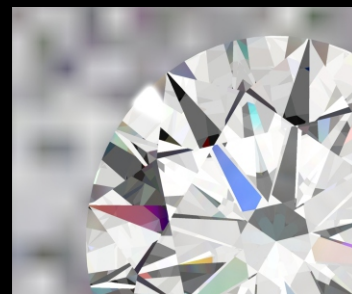


Make Your Diamond With Ultimate Blooming Effect

Frequency Controller  
(RPM Controller)



## Application

To polish the diamond on diamond polishing scaife rotating between 1000 to 3600rpm, while holding the diamond in hand held tools and fixtures.

## Salient Features

- Duplex matched pair mounted in tandem at the tail - end supports the spindle under 500 N preload force. This ensures very high stiffness to take care of small unbalance force coming from the unbalanced Scaife.
- Due to planetary movement of scaife, you can achieve perfect smoothing on your stone.
- The presence of an inclusion in any crystal produces a certain amount of elastic strain or distortion in the surrounding lattice, and in some crystals including diamond, these strains cause the crystal to become birefringent. Hence the crystal viewed between polars is seen to pass light through the regions of strain, the light being more intense the greater the strain.
- Integral scaife drive allows use of open top mills, enhancing appearance of the factory and allowing easier operation. The complete drive assembly is dynamically balanced on high precision balancing machine developed specifically for this captive purpose. The super precision bearings are greased for life, and require no attention during their many years of service.
- Ergonomically designed unit ensures fatigue free working.
- Use of super precision P2/P4 quality matched pair angular contact bearings guarantee dynamic axial run out within 0.001 mm.
- Large 60 mm bore duplex matched pair, mounted in tandem at the nose - end ensures unmatched Life performance for years to come.
- Direct drive spindle eliminates source of vibration and trouble (belt).
- Ultimate rotational accuracy, due to quality manufacturing set up.
- Single piece stabilized spindle, resulting in maximum stability. (Scaife will be actually fixed on the Spindle, and not on a screwed - on flange).
- Available in 2 station and 4 station version. ( Any client specific design can be made available )
- Complete with Dust collection ducting system
- Cast iron top and filled frame ensures good damping.
- Machined top with anti-roll edge to avoid rolling down of pots placed on the table (Available in STD Model)
- Variable scaife rpm 1000 to 3600 (50Hz)
- Electronic brake.

## Specification :

➔ Weight	:	450 kg (May vary based on Model)
➔ Dimension	:	1025 x 725 x 930 (1900)mm
➔ Power Supply	:	415 V AC, 50 Hz, 3 Phase
➔ Maximum Power	:	Torque 5 Nm 1.5 kw (2 HP)
➔ No Load Current (Spindle drive)	:	0.4 to 0.6 Amp (415 V)
➔ Starting Current (Spindle drive)	:	10 Amp (415 V) - for 10seconds-On full load
➔ Normal On Load Current	:	1.0 to 1.2 Amp (415 V)
➔ Total Power Consumption In Unit	:	0.70kw/hr
➔ Spigot Size (Scaife Bore)	:	50mm - EXPANDING NOSE
➔ Planetary Drive Stroke	:	14mm
➔ Alignment Accuracy	:	0.005mm
➔ Planetary Drive Speed	:	9 Stroke/min
➔ Spindle Drive RPM	:	1000 to 3600 Variable
➔ Brake	:	Electronic brake

