

## 外部安装式 管子切割坡口机系列

### PIPE CUTTING AND BEVELLING MACHINE SERIES OF OUTER

#### 产品性能

自动进刀，无须手动调整，高效率，高品质；  
机体为对开式圆环结构，可分为两瓣，安装于管线的任何位置，快速方便；  
一次装夹，可同时实现切割、坡口加工；  
可对各种型号规格管道、压力容器及蒸汽发生器进行安全快速的切割坡口加工；  
适用于各种等级的碳钢、不锈钢、合金铜等钢管的切削坡口加工；  
可根据客户要求加工不同形式的坡口：“U”，单“V”，双“V”及“J”型  
完全的冷切割方式，不改变管子材质；  
加工范围更广：管子直径从10mm到3000mm均可造型加工；  
根据管子直径规格的不同，公制与英制两套标准可供自由选型；  
按驱动方式不同分为四种：电动ISD；气动ISF；液压HYD；数控SKD。

#### PERFORMANCE

Automatic feed mechanism, no manual-adjustment, high efficiency, high quality.  
Mounting in one time, can be used for cutting and beveling at the same time.  
Machine body is toroidal cavity construction, can be divided two parts, installed at any space on the pipeline quickly and steadily.  
Can be used for cutting and beveling process of different types and sizes of pipes, pressure vessels and steam generator, safely and quickly.  
Can be used for treatment of pipes material: different grades of carbon steels, stainless steels and alloys.  
Different beveling shapes are available as per customers' requirements.  
Cold cutting process will not influence the quality of the material of the pipe.  
Working range: 10mm to 3000mm  
Standards of Metric system and British system are available as per pipe specifications.  
Sorted by the drive motor: Electric-ISD, Pneumatic-ISF, Hydraulic-HYD, NC-SKD



#### ELECTRIC PIPE CUTTING AND BEVELLING MACHINE

Patent NO: ZL200420107231.4

High speed rotation, driven by low-energy consumption electric motor, easy operation, competitive price.  
Voltage: 220V  
Frequency: 50Hz,  
Grant Current: 12A,  
Power: 0.9~2.5KW

#### 外部安装式电动管子切割坡口机

专利号: ZL200420107231.4

高转速，低能耗电机驱动，使用方便，价格实惠。  
电压: 220V  
频率: 50Hz  
允许电流: 12A  
功率: 0.9~2.5KW.



#### 安装示例 ON-SITE PROCESS



#### 外部安装式气动管子切割坡口机

专利号: ZL200520307232.6

气动马达驱动，加工过程不产生火花，施工安全可靠，特别适用于易燃、易爆、危险性作业场所。

功率: 0.9~2.5KW.  
空气工作压力: 0.5~0.7MPa;  
空气耗气量: 1500~3600L/min;

#### PNEUMATIC PIPE CUTTING AND BEVELLING MACHINE

Patent NO: ZL200520307232.6

Driven by pneumatic motor, No-spark in the process of working, safe and reliable operation, it could be suitable for inflammable and dangerous working places.

Power: 0.9~2.5KW.  
Air Working Pressure: 0.5~0.7MPa;  
Air Consuming Fux: 1500~3600L/min;



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### PIPE CUTTING AND BEVELLING MACHINE SERIES OF OUTER



#### 液压调速管子切割坡口机 专利号: 200820083224.3

液压马达驱动，切割速度可调，使用范围广，寿命长，适用于难切削、厚壁管加工，可连续作业。

额定压力  $P=16\text{MPa}$   
额定流量  $Q=25\text{L}/\text{min}$   
液压马达转速  $n=200/\text{min}$   
液压马达扭矩  $M=260\text{N.M}$   
电机功率  $N=7.5\text{kW}$   
电机转速  $n=1450/\text{min}$   
可调速范围: 0~20/ $\text{min}$   
Timing Range: 0~20/ $\text{min}$

#### HYDRAULIC PIPE CUTTING AND BEVELING MACHINE Patent NO: 200820083224.3

Driven by hydraulic motor, adjustable cutting speed, wide processing range, long life performance, Continuous operations. It is used for cutting and beveling pipes with thick wall pipes.

Rated Pressure = 16 MPa  
Rated Flux Q = 25 L/min  
Hydraulic Motor Power = 200r/min  
Hydraulic Motor Torque M = 260 N.M  
Electric Motor Power N = 7.5 kW  
Electric Motor Rate N = 1450r/min  
Timing Range: 0~20/min

#### 工程实例 PROJECT EXAMPLE



#### 现场加工 ON-SITE PROCESS



#### NC PIPE CUTTING AND BEVELLING MACHINE

Patent NO: ZL200420104472.3

大功率伺服电机驱动，数字控制系统，可实现无级变速，适用于厚壁管的切割、坡口加工。

标准电源: 220V (选配380V; 440V)  
额定功率: 2~3kW  
额定频率: 50~60Hz  
调速范围: 0~20r/min  
电机输出扭矩: 15N.M

Driven by the servo motor of high-power PLC control system, control the speed of feed. It can realize stepless (speed) change regulation.

Standard power: 220V(380V; 440V selectable)  
Rated power: 2~3kW  
Rated frequency: 50~60Hz  
Timing range: 0~20r/min  
Motor Output Torque: 15N.M



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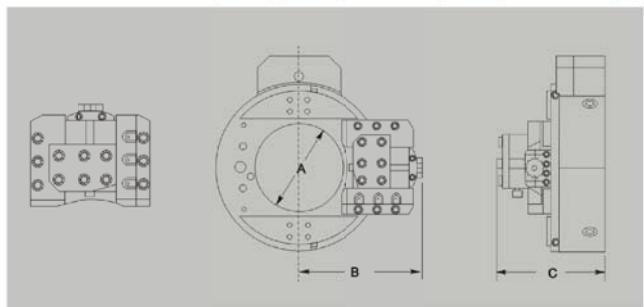
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## 外部安装式 管子切割坡口机系列

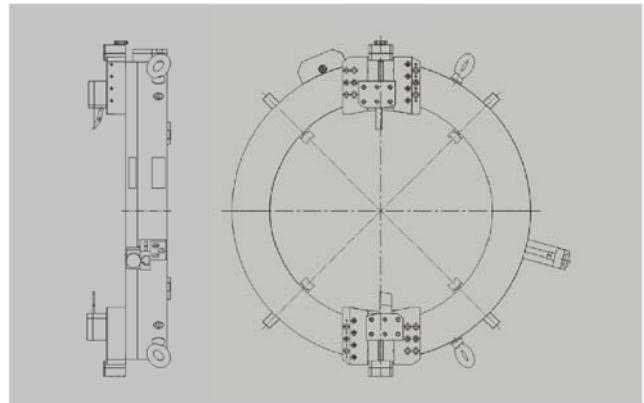
## PIPE CUTTING AND BEVELLING MACHINE SERIES OF OUTER

### 主机尺寸 MACHINE BODY SIZE

(以下所列为澳大标准型号参数, 非标型号请致电咨询)  
(standard specifications, if non-standard specifications, call consult our company)



Model 型号	80	150	300	450	600	750	900	1050	1160	1300	1500
A DIM(mm)	85	166	306	458	606	753	910	1060	1170	1306	1505
B DIM(mm)	171	230	309	385	458	532	613	688	772	840	940
C DIM(mm)	161	161	175	175	175	175	175	175	221	221	221



### 公制标准 METRIC STANDARD

电动 Electric	气动 Pneumatic	液压 Hydraulic	数控 NC	加工范围 Working range (O.D.mm)	切割坡口壁厚 Wall thickness (mm)
ISD-80	ISF-80	HYD-80	SKD-80	Φ 10-80	25/50
ISD-150	ISF-150	HYD-150	SKD-150	Φ 65-150	25/50
ISD-300	ISF-300	HYD-300	SKD-300	Φ 150-300	25/50
ISD-450	ISF-450	HYD-450	SKD-450	Φ 300-450	25/50
ISD-600	ISF-600	HYD-600	SKD-600	Φ 450-600	25/50
ISD-750	ISF-750	HYD-750	SKD-750	Φ 600-750	25/50
ISD-900	ISF-900	HYD-900	SKD-900	Φ 750-900	25/50
ISD-1050	ISF-1050	HYD-1050	SKD-1050	Φ 900-1050	25/50
ISD-1160	ISF-1160	HYD-1160	SKD-1160	Φ 960-1160	25/50
ISD-1240	ISF-1240	HYD-1240	SKD-1240	Φ 1040-1240	25/50
ISD-1300	ISF-1300	HYD-1300	SKD-1300	Φ 1100-1300	25/50
ISD-1500	ISF-1500	HYD-1500	SKD-1500	Φ 1300-1500	25/50
ISD-1700	ISF-1700	HYD-1700	SKD-1700	Φ 1500-1700	25/50
ISD-1910	ISF-1910	HYD-1910	SKD-1910	Φ 1700-1910	25/50
ISD-2100	ISF-2100	HYD-2100	SKD-2100	Φ 1900-2100	25/50
ISD-2300	ISF-2300	HYD-2300	SKD-2300	Φ 2100-2300	25/50

● 加工直径大于1050 mm的管道, 建议采用液压或数控机型  
Process capacity and model selection pipe diameter > 1050mm, Hydraulic or NC model are preferable

### 英制标准 BRITISH SYSTEM STANDARD

电动 Electric	气动 Pneumatic	液压 Hydraulic	数控 NC	加工范围 Working range (O.D.mm)	切割坡口壁厚 Wall thickness (mm)
ISD-168	ISF-168	HYD-168	SKD-168	25.4-168.3 [1"-6"]	25/50
ISD-219	ISF-219	HYD-219	SKD-219	50.8-219 [2"-8"]	25/50
ISD-273	ISF-273	HYD-273	SKD-273	114.3-273 [4"-10"]	25/50
ISD-323	ISF-323	HYD-323	SKD-323	168.3-323 [6"-12"]	25/50
ISD-355	ISF-355	HYD-355	SKD-355	177.8-355.4 [7"-14"]	25/50
ISD-406	ISF-406	HYD-406	SKD-406	254-406.4 [10"-16"]	25/50
ISD-457	ISF-457	HYD-457	SKD-457	323.9-457.1 [12"-18"]	25/50
ISD-508	ISF-508	HYD-508	SKD-508	355.8-508 [14"-20"]	25/50
ISD-610	ISF-610	HYD-610	SKD-610	457.2-609.4 [18"-24"]	25/50
ISD-762	ISF-762	HYD-762	SKD-762	609.6-782 [24"-30"]	25/50
ISD-914	ISF-914	HYD-914	SKD-914	770-914.4 [30"-36"]	25/50
ISD-1066	ISF-1066	HYD-1066	SKD-1066	914.4-1066.8 [36"-42"]	25/50
ISD-1220	ISF-1220	HYD-1220	SKD-1220	1066.8-1220.2 [42"-48"]	25/50



**外部安装式  
管子切割坡口机系列**

**PIPE CUTTING AND  
BEVELLING MACHINE  
SERIES OF OUTER**

**安装方便  
CONVENIENT INSTALLATION**



合叶式哈夫对开机体，分离安装于管线任何位置，快速方便  
Split Frame type allowing set up of at any point along pipelines



**更实用，多途径，更多解决方案！**

**More Practical, Many Ways, More Solutions!**

**追踪刀架  
TRACING TOOL POST**



轨迹追踪刀架，针对管径变形、椭圆管道加工  
Orbit-pursuit tool post, to process and adjust according to pipe diameter, ellipse pipe

**内坡口刀架  
INSIDE TOOL POST**



内坡口刀架，完成管道内壁坡口加工  
Inside tool post, to process inside beveling

**钻铣镗复合加工刀架  
DRILLING, MILLING, BORING  
MACHINING TOOL POST**



针对封闭的压力容器及蒸汽发生器  
To process Closure of pressure vessels and steam generator

**桥式多功能刀架  
BRIDGE MULTI FUNCTIONAL  
TOOL POST**



法兰，端面加工，车槽，钻孔  
To process Flange facing, slots and holes

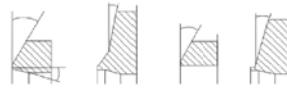
- 可选配件，订购前申明，价格另议  
Accessories optional, please inform us before purchase, price negotiable

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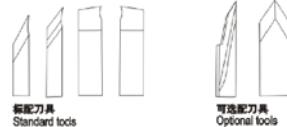
**外部安装式  
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**PIPE CUTTING AND  
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**坡口类型  
BEVELLING TYPES**



- 如需加工其他角度坡口，或加工合金钢、铸钢，请订购前申明。  
Machine other bevel angles or alloy steel, cast steel, please declare before purchase order.

**刀具/TOOLS**



- 随机标配刀具(高速工具钢, 可加工管子厚度<25mm) 如需选配其他规格、尺寸的刀具, 请购买前申明。  
Standard tools attached (High speed steel, wall thickness < 25mm), If customers need other degrees cutting tools or wall thickness > 25mm, please inform us before purchase.

**HYO系列  
外卡式法兰端面镗削机  
HYO-O.D. MOUNTED  
FLANGE FACING MACHINE**

**产品特点**

本系列产品针对长距离管道施工和法兰加工而研发，外卡式的法兰面镗削加工设备，拥有独立知识产权。外卡定位安装，结构支撑度高，满足大切削量加工需求，结构紧凑，尺寸小，重量轻，便于携带，操作简单，效率高。适用于加工直槽、斜槽以及各种法兰面加工，如盲法兰、换热器管板法兰。

**产品性能**

刀架可在360度范围内调整角度，使用范围广；  
横、纵刀架、进刀手轮带刻度显示，调节准确方便；  
刀具在轴向、径向均可实现自动进给，保证加工精度；  
液压驱动，转速可调，动力强劲，满足不同客户加工要求；  
粗加工最大削深量1.5mm；  
可选气动马达驱动，适于防爆现场加工；

**FEATURES**

This machine is researched and manufactured according to the operation of long-distance pipeline and flange. We have independent intellectual property. Outside calipers are fixed in proper position, high stiffness of structural support, fulfill the wide cutting range, easy operation, high efficiency. It can process chute/flume/sealing surface and blank flange, tube-plate of heat exchange.

**PERFORMANCE**

Swivel Tool post with 360° power feed, wide range use.  
Feed handwheel of horizontal and vertical tool post with scale, precise and convenient regulation.  
Tool post can feed automatically in both axial and radial, processed precision is guaranteed.  
Adjustable hydraulic drive motor, adjustable speed, strong power, meets different requirements of customers.  
Maximum depth of roughing processing is 1.5mm.  
Pneumatic motor is optional, used for prof-explosion on-site operation.



**专利号：  
ZL20093016773.2**  
**PATENT NO:  
ZL20093016773.2**

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**HYO系列  
外卡式法兰端面镗削机**  
**HYO-O.D. MOUNTED  
FLANGE FACING MACHINE**

**WORKING CAPACITY 加工能力:**

型号 Model	加工范围 Working Range(O.D.mm)	夹持范围 Clamp range(O.D.mm)	刀盘转速 Rotating rate(rpm)
HYO-600	Φ150-600	Φ450-600	Adjustable
HYO-1050	Φ650-1050	Φ900-1050	Adjustable
HYO-1500	Φ1050-1500	Φ1300-1500	Adjustable
HYO-2300	Φ1800-2300	Φ2100-2300	Adjustable

● 可依照客户要求设计制造

Note: We can design and manufacture according to the customers' requirement.

**全方位刀架  
ALL POSITION TOOL POST**



**防滑夹块  
PROOF-SLIP FIXTURE BLOCK**



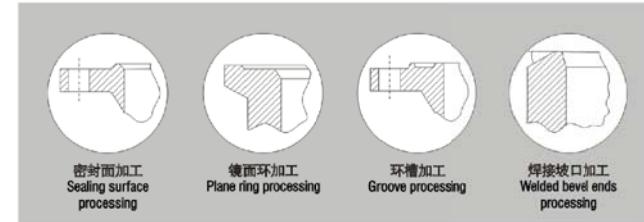
**TECHNICAL PARAMETER**

额定压力: P=20MPa  
额定流量: Q=25L/min  
液压马达转速: N=160/r/min  
输出扭矩: M=320N. M  
电机功率: N=7.5KW  
电机转速: N=1450r/min  
可调速范围: 0-30r/min

**液压马达技术参数:**

Rated Pressure: P=20MPa  
Rated flux: Q=25L/min  
Hydraulic Motor: N=160/r/min  
Output torque: M=320N. M  
Electric Motor Power: N=7.5KW  
Electric Motor Rate: N=1450r/min  
Timing range: 0-30r/min

**典型应用/APPLICATION**



**现场加工/ON-SITE PROCESS**



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## HYM系列 便携式钻铣镗复合加工机

### HYM PORTABLE DRILLING- MILLING-BORING MULTIFUNCTIONAL MACHINE



#### 产品特点

本系列产品针对封闭的压力容器、蒸汽发生器和特殊管材的加工、维修而研制，外卡定位安装，可配钻、铣、镗等多种加工刀架，满足大切割量加工需求。其结构紧凑，尺寸小，重量轻，便于携带，操作简单，效率高，适用于现场施工，抢修。

#### 产品性能

钻、铣、镗多种加工方法  
刀架可360度范围内调整，使用范围广；  
刀具在轴向、径向均可实现自动进给，保证加工精度；  
液压驱动，转速可调，动力强劲，满足不同客户加工要求；  
可选气动马达驱动，适于防爆现场加工；

#### FEATURES

This machine is researched and manufactured according to the machining of pressure vessels, steam generators and special tubes, outside calipers is fixed in proper position, selectable tool post of drilling, milling and boring for large cutting capacity. High stiffness of structural support, small dimensions, light weight, fulfill the wide cutting range, easy operation, high efficiency, especially for site processing.

#### PERFORMANCE

Drilling, milling and boring, multiple processing methods.  
Swivel Tool post with 360 power feed, wide range use. Tool bits can feed automatically in both axial and radial, processed precision is guaranteed.  
Adjustable hydraulic drive motor, adjustable speed, strong power, meets different requirements of customers.  
Pneumatic motor is optional, used for proof-explosion on-site operation.



#### 专利号/PATENT NO:

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201220232279.2  
201220231698.4



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#### WORKING CAPACITY 加工能力：

型号 Model	装夹范围 Clamp range(O.D.mm)	刀盘转速 Rotating rate(rpm)
HYM-750	Φ600-750	Adjustable
HYM-1050	Φ850-1050	Adjustable
HYM-1500	Φ1300-1500	Adjustable
HYM-2300	Φ2100-2300	Adjustable

● 可依照客户要求设计制造

Note: We can design and manufacture according to the customers' requirement.

#### TECHNICAL PARAMETER

Rated Pressure: P=16Mpa  
Rated flux: Q=25L/min  
Hydraulic Motor: N=200r/min  
Output torque: M=260N. M.  
Electric Motor Power: N=5KW  
Electric Motor Rate: N=1450r/min  
Timing range: 0-30r/min

#### 液压马达技术参数：

额定压力: P=20Mpa  
额定流量: Q=25L/min  
液压马达转速: N=160r/min  
输出扭矩: M=320N. M.  
电机功率: N=7.5KW  
电机转速: N=1450r/min  
可调速范围: 0-30r/min

钻铣镗复合加工刀架  
DRILLING, MILLING, BORING  
MACHINING TOOL POST



现场加工  
ON-SITE PROCESS



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**内涨式 管子坡口机系列**  
**PIPE BEVELLING MACHINE SERIES OF INNER**

**应用范围**

广泛应用于石油、化工、天然气、食品、锅炉、制药、核电，场管建设等行业管道安装工程及抢修作业。

**APPLICATION RANGE**

They are widely used in the fields of petroleum, chemical, natural gas, power supply construction, boiler and nuclear power, such as the project of West Gas Transporting to East China.

**产品特点**

胀紧机构插于管子内径，可自动定位对中，安装快速、简便。

适用于各种等级的碳钢、不锈钢、合金钢等材料管子的U、V型焊缝的坡口、倒棱、削边等加工，还可以对焊后的凸面法兰和平面法兰进行切削坡口加工。

自动进刀机构设计，操作简便，切削量可微调，坡口角度 $0^\circ$  ~  $45^\circ$  任意选择。

完全的冷切割，不影响管子材质。

按结构类型分为：T型、Y型、和 II 型

**FEATURES**

Easy to mount quickly, the swelling mechanism inserted into pipe inner, can automatically locate and center itself.

The machine can not only process the U,V shape of pipe beveling, and used for carbon steels, stainless steels and alloyed steel pipes, but also can treat the welded convex flange and plain flange.

Automatically feed mechanism, easy to operate, the cutting quantity can be adjusted and beveling angle can be adjusted from 0 degree to 45degree.

Cold cutting process will not influence the quality of the material of the pipe.

Sorted by the construction: T-model, Y-model and II - model



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**T型-内涨式  
管子坡口机  
T- PIPE BEVELLING  
MACHINE**

**产品特点**

整机采用“T”字形的结构设计，操作简便，重量轻，便于携带，使用安全可靠。

**驱动方式**

电动式：采用高性能碳刷电机驱动，电压220V，频率50-60Hz，功率0.5-2.5KW；

气动式：采用气动马达驱动，空气工作压力0.6-1.5MPa，耗气量650-1500L/min；适用于易燃、易爆等危险性作业场所。

**FEATURES**

The machine adopts “T” shape construction design, convenient operation, light weight, easy to carry, safe use.

**DRIVEN TYPE**

**Electric Model:** adopts high-performance carbon brush motor to drive, Voltage: 220V, Frequency: 50-60Hz, Power: 0.5-2.5KW;

**Pneumatic Model:** Adopts pneumatic motor to drive; Air working pressure: 0.6-1.5Mpa. Air consuming flux 650-1500L/min. It can be used for inflammable and dangerous operation places.

**专利号/ PATENT NO:**

ZL200320127316.4

ZL200530005895.X

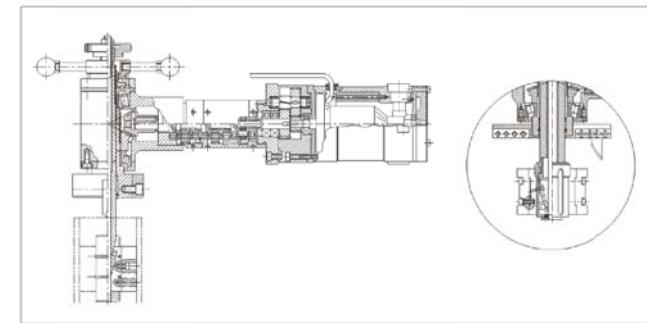
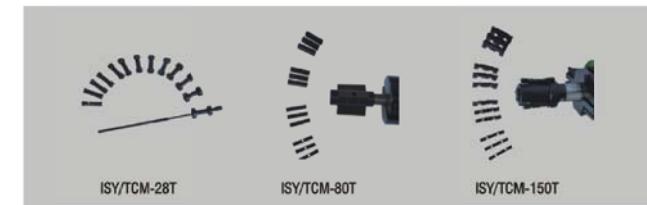
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TCM-150T



**涨紧夹具 / TYPES OF TOOLS ATTACHED**



ISY-80T

TCM-28T



**T型-内涨式  
管子坡口机  
T- PIPE BEVELLING  
MACHINE**

**产品特点**

整机采用“T”字形的结构设计，操作简便，重量轻，便于携带，使用安全可靠。

**自动夹紧装置  
AUTOMATIC CLAMP MECHANISM**



**FEATURES**

The machine adopts “T” shape construction design, convenient operation, light weight, easy to carry, safe use.

**现场加工  
ON-SITE PROCESS**



SDC-120T



**技术参数 / TECHNICAL PARAMETER**

电动 Electric	气动 Pneumatic	加工范围 Working range(I.D. mm)	坡口壁厚 Wall thickness (mm)	刀盘转速 Rotating rate (rpm)
ISY-28T	TCM-28T	Φ16-28	< 8	58
ISY-80T	TCM-80T	Φ28-76	< 15	55
SDC-120T	TCM-120T	Φ45-93	< 15	42
SDC-150T	TCM-150T	Φ65-159	< 20	34
SDC-350T	TCM-350T	Φ150-330	< 20	16

**标配刀具  
STANDARD TOOLS**



0° 平口刀 30° 坡口刀 37° 坡口刀 15° 内坡口刀  
0° Cutting Tool 30° Beveling Tool 37° Beveling Tool 15° Inside Beveling Tool

● 配套加工其他角度坡口，或加工合金钢、铸钢。  
请订购前申明。

● Machine other bevel angles or alloy steel, cast steel, please declare  
before purchase order



# Y型-内涨式 管子坡口机

## Y- PIPE BEVELLING MACHINE

### 产品特点

整机采用“Y”字形的结构设计，径向空间小，重量轻，便于携带，使用安全可靠。

### 驱动方式

**电动式：**采用高性能碳刷电机驱动，电压220V，频率50-60Hz,功率0.5-2.5KW；

**气动式：**采用气动马达驱动，空气工作压力0.6-1.5MPa，耗气量1000-1500L/min；适用于易燃、易爆等危险性作业场所。

### 专利号/PATENT NO:

ZL200430081797.X

ZL200430081800.8

ZL200420091374.0



### FEATURES

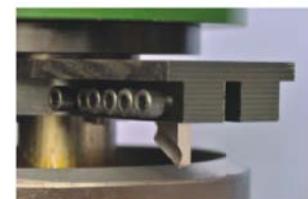
The machine adopts “Y” shape construction design, minimal radial space, light weight, easy to carry, safe use.

### DRIVEN TYPE

**Electric Model:** adopts high-performance carbon brush motor to drive, Voltage: 220V, Frequency: 50-60Hz, Power:0.5-2.5KW;

**Pneumatic Model:** adopts pneumatic motor to drive, Air working pressure: 0.6-1.5Mpa. Air consuming flux 1000-1500L/min. It can be used for inflammable and dangerous operation places.

### 现场加工/ON-SITE PROCESS

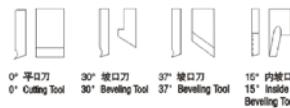


NEW

ISY-150

CE

### 标配刀具 STANDARD TOOLS



- 0° 平口刀 0° Cutting Tool
- 30° 坡口刀 30° Beveling Tool
- 37° 坡口刀 37° Beveling Tool
- 16° 内坡口刀 16° Inside Beveling Tool

● 如需加工其他角度坡口，或加工合金钢、铸钢，请订购非标明

● Machine other bevel angles or alloy steel, cast steel, please declare before purchase order

### 技术参数/ TECHNICAL PARAMETER

电 动 Electric	气 动 Pneumatic	加工范围 Working range(I.D. mm)	坡口壁厚 Wall thickness (mm)	刀盘转速 Rotating rate (rpm)
ISY-150	TCM-150	Φ65-159	≤15	34
ISY-250	TCM-250	Φ80-240	≤15	16
ISY-351	TCM-351	Φ150-330	≤15	14
ISY-630	TCM-630	Φ300-600	≤15	10
ISY-850	TCM-850	Φ600-820	≤15	8
ISY-1050	TCM-1050	Φ820-1020	≤15	7
ISY-1300	TCM-1300	Φ1015-1255	≤15	5
ISY-1500	TCM-1500	Φ1270-1470	≤15	4



TCM-250



ISY-351



ISY-630



ISY-250

CE

# II型-内涨式 管子坡口机

## II- PIPE BEVELLING MACHINE

### 产品特点

II型-内涨式管子坡口机采用自动走刀拖板机构设计，切削量可微调，坡口角度0° ~ 37° 范围内任意调节；适用于管子壁厚范围在15mm ~ 75mm的坡口加工场合，而且可对焊后的凸面法兰和平面法兰进行切削坡口加工。

### 驱动方式

**电动式：**采用高性能电机驱动，电压220V，频率50-60Hz, 功率1-2.5kW；

**气动式：**采用气动马达驱动，空气工作压力1-2.5MPa，耗气量1000-2000L/min，加工过程不产生火花；适用于易燃、易爆等危险性作业场所。

### 专利号/PATENT NO:

ZL200430081798.4

ZL200420104471.9

ZL200430081799.9

### FEATURES

This machine adopts automatically feed mechanism, easy to operate, the cutting quantity can be adjusted and beveling angel can be adjusted from 0 degree to 45 degree; It can be used for beveling the pipe wall thickness from 15mm~75mm, and used as flange facing tool.

### DRIVING TYPE

**Electric Model:** adopts high-performance motor to drive, Voltage: 220V, Frequency: 50-60Hz, Power:1-2.5kW;

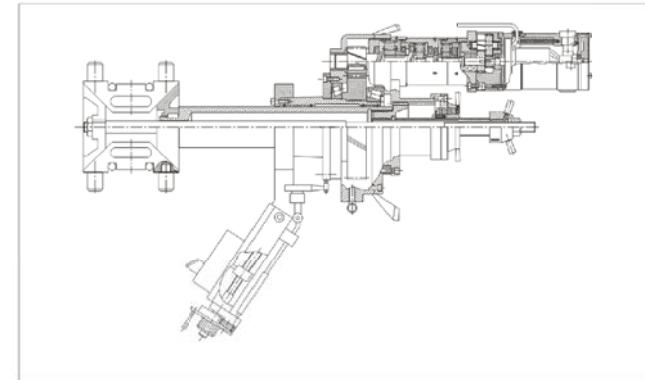
**Pneumatic Model:** adopts pneumatic motor to drive, Air working pressure: 1-2.5Mpa. Air consuming flux 1000-2000L/min. It can be used for inflammable and dangerous operation places.

### 刀具/ TOOLS



### 技术参数/ TECHNICAL PARAMETER

电动 Electric	气动 Pneumatic	加工范围 Working range(I.D. mm)	坡口壁厚 Wall thickness (mm)	刀盘转速 Rotating rate (rpm)
ISY-250-II	TCM-250-II	Φ 85-240	≤75	16
ISY-351-II	TCM-351-II	Φ 150-330	≤75	14
ISY-630-II	TCM-630-II	Φ 300-600	≤75	10
ISY-850-II	TCM-850-II	Φ 600-820	≤75	8
ISY-1050-II	TCM-1050-II	Φ 820-1020	≤75	7
ISY-1300-II	TCM-1300-II	Φ 1015-1255	≤75	5
ISY-1500-II	TCM-1500-II	Φ 1270-1470	≤75	4



## HYI-II系列内涨式 法兰端面镗削机

### HYI-II INNER MOUNTED FLANGE FACING MACHINE



#### FEATURES

This machine is designed for the long-distance pipe and flange facing operation. It is a comprehensive range of precision machine with independent patent that meets various industries requirements. This machine is an internally mounted machine with a durable construction. This machine has a unique power feed long series tool post.

#### 产品性能

简单而牢固的内涨式安装，可加工管道或各类法兰直径范围:50~2000mm;  
在线安装，同心度、平面度易于调节，高刚性支撑，保证加工精度；  
进刀座360度可调，满足各类法兰加工，如八角垫环、槽加工；  
轴向、径向进刀均可自由调整、控制；  
液压、气动驱动，使用范围更广泛。

#### PERFORMANCE

Inside mounted machine with a durable construction and cover easy set-up on site and quick adjust concentricity ,  
cover machining sizes range from 200mm up to 3000mm or more.  
high rigid support frame to assure precision;  
360 degree power feed tool post for all types of flange facing, groove machining.  
The axial-radial feed unit of tool post is adjusted  
Hydraulic or pneumatic drive, wide use range



#### 产品特点

本系列产品针对长距离管道施工和法兰加工而研发，拥有独立知识产权。采用大功率低速大扭矩液压马达驱动，确保走刀平稳，可连续作业；加长型刀架动力进给，切削量极大，进刀量可调；涨紧机构采用液压系统控制，自动对心，快速牢靠安装于法兰或管道内壁；整个系统设计充分考虑了现场的环境和条件，选择了独特的切削理念，并采用先进技术合理设计液压系统回路。

#### 专利号/PATENT NO:

200920193062.3

#### 加工能力/ WORKING CAPACITY:

型号 Model	加工范围 Working range (O.D.mm)	刀盘转速 Rotating rate(rpm)
HYI-600-II	Φ 200-600	Adjustable
HYI-1200-II	Φ 600-1200	Adjustable
HYI-2000-II	Φ 1200-2400	Adjustable
HYI-3000-II	Φ 1800-2300	Adjustable

● 非标产品可依据客户要求设计制造。

Note: Non-standard machines are available according to customers' requirement.

#### 现场加工/ ON-SITE PROCESS



#### TECHNICAL PARAMETER:

Rated Pressure: P=20Mpa  
Rated flux: Q=25L/min  
Hydraulic Motor: N=160r/min  
Output torque: M=320N.M.  
Electric Motor Power: N=7.5KW  
Electric Motor Rate: N=1450r/min  
Timing range: 0-30r/min

#### 液压马达技术参数:

额定压力: P=20Mpa  
额定流量: Q=25L/min  
液压马达转速: N=160r/min  
输出扭矩: M=320N.M.  
电机功率: N=7.5KW  
电机转速: N=1450r/min  
可调速范围: 0-30r/min



## SKF-18D

### 自动行进式数控倒角机

## SKF-18D

### PORTABLE, SELF-PROPELLED PLATE EDGE BEVELLERS

#### 产品简介

SKF-18D自动行进式数控倒角机是一台轻便灵活的生产型设备，可对各种等级钢板加工出均匀、整洁、无热无变形的坡口，使其满足K、V、X和Y型的焊接接头的需要，适用于板厚6.0-38.1mm的碳钢，低合金高强度钢，不锈钢和铝合金等金属板材的倒角、坡口加工。

SKF-18U加工板材下沿。坡口特点：消除繁重的翻转工序，节省时间和成本。

如板材需进行双边坡口，可以采用以上两种坡口机一起工作，节省更多。

#### 专利号:/ PATENT NO:

ZL200720303417.0



SKF-18D



#### BRIEF OF PRODUCTS

Plate Edge Bevelers produce clean machined bevels with no thermal distortion on mild steel, stainless steel and aluminum plate from 1/4" (6.0 mm) to 11/2" (38.1 mm) thick. Thinner material can be beveled. consult factory for details.

The SKF-18U bevels the underside of plate eliminating the need to flip the work piece...reducing time and cost. Savings are further enhanced when both units are used in applications where both sides of the material require beveling.

#### FEATURES

This machine adopts servo motors to drive, PLC control system, steady operation at a low speed, stepless speed regulation, and dolly base, automatic feed along the edge of armor plate, adjustable height, can be used for beveling of big sheet materials.

Machine body fixed facilitates for beveling of small sheets.

Cold beveling, free deformation of sheet materials, guarantee the quality of welding.

Angle of machine head can be adjusted, the angles of beveling: from 22.5° to 55°

#### 产品特点

采用大功率伺服电机驱动，数字化控制系统，实现低速平稳运行，无级变速；

小车式底座，可沿钢板边缘自动行进，高度自由调节，满足大型板材倒角加工；

主机固定，便于较小板材倒角加工；

完全冷加工，不会引起板材金相变化，确保焊接质量；

机头角度可调节，加工坡口角度范围22.5° 到 55°；



#### 加工能力/ WORKING CAPACITY:

坡口角度 Beveling angle	抗拉强度 Tensile strength			
	64,000 lbs/in <sup>2</sup> (45 kg/mm <sup>2</sup> )	71,000 lbs/in <sup>2</sup> (50 kg/mm <sup>2</sup> )	85,000 lbs/in <sup>2</sup> (60 kg/mm <sup>2</sup> )	D
22.5°	0.71 ° [18.0mm]	0.65 ° [16.0mm]	0.63 ° [14.0mm]	0.58 ° [14.0mm]
30°	0.71 ° [18.0mm]	0.61 ° [16.0mm]	0.63 ° [14.0mm]	0.55 ° [14.0mm]
37.5°	0.67 ° [17.0mm]	0.53 ° [15.0mm]	0.59 ° [15.0mm]	0.47 ° [11.0mm]
45°	0.63 ° [16.0mm]	0.45 ° [11.0mm]	0.55 ° [14.0mm]	0.39 ° [9.0mm]
55°	0.59 ° [15.0mm]	0.34 ° [9.0mm]	0.51 ° [13.0mm]	0.29 ° [7.5mm]
				0.43 ° [11.0mm]
				0.25 ° [8.0mm]

● 标配五种不同角度调节销: 22.5° , 30° , 37.5° , 45° 和55° 如选择其他角度调节销, 请购前申明参数变化, 如未及时通知, 请谅解。

Adjustment pin of five degrees 22.5° , 30° , 37.5° , 45° to 55° If the customers need adjustment of other angle, please inform us before purchase. Specifications are subject to change without notice

#### 技术参数

伺服电机: 2.3KW, 220V, 50~60Hz;

最大扭矩45N.M.

最大坡口宽度: 0.71" [18.0 mm], (以30° 坡口为例);

最大坡口深度: 0.61" [15.6 mm], (以30° 坡口为例);

加工速度: 3m/min, (倒角深度和材质的不同, 可按需要进行调速)

最小板厚: 6.0mm; 最大板厚: 38.1mm (如需加工更薄或者更厚的板材, 请咨询技术代表)

#### 角度调节/ Angle Adjustment



#### 自动进给/Automatic Feeding



#### 中齿刀盘/ Mid-gear Cutter Head



# SKF-15平板倒角机

## SKF-15 PLATE BEVEL MILLING MACHINE

### 产品简介

本机专为板材坡口、倒角而设计，是一台手工推进式坡口加工工具。适用于各种焊接前对金属板材进行倒角、坡口加工。其重量轻（和同类产品相比较而言），震动小，操作简便，使用安全可靠。

### 产品特点

倒角表面光滑、平整的、无氧化层的，便于焊接；  
满足K、V、X和Y型的焊接接头的需要；  
适用于钢材、铸铁、硬质塑料、并可对铬钢和其他高强度材料进行加工；

### 专利号/PATENT NO:

ZL200530106371.X



CE

### BRIEF OF PRODUCTS

This machine is a handy and flexible unit for the preparation of welding, beveling, deburring of materials, low weight (compared with our other similar machines) enables the use at almost every work place and a rattling-free, steady milling operation. The handling and operation is easy and safe. The machine is suitable for milling steel, VA, cast iron and nonferrous heavy metal by one-hand operation.

### FEATURES

Smooth and flat beveling face, layer of oxide, facilitate for welding.  
Meet the need of K, V, X and Y types of welding joint.  
Suitable for milling steel, VA, cast iron and nonferrous heavy metal by one-hand operation.



### 双蝶形刀盘 / Double Cutter Head



### 角度刻度 / Angle Index



### 厚度刻度 / Thickness Index



### 刀具 / Tools



选配国际知名品牌刀具

Tools of international famous brand

### 管道夹具 / Pipeline Clamp



选配管道夹具可加工管道，管内径必须大于160 mm；

Pipe clamp optional for process pipeline, ID of Pipe must be more than 160mm

### 钢板倒角 / Plate bevel



可加工平板或弯曲的工作，中凹线最小半径为55 mm；

Can process flat panel bended work piece, min radius of middle concave line: 55mm

### 技术参数

最大刀刃切削宽度: 15mm ( 可调 ) 。  
倒角角度: 30° -60° ( 可调 ) 。  
重量: 18KG  
标配西门子电机;  
电压380V, 频率50Hz, 功率1.1KW;  
转速: 2870转/分钟

### TECHNICAL PARAMETER:

Land width: 15mm Max. Progressively adjustable  
Bevel angle: 30° -60° progressively adjustable  
Weight: 18kg  
Motor: SIEMENS 380V, 50Hz, 1.1KW  
Rotation speed: 2870rpm

CE

# C型-外卡式 管子端面坡口机

## C- NARROW DESIGN PIPE BEVELING MACHINE

### 产品特点

本系列产品针对工作空间狭窄，小管径管道端面坡口设计，管子外卡夹紧安装，适用于水冷壁、过热器、再热器、省煤器、锅炉、火燃电厂等专业型设备的管道坡口加工以及现场检修，满足管道维修现场工作空间狭小，检修批量大等加工要求。

### 产品性能

精选优质刀片，可加工各种等级碳钢、合金钢、不锈钢以及其他材质金属管。

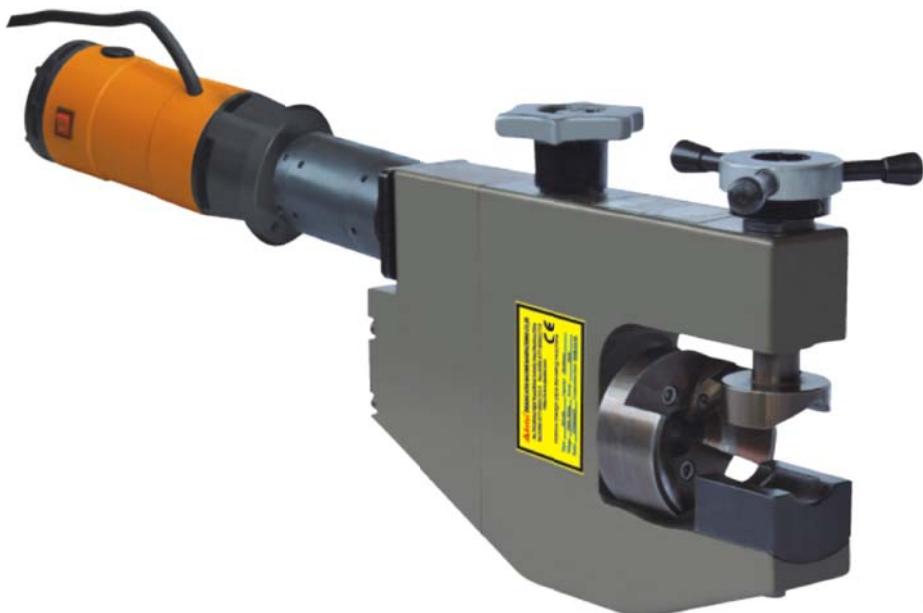
采用外卡定位安装，简明轻巧，定心精确，装夹稳定，使用方便。  
电动和气动两种驱动可选，使用范围更广。

### 驱动方式

电动式：电压220V，频率50-60Hz，功率1.10KW；  
气动式：空气工作压力0.8-1.5MPa，耗气量1000-1500L/min；

### 专利号/PATENT NO:

201230008929.0



### FEATURES

This machine is designed for pipe end beveling of small diameter, pipe out-mounted compact installation. It is used in pipe end beveling process of professional equipments and on-site overhaul, e.g. water cooled wall, overheatet, reheatet, fuel economizer, boiler and fire thermo electricity, etc. It meets the requirement of process: narrow space of on-site repair and large scale of repairing.

### PERFORMANCE

High-quality beveling tool which can process different grades of carbon steels, alloyed steels, stainless steels, and other materials of metal pipes.

An outside caliper is fixed in proper position, simple and light, precise centering, steady mount and convenient operation.

Both electric and pneumatic drive optional, used for inflammable and dangerous operation places.

### DRIVING TYPE

Electric model: Voltage 220V, Frequency 50-60Hz, Power 1.10KW.

Pneumatic model: Air working pressure 0.8-1.5Mpa, air consuming flux 1000-1500L/min.

### 坡口类型/TYPES OF GROOVES

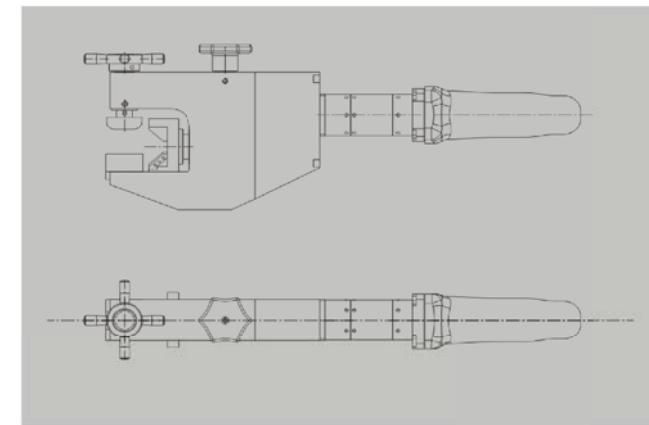


● 如需加工其他角度坡口，或加工合金钢、铸钢，请订购前申明

Machine other bevel angles or alloy steel, cast steel, please declare before purchase order

### 技术参数/ TECHNICAL PARAMETER

电动 Electric	气动 Pneumatic	加工范围 Working range(O.D. Mm)	坡口壁厚 Wall thickness (mm)	刀盘转速 Rotating rate (rpm)
ISC-53	TSC-53	Φ 8-53	≤8	42-66
ISC-63	TSC-63	Φ 28-63	≤12	42-66
ISC-73	TSC-73	Φ 25-73	≤12	42-66
ISC-83	TSC-83	Φ 30-83	≤12	42-66
ISC-108	TSC-108	Φ 50-108	≤12	42-66



### 刀具 STANDARD TOOLS



## C-II型-外卡式 管子端面自动坡口机

### C-II AUTOMATIC FEED PIPE BEVELING MACHINE

#### 产品特点

C型-外卡式管子端面坡口机的改进型产品，结构更紧凑，更轻便；  
机械式自动进刀，无须手动调节；  
针对工作空间狭窄，小管径管道端面坡口设计，管子外卡加紧安装，使用更方便。

专利号/PATENT NO:  
201230008927.1

#### 技术参数/ TECHNICAL PARAMETER

电动 Electric	气动 Pneumatic	加工范围 Working range(O.D. Mm)	坡口壁厚 Wall thickness (mm)	刀盘转速 Rotating rate (rpm)
ISC-76-II	No	Φ25-76	≤12	0~285

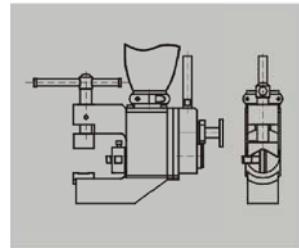
NEW



CE

#### FEATURES

The second generation product of C-Narrow Design Pipe Beveling Machine, more compact structure, more portable;  
Feeding mechanically and automatically, adjusting itself; Especially for beveling of small pipes in narrow space site, cut-mounted installation, more convenient in using.



#### 现场加工/ ON-SITE PROCESS



## CNP系列 数控高速管道坡口机

### CNP NUMERICAL CONTROL HIGH-SPEED PIPE BEVELING MACHINE

#### 产品特点

本系列产品是一种采用特殊刀具对管端进行面接触加工的新型坡口机，能够对管子端面进行快速又简便的坡口加工。

采用液压驱动的自动对中加紧装置，在针对不同直径的管子进行加紧时可以安全自行对中，省时省力；

独特的刀盘、刀座及刀具设计，考虑到人与机器和环境所有因素，使得操作人员可以简单的使用，更加高效的完成工作。

本机除对碳钢、不锈钢、合金钢等材料管子的U、V型焊缝的坡口、倒棱、削边等加工外，并能对焊后的凸面法兰和平面法兰进行加工，坡口质量好，速度快，操作简单。

#### 技术参数:

动力马达: 380V 3P 7.5KW  
夹紧方式: 液压 + 手动  
加工刀片: 专用刀片  
最大坡口厚度: 单道操作20mm、多道操作无限制  
进给行程: 100 ~150mm  
转速: 4段分档调节，约为36、48、72、96rpm  
冷却液与液压泵: 均内置

#### WORKING CAPACITY/ 加工能力:

型号 Model	加工范围 Working Range(I.D.mm)	切割坡口壁厚 Wall thickness (mm)	刀盘转速 Rotating rate(rpm)
CNP-426	Φ50-426	无限制/unlimited	Adjustable
CNP-930	Φ200-930	无限制/unlimited	Adjustable
CNP-1240	Φ450-1240	无限制/unlimited	Adjustable



## OSE/OSK系列

### 锯片式管子切割机

### OSE/OSK-ORBITAL PIPE CUTTING MACHINE

#### 产品特点

本系列产品是轻便型锯片式管子切割机设备。采用自动夹紧装置，多点夹紧管子，薄壁管也不会产生变形。操作简便，空间小。配置优质锯片式旋转刀头，切断管子，高速度，无毛刺，不变形，切口绝对垂直。广泛应用于各类不锈钢管焊接前的切割与坡口加工，如食品、制药、日化、半导体光电、生物、化工、油气、水处理、造船、电力等行业。

#### 产品性能

- 快速更换刀片；
- 一次性切割管子快速简便；
- 紧凑设计，所需空间小；
- 完全冷切割，不影响材质；
- 免变形夹紧装置，快速夹紧管子；
- 自动进给，无须手动操作；
- 伺服电机驱动，平稳高效；
- 可安装坡口锯片同时对管子进行坡口加工；
- 可加工材质：碳钢、合金钢、不锈钢、有色金属、工程塑料、铸钢等；

#### FEATURES

This machine is effective, ideal and reliable solution to precisely square cut and bevel for all types of metal pipes/tubes. All saw-blades pipe cutters with precise, square and clean cut, which save any additional preparation work on the cut-off face for orbital welding. Its automatic deformation-free clamping system avoids pipe deformation. The cut/beveled pipe is free from burr and deformation because of high quality saw blades. It is the best choice for direct S.S pipe welding on catering, pharmacy, Semiconductor Optoelectronics, Biology, chemical industry, oil & gas, Water Treatment, shipbuilding, Electric Power Industry, etc. It also can be efficient, precision cut and bevel at the same time.

#### PERFORMANCE

- Swiftly change saw blade
- Just a few seconds to finish the cut with one single rotation around the pipe
- Compact design; small space.
- Cold cutting process will not influence the quality of the material of the pipes
- Free-deformation clamp mechanism, swift clamp pipe
- Automatic feed, no manual operation, the servo motor drive, smooth and efficient
- Beveling blade for pipe cutting and beveling simultaneously
- Can process material: carbon steel, alloy steel, stainless steel, non-ferrous metal
- Engineering plastic and cast steel

#### 专利号/ PATENT NO:

201230008951.5

NEW



CE

#### 技术参数/ TECHNICAL PARAMETER:

自动式 Automatic	手动式 Manual	加工范围 Working Range(I.D.mm)	壁厚 Wall thickness	刀片转速 Rotating rate(rpm)
OSK-120	OSE-120	Φ10-121	≤12	150~225
OSK-170	OSE-170	Φ20-170	≤12	150~225
OSK-220	OSE-220	Φ60-225	≤12	150~225
OSK-320	OSE-320	Φ140-330	≤12	150~225
OSK-420	OSE-420	Φ215-420	≤12	150~225
OSK-520	OSE-520	Φ315-520	≤12	150~225
OSK-620	OSE-620	Φ346-630	≤12	150~225
OSK-720	OSE-720	Φ486-760	≤12	150~225

● 管子托架不属该产品，如需另议  
Pipe carrier is not included, if necessary is negotiable.

#### 现场加工/ ON-SITE PROCESS



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**OSD系列  
台式管子切割坡口机**  
**OSD-TABLE  
PIPE CUTTING AND  
BEVELING MACHINE.**

**产品特点**

本系列产品是台式管子切割机坡口设备。采用自动夹紧装置，多点夹紧管子，薄壁管也不会产生变形。便捷的移动小车底座，适用于车间和野外现场作业。选配车刀式刀头加工辅具，对钢管进行高质量、高精度的切割坡口加工。广泛应用于各类管材的切割与坡口加工,如石油、化工、制药、日化、生物、化工、油气、水处理、造船、电力等行业。

**产品性能**

一次装夹，可同时实现切割、坡口加工；  
完全冷切割，不影响材质；  
单点操作，自动夹紧管子，快速便捷；  
免变形夹紧装置，薄壁管也不会产生变形；  
伺服电机驱动，平稳高效；  
可加工材质：碳钢、合金钢、不锈钢、有色金属、铸钢等；  
电动、气动马达驱动，使用范围更广泛。

**FEATURES**

The table pipe cutting and beveling machine, clamping the pipes automatically and all-wave, so the pipes will not be out of shape even very thin pipe. Convenient and moveable car seat is suitable for workshop working and on-site working all. Selectable turning tool can do high quality and high precision beveling of pipes. Used widely in pipe cutting and beveling area, such as oil & gas, chemical industry, pharmacy, daily chemical, biology, water treatment, shipbuilding, electric power industry, etc.

**PERFORMANCE**

Mounting in one time, can be sued for cutting and beveling;  
Cold cutting process will not influence the quality of the material of the pipes;  
Single point of operation, automatic clamp pipe, quickly and easily;  
Free-deformation clamp system, It would not have an deformation of thin pipe;  
Automatic feed, no manual operation.;  
Servo motor drive, smooth and efficient;  
Can process material: carbon steel, alloy steel, stainless steel, non-ferrous metal ,Engineering plastic and cast steel;  
Electric and Pneumatic motor to drive, wide use range.

**专利号 / PATENT NO:**

201230008951.5



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**技术参数/ TECHNICAL PARAMETER:**

电 动 Electric	气 动 Pneumatic	加工范围 Working Range(l.D.mm)	壁厚 Wall thickness	刀片转速 Rotating rate(rpm)
OSD-120	OSF-120	Φ10-121	≤12	adjustable
OSD-170	OSF-170	Φ20-170	≤12	adjustable
OSD-220	OSF-220	Φ70-220	≤12	adjustable
OSD-320	OSF-320	Φ170-320	≤12	adjustable
OSD-420	OSF-420	Φ270-420	≤12	adjustable
OSD-520	OSF-520	Φ370-520	≤12	adjustable
OSD-620	OSF-620	Φ470-620	≤12	adjustable
OSD-720	OSF-720	Φ570-720	≤12	adjustable

● 管子托架不属该产品，如需另议  
Pipe carrier is not included, If necessary is negotiable.

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