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SLB 1600 / 72" DOUBLE TWIST MACHINE

The SLB 1600 is available in two versions.

The **SLB 1600EAC** is a two-motor version. One AC motor for the rotor and one AC motor for the takeup reel. Takeup tension is adjustable from the outside and is constant as reel fills from barrel to flange.

The **SLB 1600DAC** is the same size and construction as the SLB 1600EAC 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

Soft Annealed Copper (Bare Wire)

7 & 19 wire constructions

10 to 4/0 awg
(6mm² to 95mm²)

Compacted Compressed Dies

Up to 4/0 awg
(95 mm²)

Compacted Rolls (Sector Shape)

Up to 4/0 awg
(95 mm²)

Insulated Cores

3, 4 and 5 cores

Maximum Finished Cable Diameter 1-1/8" (28mm)

Approximate Machine Dimensions

Overall Length Excluding Layplate 25' 9"
(7900mm)

Overall Width 11' 10" (3385mm)

Overall Height 10' 6" (3200mm)

Approximate Net Weight 66,000 pounds
(30000kg)

General Specifications

Direction Left to Right or Right to Left

Rotor Speed 1400 twist per minute maximum

Drum Sizes

1600mm (72") flange dia. DIN standard Maximum



Weight Of Loaded Drum 17,800 pounds
(8000kg)

Lay Range Available 1.5" to 24" (38 to 600mm)
Direction Of Lay Left or Right (S or Z)

Line Speed 300 meters (1000 ft) per minute max.

Rotor Motor Drive AC

Takeup Drum Motor AC

Capstan Motor (SLB1600DAC only) AC

Traverse Motor AC Servo

Services Required

Air supply for brake
Main electrical supply to control panel

CONSTRUCTION FEATURES:

Machine Design - Rotors, baseframe and loading system are all integrated in one unit. The acoustic enclosure can be isolated from mainframe. Integrated control cabinet.

Machine Frame - Stress relieved torsion-free steel fabrication.

Bow - Carbon fiber with wear strip.

Guard/Acoustic Enclosure - Self-supporting construction, electrically locked during operation, operator door slides sideways, internal lighting, end access for servicing.

Take Up Tension - Adjustable from HMI, constant as reel fills from barrel to flange.

Rotor Drive - By transmission shaft to both rotors.

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

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

Rotor Lubrication - Grease lubrication.

Capstan - SLB1600EAC Driven by change gears mechanically interlocked with rotor by timing belt drive. SLB1600DAC Driven by AC motor.

Capstan Diameter – 2 x 573mm.

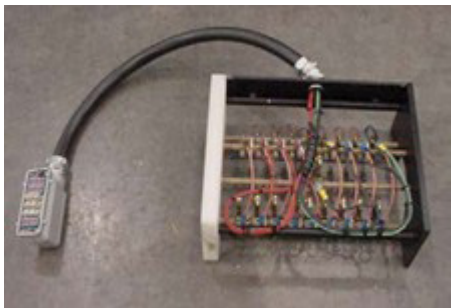
Traverse With Screw - By AC motor. Optional end points can be adjusted from outside during operation.

Layplate - 2 or 3 (product dependent) mounted on stand, longitudinally adjustable.

Wire Break Monitoring - Contact strip on baseframe and detectors at Capstan.

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 baseframe.

Operator Control Panel – AB 12" Optix (HMI) with all necessary instruments and operator controls. Operating screen, motor performance screen, and length measurement screen.



Design Highlight

Quick-change brush Holder assemblies with new constant tension brushes and new holders to reduce maintenance down time.

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