

RELIABLE & COST EFFECTIVE


Oprema Ravne





EXCELLENT QUALITY AND CUSTOMER SERVICES

400 years of experience in production, processing and finishing of steels.



Modern Facilities.



WE OFFER THE BEST PRICE / PERFORMANCE RATIO

ATEX,GOST certified



Mass production of:
pick hammers, paving breakers,
exchangeable tools for pick hammers
and breakers, rock drills, air legs for rock
drills and down the hole hammers.

LOW COST DRILLING



ADVANTAGES

Individual Model and Configuration choice (based on "MODULAR SYSTEM")

Best performance / weight ratio.

Perfect quality and best customer service.

Low noise and vibration level.

Highest safety levels (ATEX, CE certification).

Excellent durability.

Short pay-off period.

Parts are 100 % interchangeable.

All parts always on stock with short delivery times.

Designed for use in mining, civil construction quarries and tunneling.

Made according to precise engineering and quality standards.



LIGHT AND EFFECTIVE



MFD 90 ROCK DRILL FAMILY CONFIGURATION IN THREE MODELS:

MFD 90 with stroke 45 mm: more rotation for softer ground conditions.

MFD 90 MAX with stroke 60 mm: higher impact energy, less rotation for medium ground conditions.

MFD 90 MAX PLUS with stroke 60 mm: heavier piston for hard rock ground conditions.

TECHNICAL DATA FOR MFD 90 Piston stroke 45 mm

Conf.	Order No.	Piston Diameter	Impact rate	Free speed	Air consum. at 5 bar	Operating pressure	Net weight	Air connection	Length max.	Shank hex.	Vibration level according to ISO5349-2 1AXIS m/s ²	Sound pressure level according to ISO 11201 ** 105 dBA
DI	9 307 01L	90 mm	3100 min ⁻¹	320 rpm	4,5 m ³ /min	4-7 bar	26 kg	BSP 1"	680 mm	S 22	16,7	
C	9 307 02L	90 mm	3100 min ⁻¹	320 rpm	4,5 m ³ /min	4-7 bar	26 kg	BSPT 3/4"	680 mm	S 22	16,7	
CL	9 307 04L	90 mm	3100 min ⁻¹	320 rpm	4,5 m ³ /min	4-7 bar	26 kg	BSPT 3/4"	680 mm	S 22	16,7	

TECHNICAL DATA FOR MFD 90 MAX Piston stroke 60 mm

Conf.	Order No.	Piston Diameter	Impact rate	Free speed	Air consum. at 5 bar	Operating pressure	Net weight	Air connection	Length max.	Shank hex.	Vibration level according to ISO5349-2 1AXIS m/s ²	Sound pressure level according to ISO 11201 ** 105 dBA
DI	9 307 05L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	26,30 kg	BSP 1"	695 mm	S 22	14,2	
C	9 307 08L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	26,30 kg	BSPT 3/4"	695 mm	S 22	14,2	
CPS	9 307 11L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	26,20 kg	BSPT 3/4"	685 mm	S 22	14,2	
CL	9 307 09L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	26,30 kg	BSPT 3/4"	700 mm	S 22	14,2	
DIQ	9 307 05 017L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	26,10 kg	BSP 1"	600 mm	S 22	14,2	
QA	9 307 25L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	24,50 kg	BSP 1"	600 mm	S 22	14,2	
Q	9 307 28L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	24,50 kg	BSP 3/4"	620 mm	S 22	14,2	
ST	9 307 32L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	25,8+12 kg	BSPT 3/4"	620 mm	S 22	14,2	
SI	9 307 35L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	4-7 bar	26,30 kg	BSPT 3/4"	665 mm	S 22	6	
SIP	9 307 44L	90 mm	2750 min ⁻¹	300 rpm	4,5 m ³ /min	5-7 bar	27,30 kg	BSPT 3/4"	720 mm	S 25	6	

TECHNICAL DATA FOR MFD 90 MAX PLUS Piston stroke heavy 60 mm

Conf.	Order No.	Piston Diameter	Impact rate	Free speed	Air consum. at 5 bar	Operating pressure	Net weight	Air connection	Length max.	Shank hex.	Vibration level according to ISO5349-2 1 AXIS m/s ²	Sound pressure level according to ISO 11201 ** 105 dBA
DI	9 307 13L	90 mm	2650 min ⁻¹	290 rpm	4,5 m ³ /min	4-7 bar	26,50 kg	BSP 1"	695 mm	S 22	17,3	
C	9 307 14L	90 mm	2650 min ⁻¹	290 rpm	4,5 m ³ /min	4-7 bar	26,50 kg	BSPT 3/4"	695 mm	S 22	17,3	
CL	9 307 15L	90 mm	2650 min ⁻¹	290 rpm	4,5 m ³ /min	4-7 bar	26,50 kg	BSPT 3/4"	700 mm	S 22	17,3	
SI	9 307 06L	90 mm	2650 min ⁻¹	290 rpm	4,5 m ³ /min	4-7 bar	26,50 kg	BSPT 3/4"	665 mm	S 22	6	
ST	9 307 07L	90 mm	2650 min ⁻¹	290 rpm	4,5 m ³ /min	4-7 bar	26+12 kg	BSPT 3/4"	620 mm	S 22	17,3	
STPS	9 307 39L	90 mm	2650 min ⁻¹	290 rpm	4,5 m ³ /min	4-7 bar	26 kg	BSPT 3/4"	620 mm	S 22	20,4	
STSI	89 307 65L	90 mm	2650 min ⁻¹	290 rpm	4,5 m ³ /min	4-7 bar	30,3 kg	BSPT 3/4"	620 mm	S 22	20,4	

** FOR POLYMER SILENCED (PS) CYLINDER HOUSING; FOR RELATIVE PRESSURE OF MEASUREMENT 4,5 BAR.

CERTIFICATION ACCORDING TO 2014/34/EC DIRECTIVE (ATEX) MEETS: CE, DIN, GOST-R STANDARDS.

ADDITIONAL PARTS AVAILABLE FOR MODIFICATION TO ALL MODELS & VERSIONS.

FOR COAL MINES REQUEST ATEX ONLY!

ANTI-VIBRATION GLOVES USE, SIGNIFICANTLY (UP TO 40%), REDUCES VIBRATIONS AFFECTING OPERATOR!



MFD 90 ROCK DRILL FAMILY CONFIGURATION

Every model is available in various configurations: C, CL, DI, DIQ, ST, SI, SIP, QA, Q.

A PS (polymer silenced) modification (MAX, MAX PLUS model) is used in coal mines (ATEX certified) or as supreme double silenced variant. For standard drilling we offer common left hand rotation and for rock bolting right hand rotation. Flushing is by water entering through water inlet port. In case of air flushing compressed, air can be connected on water inlet, or we can supply a special air valve in (QA, SIA) configuration.

Standard shanks available are: S22 X 108 and S25 X 108.

For best efficiency and operators comfort choice, contact our technical sales department.

MFD 90 ROCK DRILL FAMILY CONFIGURATION



C CONFIGURATION

- Central operation of Air Leg from handle
- Right hand operating lever
- With mounting mechanism for DTC or PN 67/1000C, 1300C Air Legs
- Simple fixation of Air Leg



CL CONFIGURATION

- Central operation of Air Leg from handle
- Left hand operating lever
- With mounting mechanism
- For DTC or PN 67/1000C, 1300C Air Leg



DI CONFIGURATION

- D - handle
- I - independent Air Leg control
- Integrated mounting attachment for DT or PN67/1000, 1300 Air Leg
- Right hand operating lever (can be modified to left hand)



DIQ CONFIGURATION

- Support plate for fixation
- Air can be connected to water inlet port
- Drilling on drill mast
- Side positioned water & air inlet ports



SI CONFIGURATION

- Ergonomic handle (7,5 m/s²)
- Detachable counter weights available
- with air flushing option (SIA) or;
- water flushing option (SI)



SIP CONFIGURATION

- Ergonomic handle (7,5 m/s²)
- Push / Pull vibration absorbing
- with air flushing option (SIA) or;
- water flushing option (SI)

VK 23 ROCK DRILLS



VK 23DI

- With air or water valve
- Right hand operating lever
- With airleg mounting attachment
- Rifle bar rotation mechanism
- Cost saving and efficient



VK 23SIA

- With air (SIA) or water flushing option (SI)
- Right hand operating lever
- Antivibration sinker handle
- Push absorbing handle
- Push and pull absorbing handle (SIP)



VK 23T

- Firm handle Sinker Drill
- Low maintenance requirement
- Without Air Leg adapter
- Simple and light weight

VK 23 Rock Drills have rifle bar rotation system. Available with standard S22 X 108 or S25 x 108 tool shank (available on request).

TECHNICAL DATA FOR VK 23 ROCK DRILLS

Conf.	Order No.	Piston Diameter	Impact rate	Free speed	Air consum. at 5 bar	Operating pressure	Net weight	Connection		Length max.	Shank	Vibration level according to ISO5349-2 1AXIS m/s ²	Sound pressure level according to ISO 11201 113 dBA
								Air	Water				
DI	9 302 14	65 mm	2100 min ⁻¹	220 rpm	2,5 m ³ /min	4-7 bar	23 kg	R 3/4"	1/2"	650 mm	S 22	16,1	
SIA	9 302 15	65 mm	2100 min ⁻¹	220 rpm	2,5 m ³ /min	4-7 bar	24 kg	R 3/4"	-	650mm	S 22	3,4	
SI	9 302 16	65 mm	2100 min ⁻¹	220 rpm	2,5 m ³ /min	4-7 bar	24 kg	R 3/4"	1/2"	650 mm	S 22	3,4	
T	9 302 20	65 mm	2100 min ⁻¹	220 rpm	2,5 m ³ /min	4-7 bar	21 kg	R 3/4"	1/2"	650 mm	S 22	16,1	



MFD 90 ROCK DRILL FAMILY CONFIGURATION

STOPER CONFIGURATION

- Left hand back head
- Flange for Stoper Leg
- Control mechanism fixed in central cover



UNDERWATER STINGER ROCK DRILL

- For vertical and horizontal drilling under water
- Mounted on the ship, raft or special pillar



STINGER CONFIGURATION

- STOPER set up
- Retractable Air Leg
- Drilling downwards
Mine shaft drilling with support or stage



QPS CONFIGURATION

- To be mounted on to slide frame
- Top air & water inlet port
- Integrated and polymer silencer
- Adaptable to other models



PN SINGLE STAGE & DT DOUBLE TELESCOPIC AIR LEG

TECHNICAL DATA FOR PN, DT

Air Leg Models		Part. Number	Rock Drill (handle) Type	Length retracted	Stroke	Length extendet	Piston diameter	Automatic retraction	Weight
PN 67/800 ST	SINGLE STAGE	9 338 10 001	MFD90ST,STO,ST-SI	1067 mm	800 mm	1867 mm	67 mm	no	11,30 kg
PN 67/1300 DI		9 338 11	MDF90DI	1880 mm	1282 mm	3162 mm	67 mm	yes	17,50 kg
PN 67/1300 DIM *		9 338 17	MFD90DI-PS	1880 mm	1282 mm	3162 mm	67 mm	yes	19,30 kg
PN 67/1000 DI		9 338 12	MFD90DI	1597 mm	1000 mm	2597 mm	67 mm	yes	15,80 kg
PN 67/1000 DIM *		9 338 18	MFD90DI-PS	1597 mm	1000 mm	2597 mm	67 mm	yes	17,20 kg
PN 67/1300 C		9 338 13	MFD90C,CL	1651 mm	1282 mm	2933 mm	67 mm	yes	15,00 kg
PN 67/1300 CM *		9 338 15	MFD90C-PS,CL-PS	1651 mm	1282 mm	2933 mm	67 mm	yes	16,90 kg
PN 67/1000 C		9 338 14	MFD90C,CL	1369 mm	1000 mm	2369 mm	67 mm	yes	13,50 kg
PN 67/1000 CM *		9 338 16	MFD90C-PS,CL-PS	1369 mm	1000 mm	2369 mm	67 mm	yes	14,80 kg
PN 53/1000		9 373 300	VK23DI	1445 mm	1020 mm	2465 mm	53 mm	no	11,50 kg
PN 53/1000 M *		9 373 301	VK23DI	1445 mm	1020 mm	2465 mm	53 mm	no	14,75 kg
PN 53/1300		9 372 300	VK23DI	1745 mm	1320 mm	3065 mm	53 mm	no	13,00 kg
PN 53/1300 M*		9 372 301	VK23DI	1745 mm	1320 mm	3065 mm	53 mm	no	16,48 kg
PN ST SI STINGER		64-978-718-DM	MFD90STSI	2730mm	1800 mm	4530 mm	78 mm	no	16 kg
DTC 50	DOUBLE TELESCOPIC	64-979-005-C	MFD90C,CL	740 mm	545 mm	1285 mm	78/65 mm	no/yes	10,50 kg
DTC 100		64-979-010-C	MFD90C,CL	965 mm	1040 mm	2005 mm	78/65 mm	no/yes	12,00 kg
DTC 140		64-979-014-C	MFD90C,CL	1170 mm	1440 mm	2610 mm	78/65 mm	no/yes	14,50 kg
DTC 180		64-979-018-C	MFD90C,CL	1370 mm	1840 mm	3210 mm	78/65 mm	no/yes	16,00 kg
DTC 200		64-979-020-C	MFD90C,CL	1510 mm	2100 mm	3610 mm	78/65 mm	no/yes	17,00 kg
DT 50		64-979-005-DM	MFD90DI	890 mm	545 mm	1435 mm	78/65 mm	no/yes	12,00 kg
DT 100		64-979-010-DM	MFD90DI	1115 mm	1040 mm	2155mm	78/65 mm	no/yes	13,50 kg
DT 140		64-979-014-DM	MFD90DI	1320 mm	1440 mm	2760 mm	78/65 mm	no/yes	15,00 kg
DT 180		64-979-018-DM	MFD90DI	1520 mm	1840 mm	3360 mm	78/65 mm	no/yes	17,00 kg
DT 200		64-979-020-DM	MFD90DI	1660 mm	2100 mm	3760 mm	78/65 mm	no/yes	18,50 kg

* STEEL METAL COVERED CYLINDER WITH ATEX CERTIFICATION



DOUBLE TELESCOPIC AIR LEGS

- DTC and DT (Double Telescopic) Air Legs are light weight and robust
- All have long stroke and retractable second stage
- DTC model for MFD 90C and CL.
- DT model for MFD 90DI and VK 23DI.
- DTS double telescopic STOPER on request

SINGLE STAGE AIR LEGS

- PN 67/1000, 1300 DI, DIM fully retractable, extension from top
- PN 67/1000, 1300 C, CM fully retractable, extension from bottom
- PN 53/1000, 1300; PN 53/1000, 1300 M extension from top
- M - steel/metal covered - ATEX
- PN STSI STINGER Air Leg for vertical downward drilling



SPARE AND WEARING PARTS MADE FROM HIGH RESISTENT MATERIALS

PARTS ARE 100% INTERCHANGEABLE - ALL PARTS AVAILABLE ON STOCK - SHORT DELIVERY TIMES

HWR PISTON STROKE 45, 60, 60 HEAVY

- Excellent wear, heat and corrosion resistance
- Striking end can be refaced by grinding (max 1 mm)
- Left or right rotation



TWO PIECE RATCHET RING

- Threaded design for cost saving
- Forged materials used for reliability



POLYMER CYLINDER HOUSING WITH DISPERSED EXHAUST CYLINDER LINER

- New benchmark in noise reduction
- For 60 mm piston stroke
MAX and MAX PLUS models available
- Certified according to 2014/34/EC directive (ATEX)
- Meets CE,DIN,GOST Standards



ALL PARTS ALWAYS ON STOCK

INTEGRALS, REAMERS, TAPER RODS

- Drilling of natural stones and concrete
- Hexagonal shank 22 x 108 or 25 x 108
- Diameters and lengths according to ISO or (as agreed)



IN LINE LUBRICATORS MAZ 10 (M), 20 (M), 30 (M), 40 (M); 240

- If oil runs out, the compressed air supply automatically closes
- Reliable operation is guaranteed
- Safety off function if air disconnects
- M - steel/metal covered with ATEX certificate for coal mines



Lubricator Order No.	MAZ 10 (M) 9 336 01 (05)	MAZ 20 (M) 9 336 02 (06)	MAZ 30 (M) 9 336 03 (07)	MAZ 40 (M) 9 336 04 (08)	MAZ 240 9 336 12
Length (mm)	404	404	404	404	410
Width (mm)	128	128	128	128	165
Weight (kg)	4,8	4,8	4,8	4,8	8,3
Oil quantity in tank (l)	0,5	0,5	0,5	0,5	1
Working pressure (bar)	4-7	4-7	4-7	4-7	4-7
Air flow (min ⁻³)	0,5-1	1-2,5	2,5-4,8	4,8-7	4,8-7
Connection thread (external)	R3/4"	R3/4"	R1"	R1"	R1"

OPREMA RECOMMENDATION:

MAZ 10 (M) use with: NP100, NP180, CK30
 MAZ 20 (M) use with: LRK7, LRK8, SRK12, SRK17
 ECO17, ECO20, ECO23, TRK30
 MAZ 30 (M) use with: VK23
 MAZ 40 (M) use with: MFD90, MFD90 MAX,
 MFD90 MAX PLUS, LPB, LTV
 MAZ 240 use with: MFD90 MAXPLUS on drill rig

ADVANTAGES

- Robust construction
- High operating efficiency
- Reliable work
- Simple maintenance
- Ergonomic design of hammer elements

APPLICATIONS

- Working pressure 4 - 7 bar
- For manual works such as digging, breaking and demolition in building industry, road construction, civil engineering mining, tunneling



PNEUMATIC PICK HAMMERS



EQUIPMENT FOR PNEUMATIC PICK HAMMERS

Rubber muffle (P designation) reduces noise to EU permitted levels

An ergonomic vibration - absorbing handle (E designation) reduces vibration on handle to a minimum

Assortedmoil points, chisels and spades are available in stock

Requires in-line lubricator MAZ as mandatory on compressed air line.



PICK HAMMERS

TECHNICAL DATA FOR PNEUMATIC PICK HAMMERS

Typ	Part No.	Weight	Length	Piston diameter	Impact rate	Air consumption at 5 bar		Air connection	Level of vibration according to ISO 28927-10 3AXLES m/s ²	Shank
S23	9 353 03	2,6 kg	270 mm	21 mm	2200 min ⁻¹	0,3 m ³ /min	5,0 l/s	R3/8"	12,5	14,3/12,5 mm hex.
S5	9 353 40	5,5 kg	417 mm	28 mm	2250 min ⁻¹	0,4 m ³ /min	6,6 l/s	R3/4"	7	19 x 50 mm hex.
COCK9	9 308 03	7,6 kg	345 mm	28 mm	1500 min ⁻¹	0,6 m ³ /min	10 l/s	R3/4"	7	s15 cone 1:12
COCK9W	9 308 04	7,6 kg	345 mm	28 mm	1500 min ⁻¹	0,6 m ³ /min	10 l/s	R3/4"	7	s15 cone 1:10
LRK6PEAKK	89 359 77	6,5 kg	494 mm	34 mm	1650 min ⁻¹	1,0 m ³ /min	16,7 l/s	R3/4"	7	∅ 16 x 13 mm round
LRK7	9 359 01	7,9 kg	454 mm	34 mm	1650 min ⁻¹	1,0 m ³ /min	16,7 l/s	R3/4"	7	∅ 25 x 75 mm round
LRK7PE	9 359 30	8,3 kg	454 mm	34 mm	1650 min ⁻¹	1,0 m ³ /min	16,7 l/s	R3/4"	13	∅ 25 x 75 mm round
LRK8	9 359 02	9,5 kg	455 mm	34 mm	1650 min ⁻¹	1,0 m ³ /min	16,7 l/s	R3/4"	7	22 x 82,5 mm hex.
LRK8PE	9 359 31	9,9 kg	455 mm	34 mm	1650 min ⁻¹	1,0 m ³ /min	16,7 l/s	R3/4"	13	22 x 82,5 mm hex.
SRK12	9 359 33	12,5 kg	625 mm	36 mm	800 min ⁻¹	1,2m ³ /min	20 l/s	R3/4"	7	∅ 25 x 75 mm round
SRK12PE	9 359 32	12,9 kg	625 mm	36 mm	800 min ⁻¹	1,2m ³ /min	20 l/s	R3/4"	13	∅ 25 x 75 mm round
SRK12PEA	9 359 67	13,7 kg	690 mm	36 mm	800 min ⁻¹	1,2m ³ /min	20 l/s	R3/4"	7	∅ 25 x 75 mm round
SRK12PE SPLITT.	9 359 71	12,2 kg	540 mm	36 mm	800 min ⁻¹	1,2m ³ /min	20 l/s	R3/4"	13	∅ 25 x 75 mm round
SRK12STPE	9 359 52	19,2 kg	646 mm	36 mm	800 min ⁻¹	1,2m ³ /min	20 l/s	R3/4"	6,8	22 x 82,5 mm hex.
SRK17	9 359 04	19,0 kg	611 mm	46 mm	1400 min ⁻¹	1,5m ³ /min	25 l/s	R3/4"	6,8	22 x 82,5 mm hex.
SRK17PE	9 359 41	20,5 kg	611 mm	46 mm	1400 min ⁻¹	1,5m ³ /min	25 l/s	R3/4"	6,8	22 x 82,5 mm hex.
SRK17FPE	9 359 42	20,8 kg	637 mm	46 mm	1400 min ⁻¹	1,5m ³ /min	25 l/s	R3/4"	6,8	25 x 108 mm hex.
TRK30N	9 359 57	27,5 kg	668 mm	52 mm	1100 min ⁻¹	1,6 m ³ /min	26,7 l/s	R3/4"	21,6	32 x 152 mm hex.



S5, S23

- Chipping hammer
- Front head is designed for a hexagonal shank
- Applicable for cutting, cleaning of castings, forgins, welds. Also punching, excavation and cleaning of brick or concrete walls, for stone working



COCK9

- Plug hammer
- Using rouging head, chisel ormoil point, it is excelent tool for concrete roughening or stone splitting



LRK6PEA KK

- Light weight chipping hammer
- Ideal for working in coal mines (ATEX certified for using in explosive atmosphere)
- reduced noise and vibration



LRK7, LRK7PE

- Light weight pick hammer
- Front head is designed for a round shank
- Applicable for demolition of brick and concrete walls



LRK8, LRK8PE

- Light weight pick hammer
- Front head is designed for a hexagonal shankmoil point, chisel, spade use
- Applicable for demolition of brick and concrete walls, cutting of asphalt and for excavations

PICK HAMMERS



SRK17, SRK17PE, SRK17FPE

- Light paving breaker
- Front head is designed for a hexagonal shank and it allows use of chisels and spades
- Suitable for all kinds of digging and construction works, breaking of concrete foundation, rocks, cutting of asphalt and similar mediums
- With vibration absorbing or standard T handle



SRK12, SRK12PE, SRK12PE SPLITTER, SRK12PEA, SRK12STPE

- Most efficient pick hammer
- Front head is designed for a round shank
- Applicable for digging of channels and shafts, excavating and breaking of rocks
- Low frequency - high impact energy

PICK HAMMERS



TRK30N

- Heavy - duty paving breaker
- Front head is designed for a hexagonal shank and it allows use of spade, chisel
- Applicable for all digging works, breaking of rocks and foundations



ECO LINE PAVING BREAKERS

TECHNICAL DATA FOR PAVING BREAKERS ECO

Type	Part No.	Piston Diameter	Impact rate	Air consumption at 5 bar	Net weight	Air connection	Length max.	Shank hex.	Vibration level according to ISO28927-10 3AXLES *** m/s ²
ECO17	9 359 45	46 mm	1370 min ⁻¹	1,4 m ³ /min 23,3 l/s	17,4 kg	R 3/4"	567 mm	22X82,5	16,7
ECO23	9 359 47	50 mm	930 min ⁻¹	1,4 m ³ /min 23,3 l/s	22,8 kg	R 3/4"	673 mm	25X108	18,1

*** The value of vibration level can show a 50% deviation as a result of the method of measuring and deviations in the design of paving breakers.

ADVANTAGES

ECO Paving Breaker designs are based on modular concept

Paving breakers with T handle are robust and effective, featuring excellent vibration absorption

Excellent silencing characteristics



ECO17

- Light weight paving breaker
- Firm T handle with excellent vibration absorption
- Easy to assemble / disassemble

ECO23

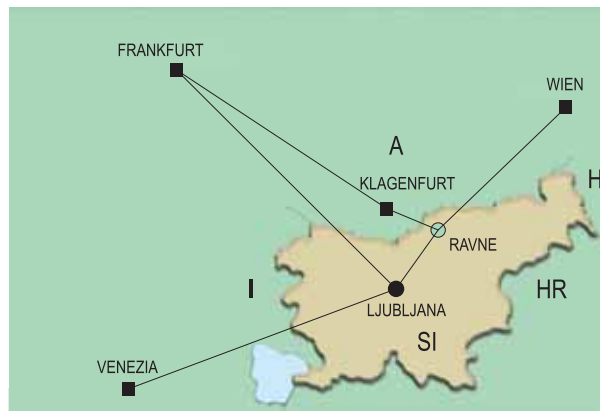
- Robust and effective paving breaker
- Big volumetric exhaust chamber
- Low weight to performance ratio

EXCHANGEABLE TOOLS FOR PNEUMATIC PICK HAMMERS

Tool Type	Order No.	Pick Hammer	Net weight	Length useful	Shank
1 MOIL POINT	408 00 019, 408 00 060	S23	0,28; 0,4 kg	150, 250 mm	14,3 X 12,5 hex.
	408 00 072	S5	0,80 kg	250 mm	19 X 50 hex.
	408 00 028, 408 00 029	LRK7, SRK12	1,8; 2,2 kg	350, 450 mm	∅25 X 75 round
	408 00 030	LRK8, SRK17	2,25 kg	450 mm	22 X 82,5 hex.
	408 00 036	TRK30	4,35 kg	450 mm	32 X 152 hex.
2 CHISEL	407 00 062, 407 00 105	S23	0,28; 0,4 kg	150, 250 mm	14,3 X 12,5 hex.
	407 00 125	S5	0,8 kg	250 mm	19 X 50 hex.
	407 00 123		0,8 kg	250 mm	19 X 50 hex.
	407 00 124		0,8 kg	250 mm	19 X 50 hex.
	407 00 082	LRK8, SRK17	1,4 kg	350 mm	22 X 82,5 hex.
407 00 084	TRK30	4,25 kg	460 mm	32 X 152 hex.	
3 SPADE	409 00 019	LRK8, SRK17 TRK30	3,3 kg	425 mm	22 X 82,5 hex.
	409 00 013		3,25 kg	350 mm	32 X 152 hex.
4 SPLITTER SET	32L320	SRK12PE SPLITTER	2,5 kg	320 mm	∅25 X 75 round



● Our clients



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