

COMPOSITE MATERIAL

SCM – *Slitting & Chopping Machine*

Technical Specification



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Equipment

Input Material: Composite Flat Tape
Tolerance: Customer Specific
Output: Width 1mm – 6mm, Length 4mm - 16mm
Tolerance: Width +/-0.100mm, Length +/- 0.5mm (material dependent)

Speed Chopping Head: Up to 360 rev/min or 6 rev/sec
Speed Drive/Feed Unit: Up to 14.4 m/min or 24cm/sec
Speed Drive/Slitting Head: Up to 15 m/min or 25cm/sec

Construction

Framework: Anodised Extruded Aluminium
Die Set/Bolster: Steel & Aluminium Ground Plate
4 Precision Ground, Hardened Shafts
Precision Linear Guidance
Blades Slitting: 102mm Dia. x 0.5mm Thickness
4mm Tapered Bevel & Separately Ground Tip
Precision Ground Hardened Strip Steel
Blades Chopping: 4 Blades per Head (33mm Wide)
Precision Ground High Grade Through Hardened Tool Steel

Slitting Head & Blade Change Time

Less Than 5 Minutes (Including Support Roller)

Drives

Vertical Motion: 4 x Pneumatic Cylinder (Flow Controlled)
Slitting Rotation: 1 x 24Volt Brushless DC Motor (with Speed Adjustment)
Horizontal Motion: 1 x 24Volt Brushless DC Motor (with Speed Adjustment)
Chopping Rotation: 1 x 48Volt Brushless DC Motor (with Speed Adjustment)

Supplies

Electrical: AC 230V +/- 6% (50Hz)
Phase: Single Phase
Consumption: 2kVA / T15A
Connection: Standard IEC Socket
Pneumatic: 2 Supplies - Min 6 Bar (85 PSI) / Max 8 Bar (115 PSI)
Consumption: 11 l/s or 23 cfm (dual manifold/split supply)

Approximate Dimensions (Equipment)

Length: 1200mm
Height: 1300mm
Depth: 600mm

Motion Control

PLC: Siemens
Manifold(s): 2 x 6 Way, 24VDC Pilot, Pneumatic Control System
Valve Gear: 6 Pilot x 50 Million Cycle Lifetime
Rotation Sensing: 2 x 24VDC Inductive Switch

Weight

Equipment: 275kg (606lbs)

Accessories

Tool Kit
Mains Leads Pneumatic Connections
Mains Leads Electrical Connection
Operation & Service Manual

Extras

Spare Slitting Blade Assembly
Spare Chopping Blade Assembly

