



Lo Torque Hole Opener

Imperial sizes



LT hole opener specifications

Body				Cutters			
Body	Min pilot hole	Connections	No of cutters	Opening range			
LT2	2 1/2"	2" IF P x B	3	6"			
LT4	4 1/2"	2 7/8" IF P x B	3	8"	10"		12"
LT6	6 1/2"	3 1/2" IF P x B	3	12"	14"		16"
				A	B	C	D
LT8	8 1/2"	4 1/2" IF P x B	3	16"	18"	20"	22"
LT16	16"	7 5/8" Reg. P x B	3	24"	26"	28"	30"
LT24	24"	7 5/8" Reg. P x B	4	32"	34"	36"	38"
LT32	32"	7 5/8" Reg. P x B	4	40"	42"	44"	46"
LT40	40"	7 5/8" Reg. P x B	4	48"	50"	52"	54"
LT48	48"	7 5/8" Reg. P x B	5	56"	58"	60"	62"

* Thread connections mentioned are in standard sizes. Other connections are available upon request.

Cutter specifications

Milled Tooth

Alluvial formations, clays, soft rock.
3–21 Mpa (500–3,000 PSI) compressive strength formations.

Formation types: Sandstone, shale, mudstone, clays, gravels and conglomerate.

Teeth are milled directly from the hard cone steel and tungsten hardfacing applied on the trailing edge to maintain sharpness of the blade. TCI gage row MT cutters available on special order.

TYPE 7 (IADC)

Medium – hard rock
83–172 Mpa (12,000 - 25,000 PSI) compressive strength rock

Formation Types: Granite, marble, and dolomite. TCI teeth have moderate extensions.

Gage area has all dome type cutters to maximize cutter gage life.

TYPE 5 (IADC)

Medium rock
41–103 Mpa (6,000 - 15,000 PSI) compressive strength rock

Formation types: Limestone, sandstone, and shale.

TCI teeth are aggressive conical shaped for aggressive penetration rates in medium type rock.

TYPE 8 (IADC)

Hard rock
172–310 Mpa (25,000 - 45,000 PSI) compressive strength rock

Formation Types: Quartz, basalt, and quartzite.

TCI teeth are all hemispherical shape, providing a longer cutter life in extremely hard rock.

Lo-Torque Hole Opener Cutters to match the formation hardness of your bore.

The Lo-Torque Tungsten Carbide Cutter types now range from medium to extremely hard rock formations. Close attention to insert material composition of gage, inner row and base areas of the cutters optimizes their performance in the wide range of rock conditions encountered in horizontal drilling.

Body and cutter weights – in lbs

Body	LT2 – 32			LT4 – 112			LT6 – 267			LT8 – 480			LT16 – 1188				LT24 – 1952				LT32 – 2712				LT40 – 3200				LT48 – 3407			
Body	LT2		LT4		LT6		LT8			LT16				LT24				LT32				LT40				LT48						
	2"	8"	10"	12"	12"	14"	16"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"	62"	
MT	2.9	4.0	7.9	11.9	15.0	22.9	30.8	31.9	46.9	63.8	84.3	31.9	46.9	63.8	84.3	31.9	46.9	63.8	84.3	31.9	46.9	63.8	84.3	31.9	46.9	63.8	84.3	31.9	46.9	63.8	84.3	
TCI	2.9	5.9	9.9	16.1	20.9	29.9	41.8	40.9	60.9	78.8	99.9	40.9	60.9	78.8	99.9	40.9	60.9	78.8	99.9	40.9	60.9	78.8	99.9	40.9	60.9	78.8	99.9	40.9	60.9	78.8	99.9	

* Weight in lbs per cutter

Prime Horizontal offices

www.primehorizontal.com

United States, Canada, Mexico, Brazil

Prime Horizontal Inc
1302 Gulf Boulevard, New Iberia, LA 70560 US
Ph (US): +1 337 359 9061
Ph (CA): +1 780 800 6614
Ph (BRZ): +55 71 3023 0934

Europe, China, Middle East

Prime Horizontal Ltd
Salland 3
1948 RE Beverwijk
The Netherlands
Phone: +31 251 271 790

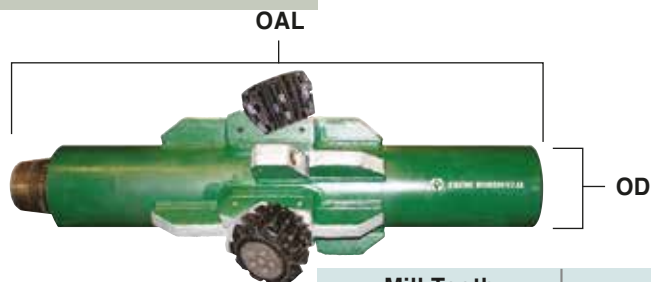
Australia, Southeast Asia, India

Prime Horizontal Australia Pty Ltd
10 Enterprise Street, Cleveland,
QLD 4163, Australia
Ph (AUS): +61 73 821 3684
Ph (IND): Phone: +91 997 172 9753



Lo Torque Hole Opener

Operating specifications– Imperial sizes



Body type	Pilot hole	Body thread P x B	No. of cutters	cutter series	Opening size	Mill Tooth		TCI		Body OD	OAL*
						WOB (000's lbs)	RPM's	WOB (000's lbs)	RPM's		
LT2	2 1/2"	2" IF	3		6"	3 – 7	50 – 80	3 – 7	30 – 60	2.5"	15"
LT4	4 1/2"	2 7/8" IF	3		8" – 12"	8 – 10	50 – 90	10 – 12	40 – 80	3.5"	26"
LT6	6 1/2"	3 1/2" IF	3		12" – 16"	10 – 15	40 – 100	15 – 20	35 – 90	4.5"	31"
LT8	8 1/2"	4 1/2" IF	3	A	16"	15 – 20	40 – 100	20 – 40	35 – 90	6.5"	36"
				B	18"	15 – 20	40 – 90	20 – 40	35 – 80		
				C	20"	15 – 20	40 – 80	20 – 40	35 – 80		
				D	22"	15 – 20	40 – 75	20 – 40	35 – 70		
LT16	16"	7 5/8" Reg.	3	A	24"	15 – 25	40 – 75	20 – 40	35 – 70	9.5"	42"
				B	26"	15 – 25	40 – 75	20 – 40	35 – 70		
				C	28"	15 – 25	40 – 75	20 – 40	35 – 70		
				D	30"	15 – 25	40 – 65	20 – 40	35 – 60		
LT24	24"	7 5/8" Reg.	4	A	32"	15 – 30	35 – 60	20 – 50	35 – 55	9.5"	42"
				B	34"	15 – 30	35 – 60	20 – 50	35 – 55		
				C	36"	15 – 30	35 – 60	20 – 50	35 – 55		
				D	38"	15 – 30	35 – 60	20 – 50	35 – 55		
LT32	32"	7 5/8" Reg.	4	A	40"	15 – 30	35 – 55	20 – 50	35 – 50	9.5"	42"
				B	42"	15 – 30	35 – 55	20 – 50	35 – 50		
				C	44"	15 – 30	35 – 55	20 – 50	35 – 50		
				D	46"	15 – 30	35 – 55	20 – 50	35 – 50		
LT40	40"	7 5/8" Reg.	4	A	48"	15 – 30	35 – 50	20 – 50	30 – 45	9.5"	42"
				B	50"	15 – 30	35 – 50	20 – 50	30 – 45		
				C	52"	15 – 30	35 – 50	20 – 50	30 – 45		
				D	54"	15 – 30	35 – 50	20 – 50	30 – 45		
LT48	48"	7 5/8" Reg.	5	A	56"	15 – 35	35 – 45	20 – 60	25 – 40	9.5"	42"
				B	58"	15 – 35	35 – 45	20 – 60	25 – 40		
				C	60"	15 – 35	35 – 45	20 – 60	25 – 40		
				D	62"	15 – 35	35 – 45	20 – 60	25 – 40		

Tips:

- Softer formations will normally respond to lighter weights and higher RPM's.
- Harder formations require more weight and slower RPM's
- Adjust weight and RPM to achieve optimum torque. Avoid uneven rotation of hole opener.
- Use sufficient fluid volume to obtain optimum hole cleaning.
- Proper centralisation will enhance tool performance and increase downhole life.

* Lengths apply for new bodies only.

The suggested weights and RPM's are only a recommended guide. Weights and RPM's should be adjusted to maximum penetration rates. They will vary with formation and rig power. Recommended weights assume minimum pilot hole sizes. As the cutting shoulder is reduced, less weight is needed.

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 1302 Gulf Boulevard, New Iberia, LA 70560 US
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