

GEAR DRIVEN BELT PULLERS



MODELS AVAILABLE:

Model Number	Belt Width (Ins.)	Belt Contact Length (Ins.)	DC-SCR Driven Units DRIVE HP	Servo Driven Units Drive Torque (IN.LBS)
GBP310	3	10	1	32
GBP424	4	24	1 1/2	70
GBP636	6	36	3	115
GBP848	8	48	5	190

DESCRIPTION:

Vulcan's All Gear Driven Puller is designed to provide a precisely controlled pulling force and speed through the use of a DC/SCR digitally controlled motor or for even more precise applications a servo-motor driven and digitally controlled drive. An all important additional difference between Vulcan Pullers, and those on the market today, is Vulcan's all gear drive features double reducer output shafts, with one shaft directly driving the lower carriage. The other reducer output shaft drives the upper carriage head pulley through a set of direction changing spur gears and an articulated drive shaft that will transmit power at any nip opening.

FRAME:

- Precision heavy wall tubing and plate weldment
- Two swivel and two rigid casters
- Combination height adjusters and floor locks
 - Center-line adjustment - 40 to 45 inches
- See-through Lexan®
 - Conformance to Vulcan's interpretation of OSHA requirements
- Frame design allows complete access to open nip for start-up

DRIVE:

- **(Standard):**DC/SCR Digitally Controlled - 16 Bit Microprocessor Controller
 - Closed loop speed control
 - Speed ranges to suit customer requirement
 - Speed regulation digital drive with ± 2 RPM on motor output shaft
 - Drive Horsepower (DC/SCR) or Drive Torque (Servo Motor) are shown in table
- **(Optional):** Servo Driven and Controlled Units
 - AC brushless servo motor
 - Speed range in excess of 1000 to 1 with speed regulation in excess of .001%
 - Velocity and position closed looping - speed ramping possible
 - RS232 or RS485 communication possible

DRIVE TRAIN:

- VULCAN PULLER DRIVES FROM MOTOR OUTPUT SHAFT TO UPPER AND LOWER CARRIAGE HEAD PULLEY ARE GEAR DRIVEN
 - No belts, chains or sprockets

BELT CARRIAGE:

- Belts are of Poly-V Construction
 - Belt travels over bed of support rollers
 - Belt material is a 45 durometer non-marking natural rubber compound
- Upper Carriage Actuation
 - Pneumatically actuated
 - Nip opening - 4 inch minimum
 - Hand wheel actuated positive carriage stops for setting closed nip dimension
 - Closed nip dimension can be changed under load

CONTROLS AND ELECTRICAL:

- Controls
 - Power/Drive On
 - Emergency Stop - Buttons located on front and both ends of puller
 - Nip Open
 - Nip Closed
 - Nip opens and drive stops automatically when guard doors are opened
- Fully Programmable Speed Control
 - Touch key pad entry of desired line speed
 - Security lock-out provisions
 - Master/slave mode capability
- Electrical - 230 Volt, 1 Phase, 60 Hertz (for DC/SCR drives) 230V/3PH/60HZ (for servo)

OPTIONS:

- Electrical other than 230 Volt, 60 Hertz
- Higher Horsepower Drives on Some Models
- Remote Speed Control with 50 Ft. Cable
- Four-speed Transmissions for Expanded Speed Ranges (not required with optional servo drive)

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