

## Machinery

### BS-461 AS Band saw



#### Features

- 600 x 440mm (W x H) rectangular capacity
- Swivel head dual mitre to 45° left & 60° right for easy angle cutting without moving material
- Semi-automatic operation, machine returns to open height position after finishing the cutting process
- Automatic 2 speed full stroke hydraulic clamping vice
- Hydraulic operated system raising and lowering the cutting beam
- Adjustable hydraulic feed cutting rate for multiple applications
- Blade breakage sensor fitted that automatically shuts machine off
- Built-in coolant system for maximum cutting efficiency
- Variable blade speed system enabling 26-80mpm cutting speeds
- Limit switch stops machine and raises cutting beam when cut is complete
- Swiveling electric control panel mounted on base for quick operation
- Industrial-duty gearbox driven by a 3.75kW / 5hp 415V motor
- Combination roller bearing & carbide blade guides
- Fabricated metal frame with heavy duty base
- Adjustable blade roller guides provides accurate cutting
- Adjustable length stops for repetition cutting
- Motorised wire wheel brush to clean swarf from blade
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#### Includes

- Coolant system
- Length stop

The BS-461AS is a metal cutting dual mitre swivel head, semi-automatic band saw capable of cutting a large 600x 440mm rectangle material and is a great semi-automatic band saw for cutting at 90 degrees. This saw can also cut up to 460mm round material, meaning you get more value for your investment than with any other saw on the market. Quick release lever allows the operator to change the mitre angle in seconds. This gear driven metal cutting band saw we offer has a variable speed, dual mitre cutting head, and a hydraulic controlled descent device for perfect feeds and longer blade life. The vice uses a full stroke hydraulic clamping system and after the cut is complete the blade stops, the vice opens and the head lifts to the start position for the next piece to be cut, the start position is adjustable via an adjustable micro switch at rear of machine to the desired height. The Hafco MetalMaster band saws are constructed of a heavy cast iron saw head and base and the blades are guided via a tungsten carbide insert offering rigidity and accuracy. This band saw has a powerful coolant system and a blade tensioning device that shuts down the machine if the blade breaks.

The BS-461AS metal band saw has a hydraulic descent control device for the down feed for larger production runs that increases blade life and reduces operator fatigue. This series of band saw requires 415V, three phase, 50 hertz. The BS-461AS semi automatic horizontal band saw has a dual mitre saw head that can cut from 0° to 60° degrees. This series of horizontal band saws come standard with a variable speed drive allowing the operator to fine tune the blade speed from 26 - 80 M/min. The BS-461AS metal cutting saw series requires a 41mm wide saw blade by 1.3mm thickness, making this series a very precise mitre saw. These band saws offer more cutting capacity in a variable speed mitre saw than any other saw on the market, for the investment representing quality band saws at an exceptional value.

## Compact Rotator



5 Ton capacity ideal for pipe spooling fabrication complete with idle rollers

## CNC Profile Cutter



### New Pusan profile cutter

#### 1. Model, Specification & Technical Parameters:

1.1. Model: EcoCut 4000mm x 12000mm CNC Flame & Plasma Cutting Machine

#### 1.2. Specification:

- Track Width : 4000 mm
- Track length: 12000 mm
- Effective cutting width : 3000 mm
- Effective cutting length : 9000 mm

#### 1.3. Technical parameters

- 1.3.1. Rapid positioning speed: 0 – 12000 mm/min stepless adjustable
- 1.3.2. Longitudinal guiding accuracy:
- 1.3.3. Repeatability accuracy:
- 1.3.4. Cutting accuracy:
- 1.3.5. Cutting material:  
Mild steel, Stainless steel, Aluminum
- 1.3.6. Cutting thickness:  
Plasma cutting thickness: according to the plasma system  
Flame cutting thickness:  
- Mild steel : Max 150 mm
- 1.3.7. Working media: (Utility supply requirement, purchaser's scope of supply)
- 1.3.8. Power supply requirement:  
Machine powerbase 220V, single phase (±10%), 50 Hz, 6 KVA

#### 1. Control system

Hypertherm EDGEPRO CNC system

- Mother board with CPU 2.4GHz
- Memory 512 MB RAM
- Operation system Microsoft Windows XP
- USB interface for reading part program in USB disk
- Floppy drive 1.44", Industrial hardened 80.0 GB
- 15" LCD torch screen
- 43 pre-programmed shapes from which more than 200 different shapes can be programmed

- Ability to use and display real-time motion and I/O data
- Choice of industry-standard EIA RS-274D or ISO 6582 ESSI part programming languages
- English or metric units
- Scale part, mirror part
- Repeat shape with three grid patterns
- Plate alignment
- Kerf compensation between pierce points
- Forward and Backup along path with off-path lead-in and cut-loss recovery
- Complete built-in diagnostics for checkout and test

### 3. Machine parts

#### 3.1. Mechanical parts

- 3.1.1. Gantry type structure
- 3.1.2. High tension high accuracy Dual side driven rack & pinion drive
- 3.1.3. Automatic wear compensation by high tension cup spring keeps the engagement of the pinion in this rack free of backlash.

#### 3.2. Drive system

- 3.2.1. Panasonic servo motor and driver system for Dual longitudinal & transverse direction, Max. poisoning speed 12 m/min
- 3.2.2. Dual side AC driven system for longitudinal side
- 3.2.3. Transverse driven on master carriage
- 3.2.4. Free of maintenance Neugart planetary gearbox , 3 sets
- 3.3. Anti collision system & proximity protection
  - 3.3.1. Limit switch on both side of longitudinal track end, with mechanical bumpers, provide emergency collision protection.
  - 3.3.2. Electrical limit switches installed on both end side of transverse track & torch suspension, together with mechanical bumper, provide emergency collision protection
  - 3.3.3. Track wiper device
  - 3.3.4. Transverse drag chain & floor type longitudinal drag chain, including drag chain support

#### 3.4 Hypertherm ArcGlide 1set

- with plasma torch lifter system
- with Anti collision system & IHS system
- with plasma Arc Auto height controlle
- with laser point

#### 3.5 gas torch 1 set

Auto ignition 1set

#### 3.6 transverse drag chain system 2 sets

## Motorman Robot



Robotic Welding Station, Yasnac ERC Model K10S comprising track mounted

## Funac Robot



## Pedrazzoli Pipe Bender





## Used Pedrazzoli Bending Machines:

CNC Pedrazzoli Universal Brown 42mm Capacity Hydraulic Draw Mandrel Tube Bender

This hydraulic operated machine is designed for large scale production of metal tube structures with a diameter of up to 42mm.

Max Bending Capacity: 42mm diameter x 2.5mm thick

Min inside bending radius with standard spindle: 22mm

Max Centre line bending radius: 255mm

Max Centre line bending radius with sliding pipe follower: 175mm

Max angle of bending: 180 degrees

Motor Power: 7.5Hp

Motor Speed: 1450rpm

Number of stops on the programming drum: 8

Number of stops on the mandrel rod: 8

Oil capacity Litres: 120

Rotating radius chuck

large variety of tooling included: Formers, Rollers and Mandrels

## Miller Big Blue Mobile Welder 600 X



## Deutz Diesel Engine

MIG (GMAW)  
Flux Cored (FCAW)  
DC TIG (GTAW)  
Submerged Arc (SAW)  
Air Carbon Arc (CAC-A)  
MODE  
CC/CV/DC 20 - 600 A 500 A at 25 V, (20 kW),  
100% Duty Cycle  
550 A at 34 V, (18.7 kW)  
60% Duty Cycle  
600 A at 30 V, (18 kW),  
40% Duty Cycle

Peak:  
5,500 Watts  
Continuous:  
4,000 Watts  
17 A, 240 VAC,  
60 Hz  
H: 1092  
W: 724  
D: 1654  
Shipping: 769kg  
\*Additional 86kg

***When fuel tank is full***

## CNC Plasma Cutter, Komatsu Model KCR0448, Razor Series, bed size approx 333



CNC Plasma Cutter, Komatsu Model KCR0448, Razor Series, bed size approx 3330 x 1600mm, overhead travelling single traverse cutting head, 48" x 96" cutting area, 1.5mm to 25mm capacity, 1/4" at 100% duty cycle and up to 3/8" at 60% duty cycle, cutting speed 300 IMP, rapid traverse for quick positioning, Komatsu plasma power supply unit, Model TDK-200-40PCYI, remote Auspac computer system controller together with overhead steel RHS framed, galvanised sheet metal canopy hood, approx 4200 x 3100 x 570mm ceiling chain suspended with side wall mounted extraction fan unit with 3 x 200mm dia inlets and flexible ducting, 415 volt hard wired (208112-23)