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Solving Problems!

The MGS Group

MGS Manufacturing
HALL Industries

NMC NORTHAMPTON

SLB 800 / 36” DOUBLE TWIST MACHINE

The SLB 800 is available in three versions.

The **SLB 800MAC** has one motor on the machine which drives the main rotor. The takeup reel is driven by a mechanical friction clutch. No slip rings are required, as the machine is completely mechanical. Includes gears for lay control.

The **SLB 800EAC** is the same size and construction as the SLB 800M and includes a AC motor to drive the takeup reel instead of the friction clutch. Slip rings are required. Takeup tension is adjustable from the outside and is constant as reel fills from barrel to flange.

The **SLB 800DAC** is the same size and construction as the SLB 800E and includes an additional AC motor driving the capstans to provide digital lay control. The operator selects the desired lay length on the HMI Screen.

Typical Range Of Products

Bunched Conductors	20 awg to 4 awg 0.50mm² to 25mm²
Stranded Conductors	7 & 19 wire constructions 18 awg to 6 awg 1.0mm² to 16mm²
Compacted/Compressed	Up to 8 awg (10mm²)
4 Pair Insulated	CAT 5, 5e, 6 (with isolator)
Insulated Cores	Up to 1/2” (12mm) diameter
Direction	Left-to-Right or Right-to-Left
Rotor (Bow) Speed	5000 twist per minute
Reel Size	36” flange (800 mm)
Lay Range	1/2” to 8” (12.5 mm to 200 mm)
Direction of Lay	Left or Right (S or Z)
Line Speed	1000 feet per minute (300 meters per minute)
Main Motor (bow)	AC
Reel Motor (SLB 800E & D)	AC
Capstan Motor (SLB800D only)	AC

PLC	Allen Bradley
HMI	12” AB OPTIX Touchscreen/pushbuttons
Drives	AB/Siemens/Yaskawa
Approximate Weight	13,200 pounds (6000 kg)
Dimensions	Length 12’ 6” (3820mm)
(Unpacked)	Width 6’ 11” (2110mm) Height 5’ 10” (1780mm)

Braking Time For The Bow

Normal stop 30 to 75 seconds preset
‘E’ stop – 5 to 10 seconds preset

CONSTRUCTION FEATURES:

Machine Design - Rotors, machine frame and loading system are all integrated in one unit. The Safety / Sound Enclosure can be isolated from mainframe. Integrated control cabinet.

Machine Frame - Stress relieved torsion-free steel fabrication.

Safety / Sound - Self-supporting construction

Enclosure - electrically locked during operation, operator door slides sideways, internal lighting, end access for service.

Bow - Carbon fibre with wear strip, aerodynamically designed
to reduce noise and power consumption.

Rotor Drive - Both rotors are driven from a common transmission shaft using timing belts.

Rotor - Statically and dynamically balanced and arranged for excellent wire path.

Reel Loading And Unloading - Foundation free, powered loading platform.

Rotor Lubrication - Grease lubrication.

Braking - By variable speed motor.

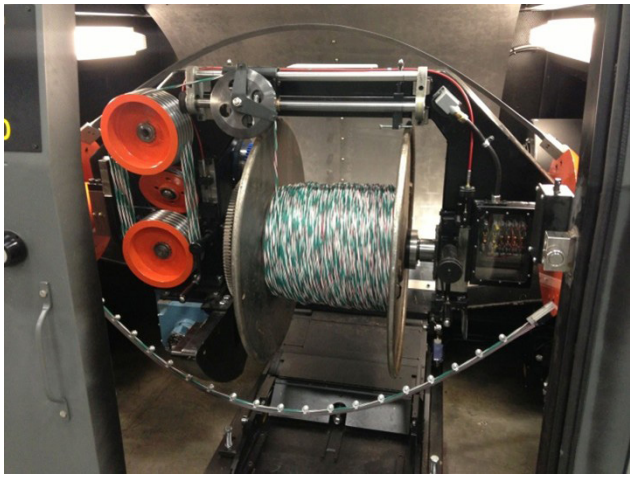
Capstan (SLB 800M & E) - Driven by change gears mechanically interlocked with rotor by timing belt drive.

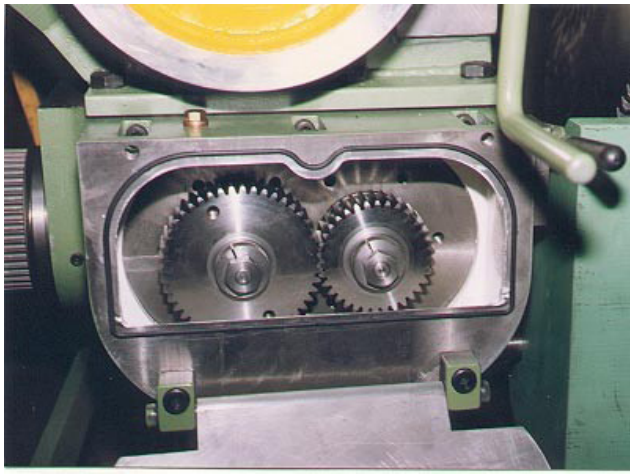
Traverse - By mechanical rolling ring assembly in MAC & EAC, AC Servo Motor in DAC.

Layplate - 2 pieces mounted on a stand, longitudinally adjustable.

Wire Break Monitoring - Contact strip on frame.

Safety Installations - Machine starts running with closed door only. Door can only be opened if rotor is not in motion. Emergency stop occurs during excessive movements of the cradle. Wire breaks strip on the machine frame.





Lay Gear Change Detail (SLB 800M & E)

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