

## OD-Mounted Pipe Cutting and Beveling Machine

The series machine is ideal for all types of pipe cutting, beveling and end preparation. The split frame design allows the machine to split in half at the frame and mount around the OD of the in-line pipe or fittings for strong, stable clamping. The equipment performs precision in-line cut or simultaneous cut/bevel, single cut/bevel, single point, counterbore and flange facing operations, as well as weld end preparation on open ended pipe, Ranging from 3/4 to 56 inches O.D.(DN20-1400), on most wall thicknesses and material.



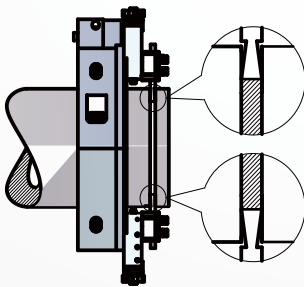
### Steel Body

Both Rotary ring and Stationary ring made by steel. This is the traditional China material. A little heavier for on-site machine. But rigidity is very good, idea for heavy walled pipe.

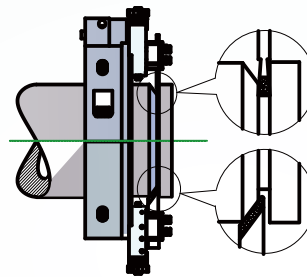


### Aluminum Body

This is our new machine, stationary ring made by aluminum. Steel where strength is needed, aluminum where strength is less critical than weight. Lightweight makes more convenient for operator.



cold cutting



cutting and beveling simultaneously

### Features

#### Split frame

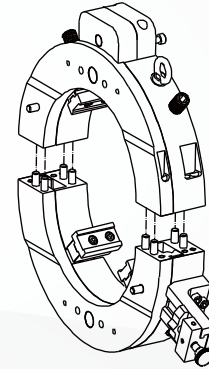
Machine quickly split to mount around outside diameter of in-line pipe

#### Cut or Cut/Bevel simultaneously

Cuts and bevels simultaneously leaving a clean precision prep ready for welding

#### Cold cut/Bevel

Hot torch cutting requires grinding and produces an undesirable heat affected zone  
Cold cutting/beveling improve safety



#### Low Axial & Radial Clearance

#### Tool feed automatically

#### Cut and bevel pipe of any wall thickness.

#### Materials include: Carbon steel, alloy, stainless steel as well as other material

#### Pneumatic, electric and hydraulic type for option

#### Machining OD of pipe from 3/4" upto 56"

### New improvement



1

Middle locking of rotation ring  
Previous the locking screw at the side  
The improved new ones, the locking screw in the middle,  
this make the locking more symmetry and stable.  
And the space for losing screw is bigger than before,  
when split the ring, more convenient.



2

Uncovered locking screw of stationary ring  
It's difficult to assemble the split frame on the pipeline  
when 2 locking screws at the side.  
The new uncovered design makes the installation easy  
and user friendly, especially when install the split frame  
on pipeline.

## Specification

Drive Options: Pneumatic, Hydraulic, and Electric  
Air requirement: 1500L-3000L Per minute @0.6/0.7Mpa  
Hydraulic requirement: 2-60L per minute @12.5Mpa  
Electric requirement: 220-240V 1PH 50/60HZ  
Feed mode: Star wheel, automatically  
Feed rate: Fixed@0.08mm per circle

### Air Type ODP Series

Air Motor Specification:  
Rotation Speed: 226 RPM  
Torque: 117 Nm  
Power: 3.77 HP  
Tested by Atlas Copco device @0.6Mpa  
compressed air

#### Advantage

Explosion Proof  
Stable Performance  
Simple structure makes easy to maintenance



### Electric Type ODE Series

Electric Motor Specification:  
METABO Motor  
Model: W24-230MVT  
230V- 50/60HZ 2400W 11,0A  
N 6600/Min (rpm)  
Made in Germany



### Hydraulic Type ODH Series

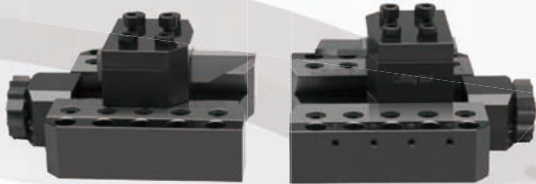
Power Supply: 380-440V 3PH 50/60HZ  
2-60L per minute @12.5Mpa

#### Advantage

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

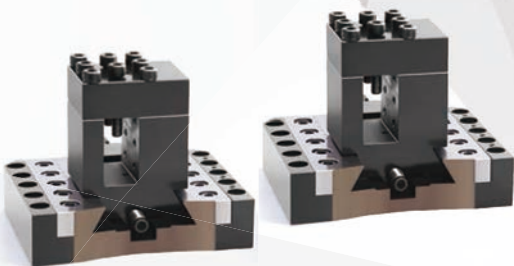


## Accessories



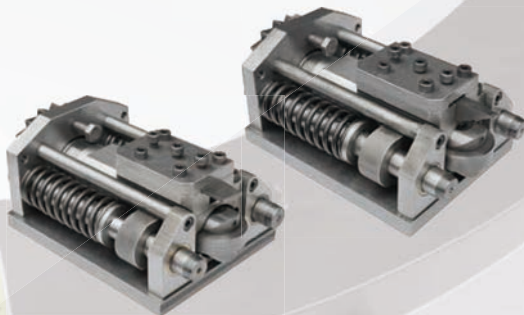
### Standard Tool Slide (Part No.: BZDB-02)

Clamshell c/w the standard tool slide as standard supply  
With standard tool bits, achieve cut/bevel upto 30mm wall thickness in one pass.



### Heavy Wall Tool Slide (Part No.:HDB-01)

Special for heavy walled pipe, especially for power plant  
With special tool bits, cut/bevel wall thickness have no limited in multi passes



### Tracking Tool Slide (Part No.:ZZDB-01)

O.D. tracking slide compensate for out-of-round pipe  
Travel along the O.D. makes the bevel face balanced  
Usually apply on large size diameter pipe



### Universal Counter Boring Tool Slide Part No.: TKDB-001

Performs inside beveling and Counter boring  
Tool Feed: Manually  
Max. Travel: 70mm

## Selection Guide

17 sizes machine for options.

Consult with us for special size.

For narrow working condition, pay attention to the axial and radial clearance.

Model	Working Range (OD)		Wall Thickness
	Inch	mm	
168	2 - 6	50-168	≤30
230	3 - 8	80-230	≤30
275	5 - 10	125-275	≤30
325	6 - 12	168-325	≤30
377	8 - 14	219-377	≤30
426	10 - 16	273-426	≤30
457	12 - 18	300-457	≤30
508	14 - 20	355-508	≤30
560	16 - 22	400-560	≤30
610	18 - 24	457-610	≤30
660	20 - 26	508-660	≤30
715	22 - 28	550-715	≤30
762	24 - 30	600-762	≤30
830	26 - 32	660-813	≤30
914	30 - 36	762-914	≤30
1066	36 - 42	914-1066	≤30
1230	42 - 48	1066-1230	≤30

\* Standard tool slide for cut/bevel up to 30mm

\* Consult with us for heavy wall pipe cut/bevel

## Order Guide

Before you place order to us, please let us know the following information:

Choose the right size

Advise us the driven options: Pneumatic, Electric or Hydraulic

Advise us steel body or aluminum body prefers

Confirm the beveling angel required

Confirm the welding joint required (U, V, Double V or Compound preparation)

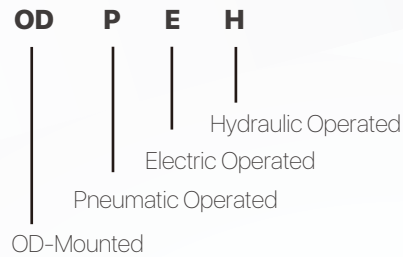
Advise your pipe material (Carbon steel, stainless steel or others)

Other special demands about machine

The spare parts needed

If the pipe wall thickness more than 30mm, inform us in advance (Important)

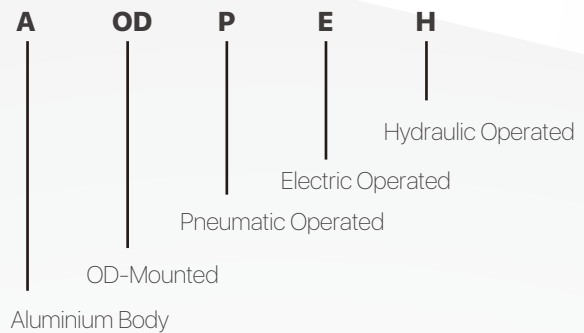
### Steel Body Series



Example:

ODP-168: Steel body, 2"-6" Pneumatic machine

### Aluminium Body Series

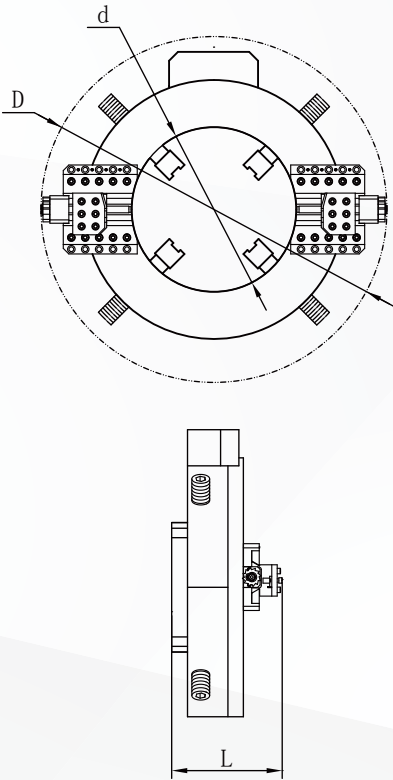


Example:

AODH-610: Alu. body, 18"-24" Hydraulic machine



## Axial & Radial Clearance



The split frame designed with compact cross section for low clearance applications. The clearance chart for evaluating the installation space where will install the machine in narrow space, most for pipeline maintain projects. With seventeen standard models available to find the suitable model.

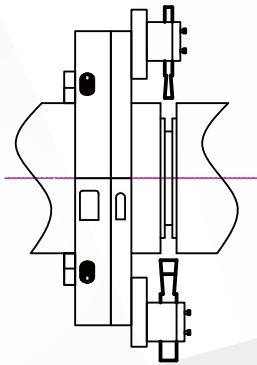
### Steel body

Model Size	d (mm)	D (mm)	L (mm)
168	185	512	178
230	236	564	178
275	283	612	178
325	334	665	178
377	386	719	178
426	438	776	180
457	469	807	180
508	519	862	190
560	570	910	190
610	618	960	190
660	670	1020	190
715	719	1084	190
762	770	1134	190
830	830	1194	192
914	924	1296	212
1066	1077	1468	212
1230	1248	1646	212

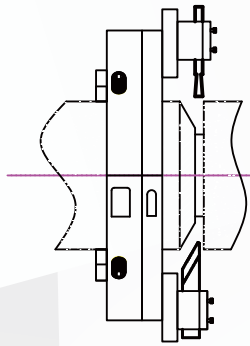
### Aluminum Body

Model Size	d (mm)	D (mm)	L (mm)
168	185	512	192
230	236	564	192
275	283	612	192
325	334	665	192
377	386	719	192
426	438	776	195
457	469	807	195
508	519	862	195
560	570	910	195
610	618	960	195
660	670	1020	195
715	719	1084	198
762	770	1134	198
830	830	1194	207
914	924	1296	214
1066	1077	1468	216
1230	1248	1646	216

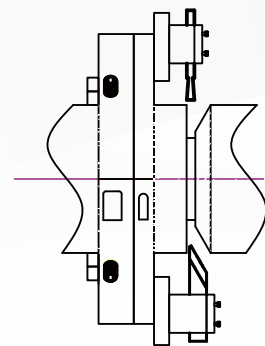
## Schematic View



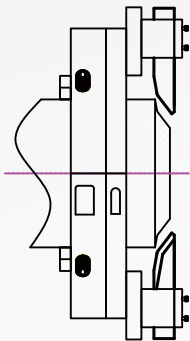
Cold Cutting



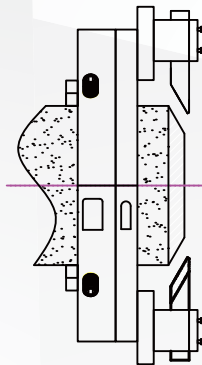
Cutting & Beveling (RH)



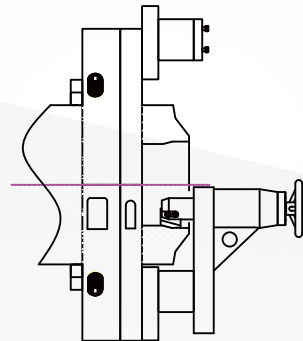
Cutting & Beveling (LH)



Compound Beveling ASME B16.[1].25



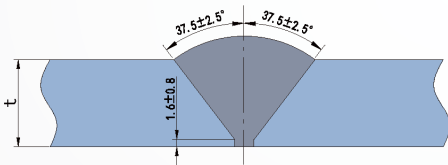
Double Beveling



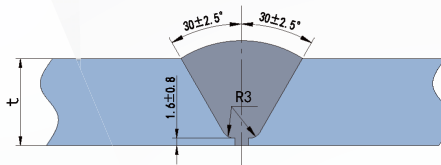
Counter boring & Facing

## Typical Buttwelding Joint

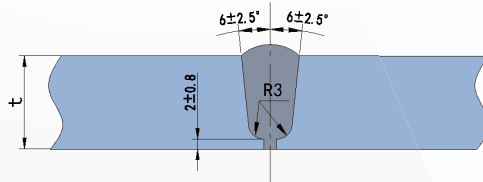
Different welding requirement and welding technology always required different welding seam. Mostly comply with ASME B16.[1].25, but some special demand. Better to advise us before you place the order.



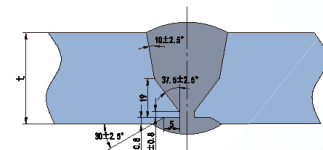
37.5 deg. V T type beveling with 1.6mm root




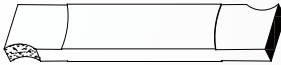

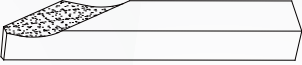


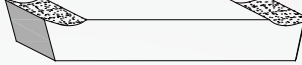

30 deg. U type beveling with 1.6mm root, R=3mm



6 deg. U type beveling with 2mm root, R=5mm



Compound beveling according to ASME B16.[1].25

Cutting tools			
Description	Part Number	Application	Sketch
5X25X100mm M42 Cutting tool	42C-5100	Standard cutting, for most materials up to 30mm	
6X25X200mm M42 Cutting tool	42C-6200	Longer cutting tool, both ends have blade, for most materials up to 60mm	
8X25X200mm M42 Cutting tool	42C-8200	Longer cutting tool, both ends have blade, for most materials up to 60mm	
Beveling tools			
Description	Part Number	Application	Sketch
M42 Beveling tool 12X20X104mm	42B-RH1220-30°	Right Hand	
	42B-RH1220-35°	Standard beveling tool for most materials. Up to 30mm	
	42B-RH1220-37.5°		
M42 Beveling tool 12X20X104mm	42B-LH1220-30°	Right Hand	
	42B-LH1220-37.5°	Standard beveling tool for most materials. Up to 30mm	
M42 Compound Beveling tool 12X20X150mm	42B-CB1220-10°x30°	Right hand 10° x 30°, For most material, up to 30mm	
	42B-CB1220-10°x37.5°	Right hand 10° x 37.5° as per ASME B[16].25 For most material, up to 30mm	
M42 Compound Beveling tool 25X25X150mm	42B-CB2525-10°x30°	Right hand 10° x 30°, For most material, up to 60mm	
	42B-CB2525-10°x37.5°	Right hand 10° x 37.5° as per ASME B[16].25 For most material, up to 60mm	
M42 Beveling tool 25x25x200mm	42B-2525-10°	Longer Beveling tool, both ends have blade, for most materials up to 60mm Fit the heavy wall tool slide	
	42B-2525-30°		
	42B-2525-37.5°		
Counterboring Tool			
Description	Part Number	Application	Sketch
M42 Counterboring tool	42T	For pipe Counterboring Install on the counter boring tool slide	

\* Consult with us for special application



Weight & Packing List							
Model	Working Weight, Kgs		Shipping Weight, Kgs		Packing Size, mm (Plywood)		
	Steel Body	Aluminum Body	Steel Body	Aluminum Body	Length	Width	Height
168	46	41.5	72.00	67.50	640	650	280
230	51.5	42.5	84.50	75.50	740	620	280
275	53.5	44.5	88.50	79.50	770	710	280
325	62	53	97.00	88.00	810	740	280
377	68	56	106.00	94.00	785	845	280
426	76	60	116.00	100.00	910	860	280
457	79	65.5	120.00	106.50	920	870	280
508	98	77	143.00	122.00	940	940	330
560	104	79	152.00	127.00	1040	970	290
610	112	85	161.00	134.00	1050	920	290
660	126	96	180.00	150.00	1050	1050	330
715	148.5	114	203.50	169.00	1050	1050	330
762	152.5	116	208.50	172.00	1090	1090	330
830	163	120.5	224.00	181.50	1150	1150	330
914	196	144.5	261.00	209.50	1130	1200	330
1066	277	197.5	361.00	281.50	1320	730	330
					1320	730	330
1230	331	236	434.00	339.00	1570	820	310
					1570	820	310



24" clamshell carry by hand

# Coming Soon!

# Ultralight Clamshell

In-situ machining always require light weight tools, installation easy and user friendly. Offshore project will be more strict, due to the rush repair need the tool reach as soon as possible by helicopter. If ship by vessel, how much loss one day of offshore???

The sample is ready!!! We will do more test then push to market.  
Coming soon!!!

## Portable Hydraulic Power Units HPU-10

It delivers the power you need in a convenient, lightweight package. The durable design provides superior control and produces less heat and noise than typical hydraulic power pack. Adopts SIEMENS VFD electric motor provides full amps throughout the adjustable speed range, so full torque is always provided to the hydraulic motor as the motor speed is changed. Remote pendant control gives the operator full control over the power unit right from the working area.

### Features

- 5 and 10HP model
- Compact and lightweight
- Various Frequency Drive
- Remote pendant provides easy operation: Start/Stop/ Variable Speed
- Variable displacement pump provides improved power. Performance and precise speed control, allowing near continuous full torque over RPM range.
- Fan cooled helps prevent oil overheating and resulting loss of power.

### Safety

- Low oil level alarm
- High temperature alarm
- Filter plug alarm

## 10HP (7.5kw) Specifications

- Power supply: 380-440V 3PH 50/60HZ
- Rated Pressure: 12.5 Mpa
- Max Hydraulic Flow: 40L/Min
- 5M Length pendant cable
- 8M Length hydraulic hose with quick connection
- Dimensions: 1220 x 870 x 660mm

## New Arrival HPU-5E

- 5HP (3.75kw) Low budget for 24" and smaller machine
- Power supply: 380-440V 3PH 50/60HZ
- Rated Pressure: 6 Mpa
- Max Hydraulic Flow: 32L/Min
- 5M Length pendant cable
- 8M Length hydraulic hose with quick connection
- Dimensions: 860 x 600x 500mm

