

TIGRDRILL HAMMERS & DRILL BITS



EXPERIENCED OPERATORS ARE VERY CAREFUL CHOOSING DRILLING RIGS AND SHOULD BE JUST AS CAREFUL WHEN CHOOSING DOWNHOLE EQUIPMENT.

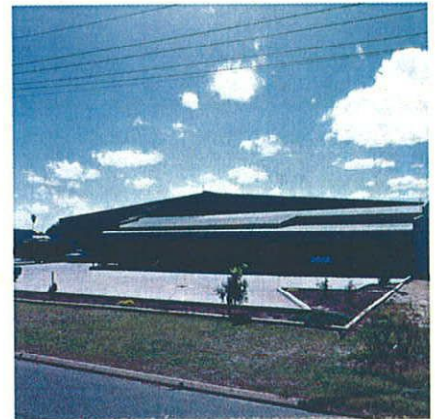


INTERNATIONAL DRILL QUIP INTRODUCES TIGRDRILL™ DOWNHOLE HAMMERS AND BITS

INTERNATIONAL DrillQuip
a world leader in DTH hammer
technology, designs and
manufactures an extensive
range of conventional and reverse
circulation hammers and bits to
drill small to very large
diameter holes.



DrillQuip's team has over 200 years
of experience in the drilling industry.
DrillQuip's commitment to the
industry is supported by a broad
programme of research to develop
and supply reliable, innovative and
high performance drilling equipment
to meet the drilling industry's present
and future requirements.



DrillQuip products
meet the exacting standards
required in the drilling industry.
DrillQuip's 8000 m² modern
manufacturing and heat treatment
facility is based in Perth, Western Australia.
Utilising state of the art manufacturing and
heat treatment technologies,
DrillQuip employs qualified
personnel with expertise in the production of
high quality drilling products.

INTRODUCING THE NEW GENERATION TIGRDRILL™ TOPLOADING REVERSE CIRCULATION HAMMERS

Incorporating the “quick
change” Top Loading Inner
tube system.

The new TRC hammer range
has been designed to operate
reliably with high pressure
boosted air, providing higher
penetration rates and
accurate sample recovery.

Through exhaustive R & D
and testing in the most
extreme drilling conditions
Drill Quip remain at the
forefront of reverse
circulation technology with
the widest range of high
performance
reverse circulation
products in the world.



The sleeveless piston case
design and patented sequential
valving system give the TRC
hammer a higher horsepower
output and higher
operating air pressures.



TIGRDRILL™ CONVENTIONAL DOWNHOLE HAMMERS



When a drilling programme is an important part of a project DrillQuip's DTH hammer hardware, technology and "knowhow" can be relied on.

DrillQuip's conventional DTH range incorporates the new TIGRdrill™ "R" series high energy shank design. Alternatively the hammers are compatible with all major shank designs.

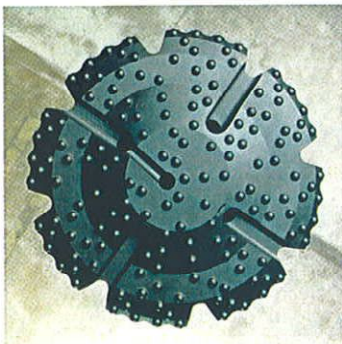
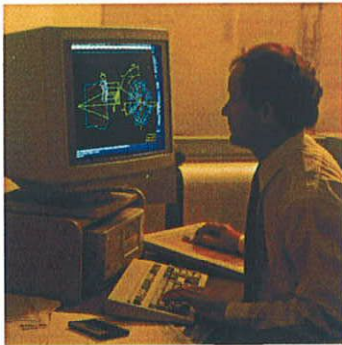


Simple long life make up, reversible sleeveless piston cases and patented sequential valving system enable higher penetration rates, driller friendly maintenance and longer life.

DRILL BITS

Decades of design experience in the industry have led to the release of the unique TH ^{pat pending} cutting structure design and the high energy TIGRdrill™ "R" series shank bits.

Furthermore the subtle design features of shank engineering, in house heat treatment, face cutting structure, precision hole finish and concentricity enable DrillQuip to produce a superbly balanced bit in a variety of shank designs.



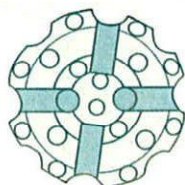
DRILLQUIP TIGRDRILL "T" SERIES DOWNHOLE HAMMER SPECIFICATIONS

"T" SERIES CONVENTIONAL HAMMERS				AIR CONSUMPTION SCFM & M ³ /MIN						
MODEL	O.D.	BIT SIZES	TO SUIT BIT SHANKS	100PSI	125PSI	150PSI	200PSI	250PSI	300PSI	350PSI
				6.8	8.5	10.2	13.6	17.0	20.4	23.8
T-13	3 1/8"	3 5/8" - 4"	30-15	NR	NR	150	210	265	350	NR
	79mm	92-102 mm				4.25	5.95	7.5	10	
T-40	3 7/8"	4 1/4" - 4 3/4"	T40R DHD340 MACH40 SD4	NR	NR	240	330	420	505	580
	98mm	108 - 121mm				6.8	9.3	11.9	14.3	16.4
T-50	4 9/16"	5 1/4" - 5 3/4"	T50RSD5 DHD 350	NR	NR	280	395	515	630	755
	116	133-146mm				7.9	11.2	14.6	17.8	21.4
T-60 STANDARD	5 1/2"	6" - 8"	T60R SD6	NR	NR	405	560	720	875	1040
T-60 LOW VOLUME						140mm	152-230mm	DHD 360 MACH 60	NR	NR
						9.3	12.5	15.9	20.4	25.5
T-17	6 5/8"	7 5/8" - 10"	SD8	NR	NR	495	700	910	1110	1305
	168mm	194-254mm				14	19.8	25.8	31.4	37.9
T-80	7"	8" - 12"	SD8	360	440	550	780	950	NR	NR
	178mm	203-305mm	DHD 380	10.2	12.5	15.6	20.1	26.1		
T-1120	10 7/8"	11 7/8" - 17 1/2"	SD12 DHD 112	680	840	990	1300	1710	NR	NR
	274mm	302-445mm		19.3	23.8	28	36.8	48.4		
T-1150	14"	16" - 22"	SD15	1540	1760	2000	2500	NR	NR	NR
	356mm	406-559mm		43.6	49.8	56.6	70.8			
T-1180	16"	18" - 33"	SD18	2050	2465	2880	NR	NR	NR	NR
	406mm	457-838mm		58.1	69.8	81.5				

Conventional Hammers can be ordered with wear protection, stabilised and heavy duty options. Various thread connections are also available on request.

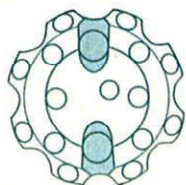
TRC REVERSE CIRCULATION HAMMERS				100PSI	125PSI	150PSI	200PSI	250PSI	300PSI	350PSI
TRC-36TL	3.625"	4" - 103mm	TRC36	NR	NR	280	350	410	460	500
	92mm					7.9	9.9	11.6	13	14.1
TRC-42TL	4.2"	4 1/2" - 5 1/8"	TRC42	NR	NR	280	350	450	540	650
	107mm	114 - 130mm				7.9	9.9	12.7	15.3	18.5
TRC-42 2T	4 2"	4 1/2" - 5 1/8"	TRC42 - 2T	NR	NR	280	350	450	540	650
	107mm	114 - 130mm				7.9	9.9	12.7	15.3	18.5
TRC-44TL	4.4"	4 5/8" - 5 1/4"	TRC45	NR	NR	405	460	560	680	770
	112mm	117 - 133mm				11.4	13	15.8	19.25	21.8
TRC-45TL	4 9/16"	4 3/4" - 5 1/4"	TRC45	NR	NR	405	460	560	680	770
	116mm	121mm - 133mm				11.4	13	15.8	19.25	21.8
TRC-47TL	4.9"	5 1/4" - 5 3/4"	TRC47	NR	NR	475	500	600	700	760
	124mm	133 - 146mm				13.4	14.1	16.9	19.8	21.5
TRC-47S	5.125"	5 3/8" - 6"	TRC47	NR	NR	500	550	620	710	780
	130mm	136 - 152mm				14.1	15.5	17.5	20.1	22
TRC-70	7"	7 5/8" - 10"	TRC70	NR	NR	545	750	935	1135	1330
	178mm	194 - 254mm				15.4	21.2	26.4	32.13	37.6
TRC-120	12"	13" - 15"	TRC120	730	890	1040	1350	1760	NR	NR
	305mm	330 - 381mm		20.6	25.2	29.4	38.2	49.8		
TRC-140	14"	15" - 17 1/2"	TRC140	1590	1810	2050	2550	2600	NR	NR
	356mm	381 - 445mm		45	51.2	58	72.2	73.6		

STANDARD FACE DESIGNS



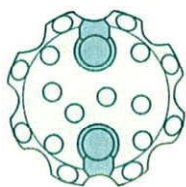
DROP CENTRE

MAXIMUM HOLE DEVIATION CONTROL IN SOFT TO MEDIUM FORMATIONS.



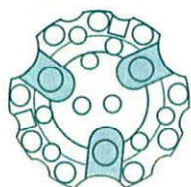
CONCAVE

GENERAL ALL-ROUND BIT FOR MEDIUM TO HARD FORMATIONS. WITH GOOD HOLE DEVIATION CONTROL



FLAT FACE

FOR HARD FORMATIONS



TH^{pat pending}

FOR HARD ABRASIVE AND CONSOLIDATED FORMATIONS

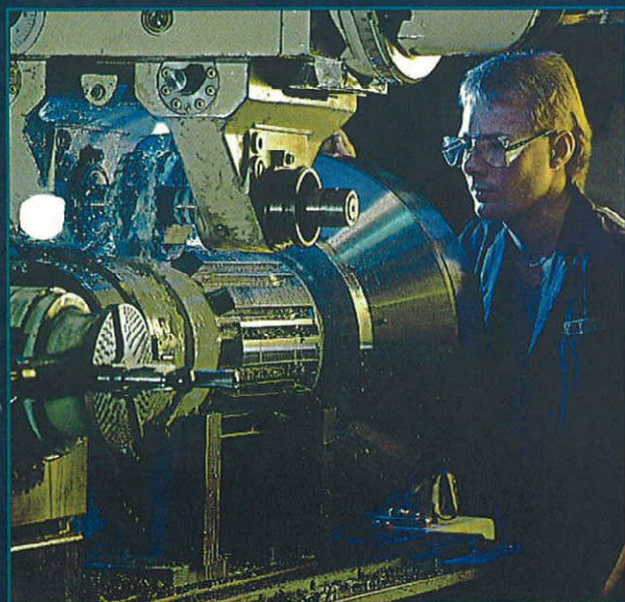
INTERNATIONAL DRILLQUIP MANUFACTURE SIZES, SPECIAL CONFIGURATIONS AND OFFER A RANGE OF CARBIDE GRADES TO CUSTOMERS REQUIREMENTS ON REQUEST

CONVENTIONAL BITS

SHANK CONFIGURATION	BIT SIZE (IMPERIAL)	BIT SIZE (METRIC)
30 - 15	3 ⁵ / ₈ " - 4"	92-102 mm
T40R SD4 MACH 40 DHD 340	4 ¹ / ₈ " - 6 ¹ / ₂ "	105-165 mm
T50R SD5 DHD 350	5 ¹ / ₈ " - 7 ³ / ₈ "	131-187 mm
T60R MACH 60 SD6 DHD 360	6" - 10"	153-254 mm
SD8	7 ³ / ₈ " - 12"	188-305 mm
DHD 380	7 ⁷ / ₈ " - 12"	200-305 mm
SD12 DHD 112	11 ⁷ / ₈ " - 17 ¹ / ₂ "	302-445 mm
SD15	16" - 22"	406-559mm
SD18	18" - 33"	457-838mm

REVERSE CIRCULATION BITS

TRC 36	4"	101mm
TRC42 TRC42-2T	4 ⁵ / ₈ " - 4 ³ / ₄ "	117-121 mm
TRC45	5 ¹ / ₈ " - 5 ¹ / ₄ "	130 -133 mm
TRC47	5 ¹ / ₈ " - 5 ³ / ₄ "	130 -146 mm
TRC70	7 ⁵ / ₈ " - 10"	194 -254 mm
TRC120	13" - 15"	330 -381 mm
TRC140	15" - 17 ¹ / ₂ "	381 - 445 mm



Other bit sizes and shanks covering a full range of options are available

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