

**Pneumatic and Hydraulic Pipe Cold Cutting And Beveling Machine**

● **Wide Range Application**

This machine is produced in pneumatic or hydraulic models, can be used in almost all industries such as construction & maintenance of all pipe line sizes in the fields of oil, gas, petrochemistry and water supply, factories and workshops production lines, refineries, marine industries and etc...

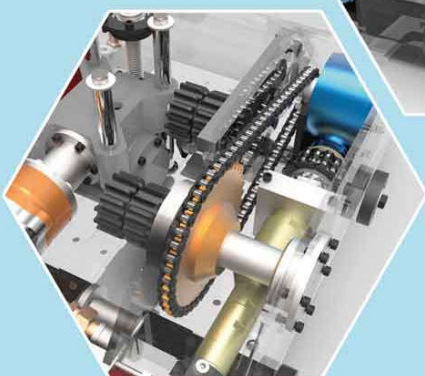
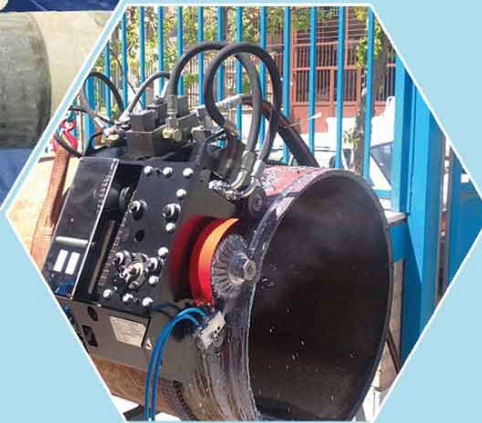
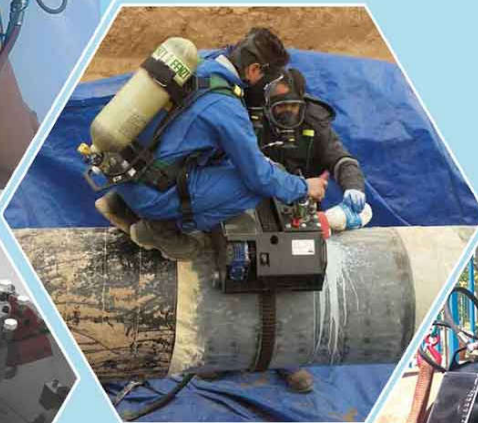
● **Fast, Accurate and Safe cutting anywhere**

This machine is portable, capable of cold cutting and beveling simultaneously, vertical tor horizontal pipes of all machineable materials, sizes from 6" to 72" O.D. even in worst conditions such as explosive and under water. This machine travels itself around the pipe secured by its own tensioning chain, machining as it travels. This machine can also cut tanks and large vessels.

● **Unique Design and High Reliability**

This machine was designed and produced in IRAN by Part Arya Company. High quality and reliability of the products fulfills all the customers' necessities so far.

- Cold cutting and beveling simultaneously on all machineable pipe materials. (Ready for welding) Pipe sizes from 6" to 72" O.D.
- Ability to Cut & Bevel large tanks and vessels up to 10 meter in diameter.
- Portable and ability to work in the workshop or offshore operations.
- Secured by its own tensioning chain, propels itself around the pipe, machining as it travels.
- Easy and fast set up (Max 10 min).
- Pipe end with smooth machined finish.
- Cutting speed of 1 inch of Dia./Min for standard wall pipe.
- Typical tolerances of 1.5mm closure.
- By using an optional guide track and wheels, the accuracy of 0.12mm can be maintained even in zero visibility.
- Operation in both vertical and horizontal pipes.
- Operation in a mud or under water.
- Long life operation.
- Ability to cut & Bevel simultaneously materials such as carbon steel, ductile iron, cast iron and most alloys.
- Well suited for use in explosive conditions such as natural gas, crude oil products and fuel lines.
- Available in two kinds of pneumatic and hydraulic drive.





Part Arya Company after finding the need of market, specially the regional market, for fast, accurate and safe portable cutters began to design and produce such machines. After engineering procedures like Full 3D computerized modeling and drawings, Computer aided analysis, Choosing the best material, Destructive and Non-Destructive tests on all parts of machine, finally succeeded to introduce a high quality and reliability product with high operational power to the market.

### Available Models Specification

Machining Capacity	PE1	6" thru 72" (153 to 1829 mm) pipe large diameter vessels
	PE2	
	HE1	
Cutter Drive	PE1	Pneumatic 4 hp governed air motor Coupled with worm gearbox
	PE2	
	PE3	As above , with Hydraulic motor up to 8 hp
	HE1	
Cutter Speed	PE1	35 to 55 rpm
	PE2	
	PE3	Adjustable 0 to 60 rpm
	HE1	
Feed	PE1	Pneumatic up to 3/4 hp non-Reversible air motor + 5/8 Pitch chain
	PE2	Pneumatic up to 3/4 hp Reversible air motor + 5/8 Pitch chain
	PE3	Pneumatic up to 1/2 hp non-Reversible air motor + 1/2 Pitch chain
	HE1	Hydraulic 4 hp motor + 5/8 pitch chain
Air/Hydraulic Requirement	PE1	2.8 m <sup>3</sup> /min @ 6 bar
	PE2	
	PE3	15gpm @ 100 bar
	HE1	
Work Speed	PE1	1" of dia/min for 1/2" wall
	PE2	
	PE3	
	HE1	
Weight	PE1	100 kg ± 5 kg shipping 190 kg ± 10 kg
	PE2	
	PE3	
	HE1	
Clearance	PE1	280 mm radial , 510 mm axial
	PE2	
	PE3	
	HE1	
Dimension (L*W*H)	PE1	610*510*280
	PE2	
	PE3	
	HE1	

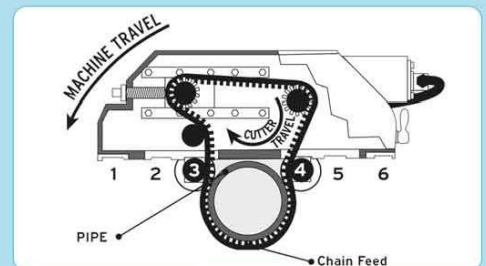
All models are available in corrosion resistant mode with intensive use of stainless steel fasteners , special bearings and seals and high zinc coating By adding 'CR' after model code ( ex.PE1CR)

#### • Standard Equipments:

Operational manual and isometric parts lists, Chain connecting pins, Full operating tools, Torque meter wrench, Crane cable, 10 meters H.P. hose with quick change connections, Air Lubricator(Pneumatic only), Full set of using oils, Basic length drive chain and Steel storage case.

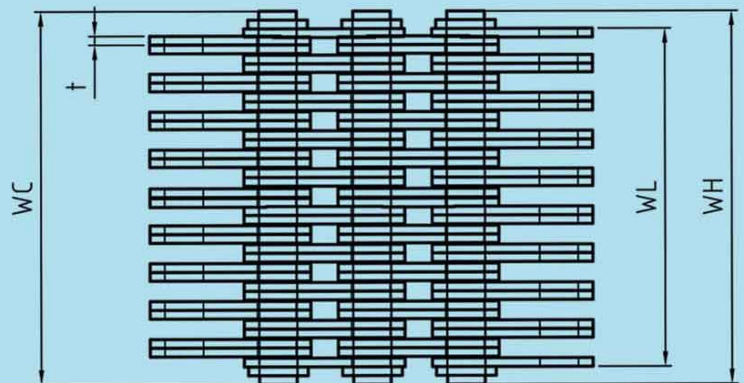
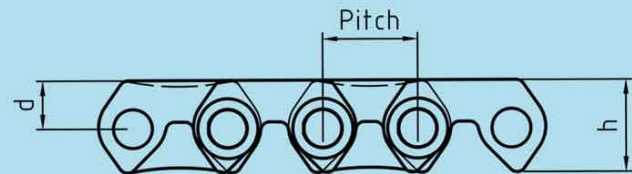
#### • Other Equipments:

Drive chain sections up to 72", Spray mist cooling system, Guide track and wheels, Cutter blades.



● SC Series :









SC series is available in side guide assemblies. Center guide assemblies are fully compliant with the ASME Standard for silent chain. operate on industry standard sprockets. Sc Chain can accommodate speeds approaching 33 m/s and loads in excess of 750 kw. We recommend SC chain primarily as a replacement chain for existing power transmission applications where it has been successfully employed in the past and also used in cold cutter machinery as feed system.



Pitch	Part Number	Nominal Width	Guide Type	Width Over Heads WH	Width Over Links WL	Width At Connector WC	Weight (kg/m)	Breaking Load (kN)	h	d	t
1/2"	SC408	51	CG	52.3	47.5	54.1	2.7	47	11.9	5.3	1.5×2
5/8"	SC510	64	CG	64.3	57.4	66.0	4.5	69	16.5	8.4	1.5×2

Part Arya Eng. Co. is middle east exclusive distributor of C.R. Tools company products. C.R Tools are leading manufacturers of special engineering cutting tools including high quality pipe cold cutting and beveling machinery cutter blades. Our success is based on total commitment to the customers with the aim and objective to provide an inclusive tool cutting service which is second to none – from receipt of order or enquiry to delivery of the finished product. Based in Sheffield UK, C.R. Tools factory controls all in house cutting tools processes from the initial drawing board and specification stage through to the finished product. Attention to detail is one of our greatest assets and our skilled workforce ensure superb quality and prompt delivery. C.R.Tools are a professional company with over 40 years engineering and Industrial experience. The highly skilled workforce manufactures Involute Gear, Sprocket and Spline Cutters and has the capacity to produce Bore Type Milling Cutters to any specification; in addition a wide range of pipe cutters slitting saws and bevel cutters.

Available Models Specification

HSS Bevel Cutters							
Application	DIA (")	WIDTH (")	BORE (")	TEETH	ANGLE	CODE	PRICE
For Carbon and Alloy pipe, maximum wall 3/4" for use with part P6-188	5	1/2	1,1/4	20	30	P5-30L	
For Carbon and Alloy pipe, maximum wall 3/4" for use with part P6-188	5	1/2	1,1/4	20	30	P5-30R	
For Carbon and Alloy pipe, maximum wall 5/8" for use with part P6-188	5	1/2	1,1/4	20	37.5	P5-375L	
For Carbon and Alloy pipe, maximum wall 5/8" for use with part P6-188	5	1/2	1,1/4	20	37.5	P5-375R	
HSS Slitting Blades and Staggered Side Chip							
Application	DIA (")	WIDTH (")	BORE (")	TEETH		CODE	PRICE
Carbon and alloy pipe upto 1" wall.	6	3/16	1,1/4	42		P6-188	
Carbon and alloy pipe upto 1, 1/2" wall.	7	3/16	1,1/4	48		P7-188	
Carbon and alloy pipe upto 2, 1/8" wall.	8	3/16	1,1/4	60		P8-188	
Carbon and alloy pipe upto 1, 1/2" wall.	7	9/32	1,1/4	60		P7-281	

All tool cutting stages are monitored and checked for accuracy and precision, using only the highest grade Steels and over 40 years of technical expertise. Any problem you may have we can solve it. With over 40 years of experience of using and making Milling Cutters for every trade and country in the world.

● **What is the In-Line Filter Lubricator Features?**

- Metering valve for adjusting oil flow.
- Uses a 40 micron sintered bronze particulate filter.
- Sight disk in housing to visually inspect oil level.

● **Where to install In-Line Filter Lubricator?**

These are heavy-duty in-line lubricators to be installed 2 meters from the tool. Designed for use with tools being used too far away from compressor to be lubricated by a permanently mounted unit.

● **Why use In-Line Filter Lubricators?**

- Use Lubricators to save money and eliminate repairs.
  - Use lubricators to eliminate costly downtime.
  - All air tools need lubrication.
  - Absolute must for improved tool life.
  - One of the most common repairs an air tool undergoes is disassembly to clean foreign material out of the valve assembly.
- In-line Filter / Lubricators help prevent this from happening. The 40 micron filter can easily be cleaned or replaced.

● **These filter / lubricators can be used on:**

- Pneumatic Hammer or Paving Breakers
- Impact and Torque
- Nut Runners
- Air Grinders
- Pneumatic Pipe Cold Cutter
- Air Scribe

In-line filter lubricator  
Suitable for all pneumatic devices  
such as pipe cold cutter



Cutter Blades  
for  
Pipe Cold Cutting and Beveling Machine



Spray mist cooling system  
for  
Pipe ColdCutting and Beveling Machine  
with 60 Liters tank



Part Arya hydraulic power units are the ideal choice for smooth, reliable hydraulic power, in the shop or in the field. Powered by diesel or electric with your choice of cart, trailer or skid mounting there's a unit to fit your exact pressure and flow needs. In addition, special units can be custom ordered to meet unique customer requirements.

MODEL : D241



MODEL : D241-B



MODEL : E1541



### Standard Features:

- Low-tone muffler for noise level reduction
- Select units can be converted from Skid to Trailer or Cart
- All diesel powered units feature electric start
- All units include pressure gauge, relief valve and bypass/On-Off valve
- Hydraulic oil-level sight gauge on select units
- Hour meter and full engine alarms included on select units
- HTMA hydraulic quick couplers on all models
- Large capacity hydraulic coolers meet or exceed HTMA specifications

### Available Models Specification

MODEL	D241	D241-B	D380W-B	D362W-B	E1541
ENGINE	28.5 H.P. Diesel 2Cyl. Air Cooled		30 H.P. Diesel 3Cyl. Water Cooled	47.5 H.P. Diesel 3Cyl. Water Cooled	15 H.P. Electric
GPM/LPM	24/90				16/60
FRAME TYPE	Skid Type A	Skid Type B			Skid Type A
OIL COOLER	Air to Oil with Fan				
Hyd. Oil (Usable)	200 LTR				
Hyd. Relief Pressure	2000 PSI/138 BAR				
FILTRATION	Suction and Return Line 10 Micron				
PUMP TYPE	Pressure Flow Compensated Open Circuit Piston Pump				

- All units are, where applicable, shipped without fuel and hydraulic oil.  
 - Operating specifications subject to change without notice. Where specifications are critical, please consult the factory.