



CORE BARREL



CORE BARREL TYPES

“BURINTEKH”, Ltd core barrels allow carrying out qualitative core recovery in rocks from I to IV category of core recovery complexity.

CORE BARRELS “VOSTOK”

Barrels “VOSTOK” designed for heavy drilling conditions, strong vibrations, complex rock cross-sections, high temperatures and pressures. Core barrels “VOSTOK” have reinforced tool joints, highly resourceful hanger and reinforced core catchers. Barrel can be equipped with additional sections.

CORE BARRELS “SIBERIA”

Core barrels “SIBERIA” were designed in accordance with the international requirements for core barrels. Reliable systems for coring with a great resource. Allow coring in various rocks. The line of core barrels “SIBERIA” worthy competes with the best world analogues.



7 1/4" x 4" SIBERIA.2/9 Core barrel Specification

Purpose: Heavy Duty Core barrel is purposed for recovery isolated and non-isolated core of nominal diameter 101,6 mm (4") in formations of all types of recovery difficulty by means of top drive, rotor (1, 2, 3, 4 sections) or downhole drilling motor (1 and 2 sections) by PDC and Impregnated core bits of 8-3/8"...12 1/4" sizes into metal – Aluminum or fiberglass tubes.

Features:

- Heavy duty connection threads
- Heavy duty mud lubricant thrust bearing
- Adjustable safety sub
- Pressure relief plug
- Allows different combinations of core catchers

Nomenclature:

SIBERIA – line of multipurpose Heavy Duty Core Barrels
 7.25" – outside diameter
 4" – core diameter
 2.9 – two sections of 30 feet each

Technical Parameters

Diameter of applicable core heads	8 3/8" – 12 1/4"
Outside body diameter	7-1/4"
Centralizers diameter	8-11/32"
Section length	30 ft.
Quantity of sections	2
Maximum permutable number of sections	20
Connection threads Top / Bottom	NC-50 (4 1/2 IF) / MK180
Connection type	Heavy Duty thread
Max allowed barrel body compression load "axial load"	22 Klbs
Max allowed barrel body tensile load	198 Klbs
Recommended flow rate during rotary drilling	158 – 750 gpm
Recommended rpm during rotary drilling,	40-90 rev/min
Top tool joint, box	NC50 – 4 1/2" IF
Makeup torque NC 50, (klb.ft)	11- 12.5
Bottom tool joint, pin	MK180x6x1:8Cn
Makeup torque MK180x6x1:8Cn (klb.ft)	19 -20
Drive System	Rotary / TDS / PDM
Core heads computability	PDC / TSP / IMPR.
Designed for Inner tube types	Fiber glass / Aluminum / Steel
Core Catching assemble	Single core catcher / Double Core catcher " Full closure system
Safety Joint	Attached to inner tube and allow to retrieve the inner tube incase of stuck
Gas relive valve	Applicable to gas relive valve in both core barrel and / or inner tubes





SIBERIA Core barrel specs and coring parameters



Core barrel "SIBERIA" is designed for standard core recovery operations using rotor, downhole motor and top drive. The standard core barrel assembly includes:

- Safety Joint for fast and accurate adjustment.
- External Stabilizers which are installed every 30 feet to the outer housing and centralize a barrel inside the well.
- Swivel Assembly which provides fixity of inner tube against core.
- Shoe Assembly which breaks, catches and lifts core from the bottom-hole.

Core Barrel Name (Barrel dia. x core Barrel dia.)	Basic Number Of Sections Included	Section Length (ft)	Standard Length (ft/m) 2 sections	Max. length Available * (ft / m)	Top Connection	Core Bit Connection **	Make-up Torque (klb.ft)	Recommended RPM rev/min	Recommended Flow Rate (GPM)	Recommended WOB (Klbs)
CBS 3-1/2 x 1-3/4	2	30	60/18	Not Limited	NC-26 (2-3/8" API *** IF)	T31HD	(2.5-3.5)	(40-90)	(79 – 253)	(4.4 – 11)
CBS 4-1/8 x 2-1/8	2	30	60/18		NC-31 (2-7/8" API *** IF)	T41HD	(5.5-7.5)	(40-90)	(79 – 253)	(4.4 – 11)
CBS 4-3/10 x 2-5/8	2	30	60/18		NC-31 (2-7/8" API *** IF)	T41HD	(5.5-7.5)	(40-90)	(79 – 253)	(4.4 – 11)
CBS 4-1/2 x 2-1/8	2	30	60/18		NC-31 (2-7/8" API *** IF)	T41HD	(5.5-7.5)	(40-90)	(79 – 253)	(4.4 – 11)
CBS 4-3/4 x 2-5/8	2	30	60/18		NC-38 (3-1/2" API *** IF)	T42HD	(7-8)	(40-90)	(79 – 253)	(4.4 – 11)
CBS 5-3/4 x 3-1/2	2	30	60/18		NC-38 (3-1/2" API *** IF)	T51HD	(7-8)	(40-90)	(79 – 253)	(4.4 – 11)
CBS 6-1/4 x 3	2	30	60/18		NC-50 (4-1/2" API *** IF)	T51HD	(11-12,5)	(40-90)	(79 – 253)	(4.4 – 11)
****CBS 6-1/4 x 4	2	30	60/18		NC-50 (4-1/2" API *** IF)	T51HD	(11-12,5)	(40-90)	(190 – 570)	(4.4 – 22)
****CBS 6-3/4 x 4	2	30	60/18		NC-50 (4-1/2" API *** IF)	T51HD	(11-12,5)	(40-90)	(190 – 570)	(4.4 – 22)
****CBS 7-2/3 x 4	2	30	60/18		NC-50 (4-1/2" API *** IF)	T71HD	(11-12,5)	(40-90)	(190 – 570)	(4.4 – 22)
****CBS 8 x 5-1/4	2	30	60/18		6-5/8" API REG	T81HD	(15-19,5)	(40-90)	(190 – 570)	(4.4 – 22)

*The number of additional sections should be calculated according to economic reasons.
 **It is possible to produce required thread based on a counterpart.
 *** Internal Flush (IF).
 **** WOB & Flow rate included both 8 1/2" and 12 1/4" Core heads.