



HORUS INNOVATIONS

F Z - L L C

*Oilfield & Natural Gas Equipment
and Spare Parts*

United Arab Emirates

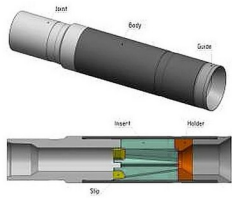




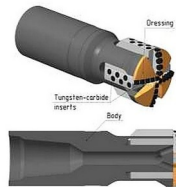
The complete range at a glance



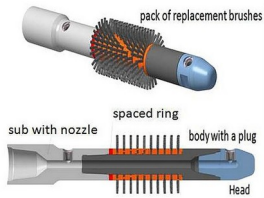
Drill bits



Fishing tools



Milling tools



Wellbore cleaning



Jars & circulation



Liner hangers



Packers & plugs



Coring

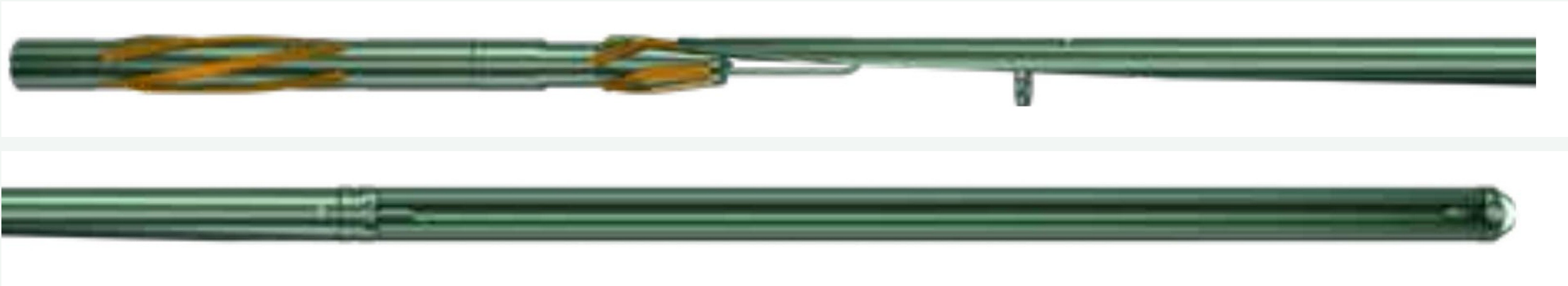


HIKOP hydraulic whipstock — our most requested system

HIKOP • KOT-OGN

Hydraulic whipstock

Anchor set by pump pressure at 1 900 psi and suspended in the casing. No cement plug and no bridge plug required below the wedge.



1 Watermelon mill

Reams the milled window to full gauge behind the lead mill

2 Starting mill

Carbide-dressed lead mill that cuts the window in the casing

3 Deflector wedge

2.5° ramp guiding the assembly into the new trajectory

4 Hydraulic anchor

Set by pump pressure at 1 900 psi; non-retrievable slips

Tool top at the left, read top row then bottom row • 27.33 ft (8 328.5 mm) total assembly • NC-50 (4 1/2 IF) • shear release 22 000 lbf (10 tf) • all whipstocks in this document are drawn to one common scale

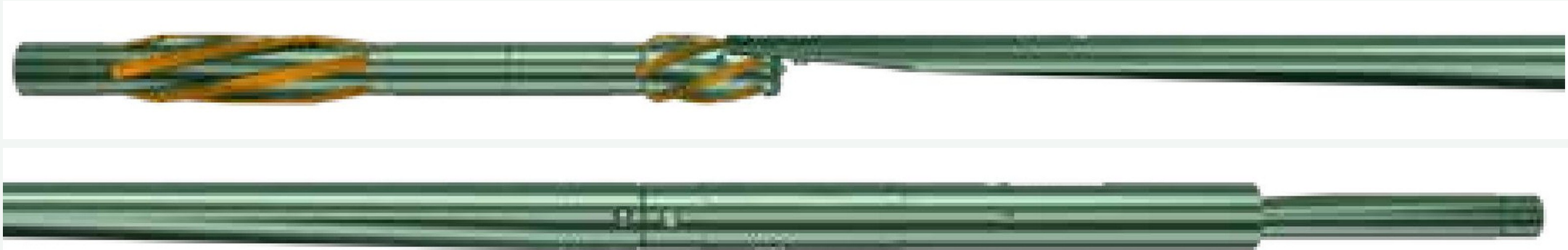


Mechanical and retrievable mechanical systems

HIKOM • KOT-OMN

Set and released mechanically on a bridge plug or cement bridge; re-settable downhole.

Mechanical whipstock



HIKOM-R • KOT-OMI

Recovered with a standard bell or catch hook to restore full access to the main wellbore.

Mechanical, retrievable



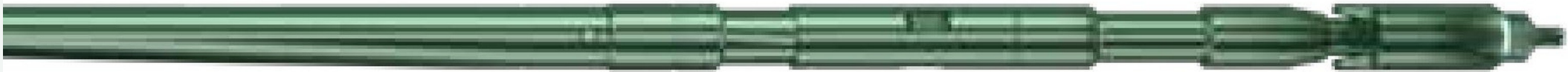


Hydro-mechanical and cemented systems

HIKOGM • KOT-OGMN

Hydro-mechanical

Two-stage set: hydraulic pre-set by direct injection, then a mechanical lock under string weight.



HIKOTS • KO-OCN

Cemented, open hole

Cemented anchor for sidetracking from an unlined interval or through unstable rock.





PDC, roller-cone and specialised bits from 3.19 in to 26 in



VD / SD

Large-diameter PDC



SD / RD

Sedimentary PDC



SDD / VDD

Hard-rock PDC



BD

Bi-centric



ID

Slotting

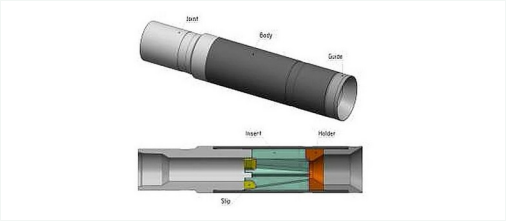


ED

Anti-chipping



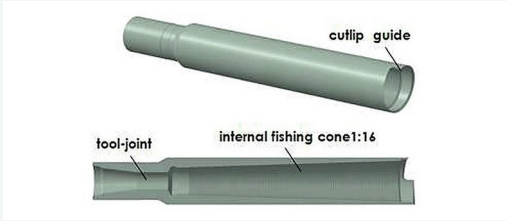
Recovering the well and returning it to full gauge



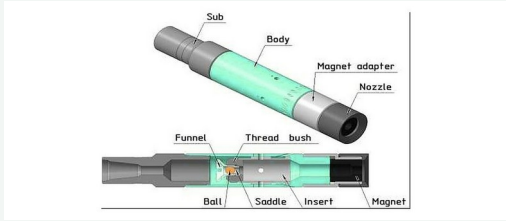
Overshots & spears



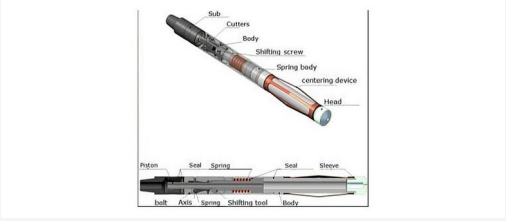
Taper taps



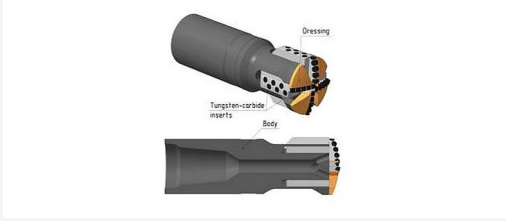
Die collars



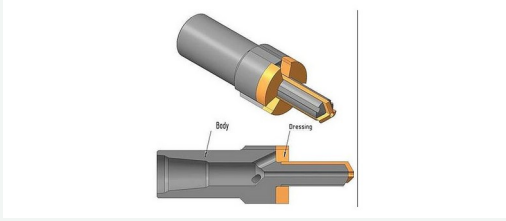
Magnets & junk baskets



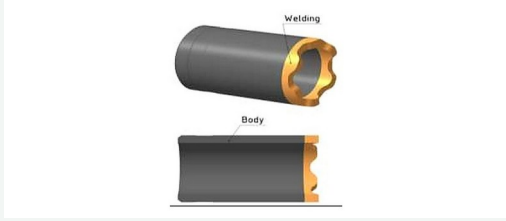
Pipe cutters



Junk mills



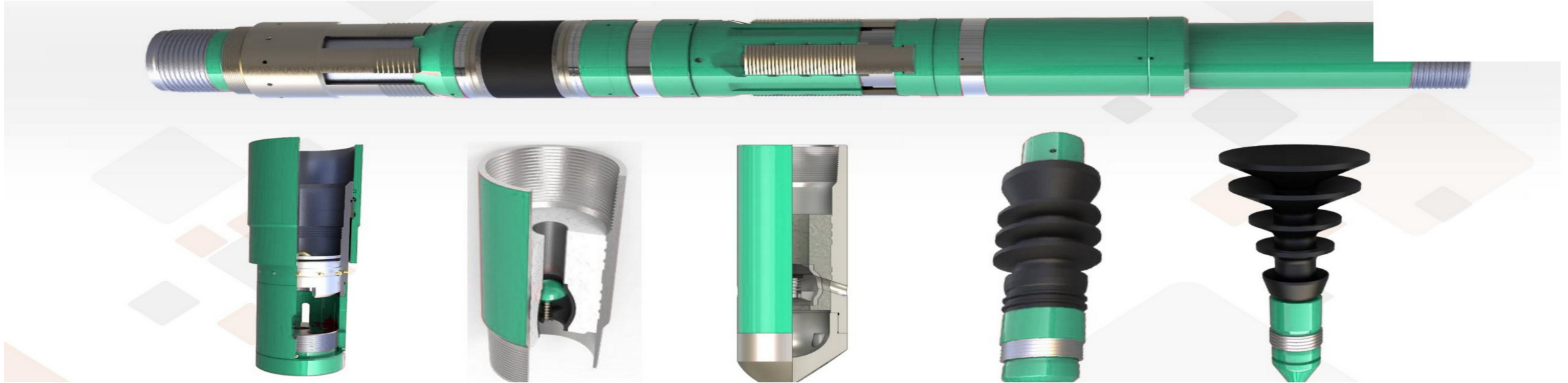
Pilot & taper mills



Washover shoes



Hydraulic, mechanical and premium — 3 1/2 in to 20 in



● Hydraulic

Rotating and non-rotating, arm / pocket / flex-grip slips, 15 000 psi available, validation to V0.

● Mechanical

Set by rotation or set-down weight; conventional and geothermal wells.

● Premium

Bonded seal element rated 15 000 psi and V0, balanced piston cylinder, no premature setting.

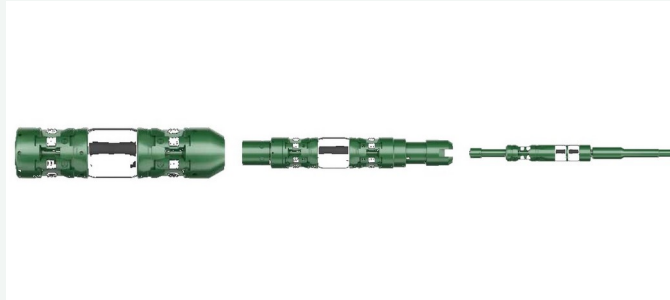


Packers, bridge plugs and casing accessories



Packers

Hydraulic, mechanical, ESP and permanent packers. 4 1/2 in to 13 3/8 in, up to 10 000 psi.



Bridge plugs & retainers

Mechanical, wireline, thru-tubing and hydromechanical. 2 3/8 in to 20 in, V6-R to V0-R.



Casing accessories

Centralisers, stop collars, scratchers, cement baskets, float equipment and stage tools.



Send us the specification.

A drawing, a part number or a line from your bill of materials is enough to start. You will get a written technical and commercial response.

E-MAIL

info@horus-intl.com

TELEPHONE

+971 58 259 6971

Horus Innovations FZ-LLC · United Arab Emirates

