



POWERPLATE PAT. PENDING

www.essentialpro.net | 800-331-8811

Innovative technology allows for extremely fast machining of channels and long life on a press.



Essential Products PowerPlate

TECHNICAL INFORMATION

The PowerPlate was developed using a new metallurgic process that allows the steel to substantially harden once it is exposed to pressure. Machining of steel cutting plates has never been this fast and easy. A plate that once took 3.5 hours can now be machined in less than 50 minutes. If the desire is not to machine the plate but to use it as a transfer plate for phenolics or matrix, the 10% additional thickness in our 1.15mm PowerPlate makes the plate more rigid and potentially longer lasting than the typical 1mm plate.

Hardness

PowerPlate tested by independent laboratory after 4 million impressions.

Available in 1.15mm and 1.5mm thicknesses.

Measuring from top down:

- .018" 46 HRC
- .025" 40 HRC
- .035" 36 HRC

Hardness: ASTM E18/E140/A370

Microhardness: ASTM E384

Machining

Cutting speeds using Essential Channel Bits with cold air coolant system.

Channel Bits wider than .075"	250 IPM
Channel Bits less than .075"	300 IPM
Spindle Speed	30-40k RPM
Plunge Speed	15 IPM

rotary boards

- Rayform Rotary
- TruLine Rotary
- Exact Rotary
- Maple Rotary
- Beech Rotary

flat boards

- Rayform DuraCore
- Rayform PolyCore
- Rayform DuraPly
- Exact Board
- Premium Maple
- Standard Maple
- Premium Euro Birch
- Premium Coated Euro Birch

specialty products

- EP CounterPlate
- DuraBlanker
- One Step Perma-Bond
- PowerPlate
- EP Channel Bits

