HEAVY DUTY

Cutting and Beveling Machine

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MACHINERY & ENGINEERING GROUP

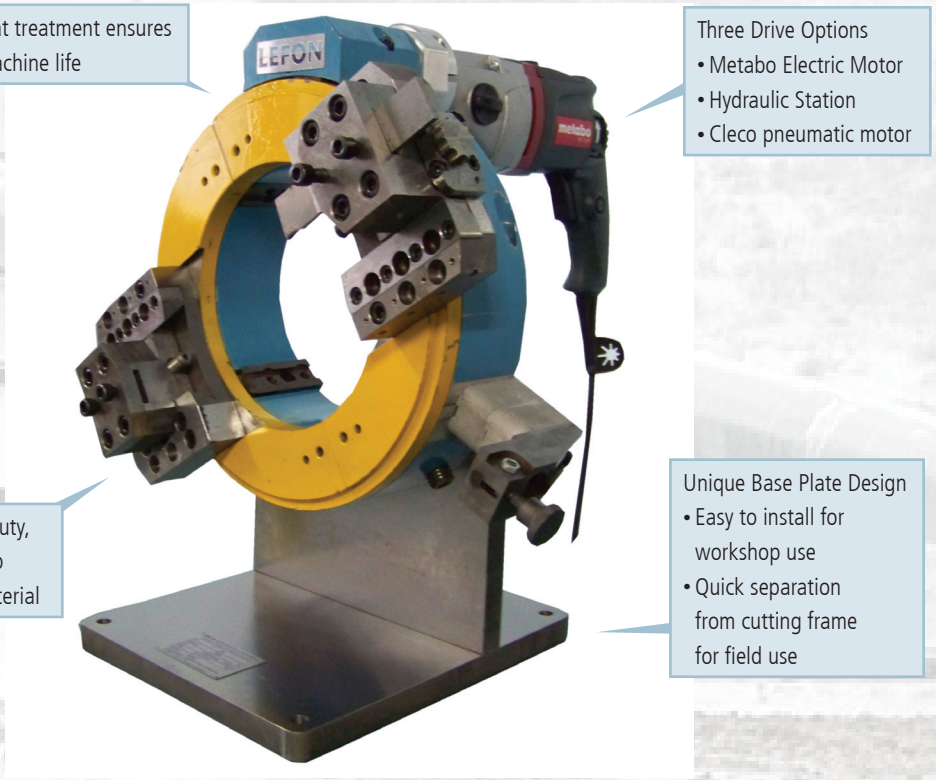
LEFON Heavy Duty Pipe Cutting and Beveling Machine is portable, designed to use in both workshop and on-site. It is heavy duty, specially intended for heavy wall pipes with high wall-thickness in heavy duty applications. It machines pipe by the cold cutting principle that eliminates any heat affected zone. The machine split frame is made from aluminum which is extremely low weight for easy handling and lifting and is versatile in application and can perform many operations. The machine provides a fast metal removal rate and high working speed which presents the economical manufacturing solution.

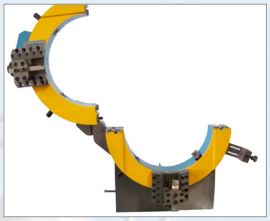
APPLICATIONS:

- Cutting off pipes
- Simultaneous cutting and beveling
- Weld Preparation on the pipe end
- Inside-turning of pipe ends
- Flange facing, or Flange Repairing on-site

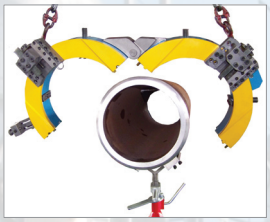
FEATURES:

- Aluminum body, extremely low weight, can be used in both on-site and workshop
- Easy to use, one operator can mount and dismount the machine on a pipe within minutes
- Excellent stability and enhanced gear heat treatment ensures expanded machine life
- Heavy Duty, cutting and beveling simultaneously
- Suitable for cutting all kinds of material, from cast iron, high strength alloy, to stainless steel
- Base plate can be easily installed and uninstalled, for workshop and field applications
- Five models available, covering OD from 2" to 30" (780mm), wall thickness can reach up to 6"(150mm)
- Three power sources available for different applications: Hydraulic Station, Pneumatic, and Electric
  - > Easy to move and powerful Hydraulic station
  - > High torque pneumatic motor is from world's #1 nutrunner manufacturer, Cleco of Cooper Power Tool
  - > Powerful and reliable Electric motor supplied by Metabo

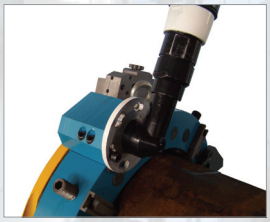




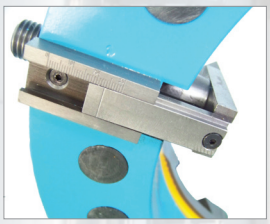
The cutting machine body is aluminum. The light weight body allows one person to easily set up and operate.



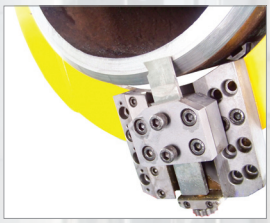
The machine consists of a two half circular spited frame that can join together at any point around the pipe, making it easy for tight space or field use. Top lifting ring designed for easy field use.



Pneumatic motor is 90 degrees relative to the pipe axis, allowing work in tight spaces.

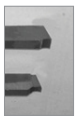


Micro clamping scale provides accurate control on beveling progress

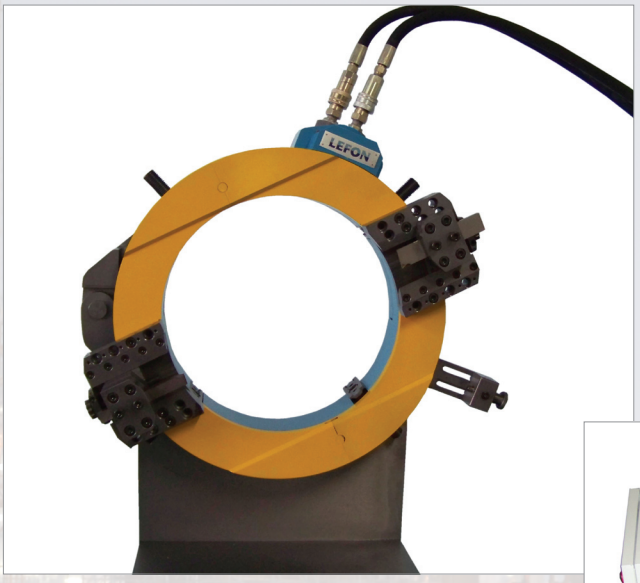


Robust Bit holder design to ensure cutting and beveling progress is implemented perpendicular to pipe axis even if the pipe is not round, and to eliminate Bit damage.

Cutting and Beveling Bit Selection

Application	Type of Bit
Use two Bits to cut heavy duty pipes	
Welding Preparation, use specially designed Bits based on customer drawing	
Bits to cut and bevel simultaneously	
Bits to bevel both pipe ends	

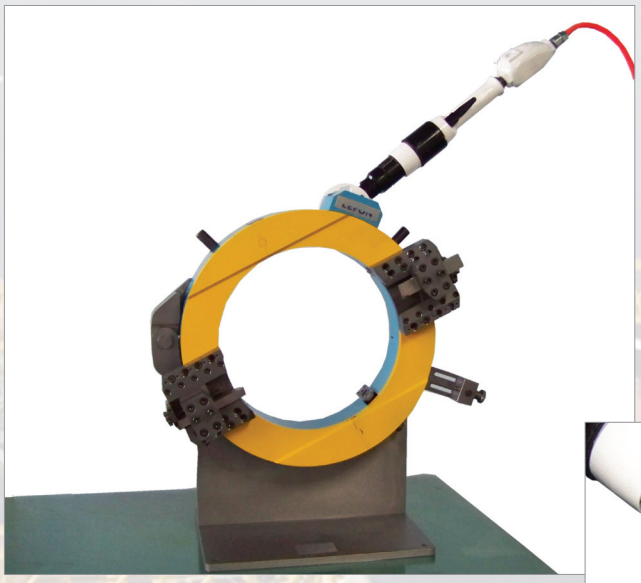
HYDRAULIC STATION:

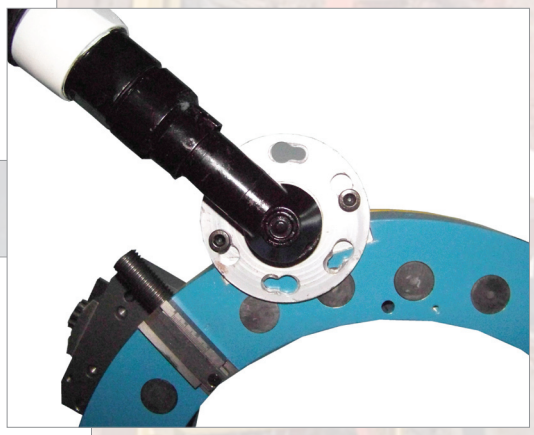


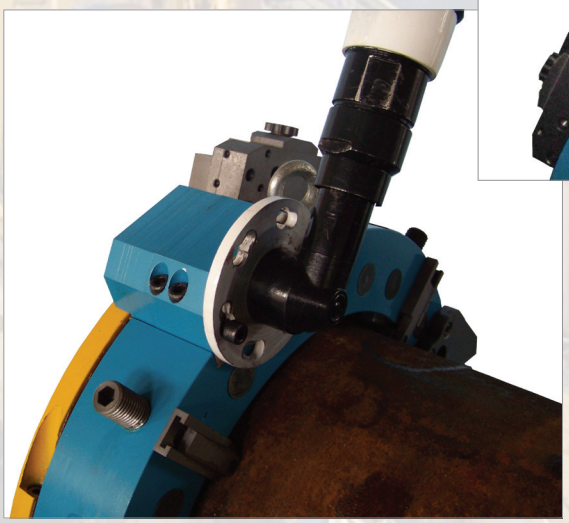
SPECIFICATIONS:

Model Number		LCB 6	LCB 12	LCB 18	LCB 24	LCB 30
Hydraulic motor power	Hp(W)	--	7.4	7.4	7.4	7.4
	Nm	--	170	170	170	170
Oil working pressure	psi	--	1449	1449	1449	1449
Oil flow rate min. required	gpm	--	4.2	4.2	4.2	4.2

CLECO PNEUMATIC MOTOR:

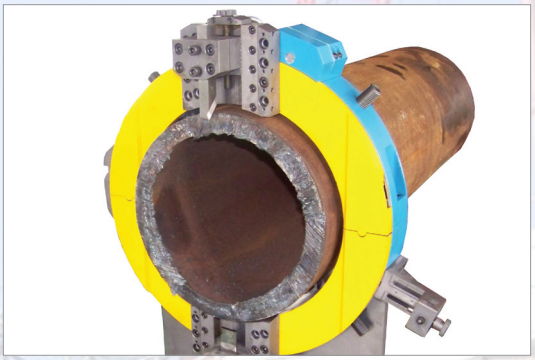






SPECIFICATIONS:

Model Number		LCB 6	LCB 12	LCB 18	LCB 24	LCB 30
Pneumatic motor power	Hp(W)	--	2(1470)	2(1470)	3(2205)	3(2205)
	Nm	--	149	149	149	149
Air consumption	L/min	--	1698	1698	1698	1698
	cfm	--	60	60	60	60
Air working pressure	bar	--	6.21	6.21	6.21	6.21
	psi	--	90	90	90	90



TECHNICAL FEATURES:

Model Number		LCB 6	LCB 12	LCB 18	LCB 24	LCB 30
Range OD	mm	50-170	150-320	300-480	450-630	600-780
	inches	2"- 6"	6"- 12"	12"- 18"	18"- 24"	24"- 30"
Wall Thickness	mm	≤43	≤150	≤150	≤150	≤150
	inches	≤1.69	≤5.9	≤5.9	≤5.9	≤5.9
Radial Feed Rate	mm/rev.	0.08	0.08	0.08	0.08	0.08
	inches	0.004	0.004	0.004	0.004	0.004
Idle Speed	RPM	30	20	12	11	11
Net Weight	Kg	24	40	54	70	90
Cleco Pneumatic Motor						
Pneumatic motor power	Hp(W)	--	2(1470)	2(1470)	3(2205)	3(2205)
	Nm	--	149	149	149	149
Air consumption	L/min	--	1698	1698	1698	1698
	cfm	--	60	60	60	60
Air working pressure	bar	--	6.21	6.21	6.21	6.21
	psi	--	90	90	90	90
Metabo Electric Motor						
Electric motor power	Watt	1020	--	--	--	--
Voltage	Volt	110/220	--	--	--	--
Frequency (cycles)	Hertz	50/60	--	--	--	--
Hydraulic Station						
Hydraulic motor power	Hp(W)	--	7.4	7.4	7.4	7.4
	Nm	--	170	170	170	170
Oil working pressure	psi	--	1449	1449	1449	1449
Oil flow rate min. required	gpm	--	4.2	4.2	4.2	4.2

We offer a quality product and are CE Certified.

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