

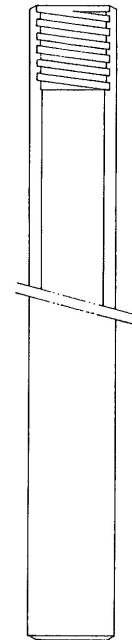
# BORING TOOLS

## Drill Rod (with coupling)

made of cold drawn steel tubing with square threads

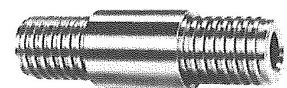
each rod is furnished with one flush coupling

Standard	JIS			TMS(TOHO)
Outside Diameter mm	40.5	50	50	45
Inside Diameter mm	31	37	37	33
Inside Diameter mm (Coupling)	20	22	22	20
Threads / Inch	4	4	4	4
Mass kg/3m	13	21.7	21.7	17.8
Length m	0.5	1.0	1.5	3.0



## Drill Rod Coupling

flush coupling with square threads on both side



## Drill Rod (F.W)

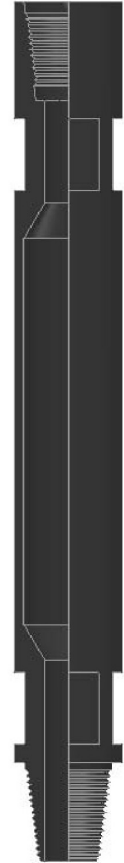
Original Rod with integral pin and box connection

Standard		JIS		TMS (TOHO)
Name		40.5	50	45
outside diameter mm		40.5	50	45
inside diameter mm		20	22	20
threads / Inch		4	4	4
Mass	0.5 m	2.7	4.0	3.3
	1.0 m	4.9	6.9	5.8
kg	1.5 m	6.1	9.7	9.5
	3.0 m	13.4	18.0	15.8



## Drill Rod

Name	outside diameter mm	inside diameter mm	Mass kg			
			0.5 m	1.0 m	1.5 m	3.0 m
50	50	22	3.9	6.7	9.4	18.0
60	60	25	6.1	9.8	13.8	26.5
73.1	73.1	32	9.1	14.9	20.3	34.2
76.1	76.1	35	10.1	17.1	23.1	40.3
80	80	40	10.8	17.7	24.0	42.7
89.1	89.1	45	13.8	22.2	29.8	51.5
101.6	101.6	54	17.5	29.5	38.7	64.8
114.3	114.3	60	22.7	36.0	47.1	79.1



## Drill Collar

Heavy steel tube designed to provide the additional weight needed when drilling with roller rock bit

Size	Outside Diameter	Inside Diameter	Connection	Mass kg	Length (m)	Bit Application (in)
100	100	30	2 <sup>7</sup> / <sub>8</sub> REG	80	1.5	4 <sup>1</sup> / <sub>2</sub> ~ 5 <sup>1</sup> / <sub>8</sub>
130	130	40	3 <sup>1</sup> / <sub>2</sub> REG	138.5	1.5	5 <sup>5</sup> / <sub>8</sub> ~ 6 <sup>3</sup> / <sub>4</sub>
150	150	50	4 <sup>1</sup> / <sub>2</sub> REG	179.1	1.5	7 <sup>3</sup> / <sub>8</sub> ~ 9
200	200	50	6 <sup>5</sup> / <sub>8</sub> REG	334.5	1.5	9 <sup>5</sup> / <sub>8</sub> ~ 10 <sup>5</sup> / <sub>8</sub>
250	250	60	6 <sup>5</sup> / <sub>8</sub> REG	530	1.5	11 ~ 14 <sup>3</sup> / <sub>4</sub>

(Note) Optional Size available on request besides listed above

