


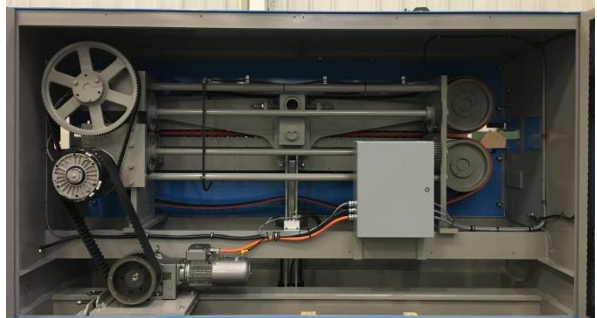
*The MGS Group*



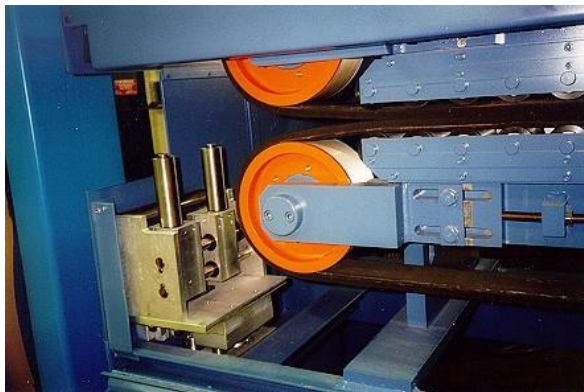
# MGS SERIES LC LINEAR CAPSTAN

*MGS Series LC Linear Capstans are engineered and constructed for low maintenance and continuous service. They are equally at home running conventional cables or sophisticated fiber optic products.*

## SPECIAL FEATURES:

- MGS Linear Capstans combine classic simplicity with features unavailable on competitive models. Qualities that make these Capstans outstanding include:
  - A differential in the drive system to precisely match the speed and pulling effort of each belt. Cable scuffing is eliminated and belt life is extended.
  - Treads open and close to follow changes in cable diameter. The lower tread is always horizontal, while the upper one can “scissor” when adjusting to different diameters.
  - Cable centerline elevation is constant for all diameters. Standard elevation is 42.25 inches.
  - Opening and closing of treads is normally accomplished with pushbuttons.
  - On models with a pulling force of 2,000 pounds or less, a single air cylinder provides loading of all rollers along the full length of the upper and lower belts for uniform pressure to the product.
  - Belt tension is adjusted by jackscrew when the machine is idle. Since the entire tread moves during opening and closing, belt tension is always uniform.
  - Belts have a flat continuous (seamless) surface of 3/8-inch thick neoprene. Belts are poly-V type with grooved pulleys to effectively prevent lateral movement. Slide back up and timing belts are available.
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- The motor drive plate has been designed to allow for easy and accurate belt tensioning. The entire unit can be changed from a pullout to a metering Capstan in the field with minimum down time. The use of an AC Vector motor, for most applications, has eliminated the need for a transmission with improvements in performance within a wide range of operating parameters.
  - Both ends of the Capstan have large, side-hinged panels for maintenance access. The rear-meshed guards are hinged and are painted flat black for ease in viewing inside the cabinet. An externally mounted grease manifold allows for greasing components without shutting down the equipment. The drive train is entirely contained inside the cabinet.

- The entrance and exit guide roll assemblies are mounted inside the cabinet, which improves tracking of the product between the upper and lower belt. The positioning of the guide rolls is pneumatically actuated for operator convenience and safety.
- The guide rolls can be lowered below the pass line for easy and quick string up. The roller guides positioning is adjustable and held by pneumatic pressure, which keeps the product centered while allowing for the passage of lumps or knots.



## SPECIFICATIONS

Capstan Model	Pulling Capacity		Max Speed		Cable Contact		Max Cable Diameter		Belt Width		Dimensions Inch(es) L x W x H
	LBS / KG		FPM / MPM		IN / CM		IN / MM	IN / MM			
36D	500	227	800	244	36	91	4	102	3	76.2	57x34x58¼
50.4D	1000	454	800	244	50.4	128	4	102	3	76.2	89x38x58¼
50.4DW	1000	454	800	244	50.4	128	5	127	4½	114.3	89x38x58¼
50.4DW-HD	2000	907	800	244	50.4	128	5	127	4½	114.3	89x38x58¼
72DW-HD	2000	907	600	183	72.0	183	5	127	4½	114.3	115x38x58¼
96D	1000	454	800	244	96.0	244	5	127	4½	114.3	147¼x38x58¼
62.7D	3100	1406	800	244	62.7	159	7	178	5¼	133.4	113x50x64
100.8DWHD	4000	1814	600	183	100.8	256	5	127	4½	114.3	178 x38x58¼

## OPTIONAL EQUIPMENT:

- An air operated belt tension system permits rapid belt changes. This is particularly useful when profiled belts are used.
- A power operated sliding base allows the entire machine to be moved for alignment when multiple groove profiled belts are used.

MGS / HALL designs and manufactures product handling solutions which include Payoffs, Takeups, Dancers, Accumulators, Measuring Machines, and Capstans to handle most any product from sensitive optical fiber to 1000MCM (507-mm<sup>2</sup>) power cable. We also can handle odd shapes, tubing, ribbon, and tape.

Our Automatic and Semiautomatic Takeups are extremely reliable for on-line packaging of a wide range of products and reels at high speeds, resulting in significant cost savings. Machines that are built to meet the specifications of the individual customer is a characteristic of MGS/HALL systems. Comprehensive design and engineering capabilities together with meticulous manufacturing techniques and careful testing assure customer satisfaction. Some say we design machines with the user in mind. We like to think we're in the business of solving problems for other business –like yours!

***The MGS Group***

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