



## **DOUBLE TWIST MACHINE**

# SLB 1000 / 42"

#### The SLB 1000 is available in two versions.

The **SLB 1000E** 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 1000D is the same size and construction as the SLB 1000E 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

1.5mm<sup>2</sup> to 50mm<sup>2</sup>

16 to 1/0 awg

Up to 35 mm<sup>2</sup> Compacted Compressed Dies

2 awg

**Compacted Rolls** Up to 35 mm<sup>2</sup>

(Sector Shape) 2 awg

**Insulated Cores** 3, 4 and 5 cores

Maximum Finished Cable Diameter 17mm (0.67")

Direction Left-to-Right or Right-to-Left

Rotor (Bow) Speed 2800 twist per minute

**Reel Size** 1000 mm to DIN standard

(42" flange)

25mm to 400mm (1" to 15¾") Lay Range

2 x 300mm **Capstan Diameter** 

**Line Speed** 300 meters per minute

(1000 feet per minute)

**Main Motor** AC

**Reel Motor** DC

Capstan Motor (SLB 1000D only) DC

PLC Allen Bradley

**HMI** Touch screen and push buttons

**Drives** SSD

**Approximate Weight** 15,000 kg

(33,600 pounds)

**Dimensions** Length 5800mm (19' 0") Width 2360mm (7' 9") (Unpacked)

Height 2250mm (7' 4")

#### **Braking Time For The Bow**

Normal stop – 30 to 75 seconds preset 'E' stop - 5 to 10 seconds preset

**Rotor Lubrication Grease Lubrication** 

#### **CONSTRUCTION FEATURES:**

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

**Machine Frame** - Stress relieved torsion-free steel fabrication.

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

**Bow** - Carbon fibre with wear strip.

**Take Up Tension** - Adjustable from outside, 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 – Driven by change gears mechanically interlocked with rotor by timing belt drive. (SLB1000D driven by DC motor.)

**Traverse With Screw** - By DC motor. End points adjust from outside during operation.

**Layplate** - 2 pieces 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 frame.

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

www.themgsgroup.com | sales@themgsgroup.com | 315-337-3350