



DRILLING TOOLS

DTH Hammer Series

DTH BIT Series

Cluster Hammer Series

Overburden Drilling Systems

Other Products

CONTENTS

01 DTH Hammer Series

TG Hammer	04
TL Hammer	08
TRC Hammer	09

02 Cluster Hammer Series

TGM Hammer	10
------------	----

03 DTH BIT Series

Drill Bits	13
Hole Openers	15
Ring Bits	15

04 Overburden Drilling Systems

TRB Systems	17
TDS Systems	18
TREX Systems	19
TDN Systems	20
TDEX Systems	20

05 Other Products

SCREW Hammers	21
ACE Hammers	21
RCD Roller Cutter	21
Shock Absorbers	22
Breakout Benchs	22
Air Swivels	23
Drill Pipes	23
Adapters	23
Bayonet Adapters	23
Air Manifolds	23
Oilers	23
Hammers Shrouds	23



01

DTH HAMMER SERIES

LARGE DIAMETER DRILLING SOLUTIONS



TG HAMMER

Description

The TG hammer is TOPDRILL's latest down the hole hammer 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 a solution for even larger holes
- Providing excellent durability with experienced quality control
- Easy maintenance and assembly structure
- Innovative Bit retainer system



TG HAMMER Large

Model	TG450N		TG450C		TG550C	
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	
Bit Shank	N180		N180		N240	
General Specifications	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
Outside Diameter	415	16.34	415	16.34	530	20.87
Length w/o connection & bit	1872	73.7	2065.8	81.3	1872	73.7
Weight w/o bit	1488	3280.5	1648	3633.2	2500	5511.6
Backhead breakout pin hole (mm)	50 X 370 AF / 4-ø40		50 X 370 AF / 4-ø40		54 X 480 AF / 4-ø40	
Air Consumption						
6.9 BAR / 100 PSI (m³/min & cfm)	45	1590	46.4	1640	62.3	2200
10.3 BAR / 150 PSI (m³/min & cfm)	64.7	2285	66.2	2340	96.2	3400
13.8 BAR / 200 PSI (m³/min & cfm)	85.2	3010	89.5	3160	130.2	4600
Available Options						
Bit Shank	SD18 / QL200 / TG450		SD18 / QL200		TG550	
Bit retainer system	YES		YES		YES	



TG550CS		TG640C		TG800C		TG900C	
Hex Joint		Hex Joint		Hex Joint		Hex Joint	
N240		TG640C		TG800C		TG900C	
Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
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
530	20.87	640	25.20	800	31.50	900	35.43
1967	77.4	2134	84	2242.5	88.3	2213	87.1
2515	5544.6	4315	9513	7100	15652.7	8000	17637
54 X 480 AF / 4-ø40		4-ø50		4-ø50		4-ø50	
62.3	2200	93.4	3300	113.3	4000	127.4	4500
96.2	3400	113.2	4000	186.9	6600	212.4	7500
130.2	4600	141.5	5000	254.8	9000	283.2	10000
-		-		-		-	
-		-		-		-	

TG HAMMER Medium

Model	TG100L		TG100N		TG120L		TG120N	
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	
Bit Shank	SD10		SD10		SD12		SD12	
General Specifications	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
Reversible casing	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
Outside Diameter	225	8.86	225	8.86	264	10.39	274	10.79
Length w/o connection & bit	1387	54.6	1487	58.5	1615	63.58	1788	70.4
Weight w/o bit	310	683.4	336	740.8	495	1091.3	628	1349.8
Backhead breakout pin hole (mm)	70 X 165 AF		70 X 165 AF		4-ø40		4-ø40	
Air Consumption								
10.3 BAR / 150 PSI (m³/min & cfm)	24.5	865	25.2	890	23.9	845	24.5	865
13.8 BAR / 200 PSI (m³/min & cfm)	29.6	1045	30.9	1090	32.3	1140	34.2	1210
17.2 BAR / 250 PSI (m³/min & cfm)	32.8	1160	34	1200	43	1520	46.4	1640
Available Options								
Bit Shank	N100		-		N120 / DHD112 / DD10		DHD112 / N120	
Bit retainer system	YES		-		-		-	

TG HAMMER Small

Model	TG35		TG40		TG50		TG60	
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	
Bit Shank	DHD3.5		DHD340		DHD350		DHD360	
General Specifications	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
Reversible casing	NO		NO		NO		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
Outside Diameter	85	3.35	98	3.86	118	4.65	142	5.59
Length w/o connection & bit	797	31.4	961.1	37.8	1081	42.6	1218.5	48
Weight w/o bit	24.5	54	39.7	87.5	61.5	135.6	104.2	229.7
Backhead across flats (mm)	40 X 67 AF		40 X 74 AF		40 X 100 AF		40 X 100 AF	
Air Consumption								
10.3 BAR / 150 PSI (m³/min & cfm)	5.2	185	7.2	254	8.7	310	12.5	440
13.8 BAR / 200 PSI (m³/min & cfm)	7.3	257	9.3	325	12	421	16.5	578
17.2 BAR / 250 PSI (m³/min & cfm)	9.2	324	11.1	394	15	530	19.8	700
20.7 BAR / 300 PSI (m³/min & cfm)	11.7	409	13.4	468	18.5	646	25.2	883
24.1 BAR / 350 PSI (m³/min & cfm)	13.9	490	15.3	540	21.5	760	29.7	1050
Available Options								
Bit Shank	-		TD40 / SD4 / QL40		QL50 / SD5		QL60 / SD6	
Bit retainer system	-		-		-		-	
Heavy Duty Design	-		-		-		YES (146mm / 5.75")	

TG125		TG320N (JS)		TG320S		TG370N		TG370S	
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	
N125		TG320		TG320		SD15		TG370	
Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
NO		NO		NO		NO		NO	
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
286	11.26	320	12.60	320	12.60	376	14.80	376	14.80
1684	66.3	1739	68.4	1985	78.2	1918	75.5	2075	81.7
588	1296.3	822	1812.2	984	2139.5	1270	2799.9	1345	2965.2
4-ø40		4-ø34		4-ø34		4-ø40		4-ø40	
25.7	910	32.3	1140	35.7	1260	36.8	1300	40.2	1420
37	1310	44.2	1560	47.6	1680	54.4	1920	58.1	2050
49	1740	57.8	2040	59.5	2100	78.2	2760	82.1	2900
QL120		N125		-		TG370 / DD14		SD15	
YES		-		-		YES		-	

TGR60		TG70		TG80		TGR80		TG90	
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	
SD6		SD8		DHD380		DHD380		TD90	
Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
YES		NO		NO		YES		NO	
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
142	5.59	168	6.61	182	7.17	182	7.17	197	7.76
1146.5	45.1	1163	45.8	1400	55.1	1341.5	52.8	1382	54.4
96	211.6	142	313.1	200	440.9	188	414.5	238	524.7
40 X 100 AF		40 X 156 AF		50 X 128 AF		50 X 128 AF		50 X 143 AF	
12.9	455	13.6	480	15.6	550	15.6	550	16	565
15.7	548	18.0	635	20.4	720	20.4	720	21	742
17.7	625	22.9	810	26.0	920	26.0	920	26.6	940
21.9	768	27.8	972	31.4	1100	31.4	1100	32.1	1124
25.3	895	32.5	1137	36.7	1285	36.7	1285	37.5	1312
QL60 / DHD360		-		QL80 / SD8		QL80 / SD8 / Mach80		-	
-		-		YES		-		-	
-		-		-		-		-	

TL HAMMER



Description

TL Hammer does not require a foot valve on the bit. It eliminates operational problem associated with the foot valve. TL hammers perform well with higher piston frequency for soft-rock formations.

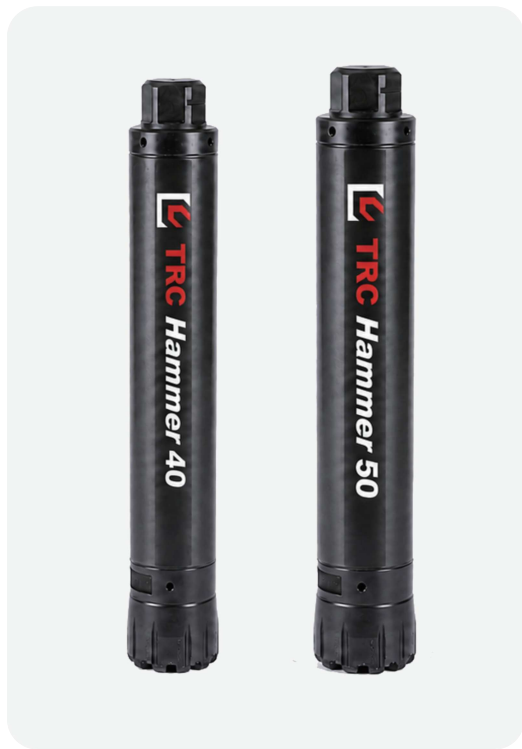
Features and Benefits

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

TL HAMMER

Model	TL40		TL60		TL80	
Connection	API 2 3/8" Reg. Pin		API 3 1/2" Reg. Pin		API 4 1/2" Reg. Pin	
Bit Shank	TD40		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	5.59	182	7.17
Length w/o connection & bit	938	36.93	1183	46.57	1300	51.18
Weight w/o bit	48	104.7	89	196.2	233	513.7
Backhead across flats (mm)	40 × 74 AF		50 X 100 AF		50 × 128 AF	
Air Consumption						
10.3 BAR / 150 PSI (m³/min & cfm)	5.7	200	8.5	300	11.3	400
13.8 BAR / 200 PSI (m³/min & cfm)	8.5	300	12.7	450	16.4	580
17.2 BAR / 250 PSI (m³/min & cfm)	11.3	400	17	600	21.2	750
24.1 BAR / 350 PSI (m³/min & cfm)	16.4	580	25.5	900	32.6	1150
Bit Shank	DHD340 / M40		DHD360 / M60		DHD380 / M80	

TRC HAMMER



Description

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 to the surrounding formation in sensitive sites

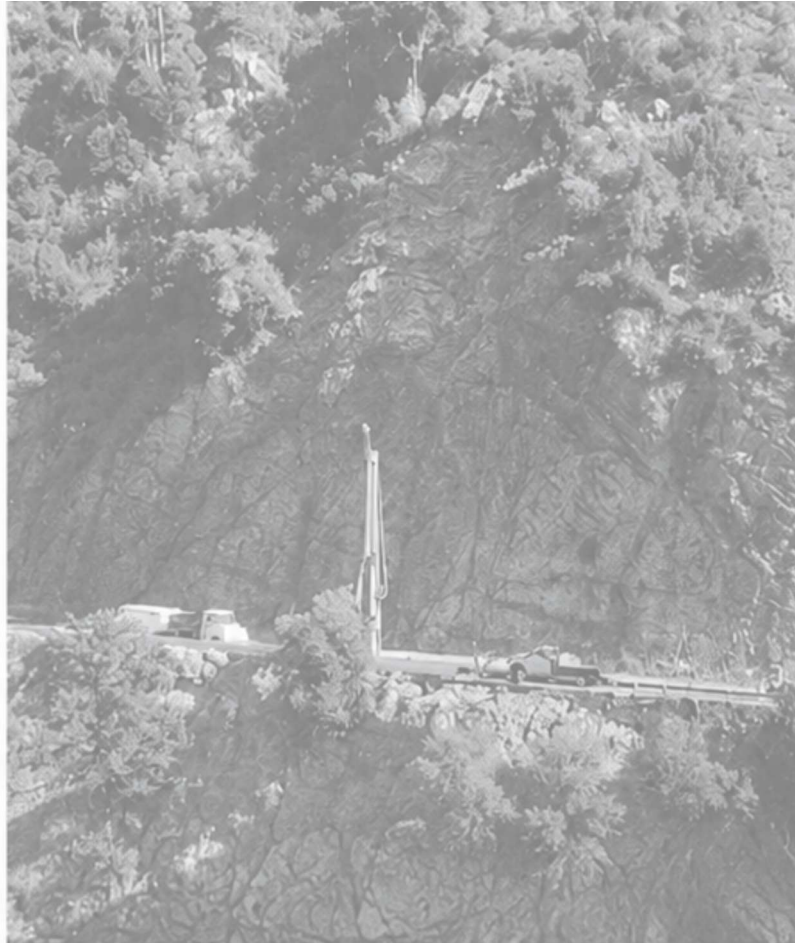
TRC HAMMER

Model	TRC40		TRC50	
Connection	Metzke 4" Box		Remet 4.5" Box	
Bit Shank	RC40		RC50	
General Specifications	Metric	Imperial	Metric	Imperial
Recommended bit diameter	121- 133	4 3/4 - 5 1/4	133 - 143	5 1/4 - 5 5/8
Outside Diameter	116	4.57	121	4.76
Length w/o connection & bit	973.5	38.3	1078.5	42.5
Weight w/o bit	50	110.2	61.3	135.1
Backhead across flats (mm)	44 × 95.5 AF		30 X 116 AF	
Air Consumption				
20.7 BAR / 300 PSI (m³/min & cfm)	18.4	650	18.7	660
27.6 BAR / 400 PSI (m³/min & cfm)	22.1	780	23.5	830
34.5 BAR / 500 PSI (m³/min & cfm)	25.5	900	29.2	1030

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



02



TGM HAMMER SERIES

LARGE DIAMETER DRILLING SOLUTIONS



TGM HAMMER



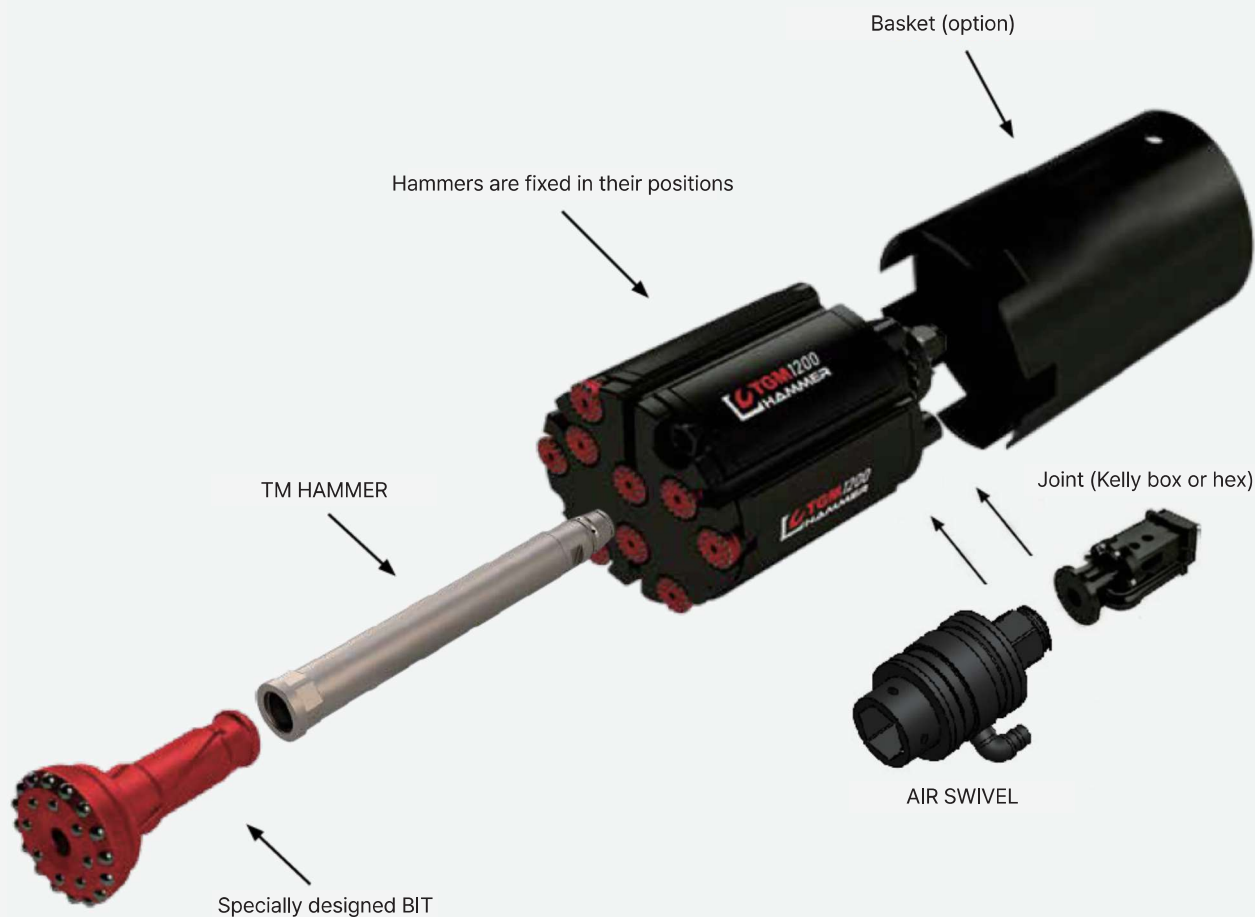
Description

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



TGM HAMMER(TM80)

Model	No. of Hammers	Working Diameter		Total weight		Air Requirments	
		MM	INCH	KG	LBS	SCFM	m ³ /MIN
TGM610	3	610	24	2,100	4,630	2,760	78.2
TGM762	4	762	30	2,800	6,173	3,680	104.2
TGM914	5	914	36	3,600	7,937	4,600	130.3
TGM1067	6	1,067	42	4,700	10,362	5,520	156.3
TGM1219	7	1,219	48	6,100	13,448	6,440	182.4
TGM1372	9	1,372	54	7,500	16,535	8,280	234.5
TGM1500	11	1,500	59	8,400	18,519	10,120	286.6

* AIR REQUIREMENTS PER HAMMER - 920 CFM@250 PSI

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

TGM HAMMER(TM50)

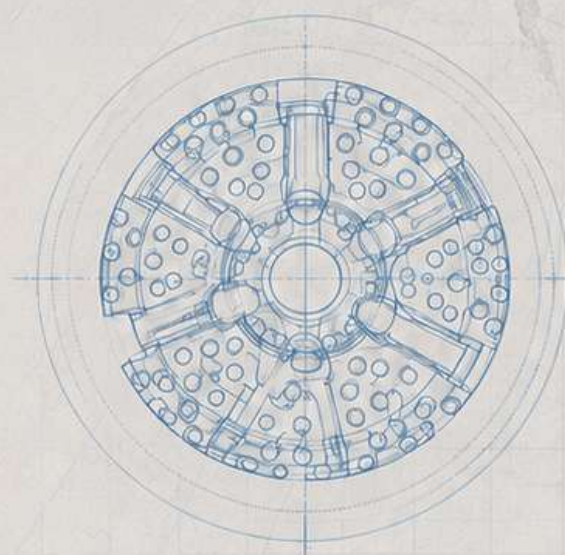
Model	No. of Hammers	Working Diameter		Total weight		Air Requirments	
		MM	INCH	KG	LBS	SCFM	m ³ /MIN
TGM530	4	530	20.9	1,240	2,734	2,120	60



03



DTH BITS SERIES



LARGE DIAMETER DRILLING SOLUTIONS

DRILL BITS

Description

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 standards with experienced metal machining technology.

Features and Benefits

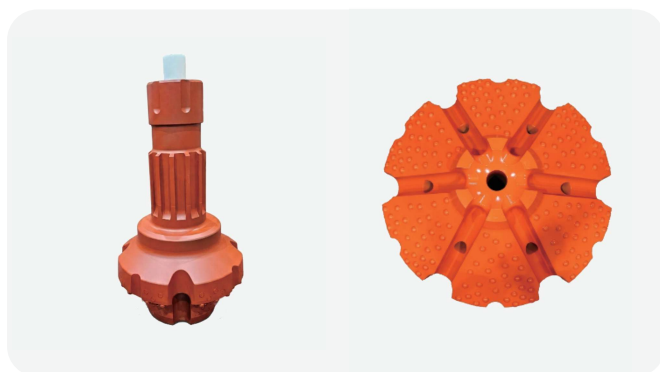
- Large diameter DTH bits are available up to 1500mm diameter
- Bit forgings are tested using ultrasonic and microscopic examination methods
- Longer bit life is ensured by rigorous heat treatment, shot peening and careful deburring



DTH BIT

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

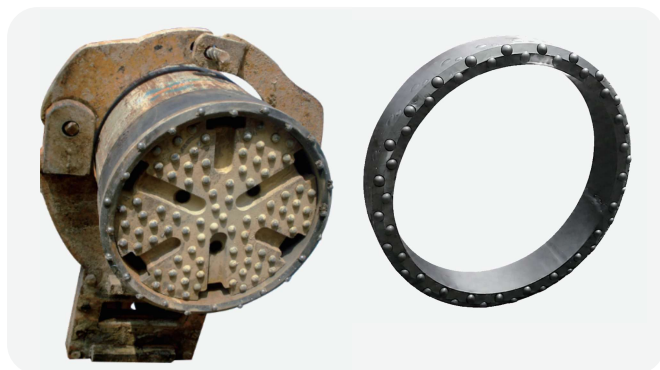
HOLE OPENERS



Description

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

RING BITS



Description

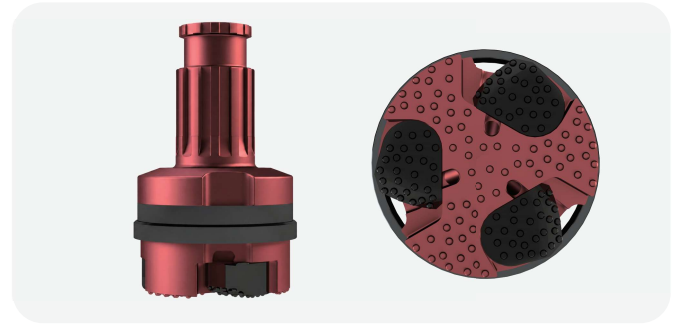
RING BITS are welded to the end of casing. Heavy duty reusable ring bits (CIP, DRA) are used in the weak ground conditions

04

OVER BURDEN DRILLING SYSTEMS

TRB SYSTEMS

TRB overburden drilling systems are designed for cost-effective drilling during simultaneous casing advancement. The wings are retracted by reverse rotation.



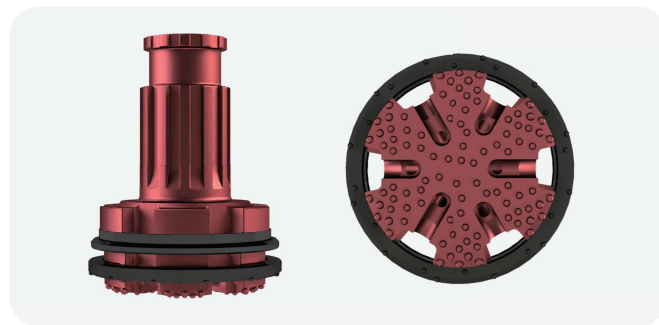
Model	Casing Size						Bit Diameter				No. of Wings	Applicable Hammer
	OD	ID	T	OD	ID	T	Exp	Ret	Exp	Ret		
	MM			INCH			MM		INCH			
TRB90	114.3	102.8	5.8	4.50	4.05	0.23	126.3	90.8	4.97	3.57	2	TG35
TRB115	140.0	126.5	6.8	5.51	4.98	0.27	152.0	111.5	5.98	4.39	2	TG40
TRB130	152.0	132.0	10.0	5.98	5.20	0.39	164	115	6.46	4.53	2	TG40
TRB140	168.0	150.0	9.0	6.61	5.91	0.35	182	133	7.17	5.24	2	TG50
TRB150	178.0	158.0	10.0	7.01	6.22	0.39	192	141	7.56	5.55	2	TG50/TG60
TRB165	194.0	178.0	8.0	7.64	7.01	0.31	210	159	8.27	6.26	2	TG60
TRB190	219.1	213.1	3.0	8.63	8.39	0.12	236	189	9.29	7.44	2	TG60
TRB215	244.5	219.1	12.7	9.63	8.63	0.50	256	200	10.08	7.87	2	TG80
TRB240	273.0	253.0	10.0	10.75	9.96	0.39	290	230	11.42	9.06	2	TG80
TRB250	301.6	272.2	14.7	11.87	10.72	0.58	318	253	12.52	9.96	3	TG80
TRB280	324.0	299.0	12.5	12.76	11.77	0.49	341	280	13.43	11.02	3	TG100
TRB315	356.0	331.0	12.5	14.02	13.03	0.49	370	305	14.57	12.01	3	TG100/TG120
TRB365	406.0	374.0	16.0	15.98	14.72	0.63	426	346	16.77	13.62	3	TG120/TG125
TRB410	457.2	425.2	16.0	18.00	16.74	0.63	473	397	18.62	15.63	3	TG320
TRB460	508.0	483.0	12.5	20.00	19.02	0.49	529	455	20.83	17.91	3	TG370
TRB510	559.0	534.0	12.5	22.01	21.02	0.49	586	502	23.07	19.76	3	TG450
TRB560	609.6	584.2	12.7	24.00	23.00	0.50	633	558	24.92	21.97	3	TG450
TRB610	660.4	635.0	12.7	26.00	25.00	0.50	684	603	26.93	23.74	3	TG450, TG550
TRB660	711.0	685.0	13.0	27.99	26.97	0.51	731	653	28.78	25.71	3	TG550
TRB710	762.0	724.0	19.0	30.00	28.50	0.75	786	690	30.94	27.17	3	TG550
TRB760	813.0	788.0	12.5	32.01	31.02	0.49	841	754	33.11	29.69	3, 4	TG550
TRB810	864.0	839.0	12.5	34.02	33.03	0.49	887	803	34.92	31.61	3, 4	TG640
TRB860	914.4	889.0	12.7	36.00	35.00	0.50	936	847	36.85	33.35	4	TG640
TRB960	1016.0	976.0	20.0	40.00	38.43	0.79	1048	932	41.26	36.69	5	TG800
TRB1010	1066.8	1022.4	22.2	42.00	40.25	0.87	1097	976	43.19	38.43	5	TG800
TRB1160	1219.2	1168.4	25.4	48.00	46.00	1.00	1243	1122	48.94	44.17	6	TG800
TRB1360	1420.0	1380.0	20.0	55.91	54.33	0.79	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 bits that are not connected to the casing shoe.

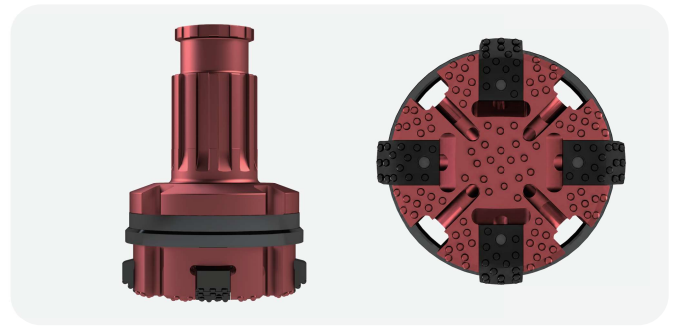
A specially profiled DTH bit passes through the sufficiently large inner diameter of the ring bit.



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	7.01	6.22	0.39	192	7.56	TG50
TDS165	194.0	174.0	10.0	7.64	6.85	0.39	204	8.03	TG60
TDS190	219.0	193.6	12.7	8.62	7.62	0.50	231	9.09	TG60
TDS215	244.5	224.5	10.0	9.63	8.84	0.39	257	10.12	TG80
TDS240	273.0	241.0	16.0	10.75	9.49	0.63	287	11.30	TG80
TDS280	324.0	304.0	10.0	12.76	11.97	0.39	340	13.39	TG100
TDS315	356.0	332.0	12.0	14.02	13.07	0.47	370	14.57	TG120
TDS365	406.0	381.0	12.5	15.98	15.00	0.49	422	16.61	TG125
TDS410	457.0	417.0	20.0	17.99	16.42	0.79	475	18.70	TG320
TDS460	508.0	483.0	12.5	20.00	19.02	0.49	528	20.79	TG370
TDS560	610.0	578.0	16.0	24.02	22.76	0.63	632	24.88	TG450
TDS610	660.4	622.0	19.2	26.00	24.49	0.76	684	26.93	TG550
TDS660	711.2	681.2	15.0	28.00	26.82	0.59	735	28.94	TG550
TDS710	762.0	712.0	25.0	30.00	28.03	0.98	788	31.02	TG550
TDS760	813.0	788.0	12.5	32.01	31.02	0.49	835	32.87	TG550
TDS810	860.0	810.0	25.0	33.86	31.89	0.98	880	34.65	TG550
TDS860	914.4	882.0	16.2	36.00	34.72	0.64	938	36.93	TG640
TDS960	1,020.0	988.0	16.0	40.16	38.90	0.63	1048	41.26	TG800
TDS1160	1,200.0	1,168.0	16.0	47.24	45.98	0.63	1230	48.43	TG800
TDS1360	1,400.0	1,368.0	16.0	55.12	53.86	0.63	1430	56.30	TG900
TDS1410	1,500.0	1,468.0	25.4	59.06	57.80	1.00	1530	60.24	TG900

TREX SYSTEMS

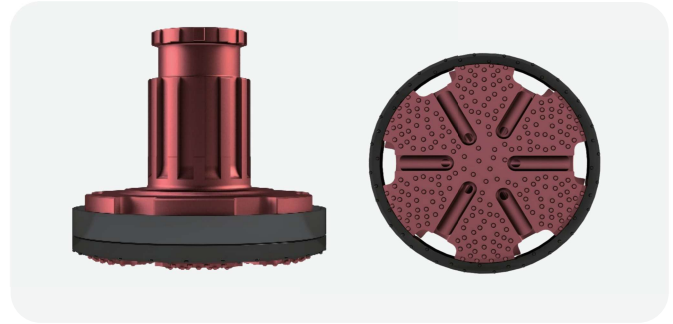
TREX overburden drilling systems are designed to retract the wings when the bit is pulled up.



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	5.50	4.92	0.29	150	111	5.91	4.37	2	TG40
TREX130	152.4	132.4	10.0	6.00	5.21	0.39	164	116	6.46	4.57	2	TG40
TREX140	168.3	155.5	6.4	6.63	6.12	0.25	178	139	7.01	5.47	2	TG50
TREX165	194.0	178.0	8.0	7.64	7.01	0.31	204	175	8.03	6.89	2	TG60
TREX190	219.0	188.0	15.5	8.62	7.40	0.61	233	184	9.17	7.24	2	TG60
TREX215	244.5	216.8	13.9	9.63	8.54	0.55	259	213	10.20	8.39	3	TG80
TREX240	273.0	248.4	12.3	10.75	9.78	0.48	287	244	11.30	9.61	3	TG80
TREX250	298.5	278.5	10.0	11.75	10.96	0.39	313	256	12.32	10.08	3	TG80/TG100
TREX280	324.0	296.0	14.0	12.76	11.65	0.55	340	292	13.39	11.50	3	TG100
TREX315	355.6	340.0	7.8	14.00	13.39	0.31	381	317	15.00	12.48	3	TG100/TG120
TREX365	406.4	381.0	12.7	16.00	15.00	0.50	422	377	16.61	14.84	3	TG120/TG125
TREX410	457.2	435.0	11.1	18.00	17.13	0.44	483	413	19.02	16.26	3	TG320
TREX460	508.0	476.0	16.0	20.00	18.74	0.63	528	445	20.79	17.52	3	TG370
TREX510	558.8	538.5	10.2	22.00	21.20	0.40	581	506	22.87	19.92	4	TG450
TREX560	609.6	584.2	12.7	24.00	23.00	0.50	630	556	24.80	21.89	4	TG450
TREX710	762.0	736.6	12.7	30.00	29.00	0.50	788	703	31.02	27.68	4	TG550
TREX760	813.0	789.0	12.0	32.01	31.06	0.47	831	753	32.72	29.65	4	TG550
TREX860	914.4	889.0	12.7	36.00	35.00	0.50	938	853	36.93	33.58	4	TG640
TREX960	1020.0	988.0	16.0	40.16	38.90	0.63	1050	948	41.34	37.32	4	TG800
TREX1010	1067.0	1029.0	19.0	42.01	40.51	0.75	1097	983	43.19	38.70	5	TG800
TREX1110	1180.0	1110.0	35.0	46.46	43.70	1.38	1212	1067	47.72	42.01	5	TG800
TREX1160	1200.0	1168.0	16.0	47.24	45.98	0.63	1234	1122	48.58	44.17	5	TG800
TREX1360	1400.0	1368.0	16.0	55.12	53.86	0.63	1438	1318	56.61	51.89	5	TG900

TDN SYSTEMS

TDN overburden drilling systems are designed to use a ring bit integrated with the casing shoe. This ring bit set is retrievable for multiple uses.

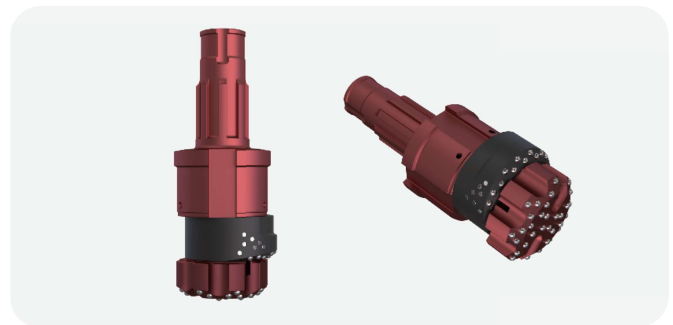


Model (shoulder type)	Casing Size						Ring bit Diameter		Applicable Hammer
	OD	ID	T	OD	ID	T	OD	OD	
	MM			INCH			MM	INCH	
TDN140	168.0	148.0	10.0	6.61	5.83	0.39	190	7.48	TG50
TDN190	219.1	206.4	6.3	8.63	8.13	0.25	248	9.76	TG60
TDN280	323.8	298.8	12.5	12.75	11.76	0.49	352	13.86	TG100
TDN365	406.4	381.0	12.7	16.00	15.00	0.50	430	16.93	TG125
TDN560	610.0	586.0	12.0	24.02	23.07	0.47	638	25.12	TG450
TDN760	813.0	789.0	12.0	32.01	31.06	0.47	843	33.19	TG550
TDN1160	1,219.2	1,168.4	25.4	48.00	46.00	1.00	1,255	49.41	TG900
TDN1260	1,300.0	1,268.0	16.0	51.18	49.92	0.63	1,340	52.76	TG900
TDN1360	1,420.0	1,380.0	20.0	55.91	54.33	0.79	1,460	57.48	TG900

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

TDEX SYSTEM

TDEX overburden drilling systems are designed for small size piling from 114mm to 273mm.



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
TDEX240	273.0	260.2	6.4	10.748	10.244	0.252	292	240	11.50	9.45	TG80

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

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	DOM10	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

The Roller Cutter bit is designed for attachment to Rotary Core Drilling (RCD) equipment, providing efficient rock cutting through its rotating roller cutters. This bit is especially effective in medium to hard rock formations, offering enhanced durability and cutting performance.



OTHER PRODUCTS

SHOCK ABSORBERS

Model	Applicable hammer	Diameter (mm)
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 BENCHS

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



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

DRILL PIPES



ADAPTERS



BAYONET ADAPTERS



HAMMER SHROUDS



AIR MANIFOLDS



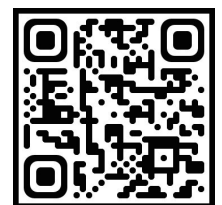
OILERS





34, Mayu-ro, Siheung-si, Gyeonggi-do, Korea (15116)

TEL : +82-31-432-6565 E-mail : td@topdrill.kr



www.topdrill.kr