

# CR-TB Cross-Belt Sander

Calibrating & Sanding Solutions

## BENEFITS

IMEAS **CR-TB** is a truly value added sanding machine that allows to:

- reduce the surface roughness of the board
- drastically decrease the need of paints and varnish
- reduce the costs of finished products
- remove defects related to abrasive belt wearing.



*Superior surface finish through  
a re-invented concept*

## ENVIRONMENTAL FRIENDLY

The cross-belt sanding is a process that helps environment through the reduction of used paints and solvents.

## BELT REPLACEMENT SYSTEM

Abrasive belt replacement is now easier than ever, thanks to the revolutionary built-in motorized trolley installed just in front of each sanding unit.

In few minutes the machine is ready to sand again and again!

Introduced by IMEAS for the first time in the

late '70s, the cross-belt sander (**CR-TB**) is particularly advisable for MDF, HDF or chipboard panels that are then bound to be varnished, painted or coated with light melamine papers.

The underling concept consists of the cross-cutting of the “micro-peaks” that are part of the normal roughness of each wood-based panel; this allows to reduce it and to obtain a more homogeneous and consistent surface.

The innovative “Chevron guide belt” and the exclusive built-in abrasive belt replacement systems make this machine much more productive and reliable than any other available on the market.

CR-TB machines can be fully integrated with other IMEAS solutions, such as MODULA and COMBI sanders, as well as products from others OEMs.



## General Data

### FRAMES & MATERIALS

- IMEAS uses only first choice materials from ISO 9001 certified companies.
- All frames are made of electro welded steel. They are stress relieved, sanded, prime-coated and painted.

### MOTORS

- High efficiency motors from ABB and Siemens.
- AC motors and frequency controllers control the feeding speed.
- Installed powers in accordance with the job to be performed

### CONTROL & INTERFACING

- PLC Siemens S7/300
- Easy to use graphical user interface with TFT operator panel
- ProfiBus™ connections by Siemens

### ELECTRIC CABINET

- Main switch for insulation from the main line power
- The cabinet is manufactured in disconnecting section for easy transport
- Full cooling or conditioned<sup>(3)</sup>

### PNEUMATIC PLANT

- Located on the machine back side for fully accessibility
- Emergency tank
- Lockable inlet, monometer and pressure adjustment

### NOTES

1. Certified working speed for continuous operation.
2. Only available on high-speed rotating bearings.
3. Some of these features may be available at extra price.

IMEAS spa reserves the right to change any data without notice.

## Data sheet & Comparison chart

MODELS	CR-TB/190	CR-TB/260	CR-TB/320
No. of sanding units	2 opposite and counter-rotating platen units		
Type of process	Top/bottom cross sanding		
Useful widths	1900 mm	2600 mm	3200 mm
Thickness range	1,5 ÷ 200 mm		
Feeding speed	10÷100 m/min (120 m/min available as option)		
Working speed <sup>(1)</sup>	Up to 70 m/min		
Machine opening	Up to 300 mm		
Main motors	2x 18 kW	2x 18 kW	2x 18 kW
Sanding platen width	120 mm		
Abrasive belt width	200 mm		
Abrasive belt length	9.160 mm	10.560 mm	11.760 mm
Abrasive belt speed	38 m/s		
Exhaust air capacity	24.000 m <sup>3</sup> /h	31.000 m <sup>3</sup> /h	37.000 m <sup>3</sup> /h
Machine pass line	1950 mm		
Machine weight	14.000 kg	17.000 kg	21.000 kg

### STANDARD FEATURES

- Wide screen with touch panel graphical interface
- Pneumatic shock-absorption system on top feeding rolls
- Built-in abrasive belt replacement trolley
- Close circuit for platens cooling
- Long-life grease lubricated bearings<sup>(2)</sup>

### OPTIONAL FEATURES<sup>(3)</sup>

- Refrigerator for platens cooling
- Electronic interfacing and self-setting of working units position
- Sound proof cabin
- On board vibration control system