



SPITZNAS
CUSTOMIZED POWER SOLUTIONS



HFA-TOOLS

TOOLS FOR THE SPECIALIST

HYDRAULIC



ATEX



SYSTEM CONCEPT



Lever valve



Two hand operation



Hydraulic connection



ATEX-Safety class
approved



Cut-off valve for
limitation of the torque

Tool holder



...also available
with impact mechanism





TWO HAND OPERATION DRILL

The hydraulic two hand operation **drill** powered by HFA-Emulsion (min. 0,3%) for **closed circuit**, usable for underground coal mining.

Other tool holders possible on request.



ORDER NO.	ATEX Specification	Tool holder	HFA-EMULSION 		OPERATING PRESSURE 250 Bar		ATEX 		Weight
			Speed (free)	Torque	Volume flow	Connection	Noise level LpA	Vibration level at middle hard concrete/calcium silicate brick	
			rpm	Nm	l/min		dB(A)	m/s ²	kg
2 3053 0010	IM2ExhIMbT6	PN-93/G-57000	850	95	28.0	STECKO-8/10	85.2	15.8 / 3.4	6.8

Subject to technical change.



Performance data at an operating pressure of 250 bar.

TWO HAND OPERATION DRILL

The hydraulic two hand operation **impact drill** powered by HFA-Emulsion (min. 0,3%) for **closed circuit**, usable for underground coal mining.

Other tool holders possible on request.



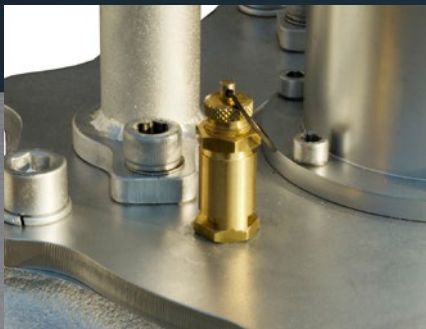
ORDER NO.	ATEX Specification	Tool holder	HFA-EMULSION 		OPERATING PRESSURE 250 Bar		ATEX 		Weight	
			Speed (free)	Number of impacts	Torque	Volume flow	Connection	Noise level LpA		Vibration level
			rpm	rpm	Nm	l/min		dB(A)	m/s ²	kg
2 3054 0010	IM2ExhIMbT6	PN-93/G-57000	850	8,500	95	28.0	STECKO-8/10	84.0	8.4	9.5

Subject to technical change.

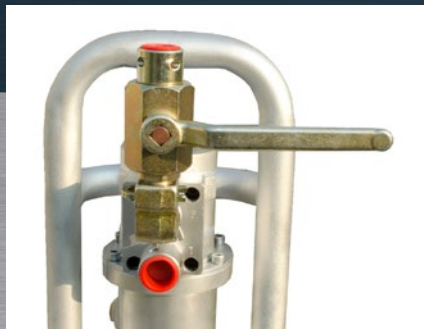
Performance data at an operating pressure of 250 bar.

TECHNICAL DATA

SYSTEM CONCEPT



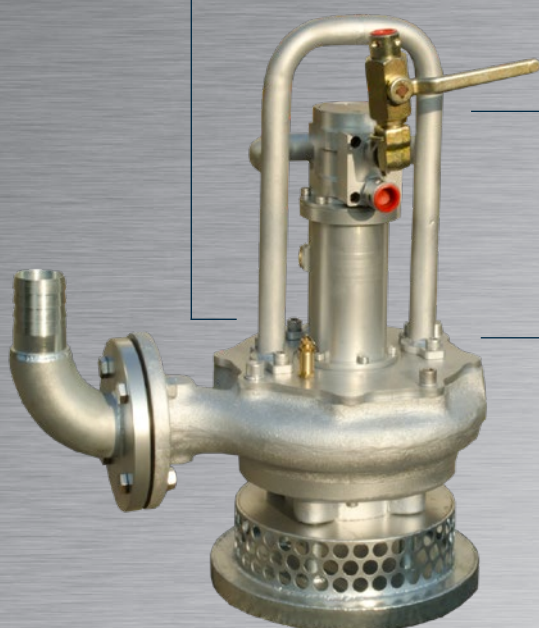
Ventilation valve



Hydraulic connection and ball valve



Handle with operating valve



ATEX-Safety class
approved



Suction grid



Saw blade guidance



Hydraulic connection



SUMP PUMP

The hydraulic **sump pump** powered by HFA-Emulsion for **closed circuit** is characterized by its high pumping head.

The pump is designed for relatively clean fluids, e.g. water and cooling agents (no grinding liquids) up to a particle size of dia. 15 mm and a minimum immersion depth of 240 mm.

The pump can be immersed fully into the medium to be pumped and can be used as well in potentially explosive areas (underground coal mining).



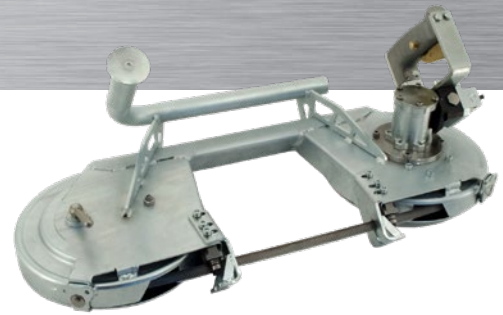
ORDER NO.	ATEX Specification	Pumping capacity at a height of 10 m	HFA-EMULSION		OPERATING PRESSURE			ATEX		UNDERWATER OPERATION	
			0,3%	Delivery outlet	280 Bar	Height	Length	Width	Connection	Noise level LpA	Weight
		m ³ /h	m	mm	l/min	mm	mm	mm		dB(A)	kg
7 1105 0010	IM2ExhIMbT3	50	35	DN50-PN10/ nozzle dia. 52	26	565	290	495	STECKO-10	101.0	50.0

Subject to technical change.

Performance data at an operating pressure of 280 bar.

BAND SAW

The compact **band saw** powered by HFA-Emulsion for **closed circuit**, as well usable in potentially explosive areas (underground coal mining).



ORDER NO.	ATEX Specification	Power	Volume flow	Cutting capacity max. Ø	OPERATING PRESSURE		ATEX		Vibration level	Weight
					200-300 Bar	Bar	ATEX	Connection		
		kW	l/min	mm	mm	mm		dB(A)	m/s ²	kg
5 6085 0010	IM2ExhIMbT6	1.0	13	160	180x120 (200x50)	180x120 (200x50)	STECKO-10	80.0	<2.5	13.8

Subject to technical change.

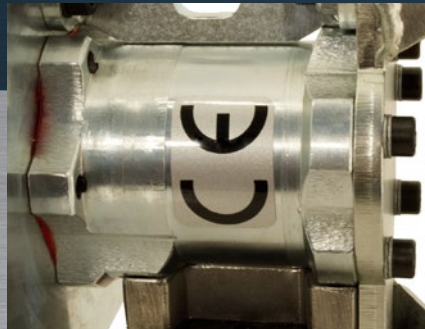
Performance data at an operating pressure of 200 bar.

TECHNICAL DATA

SYSTEM CONCEPT



Square drive



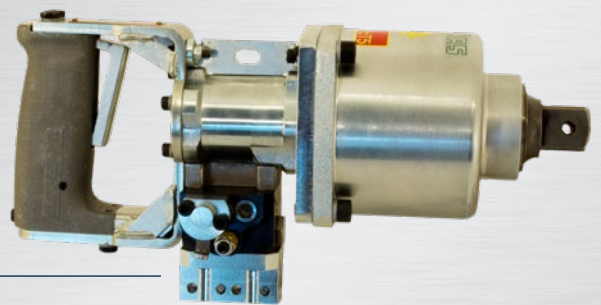
Hydraulic motor



Handle with operating valve



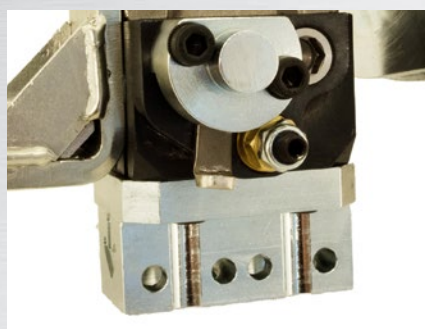
ATEX-Safety class
approved



Second handle



Torque adjustable



Hydraulic connection



IMPACT WRENCH

The hydraulic **impact wrench** with **3/4"** square drive powered by HFA-Emulsion (min. 0,3%) for **closed circuit**, usable as well for underground coal mining.



ORDER NO.	ATEX Specification	Square drive	For screws up to	Max. torque* (adjustable)	OPERATING PRESSURE		ATEX	Connection	Noise level LpA	Vibration level	Weight
					220-330 Bar	Bar					
			mm	Nm	l/min	mm			dB(A)	m/s ²	kg
6 1516 0010	IM2ExhIMbT5	3/4"	M30	350-1,700	12.0	52.5	STECKO-10	94.5	10.9	7.4	
Subject to technical change.		*applying on screw strength class 8.8				Performance data at an operating pressure of 220 bar.					

IMPACT WRENCH

The hydraulic **impact wrench** with **1"** square drive powered by HFA-Emulsion (min. 0,3%) for **closed circuit**, usable as well for underground coal mining.



ORDER NO.	ATEX Specification	Square drive	For screws up to	Max. torque* (adjustable)	OPERATING PRESSURE		ATEX	Connection	Noise level LpA	Vibration level	Weight
					220-330 Bar	Bar					
			mm	Nm	l/min	mm			dB(A)	m/s ²	kg
6 1517 0010	IM2ExhIMbT5	1"	M39	550-3,400	12.0	52.5	STECKO-10	102.0	14.0	9.3	
Subject to technical change.		*applying on screw strength class 8.8				Performance data at an operating pressure of 220 bar.					

TECHNICAL DATA

SYSTEM ACCESSORIES

HFA-EMULSIONS

HFA-fluids are safety hydraulic fluids from the group of oil-water emulsions with a water content of more than 80%. They can be used for temperatures from +5°C to +55°C.

HFA fluids are hydraulic fluids that combine the excellent fire protection properties of water with the lubrication and corrosion protection of an additive concentrate.

The hydraulic equipment that is operated with HFA must be suitable for low-viscosity liquids. Due to the very low viscosity, high leakage losses can occur.

HFA-concentrates increase seal life, prevent corrosion in components and piping, and control bacterial and fungal growth in equipment.

SYSTEM-REQUIREMENTS

Hydraulic fluid	: HFA-Emulsion with min 0.3 % oil content
Filtration	: Purity degree 100 µm
Fluid circulation	: closed circuit
Retain line pressure	: max. 17 bar
Temperature of oil	: 5°C to 50°C
Viscosity	: approx. 1 centistokes
ISO-level of purity	: 20/18/13

* Closed circuit means that the operating pressure is connected to P-connection of the tool. By actuating the valve the medium will be guided to the T-connection of the tool (tank line). Other tools can be connected in parallel to the pressure supply (P-connection) of the system.

BEFORE CONNECTING THE TOOL

Please check:

- the type of circulation type (open or closed circuit) of the system/tool first
- that the max. operating pressure can not be exceeded
- that all hose connections are cleaned before connecting them to the tool
- that there is no indication of leakage
- that the tool is clean and dry
- that all assemblings and mountings are firmly fixed and tight

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