

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

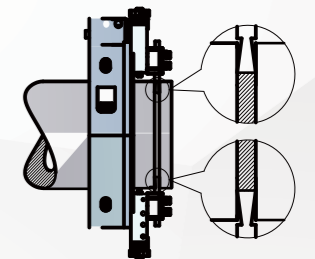
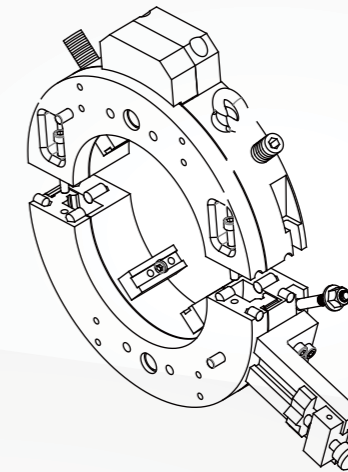
Tool feed automatically

Cut and bevel pipe of any wall thickness.

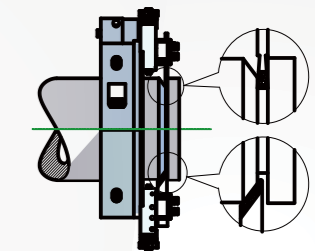
Materials include: Carbon steel, alloy, stainless steel, duplex etc.

Pneumatic, electric and hydraulic type for option

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



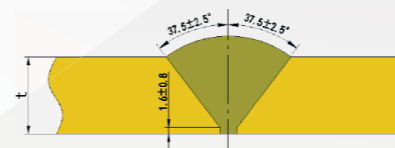
cold cutting



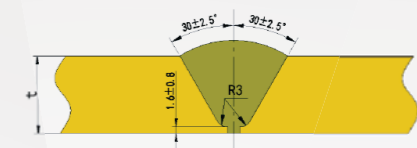
cutting and beveling simultaneously

Typical Buttwelding Joint

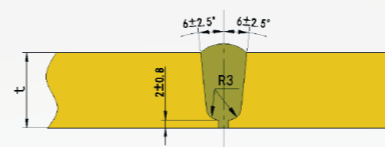
Different welding requirement and welding technology always required different welding seam. Mostly comply with ASME B16.[1].25, but some special demand. Better to advise us before you place the order.



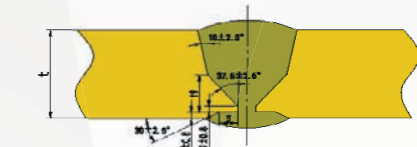
37.5 deg. V type beveling with 1.6mm root



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



6 deg. U type beveling with 2mm root, R=3mm



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

Specification

Drive Options: Pneumatic, Hydraulic, and Electric
 Air requirement: 1500L-3000L Per minute @0.6/0.7Mpa (55-110CFM,90PSI)
 Hydraulic requirement: 2-32L per minute @6-12.5Mpa
 Electric requirement: 220-240V 1PH 50/60HZ
 Feed mode: Star wheel, automatically
 Feed rate: Fixed@0.083mm per circle

Air Type P 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 E Series

Electric Motor Specification:
 METABO Motor
 Model: W24-230MVT
 230V- 50/60HZ 2400W 10,0A
 N 6600/Min (rpm)
 Made in Germany

Hydraulic Type H Series

Power Supply: 380-440V 3PH 50/60HZ
 2-32L per minute @6-12.5Mpa

Advantage

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

YouTube Demo Video



Accessories

Standard Tool Slide

Part No. BZDB14001

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:75mm
 Application: Size 0206-2430

Part No. BZDB14002

Max Travel:100mm
 Application: Size 2632-4248



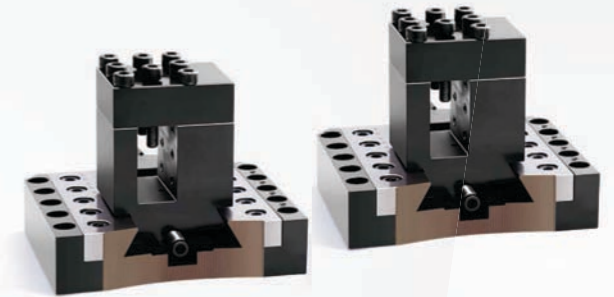
Heavy Wall Tool Slide

Part No. HDB14001

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:75mm
 Application: Size 0206-2430

Part No. HDB14002

Max Travel:100mm
 Application: Size 2632-4248



Tracking Tool Slide

Part No. ZZDB19002

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
 Application: Size 0206-4248



FLR Unit

Filter / Regulator / Lubricator (FRL)

With 2*2M 3/4" air hoses
 Part No.: FL20, SMC brand
 Part No.: FL30, AirTAC brand



Counter Boring Tool Slide

Part No.: TKDB14001

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



Counter Boring Tool Slide

Part No.: TKDB19002

Tool Feed: Manually
Performs inside beveling and counter boring
With the function of angle setting
Max. Travel: 100mm



Hydraulic Motor & Gear box

Part No.: HD00118 Application: Size 0206-1218
Part No.: HD00132 Application: Size 1420-2632
Part No.: HD00148 Application: Size 3036-4248



New improvement

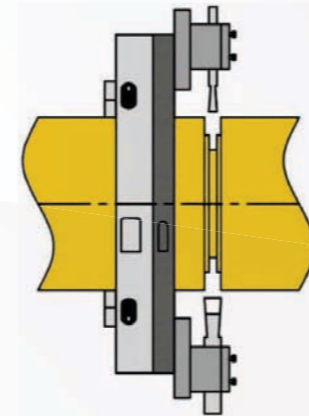


1
Middle locking of rotation ring
Previous the locking screw at the side
The improved new ones, the locking screw in the middle, this make the locking more symmetry and stable.
And the space for loosening screw is bigger than before, when split the ring, more convenient.

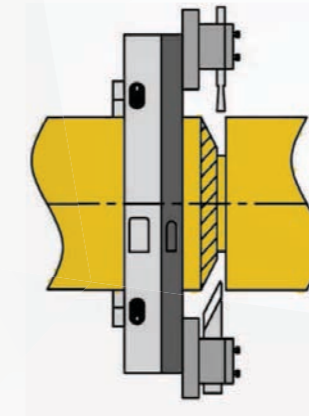


2
Uncovered locking screw of stationary ring
It's difficult to assemble the split frame on the pipeline when 2 locking screws at the side.
The new uncovered design makes the installation easy and user friendly, especially when install the split frame on pipeline.

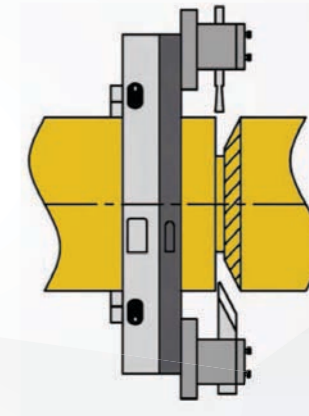
Schematic View



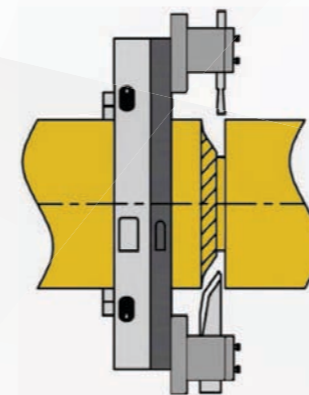
Cutting Only



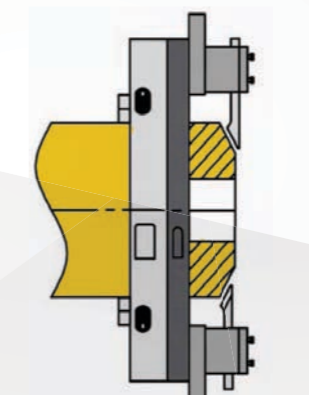
Cutting and RH Beveling



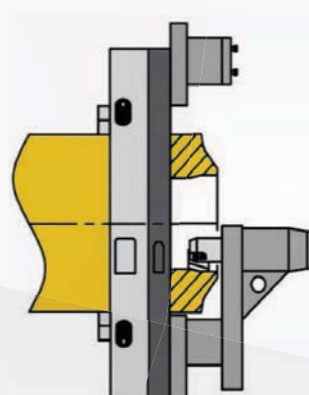
Cutting and LH Beveling



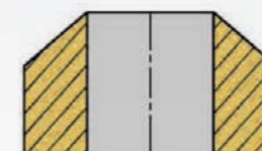
Cutting and compound beveling



Beveling Only



Inner beveling and boring



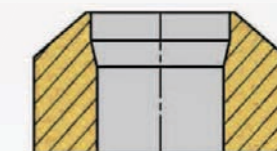
V groove



J groove



Compound groove



Counter Boring

Pipe Cutting and Beveling Machine

2021 NEW Product

Features

- Split Frame, super compact
- Cut or Cut/Bevel simultaneously
- Super lightweight, 13kgs only
- Pneumatic and electric for option
- Low Axial & Radial Clearance
- Tool Feed Automatically
- Portable, durable plastic case



YouTube



Specifications

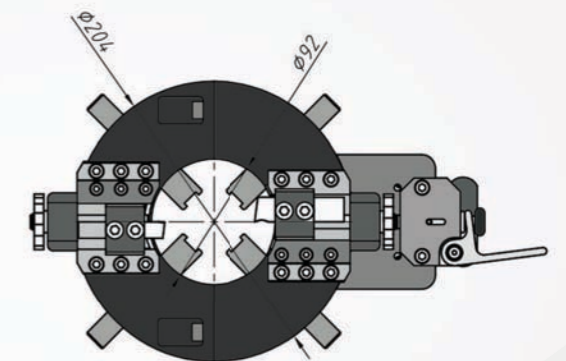
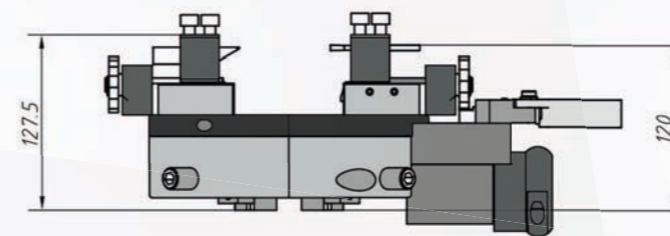
Model	P3	E3
Driven	Pneumatic	Electric-METABO
Power Supply	900L/Min@0.6Mpa	220-230V 1PH 50/60HZ
Motor Power	1.2HP	1300W
Working Range (OD)	17-90mm / 3/8"-3"	17-90mm / 3/8"-3"
Wall thickness	<15mm	≤15mm
Torque	38Nm	42Nm
Rotation Speed	Adjustable 35-40rpm	Adjustable 35-40rpm
Working Weight	13.5 kgs	13 kgs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

Standard Supply

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



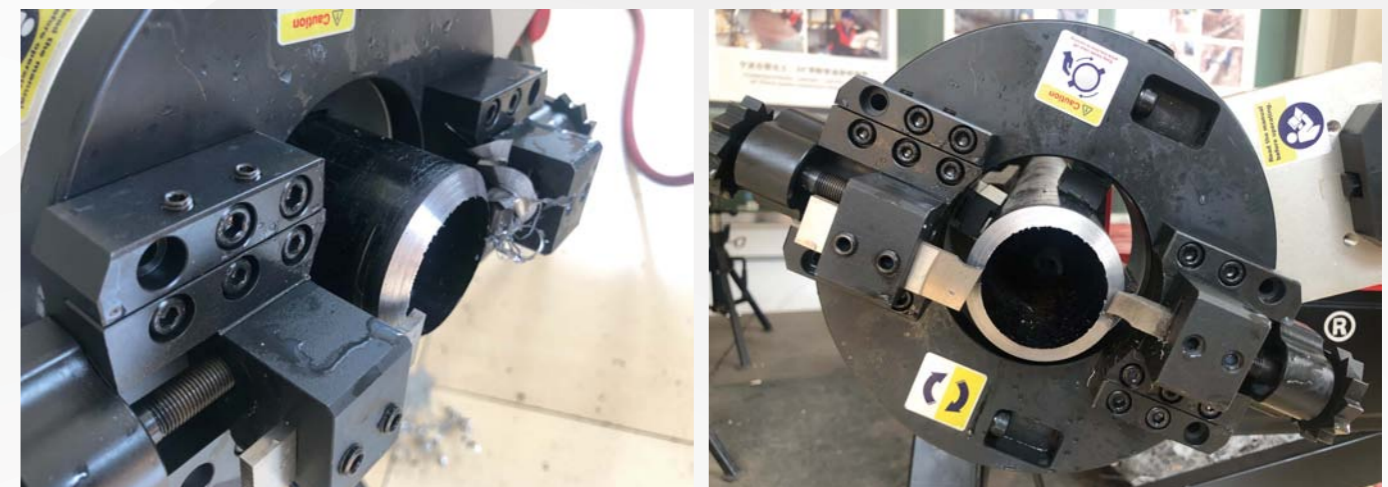
Dimension Figure



Tooling Chart

No.	Description	Part No.	Application	Sketch
1	M42 Cutting tool 4x18x65mm	42C-0465	Standard cutting, for most materials up to 20mm wall thickness.	
2	M42 Beveling tool 12x12x65mm	42B-1265-30°	Standard beveling, for most materials up to 16mm wall thickness. Right hand.	
3		42B-1265-37.5°		

Application



Selection Guide

19 sizes machine for option.

Consult us for special size.

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

Model Size	Working Range (OD)		Wall Thickness
	In ch	mm	
0206	2 - 6	50-168	≤ 30
0208	2 - 8	50-230	≤ 30
0410	4 - 10	114 -275	≤ 30
0612	6 - 12	168 -325	≤ 30
0814	8 - 14	219 -377	≤ 30
1016	10 - 16	273 -426	≤ 30
1218	12 - 18	300 -457	≤ 30
1420	14 - 20	355 -508	≤ 30
1622	16 - 22	400 -560	≤ 30
1824	18 - 24	457 -610	≤ 30
2026	20 - 26	508 -660	≤ 30
2228	22 - 28	550 -715	≤ 30
2430	24 - 30	600 -762	≤ 30
2632	26 - 32	660 -813	≤ 30
3036	30 - 36	762 -914	≤ 30
3642	36 - 42	914 -1066	≤ 30
4248	42 - 48	1066 -1230	≤ 30
4856	48 - 56	1219 -1422	≤ 30
5460	54 - 60	1371 -1524	≤ 30

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

* Consult us for heavy wall pipe cut/bevel

* Consult us for large size split frame

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)

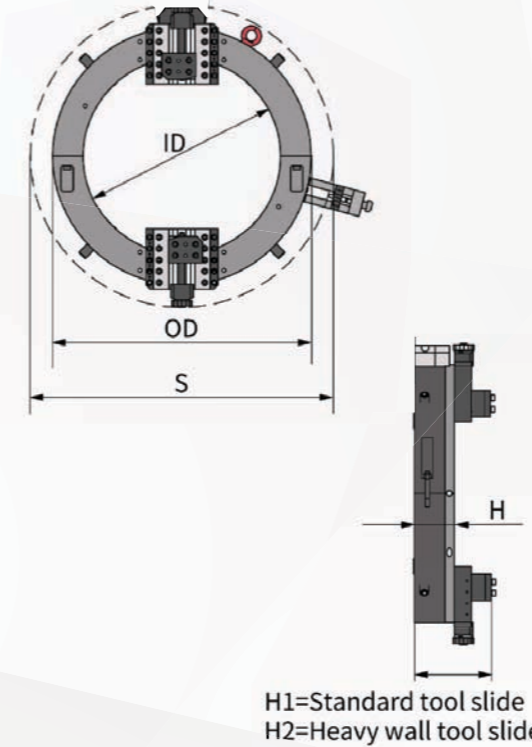
Advise your pipe material (Carbon steel, stainless steel or others)

Other special demands about machine

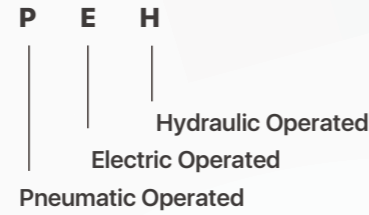
The spare parts needed

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

Axial & Radial Clearance



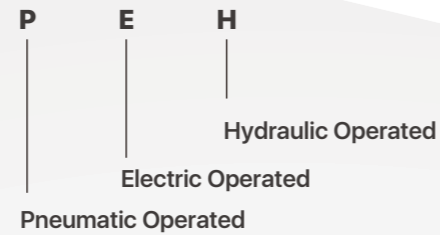
Steel Body Series



Example:

P0206: Steel body, 2"-6" Pneumatic machine

Aluminium Body Series



Example:

H1824A: Alu. body, 18"-24" Hydraulic machine

Steel body

Model Size	Dimensions (mm)						Tool Slide	Clamp Pads
	ID	OD	H	S	H1	H2		
0206	185	311	75	512	162	194	3"	4
0208	236	361	75	564	162	194	3"	4
0410	283	410	75	612	162	194	3"	4
0612	334	462	75	665	162	194	3"	4
0814	386	518	75	719	162	194	3"	4
1016	438	573	75	776	162	194	3"	4
1218	469	605	75	807	162	194	3"	4
1420	519	661	83	862	170	202	3"	4
1622	570	714	88	910	175	207	3"	4
1824	618	763	88	960	175	207	3"	4
2026	670	822	88	1020	175	207	3"	4
2228	719	879	88	1084	175	207	3"	4
2430	770	935	88	1134	175	207	3"	4
2632	830	992	88	1194	175	207	4"	4
3036	924	1094	95	1296	182	214	4"	8
3642	1077	1280	104	1468	191	223	4"	8
4248	1248	1460	113	1646	200	232	4"	8

Aluminum Body

Model Size	Dimensions (mm)						Tool Slide	Clamp Pads
	ID	OD	H	S	H1	H2		
0206	185	311	89	512	176	208	3"	4
0208	236	361	89	564	176	208	3"	4
0410	283	410	89	612	176	208	3"	4
0612	334	462	89	665	176	208	3"	4
0814	386	518	89	719	176	208	3"	4
1016	438	573	89	776	176	208	3"	4
1218	469	605	89	807	176	208	3"	4
1420	519	661	93	862	180	212	3"	4
1622	570	714	93	910	180	212	3"	4
1824	618	763	93	960	180	212	3"	4
2026	670	822	93	1020	180	212	3"	4
2228	719	879	93	1084	180	212	3"	4
2430	770	935	93	1134	180	212	3"	4
2632	830	992	95	1194	182	214	4"	4
3036	924	1094	102	1296	189	221	4"	8
3642	1077	1280	104	1468	191	223	4"	8
4248	1248	1460	111	1646	198	230	4"	8

H1=Standard tool slide
H2=Heavy wall tool slide

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-0830S	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	

YouTube

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
0206	46	41.5	72.00	67.50	720	640	300
0208	51.5	42.5	84.50	75.50	710	680	300
0410	53.5	44.5	88.50	79.50	710	690	300
0612	62	53	97.00	88.00	800	740	300
0814	68	56	106.00	94.00	840	780	300
1016	76	60	116.00	100.00	890	720	300
1218	79	65.5	120.00	106.50	920	870	300
1420	98	77	143.00	122.00	990	820	320
1622	104	79	152.00	127.00	990	920	340
1824	112	85	161.00	134.00	990	900	340
2026	126	96	180.00	150.00	990	990	340
2228	148.5	114	203.50	169.00	1050	1050	340
2430	152.5	116	208.50	172.00	1090	1090	340
2632	163	120.5	224.00	181.50	1150	1150	340
3036	191	144.5	256.00	211.00	1250	1250	380
3642	271	197.5	411.00	321.00	1430	810	380
					1430	810	380
4248	358	244	506.00	382.00	1640	910	380
					1640	910	380

Package

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

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
- 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

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

