

DRILLING INDUSTRY

Drill Rods & Drill Tubes

BERAL supply Drill seamless tubes used extensively in the manufacture of drill rods, drive rods, core barrels, casings, couplings and in the manufacture of diamond core drilling equipment. These tubes are manufactured from high-grade carbon / alloy steels and are precision cold drawn and heat treated. The controlled processing parameters used for the manufacture of Drill tubes not only make the tubes more machinable (enabling easy and accurate threading) but also give them the right metallurgical structure and mechanical properties to withstand the torsional, compressional and tensile stresses of diamond drilling.

Standard Drill Tube Specification

Drill tubes can be manufactured to the following standard specifications. Upon request these tubes can also be produced to the individual specifications of a particular customer.

ASTM / ASME	Swedish	BS	JIS	API
DCDMA	SIS - 74130 - IE	4019	G 3465	5 CT 5 D

Standard Drill Tube Grades

Grade	Mechanical Properties			Chemical Composition % (Avg.)				
	Yield Strength min. mpa.	Ultimate Tensile min.mpa.	Elongation min. (Gauge length 2")	C	Mn	Mo	Cr	V
550	550	620	13%	0.33	0.70	-	-	-
620	620	725	13%	0.42	1.50	-	-	-
N80	550	690	13%	0.20	1.50	-	-	-
G95	628	765	13%	0.33	1.60	-	-	-
710	710	820	13%	0.40	1.60	-	-	-
760	758	862	13%	0.35	1.60	0.35	0.60	0.18
4142	740	880	13%	0.45	1.00	0.25	0.10	-

Standard Drill Tube Sizes

Drill Tubes are manufactured in the following standard sizes. In addition they can be produced to any specific size within an outer diameter (OD) of 10mm to 140mm.

Drill Rod Tubes

Designation	Outer Diameter (mm)		Inner Diameter (mm)		Outer Diameter (inches)		Inner Diameter (inches)	
	min.	max.	min.	max.	min.	max.	min.	max.
AQ	44.275	44.675	34.820	35.070	1.743	1.758	1.370	1.380
BQ	55.475	55.875	45.950	46.200	2.184	2.200	1.810	1.819
NQ	69.775	70.175	60.070	60.320	2.747	2.763	2.365	2.375
HQ	88.890	89.290	77.750	78.000	3.500	3.515	3.061	3.071
PQ	114.240	114.740	102.820	103.170	4.497	4.517	4.048	4.062

'W' Design Flush Joint Casing Tubes

Designation	Outer Diameter (mm)		Inner Diameter (mm)		Outer Diameter (inches)		Inner Diameter (inches)	
	min.	max.	min.	max.	min.	max.	min.	max.
RW	35.365	35.765	30.320	30.480	1.392	1.408	1.190	1.200
EW	45.955	46.345	38.100	38.350	1.808	1.824	1.500	1.509
AW	57.075	57.475	48.420	48.670	2.247	2.262	1.906	1.916
BW	72.955	73.355	60.330	60.580	2.872	2.887	2.375	2.385
NW	88.890	89.290	76.330	76.580	3.499	3.515	3.005	3.015
HW	114.240	114.740	101.250	101.600	4.497	4.517	3.986	4.000

'X' Design Flush Coupled Casing Tubes

Designation	Outer Diameter (mm)		Inner Diameter (mm)		Outer Diameter (inches)		Inner Diameter (inches)	
	min.	max.	min.	max.	min.	max.	min.	max.
RX	36.365	36.765	30.320	30.480	1.431	1.447	1.190	1.200
EX	46.035	46.435	41.030	41.280	1.812	1.828	1.615	1.625
AX	57.075	57.475	50.550	50.800	2.247	2.262	1.990	2.000
BX	72.955	73.355	64.820	65.070	2.872	2.887	2.551	2.561

Drill Tube Tolerances

Outside Diameter: +/- 0.20mm

Inside Diameter: +/- 0.25mm

Concentricity: Within +/- 5% of mean wall thickness

Straightness: 1:2000mm

Drill Tube Tolerances

Drill tubes are generally supplied in unit lengths of 3000 mm (+5, -0). However supplies in other lengths can also be made upon request.

Kavacık Kavak Sokak. Smart Plaza B/423L

Beykoz/Istanbul/Turkey

T.0090 216 681 64 22

F.0090 216 681 63 01

Em. info@beral.com.tr