

# SLB 1600 / 72" DOUBLE TWIST MACHINE



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

The **SLB 1600D** is the same size and construction as the SLB 1600E and includes an additional DC 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 & 18/19 wire constructions

6mm<sup>2</sup> to 95mm<sup>2</sup>

10 to 4/0 awg

Compacted Compressed Dies Up to 95 mm<sup>2</sup>

4/0 awg

Compacted Rolls Up to 95 mm<sup>2</sup>

(Sector Shape) 4/0 awg

Insulated Cores 3, 4 and 5 cores

Maximum Finished Cable Diameter

28mm (1½")

**Approximate Machine Dimensions** 

Overall Length Excluding Layplate 7900mm

(25'9'')

**Overall Width** 3385mm (11' 10")

Overall Height 3200mm (10′ 6″)

Approximate Net Weight 30000kg

(66,000 pounds)

**Direction** Left to Right or Right to Left

**General Specifications** 

**Rotor Speed** 1400 twist per minute maximum

Drum Sizes 1600mm (72") flange dia. DIN standard

Maximum Weight of Loaded Drum 8000kg

(17,800 pounds)

Lay Range Available 38 to 600mm (1.5" to 24")

Direction Of Lay S or Z

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

Rotor Motor Drive AC

Takeup Drum Motor DC

Capstan Motor (SLB1600D only) DC

Traverse Motor DC

Noise Level At Operator Position 85 dBA

Services Required Air supply for brake

Main electrical supply to control panel

Capstan Diameter 2 x 573mm

**Rotor Lubrication** Grease lubrication

#### **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 fibre 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.

**Capstan** - SLB1600E Driven by change gears mechanically interlocked with rotor by timing belt drive. SLB1600D Driven by DC motor.

**Traverse With Screw** - By DC motor. End points are 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 - By (HMI) with all necessary instruments and operator controls. Operating screen, motor performance screen, and length measurement screen.







#### **Latest Enhancements**

- Large touchscreen HMI with detailed maintenance diagnostics
- Digital traverse set points adjust from outside during operation
- Quick-change brush holder assemblies with constant tension brushes and holders to reduce maintenance down time.

## The MGS Group

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