

## ||||||| CENTRIFUGAL DISK FINISHING SYSTEMS TT... / TT...-B |||||||



## TROWAL SURFACE FINISHING

### Single batch centrifugal disk finishing systems

#### Model range TT... / TT...-B

#### TOP PERFORMANCE!

Compared to vibratory surface finishing equipment the Trowal Turbotron centrifugal disk finishing systems offer a more than 10 times higher grinding performance. Turbotron machines are mainly used for removal of heavy burrs and edge breaking/radiusing of small to midsize mass-produced parts. However, their applications also include fine grinding, surface smoothing and even high gloss polishing.

#### THAT'S HOW IT WORKS

The centrifugal force of the rotating spinner (60 – 250 RPM) accelerates the media/work piece mass and pushes it up the inner wall of the stationary work bowl. With the diminishing kinetic energy gravity forces the media and work pieces to slide back onto the rotating spinner where the centrifugal force accelerates them again.



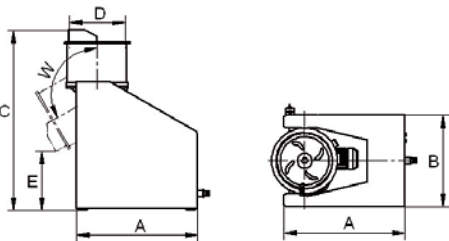
Machine type	TT 25	TT 45	TT 60-B	TT 90-B	TT 140-B
Work bowl gross volume (l)	25	45	60	90	140
Work piece batch sizes (l)*	16	5-28	6-40	8-60	14-100
Work bowl material	Steel fabrication with PU lining				
Drive system	Electric				
Installed power (kW)	1.5	2.2	4	4	11
Speed at 50 Hz (RPM)	235	235	213	213	178

\* Work piece geometry, material and risk of nicking are important for the determination of the media/work piece ratio

#### DIMENSIONS TT 25 AND TT 45

	A	B	C	D	E	W max.
TT 25	1,025	770	1,465	400	560	120°
TT 45	1,025	770	1,525	470	500	120°

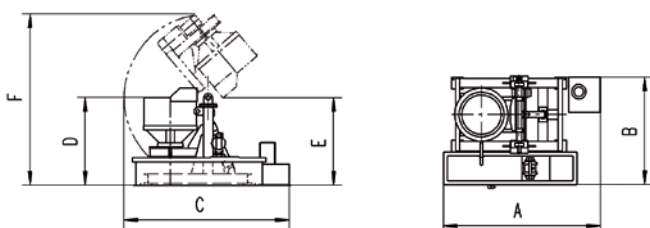
All dimensions in mm



#### DIMENSIONS TT...-B

	A	B	C	D	E	F
TT 60-B	2,000	1,370	2,100	1,070	1,180	2,180
TT 90-B	2,000	1,370	2,100	1,120	1,110	2,180
TT 140-B	2,250	1,700	2,450	1,260	1,270	2,500

All dimensions in mm



#### TT... RANGE

These low cost, stand-alone machines are intended for manual operation. They are not equipped with a work piece/media loader, vibratory screening machine or media return system. The work bowl of the TT systems is tilted as follows:

- TT 25, TT 45: With electric gear motor
- TT 60-B and larger models: Hydraulic

Partial automation is possible by the addition of peripheral equipment like loading and media/work piece separation systems.

#### ENGINEERED TO PERFORM

- Work bowl and spinner geometry allow fluid, unobstructed movement of the work pieces and media
- For finishing of extremely thin work pieces  $\geq 0.1$  mm a special machine design is available

#### TT 60-B AND LARGER MODELS

- Infinitely adjustable water level in the work bowl for different process intensities
- Variable spinner speed with frequency inverter
- Automatic adjustment of the gap between spinner and work bowl via PLC!
- Rinsing of the gap prevents premature wear of spinner and work bowl
- Anti blocking system prevents "fusing" between spinner and work bowl
- Monitoring of the temperature in the gap area with auto stop prevents damage to spinner and work bowl

**WALTHER  
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