
SPITZNAS
CUSTOMIZED POWER SOLUTIONS
SPITZNAS
CUSTOMIZED POWER SOLUTIONS
UNDERWATER
TOOLS
TOOLS FOR THE SPECIALIST
CSI srl - Genova
www.csiadvice.it
PNEUMATIC
HYDRAULIC

PNEUMATIC

## CHAIN SAW




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

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Chain bar length usable | Power | Air consumption | Length without chainbar | Air inlet | Air outlet | Hose ID | Vibration level | Weight without chain bar/chain |
|---|---|---|---|---|---|---|---|---|---|
| | mm | kW | m³/min | mm | | | mm | m/s² | 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.

PNEUMATIC

## PISTOL DRILLS



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

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Drilling capacity in steel | Speed (free) | Power | Air consumption | Length incl. drill chuck | Air inlet | Air outlet | Hose ID | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | rpm | kW | m³/min | mm | | | mm | m/s² | 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.

PNEUMATIC

## PISTOL HAMMER DRILL



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.

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Drilling capacity in | | Drill chuck (geared) up to dia. max. | Speed (free) | Power | Air consumption | Length incl. drill chuck | Air inlet | Air outlet | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Steel | Masonry | | | | | | | | | |
| | mm | mm | mm | rpm | kW | m³/min | mm | | | m/s² | 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.

PNEUMATIC

## HAMMER DRILL SDS-PLUS



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.

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Drilling capacity in concrete | Speed (free) | Power | Blows per minute | Air consumption | Dimensions | | | Air inlet | Air outlet | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Length | Height | Width | | | | |
| | mm | rpm | kW | rpm | m³/min | mm | mm | mm | | | m/s² | 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.

PNEUMATIC

## HAMMER DRILL SDS-MAX



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.

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Drilling capacity in concrete | Speed (free) | Power | Blows per minute | Air consumption | Dimensions Length | Height | Width | Air inlet | Air outlet | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | rpm | kW | rpm | m³/min | mm | mm | mm | | | m/s² | 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.

PNEUMATIC

## CORE DRILL UNITS



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.

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Speed (free) 1. Gear | 2. Gear | 3. Gear | Power | Air consumption | Length | Drill bit adapter | Air inlet/ outlet | Hose ID | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | rpm | rpm | rpm | kW | m³/min | mm | | | mm | m/s² | 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.

PNEUMATIC

## IMPACT WRENCHES



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

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Square drive | Max. torque* | For screws up to | Air consumption | Distance centre/ outer edge | Air inlet | Air outlet | Hose ID | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nm | mm | m³/min | mm | | | mm | m/s² | 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.

PNEUMATIC

## AXIAL DIE GRINDER



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

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Collet* | Speed (free) | Power | Air consumption | Exhaust air guide | Machine length | Air inlet | Hose ID | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | mm | rpm | kW | m³/min | | mm | | mm | m/s² | 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.

PNEUMATIC

## ANGLE GRINDER



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

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Disc dia. max. | Speed (free) | Power | Air consumption | Tool holder | Dimensions Length | Height | Width | Air inlet | Hose ID | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | rpm | kW | m³/min | mm | mm | mm | mm | | mm | m/s² | kg |
| **1 4311 0050** | 125 | 11,600 | 0.3 | 1.00 | Ø22.2/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.

HYDRAULIC

## RECIPROCATING SAWS



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.

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Valve | Power | Volume flow | Stroke | Number of strokes | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|
| | | kW | l/min | mm | rpm | | m/s² | 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.

HYDRAULIC

## SABRE SAW



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Cutting capacity Wood | Steel | Power | Volume flow | Stroke | Number of strokes | Hydraulic hose/ Quick coupling | Vibration level chipboard/wooden beam | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | kW | l/min | mm | rpm | | m/s² | 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.

HYDRAULIC

## CHAIN SAW




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 seperately available.

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 140-200 Bar | **UNDERWATER OPERATION**

| ORDER NO. | 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/s² | 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.

HYDRAULIC

## DRILLS



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | 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 | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | mm | rpm | kW | l/min | | m/s² | 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.

HYDRAULIC

## DRILLS



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | 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 | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | mm | rpm | kW | l/min | | m/s² | 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

HYDRAULIC

## HAMMER DRILLS SDS-PLUS



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.

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 80[1]-140[2] Bar | **UNDERWATER OPERATION**

| ORDER NO. | Drilling capacity in concrete | Speed (free) | Power | Blows per minute | Volume flow | Dimensions Length | Height | Width | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | rpm | KW | rpm | l/min | mm | mm | mm | | m/s² | kg |
| **2 2406 0010**[1] | 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 0010**[2] | 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.

HYDRAULIC

## HAMMER DRILL SDS-MAX



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.

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 80 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Drilling capacity in concrete | Speed (free) | Power | Blows per minute | Volume flow | Dimensions Length | Height | Width | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | rpm | KW | rpm | l/min | mm | mm | mm | | m/s² | 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.

HYDRAULIC

## MAGNETIC CORE DRILLS



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 140-180 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Tool holder | Speed infinitely adjustable | Power | Volume flow | Drilling capacity diameter max. | | | | | Stroke | Magnetic force at 10 mm material thickness | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Drill core | Spiral drill | Taper | Reamer | Spot facer | | | | |
| | | rpm | kW | l/min | mm | mm | mm | mm | mm | mm | kg | m/s² | 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.

HYDRAULIC

## CORE DRILL UNIT



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.

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Speed(free) | | | Power | Volume flow | Hydraulic hose/ Quick coupling | Drill bit adapter | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | 1. Gear | 2. Gear | 3. Gear | | | | | | |
| | rpm | rpm | rpm | kW | l/min | | | m/s² | kg |
| **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.

HYDRAULIC

## DRILLS



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | 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.

HYDRAULIC

## IMPACT WRENCHES



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 70-140[1)] Bar | **UNDERWATER OPERATION**

| ORDER NO. | Square drive | Max. torque* | For screws up to | Volume flow | Distance centre/ outer edge | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|
| | | Nm | mm | l/min | mm | | m/s² | 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.

HYDRAULIC

## IMPACT WRENCHES



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140[1)] Bar | **UNDERWATER OPERATION**

| ORDER NO. | Square drive | Max. torque | For screws up to | Volume flow | Distance centre/ outer edge | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|
| | | Nm | mm | l/min | mm | | m/s² | 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.

HYDRAULIC

## AXIAL GRINDERS



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Collet | Speed (free) | Power | Volume flow | Machine length | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|
| | mm | rpm | kW | l/min | mm | | m/s² | 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.

HYDRAULIC

## AXIAL GRINDER



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Wheel dia.max. | Speed (free) | Power | Volume flow | Tool holder | Hydraulic hose/ Quick coupling | Vibration level | Weight without guard |
|---|---|---|---|---|---|---|---|---|
| | mm | rpm | kW | l/min | mm | | m/s² | 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.

HYDRAULIC

## VERTICAL GRINDER



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Disc dia. max. | Speed (free) | Power | Volume flow | Tool holder | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|
| | mm | rpm | kW | l/min | mm | | m/s² | 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

HYDRAULIC

## ANGLE GRINDER



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

**HYDRAULIC** (open circuit) | **OPERATING PRESSURE** 90-140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Disc dia. max. | Speed (free) | Power | Volume flow | Tool holder | Hydraulic hose/ Quick coupling | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|
| | mm | rpm | kW | l/min | mm | | m/s² | kg |
| **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.**




CSI srl

Via Fereggiano, 24A 16144 Genova GE
Tel: (+39)0103013323 Fax: (+39)0100961990
E-Mail: sales@csiadvice.it Internet: http://www.csiadvice.it