

TOOLS FOR THE SPECIALIST UNDERWATER TOOLS

PNEUMATIC



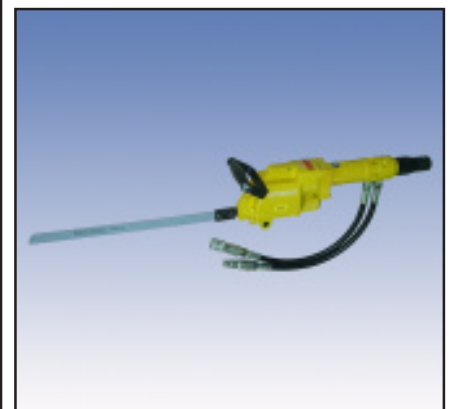
HYDRAULIC



UNDERWATER
OPERATION



ATEX
Guideline 94/9 EC



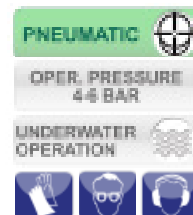
PNEUMATIC TOOLS

Performance data at an operating pressure of 6 bar (cont. flow).

ANGLE GRINDER

This handy angle grinder is particularly usable in tight spaces even under water.

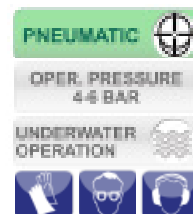
The exhaust air is discharged backwards through the working hose.



	Disk dia. max.	Free speed	Power	Air consumption	Noise level	Vibrations level	Connection	Hose ID	Weight
Order no.	mm	rpm	kW	m³/min	dB(A)	m/s²		mm	kg
1 4311 0050	125	11,600	0.9	1.00	88.5	<2.5	R1/4"female	10	2.5

AXIAL DIE GRINDER

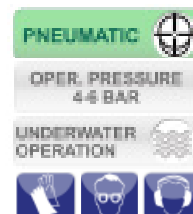
This grinder can be used for all small grinding work, also under water.



	Free speed	Power	Air consumption	Collet	Exhaust- air guide	Machine length	Noise level	Vibration level	Connection	Weight
Order no.	rpm	kW	m³/min	mm		mm	dB(A)	m/s²		kg
1 5077 0010	20,000	0.7	0.85	6	rear	246	85.9	<2.5	R1/4"female	1.4

IMPACT WRENCHES

Particularly developed for underwater application.



	Square drive	for screws up to	Max. torque*	Air consumption	Distance centre/outer edge	Connection inlet/outlet	Hose ID	Noise level	Vibration level	Weight
Order No.	mm	Nm	m³/min	mm			mm	dB(A)	m/s²	kg
6 1316 0070	3/4"	M30	1,350	1.40	45.0	R 1/2" female/ R 1/2" male	13	96	6.2	5.6
6 1316 0060	1"	M30	1,350	1.40	45.0	R 1/2" female/ R 1/2" male	13	96	4.5	5.5

*The specified max. torque refers to screws of strength class 8.8

CHAIN SAW

This chain saw is the best tool for cutting wood also underwater.



	ATEX Guideline 94/9 EC	Housing material	Blade length	Blade length usable	Length without blade	Air consumption	Power	Connection	Hose ID	Chain brake time	Noise level	Vibration level	Weight w/o blade and chain
Order no.			mm	mm	mm	m³/min	kW		mm	s	dB(A)	m/s²	kg
5 1028 0010	II2GcT5	aluminium	520	430	400	2.9	3.0	R 3/4" female	15	<0.12	102.6	<2.5	8.5

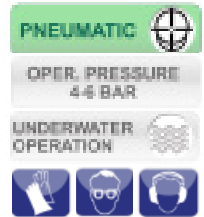
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PNEUMATIC TOOLS

Performance data at an operating pressure of 6 bar (cont. flow).

DRILLS

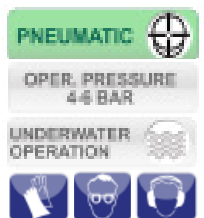
Handy and universally usable, drill chuck up to 13 mm drilling diameter, usable as well under water.



	Drill chuck (geared chuck)	Speed	Power	Drilling capacity in steel	Air consumption	Length incl. drill chuck	Connection inlet/outlet	Hose ID	Noise level	Vibration level	Weight
Order no.	mm	rpm	kW	mm	m³/min	mm	mm	mm	dB(A)	m/s²	kg
2 1267 0010	10	1,550	0.50	10	0.60	235	R1/4"female / R3/8"female	≥10	84	<2.5	2.1
2 1268 0010	13	850	0.50	13	0.60	245	R1/4"female / R3/8"female	≥10	84	<2.5	2.1

PISTOL HAMMER DRILL

Drilling in concrete, stone, masonry, iron and steel is possible by easy start and stop of the impact mechanism - usable as well under water.



	Drill chuck (geared chuck)	Speed	Power	Drilling capacity in steel/masonry	Air consumption	Length incl. drill chuck	Connection inlet/outlet	Hose ID	Noise level	Vibration level	Weight
Order no.	mm	rpm	kW	mm	m³/min	mm	mm	mm	dB(A)	m/s²	kg
2 1266 0010	13	950	0.50	13 / 20	0.60	300	R1/4"female / R3/8"female	≥10	84	<2.5	3.3

HAMMER DRILL - SDS-plus shank holder

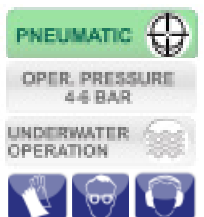
Drilling up to 28 mm in concrete.
Impact mechanism can be switched on and off.
Usable as well under water.



	ATEX Guideline 94/9 EC	Free speed	Power	Blows per minute	Drilling capacity in steel/masonry	Air consumption	Length incl. drill chuck	Connection inlet/outlet	Hose ID	Noise level	Vibration level	Weight
Order no.		rpm	kW	rpm	mm	m³/min	mm	mm	mm	dB(A)	m/s²	kg
2 2404 0040	II2GcT6	420	0.50	3,000	28/50	0.60	410	R1/2"female/ R3/8"female	≥10	93	4.5	6.6

HAMMER DRILL - SDS-max shank holder

Drilling up to 50 mm in concrete. Impact mechanism can be switched on and off.



	Free speed	Power	Blows per minute	Drilling capacity in steel/masonry	Air consumption	Length incl. drill chuck	Connection inlet/outlet	Hose ID	Noise level	Vibration level	Weight
Order no.	rpm	kW	rpm	mm	m³/min	mm	mm	mm	dB(A)	m/s²	kg
2 2417 0010	250	1.5	2,500	50/80	1.50	490	R1/2"female/ hose fitting	≥13	90.4	9.2	15.8

(Subject to change without notice)

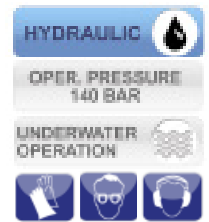
HYDRAULIC TOOLS

1/2" FF -Flat-Face coupling, ISO 16028, 1/2"BSP/BG2
Performance data at an operating pressure of 140 bar (cont. flow)

AXIAL GRINDER

This powerful hydraulic grinder is ideally suited for hard grinding work and for underwater work.

Max. disk diameter 200 mm.

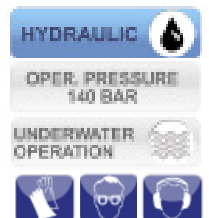


	Disk diameter max.	Collet	Free speed	Power	Tool holder	Oil flow	Noise level	Vibration level	Connection	Weight without hoses
Order no.	mm	mm	rpm	kW	mm	l/min	dB(A)	m/s ²		kg
1 5080 0010	200	6	7,000	1.8	dia. 22,3 / M14	18	80.6	<2.5	1/2" FF	1.6
1 5080 0020	200	1/4"	7,000	1.8	dia. 22,3 / M14	18	80.6	<2.5	1/2" FF	1.6

ANGLE GRINDER

Strong angle grinder, powerful due to hydraulic drive.

Guarantees maximum cutting and removal rate.

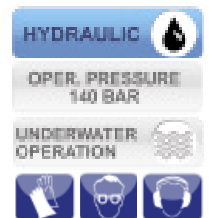


	Disk diameter max.	Free speed	Power	Tool holder	Oil flow	Noise level	Vibration level	Connection	Weight
Order no.	mm	rpm	kW	mm	l/min	dB(A)	m/s ²		kg
1 1585 0010	178	5,500	1.8	dia. 22.3 / M14	20			M18x1.5	7.6

AXIAL GRINDER

Powerful hydraulic grinder with high removal rate, also for underwater work.

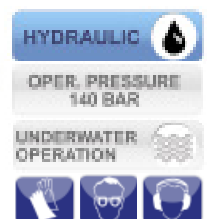
The maximum diameter of the grinding disc is 200 mm.



	Disk diameter max.	Free speed	Power	Tool holder	Oil flow	Noise level	Vibration level	Connection	Weight
Order no.	mm	rpm	kW	mm	l/min	dB(A)	m/s ²		kg
1 1580 0060	200	7,000	1,8	dia. 22.2 / M14	18	80.6	<2.5	M18x1.5	8.3

DRILL

This hydraulic drill is safely operated with both hands, as well under water.



	Shank	Free speed	Power	Torque	Tool holder	Oil flow	Noise level	Vibration level (in medium hard concrete)	Connection	Weight
Order no.		1/min	kW	Nm	mm	l/min	dB(A)	m/s ²		kg
2 3055 0010	MT 3	280	1.6	60	dia. 22.2 / M14	10-45	85.2	15.8	M18x1.5	8.5

(Subject to change without notice)

HYDRAULIC TOOLS

1/2" FF -Flat-Face coupling, ISO 16028, 1/2"BSP/BG2
Performance data at an operating pressure of 80/140 bar (cont. flow)

RECIPROCATING SAWS - Industrial / Mining Design

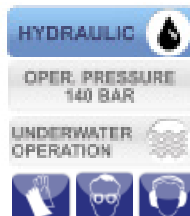
Our hydraulic reciprocating saw with powerful drive, increased cutting speed and safety lever control.



	ATEX Guideline 94/9 EC	Housing material	Valve	Power	Stroke	Number of strokes	Oil flow	Vibration level	Noise level	Connection	Hose ID	Weight
Order no.				kW	mm	rpm	l/min	m/s ²	dB(A)		mm	kg
5 1220 0010	II2GcT5	aluminium	twist	2.8	60	500	10-50	<2.5	86	12 S	12	6.1
5 1220 0050		aluminium	lever	2.8	60	500	10-50	<2.5	86	12 S	12	6.1

SABRE SAW - Industrial Design

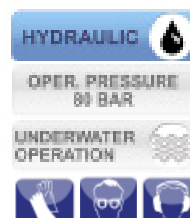
The hydraulic sabre saw for hardest cutting demands with higher driving performance as well for underwater use.



	Cutting capacity wood	steel	Power	Stroke	Number of strokes	Oil flow	Noise level	Vibration level	Hose ID	Weight
Order no.	mm	mm	kW	mm	rpm	m ³ /min	dB(A)	m/s ²		kg
5 1219 0010	160	19	1.50	28	1,500	22-50	89.4	<2.5	M18x1.5female	6.0

HAMMER DRILL - SDS-plus shank

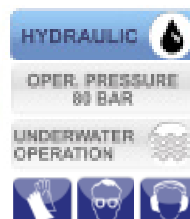
Drilling up to 28 mm in concrete. Impact mechanism can be switched on and off. Usable as well under water.



	Free speed	Power	Blows per minute	Drilling capacity concrete/masonry	Oil flow	Length incl. drill chuck	Connection	Noise level	Vibration level	Weight
Order no.	rpm	kW	rpm	mm	l/min	mm	mm	dB(A)	m/s ²	kg
2 2406 0010	500	1.2	4,460	28/50	15-45	460	1/2" FF	92	4.5	8.2

HAMMER DRILL - SDS-max shank

Drilling up to 50 mm in concrete. Impact mechanism can be switched on and off. Usable as well under water.



	Free speed	Power	Blows per minute	Drilling capacity concrete	Oil flow	Length incl. drill chuck	Connection	Noise level	Vibration level	Weight
Order no.	rpm	kW	rpm	mm	l/min	mm	mm	dB(A)	m/s ²	kg
2 2418 0010	270	1.2	2,300	50	15-45	640	1/2" FF	92	9	14.0

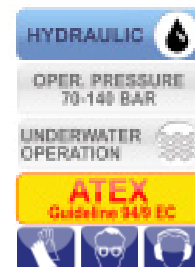
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HYDRAULIC TOOLS

1/2" FF -Flat-Face coupling, ISO 16028, 1/2"BSP/BG2
Performance data at an operating pressure of 140 bar (cont. flow)

IMPACT WRENCHES

Universally usable hydraulic impact wrench, also for diving work.

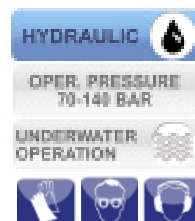


	ATEX Guideline 94/9 EC	Square drive	for screws up to	Max. torque*	Oil flow (adjustable)	Distance centre/outer edge	Connection	Noise level	Vibration level	Weight
Order no.			mm	Nm	l/min	mm		dB(A)	m/s ²	kg
6 1515 0010	II2GcT6	3/4"	M30	1,700	20-40	45.0	M18x1.5	85.3	3.8	7.3
6 1514 0010	II2GcT6	1"	M30	1,700	20-40	45.0	M18x1.5	85.3	3.8	7.3

*The specified max. torque refers to screws of strength class 8.8

IMPACT WRENCH

Powerful hydraulic impact wrench, especially designed for underwater work.

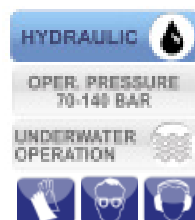


	Square drive	for screws up to	Max. torque*	Oil flow (adjustable)	Distance centre/outer edge	Connection	Noise level	Vibration level	Weight
Order no.	mm		Nm	l/min	mm		dB(A)	m/s ²	kg
6 1520 0010	1"	M36	2,200	25-45	60.0	M18x1.5	99.2	6.75	10.7

*The specified max. torque refers to screws of strength class 8.8

CORE DRILL

The most powerful hydraulic and hand- operated core drill unit up to 160 mm drill diameter.



	Free speed	Power	Torque	Oil flow (adjustable)	Length (hight)	Drill bits diameter up to	Connection	Weight
Order no.	rpm	kW	Nm	l/min	mm	mm		kg
2 1317 0030	380 / 900 / 1,800	2.8	60 / 37 / 17	22-45	490	160	M18x1.5	8.5

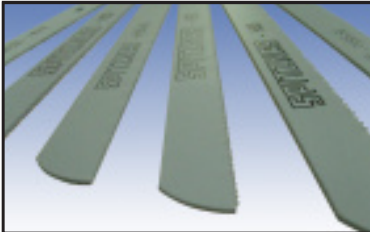
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ACCESSORIES



Grinding Wheels and Milling Cutters

- Cutting Wheels
- Grinding Wheels
- Mounting Pins
- Brushes
- Flap Grinding Wheels
- Milling Cutters



Saw Blades

- Reciprocating Saw Blades
- Sabre Saw Blades

quality:

- HSS
- HSS-SL
- carbide tipped

with various T.P.I. and 150 mm up to 940 mm length.



Drills

type:

- Straight shank
- SDS-plus
- SDS-max
- Morse taper shank (MT)



Quick-release Chucks

Quick-release chucks allow quick changing of drill bits without using tools.



Core Bits and Drill Rigs

- Specific for core drills
- Core bits of various types and for various applications
- Drill rigs allow drilling big diameters and at specific angles (as well spot drilling of pipes at required angles)
- Additional accessories for water cooling, i.e. an additional water tank, allow independent working from the distribution network.



Sockets, Adapters and Extensions

type:

- standard (short)
- special (long)
- non-sparking

Focus on quality by relying on us.



Clamps and Accessories for square cuts

for:

- pipes
- profiles
- special shapes

type:

- mechanic
- automatic

special device:

- Magnet Clamp Device

Suspension Device

Individual suspension devices can be delivered for each machine. This makes work easier and allows comfortable handling of the machine. Ask for your individual solution.

GENERAL ACCESSORIES



Safety Block

The hydraulic safety block is used for reducing the input pressure of max. 350 bar (5000 psi) at max. volume flow of 50 L/min. (13 gpm) to an output pressure of 80 bar (1160 psi).



Service Units

We custom-assemble mobile service units for your individual application and offer it with the machine.



Hydraulic Oil

Naturally, biodegradable oil is available on request for your maintenance unit or your hydraulic equipment.



Hydraulic Power Pack

We offer the appropriate hydraulic power pack for your individual application, powered by electric, gasoline or diesel driven motors.



Care

We recommend our special spray for the maintenance of your machine.



Transport case

We offer transport cases for the comfortable and safe transport of your machine.

Operating Instruction for Underwater Tools

Before underwater operation :

- Test the machine for leakage
- Test all functions of the machine (drilling, blowing, all moving parts, valves)
- Spray all moving parts with lubricant OKS 8601 (or similar)

After underwater operation :

- Clean the machine
- Dry the machine with compressed air
- Spray all moving parts with lubricant OKS 8601 (or similar)

For additional information see the special operating and maintenance manual.

For long-life operation of the machine we recommend a general overhaul (after 3 months of use) made by SPITZNAS. Lubricant OKS 8601 = Spitznas Part Number 9 9902 0120



SPITZNAS

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