



TOP DRILL

PRODUCT CATALOGUE

- ▶ DTH Hammer Series
- ▶ DTH BIT Series
- ▶ Cluster Hammer Series
- ▶ Overburden Drilling System
- ▶ Other Products



CONSTRUCTION
MINING AND QUARRYING
WATER WELL AND GEOTHERMAL
EXPLORATION

DRILLING



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TOP DRILL

DTH Hammer Series

■ TG Hammer ■ TGX Hammer ■ TRC Hammer



TG HAMMER SERIES

TG hammer is TOPDRILL’s latest down the hole hammers design. In extensive testing, these state-of-the-art hammers perform well with increased power and more efficient drilling.

FEATURES AND BENEFITS

- Patented design transfers maximum energy output
- Offering solution for even larger holes
- Providing excellent durability with experienced quality control
- Easy maintenance and assembly structure
- Innovative Bit retainer system



TG HAMMER SPECIFICATIONS (Large size)

Model	TG450N		TG450C		TG550C		TG550CS		TG640C		TG800C		TG900C	
Connection	API 8 5/8" Reg. Pin, Hex Joint		API 8 5/8" Reg. Pin, Hex Joint		API 8 5/8" Reg. Pin, Hex Joint		Hex Joint		Hex Joint		Hex Joint		Hex Joint	
Bit Shank	N180		N180		N240		N240		TG640		TG800		TG900	
General Specifications	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
Recommended bit diameter	460 – 660	18 1/9 – 26	460 – 660	18 1/9 – 26	610 – 850	24 – 33 1/2	610 – 850	24 – 33 1/2	710 – 975	28 – 38 2/5	900 – 1,250	35 3/7 – 49 1/5	1,020 – 1,450	40 1/6 – 57
Outside Diameter	415	16,34	415	16,34	530	20,87	530	20,87	640,0	25,20	800,0	31,50	900,0	35,43
Length w/o connection & bit	1,872,0	73,7	2,065,8	81,3	1,872,0	73,7	1,967,0	77,4	2,134,0	84,0	2,242,5	88,3	2,188,0	86,1
Weight w/o bit	1,474,9	3,251,7	1,715,0	3,780,9	2,375,0	5,236,0	2,500,0	5,511,0	4,190,0	9,237,3	7,100,0	15,652,7	8,200,0	18,077,9
Backhead breakout pin hole (mm)	50 X 370 AF / 4–ø40		50 X 370 AF / 4–ø40		54 X 480 AF / 4–ø40		54 X 480 AF / 4–ø40		4–ø50		4–ø50		4–ø50	
Air Consumption														
6,9 BAR / 100 PSI (m³/min & cfm)	45,0	1,590	46,4	1,640	62,3	2,200	62,3	2,200	93,4	3,300	85,8	3,030	96,8	3,420
10,3 BAR / 150 PSI (m³/min & cfm)	64,7	2,285	66,2	2,340	96,2	3,400	96,2	3,400	113,2	4,000	139,0	4,910	150,6	5,320
13,8 BAR / 200 PSI (m³/min & cfm)	85,2	3,010	89,5	3,160	130,2	4,600	130,2	4,600	141,5	5,000	195,0	6,920	211,0	7,460
Available Options														
Bit Shank	SD18 / QL200 / TG450		SD18 / QL200		TG550		–		–		–		–	
Bit retainer system	YES		YES		YES		–		–		–		–	

TG HAMMER SERIES

TG hammer is TOPDRILL’s latest down the hole hammers design. In extensive testing, these state-of-the-art hammers perform well with increased power and more efficient drilling.

TG HAMMER SPECIFICATIONS (Medium size)

Model	TG100L		TG100N		TG120L		TG120N		TG125		TG320N		TG320S		TG370N		TG370S	
Connection	API 6 5/8" Reg. Pin, Hex Joint		API 6 5/8" Reg. Pin, Hex Joint		API 6 5/8" Reg. Pin, Hex Joint		API 6 5/8" Reg. Pin, Hex Joint		API 6 5/8" Reg. Pin, Hex Joint		API 8 5/8" Reg. Pin, Hex Joint		API 8 5/8" Reg. Pin, Hex Joint		API 8 5/8" Reg. Pin, Hex Joint		API 8 5/8" Reg. Pin, Hex Joint	
Bit Shank	SD10		SD10		SD12		SD12		N125		TG320		TG320		TG370		TG370	
General Specifications	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
Reversible casing	NO		NO		NO		NO		NO		NO		NO		NO		NO	
Recommended bit diameter	251 – 305	9 7/8 – 12	251 – 305	9 7/8 – 12	300 – 445	11 4/5 – 17 1/2	300 – 445	11 4/5 – 17 1/2	311 – 460	12 1/4 – 18 1/9	355 – 525	14 – 20 2/3	355 – 525	14 – 20 2/3	445 – 575	17 1/2 – 22 2/3	445 – 575	17 1/2 – 22 2/3
Outside Diameter	225.0	8.86	225.0	8.86	264.0	10.39	274.0	10.79	286.0	11.26	320.0	12.60	320.0	12.60	376.0	14.80	376.0	14.80
Length w/o connection & bit	1,387.0	54.6	1,487.0	58.5	1,615.0	63.6	1,788.0	70.4	1,684.0	66.3	1,739.0	68.4	1,985.0	78.2	1,910.0	75.2	2,075.0	81.7
Weight w/o bit	310.3	684.1	336.5	741.9	494.0	1,089	628.0	1,349.8	583.6	1,286.6	826.0	1,824.5	984.0	2,139.5	1,250.6	2,757.1	1,382.2	3,047.3
Backhead breakout pin hole (mm)	70 X 165 AF		70 X 165 AF		4–ø 40		4–ø 40		4–ø 40		4–ø 34		4–ø 34		4–ø 40		4–ø 40	
Air Consumption																		
10.3 BAR / 150 PSI (m³/min & cfm)	24.5	865	25.2	890	23.9	845	24.5	865	25.7	910	31.2	1,100	35.7	1,260	38.0	1,340	40.2	1,420
13.8 BAR / 200 PSI (m³/min & cfm)	29.6	1,045	30.9	1,090	32.3	1,140	34.2	1,210	37.0	1,310	42.8	1,510	47.6	1,680	51.0	1,800	54.1	1,910
17.2 BAR / 250 PSI (m³/min & cfm)	32.8	1,160	34.0	1,200	43.0	1,520	46.4	1,640	49.0	1,740	51.0	1,800	59.5	2,100	68.0	2,400	72.0	2,540
Available Options																		
Bit Shank	N100		–		N120 / DHD112 / DD10		DHD112 / N120		QL120		N125		–		SD15 / DD14		–	
Bit retainer system	YES		–		–		–		YES		–		–		YES		–	

TG HAMMER SPECIFICATIONS (Small size)

Model	TG35		TG40		TG50		TG60		TGR60		TG70		TG80		TGR80		TG90	
Connection	API 2 3/8" Reg. Pin		API 2 3/8" Reg. Pin		API 3 1/2" Reg. Pin		API 3 1/2" Reg. Pin		API 3 1/2" Reg. Pin.		API 4 1/2" Reg. Pin		API 4 1/2" Reg. Pin		API 4 1/2" Reg. Pin		API 4 1/2" Reg. Pin	
Bit Shank	DHD3,5		DHD340		DHD350		DHD360		SD6		SD8		DHD380		DHD380		TD90	
General Specifications	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
Reversible casing	NO		NO		NO		NO		YES		NO		NO		YES		NO	
Recommended bit diameter	93 – 105	3 2/3 – 4 1/7	105 – 127	4 1/7 – 5	130 – 152	5 1/8 – 6	152 – 194	6 – 7 2/3	152 – 194	6 – 7 2/3	190 – 254	7 1/2 – 10	195 – 270	7 2/3 – 10 5/8	195 – 270	7 2/3 – 10 5/8	219 – 290	8 5/8 – 11 3/7
Outside Diameter	85,0	3,35	98,0	3,86	118,0	4,65	142,0	5,59	142,0	5,59	168,0	6,61	182,0	7,17	182,0	7,17	197,0	7,76
Length w/o connection & bit	797,0	31,4	961,1	37,8	1,081,0	42,6	1,218,5	48,0	1,146,5	45,1	1,163,0	45,8	1,400,0	55,1	1,341,5	52,8	1,382,0	54,4
Weight w/o bit	25,2	55,6	39,7	87,5	61,5	135,6	104,2	229,7	96,0	211,6	143,4	316,2	195,5	431,1	178,0	392,4	234,8	517,5
Backhead across flats (mm)	40 X 67 AF		40 X 74 AF		40 X 100 AF		40 X 100 AF		40 X 100 AF		40 X 156 AF		50 X 128 AF		50 X 128 AF		50 X 143 AF	
Air Consumption																		
10,3 BAR / 150 PSI (m³/min & cfm)	5,2	185	7,2	254	8,7	310	12,5	440	12,9	455	13,6	480,0	15,6	550,0	15,6	550,0	16,0	565,0
13,8 BAR / 200 PSI (m³/min & cfm)	7,3	257	9,3	325	12,0	421	16,5	578	15,7	548	18,0	635,0	20,4	720,0	20,4	720,0	21,0	742,0
17,2 BAR / 250 PSI (m³/min & cfm)	9,2	324	11,1	394	15,0	530	19,8	700	17,7	625	22,9	810,0	26,0	920,0	26,0	920,0	26,6	940,0
20,7 BAR / 300 PSI (m³/min & cfm)	11,7	409	13,4	468	18,5	646	25,2	883	21,9	768	27,8	972,0	31,4	1,100,0	31,4	1,100,0	32,1	1,124,0
24,1 BAR / 350 PSI (m³/min & cfm)	13,9	490	15,3	540	21,5	760	29,7	1,050	25,3	895	32,5	1,137,0	36,7	1,285,0	36,7	1,285,0	37,5	1,312,0
Available Options																		
Bit Shank	–		TD40 / SD4 / QL40		QL50 / SD5		QL60 / SD6		QL60 / DHD360		–		QL80 / SD8		QL80 / SD8 / Mach80		–	
Bit retainer system	–		–		–		–		–		–		YES		–		–	
Heavy Duty Design	–		–		YES (126mm / 4.96")		YES (146mm / 5.75")		–		–		–		–		–	

TGX HAMMER SERIES

TGX Hammer does not need foot valve of bit. It eliminates operation problem associated with the foot valve. TGX hammers perform well with higher piston frequency for soft–rock formation.

FEATURES AND BENEFITS

- Solid piston reduces residual stress affecting the failure
- Effective inner cylinder provides longer life
- Simplified design ensures ease of assembly and disassembly



TGX HAMMER SPECIFICATIONS

Model	TGX40		TDU60C		TGX80	
Connection	API 2 3/8" Reg. Pin		API 3 1/2" Reg. Pin		API 4 1/2" Reg. Pin	
Bit Shank	DHD340		QL60		QL80	
General Specifications	Metric	Imperial	Metric	Imperial	Metric	Imperial
Recommended bit diameter	105 – 127	4 1/7 – 5	152 – 194	6 – 7 2/3	195 – 270	7 2/3 – 10 5/8
Outside Diameter	98	3.86	142.0	5.59	182.0	7.17
Length w/o connection & bit	954.0	37.6	1,088.0	42.8	1,186.0	46.7
Weight w/o bit	41.0	90.4	97.0	214.0	166.0	365.9
Backhead across flats (mm)	40 X 74 AF		50 X 100 AF		60 X 148 AF	
Air Consumption						
10.3 BAR / 150 PSI (m³/min & cfm)	5.1	180	11.2	395.0	14.4	510.0
13.8 BAR / 200 PSI (m³/min & cfm)	7.9	275	14.7	514.0	19.7	695.0
17.2 BAR / 250 PSI (m³/min & cfm)	10.6	370	17.6	620.0	25.0	885.0
24.1 BAR / 350 PSI (m³/min & cfm)	16.0	560	26.0	920.0	36.0	1,259.0
Available Options						
Bit Shank	TD40 / M40		DHD360 / SD6 / M60		DHD380 / SD8 / M80	
Heavy Duty Design			YES (146mm / 5.75")			

TRC HAMMER SERIES

It's a new version of Reverse Circulation hammer. The cuttings are evacuated to the ground through the inner tube of RC hammer. TRC hammers lead to productivity growth and cost savings.

FEATURES AND BENEFITS

- Available in a wide range of sizes
- Require less air to evacuate cuttings
- Minimize damage of surrounding formation in sensitive sites



TRC HAMMER SPECIFICATIONS

Model		TRC40		TRC50	
Connection		4" Metzke		4,5" Remet	
Bit Shank		RC40		RC50	
General Specifications		Metric	Imperial	Metric	Imperial
Recommended bit diameter		121~ 133	4 3/4 – 5 1/4	133 – 146	5 1/4 – 5 3/4
Outside Diameter		116,0	4,57	121,0	4,76
Length w/o connection & bit		973,0	38,3	1,078,5	42,5
Weight w/o bit		50,0	110,2	61,3	135,1
Backhead across flats (mm)		44 x 105 AF		30 X 116 AF	
Air Consumption					
24,1 BAR / 350 PSI (m³/min & cfm)		19,8	700	22,6	800
34,5 BAR / 500 PSI (m³/min & cfm)		26,9	950	28,3	1,000
44,8 BAR / 650 PSI (m³/min & cfm)		33,9	1,200	36,8	1,300

* Other size of TRC Hammer is available upon customer’s request.



TOP DRILL

Cluster Hammer Series

■ TGM Hammer

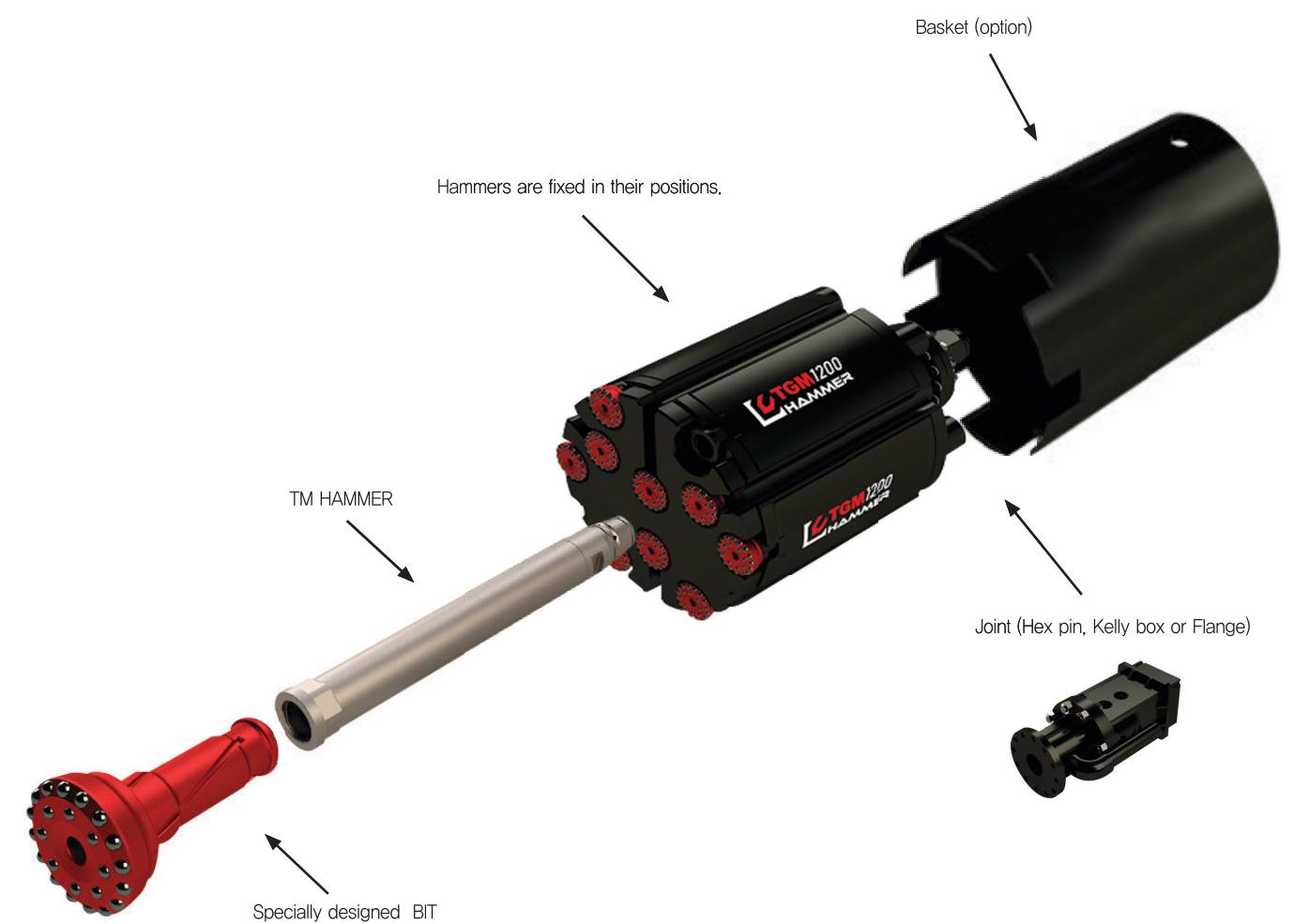


TGM HAMMER SERIES

TGM – Top Drill's cluster drill – consists of a robust canister in which Top Drill TM hammers are fitted. These hammers utilize specially designed drill bits. Hammers fitted with bits rotate with the canister.

FEATURES AND BENEFITS

- Specialized for drilling extremely large holes
- Suitable for sensitive downtown infrastructure
- Efficient TM hammers provide drilling with lower air consumption
- Same size of bits lead to cost reduction compared to conventional large DTH bits
- Bits are free to be rotated and buttons wear evenly
- Joint with Kelly box, Hexagonal pin or Flange



TGM HAMMER SERIES



TGM HAMMER SPECIFICATIONS

Model	No. of Hammers	Working Diameter		Total Weight		Air Requirements	
		MM	INCH	KGS	LBS	SCFM	M ³ /MIN
TGM530	4	530	20.9	1360	2998	2480	70.2
TGM650	5	650	25.6	1720	3792	3100	87.8
TGM870	6	870	34.3	2710	5975	3720	105.3

* AIR REQUIREMENTS PER HAMMER – 620 CFM@250PSI
* Other size of TGM hammer is available upon customer's request.



TOP DRILL DTH BIT Series

- DRILL BITS
- HOLE OPENERS
- RING BITS

DRILL BITS

TOP DRILL DTH BITS are designed for efficient drilling. These bits transfer maximum amount of piston energy to the rock. TOP DRILL DTH BITS are made to strict quality standard with experienced metal machining technology.

FEATURES AND BENEFITS

- Large diameter DTH bits are available up to 1500mm diameter
- Bit forgings are tested by ultrasonic and microscopic method
- Longer bit life is ensured by rigorous heat treatment, shot peening and careful deburring



DRILL BITS

TOP DRILL DTH BITS are designed for efficient drilling. These bits transfer maximum amount of piston energy to the rock. TOP DRILL DTH BITS are made to strict quality standard with experienced metal machining technology.

DTH BIT SPECIFICATIONS

DTH Hammer	Bit Diameter		Shank
	MM	INCH	
ACE10	55 ~ 66	2 1/6 ~ 2 3/5	DOM10
ACE20L	66 ~ 76	2 3/5 ~ 3	DHD065
ACE20	70 ~ 80	2 3/4 ~ 3 1/7	MACH20
ACE30	87 ~ 105	3 3/7 ~ 4 1/7	DHD3,5
TG35	93 ~ 105	3 2/3 ~ 4 1/7	DHD3,5
TG40	105 ~ 127	4 1/7 ~ 5	DHD340
TG50	130 ~ 152	5 1/8 ~ 6	QL50
TG60, TGR60	152 ~ 194	6 ~ 7 2/3	QL60
TG80, TGR80	195 ~ 270	7 2/3 ~ 10 5/8	SD8
TG90	219 ~ 290	8 5/8 ~ 11 3/7	TD90
TG100L, TG100N	251 ~ 305	9 7/8 ~ 12	SD10
TG120L	300 ~ 445	11 4/5 ~ 17 1/2	SD12
TG125	311 ~ 460	12 1/4 ~ 18 1/9	N125
TG320N	355 ~ 525	14 ~ 20 2/3	TG320
TG370N, TG370S	445 ~ 575	17 1/2 ~ 22 2/3	TG370
TG450N, TG450S	460 ~ 660	18 1/9 ~ 26	TG450
TG550C, TG550CS	610 ~ 850	24 ~ 33 1/2	TG550
TG640C	710 ~ 975	28 ~ 38 2/5	TG640
TG800C	900 ~ 1250	35 3/7 ~ 49 1/5	TG800
TG900C	1020 ~ 1450	40 1/6 ~ 57	TG900

* Other size of DTH Bit is available upon customer's request.

HOLE OPENERS

TOP DRILL HOLE OPENERS are designed for reaming of predrilled pilot holes. Specially designed Pilot & Reamer diameter and head shape meet variable drilling requirements.



RING BITS

RING BITS are welded to the end of casing. Heavy duty reusable ring bits (CIP, DRA) are used in the weak ground conditions.





TOP DRILL

OVERBURDEN DRILLING SYSTEMS

■ TRB SYSTEMS ■ TDS SYSTEMS ■ TDN SYSTEMS ■ TREX SYSTEMS ■ TDEX SYSTEMS

TRB SYSTEMS

TRB overburden drilling systems are designed for economic cost of drilling in simultaneous casing advancement. The wings are retracted by reverse rotation.



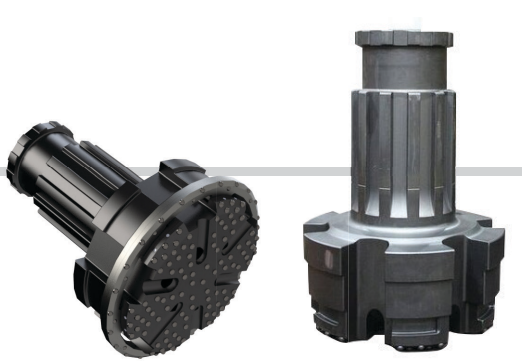
TRB SYSTEM SPECIFICATIONS

Model	Casing Size						Bit Diameter				No. of Wings	Applicable Hammer
	OD	ID	T	OD	ID	T	Exp	Ret	Exp	Ret		
	MM			INCH			MM		INCH			
TRB90	114.3	103.5	5.4	4.500	4.075	0.213	124.3	90.5	4.89	3.56	2	TG35
TRB115	139.7	127.7	6.0	5.500	5.028	0.236	153.7	112.7	6.05	4.44	2	TG40
TRB130	152.0	132.0	10.0	5.984	5.197	0.394	164	115	6.46	4.53	2	TG40
TRB140	168.3	146.4	11.0	6.626	5.764	0.431	176	132	6.93	5.20	2	TG50
TRB150	168.3	162.3	3.0	6.626	6.390	0.118	185	140	7.28	5.51	2	TG50/TG60
TRB165	193.7	171.8	11.0	7.626	6.764	0.431	207	148	8.15	5.83	2	TG60
TRB190	219.1	209.5	4.8	8.626	8.248	0.189	236	190	9.30	7.46	2	TG60
TRB215	244.5	219.1	12.7	9.626	8.626	0.500	255	200	10.02	7.88	2	TG80
TRB240	273.0	253.0	10.0	10.748	9.961	0.394	290	230	11.42	9.06	2, 3	TG80
TRB250	301.6	272.2	14.7	11.874	10.717	0.579	312	253	12.28	9.96	3	TG80
TRB280	324.0	299.0	12.5	12.756	11.772	0.492	341	280	13.43	11.02	3	TG100
TRB315	356.0	331.0	12.5	14.016	13.031	0.492	370	305	14.57	12.01	3	TG100/TG120
TRB365	406.0	366.0	20.0	15.984	14.409	0.787	422	338	16.61	13.31	3	TG120/TG125
TRB410	457.2	425.2	16.0	18.000	16.740	0.630	473	397	18.62	15.63	3	TG320
TRB460	508.0	483.0	12.5	20.000	19.016	0.492	529	455	20.83	17.91	3	TG370
TRB510	559.0	534.0	12.5	22.008	21.024	0.492	586	502	23.07	19.76	3	TG450
TRB560	609.6	584.2	12.7	24.000	23.000	0.500	633	558	24.92	21.97	3	TG450
TRB610	660.4	635.0	12.7	26.000	25.000	0.500	684	603	26.93	23.72	3	TG450, TG550
TRB660	711.0	685.0	13.0	27.992	26.969	0.512	731	653	28.78	25.71	3	TG550
TRB710	762.0	724.0	19.0	30.000	28.504	0.748	786	690	30.94	27.17	3	TG550
TRB760	813.0	788.0	12.5	32.008	31.024	0.492	841	754	33.11	29.69	3, 4	TG550
TRB810	864.0	839.0	12.5	34.016	33.031	0.492	887	803	34.92	31.61	3, 4	TG640
TRB860	914.4	889.0	12.7	36.000	35.000	0.500	936	847	36.87	33.35	4	TG640
TRB960	1020.0	988.0	16.0	40.157	38.898	0.630	1052	944	41.42	37.17	5	TG800
TRB1010	1066.8	1022.4	22.2	42.000	40.252	0.874	1097	976	43.19	38.44	5	TG800
TRB1160	1219.2	1168.4	25.4	48.000	46.000	1.000	1243	1122	48.94	44.19	6	TG800
TRB1360	1420.0	1380.0	20.0	55.906	54.331	0.787	1460	1330	57.48	52.36	6	TG900

* Other size of TRB system is available upon customer's request.

TDS SYSTEMS

TDS overburden drilling systems are designed to use ring bit which is not connected to casing shoe. Special profile DTH Bit passes through enough large inner diameter of ring bit.



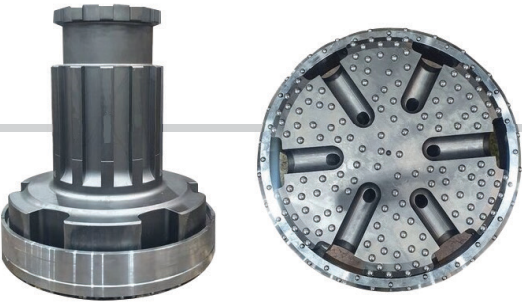
TDS SYSTEM SPECIFICATIONS

Model	Casing Size						Ring bit Diameter		Applicable Hammer
	OD	ID	T	OD	ID	T	OD	OD	
	MM			INCH			MM	INCH	
TDS140	178.0	158.0	10.0	7.008	6.220	0.394	192	7.56	TG50
TDS165	202.0	182.0	10.0	7.953	7.165	0.394	218	8.58	TG60
TDS190	219.0	193.6	12.7	8.622	7.622	0.500	231	9.10	TG60
TDS215	244.5	214.2	15.2	9.626	8.433	0.596	257	10.13	TG80
TDS240	273.0	253.0	10.0	10.748	9.961	0.394	287	11.30	TG80
TDS280	324.0	308.0	8.0	12.756	12.126	0.315	338	13.31	TG100
TDS315	356.0	332.0	12.0	14.016	13.071	0.472	370	14.57	TG120
TDS365	406.0	374.0	16.0	15.984	14.724	0.630	420	16.54	TG125
TDS410	457.0	397.0	30.0	17.992	15.630	1.181	475	18.70	TG320
TDS460	508.0	483.0	12.5	20.000	19.016	0.492	528	20.79	TG370
TDS560	610.0	578.0	16.0	24.016	22.756	0.630	625	24.61	TG450
TDS610	660.4	622.0	19.2	26.000	24.488	0.756	684	26.93	TG550
TDS660	711.2	681.2	15.0	28.000	26.819	0.591	735	28.94	TG550
TDS710	762.0	712.0	25.0	30.000	28.031	0.984	788	31.02	TG550
TDS760	813.0	773.0	20.0	32.008	30.433	0.787	830	32.68	TG550
TDS810	860.0	810.0	25.0	33.858	31.890	0.984	880	34.65	TG550
TDS860	914.4	882.0	16.2	36.000	34.724	0.638	938	36.93	TG640
TDS960	1,020.0	988.0	16.0	40.157	38.898	0.630	1048	41.26	TG800
TDS1160	1,200.0	1,168.0	16.0	47.244	45.984	0.630	1230	48.43	TG800
TDS1360	1,400.0	1,368.0	16.0	55.118	53.858	0.630	1430	56.30	TG900
TDS1410	1,500.0	1,468.0	25.4	59.055	57.795	1.000	1530	60.24	TG900

* Other size of TDS system is available upon customer's request.

TDN SYSTEMS

TDN overburden drilling systems are designed to use ring bit which is integrated to casing shoe. This ring bit set is retrieved for multi use.



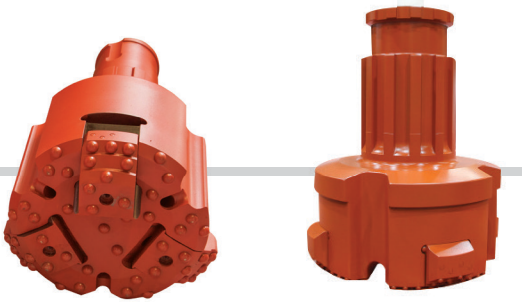
TDN SYSTEM SPECIFICATIONS

Model (shoulder type)	Casing Size						Ring bit Diameter		Applicable Hammer
	OD	ID	T	OD	ID	T	OD	OD	
	MM			INCH			MM	INCH	
TDN140	168.0	148.0	10.0	6.614	5.827	0.394	190	7.48	TG50
TDN190	219.0	193.6	12.7	8.622	7.622	0.500	239	9.41	TG60
TDN240	273.0	260.4	6.3	10.748	10.252	0.248	309	12.17	TG80
TDN280	323.8	298.8	12.5	12.748	11.764	0.492	352	13.86	TG100
TDN365	406.0	382.0	12.0	15.984	15.039	0.472	434	17.09	TG125
TDN560	609.6	584.2	12.7	24.000	23.000	0.500	634	24.94	TG450
TDN630	683.0	658.0	12.5	26.890	25.906	0.492	711	27.99	TG550
TDN760	813.0	785.0	14.0	32.008	30.906	0.551	845	33.27	TG550
TDN1160	1,219.2	1,168.4	25.4	48.000	46.000	1.000	1,255	49.41	TG900
TDN1360	1,420.0	1,380.0	20.0	55.906	54.331	0.787	1,480	58.27	TG900

* Other size of TDN system is available upon customer's request.

TREX SYSTEMS

TREX overburden drilling systems are designed for wings to be retracted when bit is pulled up.



TREX SYSTEM SPECIFICATIONS

Model	Casing Size						Bit Diameter				No. of Wings	Applicable Hammer
	OD	ID	T	OD	ID	T	Exp	Ret	Exp	Ret		
	MM			INCH			MM		INCH			
TREX115	139.8	125.0	7.4	5.504	4.921	0.291	154	113	6.06	4.45	2	TG40
TREX130	152.4	132.4	10.0	6.000	5.213	0.394	164	129	6.47	5.08	2	TG40
TREX140	177.8	155.7	11.1	7.000	6.130	0.435	190	153	7.47	6.01	2	TG50
TREX165	188.0	178.0	5.0	7.402	7.008	0.197	198	175	7.80	6.89	2	TG60
TREX190	219.0	188.0	15.5	8.622	7.402	0.610	231	185	9.09	7.28	2	TG60
TREX215	250.8	219.1	15.9	9.874	8.626	0.624	265	199	10.43	7.84	3	TG80
TREX240	273.0	248.4	12.3	10.748	9.780	0.484	287	244	11.30	9.62	3	TG80
TREX250	298.5	278.5	10.0	11.752	10.965	0.394	313	256	12.30	10.06	3	TG80/TG100
TREX280	324.0	296.0	14.0	12.756	11.654	0.551	340	292	13.39	11.50	3	TG100
TREX315	355.6	328.6	13.5	14.000	12.937	0.531	372	325	14.63	12.78	3	TG100/TG120
TREX365	406.4	381.0	12.7	16.000	15.000	0.500	422	377	16.63	14.84	3	TG120/TG125
TREX410	457.2	435.0	11.1	18.000	17.126	0.437	483	413	19.02	16.26	3	TG320
TREX560	609.6	584.2	12.7	24.000	23.000	0.500	633	556	24.92	21.89	4	TG450
TREX710	762.0	736.6	12.7	30.000	29.000	0.500	782	703	30.79	27.66	4	TG550
TREX760	813.0	789.0	12.0	32.008	31.063	0.472	831	753	32.72	29.65	4	TG550
TREX860	914.4	889.0	12.7	36.000	35.000	0.500	936	853	36.85	33.57	4	TG640
TREX960	1016.0	984.0	16.0	40.000	38.740	0.630	1044	942	41.10	37.09	4	TG800
TREX1010	1067.0	1029.0	19.0	42.008	40.512	0.748	1097	983	43.19	38.70	5	TG800
TREX1060	1180.0	1110.0	35.0	46.457	43.701	1.378	1212	1067	47.72	42.01	5	TG800
TREX1160	1219.2	1183.0	18.1	48.000	46.575	0.713	1249	1145	49.17	45.08	5	TG800
TREX1360	1422.0	1358.0	32.0	55.984	53.465	1.260	1452	1308	57.17	51.50	5	TG900

* Other size of TREX system is available upon customer's request.

TDEX SYSTEMS

TDEX overburden drilling systems are designed for small size piling from 114mm to 406mm.

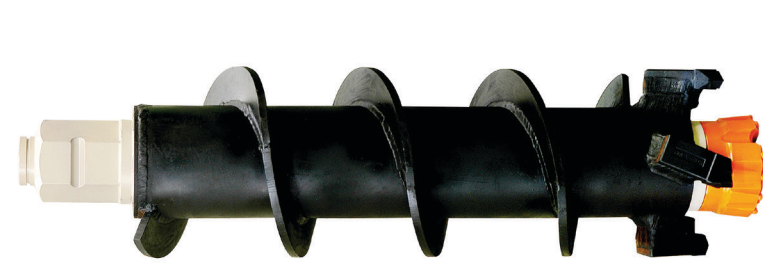


TDEX SYSTEM SPECIFICATIONS

Model	Casing Size						Bit Diameter				Applicable Hammer
	OD	ID	T	OD	ID	T	Exp	Ret	Exp	Ret	
	MM			INCH			MM		INCH		
TDEX90	114.3	101.6	6.4	4.500	4.000	0.250	122	90	4.80	3.54	TG35
TDEX115	141.3	128.1	6.6	5.563	5.043	0.260	151	116	5.94	4.57	TG40
TDEX140	168.3	155.6	6.4	6.626	6.126	0.252	186	140	7.32	5.51	TG50
TDEX165	193.7	179.7	7.0	7.626	7.075	0.276	212	166	8.35	6.54	TG60
TDEX180	219.0	194.0	12.5	8.622	7.638	0.492	232	180	9.13	7.09	TG60
TDEX190	219.0	205.0	7.0	8.622	8.071	0.276	237	192	9.33	7.56	TG60, TG80
TDEX215	244.0	222.0	11.0	9.606	8.740	0.433	256	202	10.08	7.95	TG80
TDEX240	273.0	260.2	6.4	10.748	10.244	0.252	292	240	11.50	9.45	TG80
TDEX280	324.0	305.0	9.5	12.756	12.008	0.374	343	283	13.50	11.14	TG100

* Other size of TDEX system is available upon customer's request.

TOPDRILL OTHER PRODUCTS



SCREW HAMMERS

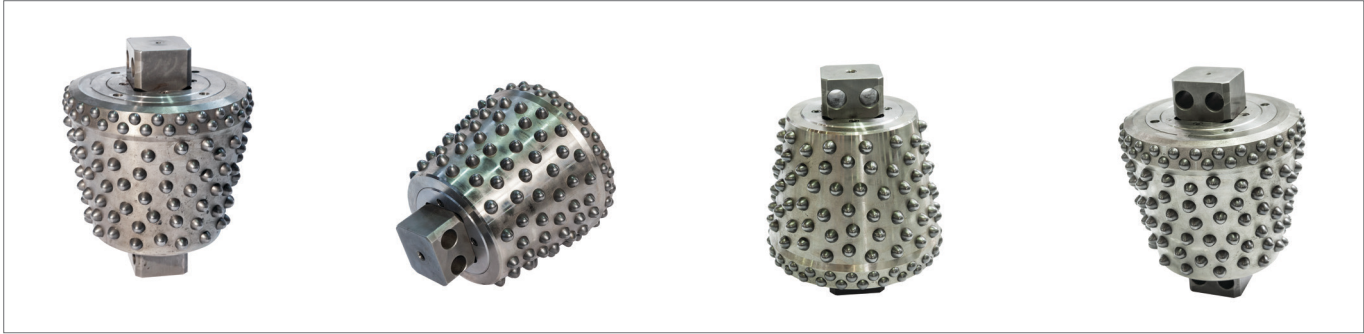
Model	Hole diameter		Combined	
	MM	INCH	Hammer	Bit (MM)
TDSH 300	300	11.81	TG60	200
TDSH 400	400	15.75	TG80	254
TDSH 450	450	17.72	TG100L	270
TDSH 600	600	23.62	TG120L	385

* Other size of Screw Hammer is available upon customer's request.

ACE HAMMERS

Model	Connection	Bit shank	Recommended bit diameter	Outside diameter	Length	Weight
ACE10	40mm DIN405 6 TPI Box	ACE10	55 ~ 66	47	772.0	7.0
ACE20L	JIS50 Box	DHD065	66 ~ 76	58	781.5	11.0
ACE20	50mm DIN405 6 TPI Box, Pin	MACH20	70 ~ 80	62	797.0	12.5
ACE30	API 2 3/8 Reg. Pin	DHD3,5	87 ~ 105	79	839.0	24.0

RCD ROLLER CUTTER



TOPDRILL OTHER PRODUCTS

SHOCK ABSORBERS

Model	Applicable hammer	Diameter (mm)	Product
TDSA3.5	TG35	85	
TDSA4	TG40	98	
TDSA5	TG50	112	
TDSA6	TG60	137	
TDSA8	TG80	162	
TDSA10	TG100	212	
TDSA12L	TG120L, TG125	264	
TDSA14	TG320	315	
TDSA15	TG370, TG450	352	
TDSA18	TG450, TG550	402	
TDSA24	TG550, TG640	455	
TDSA28	TG640, TG800	505	
TDSA36	TG800, TG900	605	

BREAKOUT BENCH

Model	Standard range	
SB80	TG80	
SB100	TG40 ~ TG100	
SB120	TG60 ~ TG125	
SB450	TG120 ~ TG450	
SB550	TG120 ~ TG550	
SB800	TG120 ~ TG800	
SB900	TG120 ~ TG900	

TOPDRILL OTHER PRODUCTS

AIR SWIVELS



Top	Bottom	OD (mm)	Length (mm)	Weight (kg)	Weight (lb)
2 3/8" API Reg. male	2 3/8" API Reg. female	233	443	105	232
75mm square pin	4 1/2" API Reg. female	278	432	134	295
6 5/8" API Reg. male	6 5/8" API Reg. female	308	524	215	474
3" HEX box	T4 box	405	871	420	926
130 square box	240H box	465	929	590	1301
HEX300 pin	HEX300 box	575	900	790	1742

* Other size of Air Swivel (RC) is available upon customer's request.

DRILL PIPES



ADAPTERS



TOPDRILL OTHER PRODUCTS

BAYONET ADAPTERS



AIR MANIFOLDS



OILERS



HAMMER SHROUDS



TOP DRILL

- ▶ DTH Hammer Series
- ▶ DTH BIT Series
- ▶ Cluster Hammer Series
- ▶ Overburden Drilling System
- ▶ Other Products



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