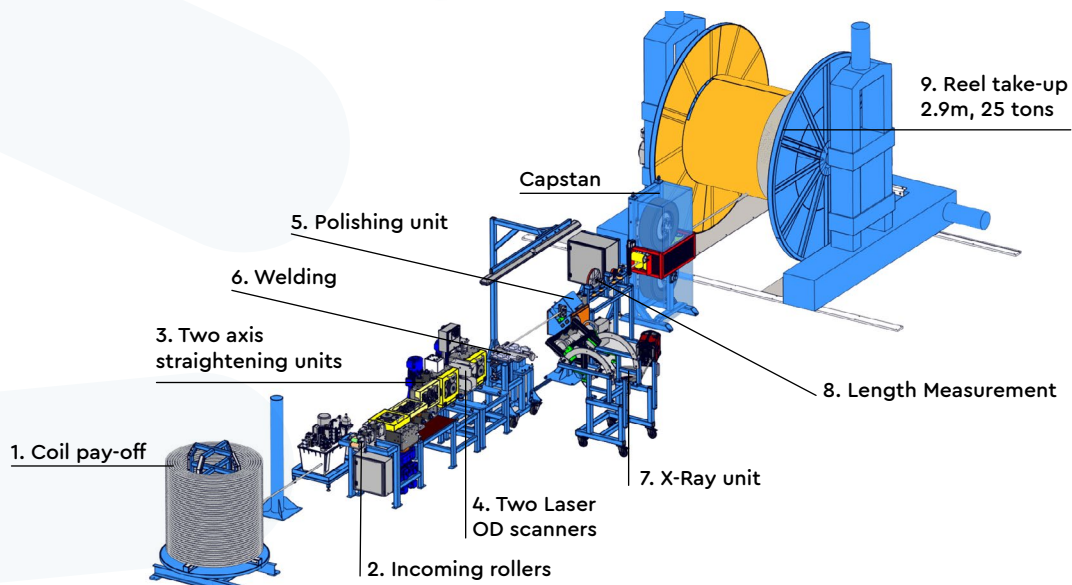


Rods & Wires Spooling lines

SEA is a leading supplier to the umbilical industry

SEA welds and spools duplex steel rods and wire rope in long continuous lengths, which are wound onto reels manufactured in-house. We operate two identical spooling lines that produce strength and weight elements for umbilical manufacturers.

For detailed information on available rod and wire specifications, please refer to the SEA Product Sheet - Rods



1. Coil Pay-Off



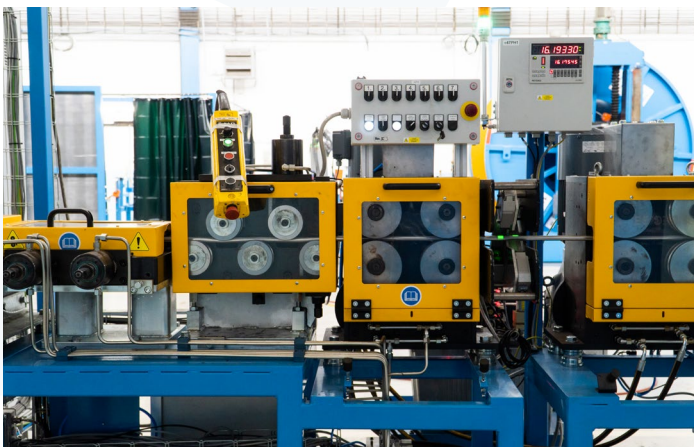
Rods & wires coil pay-off stand equipped with a safety bar and protective cage. All steel components of the stand are shielded with wood to prevent cross-contamination.

2. Incoming Rollers



Product guide units designed to precisely align the product and smoothly guide it into the two-axis straightening unit.

3. Straightening Unit



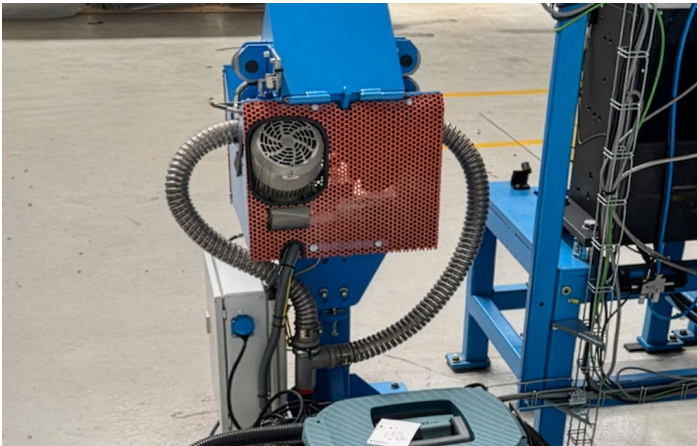
The straightening unit comprises one horizontal and one vertical straightening module, supported by three drive units. The drive wheels are custom-engineered to match the customer's required outer diameters. The fully automated process is capable of handling rods up to 20 mm OD, delivering an approximate pulling force of 18 kN.

4. Laser OD Scanner



Two laser units continuously monitor the outer diameter on two axes at 90° intervals. If the product exceeds the specified OD tolerance, the spooling line automatically stops. All continuous measurements are digitally recorded.

5. Polishing Machine



Product polishing machine designed to polish the material after straightening, featuring an integrated suction system that removes metal dust to prevent potential contamination.

6. Welding Table

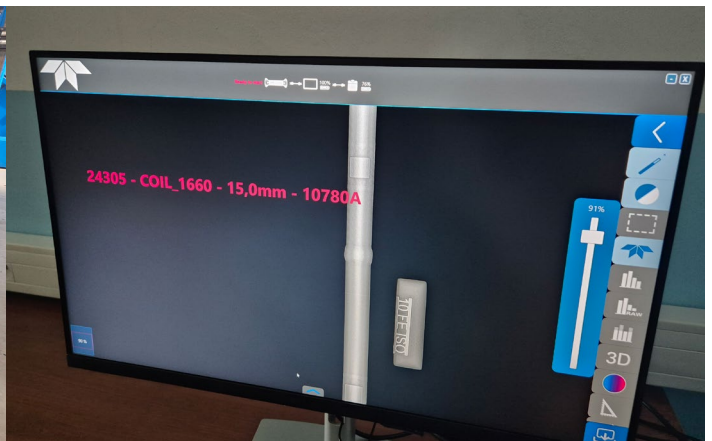


The welding station is engineered to produce full-penetration welds with controlled inter-pass cooling. The welding table is adjustable, allowing positioning at the optimal working location. All welders are certified in accordance with ISO 9606-1, and the welding process is qualified to ISO 3834-2 standards.

7. Radiographic X-Ray Weld Inspection



The X-ray machine is designed to capture images of each weld from three different angles. During operation, the area is fully shielded by a movable, lead-lined screen, and all X-ray functions are controlled remotely.



X-ray photographs are captured from three positions and are subject to quality control prior to the commencement of the spooling operation. All X-ray photographs are digitally stored.

8. Product Length Measurement



Length measuring device for measuring product length prior to spooling. As we also know the weight of each product OD and the weight of the empty reel, the measured product length can be cross-checked against the total weight of the spooled product.

9. Product Take-Up



The Skaltek take-up frame is used to spool the final product onto reels. It accommodates reels up to 2.9 m in diameter with a maximum take-up capacity of 25 tons. The maximum safe working load of the overhead crane is 17 tons, which limits the combined weight of the reel and product.

10. Packaging



The product is packaged in specialized porous materials to reduce the risk of tarnishing during transportation. If required by the customer, reels can additionally be covered with tarpaulins.

Let's keep in touch and reel in savings together.

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