



- **WBS500 – Manual Blast Cabinet**
  - Flexible nozzle control
  - Totally enclosed cabinet
  - 3 jaw clamping mechanism
  - Integrated control cabinet
- **WBS1000 – Manual & Automatic Blast Cabinet**
  - Programmable automatic cycle
  - Twin rotating automatic nozzle
  - Dual cabinet design, blast manual & automatic simultaneously
  - Integrated control cabinet
- **WBS Ancillary Components**
  - Drag Conveyor System
  - High Pressure Pump
  - Filtration System

# WBS 500

The WBS 500 manual blast cabinet has been designed with maximum flexibility in mind. The totally enclosed cabinet ensures operator safety while the large viewing window maintains excellent vision of the part:

## Design Features:

### ▪ Flexible nozzle control

The nozzle tilt functions are controlled via the operator joystick movement while up/down, in/out and tree rotate functions are actioned via the joystick buttons. The blast force is not transferred onto the operator, reducing operator fatigue, however the responsive control still maintains a degree of 'feel' within the nozzle movements.

### ▪ 3 Jaw clamping mechanism

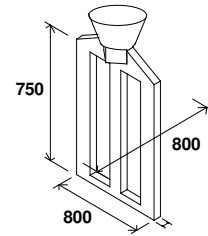
The three jaw system utilises the pouring cup of the investment casting runner tree forming a secure grip. The tree is clamped using high force only once the tree is safely within the blast cabinet, minimising the risk or injury. The jaws can be custom designed to suit a wide range of cup sizes (Cup Dimension are required before acceptance of order).

### ▪ Integration

The WBS 500 control cabinet easily integrates the drag conveyor, high pressure pump and filtration system into one system, providing one easy to use control panel which will also display fault messages and protect other system components in the event of malfunction.

## Specifications:

	US	Metric
A. Overall Length	47 in	1200 mm
B. Overall Width (Approx.)	47 in	1200 mm
C. Overall Height	94 in	2400 mm
D. Pressure Requirements	10,000 psi	700 Bar
E. Part Rotation	360°	360°
F. Machine Weight (Approx.)	2220 lb	1000 Kg



\* Approx tree size only – contact A W Bell Machinery for more detail

# WBS 1000

The WBS 1000 adds to the WBS 500 cabinet an automatic chamber, enabling automated blasting of the investment cast tree. The dual chamber system allows maximum shell removal from the automatic chamber before removing hard to access shell material with the manual blast nozzle.

## Design Features:

### ▪ Programmable cycle

The fully programmable automatic cycle provides for part storage of over 500 different parts. Stored parameters include tree dimensions and blast patterns to accurately and efficiently remove maximum shell material.

### ▪ Twin rotating nozzle

The twin rotating nozzle is combined with tilt control, up/down and in/out motion as well as tree rotation to maximise access to all areas of the investment cast tree.

### ▪ Dual Cabinet

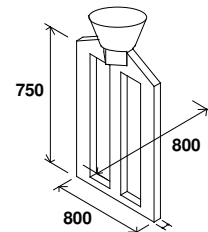
The ability to blast simultaneously in both the automatic and manual chambers means that while blasting one tree in the automatic chamber, the previously automatically blast tree can be finished cleaned (if necessary) in the manual chamber.

### ▪ Automatic transfer system

Once loaded onto the loading station, the tree is automatically taken into the cabinet. This system allows for simultaneous transfer of three trees, loading station into auto cabinet, auto cabinet into manual cabinet and manual cabinet to unloading station. This continuous flow technique can achieve much higher production efficiency.

## Specifications:

	US	Metric
A. Overall Length	47 in	1200 mm
B. Overall Width (Approx.)	94 in	2400 mm
C. Overall Height	94 in	2400 mm
D. Pressure Requirements	10,000 psi	700 Bar
E. Part Rotation	360°	360°
F. Machine Weight (Approx.)	3960 lb	1800 Kg



\* Approx tree size only – contact A W Bell Machinery for more detail