

TECHNISCH BUREAU

DUSPRA



SPITZNAS

CUSTOMIZED POWER SOLUTIONS

SPITZNAS
CUSTOMIZED POWER SOLUTIONS

UNDERWATER TOOLS

TOOLS FOR THE SPECIALIST

PNEUMATIC



HYDRAULIC



CHAIN SAW

PNEUMATIC

Our pneumatic chain saw with additional connection for the air exhaust.
More chain bar lengths on request.



ORDER NO.	PNEUMATIC		OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION		Hose ID	Vibration level	Weight without chain bar/chain
	Chain bar length usable	Power	Air consumption	Length without chainbar	Air inlet	Air outlet			
	mm	kW	m ³ /min	mm			mm	m/s ²	kg
5 1028 0010	430	3.0	2.9	400	R3/4"female	R3/4"female	15	<2.5	8.5

Subject to technical change.

Performance data at an operating pressure of 6 bar.

PISTOL DRILLS

PNEUMATIC

Our handy and universally usable pneumatic pistol drills,
type 2 1268 0010 with drill chuck up to 13 mm diameter.



ORDER NO.	PNEUMATIC		OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION		Hose ID	Vibration level	Weight	
	Drilling capacity in steel	Speed (free)	Power	Air consumption	Length incl. drill chuck	Air inlet				Air outlet
		rpm	kW	m ³ /min	mm		mm	m/s ²	kg	
2 1267 0010	10	1,550	0.5	0.6	235	R1/4"female	R3/8"female	10	<2.5	2.1
2 1268 0010	13	850	0.5	0.6	245	R1/4"female	R3/8"female	10	<2.5	2.3

Subject to technical change.

Performance data at an operating pressure of 6 bar.

PISTOL HAMMER DRILL

PNEUMATIC

Our pneumatic pistol hammer drill for multipurpose use. Drilling in concrete, stone,
masonry up to 20 mm diameter, iron and steel up to 13 mm diameter.
Impact mechanism can be switched on and off.



ORDER NO.	PNEUMATIC		OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION		Air inlet	Air outlet	Vibration level	Weight
	Drilling capacity in Steel	Drilling capacity in Masonry	Drill chuck (geared) up to dia. max.	Speed (free)	Power	Air consumption				
	mm	mm	mm	rpm	kW	m ³ /min	mm		m/s ²	kg
2 1266 0010	13	20	13	950	0.5	0.6	300	R1/4"female R3/8"female	<2.5	3.3

Subject to technical change.

Performance data at an operating pressure of 6 bar.

HAMMER DRILL SDS-PLUS

PNEUMATIC

Our hydraulic hammer drill with SDS-plus shank for drilling
up to 28 mm diameter in concrete.
Impact mechanism can be switched on and off.



ORDER NO.	PNEUMATIC		OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION		Air inlet	Air outlet	Vibration level	Weight
	Drilling capacity in concrete	Speed (free)	Power	Blows per minute	Air consumption	Dimensions Length Height Width				
	mm	rpm	kW	rpm	m ³ /min	mm mm mm			m/s ²	kg
2 2404 0040	28	625	0.5	3,000	0.6	410 240 100	R1/2"female	R3/8"female	4.5	6.3

Subject to technical change.



Performance data at an operating pressure of 6 bar.

HAMMER DRILL SDS-MAX

PNEUMATIC

Our hydraulic hammer drill with SDS-max shank for drilling up to 50 mm diameter in concrete. Impact mechanism can be switched on and off.



ORDER NO.	PNEUMATIC 			OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION 			Air inlet	Air outlet	Vibration level	Weight
	Drilling capacity in concrete	Speed (free)	Power	Blows per minute	Air consumption	Dimensions						
	mm	rpm	kW	rpm	m ³ /min	Length	Height	Width			m/s ²	kg
2 2417 0010	50	250	1.5	2,500	1.5	640	125	275	R3/8"female	R1/2"female	9.2	13.3

Subject to technical change.



Performance data at an operating pressure of 6 bar.

CORE DRILL UNITS

PNEUMATIC

Our pneumatic core drill units with three gear stages for all hand-operated drilling up to 82 mm diameter, or with drill rig up to 160 mm diameter in concrete, stone and masonry.



ORDER NO.	PNEUMATIC 			OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION 			Air inlet/ outlet	Hose ID	Vibration level	Weight
	Speed (free)			Power	Air consumption	Length	Drill bit adapter					
	1. Gear	2. Gear	3. Gear	kW	m ³ /min	mm			mm	m/s ²	kg	
2 1353 0010	400	900	1,600	1.6	2.2	540	1 1/4"UNCmale/R1/2"female	R3/4"male/R1"male	15	<2.5	8.2	
2 1355 0010	300	700	1,350	2.8	3.5	594	1 1/4"UNCmale/R1/2"female	R3/4"male/R1"male	15	<2.5	9.2	

Subject to technical change.



Performance data at an operating pressure of 6 bar.

IMPACT WRENCHES

PNEUMATIC

Our powerful pneumatic impact wrenches with slim design. *The specified max. torque refers to screws of strength class 8.8.



ORDER NO.	PNEUMATIC 			OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION 			Air inlet	Air outlet	Hose ID	Vibration level	Weight
	Square drive	Max. torque*	For screws up to	Air consumption	Distance centre/ outer edge								
		Nm	mm	m ³ /min	mm					mm	m/s ²	kg	
6 1316 0070	3/4"	1,350	M30	1.4	45			R1/2"female	R1/2"male	13	4.5	5.6	
6 1316 0060	1"	1,350	M30	1.4	45			R1/2"female	R1/2"male	13	4.5	5.7	

Subject to technical change.



Performance data at an operating pressure of 6 bar.

AXIAL DIE GRINDER

PNEUMATIC

Our smallest pneumatic axial die grinder for milling cutters and grinding wheels. The exhaust air is discharged separately.



ORDER NO.	PNEUMATIC 			OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION 			Air inlet	Hose ID	Vibration level	Weight
	Collet*	Speed (free)	Power	Air consumption	Exhaust air guide	Machine length						
	mm	rpm	kW	m ³ /min		mm			mm	m/s ²	kg	
1 5077 0010	6	20,000	0.7	0.85	rear	246		R1/4"female	10	<2.5	1.4	

Subject to technical change.

*more types available



Performance data at an operating pressure of 6 bar.

ANGLE GRINDER

PNEUMATIC

Our handy angle grinder is particularly usable in tight spaces. The exhaust air is discharged separately.



ORDER NO.	PNEUMATIC 		OPERATING PRESSURE 6 Bar		UNDERWATER OPERATION 							
	Disc dia. max.	Speed (free)	Power	Air consumption	Tool holder	Dimensions			Air inlet	Hose ID	Vibration level	Weight
	mm	rpm	kW	m ³ /min	mm	Length	Height	Width		mm	m/s ²	kg
1 4311 0050	125	11,600	0.3	1.00	∅22.2/M14	227	101	223	R1/4"male	10	<2.5	2.5

Subject to technical change.

Performance data at an operating pressure of 6 bar.



RECIPROCATING SAWS

HYDRAULIC

Our hydraulic reciprocating saws for use in open circuit with powerful drive, increased cutting speed and safety lever control or twist throttle.

Only usable with a clamp.



ORDER NO.	HYDRAULIC (open circuit) 		OPERATING PRESSURE 90-140 Bar		UNDERWATER OPERATION 				
	Valve	Power	Volume flow	Stroke	Number of strokes	Hydraulic hose/ Quick coupling		Vibration level	Weight
		kW	l/min	mm	rpm			m/s ²	kg
5 1230 0010	Twist throttle	2.8	10-50	60	300	Flat-Star A250-OM/OF-1/2"BSP		<2.5	11.0
5 1230 0050	Lever control	2.8	10-50	60	300	Flat-Star A250-OM/OF-1/2"BSP		<2.5	11.0

Subject to technical change.



Performance data at an operating pressure of 90 bar.

SABRE SAW

HYDRAULIC

Our hydraulic sabre saw for use in open circuit with higher driving performance for hardest cutting demands.



ORDER NO.	HYDRAULIC (open circuit) 		OPERATING PRESSURE 90-140 Bar		UNDERWATER OPERATION 					
	Cutting capacity		Power	Volume flow	Stroke	Number of strokes	Hydraulic hose/ Quick coupling		Vibration level chipboard/wooden beam	Weight
	Wood	Steel	kW	l/min	mm	rpm			m/s ²	kg
5 1219 0010	160	19	1.5	22-50	28	1,500	Flat-Star A250-OM/OF-1/2"BSP		15.9/19.3	6.0

Subject to technical change.



Performance data at an operating pressure of 90 bar.

CHAIN SAW

HYDRAULIC

Our powerful hydraulic chain saw with brake for use in open circuit and integrated pressure relief valve.
*Order number without cutting equipment, chains and chain bars are separately available.



ORDER NO.	HYDRAULIC (open circuit) 		OPERATING PRESSURE 140-200 Bar		UNDERWATER OPERATION 				
	Power	Speed (free)	Max. chain speed	Volume flow	Length without chain bar	Hydraulic hose/ Quick coupling		Vibration level	Weight without bar/chain
	kW	rpm	m/s	l/min	mm			m/s ²	kg
5 1030 0010*	7.7	5.000	13.2	40-50	530	Flat-Star A250-OM/OF-1/2"BSP		3.6	10.5

Subject to technical change.

Performance data at an operating pressure of 140 bar.

DRILLS

HYDRAULIC

The hydraulic drill with **pistol handle** is easy to handle and for universal use, with geared chuck up to dia. 13 mm, **reversible**, as well usable in explosive areas and for underwater operation.



ORDER NO.	HYDRAULIC (open circuit)	OPERATING PRESSURE			UNDERWATER OPERATION			Vibration level	Weight
	Drill chuck up to (geared chuck)	Drilling capacity in steel, max. dia.	Drilling capacity in wood, max. dia.	Speed (free)	Power	Volume flow	Hydraulic hose/ Quick coupling		
	mm	mm	mm	rpm	KW	l/min		m/s ²	kg
2 1360 0010	13.0	13.0	30.0	1,120	2.0	15-30	Flat-Star A250-OM/OF-1/2"BSP	<2.5	8.1

Subject to technical change.

Performance data at an operating pressure of 140 bar.

DRILLS

HYDRAULIC

The hydraulic drill with **D-handle** is easy to handle and for universal use, with geared chuck up to dia. 13 mm, **reversible**, as well usable in explosive areas and for underwater operation.



ORDER NO.	HYDRAULIC (open circuit)	OPERATING PRESSURE			UNDERWATER OPERATION			Vibration level	Weight
	Drill chuck up to (geared chuck)	Drilling capacity in steel, max. dia.	Drilling capacity in wood, max. dia.	Speed (free)	Power	Volume flow	Hydraulic hose/ Quick coupling		
	mm	mm	mm	rpm	KW	l/min		m/s ²	kg
2 1361 0010	13.0	13.0	30.0	1,120	2.0	15-30	Flat-Star A250-OM/OF-1/2"BSP	<2.5	7.3

Subject to technical change.

Performance data at an operating pressure of 140 bar

HAMMER DRILLS SDS-PLUS

HYDRAULIC

Our hydraulic hammer drills with SDS-max shank for use in open circuit for drilling up to 28 mm diameter in concrete. Type 2 2426 0010 with integrated pressure relief valve. Impact mechanism can be switched on and off.



ORDER NO.	HYDRAULIC (open circuit)	OPERATING PRESSURE				UNDERWATER OPERATION			Vibration level	Weight	
	Drilling capacity in concrete	Speed (free)	Power	Blows per minute	Volume flow	Dimensions Length	Height	Width			Hydraulic hose/ Quick coupling
	mm	rpm	KW	rpm	l/min	mm	mm	mm		m/s ²	kg
2 2406 0010¹⁾	28	500	1.2	3,400	15-45	460	260	102	Flat-Star A250-OM/OF-1/2"BSP	4.5	8.2
2 2426 0010²⁾	28	500	1.2	3,400	15-25	460	260	102	Flat-Star A250-OM/OF-1/2"BSP	4.5	8.2

Subject to technical change.

²⁾with integrated pressure relief valve

Performance data at an operating pressure of 80 bar.

HAMMER DRILL SDS-MAX

HYDRAULIC

Our hydraulic hammer drill for use in open circuit for drilling up to 50 mm diameter in concrete. Impact mechanism can be switched on and off.



ORDER NO.	HYDRAULIC (open circuit)	OPERATING PRESSURE				UNDERWATER OPERATION			Vibration level	Weight	
	Drilling capacity in concrete	Speed (free)	Power	Blows per minute	Volume flow	Dimensions Length	Height	Width			Hydraulic hose/ Quick coupling
	mm	rpm	KW	rpm	l/min	mm	mm	mm		m/s ²	kg
2 2418 0010	50	270	1.2	2,700	15-45	640	125	298	Flat-Star A250-OM/OF-1/2"BSP	9.0	14.0

Subject to technical change.

Performance data at an operating pressure of 80 bar.

MAGNETIC CORE DRILLS

HYDRAULIC

Our powerful hydraulic magnetic core drills for use in open circuit for drilling up to diameter 100 mm.



ORDER NO.	HYDRAULIC (open circuit)		Power	Volume flow	OPERATING PRESSURE		140-180 Bar			UNDERWATER OPERATION		Stroke	Magnetic force at 10 mm material thickness	Vibration level	Weight
	Tool holder	Speed infinitely adjustable			Drilling capacity	Drill core	Spiral drill	Taper	Reamer	Spot facer	mm				
	rpm	kW	l/min	mm	mm	mm	mm	mm	mm	mm	kg	m/s ²	kg		
2 1345 0010	MT3	40-250	2.5	20-23	100	31.75	M30	31	50	300	850	<2.5	22.5		
2 1345 0020	MT3	40-250	2.5	20-23	100	31.75	M30	31	50	300	1,500	<2.5	27.5		

Subject to technical change.

Performance data at an operating pressure of 140 bar.

CORE DRILL UNIT

HYDRAULIC

Our hydraulic core drill unit for use in open circuit for hand-operated drilling up to 82 mm diameter or with drill rig up to 160 mm diameter in concrete, stone and masonry.



ORDER NO.	HYDRAULIC (open circuit)			Power	Volume flow	OPERATING PRESSURE		90-140 Bar		UNDERWATER OPERATION		Drill bit adapter	Vibration level	Weight
	Speed(free)	1. Gear	2. Gear			3. Gear	Hydraulic hose/ Quick coupling	Hydraulic hose/ Quick coupling	Drill bit adapter	Vibration level	Weight			
	rpm	rpm	rpm	kW	l/min	Hydraulic hose/ Quick coupling	Hydraulic hose/ Quick coupling	Drill bit adapter	Vibration level	Weight				
2 1317 0030	380	900	1,800	2.8	22-45	Flat-Star A250-OM/OF-1/2"BSP	1 1/4"UNCmale / R1/2"female	<2.5	8.5					

Subject to technical change.

Performance data at an operating pressure of 90 bar.

DRILLS

HYDRAULIC

Our hydraulic drills for use in open circuit is safely operated with both hands. Type 2 3060 0010 is reversible for drilling in wood.



ORDER NO.	HYDRAULIC (open circuit)		Speed (free)	Torque	Power	Volume flow	OPERATING PRESSURE		90-140 Bar		UNDERWATER OPERATION		Hydraulic hose/ Quick coupling	Weight
	Tool holder	Speed (free)					Torque	Power	Volume flow	Hydraulic hose/ Quick coupling	Weight			
	rpm	Nm	kW	l/min	kg									
2 3055 0010	MT3	280	60	1.6	10-45	Flat-Star A250-OM/OF-1/2"BSP	8.5							
2 3060 0010*	MT3	280	60	1.6	10-45	Flat-Star A250-OM/OF-1/2"BSP	8.5							

Subject to technical change.

*reversible

Performance data at an operating pressure of 90 bar.

IMPACT WRENCHES

HYDRAULIC

Our universally usable hydraulic impact wrenches for use in open circuit.
*The specified max. torque refers to screws of strength class 8.8.
¹⁾adjustable



ORDER NO.	HYDRAULIC (open circuit)		For screws up to	Volume flow	OPERATING PRESSURE		70-140 ¹⁾ Bar		UNDERWATER OPERATION		Hydraulic hose/ Quick coupling	Vibration level	Weight
	Square drive	Max. torque*			Distance centre/ outer edge	Hydraulic hose/ Quick coupling	Vibration level	Weight					
	Nm	mm	l/min	mm	m/s ²	kg							
6 1515 0010	3/4"	1,700	M30	20-40	45	Flat-Star A250-OM/OF-1/2"BSP	3.8	7.3					
6 1514 0010	1"	1,700	M30	20-40	45	Flat-Star A250-OM/OF-1/2"BSP	3.8	7.3					

Subject to technical change.

Performance data at an operating pressure of 140 bar.

IMPACT WRENCHES

HYDRAULIC

Our most powerful 1" hydraulic impact wrench for use in open circuit.

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

¹⁾adjustable



ORDER NO.	HYDRAULIC (open circuit)		OPERATING PRESSURE		90-140 ¹⁾ Bar		UNDERWATER OPERATION	Hydraulic hose/ Quick coupling	Vibration level	Weight
	Square drive	Max. torque	For screws up to	Volume flow	Distance centre/ outer edge					
	Nm	mm	l/min	mm			m/s ²	kg		
6 1520 0010	1"	2,500	M36	25-45	60		Flat-Star A250-OM/OF-1/2"BSP	6.75	10.7	

Subject to technical change.

Performance data at an operating pressure of 140 bar.

AXIAL GRINDERS

HYDRAULIC

Our powerful hydraulic axial grinders for use in open circuit are ideally suited for hard grinding work.



ORDER NO.	HYDRAULIC (open circuit)		OPERATING PRESSURE		90-140 Bar		UNDERWATER OPERATION	Hydraulic hose/ Quick coupling	Vibration level	Weight
	Collet	Speed (free)	Power	Volume flow	Machine length					
	mm	rpm	kW	l/min	mm		m/s ²	kg		
1 5080 0010	6	11,500	0.8	10-30	274.5		Flat-Star A250-OM/OF-1/2"BSP	<2.5	1.6	
1 5080 0020	1/4"	11,500	0.8	10-30	274.5		Flat-Star A250-OM/OF-1/2"BSP	<2.5	1.6	
1 5080 0050	8	11,500	0.8	10-30	274.5		Flat-Star A250-OM/OF-1/2"BSP	<2.5	1.6	

Subject to technical change.

Performance data at an operating pressure of 90 bar.

AXIAL GRINDER

HYDRAULIC

Our powerful hydraulic grinder for use in open circuit with high removal rate. The maximum diameter of the grinding wheel is 200 mm.



ORDER NO.	HYDRAULIC (open circuit)		OPERATING PRESSURE		90-140 Bar		UNDERWATER OPERATION	Hydraulic hose/ Quick coupling	Vibration level	Weight without guard
	Wheel dia.max.	Speed (free)	Power	Volume flow	Tool holder					
	mm	rpm	kW	l/min	mm		m/s ²	kg		
1 1580 0060	200	7,000	1.8	18	dia.20/M12		Flat-Star A250-OM/OF-1/2"BSP	<2.5	8.3	

Subject to technical change.

Performance data at an operating pressure of 90 bar.

VERTICAL GRINDER

HYDRAULIC

Our powerful hydraulic vertical grinder for use in open circuit is usable for all heavy-duty rough grinding and cutting work.



ORDER NO.	HYDRAULIC (open circuit)		OPERATING PRESSURE		90-140 Bar		UNDERWATER OPERATION	Hydraulic hose/ Quick coupling	Vibration level	Weight
	Disc dia. max.	Speed (free)	Power	Volume flow	Tool holder					
	mm	rpm	kW	l/min	mm		m/s ²	kg		
1 2060 0010	230	3,600	3.5	20-45	dia.22.2 / 5/8-11UNC		Flat-Star A250-OM/OF-1/2"BSP	3.0	5.8	

Subject to technical change.

Performance data at an operating pressure of 90 bar.

SYSTEM ACCESSORIES

ANGLE GRINDER

HYDRAULIC

Our hydraulic angle grinder for use in open circuit is extremely powerful. Guarantees maximum cutting and removal rate.



ORDER NO.	HYDRAULIC (open circuit)	Speed (free) rpm	OPERATING PRESSURE	90-140 Bar	UNDERWATER OPERATION	Hydraulic hose/ Quick coupling	Vibration level m/s ²	Weight kg
	Disc dia. max. mm		Power kW	Volume flow l/min	Tool holder mm			
1 1585 0010	125	5,500	1.8	20	dia.22.2/M14	Flat-Star A250-OM/OF-1/2"BSP	<2.5	7.6

Subject to technical change.

Performance data at an operating pressure of 90 bar.

OPERATING INSTRUCTION FOR UNDERWATER TOOLS

Before underwater operation

- Check proper hose connection
- Check the machine for leakage
- Check all functions of the machine (drilling, blowing, valves, etc.)

After underwater operation

- Clean the machine
- Dry the machine with compressed air
- Spray all moving parts with Multi-Oil-Spray (or similar)



For additional information see the machine-specific operating and maintenance manual.

For long-life operation of the machine we recommend a general overhaul (after 3 months of use)

made by SPITZNAS. For maintenance and cleaning use Multi-Oil-Spray with SPITZNAS order number 9 9902 0120.

ACCESSORIES

More accessories on request.

GRINDING WHEELS AND MILLING CUTTERS



SAW BLADES



DRILLS



CORE BITS



DRILL RIGS



SOCKETS, ADAPTERS, ...



CLAMPS



SERVICE UNITS



HYDRAULIC SAFETY BLOCKS



HYDRAULIC OIL



HYDRAULIC POWER PACKS



CARRYING CASES



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