-3500L/min @0.63-0.8Mpa Power: 2HP, 3HP, 4HP

Double motor for big model or heavy duty

数控式：动力强劲，噪音低，性能稳定，高承载，可连续作业

电源要求：220V 1PH 50/60Hz或380V 3PH 50/60Hz 功率：1.5kw,2KW,3KW

NC: Powerful drive, High efficiency Low noise, Stable Performance Ideal for heavy wall thickness & large size pipe

Electric requirement: 220V 1PH 50/60Hz; 380V 3PH 50/60Hz Power: 2.0KW or 3.0KW

Double motor for big model or heavy duty

液压式：动力强劲，噪音低，性能稳定，高承载，可连续作业

液压要求：28-50L/min @13Mpa 适配电源：380V 3PH 50/60Hz

Hydraulic: Powerful drive, High efficiency Stable Performance, Low noise, Anti-explosion Ideal for heavy wall thickness & large size pipe

Hydraulic requirement: 28-50L/min @13Mpa Electric requirement: 380V 3PH 50/60Hz



## 刀具 / Tooling

为了满足加工现场的各种要求，我们有丰富的刀具种类可供选择，更可以按照客户需求订制不同角度，不同尺寸的刀具。

Options of form type and insert type tools Available for cutting all thickness and material of pipe and beveling at any required angle.

### 1. 成型刀具

材质：M42和M35

种类：切断刀,坡口刀,双坡口刀,复合坡口刀,内坡口刀

角度：0°, 30°, 37.5° (标配); 双面30°, 37.5° +10° (选配)

### Form Type

Material: M42 or M35

Kinds: Cut off, bevels, Double bevels, Compound bevels

Angle: 0°, 30°, 37.5°, double 30° / 37.5°, 37.5° +10°



### 2. 嵌入式刀具

刀柄材质：40Cr 刀片材质：硬质合金

种类：切断刀,坡口刀,双面坡口刀,复合坡口刀

角度：0°, 30°, 37.5°, 双面30°, 37.5° +10°

### Insert Type

Material: Tool holder: 40Cr; Insert: CSS or Carbide

kinds: Cut off, bevels, Double bevels, Compound bevels

Angle: 0°, 30°, 37.5°, double 30° / 37.5°, 37.5° +10°



## 刀架 / Tool slide

更实用，多途径，更多解决方案 More Practical, More Ways, More Solutions



### 1. 标准刀架

适用常见的规格管道

单刀最大切割管壁：30mm

叠刀最大切割管壁：110mm

最大行程：154mm

Standard Tool Slide

Used for conventional pipe

Wall thickness of single point: 30mm

Wall thickness of multi point: 110mm

Radial travel: 154mm



### 2. 圆度补偿刀架

适用于变形的椭圆管道

最大切割壁厚：110mm

最大行程：110mm

OD Tacking Slide

Solution for out-of-round pipe

The max. wall thickness: 110mm

Radial travel: 110mm



### 3. 钻铣复合加工刀架

钻铣一体

克服应力集中的危害

提高切削效率

Drilling and Milling slide

Solution for problem of stress damage to the tool

Improve the cutting efficiency

Improve the safe factor



### 4. 管外壁加工刀架

管外壁修整，去除防腐层

径向行程：110mm

轴向行程：200mm

Surface turning slide

Surface turning, removal anti-corrosion layer

Radial travel: 110mm Axle travel: 200mm



### 5. 内坡口刀架

用于管道内壁坡口

径向行程：110mm

轴向行程：100mm

Counterbore slide

Used for pipe inside diameters.

Radial travel: 110mm Axle travel: 100mm



### 6. 桥式刀架

超厚壁管坡口 内径加工

加工法兰面

Bridge slide

Single point heavy wall machining

Flange facing

Counterboring





# HEAVY DUTY SPLIT FRAME PIPE CUTTING AND BEVELING MACHINE

## 重型外部安装式管子切割坡口机

### 产品简介 / Overview

重型分瓣式管子切割坡口机，是针对厚壁管、大直径等重型管道的切割坡口加工，以及法兰面加工而研发的一种便携式机床。总共8个型号，切屑管径范围：305mm-3050mm,单个型号切割直径跨度为12英寸。机体同样为对开式圆环结构，拆分和组合非常便捷，可安装于管线的任何位置。本系列产品以其超大加工范围，超强切削能力，在核电，热能，石油，天然气和造船等行业管道和法兰的检修工程和安装现场得到了广泛应用，深受广大用户认可。

Heavy duty split frame pipe cutting and beveling machine, designed to cut, bevel, single point, counterbore and face on the Heavy wall pipe and flanges. Ideal for wide diameter range 12" in the one machine, and 8 models are available from 12" to 120". It is a portable pipe cutting and beveling machine tools of clamshell style. ability to split in half at the frame, easy to install on the pipe line. It is comprehensive used in pipework of oil, gas, petroleum, chemical, boiler, nuclear power, and power supply construction.

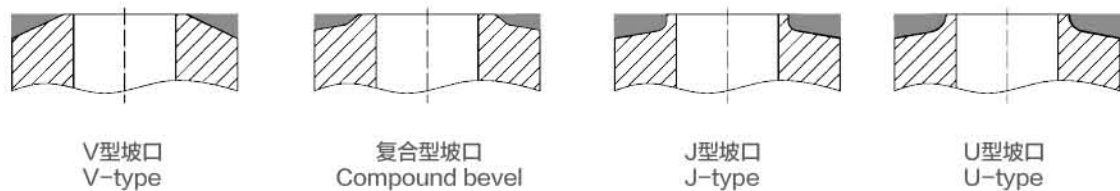


### 产品特点 / Features

- 1、单台设备加工范围大，直径跨度达12"
- 2、适用管径范围：12" -120" /305-3050mm
- 3、承载能力大，适用于重型管道的切割坡口一体加工
- 4、合叶式对开式机体，可安装于管线任何位置
- 5、完全的冷切割方式，不改变管子材质
- 6、自动进刀，无须手动调整，高效率，高品质
- 7、驱动方式：电动式，气动式，数控式，液压式
- 8、双驱动或多驱动接口，满足大型或重型管道加工要求

- Used for heavy wall pipe cutting and beveling, and flange facing
- 8 models, Working range for pipe OD 12" -120"
- Ideal for wide diameter range 12" in the one machine
- Out-mounted style, clamping by multipoint jaws
- Split frame technology, easy to install on the pipeline
- Cold cutting and beveling, don't influence the pipe's material
- Auto feed, cutting and beveling at the one time, cost effective
- Variety of beveling shape: "U", "V", "J", double "V", compound bevels
- Electric, pneumatic, numerical controller and hydraulic drive options are available

### 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

坡口类型及坡口角度，以及加工管道材质，请订购前申明 Other beveling shape, angle and pipe material, please declare before order

### 技术参数 / Specification

型号 Model				加工范围 Capacity OD		切削壁厚 Wall thickness	刀盘转速 Rotating
电动 Electric	气动 Pneumatic	数控 NC Electric	液压 Hydraulic	mm	inch	mm	rpm
ISD-2412H	ISF-2412H	SKD-2412H	HYD-2412H	Φ305-610	12"-24"	≤110	14
ISD-3624H	ISF-3624H	SKD-3624H	HYD-3624H	Φ610-914	24"-36"	≤110	11
ISD-4836H	ISF-4836H	SKD-4836H	HYD-4836H	Φ914-1240	36"-48"	≤110	9
ISD-6048H	ISF-6048H	SKD-6048H	HYD-6048H	Φ1220-1524	48"-60"	≤110	5
ISD-7560H	ISF-7560H	SKD-7560H	HYD-7560H	Φ1524-1910	60"-75"	≤110	4
ISD-9075H	ISF-9075H	SKD-9075H	HYD-9075H	Φ1910-2290	75"-90"	≤110	4
ISD-10590H	ISF-10590H	SKD-10590H	HYD-10590H	Φ2290-2680	90"-105"	≤110	3
ISD-120105H	ISF-120105H	SKD-120105H	HYD-120105H	Φ2680-3050	105"-120"	≤110	2

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：230V 1PH 50/60HZ

功率：1.7KW 或2.4KW 大型号选用双驱动

Electric:

Convenient power supply Stable Performance Popular choice

Electric requirement: 220-240V 1PH 50/60HZ

Power: 1.7KW,2.4KW 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：1500-3500L/min@0.63-0.8Mpa

功率：3HP或4HP 大型号选用双驱动

Pneumatic:

Explosion Proof Stable Performance Easy to maintenance

Air requirement: 1500-3500L/min @0.63-0.8Mpa

Power: 3HP,4HP Double motor for big model or heavy duty



#### 3、数控式：

动力强劲性能稳定，高承载，可连续作业

电源要求：230V 1PH 50/60Hz或380V 3PH 50/60Hz

功率：2.0KW或3.0KW 大型号选用双驱动

NC Electric:

High efficiency low noise ,stable performance Ideal for heavy duty

Electric requirement: 230V 1PH 50/60Hz; 380V 3PH 50/60Hz

Power: 2.0KW or 3.0KW Double motor for big model or heavy duty



#### 4、液压式：

动力强劲，噪音低，性能稳定，安全防爆

液压要求：28-50L/min @13Mpa; 适配电源：380V 3PH 50/60Hz

Hydraulic:

Powerful drive, High efficiency Stable Performance, Low noise, Anti-explosion Ideal for heavy wall thickness & large size pipe

Hydraulic requirement: 28-50L/min @13Mpa Electric requirement: 380V 3PH 50/60Hz





## 刀具 / Tooling

为了满足加工现场的各种要求，我们有丰富的刀具种类可供选择，更可以按照客户需求定制不同角度，不同尺寸的刀具。

Options of form type and insert type tools Available for cutting all thickness and material of pipe and beveling at any required angle.

### 1. 成型刀具

材质: M42和M35

种类: 切断刀, 坡口刀, 双坡口刀, 复合坡口刀, 内坡口刀

角度:  $0^\circ, 30^\circ, 37.5^\circ$  (标配); 双面 $30^\circ, 37.5^\circ +10^\circ$  (选配)

### Form Type

Material: M42 or M35

Kinds: Cut off, bevels, Double bevels, Compound bevels

Angle:  $0^\circ, 30^\circ, 37.5^\circ, \text{double } 30^\circ / 37.5^\circ, 37.5^\circ +10^\circ$



### 2. 嵌入式刀具

刀柄材质: 40Cr 刀片材质: 硬质合金

种类: 切断刀, 坡口刀, 双面坡口刀, 复合坡口刀

角度:  $0^\circ, 30^\circ, 37.5^\circ, \text{双面 } 30^\circ, 37.5^\circ +10^\circ$

### Insert Type

Material: Tool holder: 40Cr; Insert: CSS or Carbide

kinds: Cut off, bevels, Double bevels, Compound bevels

Angle:  $0^\circ, 30^\circ, 37.5^\circ, \text{double } 30^\circ / 37.5^\circ, 37.5^\circ +10^\circ$



## 刀架 / Tool slide

更实用, 多途径, 更多解决方案 More Practical, More Ways, More Solutions



### 1、大行程刀架

单刀加工: 最大切割管壁30mm

叠刀加工: 最大切割管壁110mm

最大行程: 305mm

Heavy duty Tool Slide

Used for conventional pipe

Wall thickness of single point: 30mm

Wall thickness of multi point: 110mm

Radial travel: 305mm



### 2、圆度补偿刀架

适用于变形的椭圆管道

最大切割壁厚: 110mm

最大行程: 110mm

OD Tacking Slide

Solution for out-of-round pipe

The max. wall thickness: 110mm

Radial travel: 110mm



### 3、钻铣复合加工刀架

钻铣一体

克服应力集中的危害

提高切削效率

Drilling and Milling slide

Solution for problem of stress damage to the tool

Improve the cutting efficiency

Improve the safety factor



### 4、管外壁加工刀架

管外壁修整, 去除防腐层

径向行程: 110mm

轴向行程: 200mm

Surface turning slide

Surface turning, removal anti-corrosion layer

Radial travel: 110mm Axle travel: 200mm



### 5、内坡口刀架

用于管道内壁坡口

径向行程: 110mm

轴向行程: 100mm

Counterbore slide

Used for pipe inside diameters.

Radial travel: 110mm Axle travel: 100mm



### 6、桥式刀架

超厚壁管坡口 内径加工

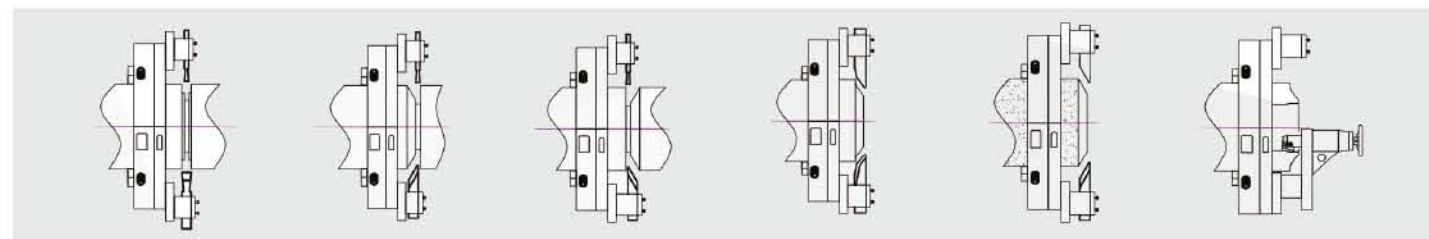
加工法兰面

Bridge slide

Single point heavy wall machining

Flange facing

Counterboring







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# ID MOUNTED PIPE BEVELING & FACING

## 内涨式管子坡口机平口机

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com





# 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
- Variety 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-28TX	TCM-28TX	Φ12.5-28	≤3	0.75	53
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-120T	TCM-120T	Φ45-105	≤20	1.43	34
SDC-150T	TCM-150T	Φ65-159	≤20	1.43	34
SDC-150TN	TCM-150TN	Φ60-170	≤20	1.43	34
SDC-350T	TCM-350T	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:

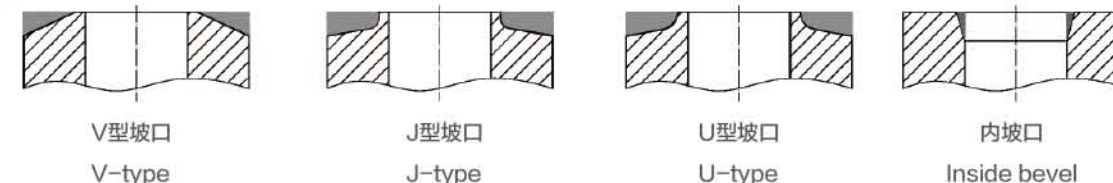
安全防爆，性能稳定，便于维护  
气源要求: 1500-2000L/min@0.63-0.8MPa  
功率: 1.1HP, 2HP

#### 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



### 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

Holder Material: 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
- Variety 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

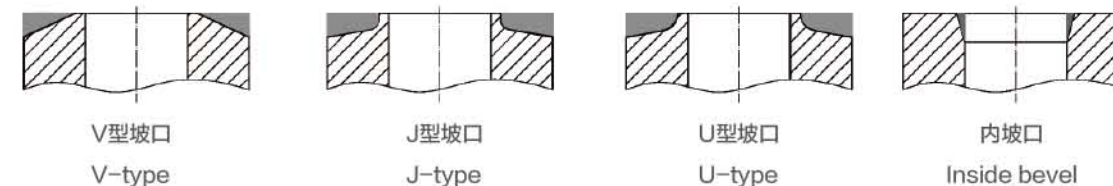
#### Pneumatic:

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



### 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

Holder Material: HSS;

Insert material: Cermet or Carbide

Optional





# 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 stroke 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
- Variety 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

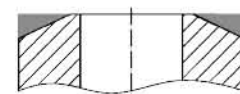
Power: 2HP, 3HP

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

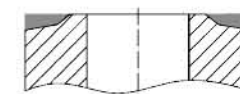
Servo motor and hydraulic driven optional for special material and high efficient



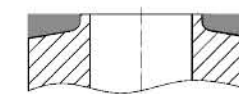
### 坡口类型 / Beveling Shape



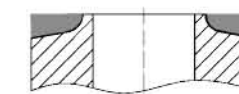
V型坡口  
V-type



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 stroke 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:

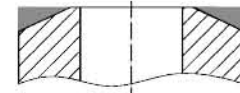
Powerful drive, High efficiency Stable Performance, Low noise, Anti-explosion

Hydraulic requirement: 28-50L/min @13Mpa

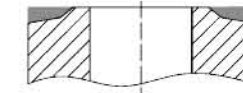
Electric requirement: 380V 3PH 50/60Hz



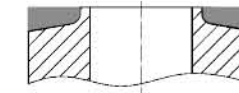
### 坡口类型 / Beveling Shape



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，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 stroke	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	0.7m <sup>3</sup> /min	0.7m <sup>3</sup> /min	0.7m <sup>3</sup> /min	0.7m <sup>3</sup> /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







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# OD MOUNTED BEVELING & FACING

## 外卡式管端坡口机平口机

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com





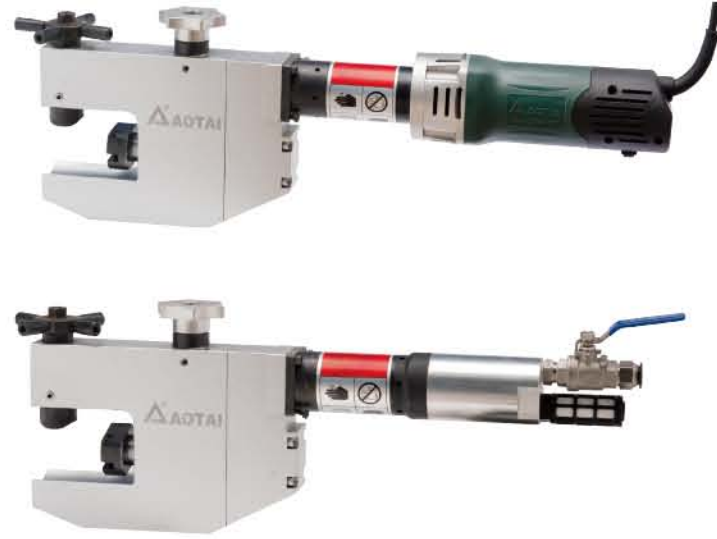
# C-I NARROW DESIGN PIPE BEVEING MACHINE

## C-I 型-外卡式管子端面坡口机

### 产品简介 / Overview

C-I 型外卡式管端坡口机，针对狭窄工作间，小管径管道端面坡口加工而设计。采用外卡式定位安装，不同规格涨紧块适配不同管径，定心更精确，装夹更稳固，其结构更紧凑，操作简单，广泛应用于水冷壁、锅炉鳍片、省煤器、过热器、再热器、电厂等行业中，单管和排管的坡口机加工。

C-I narrow design pipe beveling machine was designed for the end beveling of narrow working site and small diameter pipe. OD mounted on the pipe, one clamping block just fit one size pipe, secured clamping, easy to operate. It was widely used in water wall, fins, boiler economizer, superheater, preheater, power plants and other industries, the single pipe and exhaust pipe facing and beveling



### 产品特点 / Features

- 1、加工管径范围广
- 2、铝合金机身，适宜高空作业
- 3、管外壁定位安装，自动定心，手动进刀
- 4、可选配专用刀具可加工内螺纹管道
- 5、电动和气动两种驱动方式可选

- Cold cutting, without influence the material of the pipe
- OD mounted, self-centering, secured clamping, easy to operate
- Aluminum body is light, suitable for working aloft.
- 5 models, working range: 8-108mm
- Optional special tool bit use for pipe inner thread
- Driven motor: Pneumatic and Electric

### 技术参数 / Specification

规格型号 Model		加工范围 Range	坡口壁厚 Thickness	进刀行程 Rotating	刀盘转速 Tool stroke	最小管长 Pipe length
电动 Electric	气动 Pneumatic	OD mm	mm	mm	rpm	mm
ISC-53	TSC-53	Φ8~53	≤8	11	0-58	≥60
ISC-63	TSC-63	Φ20~63	≤12	11	0-55	≥70
ISC-73	TSC-73	Φ25~73	≤12	11	0-54	≥70
ISC-83	TSC-83	Φ30~83	≤12	11	0-43	≥70
ISC-108	TSC-108	Φ50~108	≤12	11	0-42	≥70

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

### 涨紧夹头 / Clamping Block

型号 Model	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ISC-53	Φ8	Φ10	Φ12	Φ14	Φ16	Φ18	Φ20	Φ22	Φ25	Φ28	Φ32	Φ38	Φ42	Φ44.5	Φ48	Φ51	Φ53
ISC-63	Φ20	Φ22	Φ25.4	Φ28	Φ32	Φ38	Φ42	Φ44.5	Φ48	Φ51	Φ54	Φ57	Φ60	Φ63			
ISC-73	Φ25.4	Φ28	Φ32	Φ38	Φ42	Φ44.5	Φ48	Φ51	Φ57	Φ60	Φ63	Φ68	Φ70	Φ73			
ISC-83	Φ25.4	Φ28	Φ32	Φ38	Φ42	Φ44.5	Φ48	Φ51	Φ57	Φ60	Φ63	Φ68	Φ70	Φ73	Φ76	Φ83	
ISC-108	Φ50	Φ54	Φ57	Φ60	Φ63	Φ68	Φ70	Φ73	Φ76	Φ83	Φ89	Φ95	Φ108				

一种规格涨紧夹头适配唯一管径，随机标配四种规格涨紧夹头，如需更多规格，购买前请声明

One clamping block just fit one size pipe

Standard with four diameter clamping block, more specifications please inquire

### 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: 1.43KW

Electric:

Convenient power supply Stable Performance Popular choice

Electric requirement: 220V 1PH 50/60HZ

Power: 1.43KW

#### 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

Pneumatic:

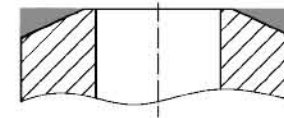
Explosion Proof Stable Performance Easy to maintenance

Air requirement: 500-2000L/min @0.63-0.8MPa

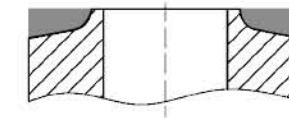
Power: 2HP



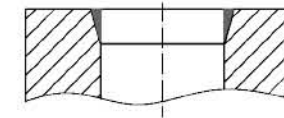
### 坡口类型 / Beveling Shape



V型坡口  
V-type



U型坡口  
U-type



内坡口  
Inside bevel

### 加工刀具 / Tooling

坡口角度: 0°, 30°, 37°, 15° 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

一体式设计，可通过磨刀，循环使用;

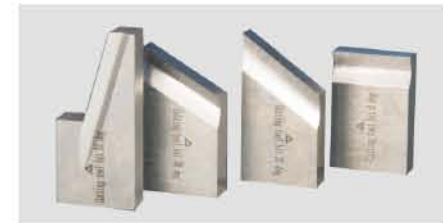
材质: M42和 M35

Form tool

can be reused by grinding

Material: M42和M35

Standard supply



#### 2、嵌入式刀具

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





# C-II AUTO FEED PIPE BEVELING MACHINE

## C-II型-外卡式管端自动坡口机

### 产品简介 / Overview

C-II型外卡式管端自动坡口机，针对狭窄工作间，小管径管道端面坡口加工而设计。采用外卡式定位安装，不同规格涨紧块适配不同管径，定心更精确，装夹更稳固，其结构更紧凑，更轻便，自动进刀，操作更简便，是C型管子端面坡口机的增强型，广泛应用于水冷壁、锅炉鳍片、省煤器、过热器、再热器等行业中，单管和排管的坡口机加工。

C-II Auto feed pipe facing machine was designed for the end beveling of narrow working site and small diameter pipe. OD mounted on the pipe, one clamping block just fit one size pipe, secured clamping automatic feeding, easy to operate. It was widely used in water wall, fins, boiler economizer, superheater, reheater, power plants and other industries, the single pipe and exhaust pipe facing and beveling



### 产品特点 / Features

- 1、加工管径范围广
- 2、铝合金机身，适宜高空作业
- 3、机械式自动进退刀，无需手动调节
- 4、可选配专用刀具可加工内螺纹管道
- 5、外卡式定位安装，自动定心，使用更方便
- 6、德国进口麦太保调速电机驱动，动力强，噪音小，耐用性高

- Cold cutting, without influence the material of the pipe
- OD mounted, self centering, secured clamping, easy to operate
- Aluminum body is light, suitable for working aloft.
- 5 models, working range: 8-108mm
- Optional special tool bit use for pipe inner thread
- Driven motor: Pneumatic and Electric

### 技术参数 / Specification

规格型号 Model	加工范围 Range	坡口壁厚 Thickness	刀盘转速 Tool stroke	进刀行程 Rotating	机体厚度 Body thickness
	OD mm	mm	rpm	mm	mm
ISC-53-II	φ14-53	≤12	0-58	0-20	54
ISC-76-II	φ25-76	≤12	0-54	0-20	58

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

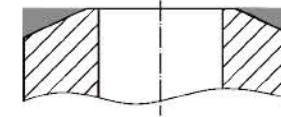
### 涨紧夹头 / Clamping Block

型号 Model	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ISC-53-2	φ14	φ16	φ18	φ20	φ22	φ25.4	φ28	φ32	φ38	φ42	φ45	φ48	φ51	φ53	
ISC-76-2	φ25.4	φ28	φ32	φ38	φ42	φ45	φ51	φ54	φ57	φ60	φ63	φ68	φ70	φ73	φ76

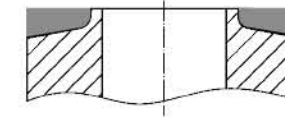
一种规格涨紧夹头适配唯一管径，随机标配四种规格涨紧夹头，如需更多规格，购买前请声明

One clamping block just fit one size pipe  
Standard with four diameter clamping block, more specifications please inquire

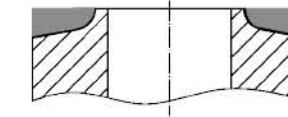
### 坡口类型 / Beveling Shape



V型坡口  
V-type



J型坡口  
J-type



U型坡口  
U-type

### 动力参数 / Power Supplies

调速电机  
电源要求: 220V 1PH 50/60HZ  
功率: 1.3KW  
Electric requirement: 220V 1PH 50/60HZ  
Power: 1.3KW

### 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

一体式设计，可通过磨刀，循环使用

材质: M42和 M35

Forming tool

can be reused by grinding

Material: M42和M35

Standard supply



#### 2、分体焊接式刀具 (选配)

硬质合金焊接刀具更耐用

刀托材质: 40Cr

刀片材质: 硬质合金

Insert tool

Insert same, different angle holder

Holder material: 40Cr

Insert material: Cermet or Carbide





# PFM PIPE FACING MACHINE

## PFM 管端平口机

### 产品简介 / Overview

PFM系列管端平口机，主要针对小直径薄壁钢管的管端快速平口而设计。采用外卡夹紧定位安装，配备专用夹具和刀具，安装方便，加工快速高效。其体积小，重量轻，携带方便。适用于电子，制药，食品，饮料，太阳能，半导体以及化学行业的管端的平口和坡口加工。

PFM pipe facing machine was designed for pipe end facing and beveling with small diameter and thin-wall thickness. OD mounted, equipped with special collect and tool, easy installation, fast and efficient processing. It is small in size, light in weight and easy to carry. It is suitable for facing and beveling of pipe end in electronics, pharmaceutical, food, beverage, solar energy, semiconductor and chemical industry.



### 产品特点 / Features

- 1、切削量可微调，手动进刀，加工精度高
  - 2、满足于高纯净要求的薄壁管端平口和坡口加工
  - 3、平口加工，端面无毛刺，与轴线100%垂直
  - 4、刀片和夹具安装快捷，加工一道平口只需几秒钟
  - 5、2种型号，加工范围：管外径3mm-110mm
  - 6、不同直径规格的管子，选配不同规格的夹具
  - 7、电源选择：电池式和有线电机式
  - 8、整机小巧轻便，移动便捷，适应多种工位和工况下使用
  - 9、可用于碳钢、不锈钢、合金钢，铝合金管子
- Auto feeding, high precision
  - One collect clamp one size pipe
  - Driven by electric motor or battery
  - Cleaning cutting, no water and oil
  - 2 models, working range for pipe OD 3mm-110mm
  - Pipe end absolute vertical, no deformation, no burrs, perfect weld-prep
  - Fast install, fast cutting, one facing only need a few seconds
  - Can be used for alloy steel, carbon steel, stainless steel and aluminum

### 技术参数 / Specification

参数 Item	型号 Model	PFM-1.0	PFM-1.0A	PFM-4.0A
电源方式 Drive		电池式 Battery	电机 Electric motor	电机 Electric motor
管外径范围 Range		φ3-25.4mm	φ3-25.4mm	φ12.7-110mm
进刀行程 Tool stroke		5mm	5mm	5mm
加工壁厚 thickness		0.5-3mm	0.5-3mm	0.5-5mm
空载转速 No-load rotating		300rpm	300rpm	300rpm
额定电压 Voltage		14.4v	220v	220v
功率 Power		-	1.3kw	1.3kw
净重 Net Weight		2.3kg	4.8kg	19kg

标配四种直径规格涨紧块，如需更多规格，购买前请声明 相关技术参数仅供参考，不作为最终交货标准  
Standard with four diameter clamping block, more specifications please inquire

### 标配刀具 / Tooling

三片平口刀  
材质：硬质合金或金属陶瓷

2pcs facing tool  
Material: Cermet or Carbide  
Beveling tool optional







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# ORBITAL PIPE CUTTING MACHINE

## 行星式切管机

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com





# OSE/OSK ORBITAL PIPE CUTTING MACHINE

## OSE/OSK 行星式切管机

### 产品简介 / Overview

OSE/OSK行星式切管机是不锈钢薄壁管切割的最佳选择，本机采用麦太保电机驱动，保证强有力的动力，是管管焊前道工序的必备设备。优化设计，节省空间，操作简单，安装快捷，“自定心式”管子夹紧装置，管子不产生变形，锯片式切割头绕钢管旋转一周既可将管子切断，端面绝对垂直、无毛刺，钢管不变形，为钢管焊接提供质量保证。可切割材质：碳钢、合金钢、有色金属、工程塑料等，广泛应用于半导体、电子、啤酒、制药、生物科技、饮料、乳品、压力容器、化工、油气、船舶、水处理等行业切管加工。

OSE/OSK orbital pipe cutting machine is the best choice for stainless steel thin-wall pipe cutting. This machine adopts Metabo motor drive to ensure strong power. It is necessary equipment for pipe welding prep. The end face is absolutely vertical without burrs, and the steel pipe is not deform, providing quality assurance for the welding of steel pipes. Cuttable materials: carbon steel, alloy steel, non-ferrous metals, engineering plastics, etc., widely used in semiconductor, electronics, beer, pharmaceuticals, biotechnology, beverages, dairy, pressure vessels, chemical, oil and gas, ships, water treatment and other industries Processing.



### 产品特点 / Features

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1、快速更换刀片</li> <li>2、完全冷切割，不影响材质</li> <li>3、切口垂直不变形，端面无毛刺</li> <li>4、可安装坡口锯片同时对管子进行切割与坡口</li> <li>5、独特行星式切割，薄壁管切割最佳性价比</li> <li>6、安全性高，管道静止，切割头旋转完成加工</li> <li>7、可干切，始终保持管端清洁，切断后可直接焊接</li> <li>8、锯片与国际品牌切管机通用</li> <li>9、自动进给和手动进给可选</li> </ol> | <ul style="list-style-type: none"> <li>•Quickly install the blade</li> <li>•Cold cutting ,don't influence the pipe's material</li> <li>•Vertical incision without deformation, burr-free end surface</li> <li>•Option beveling saw for pipe cutting and beveling</li> <li>•Unique orbital cutting, thin wall tube cutting best equipment</li> <li>•High safety, stationary pipe, cutting head rotation completed</li> <li>•Dry cutting, kept cleaning, be welded directly after cutting</li> <li>•Saw blade compatible with other brand pipe cutting machine</li> <li>•OSE manual feeding, OSK automatic feeding</li> </ul> |
|--|---|

### 技术参数 / Specification

规格型号 Model		加工范围 Range	切削壁厚 Thickness		锯片转速 Rotating
手动式 Manual	自动式 Automatic	mm	CS mm	SS mm	rpm
OSE-120	OSK-120	Φ15-120	≤12	≤4	80-120
OSE-170	OSK-170	Φ30-170	≤12	≤4	80-120
OSE-220	OSK-220	Φ60-225	≤12	≤4	80-120
OSE-320	OSK-320	Φ140-330	≤12	≤4	80-120
OSE-420	OSK-420	Φ215-420	≤12	≤4	80-120
OSE-520	OSK-520	Φ315-520	≤12	≤4	80-120
OSE-620	OSK-620	Φ346-630	≤12	≤4	80-120
OSE-720	OSK-720	Φ486-760	≤12	≤4	80-120

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

电源要求: 220V,50-60Hz,1P  
 锯片驱动电机: 1.3KW转速可调  
 OSK进给电机: 伺服电机0.75KW

Electric Requirements: 220V, 50-60Hz, 1P  
 Saw blade drive motor: 1.3KW  
 OSK feeding motor: Servo motor 0.75KW



### 加工刀具 / Tooling

材质: M42	Material: M42
标配: 2把切割锯片	Standard: 2 pcs cutting blade
选配: 坡口锯片30°, 37°, 45°	Optional: beveling saw blade 30°, 37°, 45°



标配: 切割锯片  
Standard: cutting blade



选配: 坡口锯片  
Optional: beveling saw blade





# OSG-120 ORBITAL PIPE CUTTING MACHINE

## OSG-120 行星式切管机

### 产品简介 / Overview

OSG-120 切管机是我公司结合国内外同类产品优化设计的一款新型行星式切管机，该机采用博世电机驱动，超大功率，经久耐用。其设计紧凑，节省空间，重量轻，便于携带。人体工学电机把手，带动切割头旋转更安全、便捷。切割后，管子端面绝对垂直、无毛刺，可直接焊接，使用专用坡口锯片还可完成坡口加工，为确保焊接质量提供保证。可切割材质：碳钢、合金钢、有色金属、工程塑料等，广泛应用于半导体、电子、啤酒、制药、生物科技、饮料、乳品、压力容器、化工、油气、船舶、水处理等行业切管加工。

OSG-120 Orbital Pipe Cutting Machine is a new pipe cutting machine optimized by our company combining domestic and foreign similar products. This machine adopts Bosch motor drive, super power, durable. Its compact design saves space, is lightweight and portable. Ergonomic handle motor. Drive the cutting head to rotate more safely and conveniently. After cutting, The end face is absolutely vertical without burrs. Be welded directly, using special bevel blade may also be completed beveling, Guaranteed welding quality



### 产品特点 / Features

- 1、完全冷切割，不影响材质
  - 2、切口垂直不变形，端面无毛刺
  - 3、可同时安装切割锯片和坡口锯片
  - 4、快速，一道切割或坡口加工仅需几秒钟
  - 5、安全性高，管道静止，锯片行星旋转完成切割
  - 6、博世电机驱动，超大功率，动力更强劲
  - 7、体积小，重量轻，车间作业和野外施工都适宜
  - 8、锯片与国际品牌切管机通用
- Cold cutting, don't influence the pipe's material
  - Vertical incision without deformation, burr-free end surface
  - Simultaneous installation of cutting and beveling saw blades
  - Fast, cutting or bevel processing takes only a few seconds
  - High safety, the pipe is stationary, the saw blade planet rotates to complete cutting
  - Bosch motor drive, super power, more powerful
  - Small size, light weight, suitable for workshop operations and field construction
  - Saw blade compatible with other brand pipe cutting machine

### 技术参数 / Specification

规格型号 Model	加工范围 Range		切削壁厚 Thickness		锯片转速 Rotating rpm
	mm	OD mm	碳钢 CS mm	不锈钢 SS mm	
OSG-120	Φ10	~120	≤12	≤7	80~120

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

### 锯片驱动电机 / Saw blade drive motor

电源要求: 220V, 50-60Hz, 1P 功率: 2.0KW

转速: 6档可调

Electric Requirements: 220V, 50-60Hz, 1P

Power: 2.0KW

Speed: adjustable

### 加工刀具 / Tooling

材质: M42

标配: 2把切割锯片

选配: 坡口锯片30°, 37°, 45°

Material: M42

Standard: 2 pcs cutting blade

Optional: beveling saw blade 30°, 37°, 45°



标配: 切割锯片  
Standard: cutting blade



选配: 坡口锯片  
Optional: beveling saw blade





# OSR-120 ORBITAL PIPE CUTTING MACHINE

## OSR-120 行星式切管机

### 产品简介 / Overview

OSR-120 行星式切管机主要用于不锈钢管焊接要求较高的工业领域，该机采用原装麦太保电机驱动，保证强劲有稳定的动力。切割时，管子被创新型抱紧式夹紧装置夹紧，管子不变形，手动驱动切割头绕钢管旋转一周将管子切断，切割完成后，端面绝对垂直、无毛刺，可直接焊接，使用专用坡口锯片还可完成坡口加工，为确保焊接质量提供保证。可切割材质：碳钢、合金钢、有色金属、工程塑料等，广泛应用于半导体、电子、啤酒、制药、生物科技、饮料、乳品、压力容器、化工、油气、船舶、水处理等行业切管加工。

OSR-120 Orbital Pipe Cutting Machine adopts Metabo motor drive to ensure strong power. It is necessary equipment for pipe welding prep. Optimize design, save space, operate simply, install quickly. "Self-centering" type pipe clamping device, Saw blade cutting head can cut off the pipe by rotating around the steel pipe once a week. The end face is absolutely vertical without burrs, and the steel pipe is not deform, providing quality assurance for the welding of steel pipes. Cuttable materials: carbon steel, alloy steel, non-ferrous metals, engineering plastics, etc., widely used in semiconductor, electronics, beer, pharmaceuticals, biotechnology, beverages, dairy, pressure vessels, chemical, oil and gas, ships, water treatment and other industries Processing.



### 产品特点 / Features

- 1、完全冷切割，不影响材质
- 2、切口垂直不变形，端面无毛刺
- 3、可同时安装切割锯片和坡口锯片
- 4、快速，一道切割或坡口加工仅需几秒钟
- 5、安全性高，管道静止，锯片行星旋转完成切割
- 6、锯片与国际品牌切管机通用
- 7、体积小，重量轻，车间作业和野外施工都适宜

- Cold cutting, don't influence the pipe's material
- Vertical incision without deformation, burr-free end surface
- Simultaneous installation of cutting and beveling saw blades
- Fast, cutting or bevel processing takes only a few seconds
- Small size, light weight, suitable for workshop operations and field construction
- Saw blade compatible with other brand pipe cutting machine
- High safety, the pipe is stationary, the saw blade planet rotates to complete cutting

### 技术参数 / Specification

规格型号 Model	加工范围 Range	切削壁厚 Thickness		锯片转速 Rotating
	OD mm	碳钢 CS mm	不锈钢 SS mm	rpm
OSR-120	Φ15~120	≤12	≤5	80~120

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

### 锯片驱动电机 / Saw blade drive motor

电源要求: 220V,50-60Hz,1P  
 功率: 1.3KW  
 转速: 6档可调  
 Electric Requirements: 220-230V, 50-60Hz, 1P  
 Power: 1.3KW  
 Speed: 6-speed adjustable

### 加工刀具 / Tooling

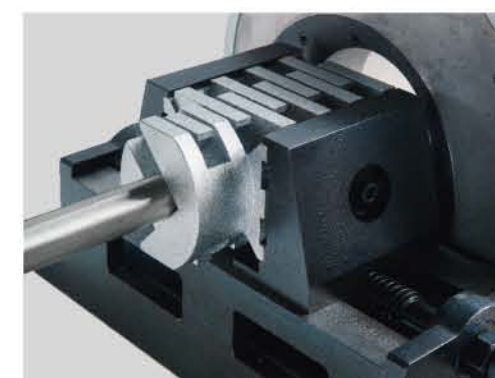
材质: M42  
 标配: 2把切割锯片  
 选配: 坡口锯片30°, 37°, 45°  
 Material: M42  
 Standard: 2 pcs cutting blade  
 Optional: beveling saw blade 30°, 37°, 45°



标配: 切割锯片  
Standard: cutting blade



选配: 坡口锯片  
Optional: beveling saw blade







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# FLANGE FACING MACHINE

法兰加工机

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com





# ID MOUNTED FLANGE FACING MACHINE

## 内涨式法兰端面加工机

### 产品简介 / Overview

内涨式法兰端面加工机，法兰内径安装，针对法兰面，水纹线，密封槽加工而研发，采用最新的直线和滚珠螺杆技术，设备整体采用模块化设计理念，每一个环节的设计均以现场加工为出发点。广泛应用于石油、化工、天然气、核电等行业法兰联接，安装抢修工程，为现场施工提供了更高的安全保障和更高的生产效率。

ID mounted flange facing machine is designed for the Flange facing, seal groove, serrated finish, weld prep. and counterboring. with the latest line and ball screw technology, the equipment adopts the modular design concept as a whole. Each step of design takes the field processing as the starting point. This machine is widely used in the flange connecting of Petroleum, chemical, natural gas and nuclear power. With the light weight, this machine is helpful for the on-site maintenance. It ensures the high security and efficiency.



### 产品特点 / Features

- 1、6种规格，加工范围200-4521mm，夹紧范围200-4521mm
- 2、自动进刀，加工精度可调，加工品质高
- 3、重量轻，便于携带，安装快捷，使用方便
- 4、标配车削动力头，适用于法兰面，密封水纹线，密封槽加工
- 5、可选配镗削和铣削动力头，可用于镗孔和铣削加工
- 6、可选的驱动方式：气动式，数控式，液压式

- light weight, easy to carry, fast installation and easy to use;
- Stock finish, smooth finish, gramophone finish, on flanges, valve seats and gaskets.
- Boring and milling tools are optional
- Driven motor: Pneumatic, NC driven, Hydraulic driven
- Latest linear technology for durability and repeatable accuracy
- Standard stock finishes carried out with step: 0.2 - 0.4 - 0.6 - 0.8 mm.

### 技术参数 / Specification

型号 Model			加工范围 Working range		刀具行程 Tool stroke	刀盘转速 Rotating
气动 Pneumatic	数控 NC	液压 Hydraulic	装夹范围 mm	加工范围 mm	mm	rpm
AYI-305	SYI-305	HYI-305	Φ50-230	Φ50-305	≤110	34
AYI-610	SYI-610	HYI-610	Φ200-500	Φ200-610	≤110	34
AYI-1016	SYI-1016	HYI-1016	Φ508-914	Φ508-1016	≤110	24
AYI-1420	SYI-1420	HYI-1420	Φ610-1016	Φ610-1420	≤110	24
AYI-2032	SYI-2032	HYI-2032	Φ1168-1930	Φ1168-2032	≤110	24
AYI-3048	SYI-3048	HYI-3048	Φ2210-2810	Φ2210-3048	≤110	23
AYI-4521	SYI-4521	HYI-4521	Φ2210-4521	Φ2210-4521	≤110	23

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

气动式:

气源要求: 1500-3500L/min@0.63-0.8Mpa

功率: 2HP, 3HP或4HP

数控式:

电源要求: 220V 1PH 50/60Hz或380V 3PH 50/60Hz

功率: 2.0KW或3.0KW

液压式:

液压要求: 28-50L/min @13Mpa;

适配电源: 380V 3PH 50/60Hz

额定压力: 13MPa

额定流量: 28L/min

最大输出扭矩: 380NM

Pneumatic:

Air requirement:1500-3500L/min @0.63-0.8Mpa

Power: 2HP,3HP,4HP

Double motor for big model or heavy duty

NC:

Electric requirement: 220V 1PH 50/60Hz;

380V 3PH 50/60Hz

Power: 2.0KW or 3.0KW

Double motor for big model or heavy duty

Hydraulic:

Hydraulic requirement: 28-50L/min @13Mpa

Electric requirement: 380V 3PH 50/60Hz

Rated Pressure: 13MPa

Rated flow:28L/min

Max. Torque: 380NM



### 嵌入式刀具 / Insert style

刀柄材质: 40Cr

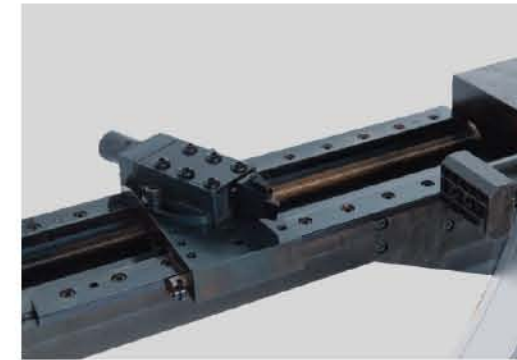
刀片材质: 硬质合金

种类: 切槽刀, 法兰面正刀、偏刀

Material: Holder HSS ;

Insert: HSS-Co or Carbide

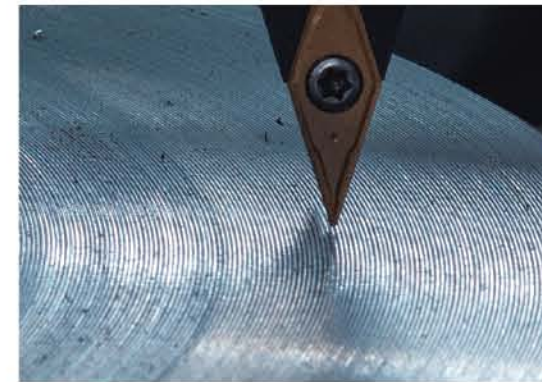
Type: Grooving, Facing,



角度调节刀架  
Tool slide



复合进刀机构  
Compound feed mechanism



密封线加工  
Sealing



铣削加工  
Milling



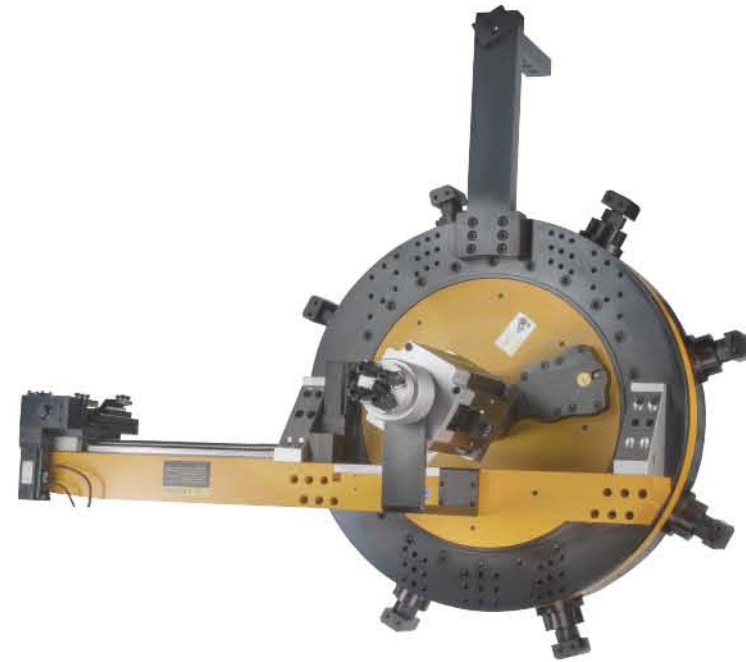
# SSYI ID MOUNTED CNC FLANGE FACING MACHINE

## 内涨式全数控法兰加工中心

### 产品简介 / Overview

SSYI内涨式全数控法兰加工中心，是内涨式法兰端面加工机的增强型，针对法兰面和管道端面复合型坡口而设计，采用伺服电机驱动，澳太独创数控系统，实现轴向和径向联动进给加工，刀具加工轨迹通过数控编程控制，让野外现场的法兰和管道复杂型维修及施工变得更容易。

ID mounted CNC flange facing machine is new type flange facer. It is designed for both flange and all the complicated pipe end processing. This machine is driven by the Servo motor, and controlled by the AOTAI CNC system to realize the axial and radial feeding processing. The tools are controlled by the program, which makes the complex maintenance and the construction of flange and pipeline in field much easier.



### 产品特点 / Features

- 1、加工范围0-4521mm，夹紧范围100-4521mm,均可选型
- 2、自动进刀，加工精度可调，加工品质高
- 3、伺服电机驱动，轴向和径向联动加工，可编程控制加工
- 4、移动式人机对话，预设加工参数，可视化模拟加工
- 5、适用于法兰面，水纹线，密封槽加工，厚壁管的复合型坡口加工
- 6、更可对管端进行复合型坡口加工以及内、外螺纹加工

- Working range 200-4521mm, Clamping range 200-4521mm
- The processing precision is adjustable and the processing quality is high.
- servo motor drive, axial and radial linkage processing, program able control processing;
- man-machine interface, preset processing parameters, and visualized simulation processing;
- suitable for processing flange face, Serrated finishing, sealing groove and composite beveling for thick wall pipe;
- Internal and external thread machining

### 技术参数 / Specification

型号 Model	装夹范围 Clamping range	加工范围 Working range	进刀行程 mm Stroke mm		电机功率 kw Motorpowerkw		
	IDmm	mm	径向 Radial	轴向 Axial	主轴 Spindle	轴向 Radial	径向 Axial
SSYI-610	Φ200-500	Φ200-610	210	110	2.0	0.4	0.4
SSYI-1016	Φ508-914	Φ508-1016	254	110	2.0	0.4	0.4
SSYI-1420	Φ610-1016	Φ610-1420	405	110	2.0	0.4	0.4
SSYI-2032	Φ1168-1930	Φ1168-2032	432	110	5.5	0.4	0.4
SSYI-3048	Φ2210-2810	Φ2210-3048	420	110	7.5	0.4	0.4
SSYI-4521	Φ2210-4521	Φ2210-4521	1156	110	11	0.4	0.4

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

### 嵌入式刀具 / Insert style

刀柄材质: 40Cr

刀片材质: 硬质合金

种类: 切槽刀, 法兰面正刀、偏刀

Material: Holder HSS ;

Insert: HSS-Co or Carbide

Type: Grooving, Facing



数控系统  
Mobile control box



移动控制器  
Mobile controller



重型管道加工  
Heavy duty for pipe





# OD MOUNTED FLANGE FACING MACHINE

## 外卡式法兰端面加工机

### 产品简介 / Overview

外卡式法兰端面加工机，针对法兰面，水纹线，密封槽加工而设计研发，采用最新的直线和滚珠螺杆技术，设备整体采用模块化设计理念，每一个环节的设计均以现场加工为出发点。广泛应用于石油、化工、天然气、核电等行业法兰联接，安装抢修工程，为现场施工提供了更高的安全保障和更高的生产效率。

OD mounted flange facing machine is designed for the Flange face, seal groove and serrated finish, weld prep. and counter boring. With the latest line and ball screw technology, the equipment adopts the modular design concept as a whole. Each step of design takes the field processing as the starting point. This machine is widely used in the flange connecting of Petroleum, chemical, natural gas and nuclear power. With the light weight, this machine is helpful for the on-site maintenance. It ensures the high security and efficiency.



### 产品特点 / Features

- 1、加工范围0-3000mm，夹紧范围150-3000mm,均可选型
- 2、自动进刀，加工精度可调，加工品质高
- 3、标配车削动力头，适用于法兰面，密封水纹线，密封槽加工
- 4、可选配镗削和铣削动力头，可用于镗孔和铣削加工
- 5、可选的驱动方式：气动式，数控式，液压式

- boring and milling tools are optional
- driven motor: Pneumatic, NC driven, Hydraulic driven
- Working range 0-3000mm, Clamping range 150-3000mm
- light weight, easy to carry, fast installation and easy to use
- Stock finish, smooth finish, gramophone finish, on flanges, valve seats and gaskets
- High quality finish can be achieved. The feed of cut is automatic from the o/d. inwards
- Standard stock finishes carried out with step: 0.2 - 0.4 -0.6 - 0.8 mm

### 技术参数 / Specification

型号 Model			装夹范围 Clamping range	加工范围 Working range	刀具行程 Tool stroke	刀盘转速 Rotating
气动 Pneumatic	数控 Electric	液压 Hydraulic	OD mm	mm	mm	rpm
AYO-500	SKO-500	HYO-500	Φ150-500	Φ100-500	110	14
AYO-1000	SKO-1000	HYO-1000	Φ500-1000	Φ200-1000	110	10
AYO-1500	SKO-1500	HYO-1500	Φ1000-1500	Φ500-1500	110	8
AYO-2500	SKO-2500	HYO-2500	Φ1500-2500	Φ1000-2500	110	4
AYO-3000	SKO-3000	HYO-3000	Φ2500-3000	Φ1000-3000	110	3

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

气动式:

气源要求: 1500-3500L/min@0.63-0.8Mpa  
功率: 2HP, 3HP或4HP

数控式:

电源要求: 220V 1PH 50/60Hz或380V 3PH 50/60Hz  
功率: 2.0KW或3.0KW

液压式:

液压要求: 28-50L/min @13Mpa  
适配电源: 380V 3PH 50/60Hz  
额定压力: 13MPa  
额定流量: 28L/min  
最大输出扭矩: 380NM

Pneumatic:

Air requirement:1500-3000L/min @0.63-0.8Mpa  
Power: 2HP,3HP,4HP  
Double motor for big model or heavy duty

NC:

Electric requirement: 230V 1PH 50/60Hz;  
380V 3PH 50/60Hz  
Power: 2.0KW or 3.0KW  
Double motor for big model or heavy duty

Hydraulic:

Hydraulic requirement: 28-50L/min @13Mpa  
Electric requirement: 380V 3PH 50/60Hz  
Rated Pressure: 13MPa  
Rated flow:28L/min  
Max. Torque: 380NM



### 嵌入式刀具 / Insert style

刀柄材质: 40Cr

刀片材质: 硬质合金

种类: 切槽刀, 法兰面正刀、偏刀

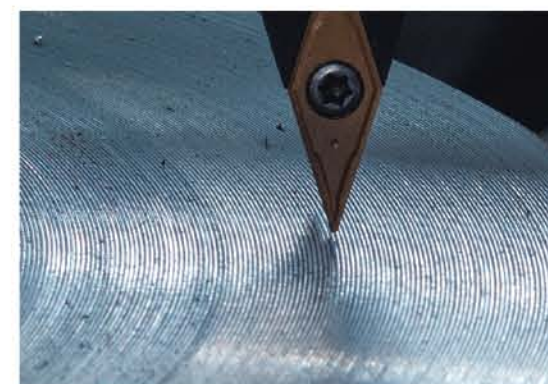
Material: Holder HSS ;  
Insert: HSS-Co or Carbide  
Type: Grooving, Facing,



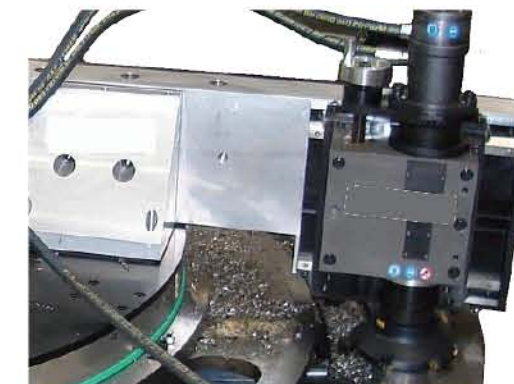
角度调节刀架  
Tool slide



复合进刀机构  
Compound feed mechanism



密封线加工  
Sealing



铣削加工  
Milling



# SSYO OD MOUNTED CNC FLANGE FACING MACHINE

## 外卡式全数控法兰加工中心

### 产品简介 / Overview

外卡式全数控法兰加工中心，是外卡式法兰端面加工机的增强型，针对法兰面和管道端面复合型坡口而设计，采用伺服电机驱动，澳太独创数控系统，实现轴向和径向联动进给加工，刀具加工轨迹通过数控编程控制，让野外现场的法兰和管道复杂型维修及施工变得更容易。

OD mounted CNC flange facing machine is new type flange facer. It is designed for both flange and all the complicated pipe end processing. This machine is driven by the Servo motor, and controlled by the AOTAI CNC system to realize the axial and radial feeding processing. The tools are controlled by the program, which makes the complex maintenance and the construction of flange and pipeline in field much easier.



### 产品特点 / Features

- 1、加工范围0-3000mm，均可选型
- 2、自动进刀，加工精度可调，加工品质高
- 3、伺服电机驱动，轴向和径向联动加工，可编程控制加工
- 4、移动式人机对话，预设加工参数，可视化模拟加工
- 5、适用于法兰面，水纹线，密封槽加工，管端复合型坡口
- 6、更可对管端进行复合型坡口加工以及内、外螺纹加工

- Working range 100-3000mm, Clamping range 100-3000mm
- The processing precision is adjustable and the processing quality is high.
- servo motor drive, axial and radial linkage processing, program able control processing;
- man-machine interface, preset processing parameters, and visualized simulation processing;
- suitable for processing flange face, Serrated finishing, sealing groove and composite beveling for thick wall pipe;
- Internal and external thread machining

### 技术参数 / Specification

型号 Model	装夹范围 Clamping range	加工范围 Working range	进刀行程 mm Stroke mm		电机功率 kw Motor power kw		
	OD mm	mm	径向 Radial	轴向 Axial	主轴 Spindle	轴向 Radial	径向 Axial
SSYO-500	Φ100-500	Φ100-500	200	200	2.0	0.4	0.4
SSYO-1000	Φ200-1000	Φ200-1000	400	400	2.0	0.4	0.4
SSYO-1500	Φ1000-1500	Φ300-1500	600	600	2.0	0.4	0.4
SSYO-2500	Φ1500-2500	Φ610-2500	945	945	5.5	0.4	0.4
SSYO-3000	Φ2500-3000	Φ1000-3000	1000	1000	7.5	0.4	0.4

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

### 嵌入式刀具 / Insert style

刀柄材质: 40Cr

刀片材质: 硬质合金

种类: 切槽刀, 法兰面正刀、偏刀

Material: Holder HSS

Insert: HSS-Co or Carbide

Type: Grooving, Facing



数控系统  
Mobile control box



移动控制器  
Mobile controller







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# PLATE BEVELING MACHINE

钢板坡口机

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com





# SKF-15 PORTABLE PLATE BEVELING MACHINE

## SKF-15手持式钢板坡口机

### 产品简介 / Overview

SKF-15手持式钢板坡口机，为各类金属板材焊接前坡口、倒角加工而设计。本机采用铣削加工方式，手动推进式进刀，其体积小、重量轻、携带方便，操作简单，是一种便捷式的钢板坡口加工的工具，是核工业，造船厂，制药机械，压力容器等行业必备生产设备。

SKF-15 portable plate beveling machine, designed for metal plate prep-welding, to beveling, chamfering and milling. Adopts milling process, handy feeding, small volume and light weight, carry easily, simple operation, a portable plate groove tool, the essential production equipment of nuclear industry, shipbuilding, pharmaceutical machinery, pressure vessels and other industries fields.



### 产品特点 / Features

- 冷加工方式，不改变钢板材质
  - 坡口角度30度至60度任意调节
  - 可加工坡口形式：V，Y型
  - 可加工板材厚度无限制，最大坡口斜宽15mm
  - 表面粗糙度可达Ra3.2-Ra6.3
  - 选配管道装夹辅具，可对管端进行坡口加工
  - 适合加工碳钢、不锈钢、合金钢、铸铁、硬质塑料等工程型材
- Cold cutting, don't change the material of plate.
  - Angle adjustable: 30deg to 60deg.
  - Beveling shape: K,V, Y.
  - Plate thickness unlimited, maximum groove slope width is 15mm
  - Surface roughness: Ra3.2-Ra6.3
  - Can use pipeline clamp tool, to bevel the end of pipeline.
  - Suitable for carbon steel, stainless steel, alloy steel, Cast iron, hard plastic, etc.

### 技术参数 / Specification

型号 Model	适配电源 Power supply	电机功率 Power	单刀切削深度 Single Depth	最大坡口斜宽 Max land Width	坡口角度 Bevel angle	加工速度 Speed	重量 Weight
SKF-15	380V 50HZ 3P	1.1KW	3mm	15mm	30° -60°	1-3m/min	18KG
SKF-15N	220V 50HZ 1P	2.0KW	5mm	15mm	30° -60°	1-3m/min	14KG

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

### 加工刀具 / Tooling

组合蝶形铣刀盘2个，嵌入式四方刃铣刀片12片  
2 combination butterfly milling tool carriers,  
12 embedded four-edge milling cutters.



# SKF-900 AUTOMATIC FEEDING PLATE BEVELING MACHINE

## SKF-900自动行进式平板坡口机

### 产品简介 / Overview

SKF-900自动行进式平板坡口机，专为各类金属板材焊接前坡口、铣边、倒角加工而设计。加工小尺寸板材，机器固定不动，板材自动进给加工；加工大尺寸板材，板材固定不动，机器沿板材边缘自动行进加工；工作高度不标准时，可以不带底座，机器悬挂式坡口加工。本机采用铣削加工方式，是一台功能强大，应用广泛的各种等级的钢板以及其他金属板材坡口加工设备。其体积小、重量轻、方便移动、操作简单，是核工业，造船厂，制药机械，压力容器等行业必备生产设备。

SKF-900 Automatic plate beveling machine, designed for metal plate prep-welding, to beveling, chamfering and milling. For small size plate, machine fixed, plate feed and process automatically; For large size plate, plate fixed, machine along the edge of the plate process automatically. The machine can be suspended process without a base when the working height is not standard, This machine adopts milling method, a powerful, widely used steel plate grooving equipment. Small volume, light weight, move easily, simple operation, the essential production equipment of nuclear industry, shipbuilding, pharmaceutical machinery, pressure vessels and other industries fields.



### 产品特点 / Features

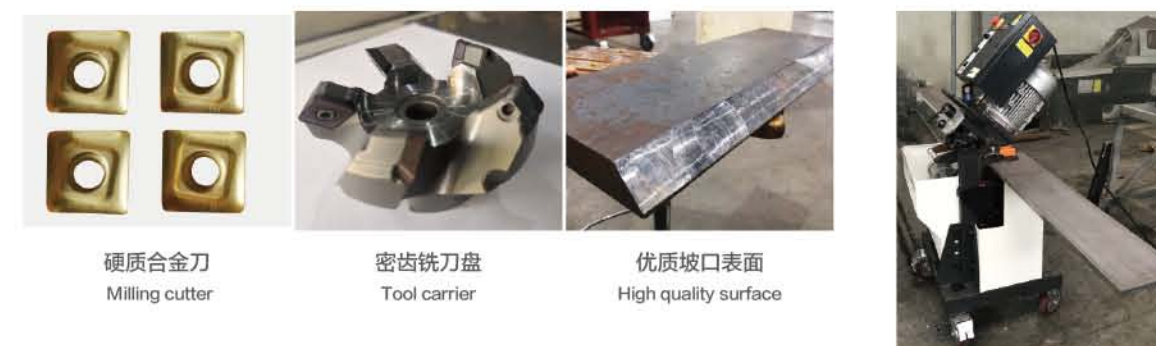
- 冷加工方式，不改变钢板材质
  - 坡口角度15度至60度任意调节
  - 夹持板厚:8-50mm，最大坡口斜宽45mm
  - 可加工坡口形式：V、Y、K、X型
  - 铣削加工，表面粗糙度可达Ra3.2-Ra12.5
  - 双数显控制系统，切削速度和进给速度均可调
  - 适合加工碳钢、不锈钢、合金钢、铸铁等工程型材
- Beveling shape: V, Y,K,X.
  - Angle adjustable: 15deg to 60deg.
  - Surface roughness: Ra3.2-Ra6.3
  - Cold cutting, don't change the material of plate.
  - Plate thickness range 8-50mm, maximum groove slope width is 45mm
  - Suitable for carbon steel, stainless steel, alloy steel, Cast iron, hard plastic, etc.
  - Double digit display control system, cutting speed and feeding speed adjustable.

### 技术参数 / Specification

适配电源 Electric supply	AC 380V 50HZ 3P	最大加工速度 Max process speed	3000mm/min
切削电机功率 Cutting motor power	4.0KW	进给速度 Feeding speed	0-1000mm/min
进给电机功率 Feed motor power	0.09KW	可加工板材长度 Plate length	≥300mm
坡口角度 Beveling angle	15° -60°	可加工板材宽度 Plate width	≥100mm
最大坡口斜宽 Max land Width	45mm	可加工板材厚度 Plate thickness	8-50mm
切削深度调整范围 Beveling depth	5-30mm	单刀最大切削深度 Single depth	5mm
加工表面粗糙度 Surface roughness	Ra3.2-Ra12.5	机器重量 Weight	约210KG

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

### 加工刀具 / Tooling



硬质合金刀  
Milling cutter

密齿铣刀盘  
Tool carrier

优质坡口表面  
High quality surface





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# PIPE HOLE CUTTER

## 管道开孔机

Aotai Machine Manufacturing Co.,Ltd.  
Add:No.4238,Binhai Third Avenue,Binhai Industry  
Area,Wenzhou,325025,China.  
Tel:0086-577-86830918 / 86808798  
Fax:0086-577-86821773  
Web: www.zjaotai.com, www.zjaotai.cn  
E-mail: sales@wzaotai.com

澳太机械制造有限公司  
地址: 中国.温州经济技术开发区滨海园区十路三道4238号  
电话: 0086-577-86829982 / 86817214  
传真: 0577- 86821773  
网址: www.zjaotai.com, www.zjaotai.cn  
邮箱: sales@wzaotai.com





# PIPE HOLE CUTTER

## 管道开孔机

### 产品简介 / Overview

澳太管开孔机，针对工业管道开孔，镗孔而设计。采用拉伸式链条锁紧定位，安装于管道外壁，任意位置和角度均可操作。配备大功率电机，动力强劲，输出扭矩大，满足厚壁管的开孔需求。体积小重量轻，操作简便，可用于碳钢、不锈钢、合金钢，铝合金管子以及硬质的非金属管子加工，应用于工业锅炉，制药机械，太阳能，给排水，化学工程，核电等行业管道开分支，管路改造过程中的开孔作业。

Aotai pipe hole cutter, designed for industrial pipe drilling and boring. Tension chain locking positioning is adopted to install on the outside wall of the pipe. Can be operated at any position and Angle. Equipped with high power motor, strong power, high output torque, meet thick wall pipe drilling. Small volume, light weight, simple operation, the essential production equipment of Industrial boilers, pharmaceutical machinery, solar power, water supply and drainage, chemical engineering, nuclear power and other industries fields, pipe drilling operation in the process of transformation.



### 产品特点 / Features

- 1、完全的冷切割，不改变管子材质
- 2、开孔精度高，无毛刺便于焊接
- 3、适配市场上主流的空心钻头
- 4、最大开孔深度达60mm,是重型管道开孔的利器
- 5、电动和气动两种驱动方式可选，使用更广泛

- Cold drilling, don't change the material of pipe
- Drilling hole of high precision, no burr to facilitate welding
- Hollow drill bits on the market are versatile
- maximum hole depth up to 60 mm, is the most effective tools for heavy duty pipe drilling
- electric and pneumatic drive optional, use more widely

### 技术参数 / Specification

规格 / 型号 Model	管径范围mm Pipe OD mm	开孔范围mm Hole size mm	开孔深度mm Drilling depth mm	功率 Power	
电动 Electric	ISM-170	≥ φ140	6-114	5-60	2.0KW
气动 Pneumatic	TSM-170	≥ φ140	6-114	5-60	3HP

开孔直径大小和深度不同，选配不同规格的钻头，订购前请务必声明  
相关技术参数仅供参考，不作为最终交货标准

Different drilling tool size drill different hole, please declare before order  
Above parameters just for reference only, not acceptance criteria

### 动力参数 / Power Supplies

电动式:

能源供应方便，性能稳定，应用广泛

电源要求: 220-230V 1PH 50/60HZ 2.0KW

Electric:

Convenient power supply Stable Performance Popular choice

Electric requirement: 220V 1PH 50/60HZ 2.0KW

气动式:

安全防爆，性能稳定，便于维护

气源要求: 1500-3500L/min@0.63-0.8Mpa 3HP

Pneumatic:

Explosion Proof Stable Performance Easy to maintenance

Air requirement: 1500-3500L/min @0.63-0.8Mpa 3HP



### 刀具选配 / Tooling

本机适配大多数品牌空心钻，订购请声明需要开孔的规格以及材质

This machine is suitable for most brands of hollow drill  
Please state the specification and material of hole drilling

