

Pipe Cutting and Beveling Machine

2021 NEW Product

3/8"-3"

Super Compact

Super Lightweight

13 Kgs ONLY

Split Frame



YouTube



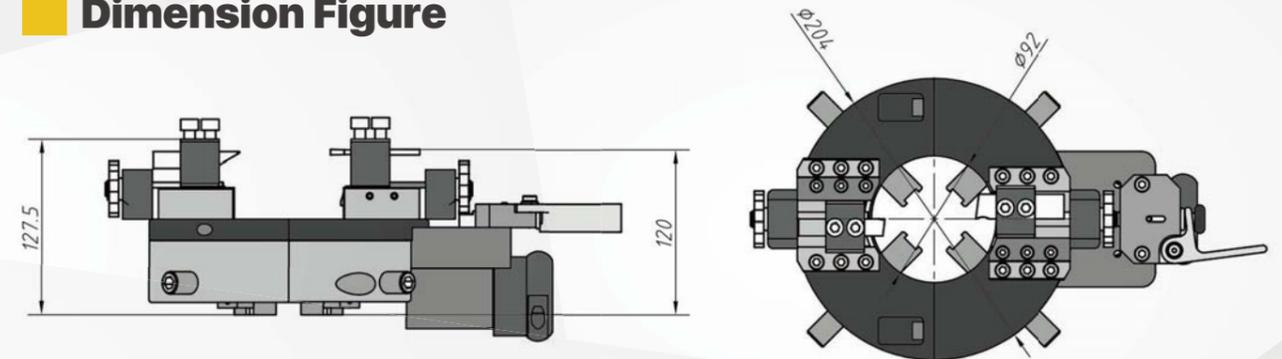
Features

- Split Frame
- Cut or Cut/Bevel simultaneously
- Cold Cut/Bevel
- Pneumatic and electric for option
- Low Axial & Radial Clearance
- Tool Feed Automatically
- Portable, durable plastic case

Specifications

Model	P3	E3
Driven	Pneumatic	Electric-METABO
Power Supply	900L/Min@0.6Mpa	220-230V 1PH 50/60HZ
Motor Power	1.2HP	1300W
Working Range (OD)	17-90mm / 3/8"-3"	17-90mm / 3/8"-3"
Wall thickness	<15mm	≤15mm
Torque	38Nm	42Nm
Rotation Speed	Adjustable 35-40rpm	Adjustable 35-40rpm
Working Weight	13.5 kgs	13 kgs
Shipping Weight	33 kgs	33 kgs
Packing Size	680x510x240mm	680x510x240mm

Dimension Figure

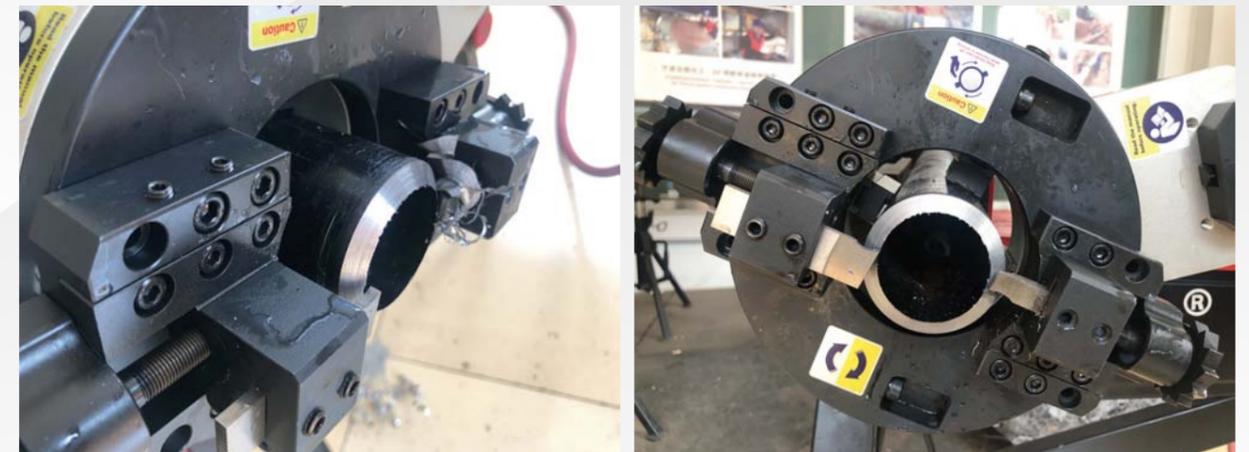


Standard Supply

Main Body-c/w Motor
Toolholder - Cutting & Beveling
Clamping pads - Full set
Hand tools
Storage / Shipping case
Manual



Application



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 60 inches O.D. (DN20-1500), 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.

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

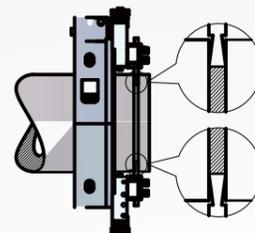
Tool feed automatically

Cut and bevel pipe of any wall thickness.

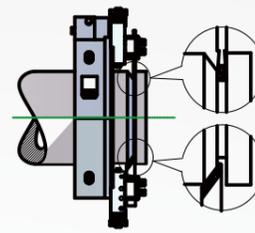
Materials include: Carbon steel, alloy, stainless steel, duplex etc.

Pneumatic, electric and hydraulic type for option

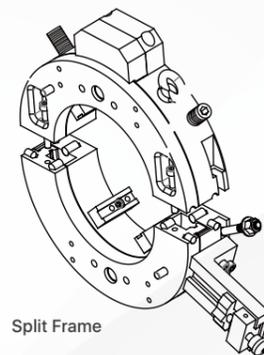
Machining OD of pipe from 3/8" upto 60"



cold cutting

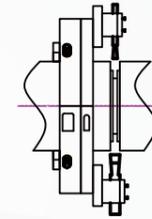


cutting and beveling simultaneously

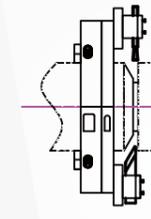


Split Frame

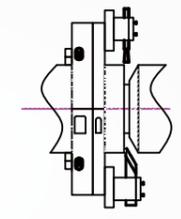
Schematic View



Cold Cutting



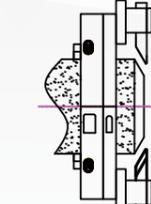
Cutting & Beveling (RH)



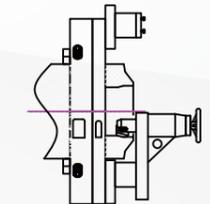
Cutting & Beveling (LH)



Compound Beveling ASME B16.[1].25



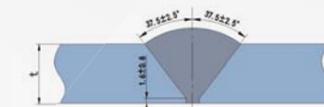
Double Beveling



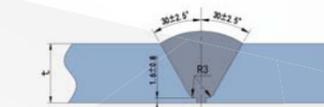
Counter boring & Facing

Typical Buttwelding Joint

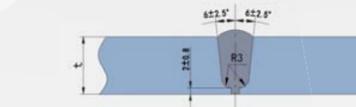
Different welding requirement and welding technology always required different welding seam. Mostly comply with ASME B16.[1].25, but some special demand. Better to advise us before you place the order.



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

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 loosening 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 (55-110CFM,90PSI)
 Hydraulic requirement: 2-60L per minute @6-12.5Mpa
 Electric requirement:220-240V 1PH 50/60HZ
 Feed mode: Star wheel, automatically
 Feed rate: Fixed@0.083mm per circle

YouTube Demo Video



6"-12"
Air operated



42"-48"
Electric operated



24"-30"
Hydraulic operated
Heavy-walled pipe

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 @6-12.5Mpa

Advantage

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



Accessories

Standard Tool Slide

Clamshell c/w the standard tool slide as standard supply
 With standard tool bits, achieve cut/bevel upto 30mm wall thickness in one pass
 Max. Travel:70mm



Part No. BZDB14001

Heavy Wall Tool Slide

Special for heavy walled pipe, especially for power plant
 With special tool bits, cut/bevel wall thickness have no limited in multi passes
 Max. Travel:70mm



Part No. HDB14001

Tracking Tool Slide

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
 Max. travel:55mm



Part No. ZZDB19002

Counter Boring Tool Slide

Performs inside beveling and Counter boring
 Tool Feed: Manually
 Max. Travel: 100mm



Part No. TKDB14001

Part No. TKDB19002
with function of angle setting

FL20 Unit

Brand: SMC Japan
 Air Filter and Lubricator, 2M*2 hoses c/w quick couple



FL20

Selection Guide

19 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	2 - 8	50-230	≤30
275	4 - 10	114-275	≤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
1422	48 - 56	1219-1422	≤30
1524	54 - 60	1371-1524	≤30

* Standard tool slide for cut/bevel up to 30mm
 * Consult with us for heavy wall pipe cut/bevel

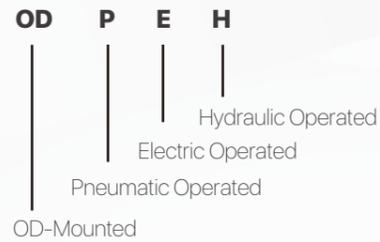
Order Guide

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)

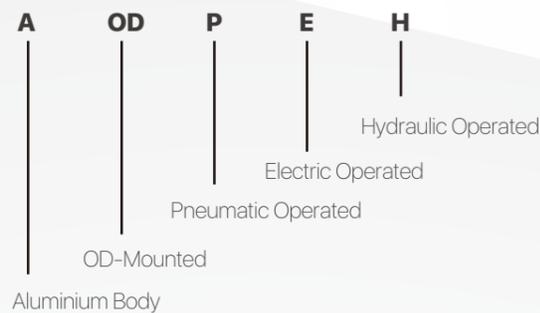
Axial & Radial Clearance

Steel Body Series

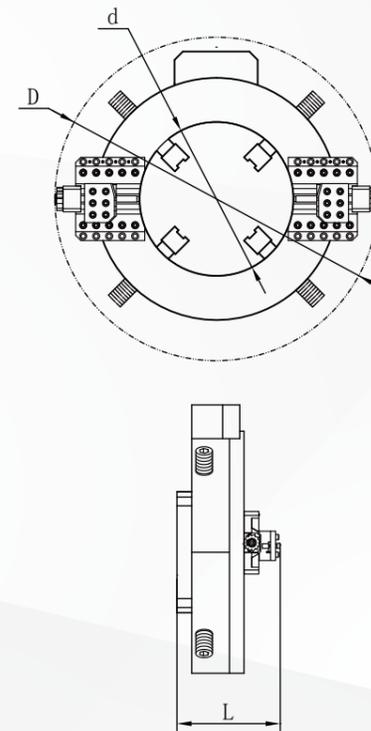


Example:
 ODP-168: Steel body, 2"-6" Pneumatic machine

Aluminium Body Series



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



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

Tooling Chart

Cutting tools			
Description	Part Number	Application	Sketch
M42 Cutting tool 5X25X100mm	42C-5100	Standard cutting, for most materials up to 30mm Use on the standard tool box	
M42 Cutting tool 6X25X100mm	42C-6100	Standard cutting, for most materials up to 30mm Use on all tool box	
M42 Cutting tool 6X25X150mm	42C-6150	Cutting tool, for most material up to 60mm Single blade Use on stand tool box or Heavy wall tool box	
M42 Cutting tool 6X25X200mm	42C-6200	Cutting tool, both ends have blade for most material Use on heavy wall tool box	
M42 Cutting tool 8X25X200mm	42C-8200	Longer cutting tool, both ends have blade for most material Use on heavy wall tool box	
Beveling tools			
Description	Part Number	Application	Sketch
M42 Beveling tool Right hand 12X20X100mm	42B-RH1220-30°	Right Hand Standard beveling tool for most materials. Up to 30mm Use on the standard tool box	
	42B-RH1220-32.5°		
	42B-RH1220-35°		
	42B-RH1220-37.5°		
M42 Beveling tool Right hand 25X25X100mm	42B-RH2525100-30°	Right Hand Use on the tracking tool box or Heavy wall tool box	
	42B-RH2525100-37.5°		
M42 Beveling tool Left Hand 12X20X100mm	42B-LH1220-30°	Left Hand Standard beveling tool for most materials. Up to 30mm Use on the standard tool box	
	42B-LH1220-37.5°		

Compound Beveling Tool			
Description	Part Number	Application	Sketch
M42 Compound Beveling tool 12X20X150mm	42B-RHCB1220150-10°x30°	Right hand 10° x 30°, For most material, up to 30mm Use on the standard tool box	
	42B-RHCB1220150-10°x37.5°	Right hand 10° x 37.5° as per ASME B[16].25 For most material, up to 30mm Use on the standard tool box	
M42 Compound Beveling tool 25X25X150mm	42B-RHCB2525150-10°x30°	Right hand 10° x 30°, For most material, up to 60mm Use on Heavy wall tool box	
	42B-RHCB2525150-10°x37.5°	Right hand 10° x 37.5° as per ASME B[16].25 For most material, up to 60mm Use on Heavy wall tool box	
M42 Beveling tool 12x25x150mm	42B-RH1225150-10°	Recommend solution for heavy wall beveling/ Compound beveling For most material. Use on heavy wall tool box, step by step procedure	
	42B-RH1225150-30°		
	42B-RH1225150-37.5°		
Counterboring Tool			
Description	Part Number	Application	Sketch
M42 Counterboring tool	42T-0822S	Straight Boring Use on counter boring tool box	
M42 Counterboring tool	42T-0830-12°	12Deg. Boring Use on counter boring tool box	
	42T-0830-15°	15Deg. Boring Use on counter boring tool box	



Duplex Cutting
SAF2205
SAF2507



- * Consult with us for special application
- * AISI M42, 8% Cobalt
- * Can supply tool bits for Duplex, Super duplex

Weight & Packing List

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	720	640	290
230	51.5	42.5	84.50	75.50	710	680	290
275	53.5	44.5	88.50	79.50	710	690	290
325	62	53	97.00	88.00	800	740	290
377	68	56	106.00	94.00	840	780	290
426	76	60	116.00	100.00	890	720	290
457	79	65.5	120.00	106.50	920	870	290
508	98	77	143.00	122.00	990	820	320
560	104	79	152.00	127.00	990	920	340
610	112	85	161.00	134.00	990	900	340
660	126	96	180.00	150.00	990	990	340
715	148.5	114	203.50	169.00	1050	1050	340
762	152.5	116	208.50	172.00	1090	1090	340
830	163	120.5	224.00	181.50	1150	1150	340
914	191	144.5	256.00	209.50	1250	1250	380
1066	271	197.5	355.00	281.50	1430	810	380
					1430	810	380
1230	358	244	461.00	347.00	1640	910	380
					1640	910	380

Hydraulic Power Units

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. Remote pendant control gives the operator full control over the power unit right from the working area.

Features

- 5HP 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.



HPU-5E

- 5HP (3.75Kw) Low budget for 18" and smaller size 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: 860x680x630mm
- Shipping Weight: 180kgs



HPU-10E

- 10HP(7.5Kw) Universal power pack
- Power supply: 380-440V 3PH 50/60HZ
- Rated Pressure: 12.5 Mpa
- Max Hydraulic Flow: 32L/Min
- 5M Length pendant cable
- 8M Length hydraulic hose with quick connection
- Dimensions: 1550x930x820mm
- Shipping Weight: 296kgs

New Arrival DHPU-22S

- Diesel Driven, Soundproof type
- Engine Power: 17Kw
- Rated Pressure: 14 Mpa
- Max Hydraulic Flow: 32L/Min
- Oil Tank: 101L
- 20M length hydraulic hose with quick connection.
- Dimensions : 2380 * 1000 * 1125 mm



Package

Standard box: Plywood case
 Optional: High grade plastic case
 Supply Plastic case up to model 457
 Ideal strong and better for storage

