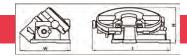
MANTIS Series





Lightest in its class! Two actions in one machine!

We've brought you safety, we've brought you ease of use, now we bring you a new type of machine in the MANTIS series. Just change the vice for double the action!





Chain Vice



CHAIN VICE UNIT 475190

MANTIS 180WS 8A-150A (¼"-6") 🖬 🎎 🚺 🏶 🕽									
Code No.	4751S1								
Model	MANTIS XB180WS								
Cutting capacity	90°ROUND PIPE Φ180/SQUARE PIPE150/ ROUND BAR (MILD STEEL) Φ80								
Motor	Single phase 220 V (50/60 Hz), Split-phase Induction motor 250W (Output), 380/350W (50/60Hz : Input) with overload protection								
Pulley speed (rpm)	70 (50 Hz), 84 (60 Hz)								
Dimensions (mm)	L865 x W355 x H415								
Weight (kg)	37								
Standard accessories	14-tooth HSS blade (x1)(475211), Hex key 5 mm								





<u>REX</u>

Bandsaws MANTIS Series

11.



Among the lightest and most portable of large Band Saws! Does just about everything you need to do at site!

The latest model in the Mantis range adds a new dimension to your work. Hydraulic cylinder inside base unit allows variable adjustment of the frame lowering speed.



Features

- · Handles up to 10" pipe
- · 4 wheels built in for great portability
- · Lightest in its class
- · Oil-free cutting
- · Hydraulic damper and spring allows smooth adjustment of cutting speed
- Cuts at angles from 0° to 45°
- · Lets you replace the blade from the front
- (same as Mantis 180W)
- · Built-in brush for plastic waste (same as Mantis 180W)
- · Reset switch for when overload protection kicks in
- · Clamp to keep pipe in place

<u>MANTIS 270</u>	A 8A-250A (¼"-10")
Code No.	4751C1
Model	MANTIS XB270A
Cutting capacity	90°ROUND PIPE Φ270/SQUARE PIPE250/ ROUND BAR (MILD STEEL) Φ40 45°ROUND PIPE Φ170/SQUARE PIPE150
Motor	Single phase 220 V (50/60 Hz), Split-phase Induction motor 250W (Output), 380/350W (50/60Hz : Input) with overload protection
Pulley speed (rpm)	70 (50 Hz), 84 (60 Hz)
Dimensions (mm)	L990 x W600 x H510
Weight (kg)	80
Standard accessories	14-tooth HSS blade (x1)(475270) Spanner for adjustment of vice angle, Wrench (19 mm) Hex key 8 mm

Optional accessories

Flat Vice Only



Cutting-length guide (475196)

18-tooth HSS blade(475275)

Pipe support for 270A (4751Z9)





closed easily and the saw blade can be replaced from the front



to suit the material

Carry with just one hand

Handle



Can be stored upright



Making contours Easy to make angle cuts with small steel materials





Bandsaws

MANTIS Series

Features

Safety

· Motor equipped with overload protector to prevent burning. Motor stops automatically after cutting.

Easy operation

- · Handle, knob and switch are all located at the front for easy operation. (Fig. 1)
- Replacement of saw blade is easy; just detach the front cover. (Fig. 2)
- Large wheels provide easy movement. (Fig. 3)

XB180WS/XB180WA

Contour function provides simple jigsaw or angled cutting. (Figs. 4-5) **XB180WA**

Flat vice has angle adjustment function for precise angled cutting. (Fig. 9) Quick vice provides easy and fast clamping.

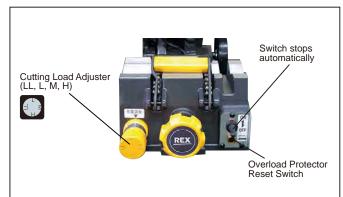


Fig. 1 All cutting operations located at the front



Fig. 2 Easy replacement of spare saw blade



Fig. 3 Large wheels make it easy to move

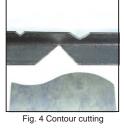


Fig. 5 Contour cutting for small steel material



waste powder to reduce slippage reduce slippage of saw blade.

Fig. 9 Angled cutting (XB180WA / XB270A)



Fig. 7 Bundle cutting (Chain Vice)



Fig. 8 Cutting Load Adjuster (LL, L, M, H)



Can be stored upright Just needs an area the size of an A4 sheet of paper (approx. 200 x 300mm)

Why Use a Band Saw?

With band saws:

- You can cut precise lengths easily.
- Cut right angles accurately; no problems with angled or stepped cutting.
- Cut plastic coated pipes smoothly. The XB-180W is equipped with a brush to clean off plastic waste. (Fig. 6)
- A change of blades allows you to cut from 2 mm thick stainless steel pipe to mild steel bars 80 mm in diameter. (Pg. 15)
- Different blades available for a variety of materials from steel and stainless steel to plastic, cast iron and mortar lined pipe. (Pg. 15)
- You can do bundle cutting (Fig. 7), angled cutting (Fig. 9), and contour cutting. (Figs. 4-5)

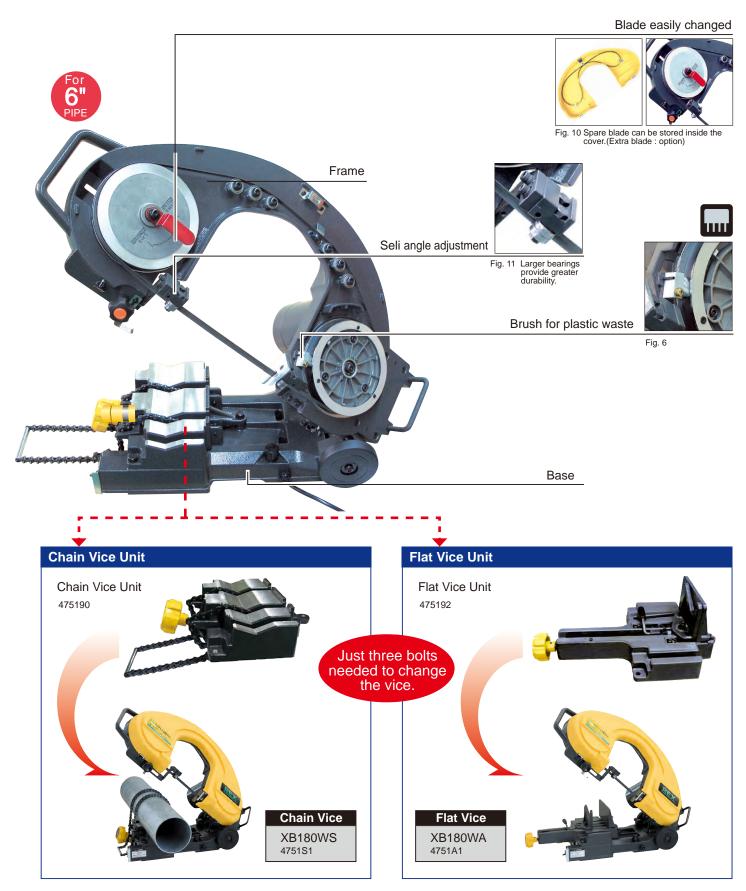




Cut thin stainless steel pipe using a very light load.

(Requires 24-tooth HSS saw blade)

XB180WS/XB180WA Two machines in one!



MANTIS Series

Mantis Saw Blades (Optional extras)

Be sure to use only recommended blades.

	Code No.	Material	No. of teeth (teeth / inch)	No. of blades included		
	475200		8			
	475201		10			
	475202	Alloy	14	10		
XB180WS	475203		18			
	475204		24			
XB180WA	475210		10			
	475211*	HSS	14			
	475212	(Bimetal)	18	5		
	475213		24			
	475220	Grid saw	-			
XB270A	475270*	HSS	14	5		
	475275	(Bimetal)	18	5		
	475302	Alley	14	10		
	475303	Alloy	18	10		
XB125 XB120A	475312*		14			
	475313	HSS (Bimetal)	18	5		
	475314		24			

* Standard accessory

REX Bandsaw Blades

High-speed Blades: Made of HSS Cobalt for durability, plasticity and resistance to high temperatures. Suitable for stainless steel and other materials that are difficult to cut.

Alloy blades: Suitable for common steel materials such as alloy tool steel, and special steel. Note: Allow new blades to run in by making a few cuts first.

Effect of running in the blade

If you use a new blade to suddenly cut a workpiece, it can result in the teeth getting chipped and initial wear. Running in the blade can greatly affect the life of the blade. It is particularly important in the case of pipe, shaped steel, small articles etc.

How to run in a new blade:

- Wipe off any oil or dirt before placing the blade in the unit. -Set the cutting load adjustment dial to L, and cut some material once or twice.

Running the machine for long periods of time without any material significantly shortens the life of saw blade.



475211

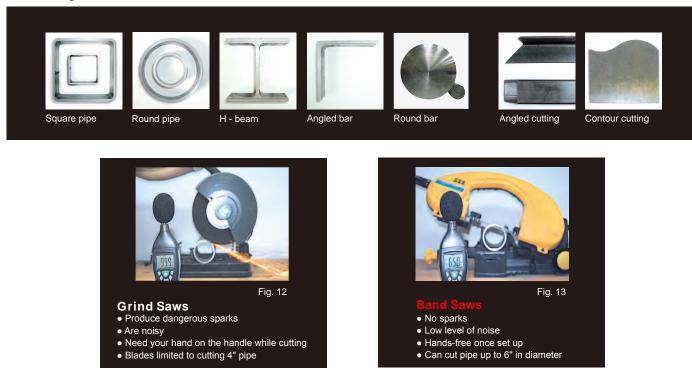


475270



475312

Use: Cutting Steel & Stainless Steel materials



REX

*2 XB125/120A : M

*3 XB125/120A : LL *4 XB125/120A : 16 - 60mm

Selecting the Cutting Load and Blade for XB-125 / 120A / 180WS / 180WA

Use the table below to select the blade and cutting load that are appropriate for the type, diameter, wall thickness etc. of the material to be cut.

Matarial			Alloy Blade				High-speed steel Blade				Grid		
	Material		tooth	8	10	14	18	24	10	14	18	24	sa
Steel pipe 32A - 8			8A - 25A (¼"-1")			L	L			L	L		
			32A - 80A (1¼"-3")			М	М			М	М		
			90A - 150A (3½"-6")			н	Н			Н	Н		
	Schedule 40	Nominal size	8A - 25A (¼"-1")							L	L		
			32A - 80A (1¼"-3")							м	М		
Stainless steel			90A - 150A (3½"- 6")							Н	Н		
	Thin wall stainless		13 - 125Su									LL	
	steel (SU pipe)		150Su								LL	L*3	
Plastic	pipe (Polyethylene pipe	/ Viny	l chloride pipe)			LL	LL			LL	LL		
Conduit Thick steel Thin steel						М				М			
			Thin steel				L	L			L	L	
	Cast iron pip	е				н				н			
	Mortar-lined cast-ir	on pip	be										ŀ
	Section steel	Thickness	≦ 1.9 mm					LL				LL	
			2 - 3.4 mm			L*1	L*2			L*1	L*2		
			3.5 - 4.9 mm			M*1	М			М	М		
01			5 - 7.9 mm		М	н			М	Н			
Steel			≧ 8 mm		н	н			н	Н			
	Round bar		≦ 15 mm			М	М			М	М		1
			16 - 50 mm*4			н				Н			1
			51 - 80 mm*1	Н	н				н	н			1

LL= ultra-light load L= light load M = medium load H = heavy load

Notes: • The figures in the table are examples only. Select the blade and cutting load to match the actual material to be cut.

 \cdot When selecting the proper number of teeth on the blade, use the following guideline: thickness of material = 2 teeth.

 \cdot Depending on their composition or hardness, some materials are not applicable to the above table.

• When cutting plastic pipes, even if LL (ultra-light load) is selected, the cutting load may be too heavy and the pipe may be cut at an angle. To prevent this, hold the handle on the frame with your hand and lower it slowly as you cut the pipe.

No. of notches to set the valve lever at when cutting (for XB270A)

		High-speed steel Blade			
	Material	14	18		
		Valve lever notches			
	Stool pipe	20A - 50A (¾"-2")	1-2	1-3	
	Steel pipe	z	65A - 250A (2½"-10")	2-4	2-4
	Schedule 40		20A - 50A (¾"-2")	1-2	1-3
	Schedule 40		65A - 250A (2½"-10")	2-4	2-4
Stainless	Thin wall stainless steel (SU pipe)	Nominal size	20 - 25Su		0.5
steel			30Su - 75Su		0.5-1
			80Su - 125Su		1-2
			150Su		1-3
Pla	astic pipe (Vinyl chloride / F	Polye	ethylene pipe)	1-2	1-2
	Cast iron pip		2-4		
		Thickness	1 - 2 mm		0.5-1
	Section steel		2 - 3 mm		1-3
Steel			3 - 4 mm	1-2	1-3
Sleel			>= 4 mm	2-4	2-4
	Doundhor		=< 15 mm	1-2	1-3
	Round bar		16 - 40 mm	2-4	

Saw blade essentials

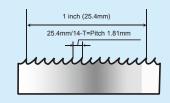
Two types available Alloy blade for steel pipe HSS blade for stainless steel pipe

What is the difference between the 14-tooth and the

18-tooth blade? 14-T: Provides a sharper, faster cut 18-T: More precise for right angles but slower than the14-T

What does "tooth" mean?

14-tooth means there are 14 teeth per inch (25.4mm).



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