



CR Clarke

Technology for Today's Plastics

Product Data Sheet

1550 Diamond Edge Polisher



Abbeon Cal, Inc.

Plastic Working Tools and Industrial Supplies

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1550 Diamond Edge Polisher

The 1550 is a high-quality diamond polishing machine, which can process plastic materials up to 50mm in thickness and unlimited length. The machine converts a sawn edge of material to a highly polished gloss. Alternative cutters are also available to produce a smooth satin finish.

The 1550 consists of a high-quality grinding spindle fitted with a balanced cutter hub with diamond tipped tooling. The spindle has a maximum speed of 20,000rpm, and is driven by a motor with electronic speed control. Material to be polished is loaded onto the infeed track, and guided across the cutter by a self-adjusting belt feed system. The infeed and outfeed tracks are fabricated into a single structure that is precisely machined and ground to ensure consistency over many years of operation.

While traversing across the cutter itself, our unique cutter cover ensures accurate alignment of the panel, even on short pieces. The 1550 can accommodate a maximum material thickness of 50mm, and thinner panels can be stacked for maximum output. The feed mechanism allows panels of any length to be processed, while for tall panels optional support rollers are available. The average transport speed is 0.8 – 1 metre per minute. The cutting process generates small chips of material, and these are extracted from beneath the cutter into an externally mounted extraction unit.

Specifications

Voltage	230V 50-60Hz
Max Current	9 Amps
Maximum Material Thickness	55mm (50mm + 10%)
Material Removed per Cut	0.75mm
Dimensions	2380 x 580 x 920mm
Weight	410kg

As with any Diamond Polishing machine, the cutter hub of the 1550 will eventually lose its edge and the polish quality will deteriorate. We offer a service exchange system so that, when this happens, you simply contact us and we will send a replacement cutter hub with fresh tools. Once the cutter hub is swapped over the original hub is returned to us for servicing ready for the next customer. Spare cutter hubs are available for high-volume users that need instant access to replacement cutters, and matt hubs are also available. These are ideal for finishing frosted materials and edges that require bonding.

Machine Dimensions (mm)

