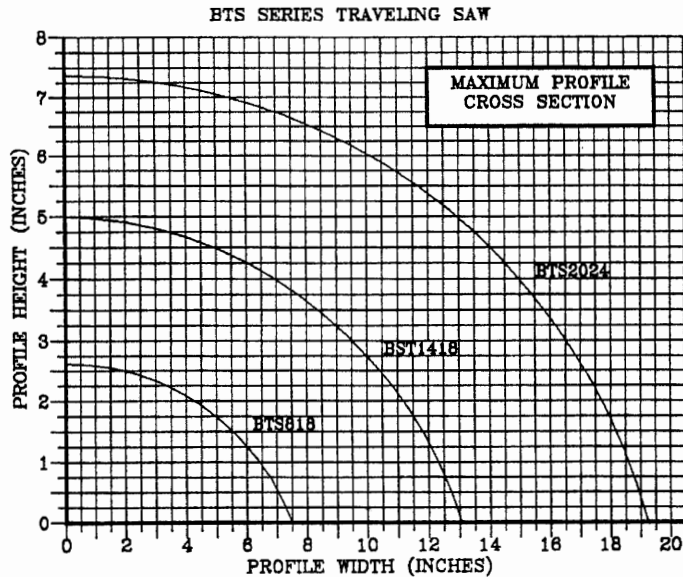


BTS SERIES TRAVELING SAW



MODELS AVAILABLE:

Model Number	Blade Dia. (ins.)	Travel (ins.)	Drive Horsepower	Max. Capacity Round Part Dia. (ins.)	Max. Capacity Rectangular Part
BTS818	8	18	1	2 5/8	See chart shown below
BTS1418	14	18	2	5	
BTS2024	20	24	3	7 3/8	



APPLICATION:

The Vulcan BTS Series Traveling Saw is designed to cut semi-rigid plastics extrudates to predetermined lengths while the extrudate is in motion. Upon receipt of a cut length signal, the traveling saw carriage is clamped to the extrudate and is air cylinder assisted to maintain synchronization with the line speed while the cutting operation takes place. Vulcan combines the clamping and saw blade feed operation into one cylinder motion, improving the cut accuracy and saw durability.

DRIVE AND ELECTRICAL SERVICE:

- Drive horsepower is as shown in Table
 - Motor drives saw blade through positive drive belt
 - Sheave diameters set for cutting speeds of approximately 10,000 SFPM
- Standard electrical service of 230 or 460 Volt, 3 Phase, 60 Hertz is required

SAW BLADE CARRIAGE:

- Saw cuts while extrudate moves at line speed
- Adjustable displacement air clamps hold extrudate to carriage top plate
 - Carriage moves with extrudate on lineal bearings
 - Carriage travel assisted by air cylinder, pressure adjustable - provides desired tension or compression in extrudate
- Carriage stroke and saw blade stroke adjustable
 - Provides for sufficient clamp time
 - Provides for higher cycle rates on smaller sections
- Carriage returns at a faster velocity to reduce cycle time
- Automatic release in the event of over-travel

CUTTING RATE:

- Maximum saw cycle rate - 30 cycles/minute
- Maximum line speed
 - Saws with 18" max. travel - 45fpm
 - Saws with 24" max. travel - 60 fpm

INSTRUMENTATION AND CONTROLS:

- Carriage movement assisted by air cylinder
 - Regulator with gauge controls the amount of assistance provided
- Hand knob for adjusting the height of blade above table top
- Regulator with gauge for main system pressure control
- Speed control valve for carriage return rate control
- Separate speed control valves for controlling up and down movement of blade
- Two Emergency Stop push buttons
- Cycle Termination button
 - Stops cycle
 - Returns carriage to start position without cutting power to unit
 - Allows continuation of automatic cycle without manual start-up
- Manual cycle push button
 - Completes one cycle and stops
- Saw motor Start and Stop push buttons

OPTIONS:

- Programmable cut length system
- Vacuum chip collection system
- Electrical other than 230 or 460 V, 3PH, 60 HZ
- Saw blade furnished only as optional accessory
 - Customer generally furnishes blade to his specification
 - Vulcan will furnish blade as option if customer desires

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