

Wraptor™ highlights

- Standardized and consistent tests lead to more accurate predictions.
- 100 times greater surface area able to be examined compared to testing by knotting the line.
- Reduced risk of unplanned production stops, or of losing production equipment, through line breakage.
- Sturdy construction and design permits for use in tough environments.
- Suitable for both wrap-testing and torsion testing.

Reduce unplanned production stops through better ductility testing

The Wraptor™ is a portable ductility testing unit for performing both wrap-tests and torsion tests on slicklines in the field.

Wrapping a line around its own diameter exerts extreme pressure on the outer fiber of the line. Reduced ductility is immediately apparent. With the Wraptor, this test can be performed in a consistent way over and over again, with more accurate predictions as a result.

With the Wraptor, the length of the wire tested can be as much as 1 meter (3 feet) for a .125" line, and more for a .108" line. The surface area which can be examined will thus be up to a 100 times greater compared with the alternative method of simply knotting the line. Security and knowledge of the real condition of the wire will therefore be greatly increased and the risk of lowering a brittle line into a well will be drastically reduced.

Better predictions save money

The ability to more accurately predict the retirement point of a slickline can lead to considerable cost savings through the reduced risk of facing unplanned production

stops, as well as losing valuable production equipment.

This can also open up for a reduction in net working capital, as less spare equipment would need to be kept on the site location.

Ductility testing in theory

Wrap-testing is the recommended method for testing ductility in stainless and alloy wirelines. Torsion testing is recommended for testing ductility in carbon steel wirelines.

The reason for differentiating the two steel types is that carbon steel and stainless steels differ greatly in structure.

The isotropic (meaning ductile in all directions) structure of carbon steel makes torsion testing the ideal method for that product.

Anisotropic (meaning ductile in only one direction) stainless steels are best served by wrap-testing which exerts surface pressure only in the more suitable longitudinal direction.

More details on the theory behind this can be obtained from your local Sandvik office.



Technical data

Construction

The Sandvik Wraptor is a sturdy construction manufactured in aluminium and stainless steel, with a 3 mm thick, high-impact resistant polymer hinged cover.

Dimensions (approx.)

L 18", W 6", H 4"

(L 460 mm, W 150 mm, H 117 mm)

Weight

15 lbs (7 kgs).

28 lbs (13 kgs) including protective case.

Gears

Two gear ratios are included: 1:1 and 1:2.5.

Dimensional range

The dimensional range for which the Wraptor will function properly is 0.072"–0.160" (1.82 mm – 4.06 mm).

Recommended conditions for use

Recommended temperature limits are –4°F to +122°F (–20°C to +50°C). The Wraptor will withstand offshore sea-water environments without detrimental effect. The gear-box is maintenance-free and will keep sand and water out.

List of items included



1. Wrap test chuck
2. Wrap test bushing
3. Wire guide (plus spares)
4. Flat-nose pliers
5. Torsion test accessories
6. Allen (hex) key

7. Table fixtures
8. Handle
9. Magnifying glass (not shown in picture)
10. Wrap-test evaluation guide (not shown in picture)
11. Instruction manual (not shown in picture)

All items are supplied in a strong plastic carrier.

