

Pneumatic and hydraulic tools

Drifter and drilling tools for mines, quarries, construction, and foundry

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COMPANY HISTORY

The beginning of the industry defining the current company PERMON dates back to the 19th century when industrial production boomed on the riverside of Berounka and historical milestones which played а significant role for the company development. Milestone year was 1824, when nobleman Karel Egon II. von Fürstenberg, built ironworks Marie – Anna in Roztoky for refining raw iron and later the sheet metal rolling mill. The production continued the works of duke's ironworks in Stará Huť (current Hýskov), Nová Huť (Nižbor) and Nový Jáchymov. At the time, Fürstenberg's ironwork facility ranked amongst the most modern companies in Central Europe and the products are still historically recognised.

Engineering production boomed during the period after WWII. The production was based in Roztoky under many names – e.g. TOK, TRANSPORTA, NÁŘADÍ, PERMON etc. During this period, the production program of PERMON started to be formed and based on high quality of products.

The success of Czech trademark PERMON is proven by its history and recently celebrated 60 years. It has also received awards for quality and particularly many satisfied customer on the domestic and foreign market.

The products are applied worldwide.

01 PICK HAMMERS

Pick hammers PERMON are designed for disconnecting low and medium solidity ground and materials (e.g. concrete, bituminous roads, coal). They are used mostly in construction, in mining, and open operations.

- HIGH RATIO PERFORMANCE/WEIGHT ENABLE
 LOWER PHYSICAL WORK FOR THE OPERATORS
- LONG LASTING RESISTANCE OF MATERIALS
- SIMPLE CONSTRUCTION ENABLES EASY
 MAINTENANCE AND REPAIR WORKS
- MINIMUM NUMBER OF PARTS
- HIGH SERVICE LIFE AND RELIABILITY
- HIGH IMPACT ENERGY
- LARGE SELECTION OF TOOLS AND ACCESSORIES

PICK HAMMERS / CLASSIC CONSTRUCTION

CHARACTERISTICS

The product construction is formed from materials compliant with the requirements for use in the environment with hazardous atmospheric conditions.

Туре	Weight (kg)	Dimension (mm)	Air consump.	Tool shank	Operating pressure	Connective thread	Noise	Vibration
SK 9-5	9	236×470	0,9m³/min	Ø25×75	4 - 7 bar	R3/4"	105 dB	9,1 m/s²
SK 9-6	9	236×470	0,9m³/min	# 22 × 82	4 - 7 bar	R3/4"	105 dB	9,1 m/s²
SK9-6A	10	236×470	0,9m³/min	# 22 × 82	4 - 7 bar	R3/4"	104 dB	9,1 m/s²
SK13B	13	236×612	0,9m³/min	Ø25×75	4 - 7 bar	R3/4"	105 dB	13,3 m/s ²
SK13D	13	236×612	0,9m³/min	# 22 × 82	4 - 7 bar	R3/4"	105 dB	13,3 m/s ²
SK13DZ	14	236×612	0,9m³/min	# 22 × 82	4 - 7 bar	R3/4"	105 dB	13,3 m/s²



SK 13DZ







PICK HAMMERS / WITH REDUCED VIBRATIONS

CHARACTERISTICS

The drifter part (roller with the distribution and piston) is inserted in the hammer control part and it is not in contact with the operators' hands. Due to the roller location in the handle and the springs, the oscillation is not fully transferred, it is significantly reduced.

Туре	Weight (kg)	Dimensions (mm)	Air consump.	Tool shank	Operating pressure	Connective thread	Noise	Vibrations	SKA 10DZ
SKA10B	11	240×490	0,9 m³/min	Ø25×75	4 - 7 bar	R3/4"	101 dB	5,1 m/s²	
SKA10D	11	240×490	0,9 m³/min	# 22 × 82	4 - 7 bar	R3/4"	101 dB	5,1 m/s²	
SKA10DZ	12	240×490	0,9 m³/min	# 22 × 82	4 - 7 bar	R3/4"	101 dB	5,1 m/s²	Contrast 1
SKA12B	13	240×650	1,0 m³/min	Ø25×75	4 - 7 bar	R3/4"	102 dB	3,8 m/s ²	
SKA12D	13	240×650	1,0 m³/min	# 22 × 82	4 - 7 bar	R3/4"	102 dB	3,8 m/s ²	
SKA12DZ	14,5	240×650	1,0 m³/min	# 22 × 82	4 - 7 bar	R3/4"	102 dB	3,8 m/s²	



PICK HAMMERS / SPADE PICK HAMMER

CHARACTERISTICS

SKR 11CD is applied during various ground works particularly where it is impossible to apply heavy mechanisation tools, e.g. in locations with difficult accessibility, work in heavy clay, etc.

Туре	Weight	Dimensions	Air consumption	Tool shank	Operating pressure	Connective thread	Noise	Vibrations
SKR11CD	11 kg	850× 230 mm	0,9 m₃/min	Ø 22 × 82	4 - 7 bar	R3/4"	105 dB	11 m/s²



D2 BREAKING HAMMERS

Demolition hammers PERMON are designed for disconnecting low and medium solidity ground and materials (e.g. concrete, bituminous roads, coal). The layout and the weight is suitable for incline mining, i.e. vertically or aslant down.

- HIGH RATIO PERFORMANCE/WEIGHT ENABLE LOWER PHYSICAL WORK FOR THE OPERATORS
- LONG LASTING RESISTANCE OF MATERIALS
- SIMPLE CONSTRUCTION ENABLES EASY MAINTENANCE AND REPAIR WORKS
- PISTON WITH AIR CUSHION
- HIGH IMPACT ENERGY
- HIGH SERVICE LIFE AND RELIABILITY
- LARGE SELECTION OF TOOLS AND ACCESSORIES

CHARACTERISTICS

Demolition hammers are available in two variants – classic and with reduced vibrations. Hammer series BKA with sprung handle and enabling simpler work with lower vibrations. Solid, single piece handle is available for hammer series BK.





Туре	Weight	Dimensions	Air consump.	Tool shank	Operating pressure	Connective thread	Noise	Vibrations
BK 15	15 kg	435×670mm	0,9 m₃/min	# 22 × 82 (# 25 × 108)	4 - 7 bar	R3/4"	103 dB	9.1 m/s²
BK 20	21 kg	435×670mm	1,4 m₃/mi	# 25 × 108 (# 28 × 160)	4 - 7 bar	R3/4"	105 dB	9.8 m/s²
BK 25	25 kg	435×670mm	1,4 m₃/mi	#25×108(#28×160)(#32×160)	4 - 7 bar	R3/4"	106 dB	11.5 m/s²
BK 30	30 kg	435×750mm	1.8 m₃/mi	#32×160(#28×160)(#32×152)	4 - 7 bar	R3/4"	110 dB	11.1 m/s²
BK 40	40 kg	435×800mm	2.0 m₃/mi	#32×160(#28×160)(#32×152)	4 - 7 bar	R3/4"	110 dB	8.8 m/s²

BREAKING HAMMERS / WITH REDUCED VIBRATIONS



Туре	Weight	Dimensions	Air consump.	Tool shank	Operating pressure	Connective thread	Noise	Vibrations
BKA 15	15 kg	435×670mm	0,9 m₃/min	# 22 × 82 (# 25 × 108)	4 - 7 bar	R3/4"	103 dB	2.5 m/s ²
BKA 20	21 kg	435×670mm	1.4 m₃/min	# 25 × 108 (# 28 × 160)	4 - 7 bar	R3/4"	105 dB	2.5 m/s ²
BKA 25	25 kg	435×670mm	1.7 m₃/min	# 25 × 108 (# 28 × 160) (# 32 × 160)	4 - 7 bar	R3/4"	106 dB	3.4 m/s ²
BKA 30	30 kg	435×750mm	1.8 m₃/min	# 32 × 160 (# 28 × 160) (# 32 × 152)	4 - 7 bar	R3/4"	110 dB	3.5 m/s ²
BKA 40	40 kg	435×800mm	1.9 m₃/min	# 32 × 160 (# 28 × 160) (# 32 × 152)	4 - 7 bar	R3/4"	110 dB	3.5 m/s ²

O3 CHIPPING HAMMERS

Pneumatic chipping hammers PERMON provides universal use. It is applied particularly in construction (light cutting and demolition works, grooving, cleaning), foundry (cleaning the casting, cutting riser) and stone working, and in sculpturing.

- HIGH IMPACT INTENSITY
- REDUCED NOISE NUISANCE
- VERY SIMPLE OPERATION
- HANDLE FOR SIMPLE AND SAFE WORK
- GRADUAL PERFORMANCE REGULATION AND HAMMER
 OPERATION
- LARGE SELECTION OF TOOLS AND ACCESSORIES

CHARACTERISTICS

Compressed air is supplied via the start valve in the roller operation. Air supply to the lower and upper area is controlled with a piston which performs direct return movement. In the lower dead centre the piston hits the tools and passes power which performs work via the tools. Consumed air leaves via the exhaust openings in the damper.



Needle hammer for hammer types SEK 2-1, SEK 2-2, SEK 4-1, is used in engineering, stone working, foundry, particularly for cleaning and roughening the surfaces.

Туре	Weight	Dimensions	Air consumption	Tool shank	Operating pressure	Connective thread
SEK 2-2	1.7 kg	215×353mm	0.2 m₃/min	# 19 × 50	4 - 7 bar	G1/2"





THE MOST FREQUENTLY USED TYPES OF CHIPPING HAMMERS

Туре	Weight	Dimensions	Air consump.	Tool shank	Operating pressure	Connective thread	Noise	Vibrations
SEK 2-1CP	2.3 kg	155×220mm	0.3 m₃/min	Ø12,7#11×45	4 - 6 bar	G1/2"	106 dB	3,1 m/s²
SEK 4-1CA	4,8 kg	215×353mm	0,3 m₃/min	# 19 × 50	4 - 7 bar	G1/2"	98 dB	8,0 m/s²
SEK 5-3CA	5,6 kg	215×355mm	0,9 m₃/min	# 19 × 50	4 - 7 bar	G1/2"	102 dB	9,3 m/s²
SEK 5-3BL	5,5 kg	215×300mm	0,9 m₃/min	#16,4 < 1:12	4 - 7 bar	G1/2"	102 dB	9,3 m/s²
SEK 6-3CA	5,8 kg	215×453mm	0,8 m₃/min	# 19 × 50	4 - 7 bar	G1/2"	105 dB	9,9 m/s²
SEK 6-3BL	5,8 kg	215×350mm	0,8 m₃/min	#16,4 < 1:12	4 - 7 bar	G1/2"	105 dB	9,9 m/s²

APPLIED TOOLS - STOPPER

SEK 6	SEK 5	SEK 4	SEK 2
mm	mm	mm	mm
# 15 < 1:12	# 15 < 1:12	# 16.4 < 1:12	Ø 12.6 x 50
# 16.4 < 1:12	# 16.4 < 1:12	# 15 < 1:12	# 10.6 x 50
# 15 < 1:10	# 15 < 1:10	# 15 < 1:10	Ø 12.7 x 45
# 19 x 50	# 19 x 50	# 19 x 50	# 11 x 45 (ISO)
Ø 20 x 60	Ø 20 x 60	Ø 17.3 x 60	
Ø 17.3 x 60	Ø 17.3 x 60	# 14.8 x 60	
# 14.8 x 60	# 14.8 x 60	Ø 20 x 60	
Ø 18 x 80			

04 WEDGE HAMMERS

Pneumatic wedge hammers PERMON are used in stone working operations during the stone block division and for further stone working. It is applied mostly for breaking large pieces of rock for construction purposes or in the location where blast down is impossible (mining rock salt for food industry).

- HIGH PERFORMANCE
- SIMPLE CONSTRUCTION ENABLES EASY MAINTENANCE AND REPAIR WORKS
- SIMPLE REPLACEMENT CASING FOR USING MULTIPLE TOOLS

CHARACTERISTICS

Wedge hammers operate on the same principle as the pick hammers. The difference is their work tool which is not fixed to the hammer. Compressed air is supplied via the start value in the slide value distribution which alternately fills the upper and lower area of the roller and provides the direct return movement of the piston. In the lower dead centre the piston hits the tools and passes power which performs work via the tools. Consumed air leaves via the air damper.



Туре	Weight	Dimensions	Air consumption	Tool shank	Operating pressure
KK 9-1 BL	9 kg	275 × 340 mm	1,1 m₃/min	1:12	4 - 6 bar
KK 9-1 BN	9 kg	275 × 340 mm	1,1 m₃/min	1:10	4 - 6 bar

05 RIVETING HAMMERS

CHARACTERISTICS

The riveting hammers are used for creating non-collapsible connections by means of rivets. The riveting set inserted in the riveting hammer and pneumatic riveting tool creates the rivet head.

Туре	Weight	Dimensions	Air consump.	Operating pressure	Connective thread	Noise	Vibrations
SK9-NK	9,8 kg	236×470mm	0,9m³/mi	4 - 7 bar	R3/4"	105	9,1 m/s²
			n			dB	
SK13-NK	13,8 kg	236×612mm	0,9m³/mi	4 - 7 bar	R3/4"	105	13,3 m/s²
			n			dB	

Pneumatic riveting tool. The tool is used for pushing the riveting set to create the rivet head.





JOLT HAMMERS

CHARACTERISTICS

The jolt hammers are designed for use in foundry where they operate as a part of Jolt boxes. The vibrations release and divide the foundry sand from the casting.

Туре	Tool	Adherence pressure	Number of impacts	Air consump.	Hammer length	Weight	Connective thread	Impact power	Noise
VKK 29	0 30,8 × 108 mm	400-600 N	32,5 Hz	4,2 m₃/min	665 mm	28 kg	G3/4", RS	62 J	103 db
SKK 12-3	0 25 × 75 mm		18,3 Hz		650 mm	15 kg	G3/4", RS	35 J	105 db



06 Down-the-hole hammers (DTH)

Down-the-hole hammers PERMON are technically perfect tools with high drilling performance. They are suitable for all types of rock and include long service life. The hammers contain the patent protected technical innovations increasing the operating reliability and they guarantee quality, resistance, and performance coupled with wide choice of accessories.

- PROVEN HIGH PERFORMANCE
- REDUCED AIR CONSUMPTION
- HIGHER SERVICE LIFE OF SPARE PARTS
- REDUCED COSTS FOR DRILLING
- LONG LASTING CONTINUAL AND DEFECT-FREE USE
- SIMPLE DESIGN
- SIMPLE REPAIRS WITHOUT SPECIAL TOOLS
- REACHING HIGHER LENGTHS OF THE DRILLS THAN IN COMPARABLE DRILLING HAMMERS
- GREAT RINSING PROPERTIES

DOWN-THE-HOLE HAMMERS / HAMMERS



CHARACTERISTICS

DTH series VKP with drilling bit (hereinafter referred to as the drilling hammer) are designed for drilling long bores in rocks of various solidity, particularly in quarries for the purposes of blasting works. The length of the bore is limited by the capabilities of the particular drilling set, mainly by the ability to remove the debris from the bore, which depends on the bore's diameter, type of rock, operating air pressure and the type of drill bit used.

Name VKP	Weight (kg)	diameter	Length	Oper.	A	ir consum	ption at	Connective thread	Recommended maximum
Name VKP		(mm)	(mm)	pressure	6bar	12bar	18bar	connective thread	diameter of bore (mm)
VKP 70	10,3	62	670	6-15bar	1,8	3,8	-	Rd 50 vnitřní	70-80
VKP 80	15,4	72	716	6-15bar	2,1	4,6	-	Rd 50 vnitřní	80-95
VKP 3,5 18 bar	22,6	81	828	6-18bar	2,5	6	9	API 2 3/8'' vnitřní	89-105
VKP 3,5 DHD 18 bar	22,7	81	839	6-18bar	2,5	6	9	API 2 3/8'' vnitřní	89-105
VKP 3,5"N DHD W	22,7	81	839	6-18 bar	2,5	6	9	API 2 3/8" vnitřní	89-105
VKP 100	24,3	87	794	6-15bar	3,4	7,3	-	API 2 3/8'' vnitřní	95-135
VKP 100 DHD	25	87	794	6-12bar	3,1	6,2	-	API 2 3/8'' vnitřní	95-135
VKP 105K	20	97	550	6-15bar	2,8	6,5	-	WIRT	90-105
VKP 105K DHD	20	97	550	6-12bar	2,8	6,5	-	WIRT	90-105
VKP 110-1	34,1	97	916	6-15bar	3,6	9	-	API 2 3/8'' vnitřní	110-152
VKP 110-1 DHD	34,2	97	917	6-12bar	3,6	9	-	API 2 3/8'' vnitřní	110-152
VKP 130-1	59,5	120	988	6-15bar	3,5	8,6	-	API 2 3/8'' vnitřní	130-165
VKP 130-1 DHD	59 <i>,</i> 5	120	988	6-12bar	3,5	8,6	-	API 3 1/2'' vnitřní	145-225
VKP 5" DHD W	66	125	1035	6-18bar	3,5	8,6	14	API 3 1/2'' vnitřní	135-165
VKP 150 QL6	78,5	142	1022	6-15bar	10	15	-	API 2 3/8'' vnitřní	160-205



It can be used for drilling water-saturated bores or bores which are completely under water. In cases of foam or water based wash-out, the hammer drill can be used in confined areas such as inside an underground mine.

The basic design is intended for the use with Permon tops. Alternative version is designed solely for the use with DHD tops. Depending on the rock, it is necessary to select the type of pins and optimum bit rotation. The drilling in solid and rocks easy for drilling enables the use of bits with ballistic pins. The drilling in disturbed rocks is provided with bits with ball pins.

DOWN-THE-HOLE HAMMERS / DRILL BITS

CHARACTERISTICS

The drill bits are designed for DTH series VKP. They are used for the energy transfer of the hammer piston on the disturbed rock. The bits are used for drilling in rocks. Generally, the drill bits show longer service life and higher drilling performance in comparison to classic drilling bits with the plated edge.



PRODUCT RANGE OF DRILL BITS

			PERMON too shank	I			QL6 tool shank
9550250	9550180	9550320	9550220	9550140	9550240	9550361	9550310 ⁴
VKP 70	VKP 80	VKP3,518bar	VKP 100	VKP 105K	VKP 110-1	VKP 130-1	VKP 150 QL6
KR70-75JBBS	KR80- 85DBBS	KR95- 100DBBS	KR95- 105DBBS	KR 110-1	15DBAS	KR130-145DCAS	KR 165 B QL6
KR70-80JBBS	KR80- 90DBBS	KR95- 95DBBS		KR 110-15	50DCAS-Z	KR130-150DCAS- Z	KR165JBESQL6
				KR 110-1	25DBAS	KR130-165DCAS- Z	KR 165 K QL6
				KR 110-1	.35DBAS	KR130- 185DCAP-Z	KR171JBESQL6
				KR 110-18	BOSKAP-Z	KR165BVKP130	KR 178 B QL6
		KR95-95DKBS	KR95- 105DKBS	KR 110-1	.35DCAS	KR130-225SCAP- Z	KR203JKESQL6
		KR95- 100DKBS		KR 110-1	.35DKAS	KR130-150DBAS- Z	KR150-225SCAP- Z
		KR95- 105DKBS		KR 110-15	SODBAS-Z	KR130-165DBAS- Z	
				KR 110-1	15DKAS		

Note—green marked bits are custom made, 4 – shorten the bit tube to 45-48mm

			DHD tool shank			
9550330 1	9550400 ₂	9550221 ₃	9550241 1	9550360 4	9550390 4	9550410
VKP 3,5 DHD 18 bar	VKP3,5"NDHD W	VKP 100 DHD	VKP110-1DHD	VKP130-1DHD	VKP 5" DHD W	VKP105K DHD
KR95BDHD3,5	KR95BDHD3,5	KR102KDHD3,5	KR115BDHD340	KR 152 B	DHD 350	KR115BDHD340
KR100BDHD3,5	KR100BDHD3,5	KR105BDHD3,5	KR135BDHD340	KR 165 B	DHD 350	KR135BDHD340
KR102KDHD3,5	KR102KDHD3,5		KR150BDHD340	KR 130-22	25 SCAP-Z	KR150BDHD340
KR105BDHD3,5	KR105BDHD3,5		KR110- 180SCAP-Z			KR110- 180SCAP-Z

Note.1-reduce the bit tube to 45-46mm, 2-not fitted with tube, 3- reduce the bit tube 42-43mm,4-reduce the bit tube45-48mm

07 DRILLING HAMMERS

The drilling hammers PERMON are included in the weight category of light to medium heavy drilling hammers and they are used for drilling holes during secondary disconnection of rocks drilled with charge in quarry operations, during the construction of roads and railways, in construction.

- ROBUST CONSTRUCTION
- SIMPLE MAINTENANCE
- HIGH FREQUENCY OF IMPACTS
- LONG LASTING SERVICE LIFE
- SUITABLE FOR EXPLOSIVE ENVIRONMENT
- SPRUNG HANDLE UPON REQUEST

DRILLING HAMMERS / DRILLING HAMMERS



Туре	Weight	Dimensions	Air consumption	Tool stop	Air operating pressure	Noise	Vibrations
VKA17	17,5 kg	455×643mm	2,8 m₃/min	Ø 19 × 108, 22 × 108	4 - 7 bar	117 dB	8,6 m/s²
VK23-5	27 kg	280×715mm	4 m₃/min	Ø22×108,22×82,25×108	4 - 6 bar	117 dB	19,9 m/s²
VK29-5	30 kg	280×740mm	4 m₃/min	Ø 22 × 108, 25 × 108	4 - 6 bar	118 dB	24,5 m/s ²
NVK03	26 kg	22×680mm	4,3 m₃/min	Ø 22 × 108, 25 × 108	3 - 4,5 bar	103 dB	44,7 m/s²

DRILLING HAMMERS / SLIDE DRILLING HAMMERS



Туре	Weight	Dimensions	Air consumption	Tool shank	Operational air pressure
VKS 45	45 kg	300 × 615 mm	6,4 m₃/min	#25×159, 22×108, 25×108	4 - 6 bar
VKS 80	80 kg	300 × 840 mm	8,5 m₃/min	32 (11/4")	4 - 6 bar
VK 35	36 kg	22 × 108 mm	5,2 m₃/min	# 22×82,5	4 - 7 bar

DRILLING HAMMERS / HYDRAULIC SLIDE HAMMERS

Туре	Weight	Dimensions (mm)	Rinsing	Start bar stopper	Total consumption	Impact power	Max. pressure in rotation	Max pressure in impact part
HVKS 125	130 kg	950 × 295 × 266	central	32 (11/4")	65 L/min	0-250 J	120-175 bar	130-200 bar
HVHS 125-2PV	140 kg	1067 × 295 × 266	Rinsing head	38 (11/2")	65 L/min	0-250 J	120-175 bar	130-200 bar

Operatir	ng oils	Volume speed		
Drifter gear	Separate rotation	Drifter gear	Separate rotation	
18 MPa	12 MPa	75 . min-1	75 . min-1	

HVKS 125





08 RAMMERS, AIR- SHOVEL, AND OTHER /

RAMMERS, AIR- SHOVEL, AND OTHER / PNEUMATIC PUSHER LEGS

Туре	Weight	Max extraction length	Max thrust force	Operating pressure
VP 600	14 kg	600 mm	1000 N	4 - 6 bar
VP 800	16 kg	800 mm	1000 N	4 -6 bar
VP 1000	18 kg	1000 mm	1000 N	4 - 6 bar
VP 1200	19 kg	1200 mm	1000 N	4 - 6 bar



RAMMERS, AIR- SHOVEL, AND OTHER / PNEUMATIC SCRAPER

- MULTIPURPOSE USE
- ADJUSTED TUBES EXTEND THE TOOL REACH
- RESISTANCE TO THE EFFECTS OF CONTAMINATED ENVIRONMENT IN HEAVY OPERATIONS, LONG SERVICE LIFE OF TOOLS IN PERMANENT OPERATIONS
- SIMPLE OPERATORS AND MAINTENANCE

Operating Air Туре Weight Start bar Dimensions (mm) consumption pressure stopper PS 4-1 4,3 kg 113 × 775 0,2 m³/min # 19 × 50 4 - 6 bar (+420+420)

CHARACTERISTICS

Pneumatic scraper PERMON, based on the selection of tools, is used on construction – light demolition works, grooving, aligning, puncture, removal of plaster, and all types of floor tiles, and also in other fields - bark removal from trees etc., removal of burrs in foundries and asphalt coating from the roads.



RAMMERS, AIR- SHOVEL, AND OTHER / RAMMERS

- SIMPLE CONTROL
- LONG LASTING OPERATING RELIABILITY
- MULTIPURPOSE USE
- SIMPLE OPERATORS AND MAINTENANCE
- MATERIAL RESISTANCE
- REDUCED VIBRATION LEVEL TRANSFERRED TO THE OPERATORS

CHARACTERISTICS

Pneumatic rammers PERMON are used for pressing the forming materials, particularly in foundry technology and in places for pressing non-solid materials. It includes foundry sand in the rollers, nuclear, extensive casting moulds for pressing works, e.g. pressing fireproof lining in high furnaces.



Pneumatic rammer P1 is suitable especially for work on the worktop or for small surfaces, e.g. pressing small cores, etc. It is also used in construction and various works for material compacting.

PK 2, 3, 4



Туре	Weight	Dimensions	Air consumption	Operating pressure
P1	2.5 kg	65 × 320 mm	0.2 m₃/min	4 - 6 bar
РК9	9 kg	80 × 1280 mm	0,6 m₃/min	4 - 6 bar
PK11	11 kg	80 × 1345 mm	0,55m₃/min	4 - 6 bar
PK 2,3,4	4,9; 5,3; 5,5 kg	80 × 620-1145 mm	0,3 m₃/min	4 - 6 bar

RAMMERS, AIR- SHOVEL, AND OTHER / AIR SHOVEL

CHARACTERISTICS

Air shovel is used for simple disruption of less solid materials. The air shovel is used for disruption and ploughing of compact soil, finding and releasing cables and lines, blowing and cleaning dilation joints, removal of contamination from the street channels, aerating and releasing tree roots, releasing the rails and signalling devices, and for removing old plasters.

After connecting the shovel to the distribution, the air flows in the unit. Press the control lever to allow air flow in the pin area, which alternately opens and closes air flow in the operating cycle in the extension tube, it is terminated with the outlet jet, and the air accelerates.

SIMPLE CONTROL

• THE OPTION OF REPLACEABLE EXTENSION NON-CONDUCTIVE TUBES



Туре	Weight	Number of impacts	Air consumption	Hammer length	Connection thread	Noise	Vibrations
VL 5	4,5 kg	145 Hz	2,0 m₃/min	480 mm	RS, G 1/2	116 dB	1,9 m/s²

PNEUMATIC TOOLS ACCESSORIES

PERMON offers also professional accessories to the qualified and certified tools, such as tools, connection material, and consumption material.

- DRILLING BARS, JOINTS .
- DRAGS, CUTTERS, CHISELS .
- **DRILLING BITS**
- **REDUCTION OF DRILLING TUBES WITH** VARIOUS THREAD TYPE
- **DRILLING TUBES** .
- **EXTRACTION MANDRELS** •
- HOSES, SLEEVES, CLAMPS, NUTS, QUICK . **COUPLING, REDUCTION**
- **OIL APPLICATORS** •
- ECOLOGICAL REMOVABLE OIL FOR . GREASING





Oil

volume

1 L

0,35 L

0,5 L

Weight

9,5 Kg

19 Kg

1,7 Kg

3 Kg

Туре

AOV 6

SOOR6

LR 1

LR 3

Max. air flow

6 m₃/min

6 m₃/min

0,3 - 0,70 m₃/min

0,3 - 0,70 m₃/min



AOV 6

Hammer

length

500

502

230

260

SOOR

















CUSTOM PRODUCTION

Do you need special tools for your production which are not available in our offer but you would like to receive it from us? We offer custom made production. Based on your drawings or the basic specification we will take care of everything – from the design, calculations, technical documentation, provision of components, and completion.

The cooperation with the experts, who every day supervise the development, production, and testing of every piece of tools, enables us to provide reliable devices, custom made to suit your requirements. Check our professional products, forts class quality that we offer and guarantee.





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