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SLB 1250 / 54" DOUBLE TWIST MACHINE

The SLB 1250 is available in two versions

The **SLB 1250EAC** 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 1250DAC** is the same size and construction as the SLB 1250EAC 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 2/0 awg
(70 mm²)

Compacted Rolls Up to 2/0 awg
(70 mm²)

Insulated Cores 3, 4 and 5 cores

Maximum Finished Cable Diameter
1" (25mm)

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

Rotor (Bow) Speed 1800 twist per minute

Reel Size to 54" flange
(1250 mm)

Lay Range 1-1/2" to 15-1/2" (39mm to 398mm)

Direction of Lay S or Z (Left or Right)

Line Speed 1000 feet per minute
(300 meters per minute)

Main Motor AC

Reel Motor AC



Capstan Motor (SLB 1250D only) AC

PLC Allen Bradley

HMI 12" AB Optix Touchscreen/Pushbuttons

Drives AB/Siemens/Yaskawa

Approximate Weight 50,600 pounds (23000 kg)

Dimensions (Unpacked)
22' 2" (Length 6740mm)
Width 10' 6" (3200mm)
Height 8' 6" (2600mm)

Braking Time For The Bow

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

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.

Rotor Lubrication - Grease lubrication.

Capstan – SLB1250EAC Driven by change gears mechanically interlocked with rotor by timing belt drive. SLB1250DAC driven by AC motor.

Capstan Diameter – 2 x 400mm.

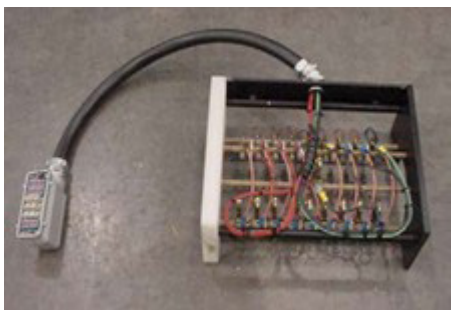
Traverse With Screw - By AC Servo motor. Optional end points can be adjusted from outside during operation.

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 – Standard 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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