

Demolition Tools

P&V

Padley & Venables



ROCK DRILLING
TOOLS



DEMOLITION
TOOLS



CONTRACTORS'
TOOLS

QUALITY TOOLS
MADE IN BRITAIN
PROVEN WORLDWIDE



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INTRODUCTION

Our manufacturing experience on Demolition Tools covers a period of over thirty years, throughout which we have continued to develop high quality tools for an ever-demanding marketplace.

P&V has one quality - the best. All tools are totally manufactured and processed within our modern factory, utilising the very latest machinery and technology, which ensures that our finished products comply with the high standards of quality expected by our customers worldwide. We operate a Quality Management System which is certified to BS EN ISO9001 standard.

Our Demolition Tools are manufactured from specially selected steel specifications which have been evolved from a rigorous research and development programme. We continually investigate refinements to specifications and processes, to ensure that our quality leads the market.

P&V's in-house Heat Treatment Plant is one of the largest of its kind in Europe and enables us to closely control and monitor all aspects of the unique processes we have developed.

The result is a range of quality Demolition Tools that have the hardness, impact strength and durability required to combat the most arduous conditions experienced in demolition, trenching, road construction, quarrying and mining applications.

P&V's Demolition Tools are acknowledged by many major OEMs as the best independently produced tools available worldwide.

Quality Tools. Made in Britain. Proven Worldwide.

CONTENTS	PAGE
Warranty	2
Tool Selection	2
Care and Use	3
Chisel Orientation	4
Catalogue Numbering System	5
Hammer Type & Tool Reference	5-12
Arrowhead	13-14
Atlas Copco	15-21
Caterpillar	22-24
Everdigm	25-27
Furukawa	28-32
Hanwoo	33-34
Indeco	35-38
Italdem	39-41
Krupp	42-46
Montabert	47-54
MSB	55-58
NPK	59-64
Promove	65-66
Rammer	67-76
Rotair	77
Socomec	78-80
Soosan	81-83
Toku	84-86
Toyo	87-89
Catalogue number index	90-94
Warranty Guide	95-96

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PAGE
1

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WARRANTY

Padley & Venables' tools are guaranteed against defects in raw material and manufacture.

No other warranty is implied or expressed. The company's liability in respect of any warranty claims is limited to replacement and does not extend to any other expenditure incurred or to any consequential damage. Warranty claims are subject to immediate notification of any problems and return of the goods to P&V under their returned goods system. See pages 95 & 96 for our full warranty details

TOOL SELECTION

Correct selection of tools is the first step in obtaining maximum life from the product.



Conical Point

for general demolition work where penetrative breaking is required.



Pyramid Points

for use where increased breakout forces are required



XType Point

for use in soft or high dust operations.



Chisels

as for Points but also where a cutting action is required, eg. trenching and benching
Note: Chisels give higher wear rates and stress levels in the retainer flat areas of the tool.



Grooved Chisel

for use in soft or high dust operations.



Driving Tool

for driving in posts, pipes etc.



Wide Chisels

for increased productivity in softer materials. Tarmac Cutters - as Wide Chisels but with 90 degree orientation for cutting/trenching.



Rail Guard

for driving in rail guards.



Blunts

for impact breaking, eg. secondary breaking and also scaling in mines and tunnels, etc.



Upset Blunt

Blunt with increased diameter at working end to give increased life and wear resistance.



Rammer Stems & Pads

for compacting loose ground.



Hard Rock Chisels

for hard and abrasive rock conditions

Working Angle

Critical to tool life is using the tool at the correct working angle of 90° to the working surface. Failure to do this will result in high contact pressure between the tool and the bushings and the likelihood of galling between the surfaces. In turn this can lead to premature failure of the tool plus damage and rapid wear to the bushings. Worn bushings can allow the tool to be angled over to a position where the striking face is hit at an angle by the piston.

Lubrication

Lubrication of the tool/bushing with the correct quality high temperature/high pressure grease at regular intervals is essential. Such greases are best able to cope with the extreme contact pressures generated by an incorrect working angle, leverage and excessive bending etc.

USE OF CHEAP SUBSTITUTES (OR NO GREASE AT ALL) IS FALSE ECONOMY AND WILL RESULT IN PREMATURE TOOL FAILURE.

Blank Firing

Continuing to use the hammer when the tool is not or only partially in contact with the work surface will result in the tool being fired down on to the retainer pin. This will cause heavy wear and damage to the upper retainer flat radius area and the retaining pin itself.

Tools should be examined regularly, eg. every 40 hours for damage in this area which should then be ground out.

At the same time as the tool is examined the opportunity should be taken to check the tool bushings for wear and damage with a view to replacement or reconditioning as necessary.

Overheating

Avoid continuous working in one position. Do not strike in one spot for more than 10 - 15 seconds before changing the tool to another position. Failure to do this can lead to excessive heat build-up at the working end with 'mushrooming' as a consequence.

Leverage/Bending

Using the tool as a lever to help break the ground is a common tool breaker. Avoid leverage and excessive bending at all times.

Loose running

Keep the boom and hammer feed sufficient to ensure that the tool is held against the hammer shoulder stop, at all times when working.

Tool Reconditioning

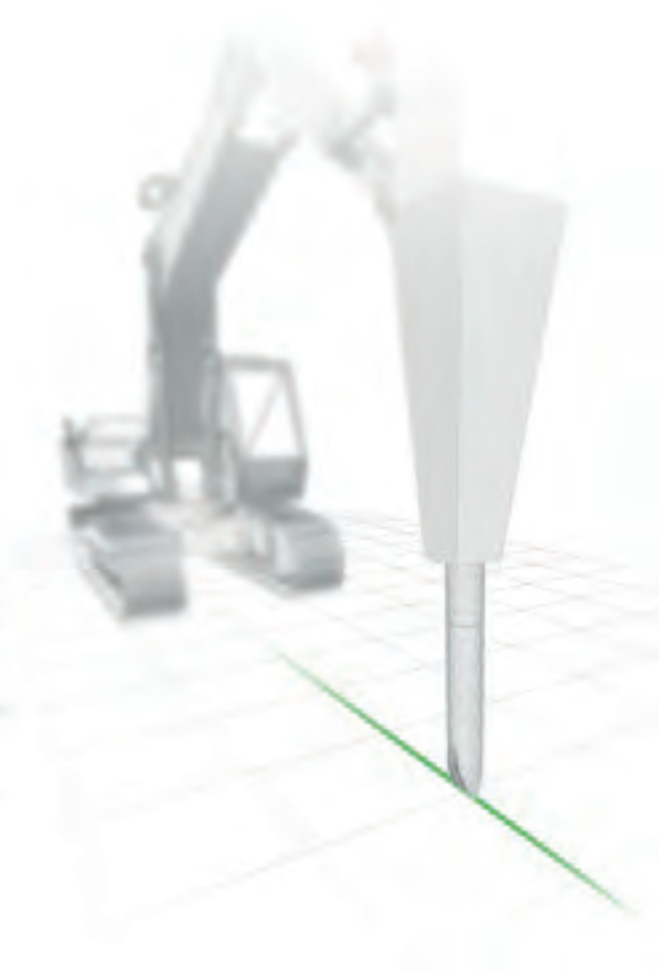
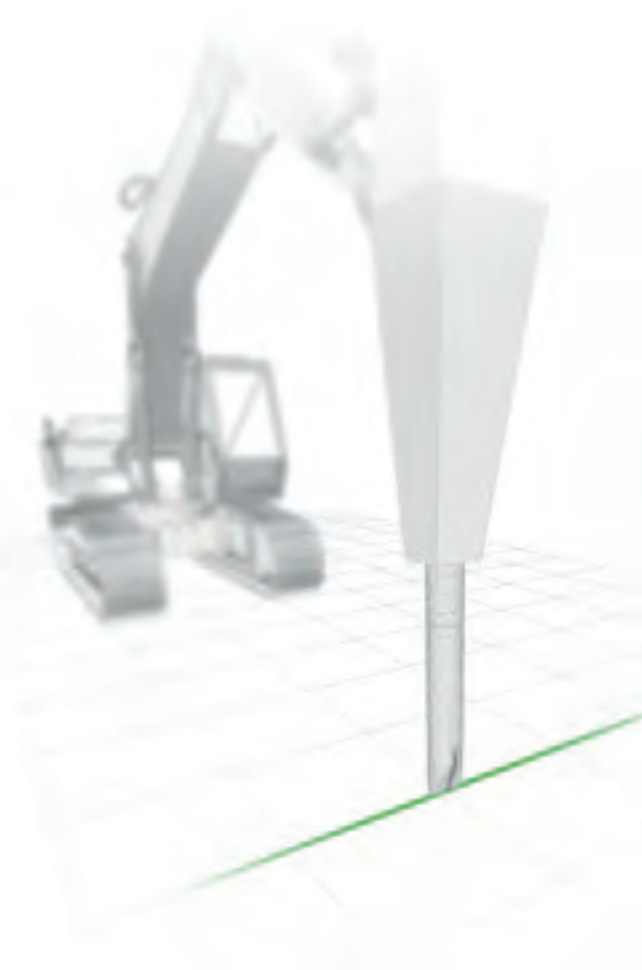
Under most normal conditions the tool will not need reconditioning. However, tools that have lost their shape on the working end can cause high stresses throughout the tool and hammer.

Reconditioning by milling or turning is recommended. Welding or flame cutting is not recommended as the heat generated could cause structural changes within the material which in turn can lead to premature failure or rapid wear.

CHISEL ORIENTATION

Transverse (East/West) have the blade of the tool transverse to the axis of the carrier boom when mounted. All standard chisels and wide chisels have the blade in the transverse mode.

In-Line (North/South) have the chisel tool blade "In-Line" (parallel) to the axis of the carrier boom. All in-line chisels and tarmac cutters have the blade in the "in-line" mode.



CATALOGUE NUMBERING SYSTEM

All catalogue numbers start with the letter 'D', followed by a 3 digit number, which is the P&V designation for the hammer type, eg. **D001-0410P**.

The second section defines the tool length and type, eg. D001-**0410P**. The first 4 digits eg. **0410** represent the tool length in millimetres, whilst the working end configuration is defined by a letter:

'P' = Point (Conical)	'WC' = Wide Chisel, followed by blade width, eg. D001-0410WC-120
'C' = Chisel	'TC' = Tarmac Cutter (in-line wide chisel) eg. D001-0410TC-120
'B' = Blunt	'HRC' = Hard Rock Chisel
'PP' = Pyramid Point	
'XP' = 'X' point	
'GC' = grooved chisel	
'BU' = blunt upset	

For correct selection of tool types see page 2

Note: For special tools such as Railguards, Rammer Stem & Pads and Driving Tools, please contact our sales office.

HAMMER TYPE & TOOL REFERENCE INDEX

MACHINE	FIGURE NO.	PAGE NO.
ALLIED		
HY-RAM 77	165	43
HY-RAM 88	171	44
HY-RAM 99	ON REQUEST	
HY-RAM 700	159	42
HY-RAM 710/711	161	42
HY-RAM 711B	162	42
HY-RAM 715	163	42
HY-RAM 720	ON REQUEST	
HY-RAM 725	164	43
HY-RAM 730	167	43
HY-RAM 735	168	43
HY-RAM 740	169	43
HY-RAM 745	170	44
HY-RAM 750	172	44
HY-RAM 750B	173	44
HY-RAM 755	174	44
HY-RAM 770	ON REQUEST	
HY-RAM 770B	175	44
HY-RAM 775CS	176	45
HY-RAM 780	ON REQUEST	
HY-RAM 785	177	45
HY-RAM 790/795	ON REQUEST	
HY-RAM 795CS	178	45
HY-RAM 797	179	45
HY-RAM 800/805	180	45
HY-RAM 905	182	46
AR48	ON REQUEST	
AR62	ON REQUEST	

MACHINE	FIGURE NO.	PAGE NO.
AR70B	241	57
AR75B	242	57
AR85	243	57
AR95	244	57
AR110B	ON REQUEST	
AR120	247	58
AR130B	248	58
AR140	249	58
AR160C	250	58
AS342	12	15
AS352	13	15
AS362	14	15
AS370	15	15
AS380	16	15
ARDEN		
AB 100/102	ON REQUEST	
AB 150/152/210/212	ON REQUEST	
AB 280/282/292/350/352	ON REQUEST	
AB 450/500/502	ON REQUEST	
AB 1050/1052	ON REQUEST	
AB 1350/1352	ON REQUEST	
AB 1850/1852	ON REQUEST	
AB 3350/3352/3552	ON REQUEST	
ARROWHEAD		
2T	281	63
4T	283	63
6T	ON REQUEST	
10T	8	14

MACHINE	FIGURE NO.	PAGE NO.
16T	ON REQUEST	
22T	ON REQUEST	
S10	1	13
S20	2	13
S30 MK1 (WITH COLLAR)	3	13
S30 MK3 (WITHOUT COLLAR)	4	13
S40	5	13
S50	6	13
S60	7	13
S100	8	14
S130	9	14
S180	10	14
S230	11	14
ATLAS COPCO		
PB110	12	15
PB160	13	15
PB210	14	15
PB310	15	15
PB420/530	16	15
SB50, SBC 60	17	15
SB52	18	16
SB100, SBC 115	19	16
SB102	20	16
SB150, SB152, SBC 255	21	16
SB200, SB202, SBC 410	22	16
SB300/SB302, SBC 610, SBC650	23	16
SB300 SCALER	24	17
TEX250H	25	17
TEX 250H SCALER	26	17

HAMMER TYPE & TOOL REFERENCE INDEX

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PAGE
09

MACHINE	FIGURE NO.	PAGE NO.
SB450, SBC 800/850, SB452	27	17
SB450 SCALER	ON REQUEST	
SB552	28	17
SB702	29	17
MB500	33	18
MB700/800	34	18
MB750	35	18
MB1000	36	19
MB1200	37	19
MB1500	38	19
MB1600	39	19
MB1700	40	19
HB2000	41	19
HB2200	42	20
HB2500	43	20
HB3000/HB3100	44	20
HB3600	45	20
HB4200	46	20
HB4700	47	21
HB5800	48	21
HB7000	49	21
HBC 1100/1700	29	17
HBC 2500	30	18
HBC 4000	31	18
HBC 6000	32	18
TEX 30	17	15
TEX 100H/75H	19	16
TEX 110H	21	16
TEX 180H	22	16
TEX 250H	25	17
TEX 250H SCALER	26	17
TEX 300	ON REQUEST	
TEX 400H/HS	27	17
TEX 600H/700H/900H	29	17
TEX 1400H	30	18
TEX 1800H/2000H	31	18

BERCO		
BB42	12	15
BB52	13	15
BB62	14	15
BB70	15	15
BB80	16	15

BOBCAT		
B280	201	50
B300	191	48
B380	202	50
B500	192	48
B580	203	50
B680	204	50
B600/B700	193	48
B850/B950	194	48
B880	205	50
B980	206	51
B1180	207	51
1250	ON REQUEST	
B1200/B1400	196	49
1560	ON REQUEST	
1750	304	67
2500/2560/2570/3500/3560/3570	ON REQUEST	

MACHINE	FIGURE NO.	PAGE NO.
5500	ON REQUEST	
6560	ON REQUEST	
BROKK		
BROKK 40	17	15
BROKK 50	18	16
BROKK 90	21	16
BROKK 160/180	22	16
BROKK 250/260	23	16
BROKK 330	27	17
BROKK 400	28	17
BROKK 800	36	19

BTI		
BTI BT110	ON REQUEST	
BTI BT285	ON REQUEST	
BTI BT310	ON REQUEST	
BTI BT510	ON REQUEST	
BTI BT710	ON REQUEST	
BTI BT810	ON REQUEST	
BTI BT910	ON REQUEST	
BTI BT1710	ON REQUEST	
BTI BT2010	ON REQUEST	
BTI BT2225	ON REQUEST	

CASE		
CB18	ON REQUEST	
CB27	ON REQUEST	
CB32	ON REQUEST	
CB37	ON REQUEST	
CB45	ON REQUEST	
CB65	ON REQUEST	
CB80	ON REQUEST	
CB85	ON REQUEST	
CB90	ON REQUEST	
CB120	ON REQUEST	
CB135	ON REQUEST	
CB150	ON REQUEST	
CB240	ON REQUEST	
CB260S	ON REQUEST	
CB290	ON REQUEST	
CB320S	ON REQUEST	
CB370S	ON REQUEST	
CB400S	ON REQUEST	
CB550S	ON REQUEST	
CB700S	ON REQUEST	
CB1450	ON REQUEST	
CB2850	ON REQUEST	

CATERPILLAR		
CAT H45/H45FT	303	67
CAT H50/H50FT	304	67
CAT H63/H63FT	305	67
CAT H70/H70FT	307	67
CAT H90/H90FT	309	68
CAT H100/H100FT	311	68
CAT 110/B110	312	68
CAT H115S	321	70
CAT 115C/116	313	68
CAT H120S	314	68
CAT H130S	324	70
CAT C130	315	69

MACHINE	FIGURE NO.	PAGE NO.
CAT 140/B140S/H140AS	317	69
CAT H140CS,140DS	325	70
CAT 160/B160/H160AS	318	69
CAT H160CS.H160DS	327	71
CAT 170/B170/H170	319	69
CAT H180S	329	71
CAT H180DS	330	71
CAT 195/B195/H195	331	71
CAT H35DS	50	22
CAT H45DS	51	22
CAT H55DS	52	22
CAT H65DS	53	22
CAT H35ES	54	22
CAT H45ES	55	22
CAT H55ES	56	22
CAT H65ES	57	23
CAT H75ES	58	23
CAT H95ES	59	23
CAT H110ES	60	23
CAT H115ES	61	23
CAT H120ES	62	23
CAT H130ES	63	23
CAT H140ES	64	24
CAT H160ES	65	24
CAT H180ES	66	24

CHICAGO PNEUMATIC (CP)		
CP100 / RX2	12	15
CP150 / RX3	13	15
CP200 / RX4	14	15
CP300 / RX6	15	15
CP400 / CP550 / RX8 / RX11	16	15
CP750 / RX14	170	44
CP1150	173	44
CP1550 / CP1650 / RX22	175	44
CP2250 / RX29/RX30	177	45
RX38	43	20
CP2350	31	18
CP3050 / RX45 / RX46	44	20
CP4250 / RX53 / RX54	46	20

D&A		
S80, 8V	ON REQUEST	
S150, 200, 15V, 17V, 20V	ON REQUEST	
S300, S500, 30V, 40V, 50V	ON REQUEST	
S700, 70V	ON REQUEST	
S1300, 130V	ON REQUEST	
150V, 151V	ON REQUEST	
180V, 1800	ON REQUEST	
S2200, 200V, 220V	ON REQUEST	
S3000, 300V	ON REQUEST	
S3600, 360V	ON REQUEST	
450V	ON REQUEST	

DAEMO		
DMB S150V	ON REQUEST	
DMB S500V	ON REQUEST	
DMB S900V	ON REQUEST	
DMB S1300V	ON REQUEST	
DMB S1800V / DMB S2000V	ON REQUEST	
DMB S2200, 2200 II, S2300V	ON REQUEST	
DMB S3000V / S3600V	ON REQUEST	

HAMMER TYPE & TOOL REFERENCE INDEX

MACHINE	FIGURE NO.	PAGE NO.
DMB S5000V	ON REQUEST	
DMB50	ON REQUEST	
DMB90	ON REQUEST	
DMB140	ON REQUEST	
DMB180	ON REQUEST	
DMB210	ON REQUEST	
DMB230	ON REQUEST	
DMB300 / 360	ON REQUEST	

DAINONG (DNB)		
DNB K20	82	28
DNB K25	98	30
DNB K30	99	31
DNB K50	101	31
DNB K80 / 100	103	31
DNB K120	104	31
DNB D50	309	68
DNB D60	313	68
DNB D70 / 90	315	69
DNB D110	317	69
DNB D130	ON REQUEST	
DNB D160	319	69
DNB D20 IIS	ON REQUEST	
DNB D25 IIS	ON REQUEST	
DNB D60 IIS	ON REQUEST	
DNB D70 IIS / D90IIS	ON REQUEST	
DNB D110 IIS	ON REQUEST	
DNB D160 IIS	ON REQUEST	

DEHACO		
DBH15	393	81
DBH91	ON REQUEST	
DBH380	406	83
DBH450	ON REQUEST	
DHB 35	425	87
DHB 55	426	87
DHB 75	427	87
DHB165	428	87
DHB 305	430	87
DHB 405	431	88
DHB 805	432	88
DHB 1250	433	88
DHB 1305	434	88
DHB 1605 (1405)	435	88
DHB 2305	436	88
DHB 3205 (4105)	432	88
DHB100S	ON REQUEST	
DHB150S	ON REQUEST	
DHB200S	ON REQUEST	
DHB250S	ON REQUEST	
DHB300S	ON REQUEST	
DHB350S	ON REQUEST	
DHB400S	ON REQUEST	
DHB1000S	ON REQUEST	
DHB1500S / DHB120	102	31
DHB2000S	103	31
DHB3600S	104	31
DHB4200S	ON REQUEST	

DEMOTER (VISTIRINI)		
S65	ON REQUEST	
DM90, DM95E, S85	ON REQUEST	

MACHINE	FIGURE NO.	PAGE NO.
DM120, S130	ON REQUEST	
DM160, S170	ON REQUEST	
DM160RE	98	30
DM220 / 240 , S230	ON REQUEST	
DM240RE	85	28
S300 / 360	ON REQUEST	
DM400S	ON REQUEST	
S430	167	43
S550	ON REQUEST	
S800	ON REQUEST	

DOOSAN		
DXB100H	221	53
DXB130H	222	53
DXB170H	223	53
DXB190H	224	54
DXB260H	225	54

DRAGO		
DRH50 / 60 / 70 / 80	409	84
DRH120	410	84
DRH150	411	84
DRH180 / 250	412	84
DRH280	413	85
DRH650S / 900	415	85
DRH1150S / 1600S	416	85
DRH1900	417	85

EURORAM / GLOBORAM / ROCKMASTER		
RM45	123	35
RM48	124	35
RM56	125	35
RM65	126	35
RM75	127	35
RM80	128	35
RM85 / 90	131	36
RM88	130	36
RM110	132	36
RM115	133	36
RM120	134	36
RM130	135	37
RM140	137	37
RM145	138	37
RM150	139	37
RM160	140	37
RM180	141	38
RM195	142	38
RM215	ON REQUEST	

EVERDIGM		
EHB008	67	25
EHB01 / EHB02	68	25
EHB03	69	25
EHB04	70	25
EHB05	71	25
EHB06	72	26
EHB10	73	25
EHB13	74	26
EHB17	75	26
EHB20	76	26
EHB25	77	27
EHB30	78	27

MACHINE	FIGURE NO.	PAGE NO.
EHB40	79	27
EHB50	80	27

FURUKAWA		
F1	81	28
F2	82	28
F3	83	28
F4	84	28
F5	85	28
F6	86	28
F9	87	29
F12	88	29
F19	89	29
F20 / F22	90	29
F27	91	29
F30 / F35	92	29
F45	93	30
F70	94	30
F100	95	30
FXJ / FX125	106	32
FXJ / FX175	107	32
FXJ / FX275	108	32
FXJ / FX375	109	32
FXJ / FX475	110	32
HB1G	96	30
HB2G	97	30
HB3G	98	30
HB5G	99	31
HB8G	100	31
HB10G	101	31
HB15G	102	31
HB20G	103	31
HB30G	104	31
HB40G	105	32
HB100G	95	30
HB100	ON REQUEST	
HB200	ON REQUEST	
HB400	ON REQUEST	
HB700	ON REQUEST	
HB1100 / 1300	ON REQUEST	
HB1200 / 1500	ON REQUEST	
HB1600 / 1800 / 2000	ON REQUEST	

HANWOO / RHINO / MAGNUM		
RHB 301-V / 302-V	111	33
RHB 302 / 303-V	112	33
RHB 303 / 303-VP	113	33
RHB 305 / 305-V	114	33
RHB 306	115	33
RHB 308	116	33
RHB 308-2 / 309	117	34
RHB 313-V / 314	118	34
RHB 320	119	34
RHB 322-2 / 323 / 325	120	34
RHB 328-2 / 330	121	34
RHB 340	122	34
RHB 350	ON REQUEST	

HUPPI		
HUPPI 52	407	84
HUPPI 72	408	84
HUPPI 92	ON REQUEST	

HAMMER TYPE & TOOL REFERENCE INDEX

MACHINE	FIGURE NO.	PAGE NO.
HUPPI 102	410	84
HUPPI 102 (MK2)	ON REQUEST	
HUPPI 302	412	84
HUPPI 402	413	85
HUPPI 902	415	85
HUPPI 1900 / 1902	420	86

HUSKY / JACTY

HH100	ON REQUEST	
HH150	ON REQUEST	
HH300	ON REQUEST	
HH500	ON REQUEST	
HH750	ON REQUEST	
HH1000	ON REQUEST	
HH1500	ON REQUEST	
HH2000	ON REQUEST	
HH3600	ON REQUEST	
HH4500	ON REQUEST	

IDROMECCANICA

IMI 85	183	47
IMI 88	368	77
IMI 260	185	47
IMI 600 / 605	186	47
IMI 1000 / 1010	187	47
IMI 1200	190	48

INAN MAKINA (MTB)

MT 10	ON REQUEST	
MT 15	409	84
MT 20	ON REQUEST	
MT 25	241	57
MT 30	ON REQUEST	
MT 35 / 36	242	57
MT 45	243	57
MT 120	246	57
MT 150	247	58
MT 170	248	58
MT 210	249	58
MT 275	250	58
MT 360	251	58

INDECO

HB5	126	35
HB8	128	35
HB12	131	36
HB18	ON REQUEST	
HB19	132	36
HB27	134	36
MES / UP 121 / 150P, HP150	123	35
MES / UP 180 / 181 / 200P, HP200	124	35
MES/UP300/301/350P/351P, HP300/350	125	35
MES/UP451/452/462P/521/550, HP500	126	35
MES / UP 553P, HP600	127	35
MES / UP 601 / 621 / 650P, HP700	129	36
UP 900, HP900	130	36
MES / UP 1200, HP1200	131	36
MES / UP 1500, HP1500	132	36
MES / UP 1750 / 1800, HP1800	133	36
MES / UP 2000, HP2000	134	36
MES / UP 2500, HP2500	135	37
HP2750	136	37

MACHINE	FIGURE NO.	PAGE NO.
MES / UP 3000, HP3000	137	37
MES / UP 3500, HP3500	138	37
MES / UP 4000 / 4001, HP4000	139	37
MES / UP 5000, HP5000	140	37
MES / UP 7000, HP7000	141	38
MES / UP 8500, HP9000	142	38
MES / UP 12000, HP12000	ON REQUEST	

ITALDEM

GK 85 / 86	143	39
GK 160 / 161	144	39
GK 211	145	39
GK 290 / 291	146	39
GK 360 / 361	147	39
GK 600 / 610 / 620	148	39
GK 950 / 960	149	40
GK 1050	150	40
GK 1350 / 1351	151	40
GK 1351S	152	40
GK 1600	153	40
GK 1800	154	40
GK 2300	ON REQUEST	
GK 2400	155	41
GK 3400 / 3500	156	41
GK 3800	157	41
K 80	183	47
K 270	185	47
K 550	186	47
K 1000	187	47
K 1030	189	48
K 1300	190	48
K 1900	ON REQUEST	
MK 95 / IM 12.S	ON REQUEST	
MK 350 / IM 65 / 70	ON REQUEST	
MK 650 / IM 100	ON REQUEST	
MK 1300 / IM210	ON REQUEST	
MK 1700	ON REQUEST	
MK 2600	ON REQUEST	
MK 3500	ON REQUEST	

JAB

JB8	ON REQUEST	
JB10	ON REQUEST	
JB20	ON REQUEST	
JB30	ON REQUEST	
JB40	ON REQUEST	
JB60	ON REQUEST	
JB80	ON REQUEST	

JACTY

NJB202 / JB-1S	ON REQUEST	
NJB203 / JB-3S	ON REQUEST	
NJB206 / JB-6S	ON REQUEST	
NJB212 / JB-12	ON REQUEST	
NJB215 / JB-15	ON REQUEST	
NJB221 / JB-21	ON REQUEST	
NJB227 / JB-27	ON REQUEST	

JCB

HM60	ON REQUEST	
HM100 / 100Q / 115 (45)	ON REQUEST	
HM140	ON REQUEST	

MACHINE	FIGURE NO.	PAGE NO.
HM160	304	67
HM165	21	16
HM260	306	67
HM265	22	16
HM360	308	67
HM385 / 386Q	23	16
HM460	309	68
HM480	186	47
HM495	27	17
HM550	310	68
HM560	313	68
HM630	189	48
HM660	314	68
HM690	210	51
HM760	315	69
HM850	311	68
HM860	34	18
HM960	318	69
HM1050	321	70
HM1150	320	69
HM1260 / HM1270Q	173	44
HM1350	314	68
HM1450	322	70
HM1560	39	19
HM1750	324	70
HM1760	40	19
HM2350	325	70
HM2460	42	20
HM2950	327	71
HM3060	36	19
HM3850	329	71
HM3950	330	71
HM4160	46	20

JKHB (KOMATSU)

JKHB 31	425	87
JKHB 51	426	87
JKHB 71	427	87
JKHB 101	428	87
JKHB 201	429	87
JKHB 301	430	87
JKHB 401	431	88
JKHB 801	432	88
JKHB 1101	433	88
JKHB 1401	434	88
JKHB 1500 / 1600	435	88
JKHB 2000	436	88
JKHB 3000	437	89

KENT

KB555	ON REQUEST	
KB999	ON REQUEST	
KF1	81	28
KF2	82	28
KF3	83	28
KF4	84	28
KF5	85	28
KF6	86	28
KF9	87	29
KF12	88	29
KF19	89	29
KF22	90	29

HAMMER TYPE & TOOL REFERENCE INDEX

MACHINE	FIGURE NO.	PAGE NO.
KF27	91	29
KF35	92	29
KF45	93	30
KF70	94	30
KF100	95	30
KHB100	ON REQUEST	
KHB200	ON REQUEST	
KHB400	ON REQUEST	
KHB700	ON REQUEST	
KHB1100 / 1300	ON REQUEST	
KHB1200 / 1500	ON REQUEST	
KHB1G	96	30
KHB2G	97	30
KHB3G	98	30
KHB5G	99	31
KHB8G	100	31
KHB10G	101	31
KHB15G	102	31
KHB20G	103	31
KHB30G	104	31
KHB40G	105	32
KHB50G	ON REQUEST	
KOMAC		
KB100	ON REQUEST	
KB150	ON REQUEST	
KB200	ON REQUEST	
KB250	ON REQUEST	
KB300	ON REQUEST	
KB350	ON REQUEST	
KB400	ON REQUEST	
KB1000	ON REQUEST	
KB1500	ON REQUEST	
KB2000	ON REQUEST	
KB3600	ON REQUEST	
KB4200	ON REQUEST	
TOR13	ON REQUEST	
TOR22 / 23	ON REQUEST	
KOMATSU		
JTHB08	407	84
JTHB10	408	84
JTHB20	409	84
JTHB30	410	84
JTHB40	411	84
JTHB50	412	84
JTHB60 / 65	413	85
JTHB70	ON REQUEST	
JTHB100	415	85
JTHB150	420	86
JTHB190	421	86
JTHB230	422	86
JTHB310	423	86
JTHB400	424	86
JKHB31	425	87
JKHB51	426	87
JKHB71	427	87
JKHB101	428	87
JKHB301	430	87
JKHB401	431	88
JKHB801	432	88
JKHB1101	433	88

MACHINE	FIGURE NO.	PAGE NO.
JKHB1401	434	88
JKHB1600	435	88
JKHB2000	436	88
JKHB3000	437	89
KRUPP (SEE ALSO ATLAS COPCO)		
HM45	158	42
HM50 / 55	159	42
HM60V	160	42
HM60 / 61 / 62 / 75	161	42
HM85 / 90 / 90V	162	42
HM100 / 110	ON REQUEST	
HM130 / 135 / 140 / 140V	163	42
HM170 / 185 / 190 / 190V	164	43
HM200	165	43
HM220 / 230	166	43
HM300 / 301 / 305	167	43
HM350 / 350V / MB500	168	43
HM400 / 401	ON REQUEST	
HM550 / 551 / 555 / 560CS / V	169	43
HM580 / MB700	170	44
HM600 / 601	171	44
HM700 / 701 / 702 / 705 / 706	172	44
HM710 / 711 / 712 / 715 / 720CS / V	173	44
HM780 / MB1200	174	44
HM800	ON REQUEST	
HM900 / 901 / 902	ON REQUEST	
HM950 / 951 / 952 / 957 / 960CS / V	175	44
HM1000V / MB1700	176	45
HM1200 / 1201 / 1205	ON REQUEST	
HM1300 / 1301 / 1305	ON REQUEST	
HM1500MV / HB2200	177	45
HM2000MV	178	45
HM2100 / 2300 / HB3000	179	45
HM2500MV / 2600 / HB4200	180	45
HM3000 / HB5800	181	45
HM4000 / HB7000	182	46
KUBOTA		
KM10	17	15
KM100	19	16
KM150	21	16
KM200	22	16
KM300	23	16
KM450	27	17
KXB 310	335	72
KXB 300 / 350	303	67
KXB 360	336	72
KXB 400 / BTB400	338	72
KXB 450	340	73
KXB 460	339	72
KXB 500	343	73
KXB 600	345	73
LIFTON		
LH70 / LH80	ON REQUEST	
LH110	ON REQUEST	
LH200	ON REQUEST	
LH170/300	ON REQUEST	
LH360	ON REQUEST	
LH500	ON REQUEST	
LH1000	ON REQUEST	

MACHINE	FIGURE NO.	PAGE NO.
MONTABERT		
BRH40	183	47
BRH75 / 76 / 90 / 91	184	47
BRH125	185	47
BRH250 / 270	186	47
BRH501 / 570	187	47
BRH620	188	47
BRH625 / 900	189	48
BRH750	190	48
BRH1100	ON REQUEST	
M30 (BRP30)	191	48
M50 (BRP45 / 50)	192	48
M70 (BRP60 / 70)	193	48
M85 / 95 / 100 (BRP85 / 95 / 100)	194	48
M125SX	195	49
M140 / 150 (BRP130 / 140 / 150)	196	49
M300	197	49
M600	198	49
M700	199	49
M900	200	49
SC06	201	50
SC08	202	50
SC12	203	50
SC16	204	50
SC22	205	50
SC28	206	51
SC36	207	51
SC42	208	51
SC50	209	51
V32 (BRV32)	210	51
V43 (BRV43)	211	51
V45 (BRV45)	212	52
V52 (BRV52)	ON REQUEST	
V53 (BRV53)	213	52
V55 (BRV55)	214	52
V65 (BRV65)	215	52
V1200 / V32	210	51
V1600	216	52
V1800	217	52
V2500	218	53
V3500	219	53
V4500	220	53
Z92 / Z91	ON REQUEST	
Z96	ON REQUEST	
(BLUE LINE)		
XL1000	221	53
XL1300	222	53
XL1700	223	53
XL1900	224	54
XL2600	225	54
MSB		
SAGA 20II	226	55
SAGA 30II	227	55
SAGA 40II	228	55
SAGA 50	229	55
SAGA 80 / 81	230	55
SAGA 100	231	55
SAGA 120	232	55
SAGA 180	233	56
SAGA 200II / 220	234	56

HAMMER TYPE & TOOL REFERENCE INDEX

MACHINE	FIGURE NO.	PAGE NO.
SAGA 300	235	56
SAGA 350	236	56
MS 35AT	237	56
MS 45AT	238	56
MS 75AT	239	56
SAGA 1000	ON REQUEST	
SAGA 1500	ON REQUEST	
SAGA 2000	ON REQUEST	
MS200	240	57
MS220 / MS230H	241	57
MS225 / MS250H	242	57
MS300H	243	57
MS400H	244	57
MS450H / MS460H	245	57
MS500H / MS520H	246	57
MS550H	247	58
MS600	248	58
MS700	249	58
MS800 / MS810H	250	58
MS900	251	58
MS1000H	252	58

MTB		
MT10	ON REQUEST	
MT15	409	84
MT20 / MT21	ON REQUEST	
MT25	241	57
MT30	ON REQUEST	
MT35 / 36	242	57
MT45	243	57
MT65	ON REQUEST	
MT85	ON REQUEST	
MT120	246	57
MT150	247	58
MT170	248	58
MT210	249	58
MT250	ON REQUEST	
MT255	ON REQUEST	
MT270 / 275	250	58
MT360	251	58

NPK		
E-12X	270	61
E-15X	272	61
E-18X	274	62
E-24X	276	62
E106	253	59
E-200 / GH06	254	59
E-201 / GH07	255	59
E-202 / GH1	256	59
E-203 / GH2	257	59
E-204 / GH3	258	59
E-205 / GH4	259	59
E-206	260	60
E-207 / GH6	261	60
E-208A	262	60
GH7	263	60
GH9	264	60
GH10	265	60
GH12	266	60
GH15	267	61
GH18	268	61

MACHINE	FIGURE NO.	PAGE NO.
E-210A	269	61
E-212	270	61
E-213	271	61
E-215	272	61
E-216	273	61
E-218	274	62
E-220	275	62
E-224	276	62
E-225	277	62
E-235	278	62
E-240A	279	62
H-06X	280	62
H-08XA	281	63
H-1XA	282	63
H-2XA / H-2XE	283	63
H-3XA / H-3XE	284	63
H-4X	285	63
H-6XA	286	63
H-7XA	287	63
H-8XA	288	64
H-10XB / E / GH9	289	64
H-12X / E	290	64
H-16X / E	291	64
H-20X / E	292	64

O&K		
H32	304	67
H45	305	67
H65	306	67
H85	308	67
H120	310	68
H150	311	68
H200	321	70
H260	323	70
H310	324	70
H380	325	70
H530	327	71
H700	330	71

OCM		
OCM8	183	47
OCM25	185	47
OCM55	186	47
OCM100	187	47
OCM130	190	48

OKADA		
OKB / UB 301	ON REQUEST	
OKB / UB 301SL	ON REQUEST	
OKB / UB 302	ON REQUEST	
OKB / UB 302A	ON REQUEST	
OKB / UB 303A	ON REQUEST	
OKB / UB 304	ON REQUEST	
OKB / UB 304B	ON REQUEST	
OKB / UB 305	ON REQUEST	
OKB / UB 306	ON REQUEST	
OKB / UB 308	ON REQUEST	
OKB / UB 310	ON REQUEST	
OKB / UB 312A	ON REQUEST	
OKB / UB 312B	ON REQUEST	
OKB / UB 316	ON REQUEST	
OKB / UB 318	ON REQUEST	

MACHINE	FIGURE NO.	PAGE NO.
OKB / UB 324	ON REQUEST	
TOP200	ON REQUEST	
TOP205 / 210	ON REQUEST	
TOP300	ON REQUEST	
UB2	ON REQUEST	
UB4	ON REQUEST	
UB5	ON REQUEST	
UB8	ON REQUEST	
UB11	ON REQUEST	
UB14	ON REQUEST	
UB17 / OKB17A2	ON REQUEST	
HB360A	ON REQUEST	

OMAL		
OMAL 80	183	47
OMAL 86	ON REQUEST	
OMAL 80S	367	77
OMAL 180 / 190 / 190S	ON REQUEST	
OMAL 235 / 270 / 270S / 276	185	47
OMAL 500 / 550	186	47
OMAL 1000 / 1050	187	47
OMAL 1300	134	36
OMAL 1700	ON REQUEST	

OMD		
OMD 20	183	47
OMD 30	185	47
OMD 50	186	47
OMD 100	187	47
OMD 2000	190	48

PEL-JOB		
MH90	367	77
MH95	368	77
MH180	370	77

PRODEM		
PRB008	67	25
PRB010	68	25
PRB030	69	25
PRB040	70	25
PRB050	71	25
PRB060	72	26
PRB090	ON REQUEST	
PRB100	73	26
PRB130	74	26
PRB170	75	26
PRB200	76	26
PRB250	77	27
PRB300	78	27
PRB400	79	27
PRB500	80	27

PROMOVE		
P4	ON REQUEST	
P6 / SH	ON REQUEST	
P22	189	48
P23	133	36
PMV90 / P3SH	183	47
PMV290 / 390 / P12SH	185	47
PMV690 / P16SH	186	47
PMV1000 / P23SH	187	47
PMV1390 / P27SH	190	48

HAMMER TYPE & TOOL REFERENCE INDEX

MACHINE	FIGURE NO.	PAGE NO.
XP100	293	65
XP101	12	15
XP150	294	65
XP250	295	65
XP300 / XP400 / XP450	296	65
XP550 / XP551	297	65
XP800	298	65
XP1200	299	65
XP1500	300	66
XP2400	301	66
XP4500	302	66

RAMMER / SANDVIK		
E63	320	69
E64	321	70
E65	322	70
E66 / S55	323	70
E68	324	70
G80	325	70
G88	326	70
G90	327	71
G99	328	71
G100	329	71
G110	330	71
G120	331	71
G130	332	71
S18 / PICCOLO	303	67
S21	304	67
S22	305	67
S23	306	67
S24	307	67
S25	308	67
S26	309	68
S27	310	68
S29	311	68
S52	312	68
S54	313	68
S55 / E66	314	68
S56	315	69
S82	316	69
S83	317	69
S84	318	69
S86	319	69
M14	333	72
M18	334	72
BR111	335	72
BR222	336	72
BR255	337	72
BR321	338	72
BR333	339	72
BR355	51	22
BR422	340	73
BR455	341	73
BR555	342	73
BR623	343	73
BR777	344	73
BR825	345	73
BR927	346	73
BR999	347	74
BR1129	348	74
BR1533	349	74

MACHINE	FIGURE NO.	PAGE NO.
BR2063	350	74
BR2064	351	74
BR2155	352	74
BR2214	353	74
BR2265	354	75
BR2266	355	75
BR2568	356	59
BR2577	357	59
BR2518	358	75
BR3088 / 3288	359	75
BR3890	360	76
BR4099	361	76
BR4510	362	76
BR4511	363	76
BR5011	364	76
BR7013	365	76

ROBI		
MH7	335	72
MH11	336	72
MH15	339	72
BH30	306	67
BH50	308	67
BH80	311	68
EH170	357	75
EH240	359	75

ROTAIR		
OL50	366	77
OL90 (WITH COLLAR)	367	77
OL90 / 95	368	77
OL130 / 160	369	77
OL180 / 260	370	77
OL250 / 330	371	77

SANDHURST		
SMC XT70	12	15
SMC XT100	13	15
SMC XT200	14	15
SMC XT300	15	15
SMC XT400	16	15

SMC		
SMC TF-14BA	ON REQUEST	
SMC 1000	ON REQUEST	
SMC 1400	ON REQUEST	
SMC 1500	ON REQUEST	
SMC 2000	ON REQUEST	
SMC 3000	ON REQUEST	
SMC XE4500	ON REQUEST	
SMC XE3500	ON REQUEST	

SOCOMECH		
DMS 50	372	78
DMS 95 / 95-2 / MDO 55	373	78
DMS 150 / 160 / 165 MDO 80	374	78
DMS 210	375	78
DMS 220 / MDO 100	376	78
DMS 270	377	78
DMS 310 / 330 / MDO 250 / 260	378	79
MDO 300	379	79
DMS 410	380	79
DMS 430 / MDO 450	381	79

MACHINE	FIGURE NO.	PAGE NO.
MDO 500	382	79
MDO 550	384	79
DMS 680 / 740 / 850 / 910	383	79
MDO 750	385	80
MDO 900V	386	80
MDO 1450	387	80
MDO 1950	388	80
MDO 2050	389	80
MDO 3200 / MDO 3000	390	80
MDO 4000	391	80

SOOSAN		
SB10	392	81
SB20	393	81
SB30	394	81
SB35	395	81
SB40 / SB4	396	81
SB43	397	81
SB45 / SB5	398	82
SB50	399	82
SB60	400	82
SB70 / SB71	401	82
SB80	ON REQUEST	
SB81	402	82
SB100	403	82
SB121 / 120A	404	83
SB130 / 140	405	83
SB151	406	83

STANLEY		
MB 105	ON REQUEST	
MB 125	ON REQUEST	
MB 156	ON REQUEST	
MB 250 / 256 / 350 / 356	ON REQUEST	
MB 506	ON REQUEST	
MB 550	ON REQUEST	
MB 656 / 675 / 695	ON REQUEST	
MB 800 / 856	ON REQUEST	
MB 1550	ON REQUEST	
MB 1950 / 1975	ON REQUEST	
MB 2850	ON REQUEST	
MB 2950 / 2975	ON REQUEST	
MB 5950	ON REQUEST	
MB20EX	ON REQUEST	
MB30EX	ON REQUEST	
MB40EX	ON REQUEST	
MB50EX	ON REQUEST	
MB70EX	ON REQUEST	
MB80EX	ON REQUEST	
MB100EX	ON REQUEST	

STAR		
SH40	183	47
SH91	143	39
SH151 / 161	144	39
SH200	145	39
SH280	185	47
SH281	146	39
SH560	186	47
SH561 / 562	148	39
SH990	187	47
SH991	149	40

HAMMER TYPE & TOOL REFERENCE INDEX

MACHINE	FIGURE NO.	PAGE NO.
SH992	150	40
SH1200	189	48
SH1400	190	48
SH1401	151	40
SH1402	152	40
SH2000	ON REQUEST	

STELCO

SEL110	ON REQUEST	
SEL150	ON REQUEST	
SEL 220	ON REQUEST	
SEL 350	ON REQUEST	

TABE

AGB 100 / 175 / 200	ON REQUEST	
AGB 175	ON REQUEST	
AGB 270 / 275 / 350 / 370 / 375	ON REQUEST	
AGB 95	ON REQUEST	
AGB 400 / 475	ON REQUEST	
AGB 700 / 701 / 750	ON REQUEST	
AGB 1000 / 1300 / 1301	ON REQUEST	
AGB 1600 / 1620	ON REQUEST	
AGB 1800	ON REQUEST	
AGB 30	ON REQUEST	

TAKEUCHI

TKB-31	425	87
TKB-51	426	87
TKB-71	427	87
TKB-101	428	87
TKB-201	429	87
TKB-301	430	87
TKB-401	431	88
TKB-801	432	88
TKB-1101	433	88
TKB-1401	434	88
TKB-1600	435	88
TKB-2000	436	88
TKB-3000	437	89

TELEDYNE

TB120 / 125	409	84
TB180 / 225	410	84
TB275 / TB285	411	84
TB220 / 325	412	84
TB400 / 425 / 625	413	85
TB700 / 725 / 750 / 825	415	85
TB830	419	86
TB900 / 925 / 975 / 1000 / 1025	416	85
TB980	420	86
TB1300 / 1425	417	85
TB1680	422	86
TB1825 / 2075	418	85
TB2080	423	86
TB2580	424	86

TOKU (BTI)

TNB 08M	407	84
TNB 08E / 1M	408	84
TNB 1E / 2M	409	84
TNB 2E / 3M	410	84
TNB 3E / 4M	411	84
TNB 4E / 5M	412	84

MACHINE	FIGURE NO.	PAGE NO.
TNB 6E / 6.5E / 7M	413	85
TNB 7J	414	85
TNB 7E / 10E	415	85
TNB 14E / 16E	416	85
TNB 22E / 23E	417	85
TNB-31E / 30E	418	85
TNB 100	419	86
TNB 150 / 151	420	86
TNB 190	421	86
TNB 230	422	86
TNB 310	423	86
TNB 400	424	86

TOPA

TOPA 70	ON REQUEST	
TOPA 100	ON REQUEST	
TOPA 200	ON REQUEST	
TOPA 300	ON REQUEST	
TOPA 500	ON REQUEST	
TOPA 1000	ON REQUEST	
TOPA 1400	ON REQUEST	
TOPA 1500	ON REQUEST	
TOPA 2000	ON REQUEST	

TOYO

THBB 31	425	87
THBB 51	426	87
THBB 71	427	87
THBB 101	428	87
THBB 201	429	87
THBB 301	430	87
THBB 401	431	88
THBB 801	432	88
THBB 1101	433	88
THBB 1401	434	88
THBB 1600	435	88
THBB 2000	436	88
THBB 3000	437	89

VISTARINI (SEE DEMOTER)

VH60	ON REQUEST	
VH90	ON REQUEST	
VH120	ON REQUEST	
VH150	ON REQUEST	
VH160 / 200	ON REQUEST	
VH220 / 300 / 330	ON REQUEST	
VH382	ON REQUEST	
VH440	ON REQUEST	

VOLVO

HB80	303	67
HB130	304	67
HB200	305	67
HB300	306	67
HB440	308	67
HB600	310	68
HB800	311	68
HB1100	320	69
HB1400	322	70
HB1700	324	70
HB2400	325	70
HB3200	327	71

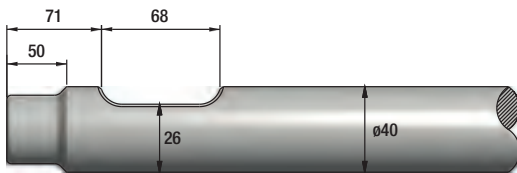
MACHINE	FIGURE NO.	PAGE NO.
HB3800	330	71

WIMMER

W-220	241	57
W-330	243	57
W-440	244	57
W-550	246	57
W-600	247	58
W-660	248	58
W-770	249	58
W-880	250	58
W-990	251	58

ARROWHEAD S10

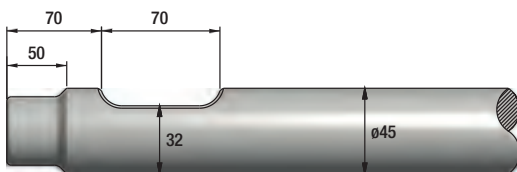
FIGURE 1



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	450	D617-0450P	4.2
Chisel	40	450	D617-0450C	4.2

ARROWHEAD S20

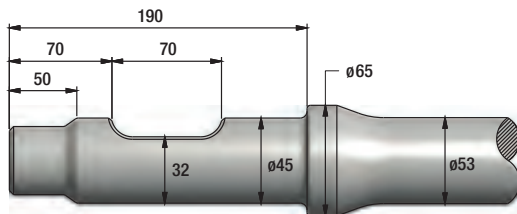
FIGURE 2



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	480	D620-0480P	5.7
Chisel	45	480	D620-0480C	5.7

ARROWHEAD S30 (MK1 WITH COLLAR)

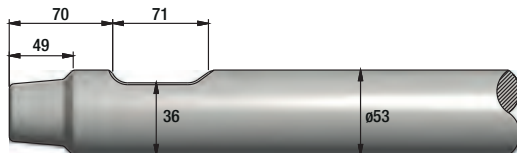
FIGURE 3



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	500	D621-0500P	6.0
Chisel	45	500	D621-0500C	6.0

ARROWHEAD S30 (MK3)

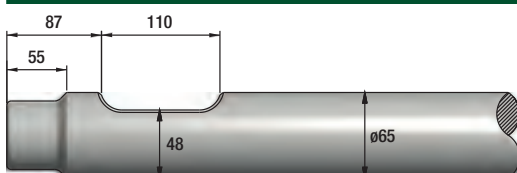
FIGURE 4



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	53	500	D628-0550P	8.3
Chisel	53	500	D628-0550C	8.3

ARROWHEAD S40

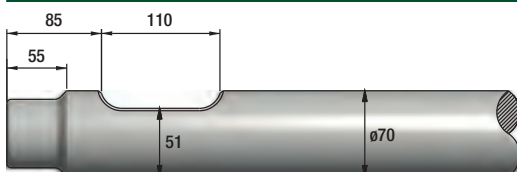
FIGURE 5



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	620	D622-0620P	15.4
Chisel	65	620	D622-0620C	15.4

ARROWHEAD S50

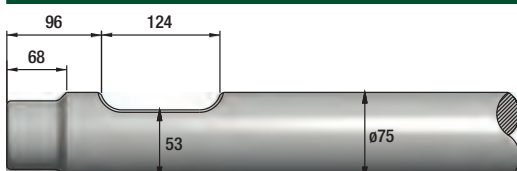
FIGURE 6



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	70	690	D623-0690P	19.9
Chisel	70	690	D623-0690C	19.9

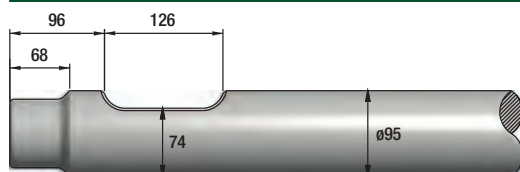
ARROWHEAD S60

FIGURE 7

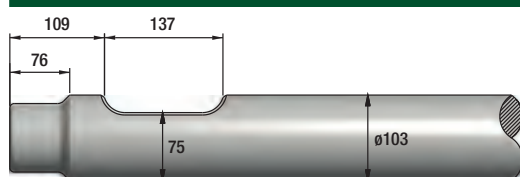


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	710	D624-0710P	23.5
Chisel	75	710	D624-0710C	23.5

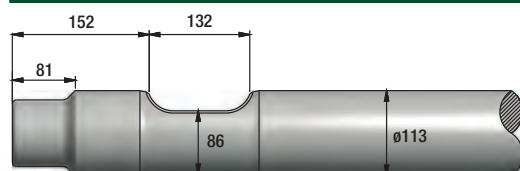
ARROWHEAD

FIGURE 8 ARROWHEAD S100 / 10T


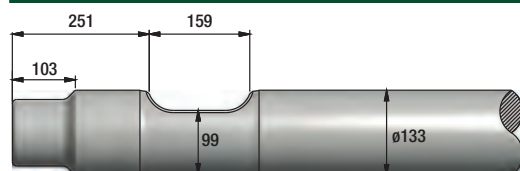
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	950	D618-0950P	50.5
Chisel	95	950	D618-0950C	50.5

FIGURE 9 ARROWHEAD S130


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	103	1000	D629-1000P	62.5
Chisel	103	1000	D629-1000C	62.5

FIGURE 10 ARROWHEAD S180


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	113	1000	D626-1000P	75.2
Chisel	113	1000	D626-1000C	75.2

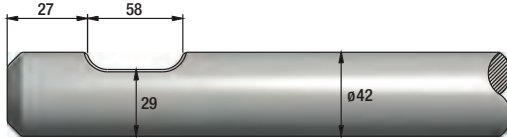
FIGURE 11 ARROWHEAD S230


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	133	1200	D627-1200P	125.0
Chisel	133	1200	D627-1200C	125.0

ATLAS COPCO PB110

FIGURE 12

ALLIED AS342 | BERCO BB42 | CHICAGO PNEUMATIC (CP) CP100 / RX2 | PROMOVE XP101 | SANDHURST SMC XT70

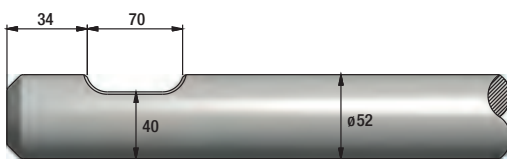


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	42	470	D062-0470P	4.9
Chisel	42	470	D062-0470C	4.9

ATLAS COPCO PB160

FIGURE 13

ALLIED AS352 | BERCO BB52 | CHICAGO PNEUMATIC (CP) CP150 / RX3 | SANDHURST SMC XT100

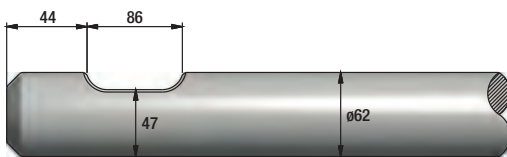


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	52	600	D063-0600P	9.6
Chisel	52	600	D063-0600C	9.6

ATLAS COPCO PB210

FIGURE 14

ALLIED AS362 | BERCO BB62 | CHICAGO PNEUMATIC (CP) CP200 / RX4 | SANDHURST SMC XT200

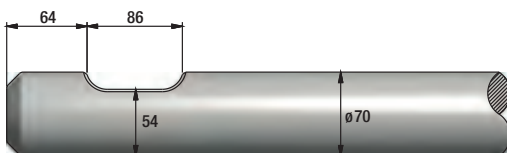


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	62	700	D064-0700P	15.8
Chisel	62	700	D064-0700C	15.8

ATLAS COPCO PB310

FIGURE 15

ALLIED AS370 | BERCO BB70 | CHICAGO PNEUMATIC (CP) CP300 / RX6 | SANDHURST SMC XT300

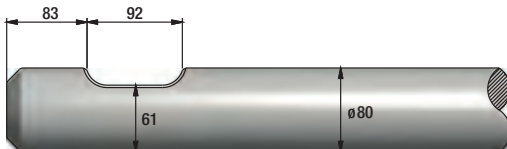


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	70	750	D065-0750P	21.6
Chisel	70	750	D065-0750C	21.6

ATLAS COPCO PB420

FIGURE 16

ALLIED AS380 | ATLAS COPCO 530 | BERCO BB80 | CHICAGO PNEUMATIC (CP) CP400 / CP550 / RX8 / RX11 | SANDHURST SMC XT400

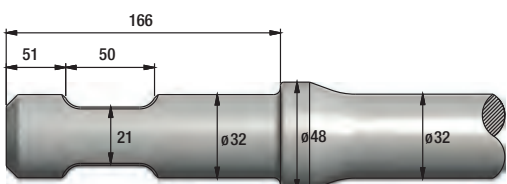


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	900	D061-0900P	33.9
Chisel	80	900	D061-0900C	33.9

ATLAS COPCO SB50

FIGURE 17

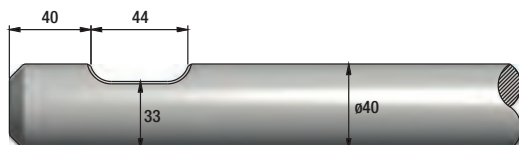
ATLAS COPCO SBC 60 | ATLAS COPCO TEX 30 | BROKK 40 | KUBOTA KM10



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	32	430	D233-0430P	2.6
Chisel	32	430	D233-0430C	2.6

FIGURE 18 ATLAS COPCO SB52

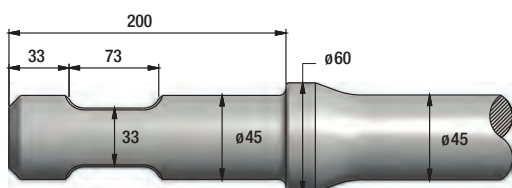
BROKK 50



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	420	D221-0420P	2.6
Chisel	40	420	D221-0420C	2.6

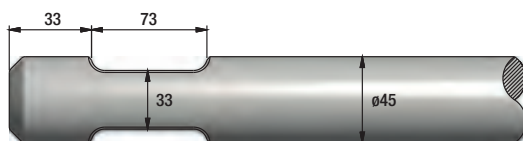
FIGURE 19 ATLAS COPCO SB100

ATLAS COPCO SB100 / SBC 115 | ATLAS COPCO TEX 100H / 75H | KUBOTA KM100



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	550	D222-0550P	6.6
Chisel	45	550	D222-0550C	6.6

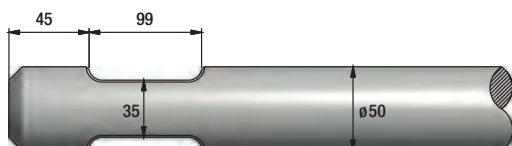
FIGURE 20 ATLAS COPCO SB102



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	550	D237-0550P	6.6
Chisel	45	550	D237-0550C	6.6

FIGURE 21 ATLAS COPCO SB150 / 152

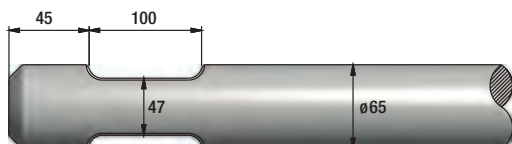
SBC 255 | ATLAS COPCO TEX 110H | BROKK 90 | JCB HM165 | KUBOTA KM150



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	550	D230-0550P	8.1
Chisel	50	550	D230-0550C	8.1

FIGURE 22 ATLAS COPCO SB200 / SB202

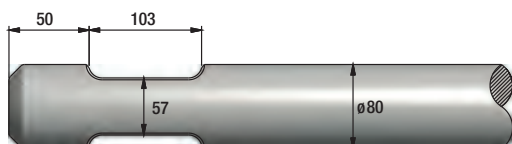
SBC 410 | ATLAS COPCO TEX 180H | BROKK 160 / 180 | JCB HM265 | KUBOTA KM200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	600	D229-0600P	14.9
Chisel	65	600	D229-0600C	14.9

FIGURE 23 ATLAS COPCO SB300 / SB302

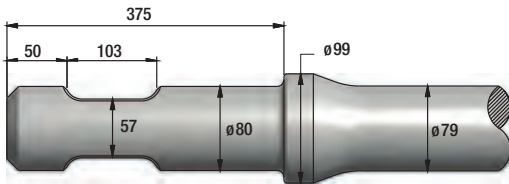
SBC 610 / SBC650 | BROKK 250 / 260 | JCB HM385 / 386Q | KUBOTA KM300



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	800	D232-0800P	30.1
Chisel	80	800	D232-0800C	30.1
Blunt	80	800	D232-0800B	30.1

ATLAS COPCO SB300 SCALER

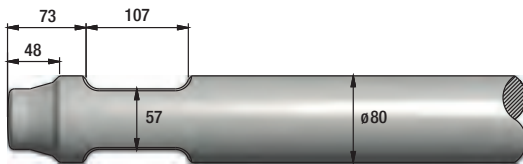
FIGURE 24



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Blunt	80	800	D235-0800B	32

ATLAS COPCO TEX 250H

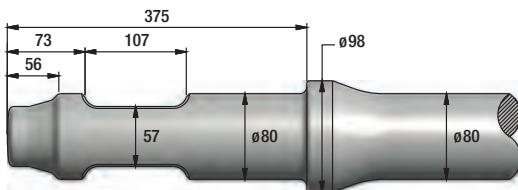
FIGURE 25



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	800	D224-0800P	30.1
Chisel	80	800	D224-0800C	30.1

ATLAS COPCO TEX 250H SCALER

FIGURE 26

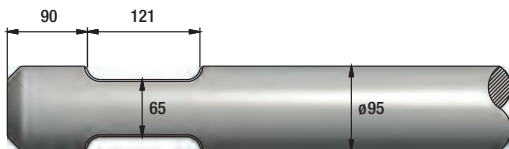


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Blunt	80	800	D224-0800B	32

ATLAS COPCO SB450 / SB452

FIGURE 27

ATLAS COPCO SBC 800 / 850 | ATLAS COPCO TEX 400H / HS | BROKK 330 | JCB HM495 | KUBOTA KM450

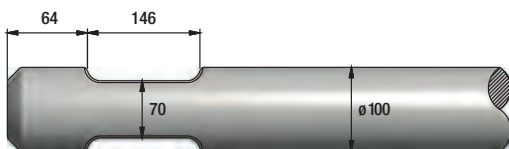


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	840	D231-0840P	44.6
Chisel	95	840	D231-0840C	44.6
Blunt	95	840	D231-0840B	44.6

ATLAS COPCO SB552

FIGURE 28

BROKK 400

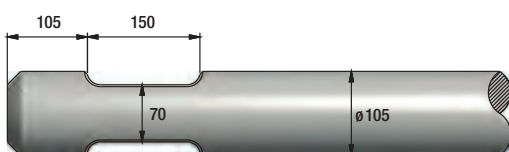


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	1000	D238-1000P	58.9
Chisel	100	1000	D238-1000C	58.9
Blunt	100	900	D238-0900B	53.0

ATLAS COPCO SB702 / HBC1100 / 1700

FIGURE 29

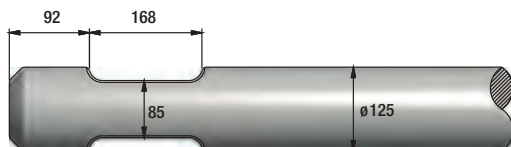
ATLAS COPCO TEX 600H / 700H / 900H



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	900	D226-0900P	58.4
Chisel	105	900	D226-0900C	58.4
Blunt	105	900	D226-0900B	58.4

FIGURE 30 ATLAS COPCO HBC2500

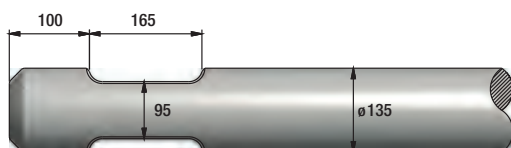
ATLAS COPCO TEX 1400H



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	125	1000	D227-1000P	92.0
Chisel	125	1000	D227-1000C	92.0
Blunt	125	1000	D227-1000B	92.0

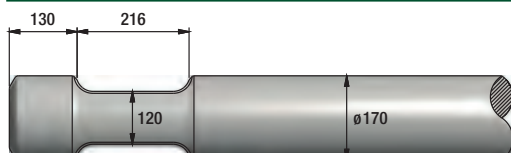
FIGURE 31 ATLAS COPCO HBC4000

ATLAS COPCO TEX 1800H / 2000H | CHICAGO PNEUMATIC (CP) CP2350



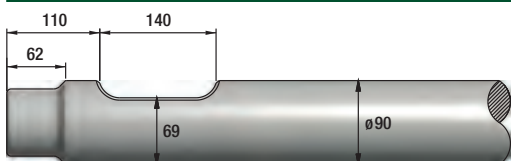
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1100	D228-1100P	118.0
Chisel	135	1100	D228-1100C	118.0

FIGURE 32 ATLAS COPCO HBC6000



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	170	1500	D234-1500P	255.2
Chisel	170	1500	D234-1500C	255.2
Blunt	170	1500	D234-1500B	255.2

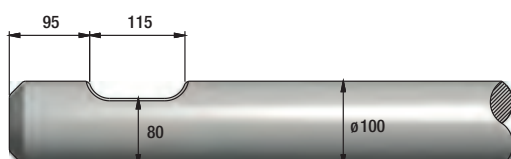
FIGURE 33 ATLAS COPCO MB500



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	900	D051-0900P	42.9
Chisel	90	900	D051-0900C	42.9

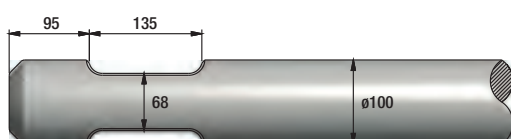
FIGURE 34 ATLAS COPCO MB700 / MB800

JCB HM860



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	1000	D058-1000P	58.9
Chisel	100	1000	D058-1000C	58.9
Blunt	100	1000	D058-1000B	58.9

FIGURE 35 ATLAS COPCO MB750



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	1000	D243-1000P	58.9
Chisel	100	1000	D243-1000C	58.9
Blunt	100	1000	D243-1000B	58.9

ATLAS COPCO MB1000

BROKK 800 | JCB HM3060

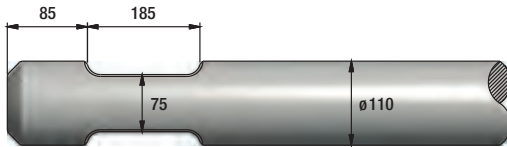


FIGURE 36

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	110	1050	D067-1050P	74.8
Chisel	110	1050	D067-1050C	74.8
Blunt	110	1050	D067-1050B	74.8

ATLAS COPCO MB1200

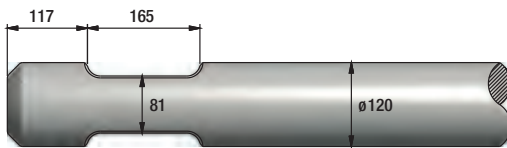


FIGURE 37

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1150	D059-1150P	97.5
Chisel	120	1150	D059-1150C	97.5
Blunt	120	1150	D059-1150B	97.5

ATLAS COPCO MB1500

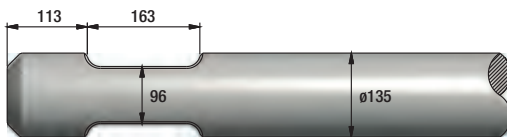


FIGURE 38

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1175	D242-1175P	126.1
Chisel	135	1175	D242-1175C	126.1
Blunt	135	1175	D242-1175B	126.1

ATLAS COPCO MB1600

JCB HM1560

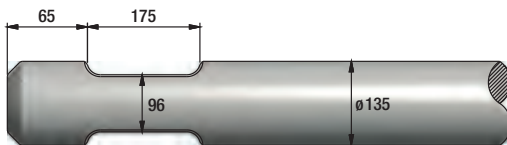


FIGURE 39

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1150	D046-1150P	123.4
Chisel	135	1150	D046-1150C	123.4
Blunt	135	1150	D046-1150B	123.4

ATLAS COPCO MB1700

JCB HM1760

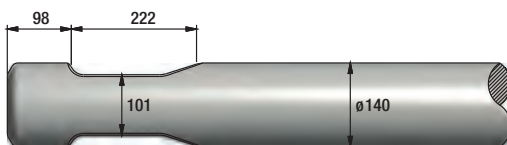


FIGURE 40

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D053-1200P	138.5
Chisel	140	1200	D053-1200C	138.5
Blunt	140	1200	D053-1200B	138.5

ATLAS COPCO HB2000

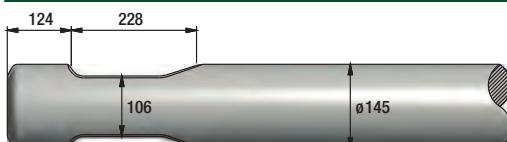
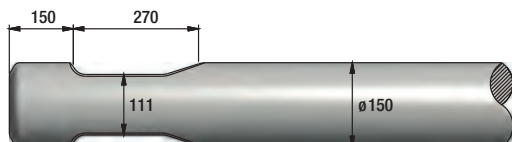


FIGURE 41

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	145	1250	D248-1250P	154.7
Chisel	145	1250	D248-1250C	154.7
Blunt	145	1100	D248-1100B	136.2

FIGURE 42 ATLAS COPCO HB2200

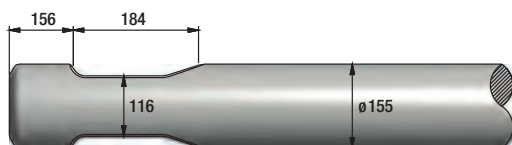
JCB HM2460



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1300	D055-1300P	172.2
Chisel	150	1300	D055-1300C	172.2
Blunt	150	1150	D055-1150B	152.3

FIGURE 43 ATLAS COPCO HB2500

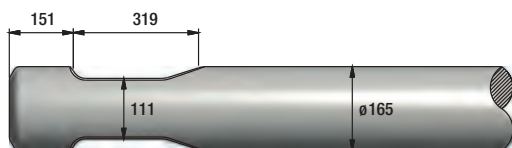
CHICAGO PNEUMATIC (CP) RX38



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	155	1150	D240-1150P	162.7
Point	155	1300	D240-1300P	183.9
Chisel	155	1150	D240-1150C	162.7
Chisel	155	1300	D240-1300C	183.9
Blunt	155	1150	D240-1150B	162.7

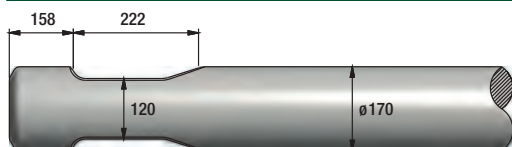
FIGURE 44 ATLAS COPCO HB3000 / HB3100

CHICAGO PNEUMATIC (CP) CP3050 / RX45 / RX46 | ALLIED HY-RAM 797 | (SEE ALSO KRUPP) HM2100 / 2300 / HB3000



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1300	D060-1300P	208.4
Point	165	1500	D060-1500P	240.4
Chisel	165	1300	D060-1300C	208.4
Chisel	165	1500	D060-1500C	240.4
Blunt	165	1300	D060-1300B	208.4

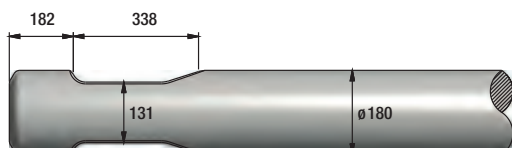
FIGURE 45 ATLAS COPCO HB3600



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	170	1300	D244-1300P	221.2
Point	170	1500	D244-1500P	255.2
Chisel	170	1300	D244-1300C	221.2
Chisel	170	1500	D244-1500C	255.2
Blunt	170	1300	D244-1300B	221.2

FIGURE 46 ATLAS COPCO HB4200

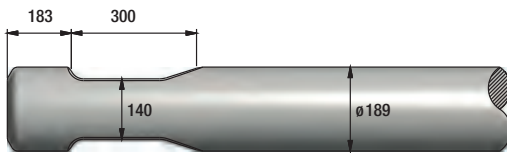
CHICAGO PNEUMATIC (CP) CP4250 / RX53 / RX54 | JCB HM4160



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	180	1500	D057-1500P	286.1
Chisel	180	1500	D057-1500C	286.1
Blunt	180	1350	D057-1350B	257.5

ATLAS COPCO HB4700

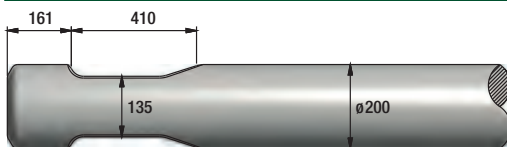
FIGURE 47



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	189	1400	D245-1400P	294.4
Point	189	1600	D245-1600P	336.5
Chisel	189	1400	D245-1400C	294.4
Chisel	189	1600	D245-1600C	336.5
Blunt	189	1400	D245-1400B	294.4

ATLAS COPCO HB5800

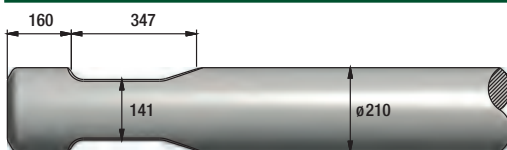
FIGURE 48



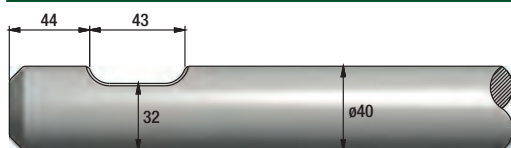
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	200	1500	D066-1500P	353.3
Point	200	1700	D066-1700P	400.4
Chisel	200	1500	D066-1500C	353.3
Chisel	200	1700	D066-1700C	400.4
Blunt	200	1500	D066-1500B	353.3

ATLAS COPCO HB7000

FIGURE 49



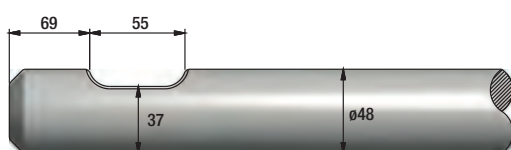
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	210	1800	D052-1800P	467.3
Chisel	210	1800	D052-1800C	467.3
Blunt	210	1600	D052-1600B	415.4

FIGURE 50 CATERPILLAR H35DS

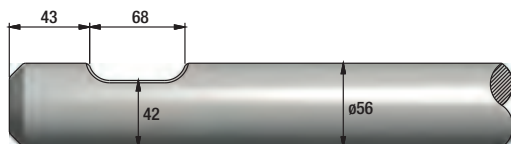
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	380	D900-0380P	3.6
Chisel	40	380	D900-0380C	3.6

FIGURE 51 CATERPILLAR H45DS

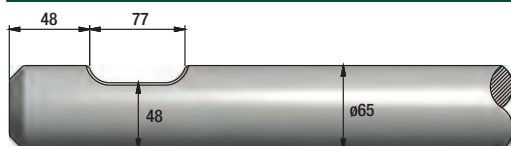
RAMMER / SANDVIK BR355



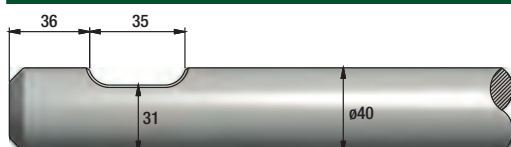
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	48	500	D901-0500P	6.8
Chisel	48	500	D901-0500C	6.8

FIGURE 52 CATERPILLAR H55DS

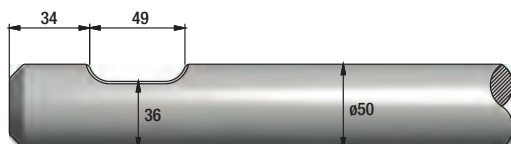
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	56	560	D902-0560P	10.3
Chisel	56	560	D902-0560C	10.3

FIGURE 53 CATERPILLAR H65DS

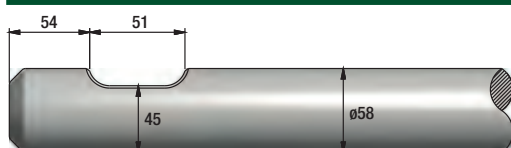
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	585	D903-0585P	14.6
Chisel	65	585	D903-0585C	14.6

FIGURE 54 CATERPILLAR H35ES

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	400	D916-0400P	3.8
Chisel	40	400	D916-0400C	3.8

FIGURE 55 CATERPILLAR H45ES

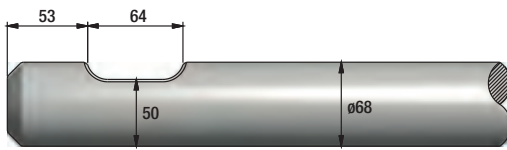
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	475	D917-0475P	7.0
Chisel	50	475	D917-0475C	7.0

FIGURE 56 CATERPILLAR H55ES

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	58	550	D918-0550P	10.9
Chisel	58	550	D918-0550C	10.9

CATERPILLAR H65ES

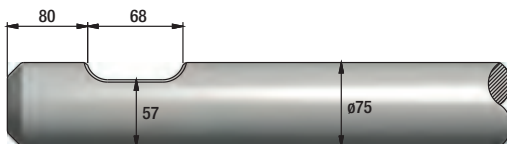
FIGURE 57



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	650	D919-0650P	17.7
Chisel	68	650	D919-0650C	17.7

CATERPILLAR H75ES

FIGURE 58



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	700	D904-0700P	22.9
Chisel	75	700	D904-0700C	22.9

CATERPILLAR H95ES

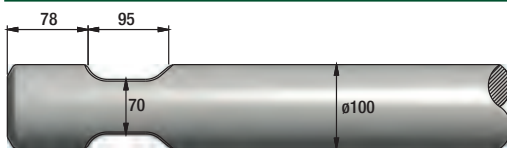
FIGURE 59



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	88	800	D905-0800P	36.1
Chisel	88	800	D905-0800C	36.1

CATERPILLAR H110ES

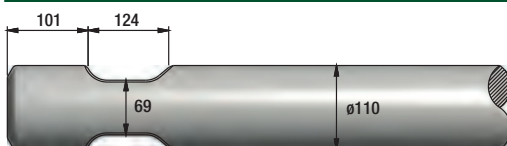
FIGURE 60



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	890	D906-0890P	51.9
Chisel	100	890	D906-0890C	51.9
Blunt	100	890	D906-0890B	51.9

CATERPILLAR H115ES

FIGURE 61



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	110	980	D907-0980P	69.2
Chisel	110	980	D907-0980C	69.2
Blunt	110	980	D907-0980B	69.2

CATERPILLAR H120ES

FIGURE 62



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1075	D908-1075P	90.4
Chisel	120	1075	D908-1075C	90.4
Blunt	120	1075	D908-1075B	90.4

CATERPILLAR H130ES

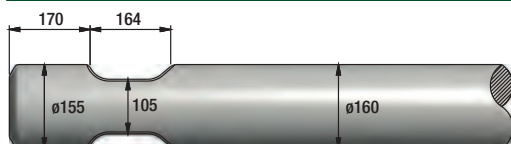
FIGURE 63



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1150	D909-1150P	114.4
Chisel	130	1150	D909-1150C	114.4
Blunt	130	1150	D909-1150B	114.4

FIGURE 64**CATERPILLAR H140ES**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D914-1200P	138.5
Chisel	140	1200	D914-1200C	138.5
Blunt	140	1200	D914-1200B	138.5

FIGURE 65**CATERPILLAR H160ES**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1400	D913-1400P	211.0
Chisel	160	1400	D913-1400C	211.0
Blunt	160	1400	D913-1400B	211.0

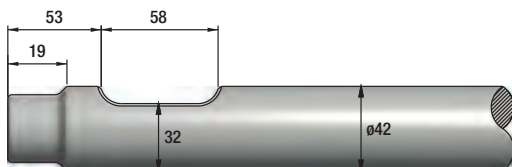
FIGURE 66**CATERPILLAR H180ES**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	180	1500	D915-1500P	286.1
Chisel	180	1500	D915-1500C	286.1
Blunt	180	1500	D915-1500B	286.1

EVERDIGM EHB008

FIGURE 67

PRODEM PRB008

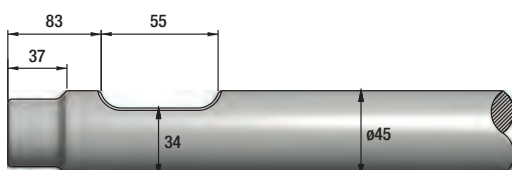


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	42	430	D935-0430P	4.5
Chisel	42	430	D935-0430C	4.5

EVERDIGM EHB01 / EHB02

FIGURE 68

PRODEM PRB010

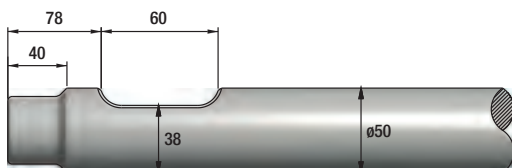


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	480	D936-0450P	5.7
Chisel	45	480	D936-0450C	5.7

EVERDIGM EHB03

FIGURE 69

PRODEM PRB030

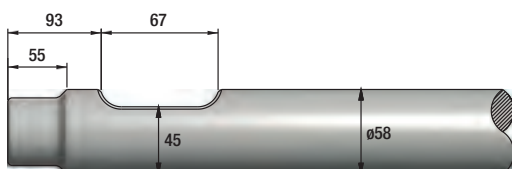


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	500	D923-0500P	7.4
Chisel	50	500	D923-0500C	7.4

EVERDIGM EHB04

FIGURE 70

PRODEM PRB040

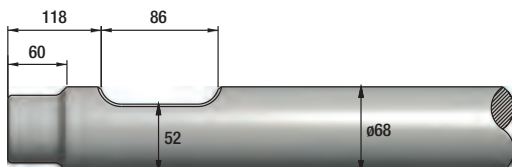


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	58	600	D924-0600P	11.9
Chisel	58	600	D924-0600C	11.9

EVERDIGM EHB05

FIGURE 71

PRODEM PRB050

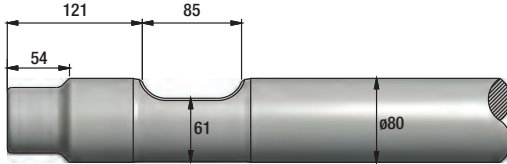


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	750	D925-0750P	20.4
Chisel	68	750	D925-0750C	20.4

FIGURE 72

EVERDIGM EHB06

PRODEM PRB060

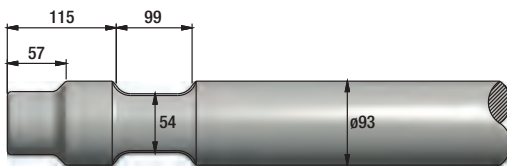


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	850	D937-0850P	32.0
Chisel	80	850	D937-0850C	32.0

FIGURE 73

EVERDIGM EHB10

PRODEM PRB100

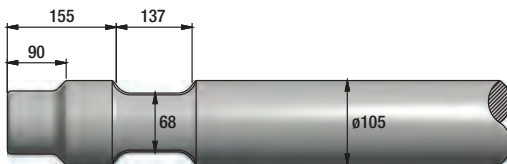


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	93	900	D926-0900P	45.8
Chisel	93	900	D926-0900C	45.8

FIGURE 74

EVERDIGM EHB13

PRODEM PRB130

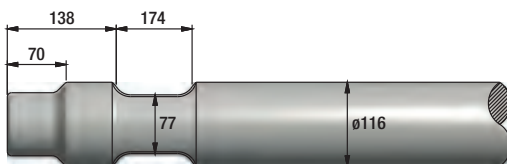


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	1050	D927-1050P	68.2
Chisel	105	1050	D927-1050C	68.2
Blunt	105	1050	D927-1050B	68.2

FIGURE 75

EVERDIGM EHB17

PRODEM PRB170

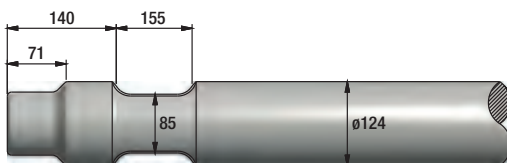


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	116	1100	D928-1100P	88.7
Chisel	116	1100	D928-1100C	88.7
Blunt	116	1100	D928-1100B	88.7

FIGURE 76

EVERDIGM EHB20

PRODEM PRB200

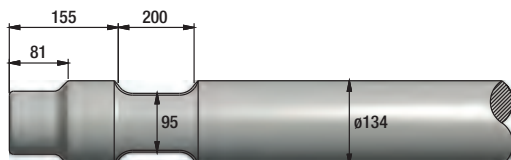


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	124	1150	D929-1150P	104.1
Chisel	124	1150	D929-1150C	104.1
Blunt	124	1150	D929-1150B	104.1

EVERDIGM EHB25

FIGURE 77

PRODEM PRB250

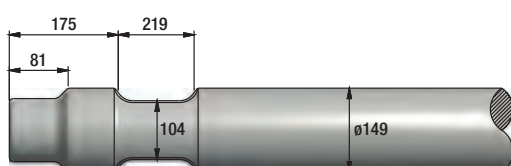


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	134	1200	D930-1200P	126.9
Chisel	134	1200	D930-1200C	126.9
Blunt	134	1200	D930-1200B	126.9

EVERDIGM EHB30

FIGURE 78

PRODEM PRB300

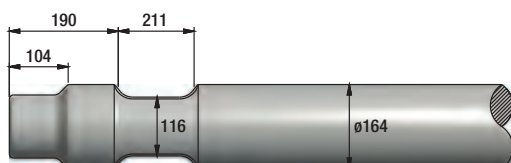


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	149	1300	D932-1300P	169.9
Chisel	149	1300	D932-1300C	169.9
Blunt	149	1300	D932-1300B	169.9

EVERDIGM EHB40

FIGURE 79

PRODEM PRB400

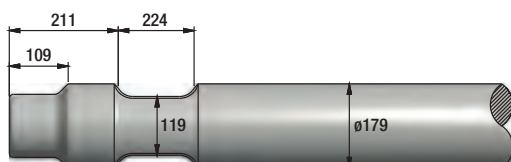


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	164	1450	D933-1450P	229.6
Chisel	164	1450	D933-1450C	229.6
Blunt	164	1450	D933-1450B	229.6

EVERDIGM EHB50

FIGURE 80

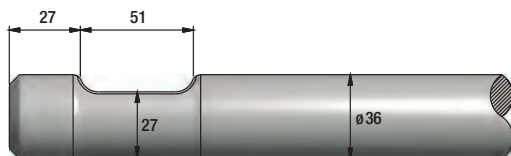
PRODEM PRB500



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	179	1600	D934-1600P	305.2
Chisel	179	1600	D934-1600C	305.2
Blunt	179	1600	D934-1600B	305.2

FIGURE 81 FURUKAWA F1 / HB1G / FX15

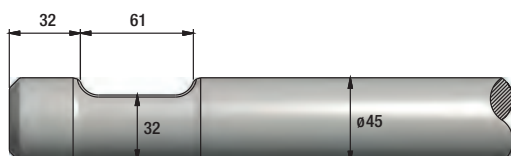
KENT KF1



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	36	400	D138-0400P	3.1
Chisel	36	400	D138-0400C	3.1

FIGURE 82 FURUKAWA F2 / HB2G / FX25

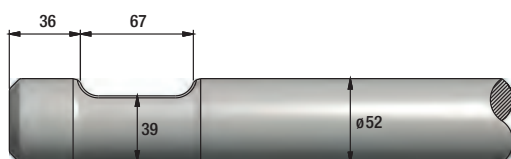
DAINONG (DNB) DNB K20 | KENT KF2



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	450	D139-0450P	5.4
Chisel	45	450	D139-0450C	5.4

FIGURE 83 FURUKAWA F3 / FX35

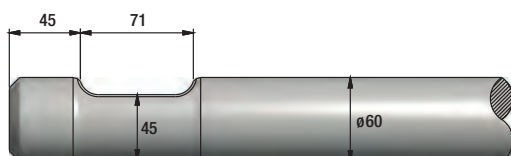
KENT KF3



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	52	525	D140-0525P	8.4
Chisel	52	525	D140-0525C	8.4

FIGURE 84 FURUKAWA F4 / FX45

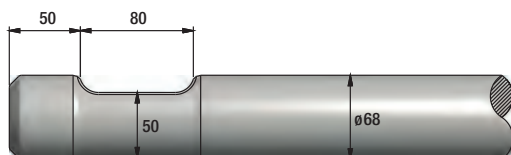
KENT KF4



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	60	560	D160-0560P	11.9
Chisel	60	560	D160-0560C	11.9

FIGURE 85 FURUKAWA F5 / FX55

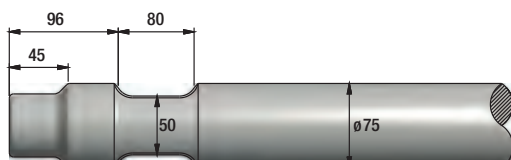
DEMOTER (VISTIRINI) DM240RE | KENT KF5



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	600	D161-0600P	16.3
Chisel	68	600	D161-0600C	16.3

FIGURE 86 FURUKAWA F6

KENT KF6

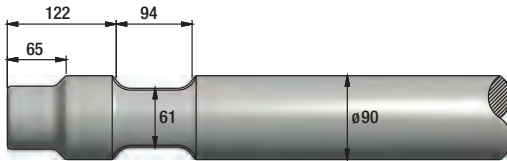


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	730	D162-0730P	24.2
Chisel	75	730	D162-0730C	24.2

FURUKAWA F9

FIGURE 87

KENT KF9

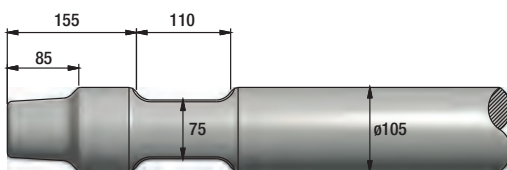


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	850	D163-0850P	40.5
Chisel	90	850	D163-0850C	40.5

FURUKAWA F12

FIGURE 88

KENT KF12

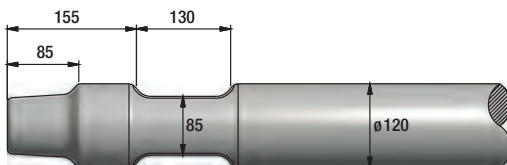


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	1100	D164-1100P	71.4
Chisel	105	1100	D164-1100C	71.4
Blunt	105	1100	D164-1100B	71.4

FURUKAWA F19

FIGURE 89

KENT KF19

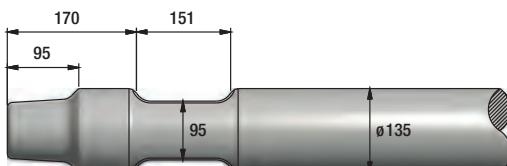


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1200	D165-1200P	101.7
Chisel	120	1200	D165-1200C	101.7
Blunt	120	1200	D165-1200B	101.7

FURUKAWA F22

FIGURE 90

FURUKAWA F20 | KENT KF22

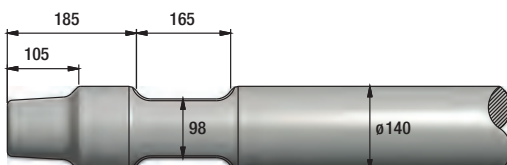


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1250	D166-1250P	134.1
Chisel	135	1250	D166-1250C	134.1
Blunt	135	1250	D166-1250B	134.1

FURUKAWA F27

FIGURE 91

KENT KF27

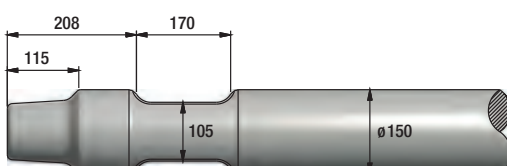


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1300	D167-1300P	150.0
Chisel	140	1300	D167-1300C	150.0
Blunt	140	1300	D167-1300B	150.0

FURUKAWA F35

FIGURE 92

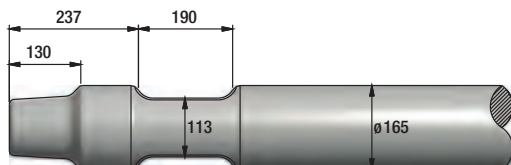
FURUKAWA F30 | KENT KF35



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1400	D168-1400P	185.5
Chisel	150	1400	D168-1400C	185.5
Blunt	150	1400	D168-1400B	185.5

FIGURE 93 FURUKAWA F45

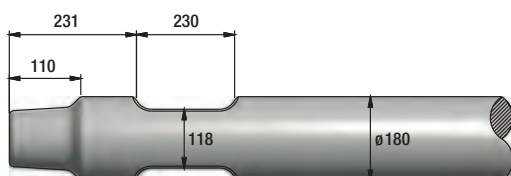
KENT KF45



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1500	D169-1500P	240.4
Chisel	165	1500	D169-1500C	240.4
Blunt	165	1500	D169-1500B	240.4

FIGURE 94 FURUKAWA F70

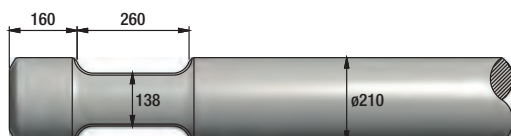
FURUKAWA HB100G | KENT KF70



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	180	1600	D670-1600P	305.2
Chisel	180	1600	D670-1600C	305.2
Blunt	180	1600	D670-1600B	305.2

FIGURE 95 FURUKAWA F100

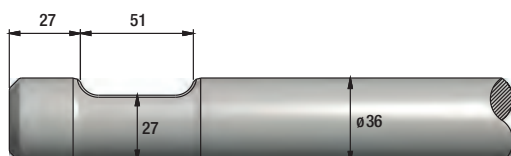
KENT KF100



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	210	1900	D671-1900P	493.3
Chisel	210	1900	D671-1900C	493.3
Blunt	210	1900	D671-1700B	493.3

FIGURE 96 FURUKAWA HB1G / F1 / FX15

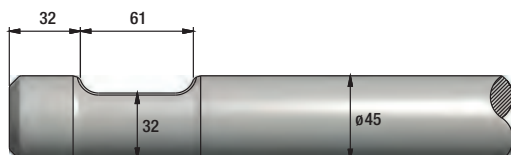
KENT KHB1G



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	36	400	D138-0400P	3.1
Chisel	36	400	D138-0400C	3.1

FIGURE 97 FURUKAWA HB2G / F2 / FX25

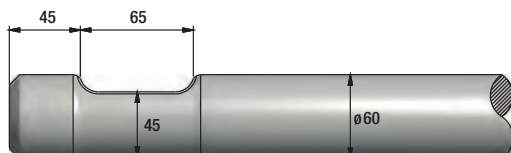
KENT KHB2G



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	450	D139-0400P	5.4
Chisel	45	450	D139-0400C	5.4

FIGURE 98 FURUKAWA HB3G

DAINONG (DNB) DNB K25 | DEMOTER (VISTIRINI) DM160RE | KENT KHB3G

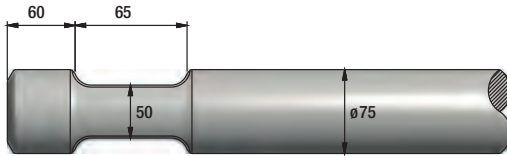


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	60	560	D142-0560P	11.9
Chisel	60	560	D142-0560C	11.9

FURUKAWA HB5G

FIGURE 99

DAINONG (DNB) DNB K30 | KENT KHB5G

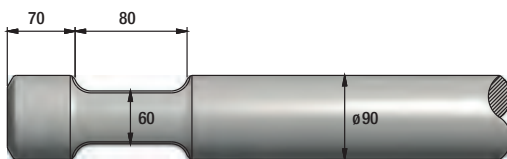


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	640	D144-0640P	21.2
Chisel	75	640	D144-0640C	21.2

FURUKAWA HB8G

FIGURE 100

KENT KHB8G

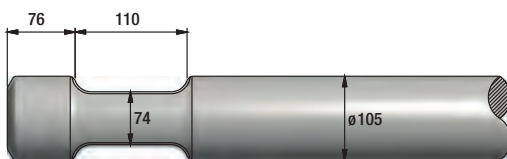


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	750	D146-0750P	35.8
Chisel	90	750	D146-0750C	35.8

FURUKAWA HB10G

FIGURE 101

DAINONG (DNB) DNB K50 | KENT KHB10G

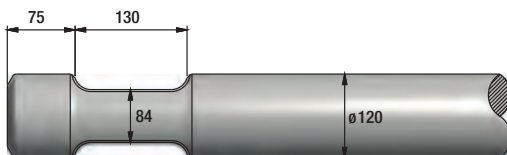


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	1000	D148-1000P	64.9
Chisel	105	1000	D148-1000C	64.9

FURUKAWA HB15G

FIGURE 102

DEHACO DHB1500S / DHB120 | KENT KHB15G

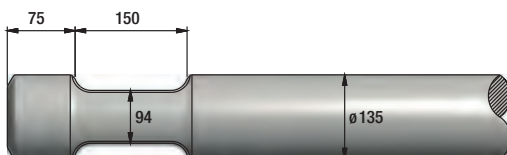


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1100	D149-1100P	93.3
Chisel	120	1100	D149-1100C	93.3

FURUKAWA HB20G

FIGURE 103

DAINONG (DNB) DNB K80 / 100 | DEHACO DHB2000S | KENT KHB20G

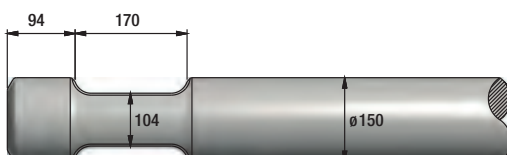


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1200	D151-1200P	128.8
Chisel	135	1200	D151-1200C	128.8

FURUKAWA HB30G

FIGURE 104

DAINONG (DNB) DNB K120 | DEHACO DHB3600S | KENT KHB30G

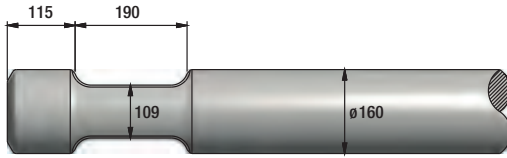


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1300	D154-1300P	172.2
Chisel	150	1300	D154-1300C	172.2

FIGURE 105

FURUKAWA HB40G

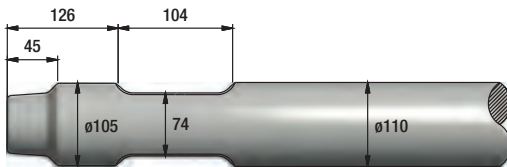
KENT KHB40G



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1400	D155-1400P	211.0
Chisel	160	1400	D155-1400C	211.0

FIGURE 106

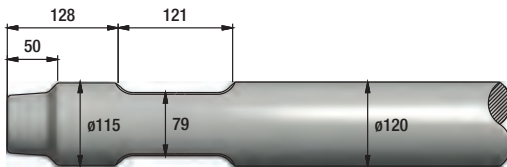
FURUKAWA FXJ 125



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	110	1070	D687-1070P	76.2
Chisel	110	1070	D687-1070C	76.2
Blunt	110	1070	D687-1070B	76.2

FIGURE 107

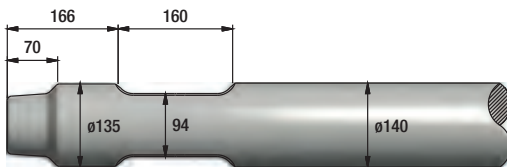
FURUKAWA FXJ 175



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1100	D668-1100P	93.3
Chisel	120	1100	D668-1100C	93.3
Blunt	120	1100	D668-1100B	93.3

FIGURE 108

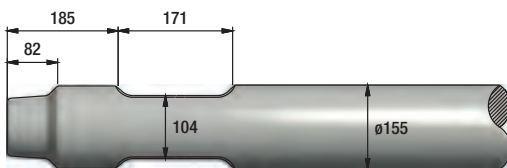
FURUKAWA FXJ 275



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1300	D689-1300P	150.0
Chisel	140	1300	D689-1300C	150.0
Blunt	140	1300	D689-1300B	150.0

FIGURE 109

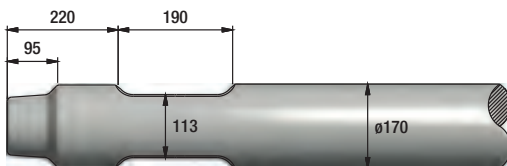
FURUKAWA FXJ 375



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	155	1400	D690-1400P	198.0
Chisel	155	1400	D690-1400C	198.0
Blunt	155	1400	D690-1400B	198.0

FIGURE 110

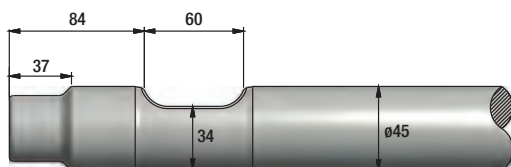
FURUKAWA FXJ 475



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	170	1500	D691-1500P	255.2
Chisel	170	1500	D691-1500C	255.2
Blunt	170	1500	D691-1500B	255.2

HANWOO RHB 301-V**FIGURE 111**

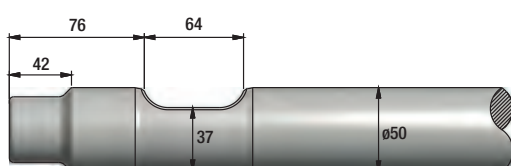
HANWOO 302-V | RHINO / MAGNUM RHB 301-V



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	480	D550-0480P	5.7
Chisel	45	480	D550-0480C	5.7

HANWOO RHB 302 / 303-V**FIGURE 112**

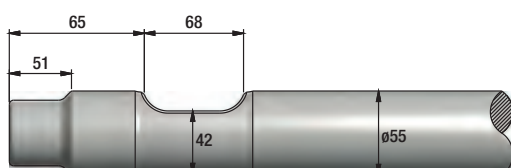
HANWOO / RHINO / MAGNUM RHB 302 / 303-V



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	490	D551-0490P	7.2
Chisel	50	490	D551-0490C	7.2

HANWOO RHB 303**FIGURE 113**

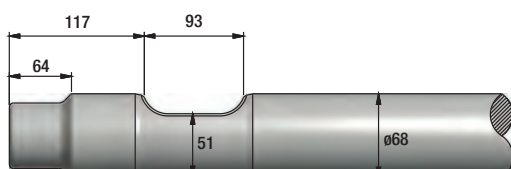
HANWOO / RHINO / MAGNUM RHB 303 / 303-VP



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	55	500	D552-0500P	8.9
Chisel	55	500	D552-0500C	8.9

HANWOO RHB 305-V**FIGURE 114**

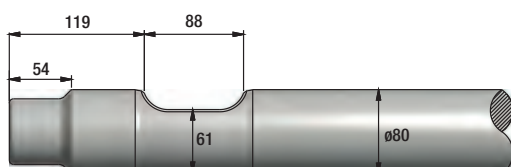
HANWOO / RHINO / MAGNUM RHB 305 / 305-V



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	760	D553-0760P	20.7
Chisel	68	760	D553-0760C	20.7

HANWOO RHB 306**FIGURE 115**

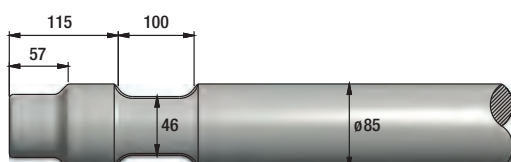
HANWOO / RHINO / MAGNUM RHB 306



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	850	D562-0850P	32.0
Chisel	80	850	D562-0850C	32.0

HANWOO RHB 308**FIGURE 116**

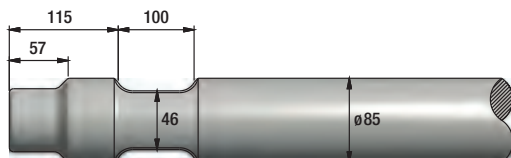
HANWOO / RHINO / MAGNUM RHB 308



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	900	D554-0900P	38.3
Chisel	85	900	D554-0900C	38.3

FIGURE 117 HANWOO RHB 309

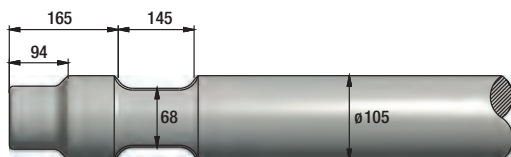
HANWOO / RHINO / MAGNUM RHB 308-2 / 309



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	900	D564-0900P	38.3
Chisel	85	900	D564-0900C	38.3

FIGURE 118 HANWOO RHB 313-V

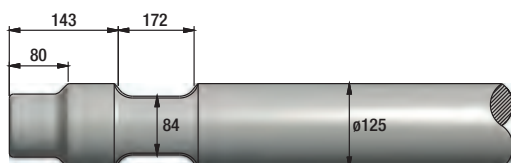
HANWOO / RHINO / MAGNUM RHB 313-V / 314



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	1050	D555-1050P	68.2
Chisel	105	1050	D555-1050C	68.2

FIGURE 119 HANWOO RHB 320

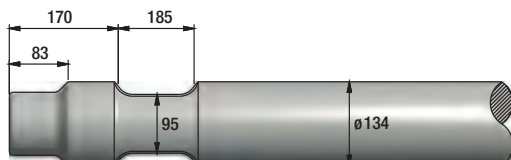
HANWOO / RHINO / MAGNUM RHB 320



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	125	1150	D560-1150P	105.8
Chisel	125	1150	D560-1150C	105.8
Blunt	125	1050	D560-1050B	96.6

FIGURE 120 HANWOO RHB 322-2 / 325

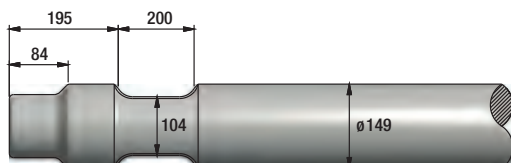
HANWOO / RHINO / MAGNUM RHB 322-2 / 323 / 325



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	134	1200	D556-1200P	128.8
Chisel	134	1200	D556-1200C	128.8
Blunt	134	1050	D556-1050B	112.7

FIGURE 121 HANWOO RHB 328-2 / 330

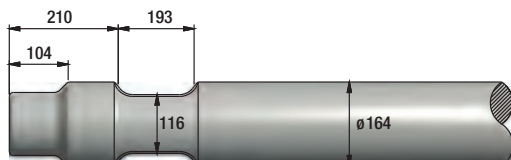
HANWOO / RHINO / MAGNUM RHB 328-2 / 330



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	149	1450	D557-1450P	192.1
Chisel	149	1450	D557-1450C	192.1
Blunt	149	1300	D557-1300B	172.2

FIGURE 122 HANWOO RHB 340

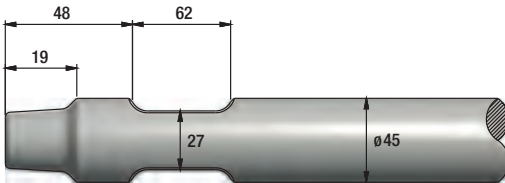
HANWOO / RHINO / MAGNUM RHB 340



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	164	1450	D559-1450P	232.4
Chisel	164	1450	D559-1450C	232.4
Blunt	164	1300	D559-1300B	208.4

INDECO HP150**FIGURE 123**

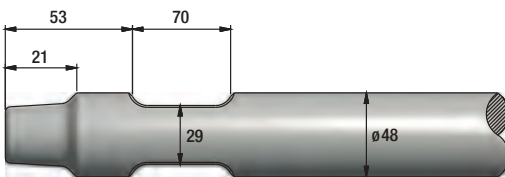
EURORAM / GLOBORAM / ROCKMASTER RM45 | INDECO MES / UP 121 / 150P



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	440	D186-0440P	5.2
Chisel	45	440	D186-0440C	5.2

INDECO HP200**FIGURE 124**

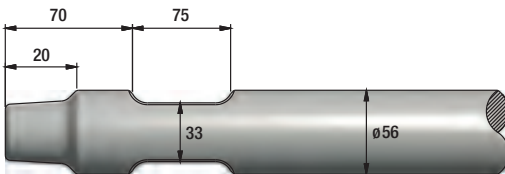
EURORAM / GLOBORAM / ROCKMASTER RM48 | INDECO MES / UP 180 / 181 / 200P



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	48	550	D171-0550P	7.2
Chisel	48	550	D171-0550C	7.2

INDECO HP350**FIGURE 125**

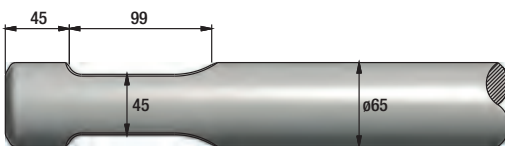
EURORAM / GLOBORAM / ROCKMASTER RM56 | INDECO MES / UP 300 / 301 / 350P / 351P / HP300



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	56	600	D173-0600P	10.7
Chisel	56	600	D173-0600C	10.7

INDECO HP500**FIGURE 126**

EURORAM / GLOBORAM / ROCKMASTER RM65 | INDECO HB5 | INDECO MES / UP 451 / 452 / 462P / 521 / 550



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	650	D174-0650P	15.7
Chisel	65	650	D174-0650C	15.7

INDECO HP600**FIGURE 127**

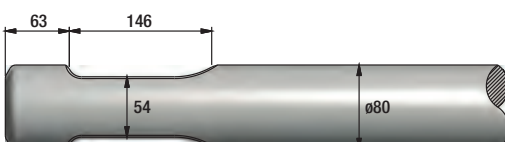
EURORAM / GLOBORAM / ROCKMASTER RM75 | INDECO MES / UP 553P



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	73	680	D190-0680P	21.3
Chisel	73	680	D190-0680C	21.3

INDECO HB8**FIGURE 128**

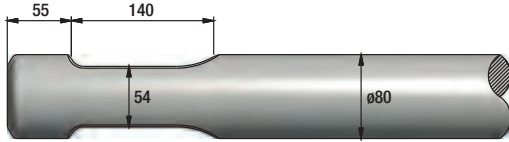
EURORAM / GLOBORAM / ROCKMASTER RM80



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	700	D175-0700P	25.7
Chisel	80	700	D175-0700C	25.7

FIGURE 129 INDECO HP700

INDECO MES / UP 601 / 621 / 650P



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	650	D177-0650P	23.9
Chisel	80	650	D177-0650C	23.9

FIGURE 130 INDECO HP900

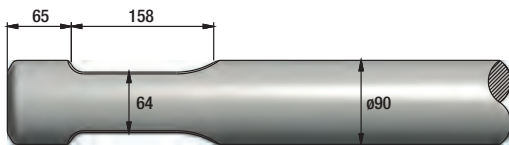
EURORAM / GLOBORAM / ROCKMASTER RM88 | INDECO UP 900



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	89	700	D192-0700P	32.6
Chisel	89	700	D192-0700C	32.6

FIGURE 131 INDECO HP1200

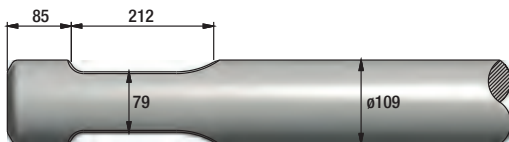
EURORAM / GLOBORAM / ROCKMASTER RM85 / 90 | INDECO HB12 | INDECO MES / UP 1200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	800	D176-0800P	38.2
Chisel	90	800	D176-0800C	38.2

FIGURE 132 INDECO HP1500

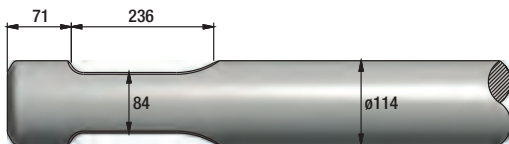
EURORAM / GLOBORAM / ROCKMASTER RM110 | INDECO HB19 | INDECO MES / UP 1500



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	109	900	D178-0900P	63.0
Chisel	109	900	D178-0900C	63.0
Blunt	109	800	D178-0800B	56.0

FIGURE 133 INDECO HP1800

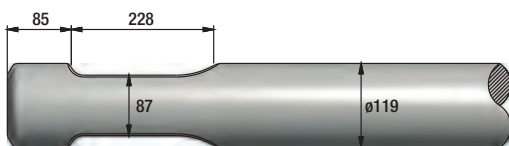
EURORAM / GLOBORAM / ROCKMASTER RM115 | INDECO MES / UP 1750 / 1800 | OMAL 1300



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	114	1000	D008-1000P	76.5
Chisel	114	1000	D008-1000C	76.5
Blunt	114	900	D008-0900B	68.9

FIGURE 134 INDECO HP2000

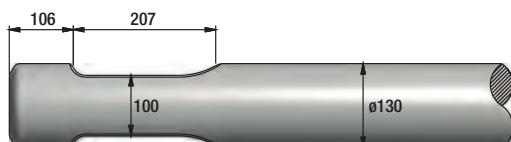
EURORAM / GLOBORAM / ROCKMASTER RM120 | INDECO HB27 | INDECO MES / UP 2000



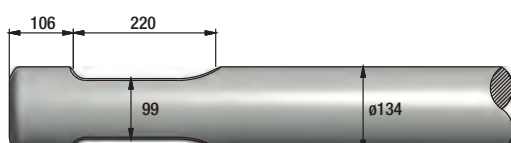
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	119	1000	D181-1000P	83.4
Chisel	119	1000	D181-1000C	83.4
Blunt	119	900	D181-0900B	75.0

INDECO HP2500**FIGURE 135**

INDECO UP2500 / MES 2500 / EURORAM RM130



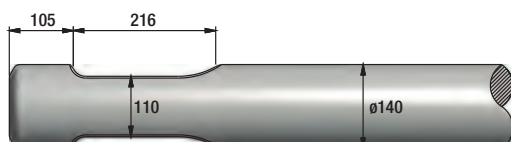
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1050	D180-1050P	104.5
Chisel	130	1050	D180-1050C	104.5
Blunt	130	950	D180-0950B	94.5

INDECO HP2750**FIGURE 136**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	134	1100	D194-1100P	116.3
Chisel	134	1100	D194-1100C	116.3
Blunt	134	1000	D194-1000B	105.7

INDECO HP3000**FIGURE 137**

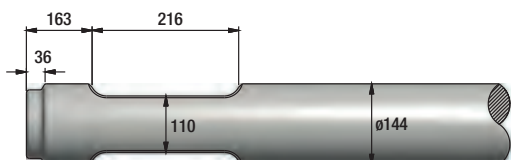
EURORAM / GLOBORAM / ROCKMASTER RM140 | INDECO MES / UP 3000



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1100	D185-1100P	126.9
Chisel	140	1100	D185-1100C	126.9
Blunt	140	1000	D185-1000B	115.4

INDECO HP3500**FIGURE 138**

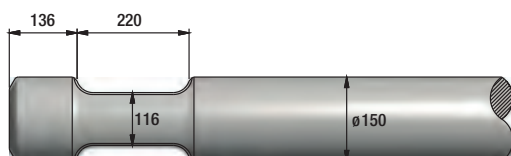
EURORAM / GLOBORAM / ROCKMASTER RM145 | INDECO MES / UP 3500



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	144	1170	D182-1170P	142.8
Chisel	144	1170	D182-1170C	142.8
Blunt	144	1070	D182-1070B	130.6

INDECO HP4000**FIGURE 139**

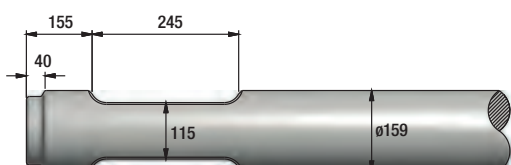
EURORAM / GLOBORAM / ROCKMASTER RM150 | INDECO MES / UP 4000 / 4001



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1250	D191-1250P	165.6
Chisel	150	1250	D191-1250C	165.6
Blunt	150	1150	D191-1150B	152.3

INDECO HP5000**FIGURE 140**

EURORAM / GLOBORAM / ROCKMASTER RM160 | INDECO MES / UP 5000

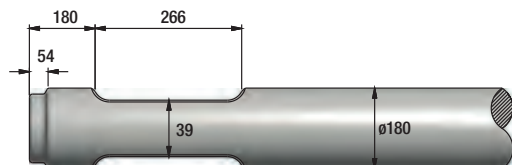


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	159	1320	D183-1320P	196.5
Chisel	159	1320	D183-1320C	196.5
Blunt	159	1170	D183-1170B	174.1

FIGURE 141

INDECO HP7000

EURORAM / GLOBORAM / ROCKMASTER RM180 | INDECO MES / UP 7000

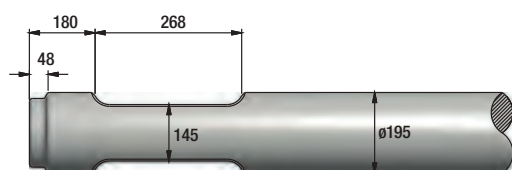


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	180	1450	D187-1450P	276.6
Chisel	180	1450	D187-1450C	276.6
Blunt	180	1300	D187-1300B	248.0

FIGURE 142

INDECO HP9000

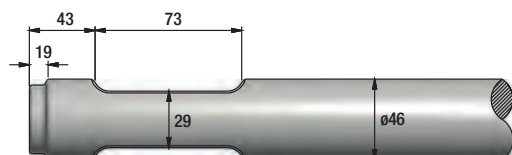
EURORAM / GLOBORAM / ROCKMASTER RM195 | INDECO MES / UP 8500



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	195	1530	D188-1530P	342.5
Chisel	195	1530	D188-1530C	342.5
Blunt	195	1380	D188-1380B	308.9

ITALDEM GK 85 / 86**FIGURE 143**

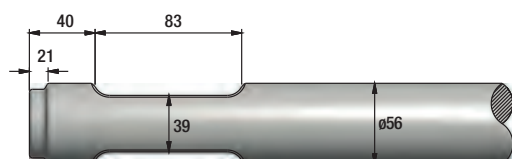
STAR SH91



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	46	450	D400-0450P	5.6
Chisel	46	450	D400-0450C	5.6

ITALDEM GK 160 / 161**FIGURE 144**

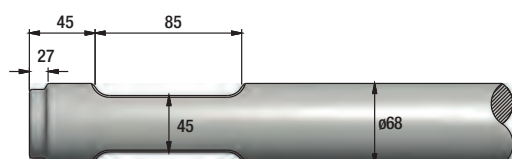
STAR SH151 / 161



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	56	500	D401-0500P	9.2
Chisel	56	500	D401-0500C	9.2

ITALDEM GK 211**FIGURE 145**

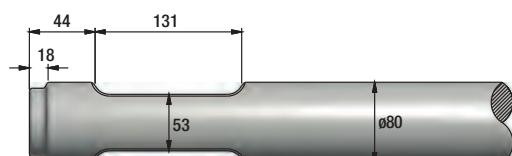
STAR SH200



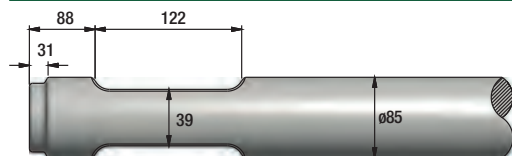
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	620	D411-0620P	16.4
Chisel	68	620	D411-0620C	16.4

ITALDEM GK 290 / 291**FIGURE 146**

STAR SH281



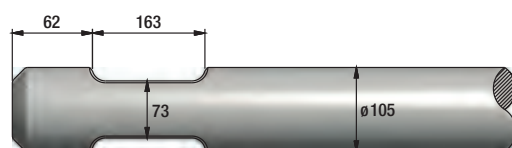
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	660	D403-0660P	24.9
Chisel	80	660	D403-0660C	24.9

ITALDEM GK 360 / 361**FIGURE 147**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	700	D404-0700P	29.8
Chisel	85	700	D404-0700C	29.8

ITALDEM GK 600 / 610**FIGURE 148**

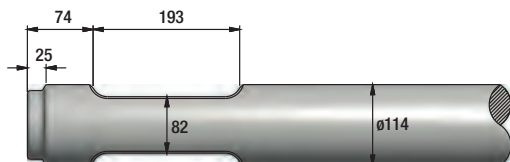
ITALDEM GK 620 | STAR SH561 / 562



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	900	D405-0900P	58.4
Chisel	105	900	D405-0900C	58.4

FIGURE 149 ITALDEM GK 950 / 960

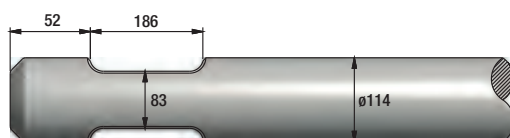
STAR SH991



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	114	1050	D406-1050P	81.8
Chisel	114	1050	D406-1050C	81.8
Blunt	114	950	D406-0950B	74.0

FIGURE 150 ITALDEM GK 1050

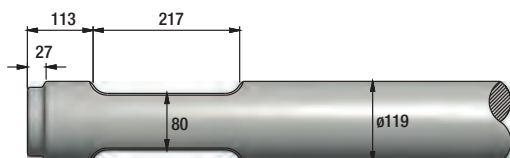
STAR SH992



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	114	1050	D415-1050P	80.3
Chisel	114	1050	D415-1050C	80.3
Blunt	114	950	D415-0950B	72.7

FIGURE 151 ITALDEM GK 1350

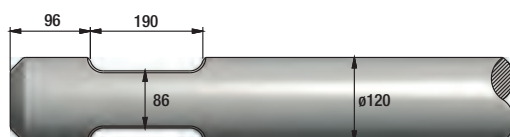
ITALDEM GK 1351 | STAR SH1401



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	119	1100	D407-1100P	93.3
Chisel	119	1100	D407-1100C	93.3
Blunt	119	1000	D407-1000B	84.8

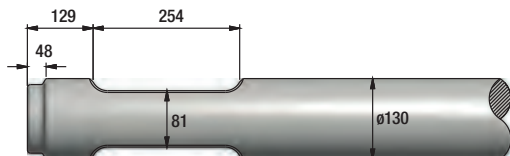
FIGURE 152 ITALDEM GK 1351S

STAR SH1402



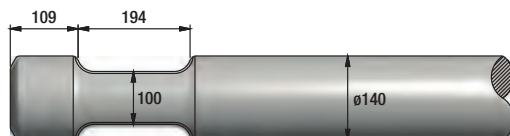
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1150	D412-1150P	97.5
Chisel	120	1150	D412-1150C	97.5
Blunt	120	1050	D412-1050B	89.0

FIGURE 153 ITALDEM GK 1600

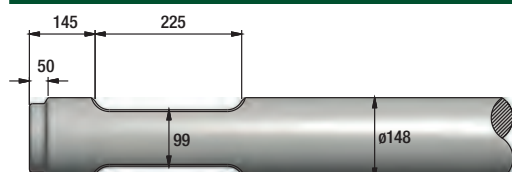


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1200	D408-1200P	119.4
Chisel	130	1200	D408-1200C	119.4
Blunt	130	1100	D408-1100B	109.4

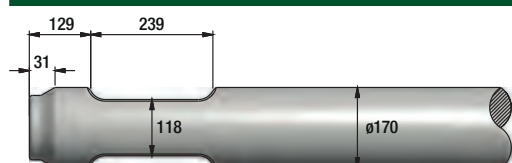
FIGURE 154 ITALDEM GK 1800



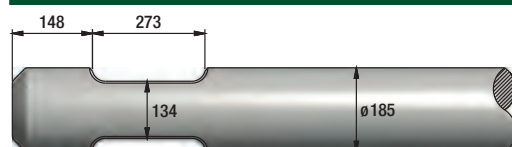
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1250	D414-1250P	154.7
Chisel	140	1250	D414-1250C	154.7
Blunt	140	1150	D414-1150B	142.4

ITALDEM GK 2400**FIGURE 155**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	148	1350	D409-1350P	174.1
Chisel	148	1350	D409-1350C	174.1
Blunt	148	1200	D409-1200B	154.8

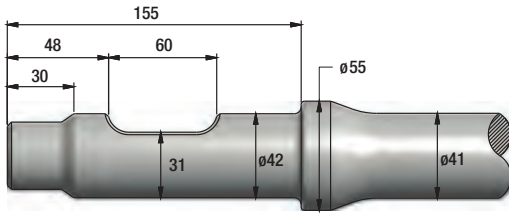
ITALDEM GK 3400 / 3500**FIGURE 156**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	170	1450	D410-1450P	246.7
Chisel	170	1450	D410-1450C	246.7
Blunt	170	1300	D410-1300B	221.2

ITALDEM GK 3800**FIGURE 157**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	185	1350	D413-1350P	272.0
Chisel	185	1350	D413-1350C	272.0
Blunt	185	1300	D413-1250B	261.9

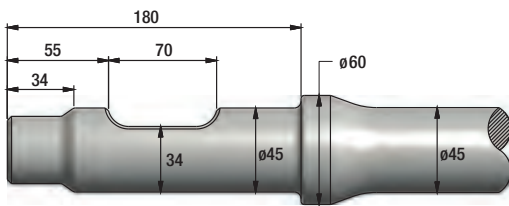
FIGURE 158 KRUPP HM45



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	42	470	D030-0470P	4.9
Chisel	42	470	D030-0470C	4.9

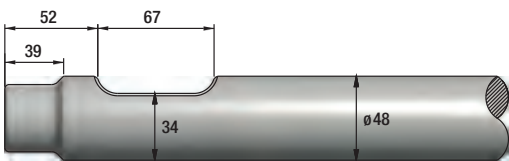
FIGURE 159 KRUPP HM50 / 55

ALLIED HY-RAM 700 I (SEE ALSO ATLAS COPCO)



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	580	D031-0580P	6.9
Chisel	45	580	D031-0580C	6.9

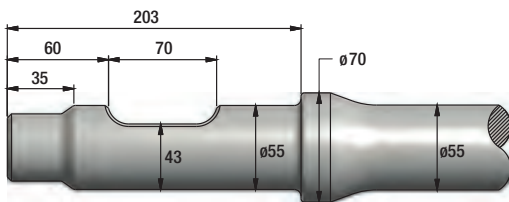
FIGURE 160 KRUPP HM60V



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	48	500	D054-0500P	6.8
Chisel	48	500	D054-0500C	6.8

FIGURE 161 KRUPP HM60 / 75

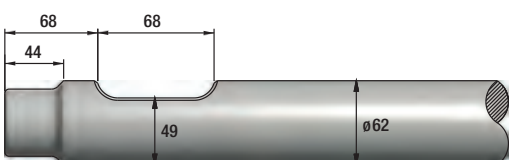
ALLIED HY-RAM 710 / 711



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	55	600	D032-0600P	10.7
Chisel	55	600	D032-0600C	10.7

FIGURE 162 KRUPP HM85 / 90 / 90V

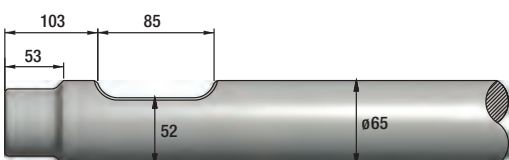
ALLIED HY-RAM 711B



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	62	600	D033-0600P	13.6
Chisel	62	600	D033-0600C	13.6

FIGURE 163 KRUPP HM130 / 140V

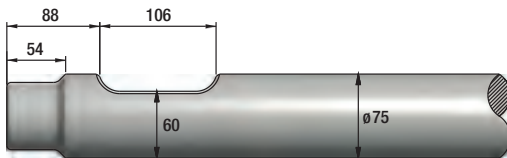
ALLIED HY-RAM 715



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	780	D035-0780P	19.4
Chisel	65	780	D035-0780C	19.4

KRUPP HM185/190V**FIGURE 164**

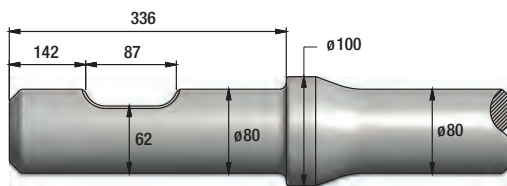
ALLIED HY-RAM 725



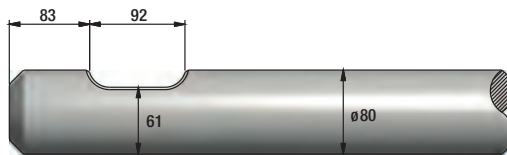
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	800	D036-0800P	26.5
Chisel	75	800	D036-0800C	26.5

KRUPP HM200**FIGURE 165**

ALLIED HY-RAM 77



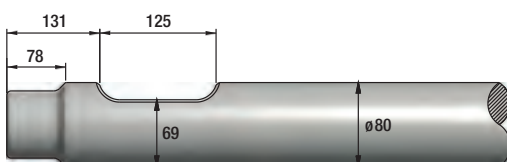
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	835	D037-0835P	31.5
Chisel	80	835	D037-0835C	31.5

KRUPP HM220 / 230**FIGURE 166**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	900	D061-0900P	33.9
Chisel	80	900	D061-0900C	33.9

KRUPP HM300 / 301 / 305**FIGURE 167**

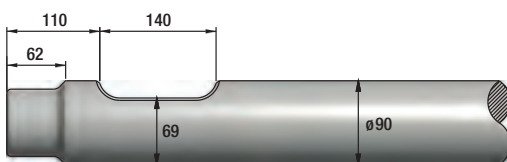
ALLIED HY-RAM 730 | DEMOTER (VISTIRINI) S430



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	900	D038-0900P	33.9
Chisel	80	900	D038-0900C	33.9

KRUPP HM350 / 350V**FIGURE 168**

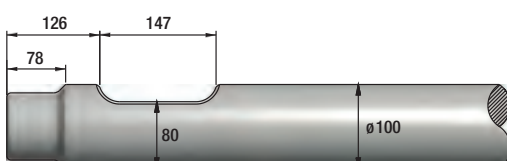
ALLIED HY-RAM 735 | ATLAS COPCO MB500



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	900	D051-0900P	42.9
Chisel	90	900	D051-0900C	42.9

KRUPP HM550 / 560V**FIGURE 169**

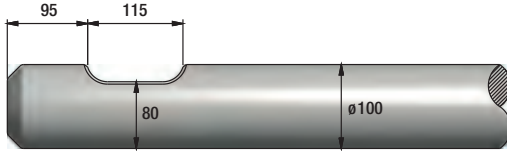
ALLIED HY-RAM 740



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	1000	D040-1000P	58.9
Chisel	100	1000	D040-1000C	58.9

FIGURE 170 KRUPP HM580

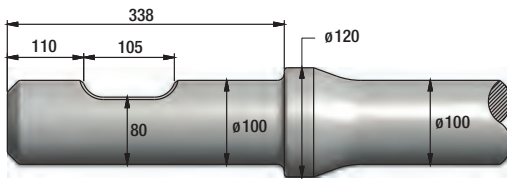
ALLIED HY-RAM 745 | CHICAGO PNEUMATIC (CP) CP750 / RX14 | ATLAS COPCO MB700/800



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	1000	D058-1000P	58.9
Chisel	100	1000	D058-1000C	58.9

FIGURE 171 KRUPP HM600 / 601

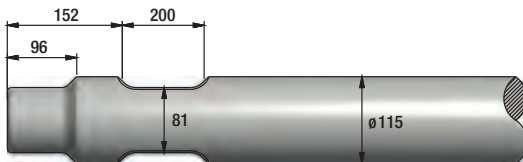
ALLIED HY-RAM 88



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	1000	D041-1000P	58.9
Chisel	100	1000	D041-1000C	58.9

FIGURE 172 KRUPP HM700 / 701 / 702 / 705

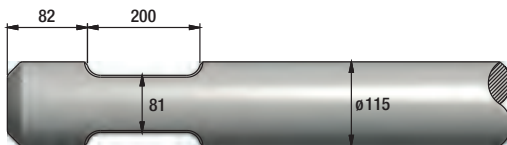
ALLIED HY-RAM 750



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1150	D042-1150P	89.5
Chisel	115	1150	D042-1150C	89.5
Blunt	115	1050	D042-1050B	81.8

FIGURE 173 KRUPP HM710 / 720

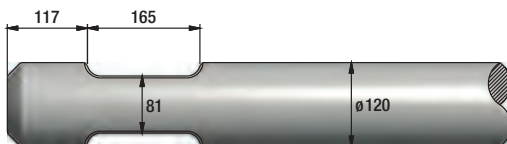
ALLIED HY-RAM 750B | CHICAGO PNEUMATIC (CP) CP1150 | JCB HM1260 / HM1270Q



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1080	D043-1080P	84.1
Chisel	115	1080	D043-1080C	84.1
Blunt	115	1000	D043-1000B	77.9

FIGURE 174 KRUPP HM780

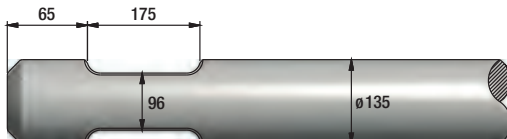
ALLIED HY-RAM 755 | ATLAS COPCO MB1200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1150	D059-1150P	97.5
Chisel	120	1150	D059-1150C	97.5
Blunt	120	1050	D059-1050B	89.0
Blunt	120	1150	D059-1150B	97.5

FIGURE 175 KRUPP HM950 / 960

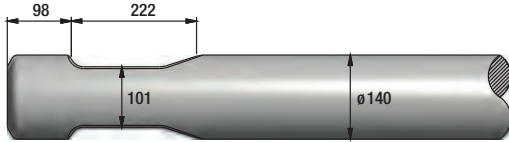
ALLIED HY-RAM 770B | CHICAGO PNEUMATIC (CP) CP1550 / CP1650 / RX22 | ATLAS COPCO MB1600



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1080	D046-1080P	114.2
Point	135	1350	D046-1350P	142.7
Chisel	135	1080	D046-1080C	114.2
Chisel	135	1350	D046-1350C	142.7
Blunt	135	1080	D046-1080B	114.2

KRUPP HM1000**FIGURE 176**

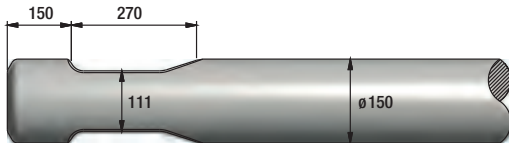
ALLIED HY-RAM 775CS | ATLAS COPCO MB1700



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D053-1200P	138.5
Chisel	140	1200	D053-1200C	138.5
Blunt	140	1100	D053-1100B	126.9

KRUPP HM1500MV**FIGURE 177**

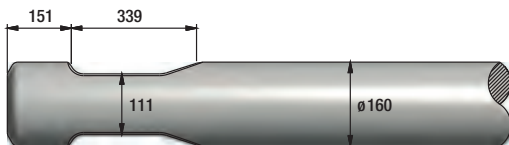
ALLIED HY-RAM 785 | CHICAGO PNEUMATIC (CP) CP2250 / RX29 / RX30 | ATLAS COPCO HB2200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1300	D055-1300P	172.2
Chisel	150	1300	D055-1300C	172.2
Blunt	150	1150	D055-1150B	152.3

KRUPP HM2000MV**FIGURE 178**

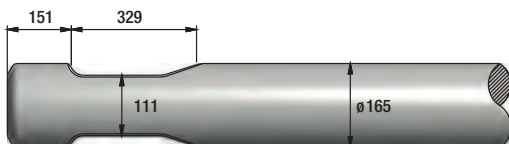
ALLIED HY-RAM 795CS | (SEE ALSO ATLAS COPCO)



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1400	D056-1400P	211.0
Chisel	160	1400	D056-1400C	211.0
Blunt	160	1250	D056-1250B	188.4

KRUPP HM2100 / 2300**FIGURE 179**

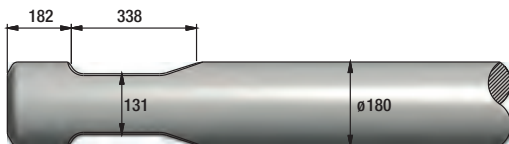
ALLIED HY-RAM 797 | ATLAS COPCO HB3000 | CHICAGO PNEUMATIC CP3050



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1500	D060-1500P	240.4
Point	165	1300	D060-1300P	208.4
Chisel	165	1500	D060-1500C	240.4
Chisel	165	1300	D060-1300C	208.4
Blunt	165	1300	D060-1300B	208.4

KRUPP HM2500 / 2600MV**FIGURE 180**

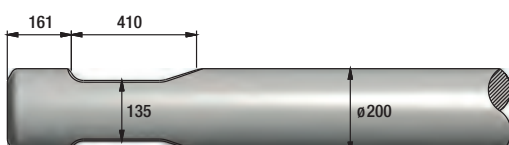
ALLIED HY-RAM 800 / 805 | ATLAS COPCO HB4200 | CHICAGO PNEUMATIC CP4250 | KRUPP HM2500MV / 2600 / HB4200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	180	1500	D057-1500P	286.1
Chisel	180	1500	D057-1500C	286.1
Blunt	180	1350	D057-1350B	257.5

KRUPP HM3000**FIGURE 181**

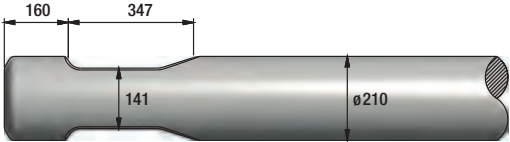
ATLAS COPCO HB5800



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	200	1700	D066-1700P	400.4
Chisel	200	1700	D066-1700C	400.4
Blunt	200	1500	D066-1500B	353.3

FIGURE 182 KRUPP HM4000

ALLIED HY-RAM 905 | ATLAS COPCO HB7000

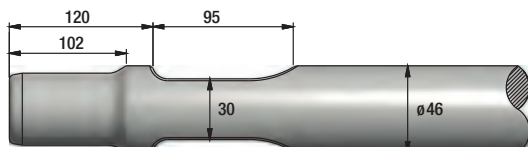


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	210	1800	D052-1800P	467.3
Chisel	210	1800	D052-1800C	467.3
Blunt	210	1600	D052-1600B	415.4

MONTABERT BRH40

FIGURE 183

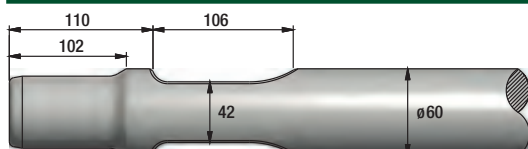
IDROMECCANICA IMI 85 | ITALDEM K 80 | OCM 8 | OMAL 80 | OMD 20 |
PROMOVE PMV90 / P3SH | STAR SH40



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	46	500	D002-0500P	6.0
Point	46	700	D002-0700P	8.3
Chisel	46	500	D002-0500C	6.0
Chisel	46	700	D002-0700C	8.3

MONTABERT BRH75 / 76 / 90 / 91

FIGURE 184

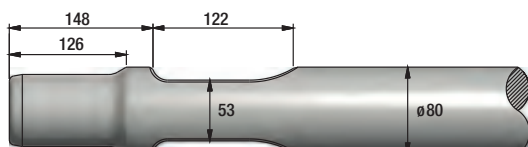


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	60	550	D005-0550P	11.7
Chisel	60	550	D005-0550C	11.7

MONTABERT BRH125

FIGURE 185

IDROMECCANICA IMI 260 | ITALDEM K 270 | OCM25 | OMAL 235 / 270 / 270S / 276 | OMD 30 |
PROMOVE PMV290 / 390 / P12SH | STAR SH280

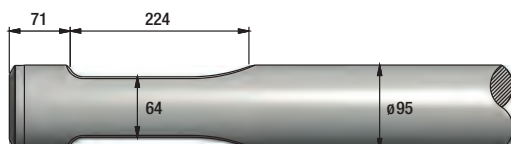


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	650	D006-0650P	24.5
Point	80	760	D006-0760P	28.6
Point	80	950	D006-0950P	35.8
Chisel	80	650	D006-0650C	24.5
Chisel	80	760	D006-0760C	28.6
Chisel	80	950	D006-0950C	35.8

MONTABERT BRH250 / 270

FIGURE 186

IDROMECCANICA IMI 600 / 605 | ITALDEM K 550 | JCB HM480 | OCM55 | OMAL 500 / 550 |
OMD 50 | PROMOVE PMV690 / P16SH | STAR SH560

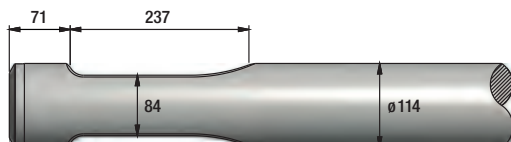


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	850	D007-0850P	45.2
Point	95	1000	D007-1000P	53.1
Chisel	95	850	D007-0850C	45.2
Chisel	95	1000	D007-1000C	53.1

MONTABERT BRH501 / 570

FIGURE 187

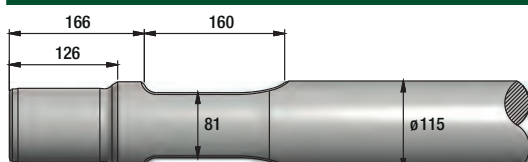
IDROMECCANICA IMI / 1000 / 1010 | INDECO HP1800 | ITALDEM K 1000 | OCM100 |
OMAL 1000 / 1050 | OMD 100 | PROMOVE PMV1000 / P23SH | STAR SH990



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	114	1000	D008-1000P	76.5
Point	114	1300	D008-1300P	99.5
Chisel	114	1000	D008-1000C	76.5
Chisel	114	1300	D008-1300C	99.5
Blunt	114	1000	D008-1000B	76.5

MONTABERT BRH620

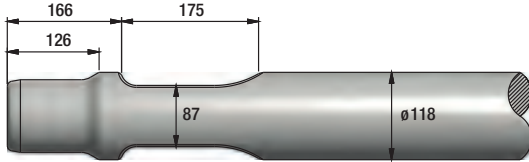
FIGURE 188



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1000	D009-1000P	76.5
Chisel	115	1000	D009-1000C	76.5

FIGURE 189 MONTABERT BRH625 / 900

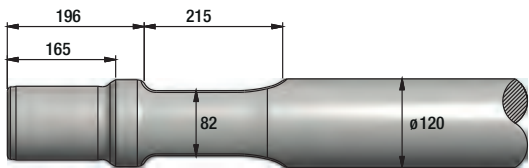
MONTABERT M900 | JCB HM630 | PROMOVE P22 | STAR SH1200 | ITALDEM K 1030



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	118	1000	D010-1000P	82.0
Point	118	1150	D010-1150P	94.3
Chisel	118	1000	D010-1000C	82.0
Chisel	118	1150	D010-1150C	94.3
Blunt	118	1000	D010-1000B	82.0

FIGURE 190 MONTABERT BRH750

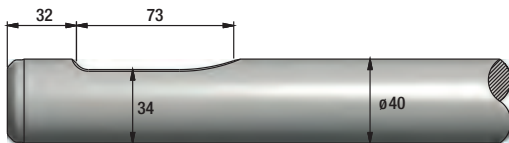
IDROMECCANICA IMI 1200 | ITALDEM K 1300 | OCM130 | OMD 2000 | PROMOVE PMV1390 / P27SH | STAR SH1400



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1100	D011-1100P	93.3
Chisel	120	1100	D011-1100C	93.3
Blunt	120	1000	D011-1000B	84.8

FIGURE 191 MONTABERT M30

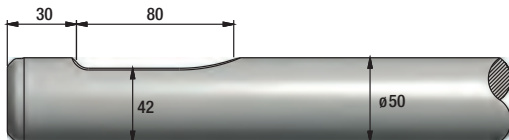
BOBCAT B300 | MONTABERT BRP30



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	410	D001-0410P	3.9
Chisel	40	410	D001-0410C	3.9

FIGURE 192 MONTABERT M50 / 50SMS

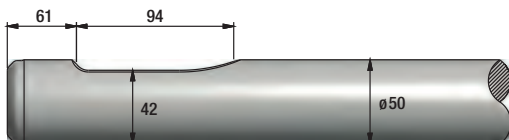
BOBCAT B500 | MONTABERT BRP45 / 50



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	430	D003-0430P	6.3
Point	50	630	D003-0630P	9.3
Chisel	50	430	D003-0430C	6.3
Chisel	50	630	D003-0630C	9.3

FIGURE 193 MONTABERT M70 / 70SMS

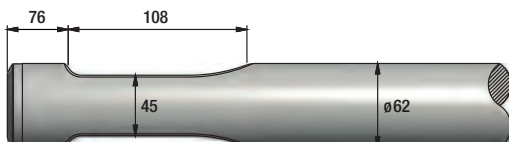
BOBCAT B600 / B700 | MONTABERT BRP60 / 70



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	510	D004-0510P	7.5
Point	50	710	D004-0710P	10.5
Chisel	50	510	D004-0510C	7.5
Chisel	50	710	D004-0710C	10.5

FIGURE 194 MONTABERT M85 / 85SMS / 90 / 90SMS

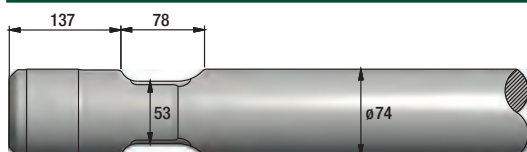
BOBCAT B850 / B950 | MONTABERT 95 / 100 (BRP85 / 95 / 100)



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	62	620	D020-0620P	14.0
Chisel	62	620	D020-0620C	14.0

MONTABERT 125SX

FIGURE 195

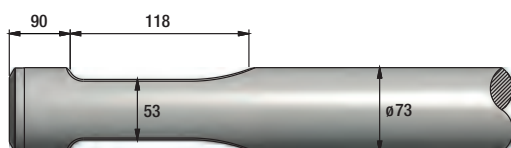


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	74	750	D018-0750P	24.2
Chisel	74	750	D018-0750C	24.2

MONTABERT M140 / 140SMS / 150 / 150SMS

FIGURE 196

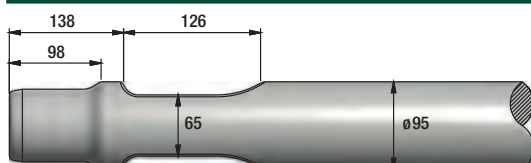
BOBCAT B1200 / B1400 | MONTABERT M150 (BRP130 / 140 / 150)



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	74	740	D019-0740P	23.2
Point	74	950	D019-0950P	29.8
Chisel	74	740	D019-0740C	23.2
Chisel	74	950	D019-0950C	29.8

MONTABERT M300 / 300MS

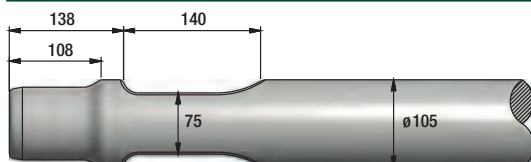
FIGURE 197



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	850	D029-0850P	43
Chisel	95	850	D029-0850C	43

MONTABERT M600

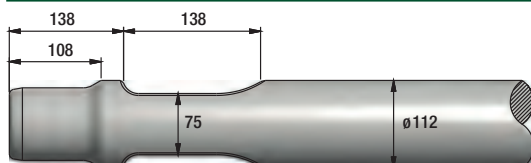
FIGURE 198



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	930	D026-0930P	60.4
Chisel	105	930	D026-0930C	60.4

MONTABERT M700 / 700SMS

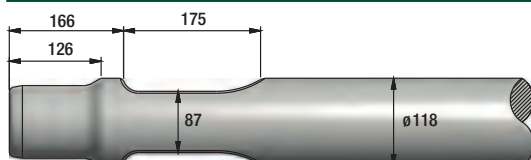
FIGURE 199



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	112	1000	D027-1000P	72.5
Chisel	112	1000	D027-1000C	72.5

MONTABERT M900 / 900MS / BRH625

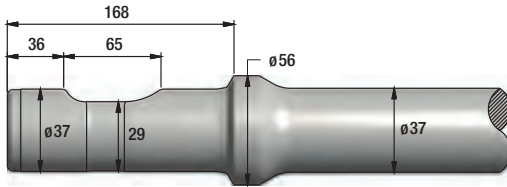
FIGURE 200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	118	1000	D010-1000P	82.0
Point	118	1150	D010-1150P	94.3
Chisel	118	1000	D010-1000C	82.0
Chisel	118	1150	D010-1150C	94.3
Blunt	118	1000	D010-1000B	82.0

FIGURE 201 MONTABERT SILVER CLIP 06 (SC06)

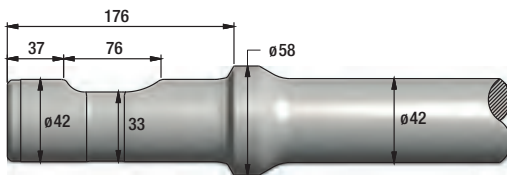
BOBCAT B280



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	37	455	D708-0440P	3.7
Chisel	37	455	D708-0440C	3.7
Pyramid Pt	37	455	D708-0440PP	3.7

FIGURE 202 MONTABERT SILVER CLIP 08 (SC08)

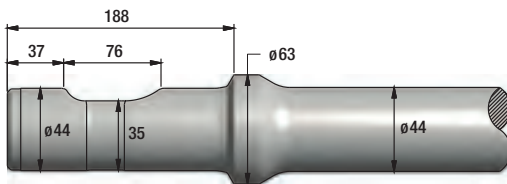
BOBCAT B380



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	42	455	D707-0455P	4.7
Chisel	42	455	D707-0475C	4.7
Pyramid Pt	42	455	D707-0455PP	4.7

FIGURE 203 MONTABERT SILVER CLIP 12 (SC12)

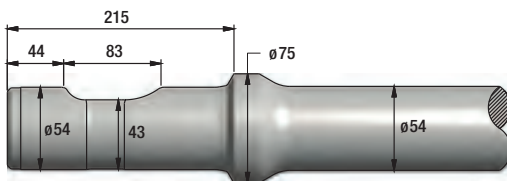
BOBCAT B580



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	44	475	D700-0475P	5.4
Chisel	44	475	D700-0475C	5.4
Pyramid Pt	44	475	D700-0475PP	5.4

FIGURE 204 MONTABERT SILVER CLIP 16 (SC16)

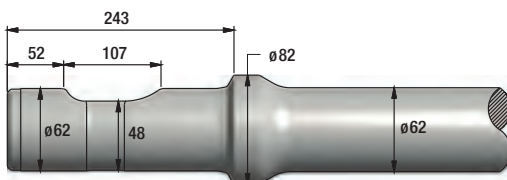
BOBCAT B680



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	54	550	D703-0550P	9.4
Chisel	54	550	D703-0550C	9.4
Pyramid Pt	54	550	D703-0550PP	9.4

FIGURE 205 MONTABERT SILVER CLIP 22 (SC22)

BOBCAT B880

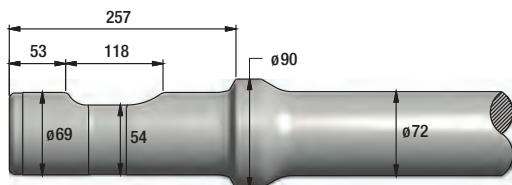


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	62	580	D704-0580P	13.1
Chisel	62	580	D704-0580C	13.1
Pyramid Pt	62	580	D704-0580PP	13.1

MONTABERT SILVER CLIP 28 (SC28)

FIGURE 206

BOBCAT B980

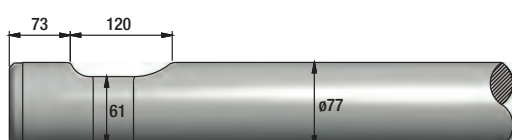


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	69	620	D705-0620P	17.4
Chisel	69	620	D705-0620C	17.4
Pyramid Pt	69	620	D705-0620PP	17.4

MONTABERT SILVER CLIP 36 (SC36)

FIGURE 207

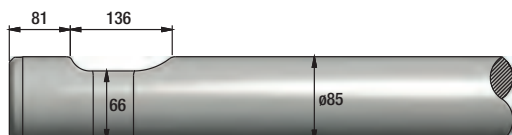
BOBCAT B1180



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	77	710	D706-0710P	24.8
Chisel	77	710	D706-0710C	24.8
Pyramid Pt	77	710	D706-0710PP	24.8

MONTABERT SILVER CLIP 42 (SC42)

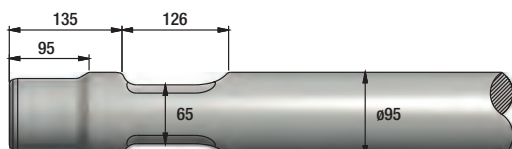
FIGURE 208



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	800	D710-0800P	34.0
Chisel	85	800	D710-0800C	34.0
Pyramid Pt	85	800	D710-0800PP	34.0

MONTABERT SILVER CLIP 50 (SC50)

FIGURE 209

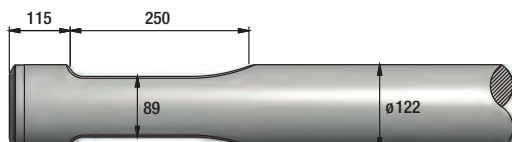


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	850	D711-0850P	45.2
Chisel	95	850	D711-0850C	45.2
Pyramid Pt	95	850	D711-0850PP	45.2

MONTABERT V32 / V32MS / V1200

FIGURE 210

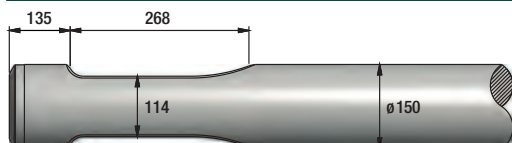
JCB HM690 | MONTABERT V32(BRV32)



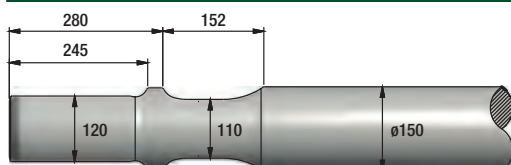
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	122	1100	D012-1100P	96.4
Point	122	1300	D012-1300P	113.9
Chisel	122	1100	D012-1100C	96.4
Chisel	122	1300	D012-1300C	113.9
Blunt	122	1100	D012-1100B	96.4

MONTABERT V43 / BRV43

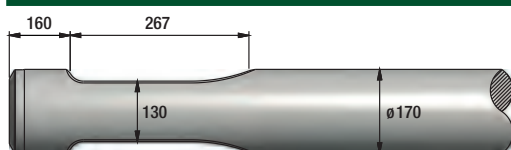
FIGURE 211



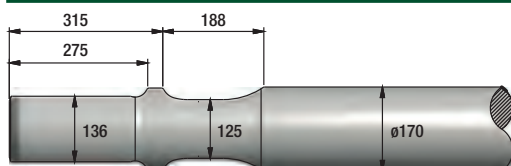
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1250	D014-1250P	165.6
Chisel	150	1250	D014-1250C	165.6
Blunt	150	1100	D014-1100B	145.7

FIGURE 212 MONTABERT V45 / BRV45

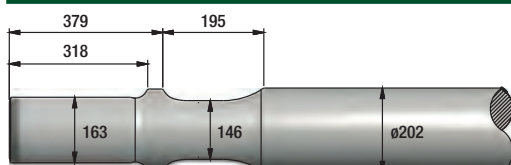
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1350	D021-1350P	178.8
Point	150	1500	D021-1500P	198.7
Chisel	150	1350	D021-1350C	178.8
Chisel	150	1500	D021-1500C	198.7
Blunt	150	1350	D021-1350B	178.8
Blunt	150	1500	D021-1500B	198.7

FIGURE 213 MONTABERT V53 / BRV53

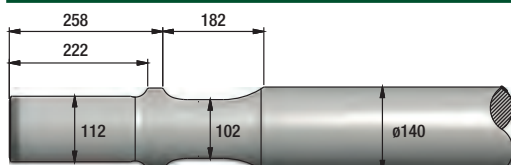
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	170	1400	D016-1400P	238.2
Chisel	170	1400	D016-1400C	238.2
Blunt	170	1250	D016-1250B	212.7

FIGURE 214 MONTABERT V55 / BRV55

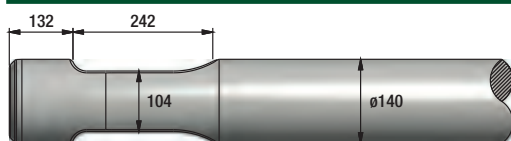
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	170	1500	D022-1500P	255.2
Chisel	170	1500	D022-1500C	255.2
Blunt	170	1500	D022-1500B	255.2

FIGURE 215 MONTABERT V65 / BRV65

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	202	1800	D025-1800P	432.4
Chisel	202	1800	D025-1800C	432.4
Blunt	202	1800	D025-1800B	432.4

FIGURE 216 MONTABERT V1600

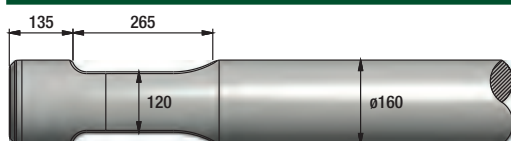
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1300	D024-1300P	154.3
Chisel	140	1300	D024-1300C	154.3
Blunt	140	1200	D024-1200B	142.5

FIGURE 217 MONTABERT V1800

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1300	D709-1300P	150.0
Chisel	140	1300	D709-1300C	150.0
Blunt	140	1300	D709-1300B	150.0

MONTABERT V2500

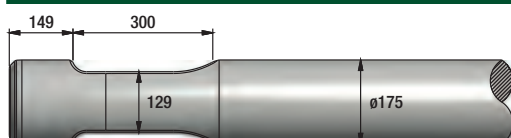
FIGURE 218



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1500	D701-1500P	226.1
Chisel	160	1500	D701-1500C	226.1
Blunt	160	1350	D701-1350B	203.5

MONTABERT V3500

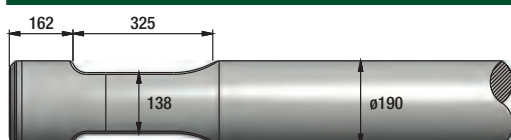
FIGURE 219



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	175	1560	D717-1560P	278.1
Chisel	175	1560	D717-1560C	278.1
Blunt	175	1400	D717-1400B	249.5

MONTABERT V4500

FIGURE 220

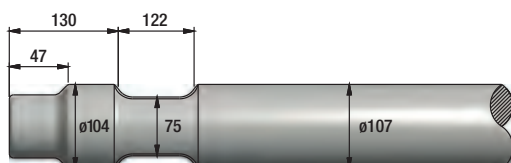


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	190	1660	D718-1660P	352.8
Chisel	190	1660	D718-1660C	352.8
Blunt	190	1450	D718-1450B	308.2

MONTABERT (BLUE LINE) XL1000

FIGURE 221

DOOSAN DXB100H

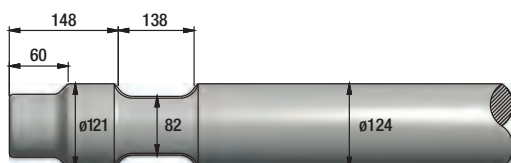


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	107	1000	D712-1000P	67.4
Chisel	107	1000	D712-1000C	67.4
Blunt	107	1000	D712-1000B	67.4

MONTABERT (BLUE LINE) XL1300

FIGURE 222

DOOSAN DXB130H

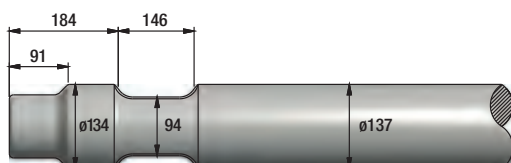


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	124	1100	D713-1100P	88.7
Chisel	124	1100	D713-1100C	88.7
Blunt	124	1100	D713-1100B	88.7

MONTABERT (BLUE LINE) XL1700

FIGURE 223

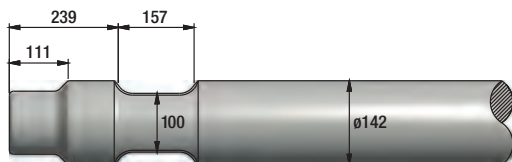
DOOSAN DXB170H



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	137	1200	D714-1200P	132.6
Chisel	137	1200	D714-1200C	132.6
Blunt	137	1200	D714-1200B	132.6

FIGURE 224**MONTABERT (BLUE LINE) XL1900**

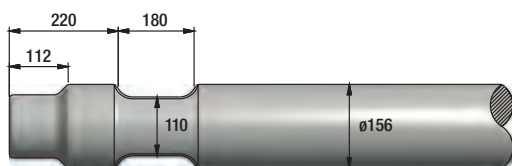
DOOSAN DXB190H



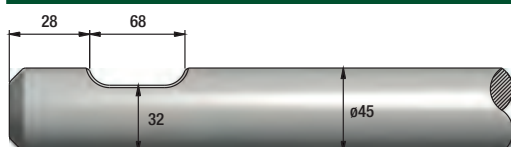
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	142	1350	D715-1350P	160.3
Chisel	142	1350	D715-1350C	160.3
Blunt	142	1350	D715-1350B	160.3

FIGURE 225**MONTABERT (BLUE LINE) XL2600**

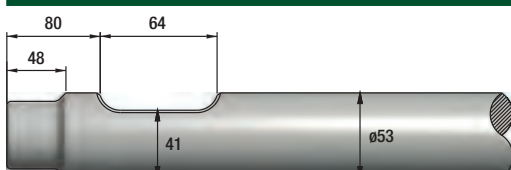
DOOSAN DXB260H



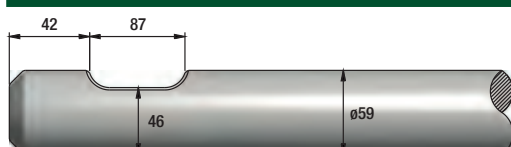
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	156	1400	D716-1400P	200.6
Chisel	156	1400	D716-1400C	200.6
Blunt	156	1400	D716-1400B	200.6

MSB SAGA 20II**FIGURE 226**

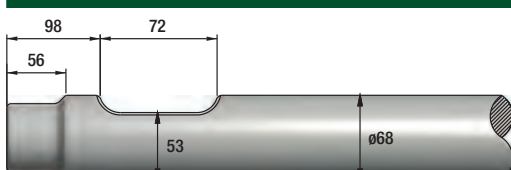
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	400	D331-0400P	4.7
Chisel	45	400	D331-0400C	4.7

MSB SAGA 30II**FIGURE 227**

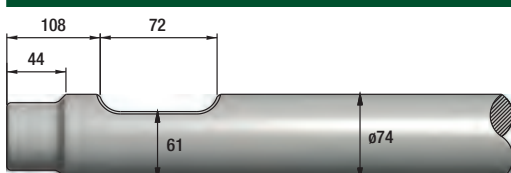
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	53	500	D518-0500P	8.3
Chisel	53	500	D518-0500C	8.3

MSB SAGA 40II**FIGURE 228**

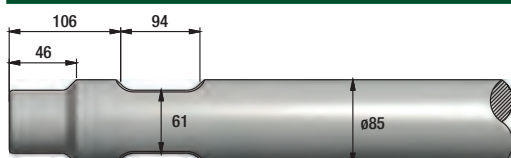
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	59	550	D332-0550P	11.5
Chisel	59	550	D332-0550C	11.5

MSB SAGA 50**FIGURE 229**

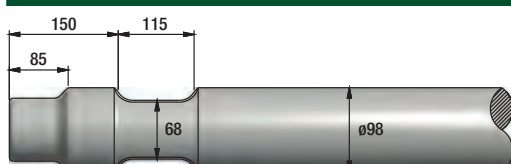
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	700	D333-0700P	19.1
Chisel	68	700	D333-0700C	19.1

MSB SAGA 80 / 81**FIGURE 230**

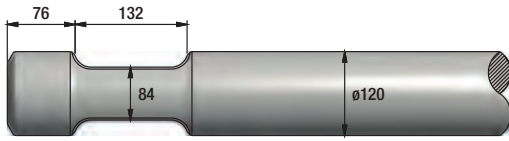
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	74	750	D334-0750P	24.5
Chisel	74	750	D334-0750C	24.5

MSB SAGA 100**FIGURE 231**

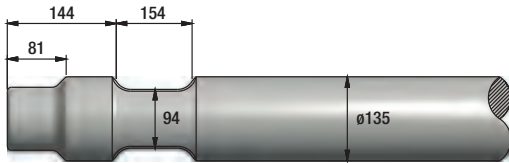
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	900	D335-0900P	38.3
Chisel	85	900	D335-0900C	38.3

MSB SAGA 120**FIGURE 232**

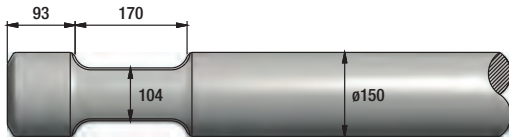
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	98	950	D336-0950P	53.7
Chisel	98	950	D336-0950C	53.7

FIGURE 233 MSB SAGA 180

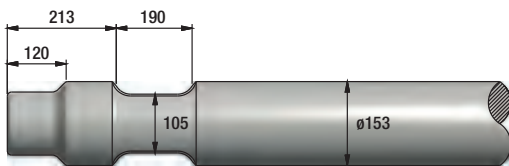
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1100	D337-1100P	93.3
Chisel	120	1100	D337-1100C	93.3

FIGURE 234 MSB SAGA 200II / 220

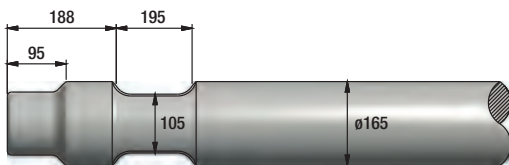
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1200	D338-1200P	128.8
Chisel	135	1200	D338-1200C	128.8

FIGURE 235 MSB SAGA 300

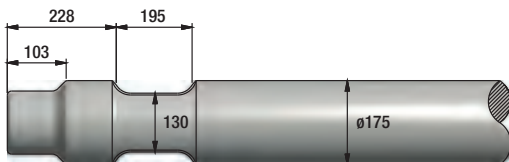
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1300	D339-1300P	172.2
Chisel	150	1300	D339-1300C	172.2

FIGURE 236 MSB SAGA 350

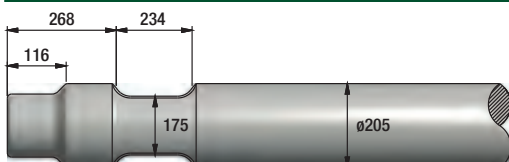
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	153	1400	D528-1400P	192.9
Chisel	153	1400	D528-1400C	192.9

FIGURE 237 MSB MS 35AT

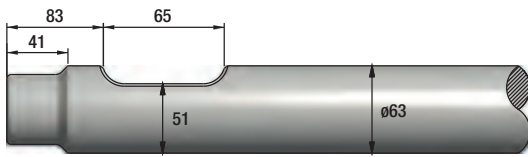
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1350	D523-1350P	216.4
Chisel	165	1350	D523-1350C	216.4

FIGURE 238 MSB MS 45AT

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	175	1500	D524-1500P	270.5
Chisel	175	1500	D524-1500C	270.5

FIGURE 239 MSB MS 75AT

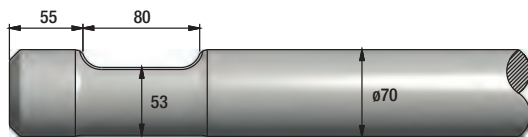
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	205	1650	D526-1650P	408.2
Chisel	205	1650	D526-1650C	408.2

MSB MS200**FIGURE 240**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	63	600	D529-0600P	13.6
Chisel	63	600	D529-0600C	13.6

MSB MS220H / 230H**FIGURE 241**

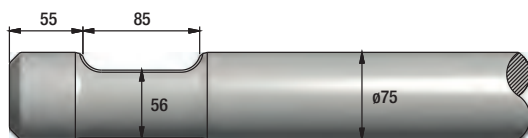
ALLIED AR70B | INAN MAKINA (MTB) MT 25 | MTB MT25 | WIMMER W-220



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	70	680	D501-0680P	19.6
Chisel	70	680	D501-0680C	19.6

MSB MS250**FIGURE 242**

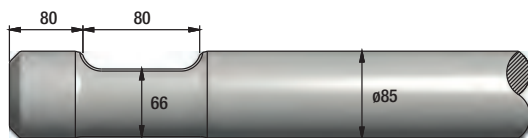
ALLIED AR75B | INAN MAKINA (MTB) MT 35 / 36 | MSB MS225 / MS250H | MTB MT35 / 36



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	700	D502-0700P	23.2
Chisel	75	700	D502-0700C	23.2

MSB MS300**FIGURE 243**

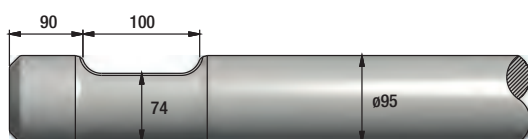
ALLIED AR85 | INAN MAKINA (MTB) MT 45 | MSB MS300H | MTB MT45 | WIMMER W-330



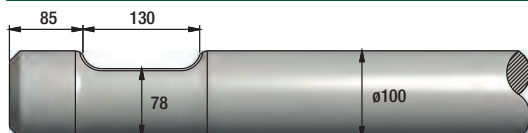
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	790	D503-0790P	33.6
Chisel	85	790	D503-0790C	33.6

MSB MS400**FIGURE 244**

ALLIED AR95 | MSB MS400H | WIMMER W-440



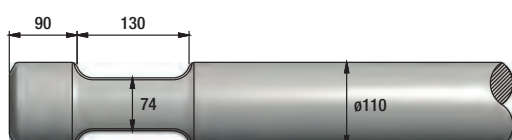
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	920	D504-0920P	48.9
Chisel	95	920	D504-0920C	48.9

MSB MS450H / MS460H**FIGURE 245**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	920	D517-0920P	54.2
Chisel	100	920	D517-0920C	54.2

MSB MS500H / MS520H**FIGURE 246**

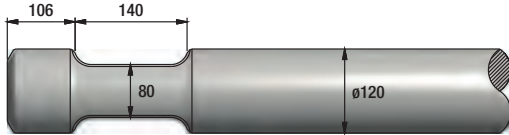
INAN MAKINA (MTB) MT 120 | MTB MT120 | WIMMER W-550



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	110	1050	D505-1050P	74.8
Chisel	110	1050	D505-1050C	74.8

FIGURE 247 MSB MS550H

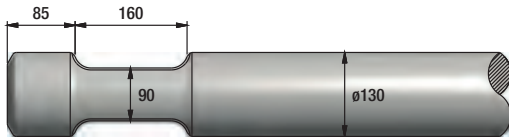
ALLIED AR120 | INAN MAKINA (MTB) MT 150 | MTB MT150 | WIMMER W-600



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1100	D516-1100P	93.3
Chisel	120	1100	D516-1100C	93.3

FIGURE 248 MSB MS600

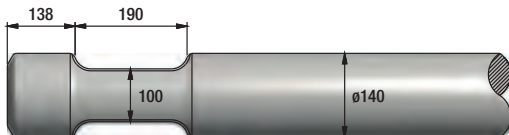
ALLIED AR130B | INAN MAKINA (MTB) MT 170 | MTB MT170 | WIMMER W-660



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1200	D507-1200P	119.4
Chisel	130	1200	D507-1200C	119.4
Blunt	130	1100	D507-1100B	109.4

FIGURE 249 MSB MS700

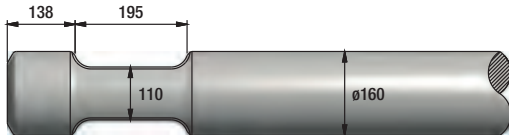
ALLIED AR140 | INAN MAKINA (MTB) MT 210 | MTB MT210 | WIMMER W-770



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D509-1200P	138.5
Chisel	140	1200	D509-1200C	138.5
Blunt	140	1100	D509-1100B	126.9

FIGURE 250 MSB MS800 / MS810H

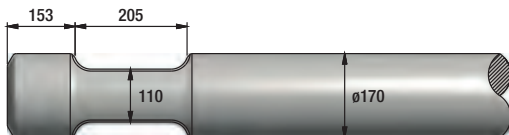
ALLIED AR160C | INAN MAKINA (MTB) MT 275 | MSB MS810H | MTB MT270 / 275 | WIMMER W-880



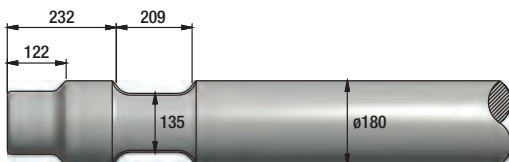
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1400	D511-1400P	211.0
Chisel	160	1400	D511-1400C	211.0
Blunt	160	1250	D511-1250B	188.4

FIGURE 251 MSB MS900 / MS910

INAN MAKINA (MTB) MT 360 | MTB MT360 | WIMMER W-990



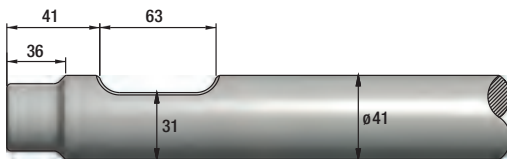
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	170	1450	D512-1450P	246.7
Chisel	170	1450	D512-1450C	246.7
Blunt	170	1300	D512-1300B	221.2

FIGURE 252 MSB MS1000H

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	180	1600	D527-1600P	305.2
Chisel	180	1600	D527-1600C	305.2
Blunt	180	1600	D527-1600B	305.2

NPK E-106

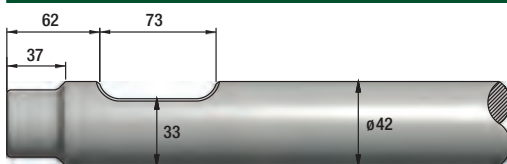
FIGURE 253



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	41	410	D134-0410P	4.1
Chisel	41	410	D134-0410C	4.1

NPK E-200 / GH06

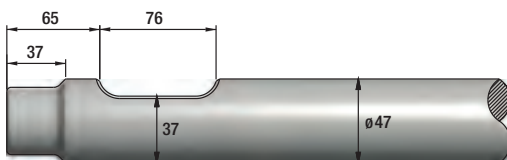
FIGURE 254



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	42	500	D630-0500P	5.2
Chisel	42	500	D630-0500C	5.2

NPK E-201 / GH07

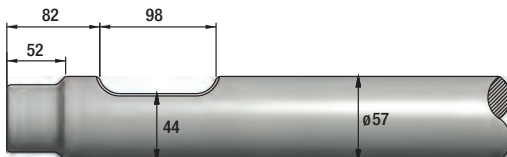
FIGURE 255



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	47	550	D631-0550P	7.2
Chisel	47	550	D631-0550C	7.2

NPK E-202 / GH1

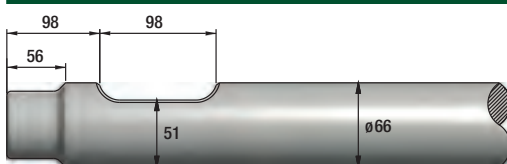
FIGURE 256



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	57	650	D632-0650P	12.4
Chisel	57	650	D632-0650C	12.4

NPK E-203 / GH2

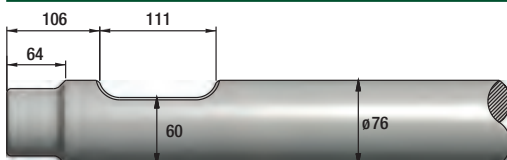
FIGURE 257



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	66	700	D633-0700P	18.0
Chisel	66	700	D633-0700C	18.0

NPK E-204 / GH3

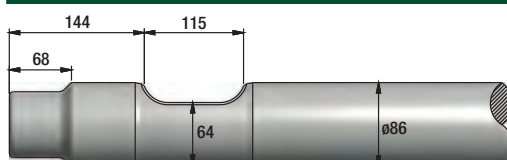
FIGURE 258



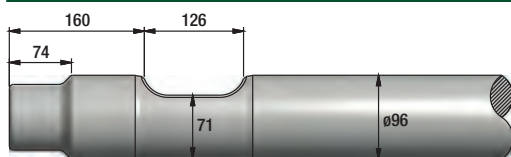
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	76	750	D634-0750P	25.5
Chisel	76	750	D634-0750C	25.5

NPK E-205 / GH4

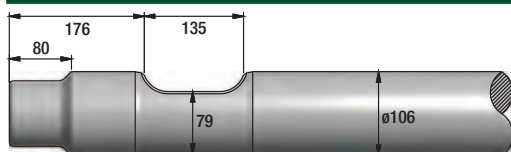
FIGURE 259



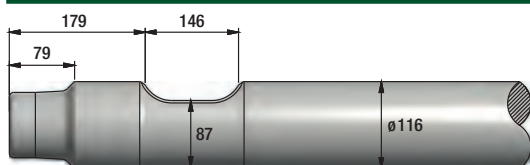
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	86	850	D635-0850P	37.0
Chisel	86	850	D635-0850C	37.0

FIGURE 260 NPK E-206

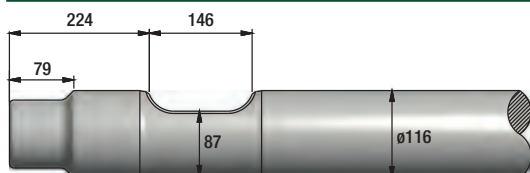
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	96	940	D638-0940P	51.0
Chisel	96	940	D638-0940C	51.0

FIGURE 261 NPK E-207 / GH6

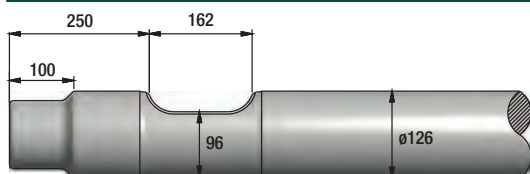
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	106	950	D636-0950P	62.8
Chisel	106	950	D636-0950C	62.8

FIGURE 262 NPK E-208A

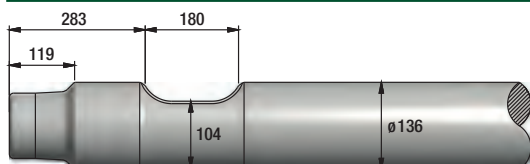
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	116	1050	D637-1050P	83.2
Chisel	116	1050	D637-1050C	83.2

FIGURE 263 NPK GH7

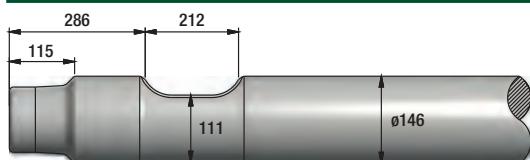
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	116	1050	D643-1050P	83.2
Chisel	116	1050	D643-1050C	83.2

FIGURE 264 NPK GH9 / H-10XB / H-10XE

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	126	1100	D114-1100P	102.8
Chisel	126	1100	D114-1100C	102.8
Blunt	126	1000	D114-1000B	93.5

FIGURE 265 NPK GH10

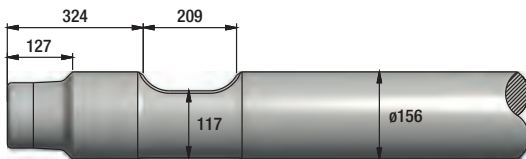
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	136	1200	D639-1200P	130.7
Chisel	136	1200	D639-1200C	130.7
Blunt	136	1100	D639-1100B	119.8

FIGURE 266 NPK GH12

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	146	1300	D640-1300P	160.9
Chisel	146	1300	D640-1300C	160.9
Blunt	146	1200	D640-1200B	148.5

NPK GH15

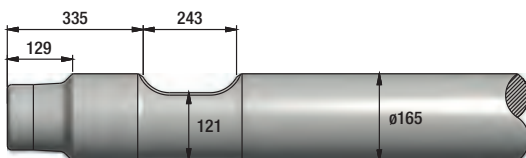
FIGURE 267



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	156	1400	D641-1400P	198.0
Chisel	156	1400	D641-1400C	198.0
Blunt	156	1300	D641-1300B	183.9

NPK GH18

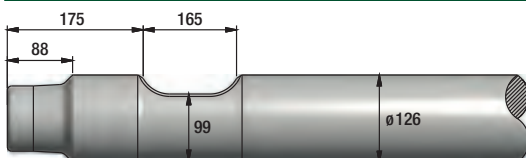
FIGURE 268



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1630	D642-1630P	261.3
Chisel	165	1630	D642-1630C	261.3
Blunt	165	1450	D642-1450B	232.4

NPK E-210A

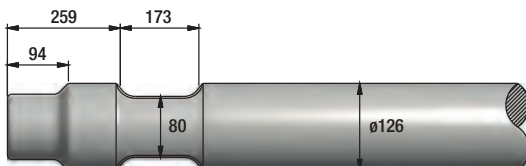
FIGURE 269



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	126	1100	D135-1100P	102.8
Chisel	126	1100	D135-1100C	102.8
Blunt	126	1100	D135-1100B	102.8

NPK E-12X / E-212

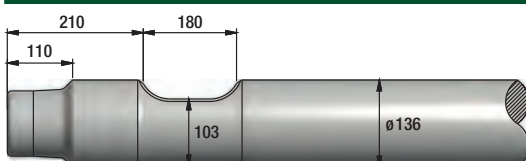
FIGURE 270



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	126	1200	D122-1200P	112.2
Chisel	126	1200	D122-1200C	112.2
Blunt	126	1200	D122-1200B	112.2

NPK E-213

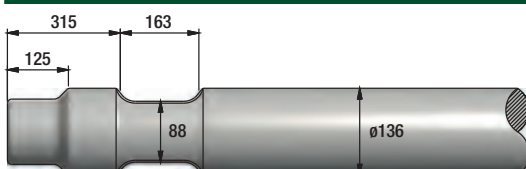
FIGURE 271



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	136	1300	D126-1300P	141.6
Chisel	136	1300	D126-1300C	141.6
Blunt	136	1300	D126-1300B	141.6

NPK E-15X / E-215

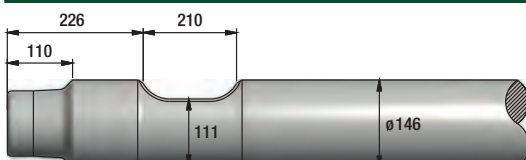
FIGURE 272



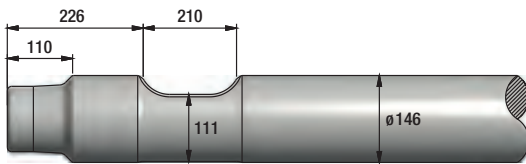
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	136	1250	D123-1250P	136.1
Chisel	136	1250	D123-1250C	136.1
Blunt	136	1250	D123-1250B	136.1

NPK E-216

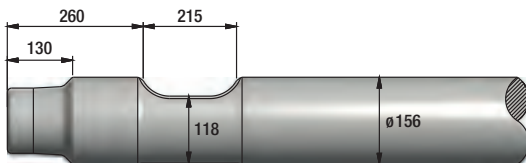
FIGURE 273



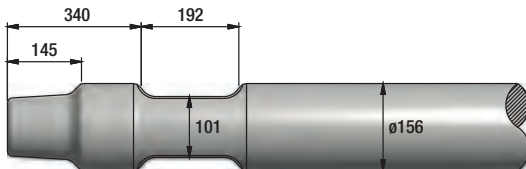
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	146	1300	D136-1300P	163.1
Chisel	146	1300	D136-1300C	163.1
Blunt	146	1300	D136-1300B	163.1

FIGURE 274 NPK E-18X / E-218

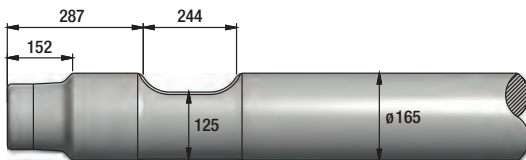
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	146	1300	D125-1300P	163.1
Chisel	146	1300	D125-1300C	163.1
Blunt	146	1300	D125-1300B	163.1

FIGURE 275 NPK E-220

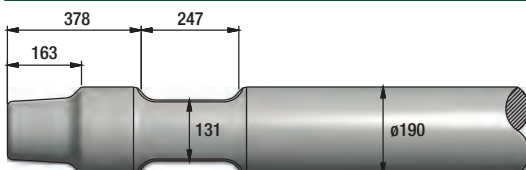
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	156	1350	D127-1350P	193.4
Chisel	156	1350	D127-1350C	193.4
Blunt	156	1350	D127-1350B	193.4

FIGURE 276 NPK E-24X / E-224

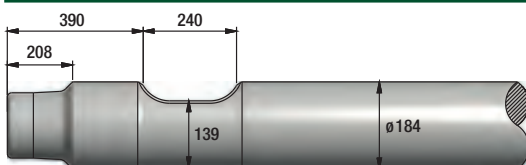
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	156	1350	D128-1350P	193.4
Chisel	156	1350	D128-1350C	193.4
Blunt	156	1350	D128-1350B	193.4

FIGURE 277 NPK E-225

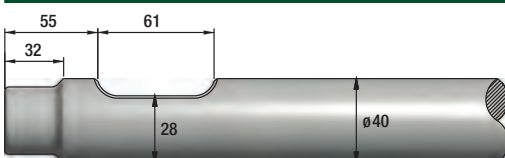
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1525	D137-1525P	244.4
Chisel	165	1525	D137-1525C	244.4
Blunt	165	1350	D137-1350B	216.4

FIGURE 278 NPK E-235

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	190	1650	D129-1650P	350.7
Chisel	190	1650	D129-1650C	350.7
Blunt	190	1650	D129-1650B	350.7

FIGURE 279 NPK E-240A

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	184	1800	D132-1800P	358.8
Chisel	184	1800	D132-1800C	358.8
Blunt	184	1600	D132-1600B	318.9

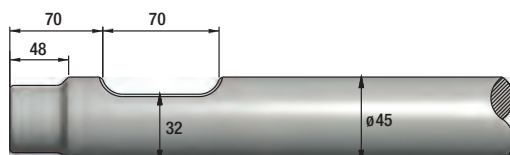
FIGURE 280 NPK H-06X

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	470	D101-0470P	4.4
Chisel	40	470	D101-0470C	4.4

NPK H-08XA

FIGURE 281

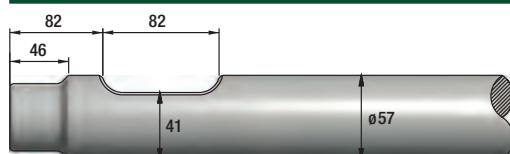
ARROWHEAD 2T



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	480	D102-0480P	5.7
Chisel	45	480	D102-0480C	5.7

NPK H-1XA

FIGURE 282

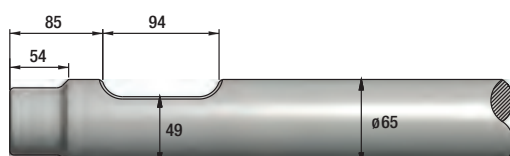


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	57	580	D103-0580P	11.1
Chisel	57	580	D103-0580C	11.1

NPK H-2XA / H-2XE

FIGURE 283

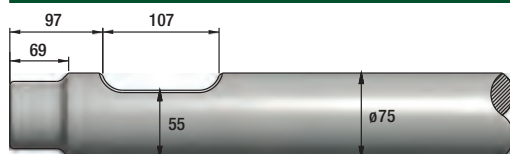
ARROWHEAD 4T



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	620	D104-0620P	15.4
Chisel	65	620	D104-0620C	15.4

NPK H-3XA / H-3XE

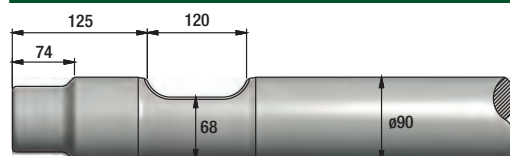
FIGURE 284



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	710	D105-0710P	23.5
Chisel	75	710	D105-0710C	23.5

NPK H-4X

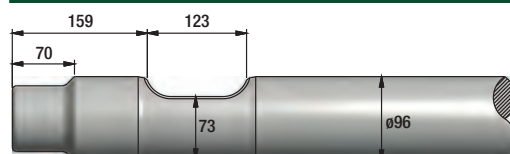
FIGURE 285



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	780	D106-0780P	37.2
Chisel	90	780	D106-0780C	37.2

NPK H-6XA

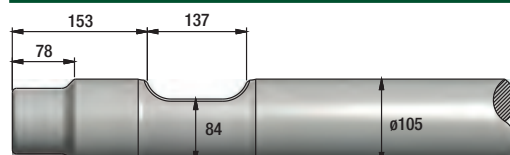
FIGURE 286



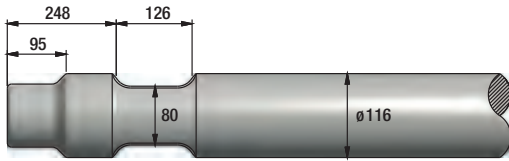
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	96	920	D109-0920P	49.9
Chisel	96	920	D109-0920C	49.9

NPK H-7XA

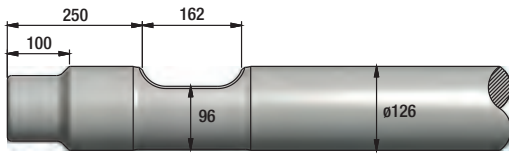
FIGURE 287



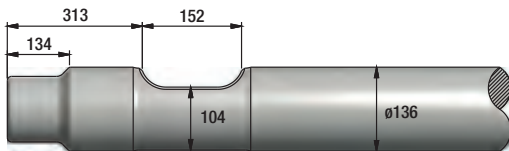
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	930	D110-0930P	60.4
Chisel	105	930	D110-0930C	60.4

FIGURE 288 NPK H-8XA

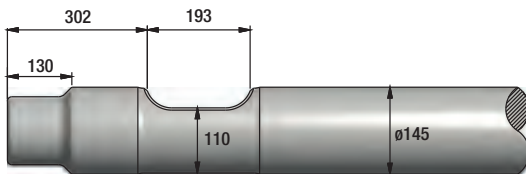
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	116	1015	D111-1015P	79.0
Chisel	116	1015	D111-1015C	79.0

FIGURE 289 NPK H-10XB / H-10XE

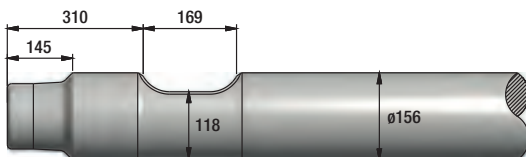
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	126	1100	D114-1100P	102.8
Chisel	126	1100	D114-1100C	102.8
Blunt	126	1000	D114-1000B	93.5

FIGURE 290 NPK H-12XE

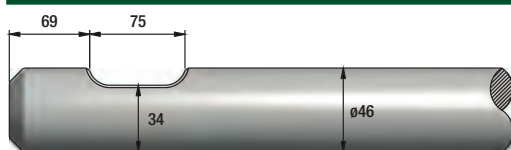
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	136	1200	D115-1200P	128.8
Chisel	136	1200	D115-1200C	128.8
Blunt	136	1100	D115-1100B	118.0

FIGURE 291 NPK H-16X / E

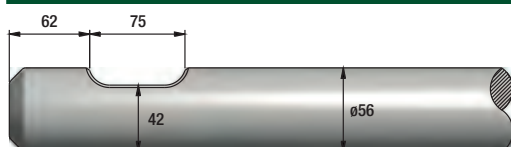
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	145	1300	D117-1300P	160.9
Chisel	145	1300	D117-1300C	160.9
Blunt	145	1300	D117-1300B	160.9

FIGURE 292 NPK H-20X / E

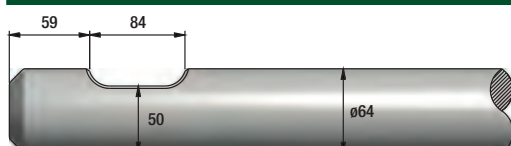
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	156	1350	D118-1350P	193.4
Chisel	156	1350	D118-1350C	193.4
Blunt	156	1350	D118-1350B	193.4

PROMOVE XP100**FIGURE 293**

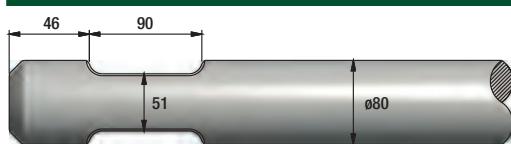
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	46	430	D776-0430P	5.4
Chisel	46	430	D776-0430C	5.4

PROMOVE XP150**FIGURE 294**

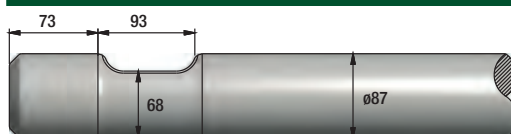
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	56	500	D777-0500P	9.2
Chisel	56	500	D777-0500C	9.2

PROMOVE XP250**FIGURE 295**

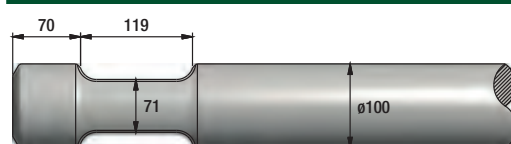
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	64	620	D778-0620P	15.0
Chisel	64	620	D778-0620C	15.0

PROMOVE XP300 / 400 / 450**FIGURE 296**

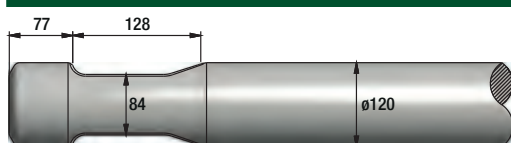
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	650	D779-0650P	24.5
Chisel	80	650	D779-0650C	24.5

PROMOVE XP550 / 551**FIGURE 297**

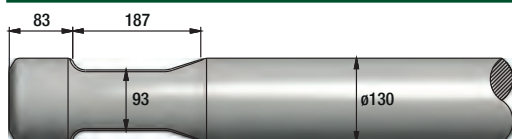
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	87	815	D780-0815P	36.3
Chisel	87	815	D780-0815C	36.3

PROMOVE XP800**FIGURE 298**

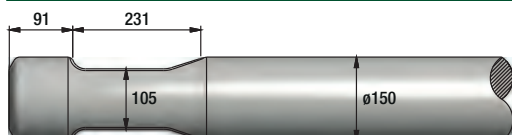
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	920	D781-0920P	54.2
Chisel	100	920	D781-0920C	54.2

PROMOVE XP1200**FIGURE 299**

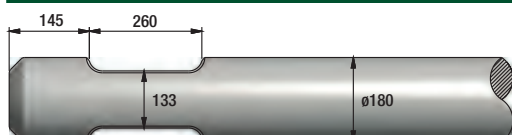
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1000	D782-1000P	84.8
Chisel	120	1000	D782-1000C	84.8
Blunt	120	900	D782-0900B	76.3

FIGURE 300**PROMOVE XP1500**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1100	D783-1100P	109.4
Chisel	130	1100	D783-1100C	109.4
Blunt	130	1000	D783-1000B	99.5

FIGURE 301**PROMOVE XP2400**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1300	D785-1300P	172.2
Chisel	150	1300	D785-1300C	172.2
Blunt	150	1200	D785-1200B	159.0

FIGURE 302**PROMOVE XP4500**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	180	1575	D787-1575P	300.4
Chisel	180	1575	D787-1575C	300.4
Blunt	180	1400	D787-1400B	267.1

RAMMER S18 / PICCOLO**FIGURE 303**

CATERPILLAR CAT H45 / H45FT | KUBOTA KXB 300 / 350 | VOLVO HB80



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	400	D070-0400P	3.8
Chisel	40	400	D070-0400C	3.8

RAMMER S21**FIGURE 304**

BOBCAT 1750 | CATERPILLAR CAT H50 / H50FT | JCB HM160 | O&K H32 | VOLVO HB130



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	480	D071-0480P	5.7
Point	45	560	D071-0560P	6.7
Chisel	45	480	D071-0480C	5.7
Chisel	45	560	D071-0560C	6.7

RAMMER S22**FIGURE 305**

CATERPILLAR CAT H63 / H63FT | O&K H45 | VOLVO HB200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	530	D091-0530P	7.8
Point	50	600	D091-0600P	8.8
Chisel	50	530	D091-0530C	7.8
Chisel	50	600	D091-0600C	8.8

RAMMER S23**FIGURE 306**

JCB HM260 | O&K H65 | ROBI BH30 | VOLVO HB300



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	63	680	D073-0680P	15.9
Point	63	780	D073-0780P	18.2
Chisel	63	680	D073-0680C	15.9
Chisel	63	780	D073-0780C	18.2

RAMMER S24**FIGURE 307**

CATERPILLAR CAT H70 / H70FT



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	70	730	D074-0730P	21.1
Chisel	70	730	D074-0730C	21.1

RAMMER S25**FIGURE 308**

JCB HM360 | O&K H85 | ROBI BH50 | VOLVO HB440

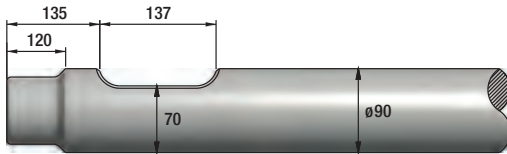


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	70	730	D075-0730P	21.1
Point	70	830	D075-0830P	23.9
Chisel	70	730	D075-0730C	21.1
Chisel	70	830	D075-0830C	23.9

RAMMER

FIGURE 309 RAMMER S26

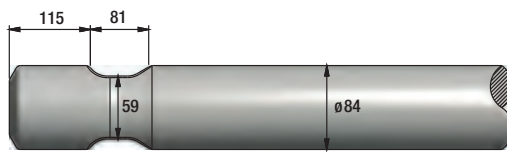
CATERPILLAR CAT H90 / H90FT | DAINONG (DNB) DNB D50 | JCB HM460



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	850	D076-0850P	40.5
Chisel	90	850	D076-0850C	40.5

FIGURE 310 RAMMER S27

JCB HM550 | O&K H120 | VOLVO HB600



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	84	840	D087-0840P	34.9
Chisel	84	840	D087-0840C	34.9

FIGURE 311 RAMMER S29

CATERPILLAR CAT H100 / H100FT | JCB HM850 | O&K H150 | ROBI BH80 | VOLVO HB800



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	900	D090-0900P	47.8
Chisel	95	900	D090-0900C	47.8

FIGURE 312 RAMMER S52

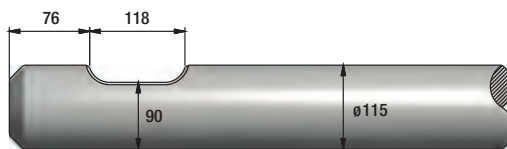
CATERPILLAR CAT 110 / B110



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	110	900	D077-0900P	64.1
Chisel	110	900	D077-0900C	64.1

FIGURE 313 RAMMER S54

CATERPILLAR CAT 115C / 116 | DAINONG (DNB) DNB D60 | JCB HM560



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1050	D078-1050P	81.8
Chisel	115	1050	D078-1050C	81.8

FIGURE 314 RAMMER S55/E66

CATERPILLAR CAT H120S | JCB HM660 | JCB HM1350



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1050	D079-1050P	81.8
Point	115	1150	D079-1150C	89.5
Chisel	115	1050	D079-1050C	81.8
Chisel	115	1150	D079-1150C	89.5
Blunt	115	950	D079-0950B	74.0

RAMMER S56**FIGURE 315**

CATERPILLAR CAT C130 | DAINONG (DNB) DNB D70 / 90 | JCB HM760



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1100	D080-1100P	109.4
Chisel	130	1100	D080-1100C	109.4
Blunt	130	1000	D080-1000B	99.5

RAMMER S82**FIGURE 316**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D081-1200P	138.5
Chisel	140	1200	D081-1200C	138.5
Blunt	140	1050	D081-1050B	121.2

RAMMER S83**FIGURE 317**

CATERPILLAR CAT 140 / B140S / H140AS | DAINONG (DNB) DNB D110



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D082-1200P	138.5
Chisel	140	1200	D082-1200C	138.5
Blunt	140	1050	D082-1050B	121.2

RAMMER S84**FIGURE 318**

CATERPILLAR CAT 160 / B160 / H160AS | JCB HM960



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1350	D084-1350P	203.5
Chisel	160	1350	D084-1350C	203.5
Blunt	160	1200	D084-1200B	180.9

RAMMER S86**FIGURE 319**

CATERPILLAR CAT 170 / B170 / H170 | DAINONG (DNB) DNB D160



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	169	1450	D085-1450P	246.7
Chisel	169	1450	D085-1450C	246.7
Blunt	169	1300	D085-1300B	221.2

RAMMER E63**FIGURE 320**

JCB HM1150 | VOLVO HB1100

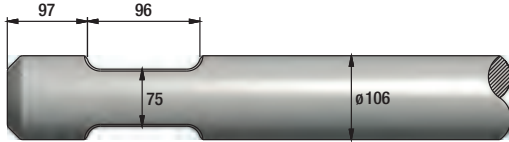


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1000	D099-1000P	77.9
Chisel	115	1000	D099-1000C	77.9

RAMMER

FIGURE 321 RAMMER E64

CATERPILLAR CAT H115S | JCB HM1050 | O&K H200



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	106	1050	D088-1050P	69.5
Point	106	1150	D088-1150P	76.1
Chisel	106	1050	D088-1050C	69.5
Chisel	106	1150	D088-1150C	76.1

FIGURE 322 RAMMER E65

JCB HM1450 | VOLVO HB1400



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	125	1050	D095-1050P	96.6
Chisel	125	1050	D095-1050C	96.6
Blunt	125	850	D095-0850B	78.2

FIGURE 323 RAMMER E66 / S55

O&K H260



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1050	D079-1050P	81.8
Point	115	1150	D079-1150C	89.5
Chisel	115	1050	D079-1050C	81.8
Chisel	115	1150	D079-1150C	89.5
Blunt	115	950	D079-0950B	74.0

FIGURE 324 RAMMER E68

CATERPILLAR CAT H130S | JCB HM1750 | O&K H310 | VOLVO HB1700



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1100	D086-1100P	109.4
Point	130	1200	D086-1200P	119.4
Chisel	130	1100	D086-1100C	109.4
Chisel	130	1200	D086-1200C	119.4
Blunt	130	900	D086-0900B	89.5

FIGURE 325 RAMMER G80

CATERPILLAR CAT H140CS / 140DS | JCB HM2350 | O&K H380 | VOLVO HB2400



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D092-1200P	138.5
Chisel	140	1200	D092-1200C	138.5
Blunt	140	1050	D092-1050B	121.2

FIGURE 326 RAMMER G88



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	142	1200	D805-1200P	142.5
Chisel	142	1200	D805-1200C	142.5
Blunt	142	1050	D805-1050B	124.7

RAMMER G90**FIGURE 327**

CATERPILLAR CAT H160CS / H160DS | JCB HM2950 | O&K H530 | VOLVO HB3200



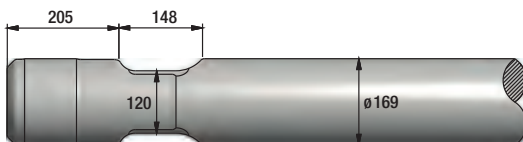
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	159	1400	D094-1400P	211.0
Chisel	159	1400	D094-1400C	211.0
Blunt	159	1250	D094-1250B	188.4

RAMMER G99**FIGURE 328**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1450	D829-1450P	235.2
Chisel	165	1450	D829-1450C	235.2
Blunt	165	1250	D829-1250B	202.8

RAMMER G100**FIGURE 329**

CATERPILLAR CAT H180S | JCB HM3850



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	169	1450	D089-1450P	246.7
Chisel	169	1450	D089-1450C	246.7
Blunt	169	1300	D089-1300B	221.2

RAMMER G110**FIGURE 330**

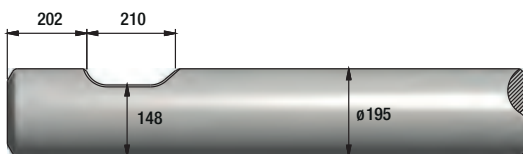
CATERPILLAR H180DS | JCB HM3950 | O&K H700 | VOLVO HB3800



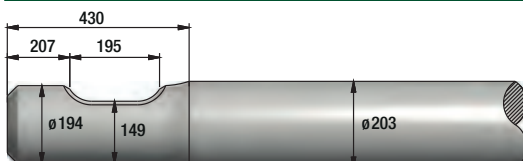
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	175	1450	D096-1450P	261.4
Chisel	175	1450	D096-1450C	261.4
Blunt	175	1300	D096-1300B	234.4

RAMMER G120**FIGURE 331**

CATERPILLAR CAT 195 / B195 / H195



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	195	1500	D093-1500P	335.8
Chisel	195	1500	D093-1500C	335.8
Blunt	195	1350	D093-1350B	302.2

RAMMER G130**FIGURE 332**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	203	1550	D097-1550P	376.1
Chisel	203	1550	D097-1550C	376.1
Blunt	203	1400	D097-1400B	339.7

FIGURE 333 RAMMER M14



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	125	1100	D800-1100P	101.2
Chisel	125	1100	D800-1100C	101.2

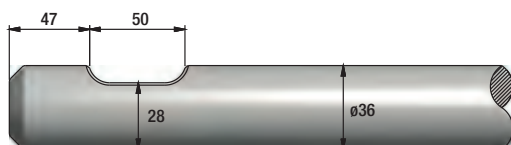
FIGURE 334 RAMMER M18



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D801-1200P	138.5
Chisel	140	1200	D801-1200C	138.5
Blunt	140	1100	D801-1100B	126.9

FIGURE 335 RAMMER BR111

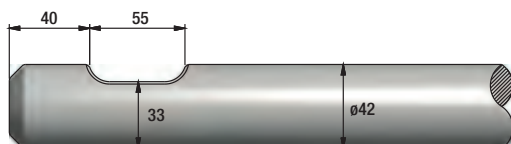
KUBOTA KXB 310 | ROBI MH7



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	36	360	D870-0360P	2.7
Chisel	36	360	D870-0360C	2.7

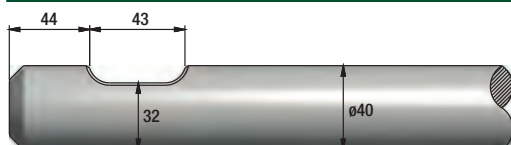
FIGURE 336 RAMMER BR222

KUBOTA KXB 360 | ROBI MH11



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	42	400	D841-0400P	4.2
Chisel	42	400	D841-0400C	4.2

FIGURE 337 RAMMER BR255



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	380	D900-0380P	3.6
Chisel	40	380	D900-0380C	3.6

FIGURE 338 RAMMER BR321

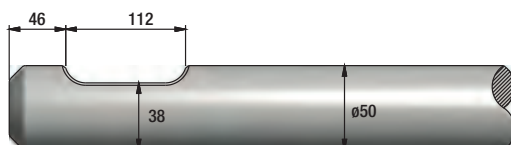
KUBOTA KXB 400 / BTB400



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	480	D071-0480P	5.7
Point	45	560	D071-0560P	6.7
Chisel	45	480	D071-0480C	5.7
Chisel	45	560	D071-0560C	6.7

FIGURE 339 RAMMER BR333

KUBOTA KXB 460 | ROBI MH15



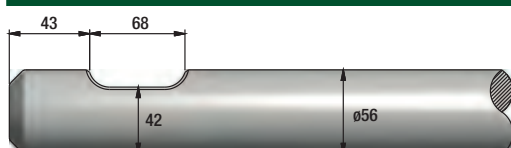
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	500	D840-0500P	7.4
Chisel	50	500	D840-0500C	7.4

RAMMER BR422**FIGURE 340**

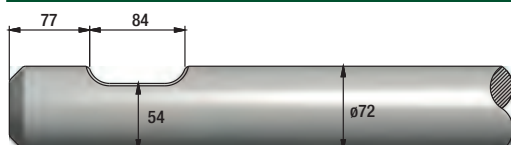
KUBOTA KXB 450



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	600	D091-0600P	8.8
Chisel	50	600	D091-0600C	8.8

RAMMER BR455**FIGURE 341**

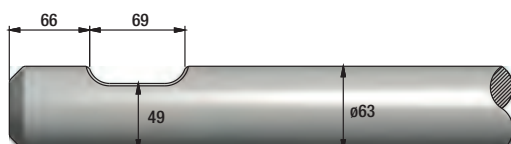
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	56	520	D902-0520P	9.6
Chisel	56	520	D902-0520C	9.6

RAMMER BR555**FIGURE 342**

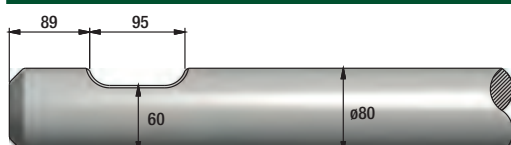
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	72	650	D842-0650P	19.8
Chisel	72	650	D842-0650C	19.8

RAMMER BR623**FIGURE 343**

KUBOTA KXB 500



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	63	680	D073-0680P	15.9
Chisel	63	680	D073-0680C	15.9

RAMMER BR777**FIGURE 344**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	750	D843-0750P	28.3
Chisel	80	750	D843-0750C	28.3

RAMMER BR825**FIGURE 345**

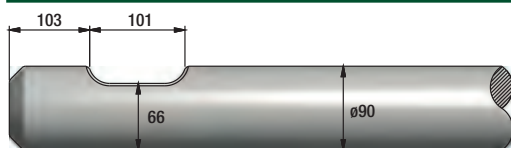
KUBOTA KXB 600



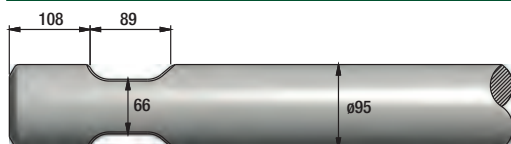
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	70	730	D075-0730P	21.1
Point	70	830	D075-0830P	23.9
Chisel	70	730	D075-0730C	21.1
Chisel	70	830	D075-0830C	23.9

RAMMER BR927**FIGURE 346**

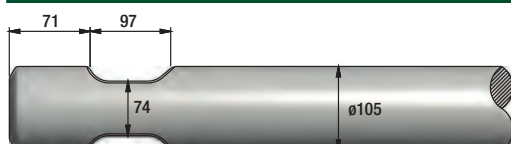
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	84	840	D087-0840P	34.9
Chisel	84	840	D087-0840C	34.9

FIGURE 347 RAMMER BR999


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	90	850	D844-0850P	40.5
Chisel	90	850	D844-0850C	40.5

FIGURE 348 RAMMER BR1129


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	900	D090-0900P	47.8
Chisel	95	900	D090-0900C	47.8

FIGURE 349 RAMMER BR1533


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	1000	D826-1000P	64.9
Chisel	105	1000	D826-1000C	64.9

FIGURE 350 RAMMER BR2063


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1000	D099-1000P	77.9
Chisel	115	1000	D099-1000C	77.9

FIGURE 351 RAMMER BR2064


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	106	1050	D088-1050P	69.5
Point	106	1150	D088-1150P	76.1
Chisel	106	1050	D088-1050C	69.5
Chisel	106	1150	D088-1150C	76.1

FIGURE 352 RAMMER BR2155

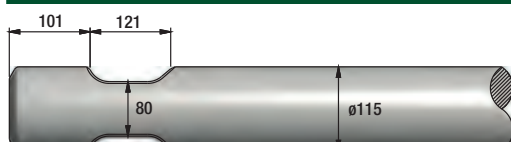

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	118	1050	D827-1050P	86.1
Chisel	118	1050	D827-1050C	86.1

FIGURE 353 RAMMER BR2214


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	125	1050	D800-1050P	96.6
Chisel	125	1050	D800-1050C	96.6

RAMMER BR2265**FIGURE 354**

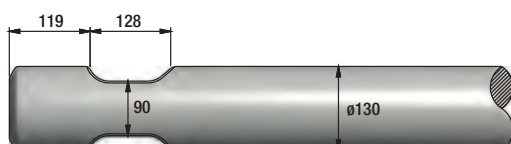
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	125	1050	D095-1050P	96.6
Chisel	125	1050	D095-1050C	96.6
Blunt	125	850	D095-0850B	78.2

RAMMER BR2266**FIGURE 355**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1050	D079-1050P	81.8
Point	115	1150	D079-1150C	89.5
Chisel	115	1050	D079-1050C	81.8
Chisel	115	1150	D079-1150C	89.5
Blunt	115	950	D079-0950B	74.0

RAMMER BR2568**FIGURE 356**

ROBI EH170



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1100	D086-1100P	109.4
Point	130	1200	D086-1200P	119.4
Chisel	130	1100	D086-1100C	109.4
Chisel	130	1200	D086-1200C	119.4
Blunt	130	900	D086-0900B	89.5

RAMMER BR2577**FIGURE 357**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1100	D828-1100P	118.0
Chisel	135	1100	D828-1100C	118.0
Blunt	135	1100	D828-1100B	118.0

RAMMER BR2518**FIGURE 358**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D801-1200P	138.5
Chisel	140	1200	D801-1200C	138.5
Blunt	140	1100	D801-1100B	126.9

RAMMER BR3088 / 3288**FIGURE 359**

ROBI EH240



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	142	1200	D805-1200P	142.5
Chisel	142	1200	D805-1200C	142.5
Blunt	142	1050	D805-1050B	124.7

FIGURE 360 RAMMER BR3890


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	159	1400	D094-1400P	211.0
Chisel	159	1400	D094-1400C	211.0
Blunt	159	1250	D094-1250B	188.4

FIGURE 361 RAMMER BR4099


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1450	D829-1450P	235.2
Chisel	165	1450	D829-1450C	235.2
Blunt	165	1250	D829-1250B	202.8

FIGURE 362 RAMMER BR4510

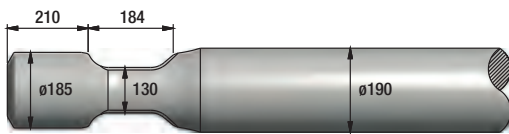
CATERPILLAR H180S / JCB HM3850



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	169	1450	D089-1450P	246.7
Chisel	169	1450	D089-1450C	246.7
Blunt	169	1300	D089-1300B	221.2

FIGURE 363 RAMMER BR4511


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	175	1450	D096-1450P	261.4
Chisel	175	1450	D096-1450C	261.4
Blunt	175	1300	D096-1300B	234.4

FIGURE 364 RAMMER BR5011


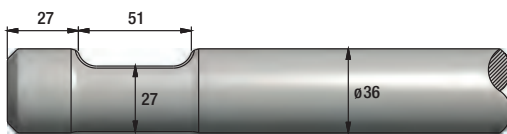
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	190	1550	D830-1500P	329.4
Chisel	190	1550	D830-1550C	329.4
Blunt	190	1400	D830-1400B	297.6

FIGURE 365 RAMMER BR7013


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	203	1700	D097-1700P	412.5
Chisel	203	1700	D097-1700C	412.5
Blunt	203	1550	D097-1550B	376.1

ROTAIR OL50

FIGURE 366

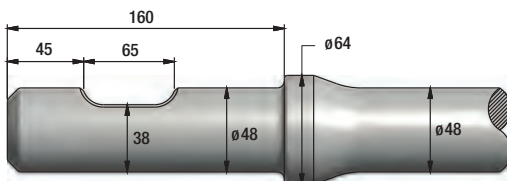


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	36	400	D138-0400P	3.1
Chisel	36	400	D138-0400C	3.1

ROTAIR OL90 (WITH COLLAR)

FIGURE 367

OMAL 80S | PEL-JOB MH90

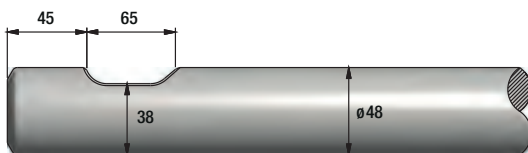


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	48	480	D468-0480P	6.5
Chisel	48	480	D468-0480C	6.5

ROTAIR OL90/95

FIGURE 368

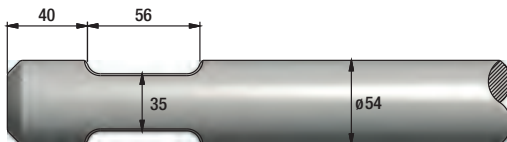
IDROMECCANICA IMI 88 | PEL-JOB MH95



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	48	480	D469-0480P	6.5
Chisel	48	480	D469-0480C	6.5

ROTAIR OL130/160

FIGURE 369

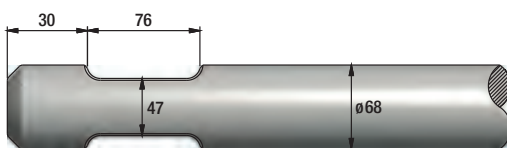


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	54	500	D470-0500P	8.6
Chisel	54	500	D470-0500C	8.6

ROTAIR OL180/260

FIGURE 370

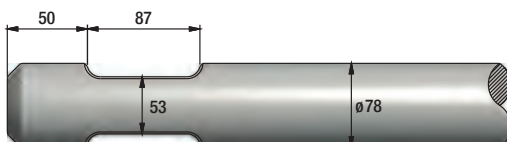
PEL-JOB MH180



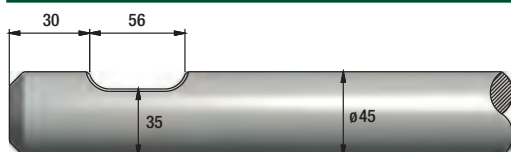
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	550	D471-0550P	15.0
Chisel	68	550	D471-0550C	15.0

ROTAIR OL250/330

FIGURE 371



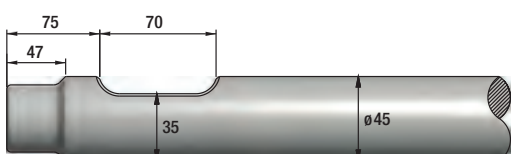
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	78	600	D472-0600P	20.9
Chisel	78	600	D472-0600C	20.9

FIGURE 372 **SOCOMEK DMS 50**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	350	D419-0350P	4.2
Chisel	45	350	D419-0350C	4.2

FIGURE 373 **SOCOMEK DMS 95**

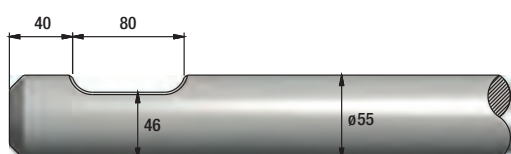
MDO 55 | DMS 95-2



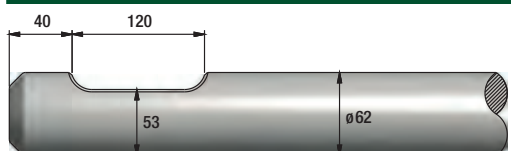
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	480	D420-0480P	5.7
Chisel	45	480	D420-0480C	5.7

FIGURE 374 **SOCOMEK DMS 160**

MDO 80



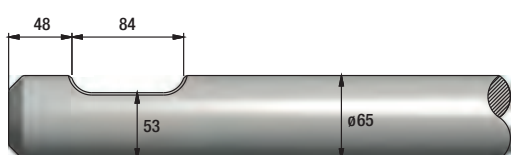
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	55	570	D436-0570P	10.2
Chisel	55	570	D436-0570C	10.2

FIGURE 375 **SOCOMEK DMS 210**

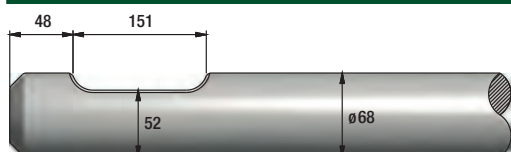
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	62	680	D437-0680P	15.4
Chisel	62	680	D437-0680C	15.4

FIGURE 376 **SOCOMEK DMS 220**

MDO 100



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	600	D422-0600P	14.9
Chisel	65	600	D422-0600C	14.9

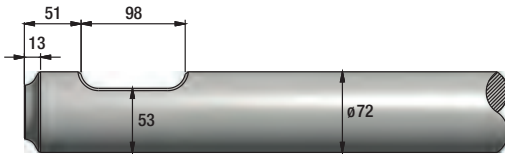
FIGURE 377 **SOCOMEK DMS 270**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	660	D435-0660P	18.0
Chisel	68	660	D435-0660C	18.0

SOCOMEK DMS 330

FIGURE 378

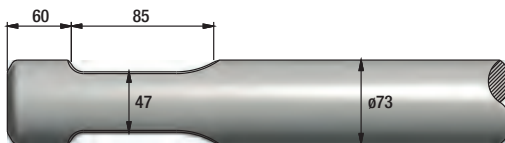
MDO 250 / 260



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	72	700	D423-0700P	21.4
Chisel	72	700	D423-0700C	21.4

SOCOMEK MDO300

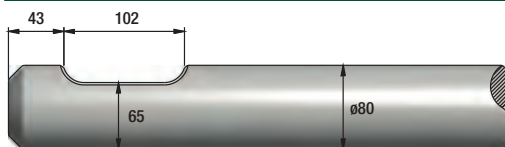
FIGURE 379



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	73	700	D358-0700P	22.0
Chisel	73	700	D358-0700C	22.0

SOCOMEK DMS 410

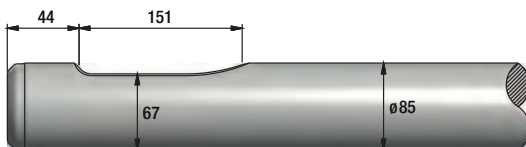
FIGURE 380



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	720	D424-0720P	27.1
Chisel	80	720	D424-0720C	27.1

SOCOMEK DMS 430 / MDO 450

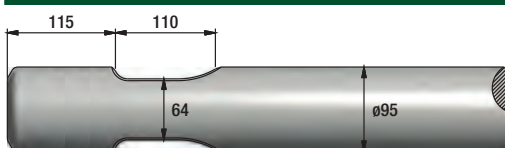
FIGURE 381



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	780	D438-0780P	33.2
Chisel	85	780	D438-0780C	33.2

SOCOMEK MDO 500

FIGURE 382

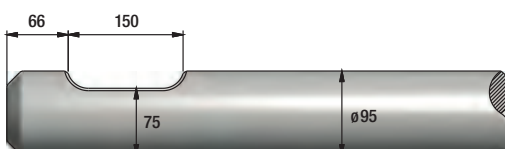


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	850	D426-0850P	45.2
Chisel	95	850	D426-0850C	45.2

SOCOMEK DMS 740

FIGURE 383

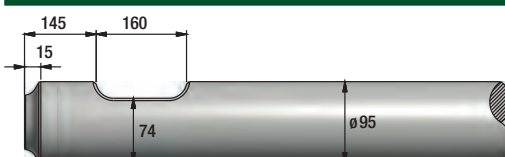
SOCOMEK DMS 680 / 850 / 910



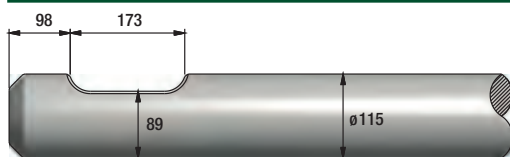
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	900	D429-0900P	47.8
Chisel	95	900	D429-0900C	47.8

SOCOMEK MDO 550

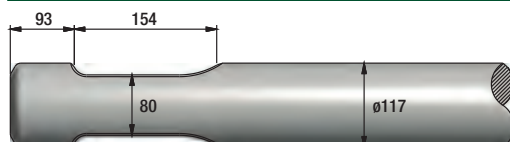
FIGURE 384



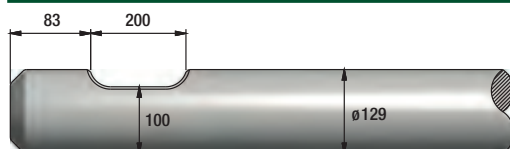
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	970	D427-0970P	51.5
Chisel	95	970	D427-0970C	51.5

FIGURE 385 **SOCOMEK MDO 750**

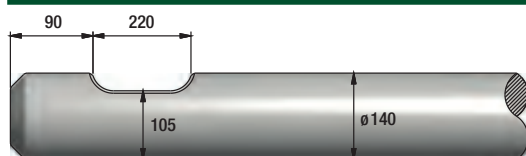
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1050	D428-1050P	81.8
Chisel	115	1050	D428-1050C	81.8

FIGURE 386 **SOCOMEK MDO 900V**

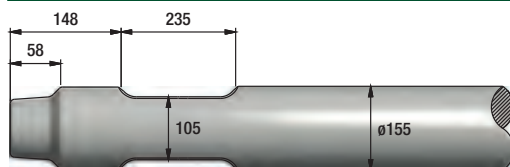
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	117	1000	D430-1000P	82.0
Chisel	117	1000	D430-1000C	82.0

FIGURE 387 **SOCOMEK MDO 1450**

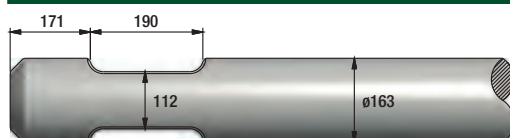
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	129	1150	D431-1150P	112.7
Chisel	129	1150	D431-1150C	112.7
Blunt	129	1050	D431-1050B	102.9

FIGURE 388 **SOCOMEK MDO 1950**

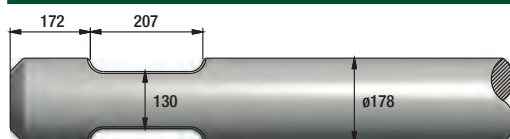
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1250	D432-1250P	144.2
Chisel	140	1250	D432-1250C	144.2
Blunt	140	1150	D432-1150B	132.7

FIGURE 389 **SOCOMEK MDO 2050**

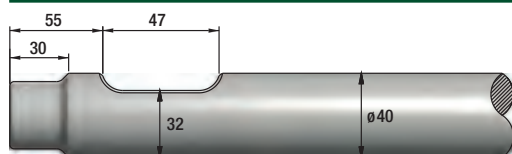
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	155	1330	D433-1330P	188.1
Chisel	155	1330	D433-1330C	188.1
Blunt	155	1200	D433-1200B	169.7

FIGURE 390 **SOCOMEK MDO 3000 / 3200**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	163	1400	D441-1400P	219.0
Chisel	163	1400	D441-1400C	219.0
Blunt	163	1250	D441-1250B	195.5

FIGURE 391 **SOCOMEK MDO 4000**

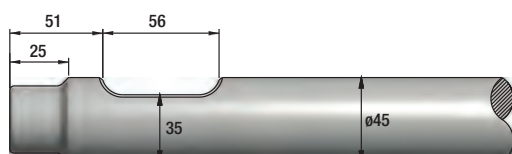
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	178	1480	D442-1480P	276.1
Chisel	178	1480	D442-1480C	276.1
Blunt	178	1300	D442-1300B	242.5

SOOSAN SB10**FIGURE 392**

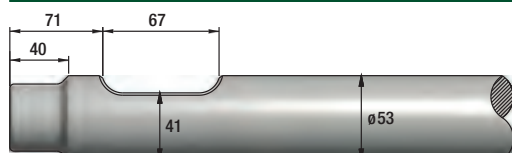
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	450	D445-0450P	4.2
Chisel	40	450	D445-0450C	4.2

SOOSAN SB20**FIGURE 393**

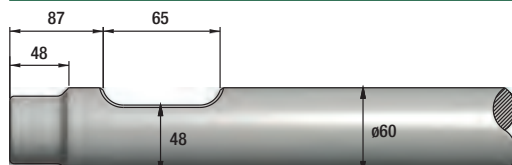
DEHACO DBH15



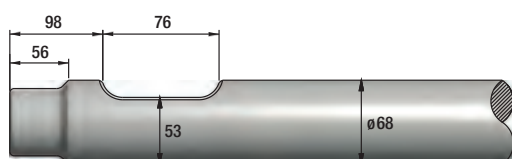
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	500	D447-0500P	6.0
Chisel	45	500	D447-0500C	6.0

SOOSAN SB30**FIGURE 394**

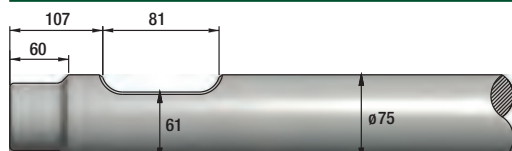
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	53	570	D448-0570P	9.4
Chisel	53	570	D448-0570P	9.4

SOOSAN SB35**FIGURE 395**

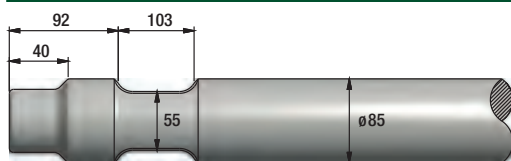
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	60	600	D444-0600P	12.7
Chisel	60	600	D444-0600C	12.7

SOOSAN SB40**FIGURE 396**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	68	710	D450-0710P	19.3
Chisel	68	710	D450-0710C	19.3

SOOSAN SB43**FIGURE 397**

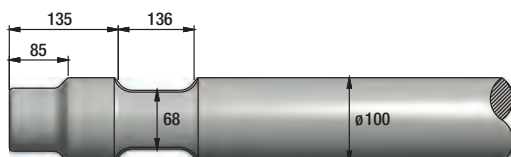
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	800	D446-0800P	26.5
Chisel	75	800	D446-0800C	26.5

FIGURE 398 SOOSAN SB45

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	85	850	D451-0850P	36.2
Chisel	85	850	D451-0850C	36.2

FIGURE 399 SOOSAN SB50

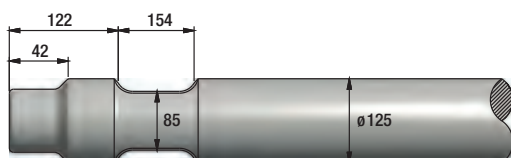
STANLEY MB30EX



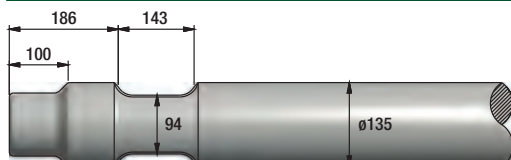
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	1000	D452-1000P	58.9
Chisel	100	1000	D452-1000C	58.9

FIGURE 400 SOOSAN SB60

STANLEY MB40EX



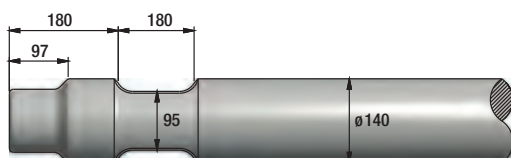
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	125	1050	D453-1050P	96.6
Chisel	125	1050	D453-1050C	96.6

FIGURE 401 SOOSAN SB70 / 71

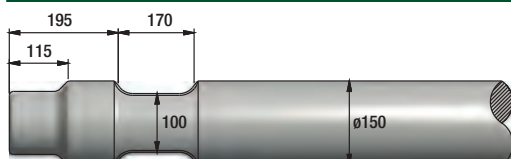
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1100	D463-1100P	118.0
Chisel	135	1100	D463-1100C	118.0

FIGURE 402 SOOSAN SB81

STANLEY MB50EX



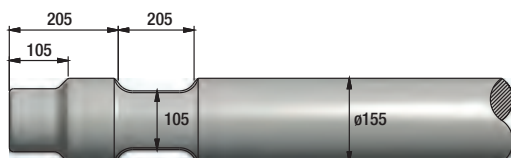
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	140	1200	D457-1200P	138.5
Chisel	140	1200	D457-1200C	138.5
Blunt	140	1100	D457-1100B	126.9

FIGURE 403 SOOSAN SB100

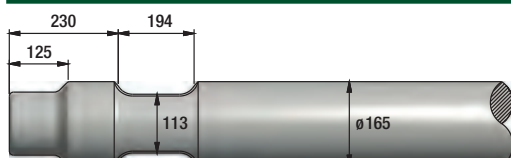
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1300	D460-1300P	172.2
Chisel	150	1300	D460-1300C	172.2
Blunt	150	1200	D460-1200B	159.0

SOOSAN SB121**FIGURE 404**

SOOSAN 120A



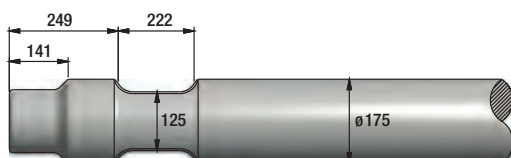
TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	155	1300	D458-1300P	183.9
Chisel	155	1300	D458-1300C	183.9
Blunt	155	1200	D458-1200B	169.7

SOOSAN SB130/140**FIGURE 405**

TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	165	1400	D449-1400P	224.4
Chisel	165	1400	D449-1400C	224.4
Blunt	165	1250	D449-1250B	200.4

SOOSAN SB151**FIGURE 406**

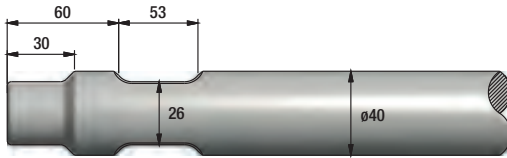
DEHACO DBH380



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	175	1600	D459-1600P	288.5
Chisel	175	1600	D459-1600C	288.5
Blunt	175	1450	D459-1450B	261.4

FIGURE 407 TOKU TNB-08M

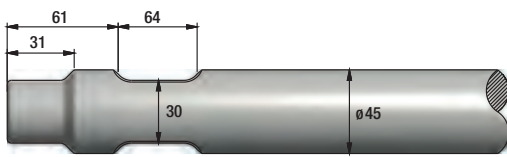
HUPPI 52 | KOMATSU JTHB08



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	40	450	D850-0450P	4.2
Chisel	40	450	D850-0450C	4.2

FIGURE 408 TOKU TNB-08E / 1M

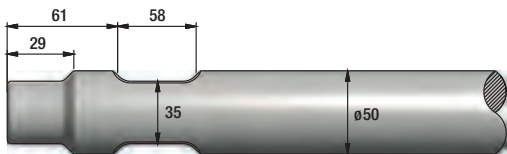
HUPPI 72 | KOMATSU JTHB10



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	470	D851-0470P	5.6
Chisel	45	470	D851-0470C	5.6

FIGURE 409 TOKU TNB-1E / 2M

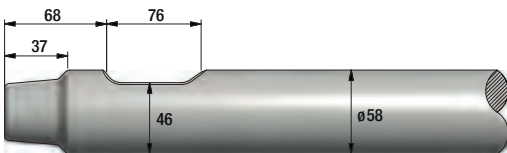
DRAGO DRH50 / 60 / 70 / 80 | INAN MAKINA (MTB) MT 15 | KOMATSU JTHB20 | MTB MT15 | TELEDYNE TB120 / 125



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	50	500	D366-0500P	7.4
Point	50	600	D366-0600P	8.8
Chisel	50	500	D366-0500C	7.4
Chisel	50	600	D366-0600C	8.8

FIGURE 410 TOKU TNB-2E/3M

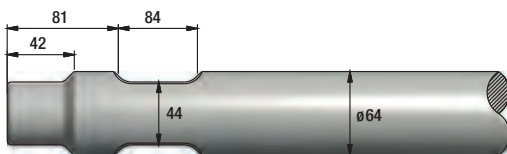
DRAGO DRH120 | HUPPI 102 | KOMATSU JTHB30 | TELEDYNE TB180 / 225



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	58	650	D367-0650P	12.9
Point	58	700	D367-0700P	13.9
Chisel	58	650	D367-0650C	12.9
Chisel	58	700	D367-0700C	13.9

FIGURE 411 TOKU TNB-3E / 4M

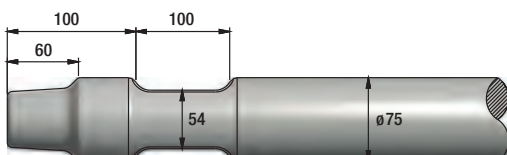
DRAGO DRH150 | KOMATSU JTHB40 | TELEDYNE TB275 / TB285



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	64	650	D373-0650P	15.7
Point	64	700	D373-0700C	16.9
Chisel	64	650	D373-0650C	15.7
Chisel	64	700	D373-0700C	16.9

FIGURE 412 TOKU TNB-4E / 5M

DRAGO DRH180 / 250 | HUPPI 302 | KOMATSU JTHB50 | TELEDYNE TB220 / 325

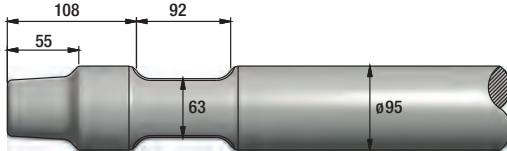


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	75	650	D368-0650P	21.5
Point	75	720	D368-0720C	23.8
Chisel	75	650	D368-0650C	21.5
Chisel	75	720	D368-0720C	23.8

TOKU TNB-6E / 7M

FIGURE 413

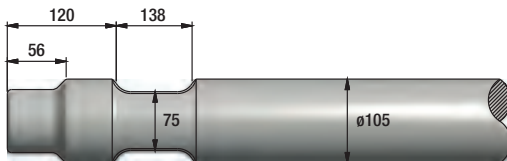
DRAGO DRH280 | HUPPI 402 | KOMATSU JTHB60 / 65 | TELEDYNE TB400 / 425 / 625



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	95	760	D369-0760P	40.4
Point	95	850	D369-0850P	45.2
Chisel	95	760	D369-0760C	40.4
Chisel	95	850	D369-0850C	45.2

TOKU TNB-7J

FIGURE 414

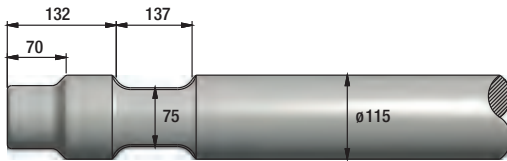


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	105	1050	D860-1050P	68.2
Chisel	105	1050	D860-1050C	68.2

TOKU TNB-7E / 10E

FIGURE 415

DRAGO DRH650S / 900 | HUPPI 902 | KOMATSU JTHB100 | TELEDYNE TB700 / 725 / 750 / 825

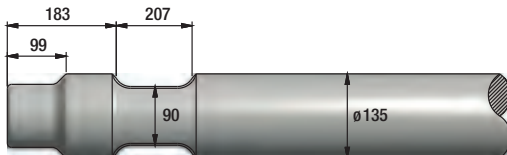


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	950	D370-0950P	74.0
Point	115	1000	D370-1000P	77.9
Chisel	115	950	D370-0950C	74.0
Chisel	115	1000	D370-1000C	77.9

TOKU TNB-14E / 16E

FIGURE 416

DRAGO DRH1150S / 1600S | TELEDYNE TB900 / 925 / 975 / 1000 / 1025

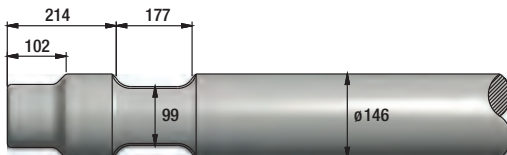


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1150	D371-1150P	123.4
Chisel	135	1150	D371-1150C	123.4
Blunt	135	1050	D371-1050B	112.7

TOKU TNB-22E / 23E

FIGURE 417

DRAGO DRH1900 | TELEDYNE TB1300 / 1425

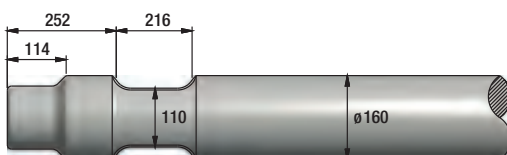


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	146	1300	D372-1300P	163.1
Chisel	146	1300	D372-1300C	163.1
Blunt	146	1150	D372-1150B	144.3

TOKU TNB-30E / 31E

FIGURE 418

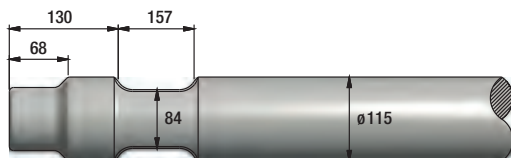
TELEDYNE TB1825 / 2075



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1500	D374-1500P	226.1
Chisel	160	1500	D374-1500C	226.1
Blunt	160	1350	D374-1350B	203.5

FIGURE 419 TOKU TNB-100

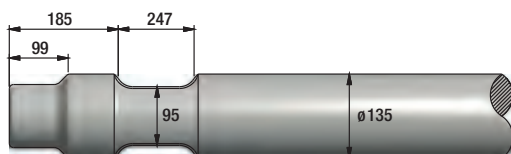
TELEDYNE TB830



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	115	1050	D852-1050P	81.8
Chisel	115	1050	D852-1050C	81.8

FIGURE 420 TOKU TNB-150

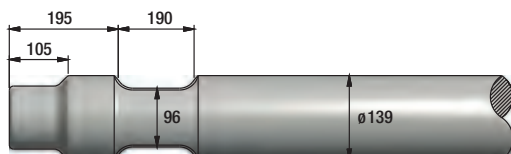
HUPPI 1900 / 1902 | KOMATSU JTHB150 | TELEDYNE TB980



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	135	1180	D853-1180P	126.6
Point	135	1270	D853-1270P	136.3
Chisel	135	1180	D853-1180C	126.6
Chisel	135	1270	D853-1270C	136.3
Blunt	135	1100	D853-1100B	118.0

FIGURE 421 TOKU TNB-190

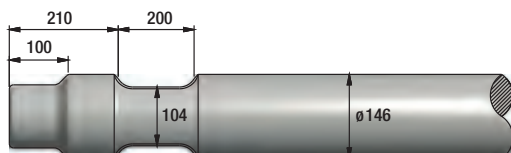
KOMATSU JTHB190



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	139	1200	D854-1200P	136.5
Chisel	139	1200	D854-1200C	136.5
Blunt	139	1100	D854-1100B	125.1

FIGURE 422 TOKU TNB-230

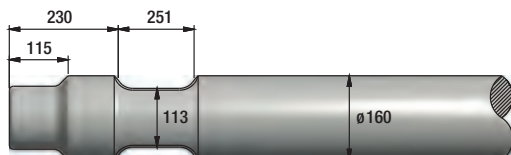
KOMATSU JTHB230 | TELEDYNE TB1680



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	146	1220	D855-1220P	153.1
Chisel	146	1220	D855-1220C	153.1
Blunt	146	1100	D855-1100B	138.0

FIGURE 423 TOKU TNB-310

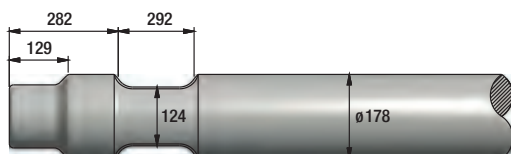
KOMATSU JTHB310 | TELEDYNE TB2080



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1350	D856-1350P	203.5
Chisel	160	1350	D856-1350C	203.5
Blunt	160	1200	D856-1200B	180.9

FIGURE 424 TOKU TNB-400

KOMATSU JTHB400 | TELEDYNE TB2580

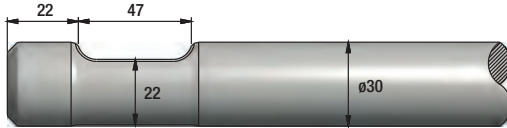


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	178	1550	D858-1550P	289.1
Chisel	178	1550	D858-1550C	289.1
Blunt	178	1400	D858-1400B	261.2

TOYO THBB31

FIGURE 425

DEHACO DHB 35 | KOMATSU JKHB31 | TAKEUCHI TKB-31



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	30	350	D480-0350P	1.9
Chisel	30	350	D480-0350C	1.9

TOYO THBB51

FIGURE 426

DEHACO DHB 55 | KOMATSU JKHB51 | TAKEUCHI TKB-51

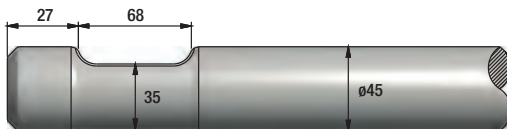


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	42	400	D481-0400P	4.2
Chisel	42	400	D481-0400C	4.2

TOYO THBB71

FIGURE 427

DEHACO DHB 75 | KOMATSU JKHB71 | TAKEUCHI TKB-71

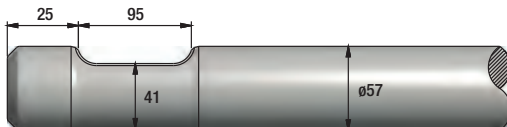


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	45	450	D482-0450P	5.4
Chisel	45	450	D482-0450C	5.4

TOYO THBB101

FIGURE 428

DEHACO DHB165 | KOMATSU JKHB101 | TAKEUCHI TKB-101

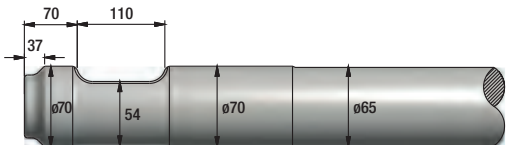


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	57	550	D483-0550P	10.5
Chisel	57	550	D483-0550C	10.5

TOYO THBB201

FIGURE 429

KOMATSU JKHB201 | TAKEUCHI TKB-201



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	65	700	D492-0700P	20.2
Chisel	65	700	D492-0700C	20.2

TOYO THBB301

FIGURE 430

DEHACO DHB 305 | KOMATSU JKHB301 | TAKEUCHI TKB-301



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	70	750	D484-0750P	21.6
Chisel	70	750	D484-0750C	21.6

FIGURE 431 TOYO THBB401

DEHACO DHB 405 | KOMATSU JKHB401 | TAKEUCHI TKB-401



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	80	900	D485-0900P	33.9
Chisel	80	900	D485-0900C	33.9

FIGURE 432 TOYO THBB801

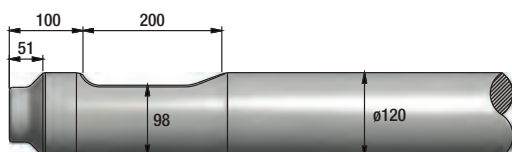
DEHACO DHB 805 | DEHACO DHB 3205 (4105) | KOMATSU JKHB801 | TAKEUCHI TKB-801



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	100	960	D486-0960P	56.5
Chisel	100	960	D486-0960C	56.5

FIGURE 433 TOYO THBB1101

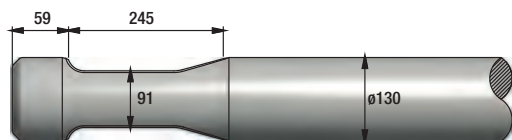
DEHACO DHB 1250 | KOMATSU JKHB1101 | TAKEUCHI TKB-1101



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	120	1050	D487-1050P	89.0
Chisel	120	1050	D487-1050C	89.0

FIGURE 434 TOYO THBB1401

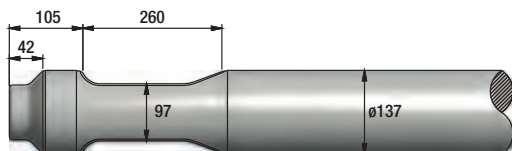
DEHACO DHB 1305 | KOMATSU JKHB1401 | TAKEUCHI TKB-1401



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	130	1050	D488-1050P	104.5
Chisel	130	1050	D488-1050C	104.5

FIGURE 435 TOYO THBB1600

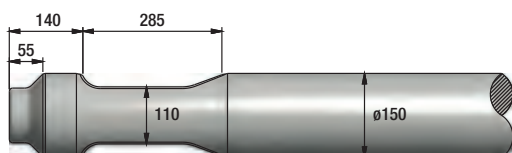
DEHACO DHB 1605 (1405) | KOMATSU JKHB 1500 / 1600 | TAKEUCHI TKB-1600



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	137	1120	D489-1120P	123.8
Chisel	137	1120	D489-1120C	123.8
Blunt	137	1020	D489-1020B	112.7

FIGURE 436 TOYO THBB2000

DEHACO DHB 2305 | KOMATSU JKHB2000 | TAKEUCHI TKB-2000

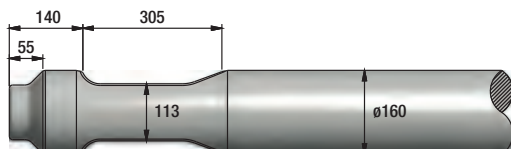


TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	150	1250	D490-1250P	165.6
Chisel	150	1250	D490-1250C	165.6
Blunt	150	1150	D490-1150B	152.3

TOYO THBB3000

FIGURE 437

KOMATSU JKHB3000 | TAKEUCHI TKB-3000



TYPE	DIAMETER (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (kgs)
Point	160	1400	D491-1400P	211.0
Chisel	160	1400	D491-1400C	211.0
Blunt	160	1250	D491-1250B	188.4

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CATALOGUE NUMBER INDEX

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PAGE
90

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D001	BOBCAT B300 MONTABERT M30 (BRP30)	191	48
D002	IDROMECCANICA IMI 85 ITALDEM K 80 MONTABERT BRH40 OCM8 OMAL 80 OMD 20 PROMOVE PMV90 / P3SH STAR SH40	183	47
D003	BOBCAT B500 MONTABERT M50 (BRP45 / 50)	192	48
D004	BOBCAT B600 / B700 MONTABERT M70 (BRP60 / 70)	193	48
D005	MONTABERT BRH75 / 76 / 90 / 91	184	47
D006	IDROMECCANICA IMI 260 ITALDEM K 270 MONTABERT BRH125 OCM25 OMAL 235 / 270 / 270S / 276 OMD 30 PROMOVE PMV290 / 390 / P12SH STAR SH280	185	47
D007	IDROMECCANICA IMI 600 / 605 ITALDEM K 550 JCB HM480 MONTABERT BRH250 / 270 OCM55 OMAL 500 / 550 OMD 50 PROMOVE PMV690 / P16SH STAR SH560	186	47
D008	EURORAM / GLOBORAM / ROCKMASTER RM115 INDECO MES / UP 1750 / 1800 / HP1800 OMAL 1300	133	36
D008	IDROMECCANICA IMI 1000 / 1010 ITALDEM K 1000 MONTABERT BRH501 / 570 OCM100 OMAL 1000 / 1050 OMD 100 PROMOVE PMV1000 / P23SH STAR SH990	187	47
D009	MONTABERT BRH620	188	47
D010	MONTABERT M900 JCB HM630 MONTABERT BRH625 / 900 PROMOVE P22 STAR SH1200 ITALDEM K 1030	189	48
D011	IDROMECCANICA IMI 1200 ITALDEM K 1300 MONTABERT BRH750 OCM130 OMD 2000 PROMOVE PMV1390 / P275H STAR SH1400	190	48
D012	JCB HM690 MONTABERT V32 (BRV32) MONTABERT V1200 / V32	210	51
D014	MONTABERT V43 (BRV43)	211	51
D016	MONTABERT V53 (BRV53)	213	52
D018	MONTABERT M125SX	195	49
D019	BOBCAT B1200 / B1400 MONTABERT M140 / 150 (BRP130 / 140 / 150)	196	49
D020	BOBCAT B850 / B950 MONTABERT M85 / 95 / 100 (BRP85 / 95 / 100)	194	48
D021	MONTABERT V45 (BRV45)	212	52
D022	MONTABERT V55 (BRV55)	214	52
D024	MONTABERT V1600	216	52
D025	MONTABERT V65 (BRV65)	215	52
D026	MONTABERT M600	198	49
D027	MONTABERT M700	199	49
D029	MONTABERT M300	197	49
D030	KRUPP (SEE ALSO ATLAS COPCO) HM45	158	42
D031	ALLIED HY-RAM 700 KRUPP (SEE ALSO ATLAS COPCO) HM50 / 55	159	42
D032	ALLIED HY-RAM 710 / 711 KRUPP (SEE ALSO ATLAS COPCO) HM60 / 61 / 62 / 75	161	42
D033	ALLIED HY-RAM 711B KRUPP (SEE ALSO ATLAS COPCO) HM85 / 90 / 90V	162	42
D035	ALLIED HY-RAM 715 KRUPP (SEE ALSO ATLAS COPCO) HM130 / 135 / 140 / 140V	163	42
D036	ALLIED HY-RAM 725 KRUPP (SEE ALSO ATLAS COPCO) HM170 / 185 / 190 / 190V	164	43
D037	ALLIED HY-RAM 77 KRUPP (SEE ALSO ATLAS COPCO) HM200	165	43
D038	ALLIED HY-RAM 730 DEMOTER (VISTIRINI) S430 KRUPP (SEE ALSO ATLAS COPCO) HM300 / 301 / 305	167	43
D040	ALLIED HY-RAM 740 KRUPP (SEE ALSO ATLAS COPCO) HM550 / 551 / 555 / 560CS / V	169	43
D041	ALLIED HY-RAM 88 KRUPP (SEE ALSO ATLAS COPCO) HM600 / 601	171	44
D042	ALLIED HY-RAM 750 KRUPP (SEE ALSO ATLAS COPCO) HM700 / 701 / 702 / 705 / 706	172	44
D043	ALLIED HY-RAM 750B CHICAGO PNEUMATIC (CP) CP1150 JCB HM1260 / HM1270Q KRUPP (SEE ALSO ATLAS COPCO) HM710 / 711 / 712 / 715 / 720CS / V	173	44
D046	ATLAS COPCO MB1600 JCB HM1560	39	19
D046	ALLIED HY-RAM 770B CHICAGO PNEUMATIC (CP) CP1550 / CP1650 / RX22 KRUPP (SEE ALSO ATLAS COPCO) HM950 / 951 / 952 / 957 / 960CS / V	175	44

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D051	ATLAS COPCO MB500	33	18
D051	ALLIED HY-RAM 735 KRUPP (SEE ALSO ATLAS COPCO) HM350 / 350V / MB500	168	43
D052	ATLAS COPCO HB7000	49	21
D052	ALLIED HY-RAM 905 KRUPP (SEE ALSO ATLAS COPCO) HM4000 / HB7000	182	46
D053	ATLAS COPCO MB1700 JCB HM1760	40	19
D053	ALLIED HY-RAM 775CS KRUPP (SEE ALSO ATLAS COPCO) HM1000V / MB1700	176	45
D054	KRUPP (SEE ALSO ATLAS COPCO) HM60V	160	42
D055	ATLAS COPCO HB2200 JCB HM2460	42	20
D055	ALLIED HY-RAM 785 CHICAGO PNEUMATIC (CP) CP2250 / RX29 / RX30 KRUPP (SEE ALSO ATLAS COPCO) HM1500MV / HB2200	177	45
D056	ALLIED HY-RAM 795CS KRUPP (SEE ALSO ATLAS COPCO) HM2000MV	178	45
D057	ATLAS COPCO HB4200 CHICAGO PNEUMATIC (CP) CP4250 / RX53 / RX54 JCB HM4160	46	20
D057	ALLIED HY-RAM 800 / 805 KRUPP (SEE ALSO ATLAS COPCO) HM2500MV / 2600 / HB4200	180	45
D058	ATLAS COPCO MB700 / 800 JCB HM860	34	18
D058	ALLIED HY-RAM 745 CHICAGO PNEUMATIC (CP) CP750 / RX14 KRUPP (SEE ALSO ATLAS COPCO) HM580 / MB700	170	44
D059	ATLAS COPCO MB1200	37	19
D059	ALLIED HY-RAM 755 KRUPP (SEE ALSO ATLAS COPCO) HM780 / MB1200	174	44
D060	ATLAS COPCO HB3000 / HB3100 CHICAGO PNEUMATIC (CP) CP3050 / RX45 / RX46 ALLIED HY-RAM 797 KRUPP (SEE ALSO ATLAS COPCO) HM2100 / 2300 / HB3000	44	20
D061	ALLIED AS380 ATLAS COPCO PB420 / 530 BERCO BB80 CHICAGO PNEUMATIC (CP) CP400 / CP550 / RX8 / RX11 SANDHURST SMC XT400	16	15
D061	KRUPP (SEE ALSO ATLAS COPCO) HM220 / 230	166	43
D062	ALLIED AS342 ATLAS COPCO PB110 BERCO BB42 CHICAGO PNEUMATIC (CP) CP100 / RX2 PROMOVE XP101 SANDHURST SMC XT70	12	15
D063	ALLIED AS352 ATLAS COPCO PB160 BERCO BB52 CHICAGO PNEUMATIC (CP) CP150 / RX3 SANDHURST SMC XT100	13	15
D064	ALLIED AS362 ATLAS COPCO PB210 BERCO BB62 CHICAGO PNEUMATIC (CP) CP200 / RX4 SANDHURST SMC XT200	14	15
D065	ALLIED AS370 ATLAS COPCO PB310 BERCO BB70 CHICAGO PNEUMATIC (CP) CP300 / RX6 SANDHURST SMC XT300	15	15
D066	ATLAS COPCO HB5800	48	21
D066	KRUPP (SEE ALSO ATLAS COPCO) HM3000 / HB5800	181	45
D067	ATLAS COPCO MB1000 BROKK 800 JCB HM3060	36	19
D070	CATERPILLAR CAT H45 / H45FT KUBOTA KXB 300 / 350 RAMMER / SANDVIK S18 / PICCOLO VOLVO HB80	303	67
D071	BOBCAT 1750 CATERPILLAR CAT H50 / H50FT JCB HM160 O&K H32 RAMMER / SANDVIK S21 VOLVO HB130	304	67
D071	KUBOTA KXB 400 / BTB400 RAMMER / SANDVIK BR321	338	72
D073	JCB HM260 O&K H65 RAMMER / SANDVIK S23 ROBI BH30 VOLVO HB300	306	67
D073	KUBOTA KXB 500 RAMMER / SANDVIK BR623	343	73
D074	CATERPILLAR CAT H70 / H70FT RAMMER / SANDVIK S24	307	67
D075	JCB HM360 O&K H85 RAMMER / SANDVIK S25 ROBI BH50 VOLVO HB440	308	67
D075	KUBOTA KXB 600 RAMMER / SANDVIK BR825	345	73
D076	CATERPILLAR CAT H90 / H90FT DAINONG (DNB) DNB D50 JCB HM460 RAMMER / SANDVIK S26	309	68
D077	CATERPILLAR CAT 110 / B110 RAMMER / SANDVIK S52	312	68
D078	CATERPILLAR CAT 115C / 116 DAINONG (DNB) DNB D60 JCB HM560 RAMMER / SANDVIK S54	313	68
D079	CATERPILLAR CAT H120S JCB HM660 JCB HM1350 RAMMER / SANDVIK S55 / E66	314	68

CATALOGUE NUMBER INDEX

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D079	O&K H260 RAMMER / SANDVIK E66 / S55	323	70
D079	RAMMER / SANDVIK BR2266	355	75
D080	CATERPILLAR CAT C130 DAINONG (DNB) DNB D70 / 90 JCB HM760 RAMMER / SANDVIK S56	315	69
D081	RAMMER / SANDVIK S82	316	69
D082	CATERPILLAR CAT 140 / B140S / H140AS DAINONG (DNB) DNB D110 RAMMER / SANDVIK S83	317	69
D084	CATERPILLAR CAT 160 / B160 / H160AS JCB HM960 RAMMER / SANDVIK S84	318	69
D085	CATERPILLAR CAT 170 / B170 / H170 DAINONG (DNB) DNB D160 RAMMER / SANDVIK S86	319	69
D086	CATERPILLAR CAT H130S JCB HM1750 O&K H310 RAMMER / SANDVIK E68 VOLVO HB1700	324	70
D086	ROBI EH170 RAMMER BR2568 / E68	356	75
D087	JCB HM550 O&K H120 RAMMER / SANDVIK S27 VOLVO HB600	310	68
D087	RAMMER / SANDVIK BR927	346	73
D088	CATERPILLAR CAT H115S JCB HM1050 &K H200 RAMMER / SANDVIK E64	321	70
D088	RAMMER / SANDVIK BR2064	351	74
D089	CATERPILLAR CAT H180S JCB HM3850 RAMMER / SANDVIK G100	329	71
D089	RAMMER / SANDVIK BR4510	362	76
D090	CATERPILLAR CAT H100 / H100FT JCB HM850 O&K H150 RAMMER / SANDVIK S29 ROBI BH80 VOLVO HB800	311	68
D090	RAMMER / SANDVIK BR1129	348	74
D091	CATERPILLAR CAT H63 / H63FT O&K H45 RAMMER / SANDVIK S22 VOLVO HB200	305	67
D091	KUBOTA KXB 450 RAMMER / SANDVIK BR422	340	73
D092	CATERPILLAR CAT H140CS / 140DS JCB HM2350 O&K H380 RAMMER / SANDVIK G80 VOLVO HB2400	325	70
D093	CATERPILLAR CAT 195 / B195 / H195 RAMMER / SANDVIK G120	331	71
D094	CATERPILLAR CAT H160CS.H160DS JCB HM2950 O&K H530 RAMMER / SANDVIK G90 VOLVO HB3200	327	71
D094	RAMMER / SANDVIK BR3890	360	76
D095	JCB HM1450 RAMMER / SANDVIK E65 VOLVO HB1400	322	70
D095	RAMMER / SANDVIK BR2265	354	75
D096	RAMMER / SANDVIK BR4511 / G110	363	76
D097	RAMMER / SANDVIK G130	332	71
D097	RAMMER / SANDVIK BR7013	365	76
D099	JCB HM1150 RAMMER / SANDVIK E63 VOLVO HB1100	320	69
D099	RAMMER / SANDVIK BR2063	350	74
D101	NPK H-06X	280	62
D102	ARROWHEAD 2T NPK H-08X	281	63
D103	NPK H-1XA	282	63
D104	ARROWHEAD 4T NPK H-2XA / E	283	63
D105	NPK H-2X / H-3XA / E	284	63
D106	NPK H-4X	285	63
D109	NPK H-6XA	286	63
D110	NPK H-7XA	287	63
D111	NPK H-8XA	288	64
D114	NPK GH9	264	60
D114	NPK H-10XB / E / GH9	289	64
D115	NPK H-12X / E	290	64
D117	NPK H-16X / E	291	64
D118	NPK H-20X / E	292	64
D122	NPK E-12X NPK E-212	270	61
D123	NPK E-15X NPK E-215	272	61
D125	NPK E-18X NPK E-218	274	62
D126	NPK E-213	271	61
D127	NPK E-220	275	62

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D128	NPK E-24X NPK E-224	276	62
D129	NPK E-235	278	62
D132	NPK E-240A	279	62
D134	NPK E106	253	59
D135	NPK E-210A	269	61
D136	NPK E-216	273	61
D137	NPK E-225	277	62
D138	FURUKAWA F1 / FX15 KENT KF1	81	28
D138	FURUKAWA HB1G KENT KHB1G	96	30
D138	ROTAIR OL50	366	77
D139	DAINONG (DNB) DNB K20 FURUKAWA F2 KENT KF2	82	28
D139	FURUKAWA HB2G KENT KHB2G	97	30
D140	FURUKAWA F3 / FX35 KENT KF3	83	28
D142	DAINONG (DNB) DNB K25 DEMOTER (VISTIRINI) DM160RE FURUKAWA HB3G KENT KHB3G	98	30
D144	DAINONG (DNB) DNB K30 FURUKAWA HB5G KENT KHB5G	99	31
D146	FURUKAWA HB8G KENT KHB8G	100	31
D148	DAINONG (DNB) DNB K50 FURUKAWA HB10G KENT KHB10G	101	31
D149	DEHACO DHB1500S / DHB120 FURUKAWA HB15G KENT KHB15G	102	31
D151	DAINONG (DNB) DNB K80 / 100 DEHACO DHB2000S FURUKAWA HB20G KENT KHB20G	103	31
D154	DAINONG (DNB) DNB K120 DEHACO DHB3600S FURUKAWA HB30G KENT KHB30G	104	31
D155	FURUKAWA HB40G KENT KHB40G	105	32
D160	FURUKAWA F4 KENT KF4	84	28
D161	DEMOTER (VISTIRINI) DM240RE FURUKAWA F5 KENT KF5	85	28
D162	FURUKAWA F6 KENT KF6	86	28
D163	FURUKAWA F9 KENT KF9	87	29
D164	FURUKAWA F12 KENT KF12	88	29
D165	FURUKAWA F19 KENT KF19	89	29
D166	FURUKAWA F20 / F22 KENT KF22	90	29
D167	FURUKAWA F27 KENT KF27	91	29
D168	FURUKAWA F30 / F35 KENT KF35	92	29
D169	FURUKAWA F45 KENT KF45	93	30
D171	EURORAM / GLOBORAM / ROCKMASTER RM48 INDECO MES / UP 180 / 181 / 200P / HP200	124	35
D173	EURORAM / GLOBORAM / ROCKMASTER RM56 INDECO MES / UP 300 / 301 / 350P / 351P / HP300 / 350	125	35
D174	EURORAM / GLOBORAM / ROCKMASTER RM65 INDECO HB5 INDECO MES / UP 451 / 452 / 462P / 521 / 550 / HP500	126	35
D175	EURORAM / GLOBORAM / ROCKMASTER RM80 INDECO HB8	128	35
D176	EURORAM / GLOBORAM / ROCKMASTER RM85 / 90 INDECO HB12 INDECO MES / UP 1200.HP1200	131	36
D177	INDECO MES / UP 601 / 621 / 650P / HP700	129	36
D178	EURORAM / GLOBORAM / ROCKMASTER RM110 INDECO HB19 INDECO MES / UP 1500 / HP1500	132	36
D180	EURORAM / GLOBORAM / ROCKMASTER RM130 INDECO MES / UP 2500 / HP2500	135	37
D181	EURORAM / GLOBORAM / ROCKMASTER RM120 INDECO HB27 INDECO MES / UP 2000 / HP2000	134	36
D182	EURORAM / GLOBORAM / ROCKMASTER RM145 INDECO MES / UP 3500 / HP3500	138	37
D183	EURORAM / GLOBORAM / ROCKMASTER RM160 INDECO MES / UP 5000 / HP5000	140	37
D185	EURORAM / GLOBORAM / ROCKMASTER RM140 INDECO MES / UP 3000 / HP3000	137	37
D186	EURORAM / GLOBORAM / ROCKMASTER RM45 INDECO MES / UP 121 / 150P / HP150	123	35
D187	EURORAM / GLOBORAM / ROCKMASTER RM180 INDECO MES / UP 7000 / HP7000	141	38
D188	EURORAM / GLOBORAM / ROCKMASTER RM195 INDECO MES / UP 8500 / HP9000	142	38

CATALOGUE NUMBER INDEX

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PAGE
92

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D190	EURORAM / GLOBORAM / ROCKMASTER RM75 INDECO MES / UP 553P / HP600	127	35
D191	EURORAM / GLOBORAM / ROCKMASTER RM150 INDECO MES / UP 4000 / 4001 / HP4000	139	37
D192	EURORAM / GLOBORAM / ROCKMASTER RM88 INDECO UP 900 / HP900	130	36
D194	INDECO HP2750	136	37
D221	ATLAS COPCO SB52 BROKK 50	18	16
D222	ATLAS COPCO SB100 / SBC 115 ATLAS COPCO TEX 100H / 75H KUBOTA KM100	19	16
D224	ATLAS COPCO TEX250H	25	17
D224	ATLAS COPCO TEX 250H SCALER	26	17
D226	ATLAS COPCO SB702 ATLAS COPCO HBC 1100 / 1700 ATLAS COPCO TEX 600H / 700H / 900H	29	17
D227	ATLAS COPCO HBC 2500 ATLAS COPCO TEX 1400H	30	18
D228	ATLAS COPCO HBC 4000 ATLAS COPCO TEX 1800H / 2000H CHICAGO PNEUMATIC (CP) CP2350	31	18
D229	ATLAS COPCO SB200 / SB202 / SBC 410 ATLAS COPCO TEX 180H BROKK 160 / 180 JCB HM265 KUBOTA KM200	22	16
D230	ATLAS COPCO SB150 / SB152 SBC 255 ATLAS COPCO TEX 110H BROKK90 JCB HM165 KUBOTA KM150	21	16
D231	ATLAS COPCO SB450 / SBC 800 / 850 / SB452 ATLAS COPCO TEX 400H / HS BROKK 330 JCB HM495 KUBOTA KM450	27	17
D232	ATLAS COPCO SB300 / SB302 / SBC 610 / SBC650 BROKK 250 / 260 JCB HM385 / 386Q KUBOTA KM300	23	16
D233	ATLAS COPCO SB50 / SBC 60 ATLAS COPCO TEX 30 BROKK 40 KUBOTA KM10	17	15
D234	ATLAS COPCO HBC 6000	32	18
D235	ATLAS COPCO SB300 SCALER	24	17
D237	ATLAS COPCO SB102	20	16
D238	ATLAS COPCO SB552 BROKK 400	28	17
D240	ATLAS COPCO HB2500 CHICAGO PNEUMATIC (CP) RX38	43	20
D242	ATLAS COPCO MB1500	38	19
D243	ATLAS COPCO MB750	35	18
D244	ATLAS COPCO HB3600	45	20
D245	ATLAS COPCO HB4700	47	21
D248	ATLAS COPCO HB2000	41	19
D331	MSB SAGA 20II	226	55
D332	MSB SAGA 40II	228	55
D333	MSB SAGA 50	229	55
D334	MSB SAGA 80 / 81	230	55
D335	MSB SAGA 100	231	55
D336	MSB SAGA 120	232	55
D337	MSB SAGA 180	233	56
D338	MSB SAGA 200II / 220	234	56
D339	MSB SAGA 300	235	56
D358	SOCOMECS MDO 300	379	79
D366	DRAGO DRH50 / 60 / 70 / 80 INAN MAKINA (MTB) MT 15 KOMATSU JTHB20 MTB MT15 TELEDYNE TB120 / 125 TOKU (BTI) TNB 1E / 2M	409	84
D367	DRAGO DRH120 HUPPI 102 KOMATSU JTHB30 TELEDYNE TB180 / 225 TOKU (BTI) TNB 2E / 3M	410	84
D368	DRAGO DRH180 / 250 HUPPI 302 KOMATSU JTHB50 TELEDYNE TB220 / 325 TOKU (BTI) TNB 4E / 5M	412	84
D369	DRAGO DRH280 HUPPI 402 KOMATSU JTHB60 / 65 TELEDYNE TB400 / 425 / 625 TOKU (BTI) TNB 6E / 6.5E / 7M	413	85
D370	DRAGO DRH650S / 900 HUPPI 902 KOMATSU JTHB100 TELEDYNE TB700 / 725 / 750 / 825 TOKU (BTI) TNB 7E / 10E	415	85
D371	DRAGO DRH1150S / 1600S TELEDYNE TB900 / 925 / 975 / 1000 / 1025 TOKU (BTI) TNB 14E / 16E	416	85
D372	DRAGO DRH1900 TELEDYNE TB1300 / 1425 TOKU (BTI) TNB 22E / 23E	417	85

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D373	DRAGO DRH150 KOMATSU JTHB40 TELEDYNE TB275 / TB285 TOKU (BTI) TNB 3E / 4M	411	84
D374	TELEDYNE TB1825 / 2075 TOKU (BTI) TNB-31E / 30E	418	85
D400	ITALDEM GK 85 / 86 STAR SH91	143	39
D401	ITALDEM GK 160 / 161 STAR SH151 / 161	144	39
D403	ITALDEM GK 290 / 291 STAR SH281	146	39
D404	ITALDEM GK 360 / 361	147	39
D405	ITALDEM GK 600 / 610 / 620 STAR SH561 / 562	148	39
D406	ITALDEM GK 950 / 960 STAR SH991	149	40
D407	ITALDEM GK 1350 / 1351 STAR SH1401	151	40
D408	ITALDEM GK 1600	153	40
D409	ITALDEM GK 2400	155	41
D410	ITALDEM GK 3400 / 3500	156	41
D411	ITALDEM GK 211 STAR SH200	145	39
D412	ITALDEM GK 1351S STAR SH1402	152	40
D413	ITALDEM GK 3800	157	41
D414	ITALDEM GK 1800	154	40
D415	ITALDEM GK 1050 STAR SH992	150	40
D419	SOCOMECS DMS 50	372	77
D420	SOCOMECS DMS 95 / 95-2 / MDO 55	373	78
D422	SOCOMECS DMS 220 / MDO 100	376	78
D423	SOCOMECS DMS 310 / 330 / MDO 250 / 260	378	78
D424	SOCOMECS DMS 410	380	79
D426	SOCOMECS MDO 500	382	79
D427	SOCOMECS MDO 550	384	79
D428	SOCOMECS MDO 750	385	79
D429	SOCOMECS DMS 680 / 740 / 850 / 910	383	79
D430	SOCOMECS MDO 900V	386	80
D431	SOCOMECS MDO 1450	387	80
D432	SOCOMECS MDO 1950	388	80
D433	SOCOMECS MDO 2050	389	80
D435	SOCOMECS DMS 270	377	78
D436	SOCOMECS DMS 150 / 160 / 165 MDO 80	374	78
D437	SOCOMECS DMS 210	375	78
D438	SOCOMECS DMS 430 / MDO 450	381	79
D441	SOCOMECS MDO 3200 / MDO 3000	390	80
D442	SOCOMECS MDO 4000	391	80
D444	SOOSAN SB35	395	81
D445	SOOSAN SB10	392	81
D446	SOOSAN SB43	397	81
D447	DEHACO DBH15 SOOSAN SB20	393	81
D448	SOOSAN SB30	394	81
D449	SOOSAN SB130 / 140	405	83
D450	SOOSAN SB40 / SB4	396	81
D451	SOOSAN SB45 / SB5	398	82
D452	SOOSAN SB50	399	82
D453	SOOSAN SB60	400	82
D457	SOOSAN SB81	402	82
D458	SOOSAN SB121 / 120A	404	83
D459	DEHACO DBH380 SOOSAN SB151	406	83
D460	SOOSAN SB100	403	82
D463	SOOSAN SB70 / SB71	401	82
D468	OMAL 80S PEL-JOB MH90 ROTAIR OL90 (WITH COLLAR)	367	77
D469	IDROMECCANICA IMI 88 PEL-JOB MH95 ROTAIR OL90 / 95	368	77
D470	ROTAIR OL130 / 160	369	77
D471	PEL-JOB MH180 ROTAIR OL180 / 260	370	77

CATALOGUE NUMBER INDEX

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D472	ROTAIR OL 250 / 330	371	77
D480	DEHACO DHB 35 KOMATSU JKHB31 TAKEUCHI TKB-31 TOYO THBB 31	425	87
D481	DEHACO DHB 55 KOMATSU JKHB51 TAKEUCHI TKB-51 TOYO THBB 51	426	87
D482	DEHACO DHB 75 KOMATSU JKHB71 TAKEUCHI TKB-71 TOYO THBB 71	427	87
D483	DEHACO DHB165 KOMATSU JKHB101 TAKEUCHI TKB-101 TOYO THBB 101	428	87
D484	DEHACO DHB 305 KOMATSU JKHB301 TAKEUCHI TKB-301 TOYO THBB 301	430	87
D485	DEHACO DHB 405 KOMATSU JKHB401 TAKEUCHI TKB-401 TOYO THBB 401	431	88
D486	DEHACO DHB 805 DEHACO DHB 3205 (4105) KOMATSU JKHB801 TAKEUCHI TKB-801 TOYO THBB 801	432	88
D487	DEHACO DHB 1250 KOMATSU JKHB1101 TAKEUCHI TKB-1101 TOYO THBB 1101	433	88
D488	DEHACO DHB 1305 KOMATSU JKHB1401 TAKEUCHI TKB-1401 TOYO THBB 1401	434	88
D489	DEHACO DHB 1605 (1405) KOMATSU JKHB1600 TAKEUCHI TKB-1600 TOYO THBB 1600	435	88
D490	DEHACO DHB 2305 KOMATSU JKHB2000 TAKEUCHI TKB-2000 TOYO THBB 2000	436	88
D491	KOMATSU JKHB3000 TAKEUCHI TKB-3000 TOYO THBB 3000	437	89
D492	JKHB (KOMATSU) JKHB 201 TAKEUCHI TKB-201 TOYO THBB-201	429	87
D501	ALLIED AR70B INAN MAKINA (MTB) MT 25 MSB MS220 / MS230H MTB MT25 WIMMER W-220	241	57
D502	ALLIED AR75B INAN MAKINA (MTB) MT 35 / 36 MSB MS225 / MS250H MTB MT35 / 36	242	57
D503	ALLIED AR85 INAN MAKINA (MTB) MT 45 MSB MS300H MTB MT45 WIMMER W-330	243	57
D504	ALLIED AR95 MSB MS400H WIMMER W-440	244	57
D505	INAN MAKINA (MTB) MT 120 MSB MS500H / MS520H MTB MT120 WIMMER W-550	246	57
D507	ALLIED AR130B INAN MAKINA (MTB) MT 170 MSB MS600 MTB MT170 WIMMER W-660	248	58
D509	ALLIED AR140 INAN MAKINA (MTB) MT 210 MSB MS700 MTB MT210 WIMMER W-770	249	58
D511	ALLIED AR160C INAN MAKINA (MTB) MT 275 MSB MS800 MS810H MTB MT270 / 275 WIMMER W-880	250	58
D512	INAN MAKINA (MTB) MT 360 MSB MS900 MTB MT360 WIMMER W-990	251	58
D516	ALLIED AR120 INAN MAKINA (MTB) MT 150 MSB MS550H MTB MT150 WIMMER W-600	247	58
D517	MSB MS450H / MS460H	245	57
D518	MSB SAGA 30II	227	55
D523	MSB MS 35AT	237	56
D524	MSB MS 45AT	238	56
D526	MSB MS 75AT	239	56
D527	MSB MS1000H	252	58
D528	MSB SAGA 350	236	56
D529	MSB MS200	240	57
D550	HANWOO / RHINO / MAGNUM RHB 301-V / 302-V	111	33
D551	HANWOO / RHINO / MAGNUM RHB 302 / 303-V	112	33
D552	HANWOO / RHINO / MAGNUM RHB 303 / 303-VP	113	33
D553	HANWOO / RHINO / MAGNUM RHB 305 / 305-V	114	33
D554	HANWOO / RHINO / MAGNUM RHB 308	116	33
D555	HANWOO / RHINO / MAGNUM RHB 313-V / 314	118	34
D556	HANWOO / RHINO / MAGNUM RHB 322-2 / 323 / 325	120	34
D557	HANWOO / RHINO / MAGNUM RHB 328-2 / 330	121	34
D559	HANWOO / RHINO / MAGNUM RHB 340	122	34
D560	HANWOO / RHINO / MAGNUM RHB 320	119	34
D562	HANWOO / RHINO / MAGNUM RHB 306	115	33
D564	HANWOO / RHINO / MAGNUM RHB 308-2 / 309	117	34
D617	ARROWHEAD S10	1	13

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D618	ARROWHEAD 10T / S100	8	14
D620	ARROWHEAD S20	2	13
D621	ARROWHEAD S30 MK1 (WITH COLLAR)	3	13
D622	ARROWHEAD S40	5	13
D623	ARROWHEAD S50	6	13
D624	ARROWHEAD S60	7	13
D626	ARROWHEAD S180	10	14
D627	ARROWHEAD S230	11	14
D628	ARROWHEAD S30 MK3 (WITHOUT COLLAR)	4	13
D629	ARROWHEAD S130	9	14
D630	NPK E-200 / GH06	254	59
D631	NPK E-201 / GH07	255	59
D632	NPK E-202 / GH1	256	59
D633	NPK E-203 / GH2	257	59
D634	NPK E-204 / GH3	258	59
D635	NPK E-205 / GH4	259	59
D636	NPK E-207 / GH6	261	60
D637	NPK E-208	262	60
D638	NPK E-206	260	60
D639	NPK GH10	265	60
D640	NPK GH12	266	60
D641	NPK GH15	267	61
D642	NPK GH18	268	61
D643	NPK GH7	263	60
D668	FURUKAWA FXJ / FX175	107	32
D670	FURUKAWA F70 KENT KF70	94	30
D671	FURUKAWA F100 FURUKAWA HB100G KENT KF100	95	30
D687	FURUKAWA FXJ / FX125	106	32
D689	FURUKAWA FXJ / FX275	108	32
D690	FURUKAWA FXJ / FX375	109	32
D691	FURUKAWA FXJ / FX475	110	32
D700	BOBCAT B580 MONTABERT SC12	203	50
D701	MONTABERT V2500	218	53
D703	BOBCAT B680 MONTABERT SC16	204	50
D704	BOBCAT B880 MONTABERT SC22	205	50
D705	BOBCAT B980 MONTABERT SC28	206	51
D706	BOBCAT B1180 MONTABERT SC36	207	51
D707	BOBCAT B380 MONTABERT SC08	202	50
D708	BOBCAT B280 MONTABERT SC06	201	50
D709	MONTABERT V1800	217	52
D710	MONTABERT SC42	208	51
D711	MONTABERT SC50	209	51
D712	DOOSAN DXB100H MONTABERT XL1000	221	53
D713	DOOSAN DXB130H MONTABERT XL1300	222	53
D714	DOOSAN DXB170H MONTABERT XL1700	223	53
D715	DOOSAN DXB190H MONTABERT XL1900	224	54
D716	DOOSAN DXB260H MONTABERT XL2600	225	54
D717	MONTABERT V3500	219	53
D718	MONTABERT V4500	220	53
D776	PROMOVE XP100	293	65
D777	PROMOVE XP150	294	65
D778	PROMOVE XP250	295	65
D779	PROMOVE XP300 / XP400 / XP450	296	65
D780	PROMOVE XP550 / XP551	297	65
D781	PROMOVE XP800	298	65
D782	PROMOVE XP1200	299	65

CATALOGUE NUMBER INDEX

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PAGE
94

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D783	PROMOVE XP1500	300	66
D785	PROMOVE XP2400	301	66
D787	PROMOVE XP4500	302	66
D800	RAMMER / SANDVIK M14 / BR 2214	333	72
D800	RAMMER / SANDVIK BR2214	353	74
D801	RAMMER / SANDVIK M18 / BR2518	334	72
D805	RAMMER / SANDVIK G88	326	70
D805	RAMMER / SANDVIK BR3088 / 3288 ROBI EH240	359	75
D826	RAMMER / SANDVIK BR1533	349	74
D827	RAMMER / SANDVIK BR2155	352	74
D828	RAMMER / SANDVIK BR2577	357	75
D829	RAMMER / SANDVIK G99	328	71
D829	RAMMER / SANDVIK BR4099	361	76
D830	RAMMER / SANDVIK BR5011	364	76
D840	KUBOTA KXB 460 RAMMER / SANDVIK BR333 ROBI MH15	339	72
D841	KUBOTA KXB 360 RAMMER / SANDVIK BR222 ROBI MH11	336	72
D842	RAMMER / SANDVIK BR555	342	73
D843	RAMMER / SANDVIK BR777	344	73
D844	RAMMER / SANDVIK BR999	347	74
D850	HUPPI 52 KOMATSU JTHB08 TOKU (BTI) TNB 08M	407	84
D851	HUPPI 72 KOMATSU JTHB10 TOKU (BTI) TNB 08E / 1M	408	84
D852	TELEDYNE TB830 TOKU (BTI) TNB 100	419	86
D853	HUPPI 1900 / 1902 KOMATSU JTHB150 TELEDYNE TB980 TOKU (BTI) TNB 150 / 151	420	86
D854	KOMATSU JTHB190 TOKU (BTI) TNB 190	421	86
D855	KOMATSU JTHB230 TELEDYNE TB1680 TOKU (BTI) TNB 230	422	86
D856	KOMATSU JTHB310 TELEDYNE TB2080 TOKU (BTI) TNB 310	423	86
D858	KOMATSU JTHB400 TELEDYNE TB2580 TOKU (BTI) TNB 400	424	86
D860	TOKU (BTI) TNB 7J	414	85
D870	KUBOTA KXB 310 RAMMER / SANDVIK BR111 ROBI MH7	335	72
D900	CATERPILLAR CAT H35DS	50	22
D900	RAMMER / SANDVIK BR255	337	72
D901	CATERPILLAR CAT H45DS RAMMER / SANDVIK BR355	51	22
D902	CATERPILLAR CAT H55DS	52	22
D902	RAMMER / SANDVIK BR455	341	73
D903	CATERPILLAR CAT H65DS	53	22
D904	CATERPILLAR CAT H75ES	58	23
D905	CATERPILLAR CAT H95ES	59	23
D906	CATERPILLAR CAT H110ES	60	23
D907	CATERPILLAR CAT H115ES	61	23
D908	CATERPILLAR CAT H120ES	62	23
D909	CATERPILLAR CAT H130ES	63	23
D913	CATERPILLAR CAT H160ES	65	24
D914	CATERPILLAR CAT H140ES	64	24
D915	CATERPILLAR CAT H180ES	66	24
D916	CATERPILLAR CAT H35ES	54	22
D917	CATERPILLAR CAT H45ES	55	22
D918	CATERPILLAR CAT H55ES	56	22
D919	CATERPILLAR CAT H65ES	57	23
D923	EVERDIGM EHB03 PRODEM PRB030	69	25
D924	EVERDIGM EHB04 PRODEM PRB040	70	25
D925	EVERDIGM EHB05 PRODEM PRB050	71	25
D926	EVERDIGM EHB10 PRODEM PRB100	73	26
D927	EVERDIGM EHB13 PRODEM PRB130	74	26

CAT. NUM.	HAMMER TYPE	FIG. NUM.	PAGE NUM.
D928	EVERDIGM EHB17 PRODEM PRB170	75	26
D929	EVERDIGM EHB20 PRODEM PRB200	76	26
D930	EVERDIGM EHB25 PRODEM PRB250	77	27
D932	EVERDIGM EHB30 PRODEM PRB300	78	27
D933	EVERDIGM EHB40 PRODEM PRB400	79	27
D934	EVERDIGM EHB50 PRODEM PRB500	80	27
D935	EVERDIGM EHB008 PRODEM PRB008	67	25
D936	EVERDIGM EHB01 / EHB02 PRODEM PRB010	68	25
D937	EVERDIGM EHB06 PRODEM PRB060	72	26

The purpose of this guide is to provide advice on the correct application of P&V Demolition Tools and assist in analysing and resolving any complaints immediately they occur.

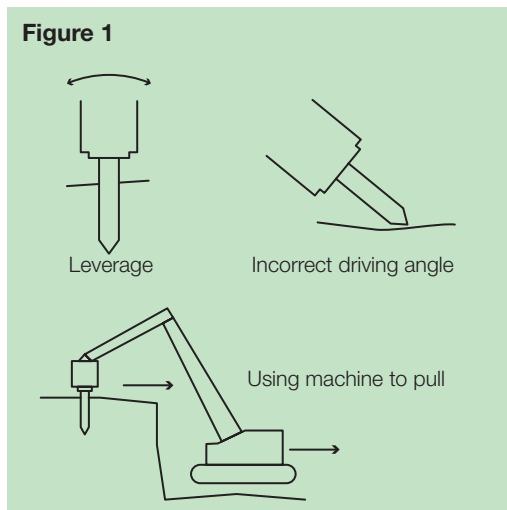
Cause and Effect of Fatigue Failures

The continuous cycle of compressive and tensile stresses in a Demolition Tool, even under correct operating conditions, creates fatigue stress in the tool which can lead to fatigue failure of the tool before it is worn out. Anything which interferes with the normal operational cycle of compressive and tensile stresses will increase the level of fatigue stress being applied to the tool, increasing the risk of early fatigue failure.

1) Leverage/Bending

The main cause of increased fatigue stress in a demolition tool is any form of side pressure during service which creates bending. Utilising the tool as a lever, using the incorrect driving angle or attempting to break ground using the “pull” of the machine are all detrimental to the life of a demolition tool and should be avoided (see Figure 1).

Figure 1



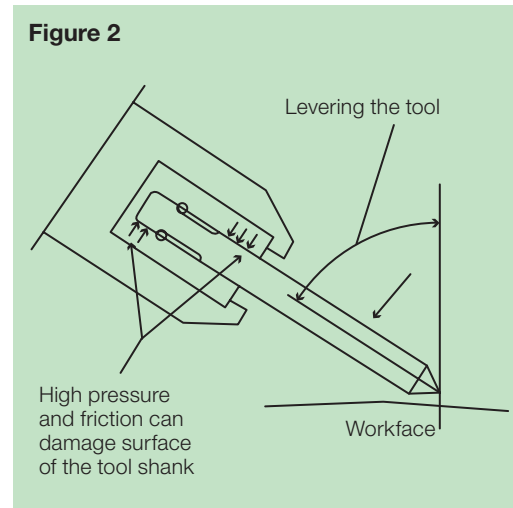
2) “Free Running”/“Blank Firing”

This can arise in any situation where the working end is not in proper contact with the material to be broken. This includes jobs where the tool slides off the work and also when break-through of thin concrete slabs or boulders occurs. It is essential that the tool is applied at a right-angle to the working surface at all times.

3) Lubrication

Regular lubrication is essential. Any form of damage to the surface of a demolition tool renders it more liable to suffer fatigue failure. Care must be taken to prevent accidental gouging or contact welding (“galling” or “pickup”) due to contact between the tool and chuck bushings either through lack of lubrication or excessive leverage (see Figure 2).

Figure 2



4) Cold/Corrosion

Low temperature causes a Demolition Tool to be more susceptible to fatigue failure. Tools should be kept sheltered from the weather when not in use. A rusty Demolition Tool is more likely to suffer fatigue failure, so tools should be kept well greased.

5) Worn Internal Hammer Parts

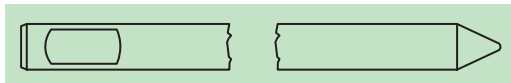
Worn hammer parts can cause the tool to be held too “loosely”. This can create surface damage on the tool, which can lead to fatigue failure of the tool. Worn parts can also cause uneven striking on the tool, which may lead to fatigue failure of the tool and damage to the piston.

Continued...

WARRANTY GUIDE

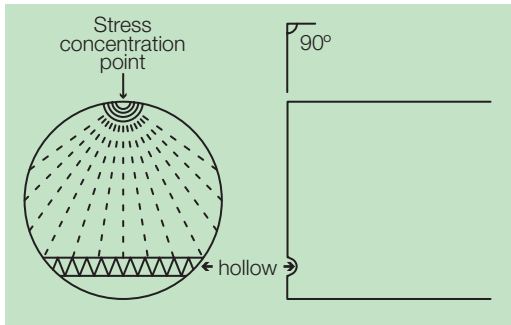
6) Typical Failures (Guide to Warranty Claims)

P&V Demolition Tools are manufactured from first class materials and then heat-treated to produce tools with optimum fatigue and wear resistance. When a tool has apparently failed to give satisfactory service life, a brief visual inspection can often give a quick indication of the cause.



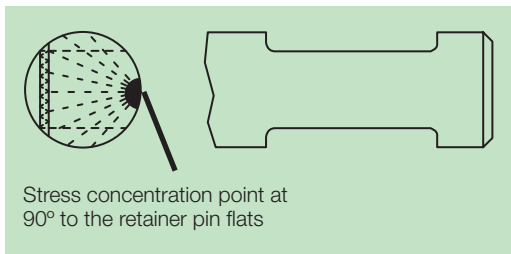
- a) Typical fractures caused by excessive bending/leverage of the demolition tool.

Warranty claims rejected.



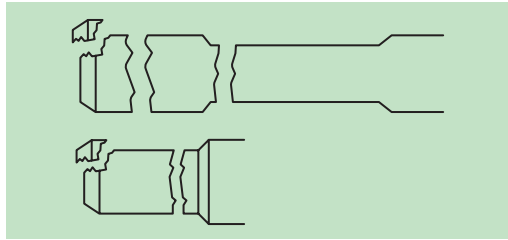
- b) Typical of high stress fracture, usually caused by using the tool as an anchor to "pull" the machine.

Warranty claims rejected



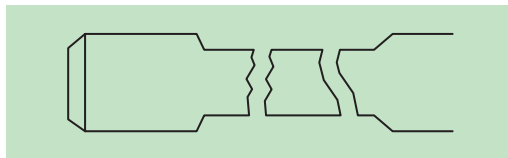
- c) Typical fracture caused by levering tool whilst buried in the burden.

Warranty claims rejected.



- d) Typical fractures caused by blank firing and/or excessive chuck bush wear/damage.

Warranty claims rejected.



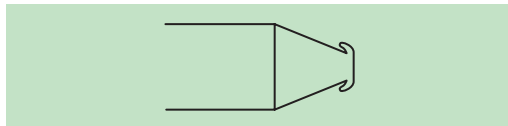
- e) Typical fractures caused by blank firing and/or twisting of the tool due to worn/damaged retainer pin.

Warranty claims rejected.



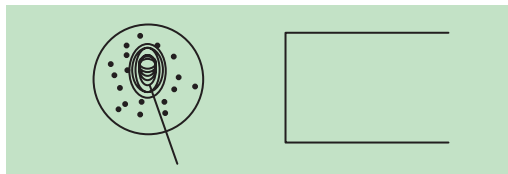
- f) Typical fracture caused by lack of lubrication and/or chuck bush wear/damage.

Warranty claims rejected.



- g) Mushrooming: this is caused by driving the chisel or point into hard dense material for too long a period of time without penetration. This generates intense heat, softening the point and causing it to "mushroom". This is not a manufacturing fault.

Warranty claims rejected.



- h) Note fatigue lines originate from the internal point, not outer diameter. Very rare failure type due to steel defect. 100% warranty accepted.



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