

## STANDARD SPLIT FRAME PIPE CUTTING AND BEVELING MACHINE

Range for 20-1240mm(1"-48") OD

### OVERVIEW

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.



### Features and Advantages

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

## CAPABILITY

- 1、 Pipe cut off
- 2、 Pipe end beveling
- 3、 Pipe facing
- 4、 Cutting and beveling
- 5、 Compound beveling
- 6、 Counterboring
- 7、 Flange facing
- 8、 Grooving

## SPECIFICATION

Model				Pipe Capacity		wall Thickness		Rotating
Electric	Pneumatic	NC	Hydraulic	mm	inch	mm		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

Above parameters just for reference only, not acceptance criteria

**POWER SUPPLIES**

**Electric:**

Convenient power supply, Stable Performance, Popular choice

Electric requirement: 220-240V 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

**Pneumatic:**

Explosion Proof, Stable Performance, Easy to maintenance

Air requirement: 1500-2000L/min @0.63-0.8Mpa

Power: 2HP, 3HP, 4HP

Double motor for big model or heavy duty



**NC:**

Powerful drive, High efficiency

Low noise, Stable Performance

Ideal for heavy wall thickness & large size pipe

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:**

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

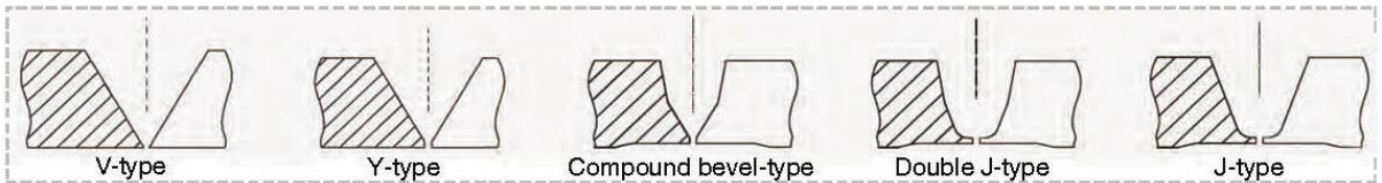
Rated Pressure: 13MPa

Rated flow: 28L/min

Max. Torque: 380NM



## BEVELING SHAPE



\*other beveling shape, angle and pipe material, please declare before order

## TOOLING

Form Style and Insert Style

HSS, HSS Co, Carbide

Make more tooling on demand

### Form Style

Material: M42 and M35

Type: Sever, bevel, double bevel, compound bevel, counterbore

Angle: 0°, 30°, 37.5°,

Double 30°, 37.5°+10°

Size:90mm,150mm,200mm

### Insert style

Material: Holder HSS ;

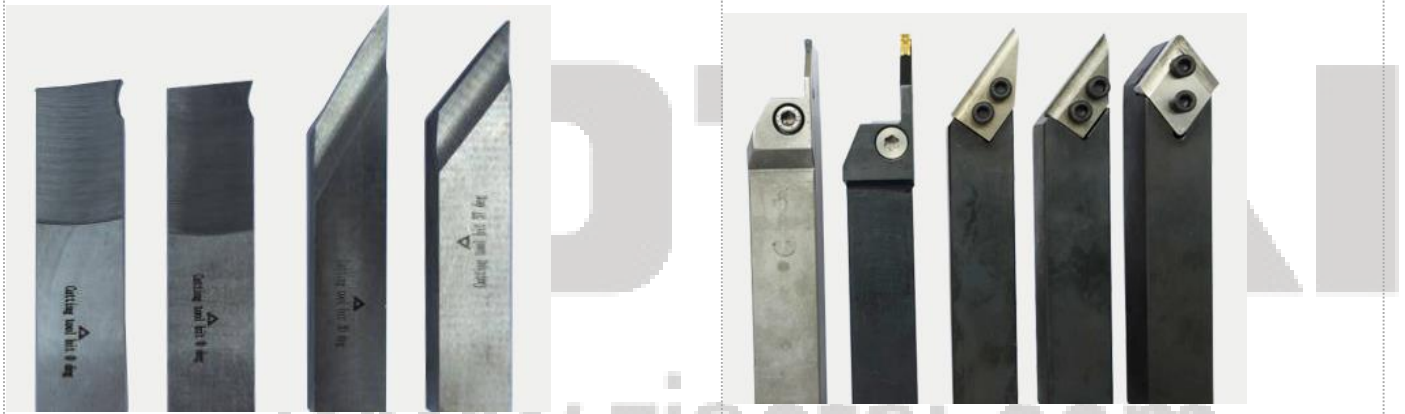
Insert: HSS-Co or Carbide

Type: Sever, bevel, double bevel, compound bevel,

Angle: 0°, 30°, 37.5°,

Double 30°, 37.5°+10°

Size: 90mm,150mm,200mm



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## TOOL SLIDE

More Practical, More Ways, More Solutions

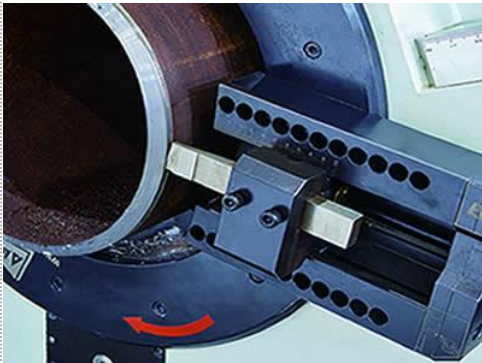
### Standard Tool Slide

Used for conventional pipe

Wall thickness of single point: 30mm

Wall thickness of multi point: 110mm

Radial travel: 154mm

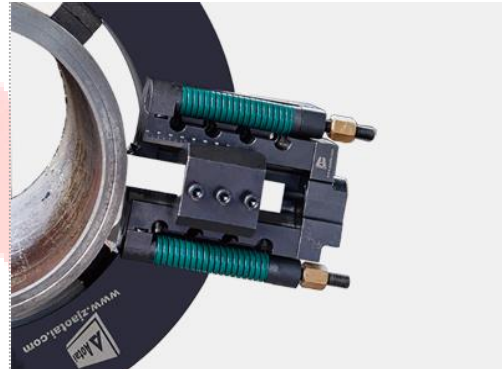


### OD Tacking Slide

Solution for out-of-round pipe

The max. wall thickness: 110mm

Radial travel: 110mm



### Counterbore slide

Used for pipe inside diameters.

Radial travel: 110mm

Axle travel: 100mm

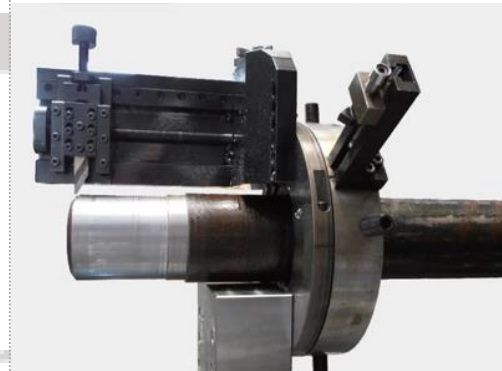


### Surface turning slide

Surface turning, removal anti-corrosion layer

Radial travel: 110mm

Axle travel: 200mm



### Drilling and Milling slide

Solution for problem of stress damage to the tool

Improve the cutting efficiency

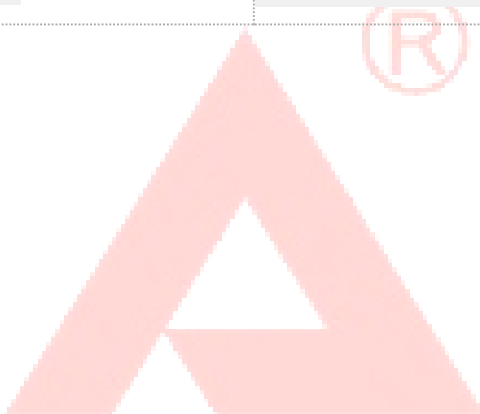
Improve the safety factor

### Bridge slide

Single point heavy wall machining

Flange facing

Counterboring



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