

Timesavers Twin Head Flatbed Machine 12 Series 600 WW

Stock No	PF1219
Manufacturer	Timesavers
Model	12-600-WW
Year of Manufacture	2007
Serial	G2394-02
Condition	From a working environment, Good Condition, Current Model
R.P.M.	Head 1: 1500 □ Head 2: 1500
Hp/Kw	Hd 1 7.5kW /10Hp : Hd 2 5.5kW / 7.5Hp
Other Info	Belt width 600mm
Weight (kgs)	1190
External Dimensions (WxDxH mm)	1160 x 1570 x 1820

Description

Timesavers 12 series 600 WW Wide Belt Grinding Machine for Grinding, finishing and removal of burrs

A wide belt grinder is a stationary machine which grinds the surfaces of work pieces with rotating, endless, wide & abrasive belts

The purpose of grinding or deburring is:

- **Elimination of burrs or radiussing edges;**
- **A high-quality finish or a combination of both**

Function

The work piece to be ground is fed into the machine at the infeed side. The conveyor belt feeds the work piece through the machine.

During conveyance the pressure rollers push the work piece against the conveyor belt. When the work piece is fed through the machine, it is processed by the contact roller heads The contact rollers are driven by V-belts and electric motors.

The contact roller head consists of a contact roller and a tension roller around which an abrasive belt is tensioned. The tension roller is used to tension the abrasive belt and to track it by means of the oscillation. The abrasive belt is driven by the contact roller. Passing under the contact roller, the work piece is ground. Then it leaves the machine at the outfeed side.

The work piece can be ground with one or two heads in one pass.

The conveyor table is adjustable in height and suitable for work pieces of different thickness.
Through the dust hood the dust which is produced during grinding is extracted.

Machine Application

Type of product: Flat parts

Minimal dimensions (w x d x h): Any size that will stay on the conveyor belt during the process

Maximal dimensions (w x d x h): 600 x n/a x 125 mm



Maximal weight: 25 kg

Type of material: Steel, stainless steel and aluminium

Results after operation: Finished and burrs removed (All materials must be free from Oil and Grease)

Machine features

Operation

- Easy operation by means of pushbuttons with light indicator on/off.
- Load meter indicates percentage of motor load, allowing full use of grinding belts and available horsepower.
- Transport Speed control
- Height Adjustment

Conveyor

- Product conveyor table is constructed of heavy plate steel. Precision-machined top mounted on four synchronized lead screws.
- Conveyor belt, super-grip profile, oil resistant driven by variable feed unit.
- Motorized table height adjustment 1 to 125 mm suitable for almost every part.
- Thickness read-out in mm.

Pressure rollers for accurate guiding of parts

- Pressure rollers: oil and heat resistant, plain-faced rolls to ensure positive feeding of most parts. These rollers are covered with thick high flexible rubber for spring load action.

Additional equipment

- Main frame: fabricated of heavy steel plate properly ribbed to avoid vibration and deflection.
- Dynamic balancing: all high-speed rollers and contact roller are dynamically balanced to prevent hammering-out of vital parts and preserve machine life.
- Access doors on operation side of the machine for maintenance and quick change of abrasive belts.
- Dust extraction funnel where the dust is formed to ensure cleaner, better and more consistent work.
- Brake, stops grinding head when limit switch is tripped or estop is activated.
- Main switch door lock.
- Hour counter.

Safety

- Finger protection if the hinged guard is triggered, conveyor will stop immediately.
- If a door is opened during operation, the machine will stop automatically.
- Emergency stops at infeed- and outfeed side of the machine.

Technical specifications

General specifications 12-600-WW		

Max. working width	600	mm
Abrasive belt length x width	1525 x 630	mm
Table height opening	1 - 125	mm
Speed		
Feed speed freq. controlled, variable speed	1.5 - 9	m/min.
Electrical		
Main motor belt heads	2 x 7.5	kW
Conveyor motor	0.75	kW
Electrical connection	400	Volt
Mains frequency	50	Hz
Control voltage	110	V
Compressed air		
Air pressure required	6	Bar
Air consumption	30	l/min.
Total dust extraction capacity		
Extraction capacity required at 100 mm WC	± 2000	m ³ /h
Weight unpacked		
Weight of machine	Approx. 1200	Kg

Wide abrasive belt contact roller heads (WW)

For deburring and finishing

- Contact roller: 120mm diameter made of special “flexible” vulcanized rubber with special profiled and grooved face making it suitable for deburring and finishing.
- Single speed main motor.



- Hand wheel fine adjustment for head height.
- Quick release bolt that locks and unlocks for quick change of abrasive belts and provides rigid support of the grinding head.
- Grinding belt tension: air operated and activated by a switch. Air tensioning automatically compensates for belt stretch. Machine cannot be started unless belt is tensioned.
- Grinding belt tracking: a photoelectric system automatically keeps the fast revolving abrasive belt on the head. Due to this life time of belt improves.
- Belt trimmer: knob to further adjust the abrasive belt.

Machine Specification

Work width 600 mm Abrasive belt 1525 x 630 mm Electronic oscillation

Grinding head 1

Contact roller head Contact roller 65° Shore Main motor 7.5 kW // 10Hp

Grinding head 2

Contact roller head Contact roller 45° Shore Main motor 5.5 kW // 7.5Hp

Table and feed

- Motorized table height adjustment 1-127 mm, digital read out
- Conveyor motor 0.75 kW
- Feed speed frequency-inverted, 1.5-9 m/min
- Pressure rollers spring loaded

Other

Main switch 400 Volt, 50 Hz

Sound pressure level ca. 79 dBA

Only 1868 Run Hours

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.