



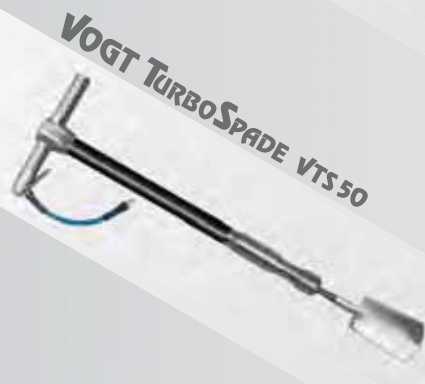
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Original Operating manual

VOGT Pneumatic Power Tools

mit Tools-, Accessories- and Sparepartlists

VOGT®

Pneumatic Power Tools



This operating manual must stay with the equipment.
Recommendation: Store it in the transport case pocket.

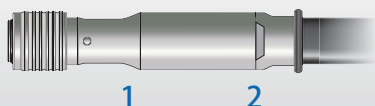
Validity of the manual

This operating manual applies to the following equipment:

- **VOGT Hammer VH 25**
- **VOGT Hammer VH 50**
- **VOGT Hammer VH 50.18**
- **VOGT TurboSpade VTS 50**

This operating manual is also part of the operating manuals for the following equipment as instructions for the basic VTS 50 equipment:

- **Product series VOGT Geo Injector**
- **VOGT Soil Aerator**



The manufacturer/type (1) and serial number/year of construction (2) are engraved on the equipment.

Please see your delivery note/invoice for the extent of the supplied tools and accessories.

Symbols used



Indicates that persons could be severely injured or killed.



Indicates that persons could be injured.



Yellow arrows indicate the risk of machinery damage or provide tips on making work easier.

Imprint

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CE EC Declaration of Conformity

The manufacturer / distributor

Name / address:

VOGT Baugeräte GmbH
Industriestraße 39
D-95466 Weidenberg

hereby declares that the products of the series

- **VOGT Hammer VH 25** since serialnumber 2011-xxxx
- **VOGT Hammer VH 50** since serialnumber 2011-xxxx
- **VOGT Hammer VH 50.18** since serialnumber 2011-xxxx
- **VOGT TurboSpaten VTS 50** since serialnumber 2011-xxxx

comply with the following directives:

98/37/EC (Machinery Directive)
2000/14/EC (noise emission in the environment by equipment and machinery for use outdoors)

The following harmonised standards were applied:

DIN EN 292	Safety of machines
DIN EN 1050	Safety of machines

Documentation officer: Manfred Brehm, Industriestraße 39, 95466 Weidenberg

Weidenberg, den 01.01.2011

Manfred Brehm, Chairman

Signer

Signature

1 Safety

VOGT compressed air equipment may only be used by adults with the necessary physical and mental capacity that have read and understood this operating manual in full!

1.1 Intended use

Depending on the tool insert (see Section 9), the equipment described is only suitable for the compacting, driving down, scraping, cutting, breaking up, removal, thickening, exposure, cleaning, burying or loosening of different materials. Any other use is not intended and is therefore forbidden. Modifications, inserting other companies' tools and interfering with or changing operating elements or controls are also forbidden. This equipment is not designed for use in areas where there is a risk of explosion. Therefore, it may not be used in potentially explosive areas. Operation in or under water is not permitted. VOGT compressed air equipment may only be put into operation, operated, maintained and repaired as described in this operating manual. Repair work that is not described here must be performed by a specialist workshop or the manufacturer.



VOGT compressed air equipment may only be put into operation, operated, maintained and repaired as described in this operating manual. Repair work that is not described here must be performed by a specialist workshop or the manufacturer.

1.2 Residual risks

Residual risks are risks which cannot be completely removed in spite of the safety-conscious design of this equipment.



Noise risks

Depending on the materials to be processed, different noise levels can occur. These noise levels may cause permanent hearing loss in the case of extended exposure.

Always wear appropriate ear protection.



Vibration risks

Permanent physical damage, such as feelings of numbness or damage to the nervous system may develop if the human body is exposed to vibrations for an extended period.

The permissible operating times must be observed. Wear approved and tested anti-vibration protective gloves if necessary.



Risk of injury from splinters, falling material, dust and sharp tools.

Injuries from splinters or dust may arise when working with this equipment. Respiratory damage may occur from dust formation. Falling material can cause head injuries.

Always wear suitable regulation personal safety equipment when working with this equipment, e.g. safety boots, close-fitting work clothing, anti-splinter protective gloves/protective goggles, protective headgear and, where applicable, a respirator mask.



The manufacturer cannot judge other residual risks which may arise in individual cases. These risks depend exclusively on the material to be processed. It is the respective operator's sole responsibility to assess the risks and take the necessary safety measures. These obligations also include observing the safety and health plan.

1.3 Obligations of the operator

- Adherence to the applicable accident prevention regulations
- Adherence to the applicable and relevant safety and health protection regulations
- Briefing operating staff using this operating manual
- Securing the work area
- Providing the approved and necessary personal safety equipment

2 Transport/storage



Transport and store your VOGT compressed air equipment in the provided metal transport case whenever possible. Always store it in a dry and dustless place if possible.



If storing for longer than two days, add some drops of oil to the connection hose to preserve it and put the equipment briefly into operation (see Section 4).

3 Operation

- Check the equipment, all tools and accessories for visible damage before operation. Damaged tools must not be used.
- Inform a specialist workshop, your dealer or the manufacturer. If order numbers are required, they can be found in the tool list in Section 9, the accessory list in Section 12 or the spare parts list from Section 14 onwards.



VOGT compressed air equipment normally comes with some basic personal protective equipment. This consists of protective gloves, protective goggles and ear plugs. We would like to expressly point out that this personal protective equipment can never provide protection from all conceivable risks. Always wear the prescribed, approved and suitable personal protective equipment needed for each individual situation.

A sufficiently powerful source of compressed air (e.g. compressor) of 3 to 6 bar and an air flow rate of at least 190 l/min (VH 25) or 255 l/min (VH50, VH 50.18, VTS 50) is required to supply air to VOGT compressed air equipment. This corresponds to a suction capacity of 380 - 450 l/min.

The recommended operating pressures for the respective materials can be found in the table in Section 8.



Risk of equipment damage if the operating pressure at the equipment exceeds 6 bar.

Check the operating pressure and set the correct value if necessary.
Use a pressure regulator if necessary (item no. Z 400)

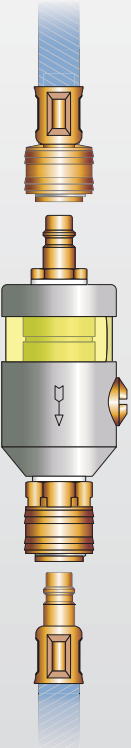
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Basic rule:

The lower the material resistance, the lower the operating pressure. The operating pressure is too high if the tool “jumps away” from the material.

Excessive pressure increases the vibration, reduces performance and can cause damage e.g. to the equipment. VOGT compressed air equipment must be continuously lubricated during operation as the equipment can be damaged otherwise.

We recommend using VOGT precision line lubricator Z 300.

	Mounting Engage the precision line lubricator in the last compressed air hose upstream of the VOGT Hammer or VOGT TurboSpade. The distance to the equipment should not exceed 10 meters. Ensure that the lubricator is attached at the same level as the equipment. Lubrication If the tool is slightly moistened or black with oil at the shank end (hexagon) after operation, the lubricator is set up correctly. If the tool has a metallic gleam at the shank end, the oil quantity is set too low. If oil leaks at the actuator body valve or runs along the chisel, the oil quantity is set too high. Setting the oil quantity and topping up oil Open the sealing plug. The quantity of oil supplied can be set using the adjusting screw underneath. The quantity of oil supplied is reduced by turning the adjusting screw in a clockwise direction and increased by turning it anticlockwise. The oil can be topped up by opening the sealing plug. An oil filling should be used up after 2-3 working days. If the recommended consumption differs considerably, turn the adjusting screw 1/8th in the corresponding direction and continue to monitor the oil consumption. Oil types Use VOGT Special Oil Z 500 or other types of pneumatic oil. Important: Only use resin-free oil!
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You will need a compressed air hose with an inner diameter of at least 9 mm (e.g. VOGT metal hose drum Z 100, VOGT PU streamline hose Z 110) to connect the VOGT compressed air equipment to the compressed air source.

	Lay the compressed air hose between the compressed air source and the place of use. But do not connect the hose yet! (See Chapter 3.2 for connecting the hose) If distances exceed 30 m, use a hose with a larger cross-section! Compressed air hoses with a claw coupling must be equipped with a claw coupling adapter for VOGT standard coupling (e.g. Z 200 adapter) in a depressurised state at the end where the VOGT compressed air equipment should be connected.
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 NOTE	Risk of falling if compressed air hoses are not laid correctly. Lay hoses in such a way that they do not cross any paths or roads and lie flat on the ground. Always lay the compressed air hoses in such a way that there is a suitable hose reserve in the work area.
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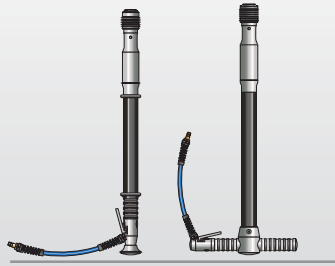
3.1 Inserting / changing tools



Risk of injury from tools.

The equipment must be depressurised to insert or change tools as the equipment can be unexpectedly put into operation if handled incorrectly. Always wear suitable protective gloves when dealing with sharp, pointy or hot tools in order to avoid injury.

Only use original tools or tools expressly approved by the manufacturer for use in VOGT compressed air equipment.

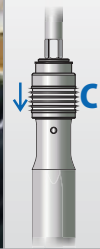


Hold the VOGT compressed air equipment with the tool holder upwards. Support it by placing the other end on the ground. If the VOGT compressed air equipment has already been in operation, check whether the tool holder is oily. See page 8 if it is not the case.

Inserting a tool



Insert the tool (A) with the hexagon in the necessary orientations in the tool holder (B).

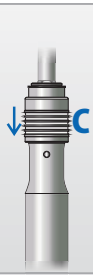


Using your other hand, slide the sliding sleeve (C) downwards (around half the length of the sliding sleeve) until the tool slips into the holder. Return the sliding sleeve to its original position.



Pull on the tool to check whether it has correctly locked into place in the tool holder. Check whether the tool hexagon is positively locked into the tool holder.

Removing a tool



Slide the sliding sleeve (C) halfway downwards.



Pull out the tool (A) using your other hand.
Return the sliding sleeve to its original position.



NOTE

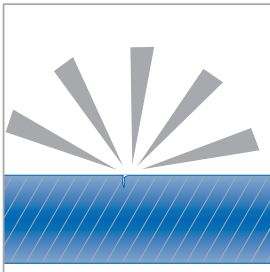
Risk of injury from tools flying out.

Every time you change tools, ensure that the tool holder does not show signs of heavy wear or heavy denting. Furthermore, ensure that the hexagon on the tool is in perfect condition. Ensure that the tool is fitting correctly each time you change tools.

3.2 Connecting the hose



Connect the hose to the compressed air source (e.g. compressor) and open the compressed air supply.



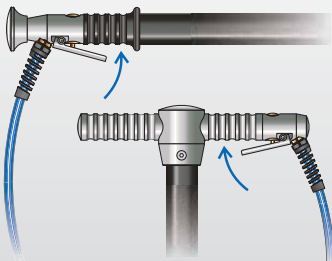
Check that the compressed air hoses and couplings are tight.
In the case of leakages, interrupt the compressed air supply and replace the hose!



Connect the hose to the VOGT compressed air equipment. When doing so, ensure that the compressed air equipment does not switch on automatically. If this happens, disconnect the compressed air coupling immediately. Have the compressed air equipment repaired at a specialist workshop or by the manufacturer.

4 Work

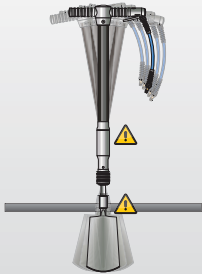
	Risk of severe or fatal injury if the equipment – even without a tool – is aimed at persons or animals and when persons or animals are in the danger area.
	Never aim the equipment at persons or animals. The operator is responsible for ensuring that there are no persons or animals in the equipment's danger area. Once a person or animal enters the danger area, the operator must immediately stop the equipment and ensure that these persons or animals stay a safe distance away. The danger area always depends on the work and the tool. Therefore, the operator is responsible for determining the danger area.

	If you activate the release lever, compressed air is supplied to the rammer of the VOGT compressed air equipment and the equipment starts.
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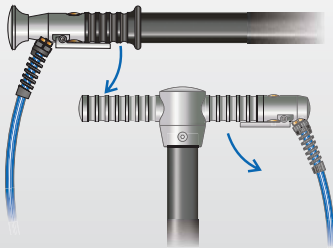
	Always use both hands to hold the VOGT compressed air equipment when working: • VOGT Hammer with one hand on the shaft or the optional handle and the other on the actuator body; • VOGT TurboSpade at the top with both right and left handles. Hold the tool on the material to be processed.
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 NOTE	Do not operate the equipment without contact with the material!
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	The handle and shaft serve to guide the equipment, not to apply additional force to the material. Only use sufficient physical strength for the equipment to overcome the resistance of the tool guide, to keep the impact moving forward, to prevent the equipment jumping up and to ensure the material is actually processed.
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	Limited levering is possible. Excessive levering can lead to the shaft or tool being broken.
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	Risk of injury
	Risk of falling if the shaft or tool is broken through an unexpected shift in weight.
	Do not lever too heavily.

	If you release the releasing lever, the compressed air supply is interrupted. The equipment stops after a brief follow-up time (depending on the length of the equipment).
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	Risk of severe or fatal injury or equipment/tool damage if the release lever is permanently locked in place. Never lock the release lever in place using cable ties, tape or other means.
	Check every 4 operating hours at the latest if there is a film of oil on the tool holder.

If this is not the case, add some drops of VOGT Special Oil to the connection hose. We fundamentally recommend that a VOGT precision line lubricator be used during operation. If a VOGT precision line lubricator is already being used, check its oil level and setting (see page 8). It is useful to grease the hexagon chisel holder for high contact forces.

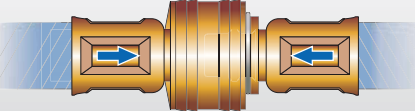
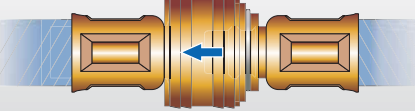
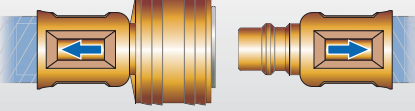
An excessive quantity of oil dampens the impact performance. Drops will form on the releasing lever or tool holder. Reduce the quantity of oil at the lubricator (see page 8) in such instances and clean the equipment if necessary (see page 13). The equipment or tool may become damaged if the quantity of oil is too low. Check the oil supply, refill the oil if necessary or adjust the lubricator (see page 8).

	Vibration risks
	Permanent physical damage, such as feelings of numbness or damage to the nervous system may develop if the human body is exposed to vibrations for an extended period.
	The permissible operating times must be observed. Always wear approved and tested anti-vibration protective gloves.

If the equipment, tools or accessories are damaged, they should be repaired by a specialist workshop or the manufacturer or replaced. As the manufacturer, we are able to supply necessary spare parts in the quickest possible time and carry out repairs in the shortest time. If order numbers are required, they can be found in the tool list in Section 9, the accessory list in Section 12 or the spare parts list in Section 14.

4.1 Break/end of work

Interrupt the compressed air supply from the compressed air hose to the equipment.

	Remove the residual air from the hose by starting the equipment or hold the hose very tightly. Push the hose deeper into the coupling.
	Pull back the coupling sleeve.
	Remove the hose.

In the case of a break:

- Place the secured equipment aside.
- Cover any sharp or pointy tools in the equipment, if applicable.

At the end of work:

- Interrupt the compressed air supply.
- Remove the tool from the equipment.
- Check whether there is a film of oil on the tool holder.
- If this is not the case, add a few drops of VOGT Special Oil to the connection hose and put the equipment into operation without a tool for approx. 15 seconds.
- Clean the VOGT compressed air equipment, tools, hose and other accessories with a dry or oil-containing clean cloth.
- Store your VOGT compressed air equipment in the provided metal transport case whenever possible.

5 Maintenance/care



The equipment is maintenance-free if you ensure a regular supply of oil to the equipment.

6 Troubleshooting



Take note chapter 3 and 4

Fehler	Mögliche Ursache	Instandsetzung
VOGT compressed air equipment does not impact or has no power.	Piston has started to rust inside the casing due to a lack of oiling.	• Press the piston back through the tool holder using a striker. • Add some VOGT Special Oil or pneumatic oil to the connection hose and in the tool holder. • Briefly put the equipment into operation without a tool. • Interrupt the compressed air supply again. • Remove the compressed air hose again. • Repeat the entire procedure a few times.
	Soil has penetrated via the air hose.	Repairs/cleaning must be performed by a specialist workshop or the manufacturer.
	Too much lubricating oil used or water in the rammer.	• Observe the warning information below! • Add a small amount of cleaning agent (e.g. 1 to 2 cm³ of brake cleaner) into the connection hose. • Briefly put the equipment into operation without a tool. • Collect the oil/water/cleaning agent mixture that comes out. • Interrupt the compressed air supply again. • Remove the compressed air hose again. • Repeat the entire procedure two to three times. • Add some pneumatic oil into the connection hose. • Put the equipment into operation.
	Excessive contact forces.	Lubricate the chisel holder and reduce the contact force.



Observe the safety warnings and disposal information from the manufacturer of the cleaning agent!

Error	Possible cause	Maintenance
Tool no longer clicks into the tool holder or does not stay in the tool holder.	Tool or tool holder worn out. (Usually caused by excessive operating pressure or impacts that do not strike anything)	Repairs must be performed by a specialist workshop or the manufacturer.
Tool cannot be inserted or removed again.	Sliding sleeve on the tool holder is slid all the way back instead of just halfway when inserting or removing the tool.	Only push the sliding sleeve on the tool holder back halfway when inserting or removing the tool. Observe Section 3.1
	Soil penetrating the sliding sleeve is hindering unlatching.	Repairs/cleaning must be performed by a specialist workshop or the manufacturer.
The equipment goes into continuous operation without the releasing lever being actuated.	Spring on the releasing lever is broken or the releasing valve O-ring has loosened from the valve seat due to overpressure or is cracked.	• Observe the warning information below! • Hold the compressed air hose tightly and immediately remove it from the equipment! • Immediately interrupt the compressed air supply (see Section 4.1)! • Repair work that is not described here must be performed by a specialist workshop or the manufacturer.

7 Disposal

 NOTE	Observe the statutory waste regulations.
--	--

- Metal parts ————— ➤ Dispose of as scrap metal
- Plastic shaft ————— ➤ Dispose of in accordance with the regulations for POM plastics
- PU hoses ————— ➤ Dispose of in accordance with the regulations for PU plastics
- PVC hoses ————— ➤ Dispose of in accordance with the regulations for PVC plastics
- O-rings and damping parts — ➤ Dispose of in accordance with the regulations for rubber
- Oil from line lubricator — ➤ Dispose of as waste oil

8 Technical data

	The manufacturer/type (1) and serial number/year of construction (2) are engraved on the equipment.
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Typ	VH 25-20	VH 25-40	VH 25-60	VH 25-80	VH 25-100
Stick length	20 cm	40 cm	60 cm	80 cm	100 cm
Total length	58 cm	72 cm	92 cm	112 cm	132 cm
Weight	3.0 kg	3.2 kg	3.4 kg	3.6 kg	3.8 kg
Operating medium	Air				
Operating pressure	3.0 to 6.0 bar				
Air consumption (at 6 bar)	190 l/min				
Impact rate	3200/min				
Guaranteed sound power level LWA	105 dB				
Weighted vibration acceleration ah	12.7 to 17.8 m/s ² (depending on the pressure)				
Tool holder	14 mm hexagon				
Inner hose diameter	min. 9 mm				

Typ	VH 50-20	VH 50-40	VH 50-60	VH 50-80	VH 50-100
Stick length	20 cm	40 cm	60 cm	80 cm	100 cm
Total length	58 cm	72 cm	92 cm	112 cm	132 cm
Weight	4.3 kg	4.6 kg	5.0 kg	5.3 kg	5.7 kg
Operating medium	Air				
Operating pressure	3.0 to 6.0 bar				
Air consumption (at 6 bar)	255 l/min				
Impact rate	1960/min				
Guaranteed sound power level LWA	105 dB				
Weighted vibration acceleration ah	15.7 bis 21 m/s ² (depending on the pressure)				
Tool holder	14 mm hexagon				
Inner hose diameter	min. 9 mm				

Typ	VH 50-20.18	VH 50-40.18	VH 50-60.18	VH 50-80.18	VH 50-100.18
Stick length	20 cm	40 cm	60 cm	80 cm	100 cm
Total length	58 cm	72 cm	92 cm	112 cm	132 cm
Weight	4.3 kg	4.6 kg	5.0 kg	5.3 kg	5.7 kg
Operating medium	Air				
Operating pressure	3.0 to 6.0 bar				
Air consumption (at 6 bar)	255 l/min				
Impact rate	1960/min				
Guaranteed sound power level LWA	105 dB				
Weighted vibration acceleration ah	15.7 bis 21 m/s ² (depending on the pressure)				
Tool holder	18 mm hexagon				
Inner hose diameter	min. 9 mm				

Typ	VTS 50-50	VTS 50-65	VTS 50-80	VTS 50-120
Stick length	10 cm	20 cm	40 cm	80 cm
Total length	58 cm	72 cm	92 cm	112 cm
Weight	4.3 kg	4.6 kg	5.0 kg	5.3 kg
Operating medium	Air			
Operating pressure	4.0 to 6.0 bar			
Air consumption (at 6 bar)	255 l/min			
Impact rate	1960/min			
Guaranteed sound power level LWA	105 dB			
Weighted vibration acceleration ah	15.7 bis 21 m/s ² (depending on the pressure)			
Tool holder	18 mm hexagon			
Inner hose diameter	min. 9 mm			

Precision in-line oiler	
Usable content	22 cm ³
Max. operating pressure	16 bar
Max. operating temperature	-10° C to +50° C

Operating pressure for processing various materials with the VOGT Hammer VH 25, VH 50, VH 50.18	
The operating pressure must be adjusted to the material and subsurface. Recommendations:	
Cleaning joints	3,0 to 5,0 bar
floor coverings, coatings	4,0 to 6,0 bar
parquet, laminate	5,0 to 6,0 bar
thin plaster, textured plaster	5,0 bar
lime-gypsum plaster	5,0 to 6,0 bar
lime-cement plaster	6,0 bar
tiles, glued	5,0 to 6,0 bar
tiles in a mortar bed	6,0 bar
maximum operating pressure	6,0 bar

Operating pressure for processing various materials with the VOGT TurboSpade VTS 50	
The operating pressure must be adjusted to the material and subsurface. Recommendations:	
Digging	6,0 bar
sealing	5,0 to 6,0 bar
mortising	6,0 bar

 NOTE	Basic rule: The lower the material resistance, the lower the operating pressure. The operating pressure is too high if the tool "jumps away" from the material. Excessive pressure increases the vibration, reduces performance and can cause damage e.g. to the equipment.

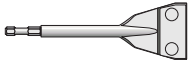
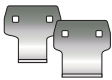
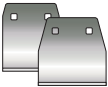
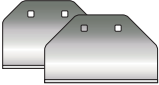
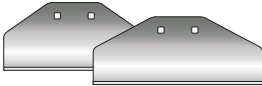
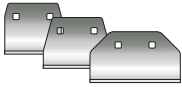
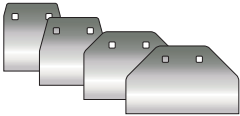
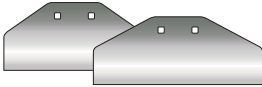
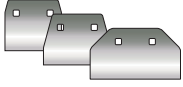
9 Tools

All illustrations and descriptions with tools in use are only exemplary. Each individual tool is also suitable for other areas of use and applications. The user is solely responsible for having the technical and expert knowledge to select the right tool and this should be chosen according to the individual conditions of use and materials on site.



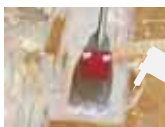
Scraping

- scrape off old floors and coverings,
- bitumen and bonding materials
- removing plaster and tiles

		l/b [mm]	⬡14	⬡18	
	Scraper holder	curved, with fastening set 902 011	300/100	M 5000	M 5000.18
		straight, with fastening set 902 011 lancing road pavement joints	300/100	MG 5000	MG5000.18
    	Scraper beveled	special duties in smal areas, very insistent materials	100/50	B 50 S	
			100/70	B 70 S	
		concrete on lever surface, coverings, thin concrete, sprayed asbestos, bonded tiles, adhesives- and concrete remains, projection, roadmarkings	120/100	B 100 S	
			120/120	B 120 S	
		bitumen, adhesive, paints, knifing filler and remains, PVC-, CV-, linoleum- and rubber floors, cork, needle felt, carpets	120/160	B 160 S	
			120/200	B 200 S	
		easy removeable coverings and adhesions, foam backings, bonded insulation boards, all kind of remains on floors	120/250	B 250 S	
			120/300	B 300 S	
		epoxy resin and 2-component coatings, insulating layer, bitumen, knifing filler	90/100	B 100 KS	
			90/120	B 120 KS	
			90/160	B 160 KS	
  	Scraper edgeless	coatings on steel and other solid subsoils	120/100	B 100	
		dekor plaster on soft surface, top plaster on WDVS by preventing damages of the reinforcement, roadmarkings	120/120	B 120	
			120/160	B 160	
			120/200	B 200	
		cleaning of asphalt and concrete surfaces, cleaning remains of bulk material, removing roof gravel	120/250	B 250	
			120/300	B 300	
		epoxy- and 2-K-coverings, insistent insulations	90/100	B 100 K	
			90/120	B 120 K	
			90/160	B 160 K	
	Deflection device	with fastening set 902 020, rolls up floor coverings	b = 120	U 120	
	Deflector	keeping away long insistent materials		Z 910	

① On request we deliver other scraper types and sizes

① On request we deliver other sraper types and sizes



Cutting

- ▶ removing PU-elastic adhesive parquet
- ▶ cutting and removing synchronous

		l/b [mm]	
	Special blade "Frankenklänge" beveled on both sides for panel width up to 100 mm	cutting PU-elastic adhesive parquet and laminate floors, boot decks and facade panellings	B 120 F
		① the more stiff the adhesive, the more smaller the scraper should be	B 160 F
			B 200 F
	for panel width from 100 mm up to 150 mm	cutting PU-elastic adhesive parquet and laminate floors, boot decks and facade panellings	B 120 LF
		① the more stiff the adhesive, the more small the scraper should be	B 160 LF
			B 200 LF
	Parquet wedge	with fastening set 90 20 60, reduces the frictional resistance of PU-adhesives	PK 90
	Crossblade holder with blade	Crossblade for cutting of soft flooring in all width	H 100 B
	Doublecrossblade holder with blades	Doublecrossblade for cutting of soft flooring in channels	H 120 B
		① The more thick the covering the more small the doublecrossblade should be	H 160 B
			H 200 B
	Crossblade beveled on both sides	loosening and cutting of soft coverings, also multi-layer	B 55



Accessories and attachments for Scraper holder

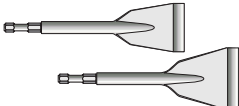
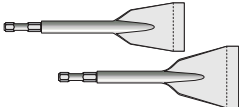
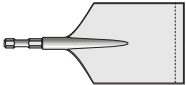
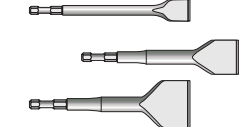
	Fastening set	standard fastening set for Scraper holder	902 008
		small reinforcing plate for Scrapers until 120 mm width	902 004
		large reinforcing plate for Scrapers up to 160 mm width	902 005
		standard fastening set with small and large reinforcing plate	902 011
		fastening set below, to achieve an even operating angle	902 020
		fastening set for Parquet wedge	902 060
		fastening set for Crossblade/Doublecrossblade holder	902 016
	Ring wrench	deep-offset, size 15-19 for Scraper holder and Handle	861 004

Subject to change without notice.



Break open / Removal

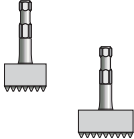
- ▶ cut off plaster and tiles
- ▶ force open brickwork, screed, wood floors
- ▶ remove bitumen boards and parquet

		l/b [mm]	⌀14	⌀18	
	Delta-P knife curved	lime- and gypsum plaster, parquet, laminat, bitumen, strong tiles, natural-stone boards, magnesit bounded wood-wool building slab, gypsum plaster boards, lathing	300/80	M 408 P	M 408.18 P
			300/100	M 410 P	M 410.18 P
	Delta-P knife curved with sharpening below	low-wear on uneven and rough surfaces e.g. concrete	300/80	M 408 UP	M 408.18 UP
			300/100	M 410 UP	M 410.18 UP
	Wide chisell XL curved with sharpening below	removing of bitumen, insulation board, thermal roof gravel	300/140	M 3140 U	M 3140.18 U
	Moil point	concrete, rock, lime-sand brickwork	⌀14 l = 260	M 100	M 100.18
			⌀18 l = 300		
			l = 400	M 100 L	M 100.18 L
	Flat chisel	concrete, rock, brickwork bonded screed, tiles in mortar bed, cement facing	⌀14 260/25	M 200	M 200.18
			⌀18 300/25		
			400/25	M 200 L	M 200.18 L
	Flat chisel curved	concrete, rock, brickwork, bonded screed, tiles in mortar bed, cement facing	260/25	M 200 B	---
			400/25	M 200 BL	---
	Wide chisel	insistable plaster, brickwork, tiles in mortar bed, swimming screed	⌀14 260/40	M 340	M 340.18
			⌀18 300/40		
		cement- and lime-cement plaster	260/60	M 360	M 360.18
		lime- and gypsum plaster	260/80	M 380	M 380.18
	Spade chisel	removing of solid ground until soil class 6	400/65	M 365	M 365.18



Roughening

- ▶ rehandle sandstone surfaces
- ▶ crush concrete edges

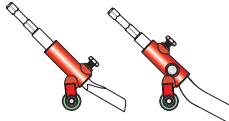
			l/b [mm]	⌀14	⌀18	
	Bush hammer	roughening and crush edges of concrete, screed, sandstone, granite		7x7 teeth 60 x 60	S 860 H	S 860.18 H
				9x9 teeth 80 x 80	S 880 H	S 880.18 H

① All Bush hammer are delivered with Conical holder KH 140 or KH 140.18
For further sizes of Conical holder please turn to page 25
The use of tools with 14 mm chisel input are limited, due to leverage force



Lay off joints

- ▶ cleaning brickwall joints
- ▶ remove bonded pavement

		l/b [mm]	14	18	
	Joint chisel	slotted joints in different depth	300/5	M 605	M 605.18
			300/7	M 607	M 607.18
	Joint chisel on rolls	taking off fair-faced brickwork-, plaster- and screed perpend joints by constant depth until 20 mm	300/5	M 605 R	M605.18R
			300/7	M 607 R	M607.18R
	Nose chisel	cleaning of bituminous joints	300/7	---	M 637.18
	Sheet metal chisel	rip off tin roofs, oil tanks, strapping	l = 300	M 650	M 650.18
	Sheet metal chisel on rolls	constant depth until 20 mm	l = 300	M 650 R	M650.18R
	Rollset	adapted for M 605, M 605.18, M 637.18, M 650, M 650.18 to change or upgrade		901 003	
	Gouge	wide joints, electric installation	260/22	M 725	M 725.18
			350/22	---	M725.18L
	Roller	constant joint depth, for Gouge		RW 700	
		constant joint depth, for Joint-Nose- and Sheet metal chisel		RW 600	

① For further tools to remove cement joints, please turn to page 18 and 20



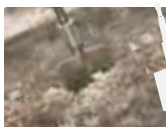
Cleaning

- ▶ Cleaning surfaces
- ▶ Cleaning scaffold parts

	Brush holder with brush	Cleaning dirty surfaces brushes exchangeable	l/b [mm] stainless steel brass steel 220 x 60	⊘14	⊘18
				VI8E200 H	VI8E200.18 H
				VI8M200H	VI8M200.18 H
				VI8S200 H	VI8S200.18 H
	Pipe scraper	cleaning off dirt- and plaster remains on scaffolding pipes	Ø 50	VI 7050 H	VI 7050.18 H

① Brush holder and Pipe scraper are delivered with Conical holder KH 140 or KH 140.18
For further sizes of Conical holder please turn to page 25

Subject to change without notice.



Digging

- ▶ loosening gravel and ground
- ▶ trepanning rootballs



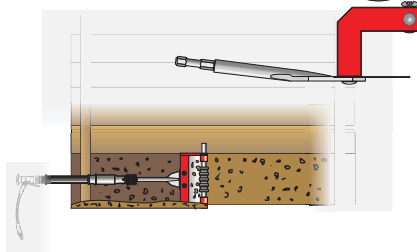
		I/b [mm]	14	18
Digging spade	short, for underpinning	I = 320 b = 120	GA 120 KH	GA 120.18 KH
	short, for underpinning	I = 370 b = 140	GA 140 KH	GA 140.18 KH
	universal, hardly loosening soil	I = 420 b = 140	GA 140 H	GA 140.18 H
	universal, hardly loosening soil	I = 430 b = 175	GA 175 H	GA 175.18 H
Root spade	cutting roots	I = 450 b = 140	GWA 140 H	GWA 140.18 H
Half-round spade	shoveling and undermining	I = 460 b = 160 <i>Profil</i>	GHA 160 H	GHA 160.18 H
Root ball spade	trepanning root balls	I = 450 b = 160	GBA 160 H	GBA 160.18 H
Clay spade	small, for clay- and loam soil	I = 460 b = 85/120	GTA 85 H	GTA 85.18 H
Berlin type pit lining slide	scraper device for loam soils with depth limiter for trench sheeting	b = 250	GBS 250 M	GBS 250.18 M

① All Spades are delivered with Conical holder KH 140 or KH 140.18

For further sizes of Conical holder please turn to page 25

Berlin type pit lining slide are delivered with Scraper holder M 5000 bzw. M5000.18

* The use of tools with 14 mm chisel input are limited, due to leverage force





Compacting

- ▶ compacting soil, concrete, gravel and asphalt
- ▶ construct pressed clay walls

		l/b [mm]	Ø14	Ø18
	Tamping plate round	soil, concrete, wet mix macadam, compacting filling material		
		Ø 70 l = 220	V 5070 H	V 5070.18 H
		Ø 95 l = 230	V 5095 H	V 5095.18 H
		Ø 108 l = 230	V 5108 H*	V 5108.18 H
		Ø 170 l = 230	V 5170 H*	V 5170.18 H
	semicircle	compacting around a canalisation entrance and underground hydrant		
		180/40 l = 230	V 6040 H	V 6040.18 H
	trapezoid	driving-in road markers, compacting narrow areas, filling material and taper corners		
		60-120/120 l = 230	V 4120 H	V 4120.18 H
		15-80/180 l = 230	V 4080 H	V 4080.18 H
	quadratic	compacting soil, concrete, wet mix macadam and filling material		
		100/100 l = 230	V 1100 H	V 1100.18 H
		120/120 l = 240	V 1120 H	V 1120.18 H
		140/140 l = 250	V 1140 H	V 1140.18 H
		170/170 l = 250	V 1170 H	V 1170.18 H
		200/200 l = 250	V 1200 H*	V 1200.18 H
		250/250 l = 250	V 1250 H*	V 1250.18 H
	curved	compacting compressed concrete lining by inclination		
		120/120 l = 240	V 1120 RH	V 1120.18 RH
	narrow	compacting of chappy soil, concrete and clay in moulds		
		150/35 l = 260	V 8150 H	V 8150.18 H
		200/35 l = 260	V 8200 H	V 8200.18 H
		250/35 l = 260	V 8250 H	V 8250.18 H
		300/35 l = 260	V 8300 H*	V 8300.18 H
	rectangular	compacting small ditches, between pipelines		
		160/50 l = 240	V 2050 H	V 2050.18 H
		340/80 l = 230	V 2080 H*	V 2080.18 H
		200/100 l = 240	V 2100 H	V 2100.18 H
	Cube packer	compacting small ditches, pipeline bed		
		340/120 l = 250	V 2120 H	V 2120.18 H
		400/Ø 50 l = 270	V 7045 H	V 7045.18 H

① All Tamping plates will be delivered with Conical holder KH 200 or KH 200.18

For further sizes of Conical holder please turn to page 25

On request we deliver Tamping plates also with volcanic plate

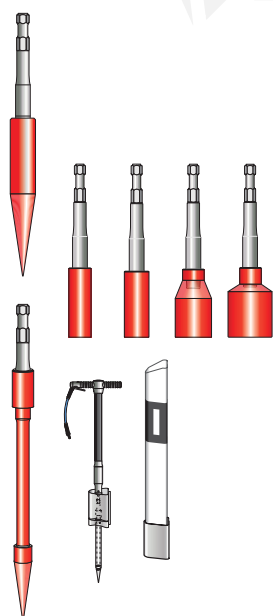
* If using VH 25 please consider to reduce the impact power

Subject to change without notice.



Pile driving

- ▶ driving-in holder, bushing and piles
- ▶ driving-in snow piles



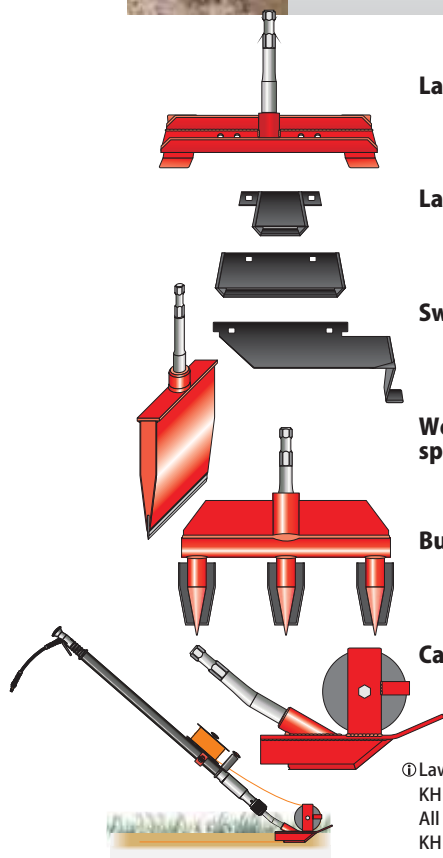
		l/b [mm]	⊕14	⊕18
Pile pitcher	making holes for snow-, sign- and fence piles	Ø 40	R 1040 H	R 1040.18 H
Pile driver	drive-in piles	○ inside-Ø 22	R 5022 H	R 5022.18 H
		○ inside-Ø 30	R 5030 H	R 5030.18 H
		○ inside-Ø 50	R 5050 H	R 5050.18 H
		○ inside-Ø 60	R 5060 H	R 5060.18 H
Propulsion peak	driving-in holding devices for e.g. road markers, playground tools anchorage and greenhouses		R 2028 H	R 2028.18 H

① All Pile pitches and all Pile drivers will be delivered with Conical holder KH 200 or KH 200.18
 Propulsion peak will be delivered with Conical holder KH 140 or KH 140.18



Park- & Golf course maintenance

- ▶ trimming lawn and sward edges
- ▶ digging plant holes

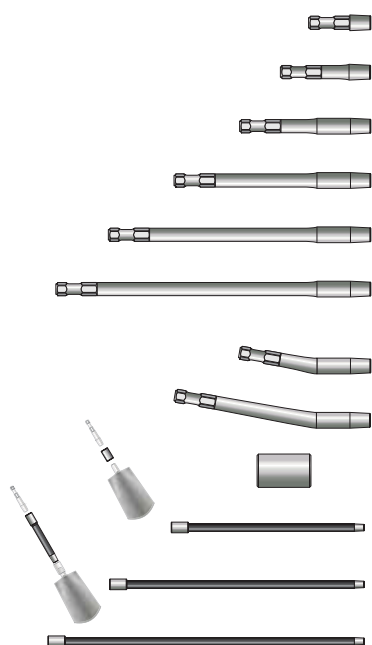


		l/b [mm]	⊕14	⊕18
Lawn slide	basic holder for Lawn skinner and Sward cutter		R 6000 H	R 6000.18 H
Lawn skinner	lawn peeling	b = 70	R 6070	
		b = 140	R 6140	
Sward cutter	cutting sward edges		R 6412	
Wedge-type spade	top soil slots 4-8 cm width for pipelines and amphibian fences	b = 230	R 5230 H	R 5230.18 H
Bulb finger	keeping equal hole center distances for e.g. bulbs on request other sizes available	3 peaks	R 7312 H	R 7312.18 H
		5 peaks	R 7512 H	R 7512.18 H
Cable plough	Lawn conserving and fast inserting of electromagnetic inducing cables for robot lawn mowers		R 8450 H	R 8450.18 H

① Lawn slide and Cable plough will be delivered with Conical holder KH 200 or KH 200.18 B
 All Bulb fingers and Wedge-type spades will be delivered with Conical holder KH 140 or KH 140.18



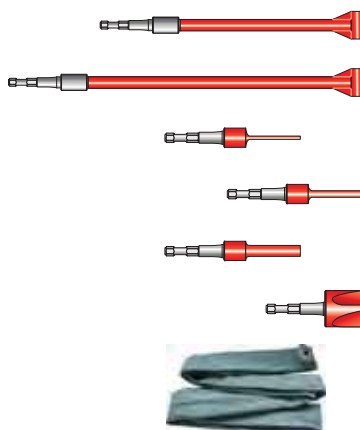
Conical supplies



		l/b [mm]	14	18
Conical holder	short version for special duties	l = 95	KH 95	KH 95.18
	standard for Digging spade, Bush hammer	l = 140	KH 140	KH 140.18
	standard for Compacting plate	l = 200	KH 200	KH 200.18
	long version for special duties	l = 300	KH 300 *	KH 300.18 *
		l = 400	KH 400 *	KH 400.18 *
		l = 500	KH 500 *	KH 500.18 *
Conical holder curved	for special duties	l = 200	---	KH 200.18 B
		l = 300	---	KH 300.18 B *
Conical adapter	connection joint between Conical holder and Conical extension		905 001	
Conical extension	for works which must be done with a safety zone, the Conical extension is placed between Conical holder and Spade	l = 600	KV 600 *	
		l = 800	KV 800 *	
		l = 1000	KV 1000 *	



Industry



		l/b [mm]	14	18
Tamper foot	cleaning cooling pipes in combustors	l = 470	VI 1470 H	VI 1470.18 H
		l = 770	VI 1770 H	VI 1770.18 H
Cleaning pin	break through openings	Ø 6 - 10	VI 30xx H	VI 30xx.18 H
		Ø 12 - 16	VI 30xx H	VI 30xx.18 H
		Ø 18 - 28	VI 30xx H	VI 30xx.18 H
Sheepfoot	fitting of industrial compact clay		VI 5065 H	VI 5065.18 H
Heat protection tube	machine protection until 650°C or 1150°C		On request	

① For further tools for industrial use please turn to page 18, 20

All Tamper- and Sheepfoot and Cleaning pin and will be delivered with Conical holder KH 140 or KH 140.18

* Over the standard size used Conical holder or Conical extension advance the lever arm and increase the risk of breakage on tool and equipment - Reduce leverage force
While working with VH 25 please remember the power of impact is reduced

Subject to change without notice.

9.1 Scraper holder assembly



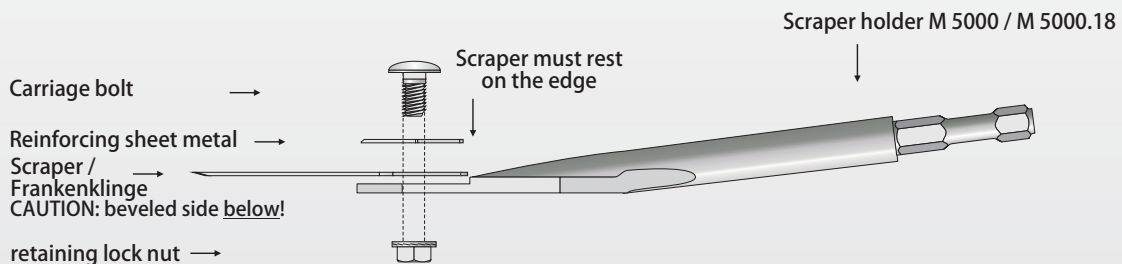
Risk of cuts when removing the tool

Wear suitable protective gloves!

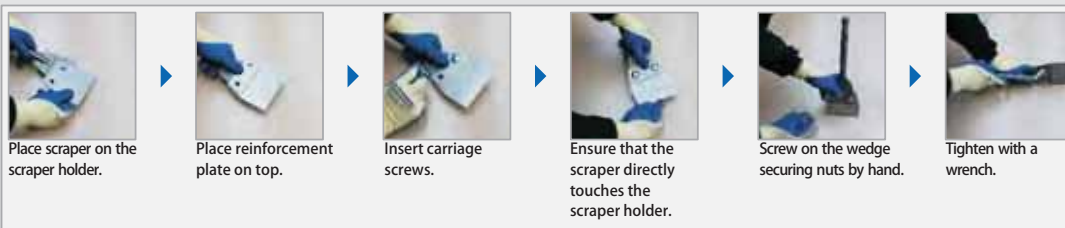
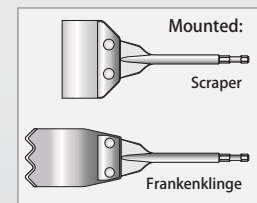
- The entire surface of the tool must rest on the holder milled surface and rest against the rear edge of the milled surface.
- The reinforcement plates are used to distribute the clamping forces and must be assembled if referred to in the assembly instructions.
- Foreign objects or adhesions between the components or too small contact surfaces can lead to tool breakage.
- Only remove the provided blade guard for the Frankenklinge® and double/cross blade for the period of work.

Check after approx. 15 minutes of operation to see if the fastening nut is fitting correctly and tighten if necessary.

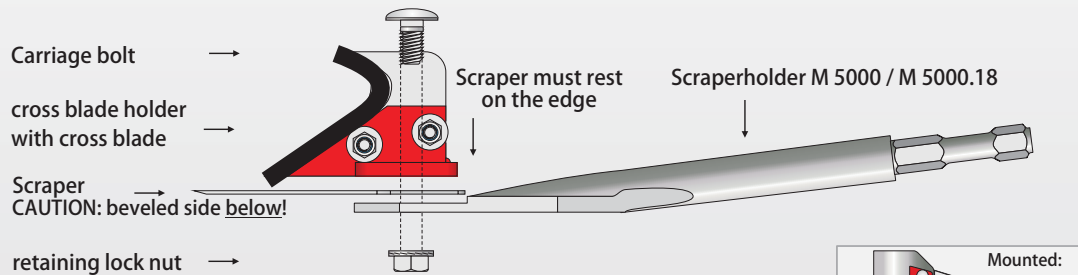
Attaching the scraper to the M 5000/M 5000.18 Scraper holder:



Reinforcing sheet metal for Scraper	100 - 120 mm width	902 004
	160 - 300 mm width	902 005
Mounting devices 2x Coach bolt, 2x retaining lock nut		902 008

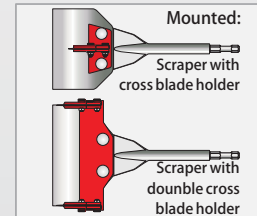


Attaching the double/cross blade holder and scraper to the M 5000/M 5000.18 scraper holder:



Mounting devices for double/cross blade holder
on scraper holder
2x carriage bolt, 2x retaining lock nut

902 016



Place double cross blade holder and scraper on the scraper holder.



Insert carriage screws.



Screw on the wedge securing nuts by hand.

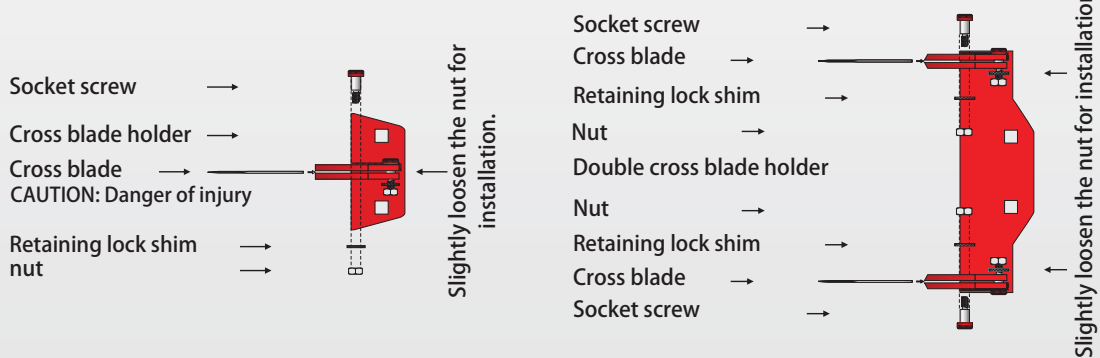


Align the double cross blade holder parallel to the scraper.



Tighten with a wrench.

Assembling the B 55 cross blade:



Mounting devices Cross blade in Cross blade holder
1x Socket screw, 2x Retaining lock shim, 2x Nut
(by Double cross blade holder, order 2 x 902 017)

902 017



Insert the cross blade into the cross blade holder.



Pat in with the hammer until the stop.



The cross blade must lie flush against the scraper.



Insert the conical jack screw through the cross blade and cross blade holder.



Tighten with a wrench (10mm) and Allen key (4mm).

Subject to change without notice.

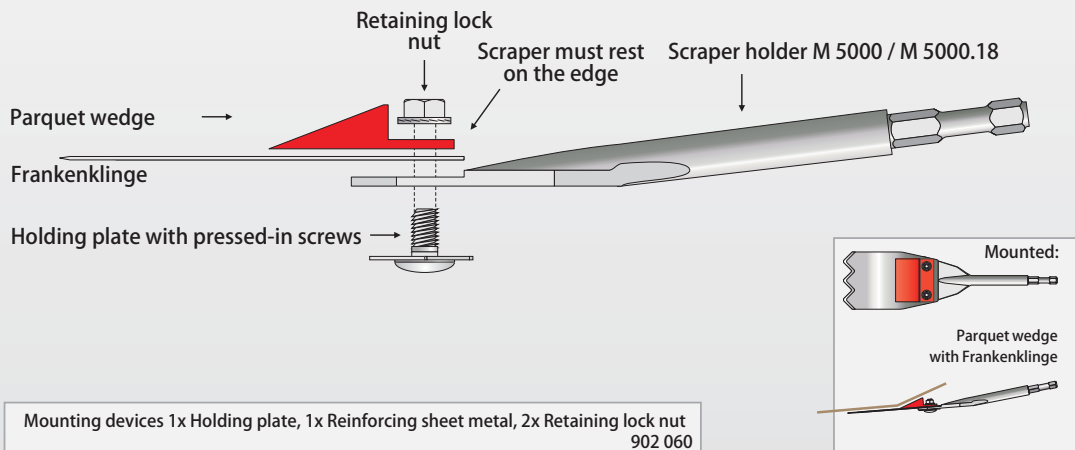
Contact:

+49(0)9278/77433-0

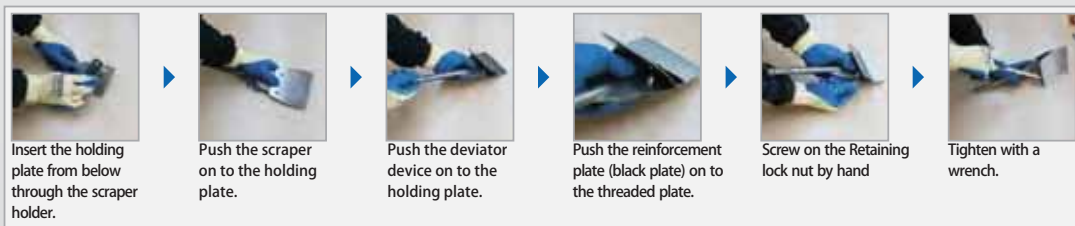
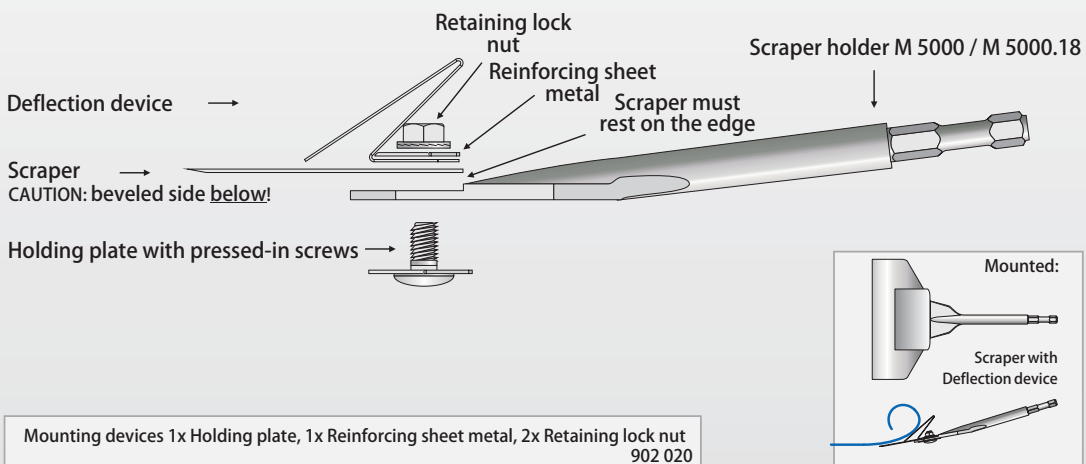
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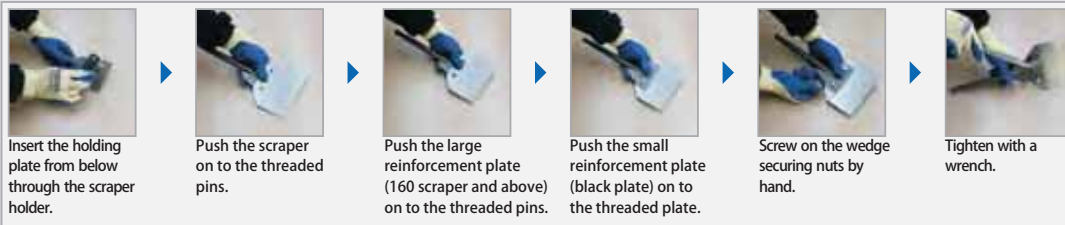
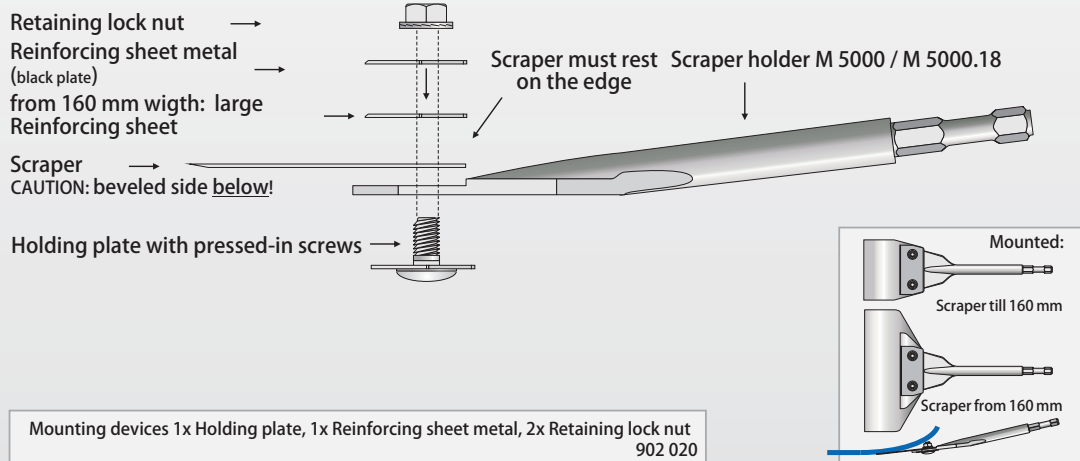
Attaching the parquet wedge and Frankenklinge® blades to the M 5000/M 5000.18 scraper holder:



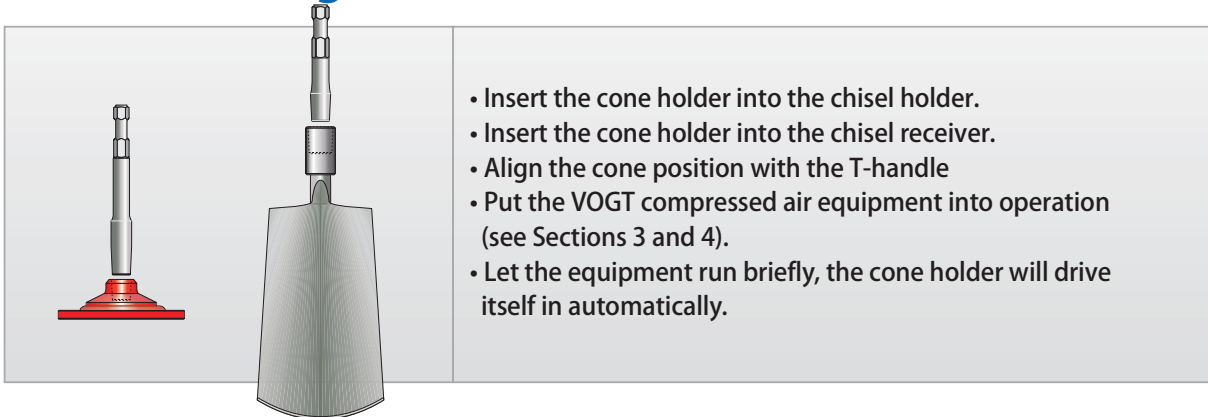
Attaching the deflection device and scrapers to the M 5000/M 5000.18 scraper holder:



Attaching scrapers to the M 5000 scraper holder, assembly from below:



9.2 Assembling the cone holder in the conical receiver



10 Compressed air hose



Compressed air hose

- ▶ high quality
- ▶ suitable operation



		length	
Metal hose drum	PU-air hose 10x14,5 complete with connections and bend protection	l = 20 m	Z100
PU-compressed air hose	very flexible, 9x14 complete with connections and bend protection	l = 10 m	Z110
Flat air hose 3/4 inch	full-syntetic with claw coupling	l = 10 m	813 010
		l = 20 m	813 020
Flat air hose 1 inch	full-syntetic with claw coupling	l = 10 m	816 010
		l = 20 m	816 020
Flat air hose 1 1/4 inch jet tapper hose	full-syntetic with claw coupling	l = 10 m	817 010
		l = 20 m	817 020

① On request we deliver flat air hoses until 60m

11 Compressor



Petrol- & Dieselcompressor

- ▶ powerful and high performance
- ▶ independent of power supply system

	effective capacity at 7 bar	weight	size	energy	
 Kaeser Mobilair M 13 screw compressor	1200 l / min	190 kg	l = 1080 mm 1390 mm b = 800 mm h = 790 mm	Honda 2cyl. 4-stroke petrol engine 13,2 kW	M 13
① usable until up to five VOGT Hammer or VOGT TurboSpade					
 Kaeser Mobilair M 30 screw compressor	3000 l / min	505 kg	l = 1515 mm 3120 mm b = 1260 mm h = 1200 mm	Kubota 3cyl. 4-stroke diesel engine 24,1 kW	M 30
① useable until up to twelve VOGT Hammer or VOGT TurboSpade, or one VOGT Air Lance, or two VOGT Jet Tapper or VOGT Geo Injector					



230 V Compressor

- ▶ robust and long lasting
- ▶ with 230 V, useable anywhere



	displacement filling volume	effective at 7 bar tank capacity	weight	size	energy	
Kaeser Premium Compact 350/30 W 1 piston standard filter solid rubber wheels	350 l / min 285 l / min	220 l / min 30 l	70 kg	l = 570 mm b = 640 mm h = 1010 mm	230 V 16 A 1,9 kW	PC 350/30 W
	① usable for one VOGT Hammer Typ VH 25 on request compressor with star wheels					
Kaeser Premium Compact 400/30 PW 2 piston Pico paper air filter air wheels	450 l / min 370 l / min	285 l / min 30 l	79 kg	l = 640 mm b = 570 mm h = 1010 mm	230 V 16 A 2,2 kW	KC 400/30 PW
	① usable for one VOGT Hammer or VOGT TurboSpade on request compressor with star wheels					
VOGT CompactRack Retrofittable & removable for every KC 400/30PW			13 kg	l = 270 mm b = 500 mm h = 700 mm		801 001
	① Enables fast relocation. Compact holder for VOGT Hammer, Tools, Accessories und Metal hose drum. Delivery without Metal hose drum, Compressor, Hammer, Tools and Accessories					
Kaeser Premium Car 450/30 PW 2 piston Pico paper air filter air wheels	450 l / min 370 l / min	285 l / min 30 l	86 kg	l = 870 mm b = 560 mm h = 590 mm	230 V 16 A 2,2 kW	PC 450/30 PW
	① usable for one VOGT Hammer or VOGT TurboSpade on request compressor with star wheels					
Compressed-air Storage aluminium pressure tested until 30 bar		---	6 kg			VDP 33K
	① additional compressed air reservoir is providing air pressure if compressor works at upper limit increasing the air volume by soil detonation with Vogt Soil Aerator					



400 V Compressor

- ▶ powerful and long lasting
- ▶ airpressure for more then one tool



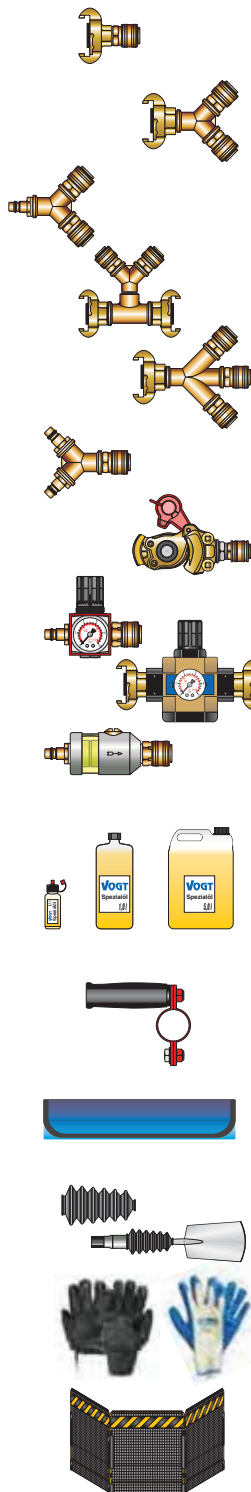
	displacement filling volume	effective at 7 bar tank capacity	weight	size	energy	
Kaeser Premium Car 660/70 D 2 piston Pico paper air filter air wheels	660 l / min 545 l / min	425 l / min 70 l	118 kg	l = 1060 mm b = 700 mm h = 630 mm	400 V 16 A 3 kW	PC 660/70 PD
	① usable until two VOGT Hammer Typ VH 25 or for one VOGT Hammer or VOGT TurboSpade					
Kaeser Mobilair M 13 E screw compressor		1200 l / min	190 kg	l = 1080 mm 1390 mm b = 800 mm h = 790 mm	400 V 32 A 7,5 kW	M 13 E
	① usable until up to five VOGT Hammer or VOGT TurboSpade					

Subject to change without notice.

12 Air accessories



Air accessories



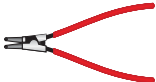
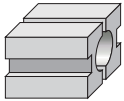
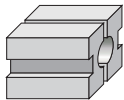
Adapter	3/4 inch to standard connection	Z 200
	3/4 inch to 2 x standard connection	Z 220
Distributor	standard connection to 2 x 3/8 inch	Z 230
	2x 3/4 inch to 2 x standard connection	Z 240
	3/4 inch to 3 x standard connection	Z 250
Collector	2 x standard connection to standard connection in order to bring two air lines together	Z 260
Filling connection for vehicles	useable to get compressed air from a vehicle/truck	Z 700
Pressure controller	with manometer metal protection, standard connection, adjustable by 0,5 - 10 bar	Z 400
	with manometer , 3/4 inch connection, adjustable by 0,5 - 16 bar	Z 410
Precision in-line oiler	"maintenance unit" for VH / VTS, lubricating tool and chisel input	Z 300
VOGT special-oil	not resinating - for constant maximum power of impact	0,1 liter Z 510
		1,0 liter Z 500
		5,0 liter Z 550
Handle	for better handling	VH 25 Z 625
		VH 50 VH 50.18 Z 650
Sound absorber	cover the hammer mechanism, absorbing the sound level	VH 25 VH 50 VH 50.18 VTS 50 Z 850
		VH 25 Z 925
Protection bag	protecting the chisel input against dust	VH 50 VH 50.18 VTS 50 Z 950
Working gloves	maximum damping for permanent work, made of sturdy leather	870 006
	gummed cotton working gloves for good grip, blue	870 005
Safty fence	light, 3-piece protection fence, dimensions by piece 100 x 100 cm, weight 11 kg	Z 900

① Compressed air hose and Metal hose drum, please turn to page 30

13 Repairing tools



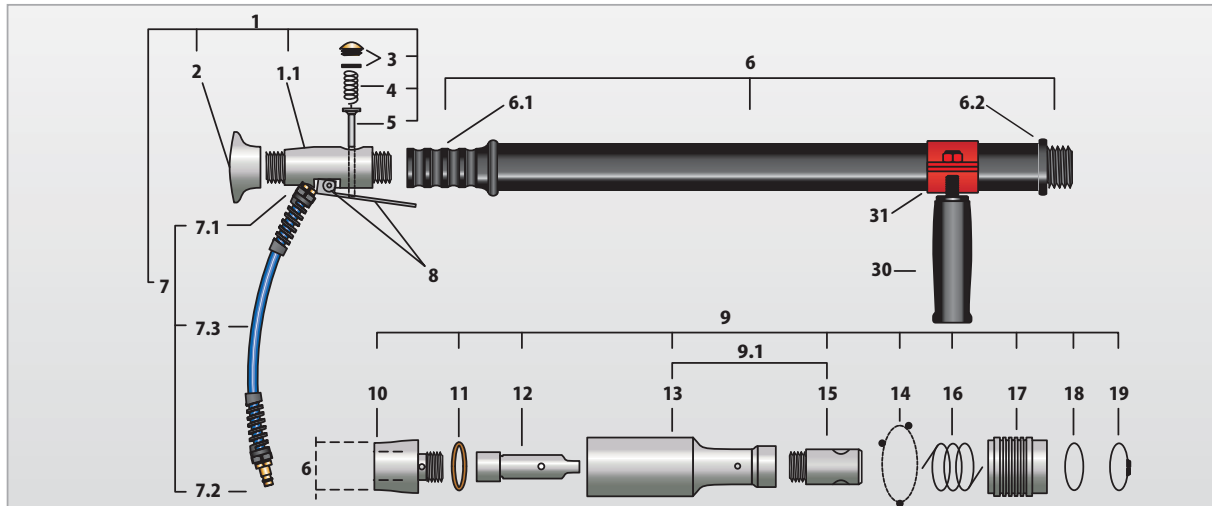
Repairing tools

			model	
	Grinding disk Ø 125 mm	beveling chisel and scraper with angle grinder	24er grain size für chisel	861 008
			40er grain size für Scraper	861 001
	Ring wrench 15 - 19	deep-offset, for Scraper holder and Handle		861 004
	Allen key 18 mm	heavy wrench for changing chisel input or stick	VH 50.18 VTS 50	150 240
	Retaining ring tong	changing the retaining ring	VH 25 VH 50 VH 50.18 VTS 50	861 005
	Ring wrench for hammer mechanism	heavy wrench for unscrewing hammer mechanism	VH 25	025 230
			VH 50 VH 50.18 VTS 50	050 230
	Clamping jaws for hammer mechanism	repairing hammer mechanism	VH 25	025 200
			VH 50 VH 50.18 VTS 50	050 200
	Clamping jaws for handle	changing stick	VH 25	025 210
			VH 50 VH 50.18 VTS 50	050 210
	Clamping jaws for stick	light model for changing stick with magnetic adhesive force	VH 25	025 250
			VH 50 VH 50.18 VTS 50	050 250
	Thread- sealing	bonding stick, 50 ml	VTS 50	861 013
	Screw locking- Set	cleaning and bonding chisel input, 400 ml / 10 ml	VH 25 VH 50 VH 50.18 VTS 50	861 014
	Cleaner	cleaning hammer mechanism, when dirt or to much lubrication is in the housing, 500 ml	VH 25 VH 50 VH 50.18 VTS 50	861 015
	Handcleansing- Cream	for extremly dirt e.g. bitumen, paint, oil and so on, 200 ml		870 011

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14 Spareparts

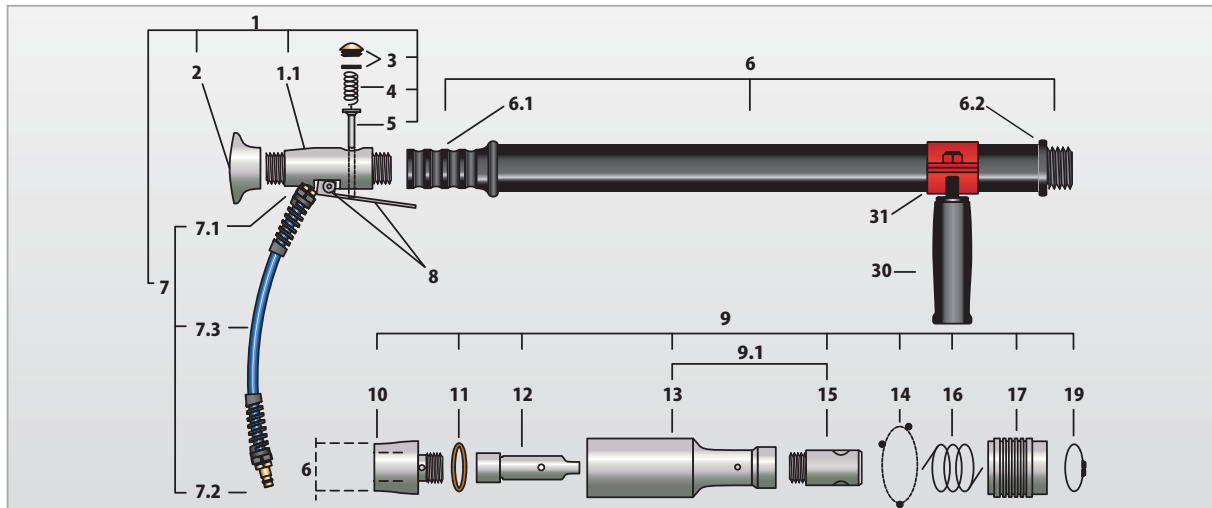
14.1 Spareparts VH 25



Pos.	Description	Item No.
1	Actuator, complete (pos. 1.1 - 5, 7, 8)	025 011
2	Hand piece, round	025 012
3	Plug with O-ring	025 013
4	Valve spring	025 014
5	Valve with O-ring	025 015
6	Stick	Sticklength 20 cm (VH 25-20 / Toollength 58 cm) 025 016/20 Sticklength 40 cm (VH 25-40 / Toollength 72 cm) 025 016/40 Sticklength 60 cm (VH 25-60 / Toollength 92 cm) 025 016/60 Sticklength 80 cm (VH 25-80 / Toollength 112 cm) 025 016/80 Sticklength 100 cm (VH 25-100 / Toollength 132 cm) 025 016/100
6.1	Handle for stick	025 016/G
6.2	Ring for stick	025 016/R
7	Adapter and Streamline hose + socket (pos. 7.1 - 7.3)	025 017
7.1	Adapter with swivel nut for Streamline hose	025 017/1
7.2	Socket with swivel nut for Streamline hose	025 017/2
7.3	Streamline hose, 8 x 12	025 017/3
8	Engaging lever with bolt	025 018
9	Rammer complete mounted (pos. 10 - 17, 19)	025 060
9.1	Housing with Tool holder mounted (pos. 13, 15)	025 061
10	Screwed connection (stick fitting)	025 020
11	Copper gasket (solid)	025 021
12	Piston	025 022
13	Housing	025 023
14	Ball set (3 pcs.)	025 024
15	Tool holder	025 025
16	Spring for clamping sleeve	025 026
17	Clamping sleeve (quick-action ring) with O-ring (pos. 18)	025 027
18	O-ring	025 028
19	Retaining ring	025 029
20.1	Transport case (not illustrated) VH 25-20, VH 25-40 and VH 25-60	025 030/60
20.2	VH 25-80 and VH 25-100	025 030/100
30	Supporting handle	025 040
31	Supporting handle clamp	025 041
32	Operation Manual (not illustrated)	890 005

Shorter and longer sticks on request. Repairing tools turn to page 33.

14.2 Spareparts VH 50

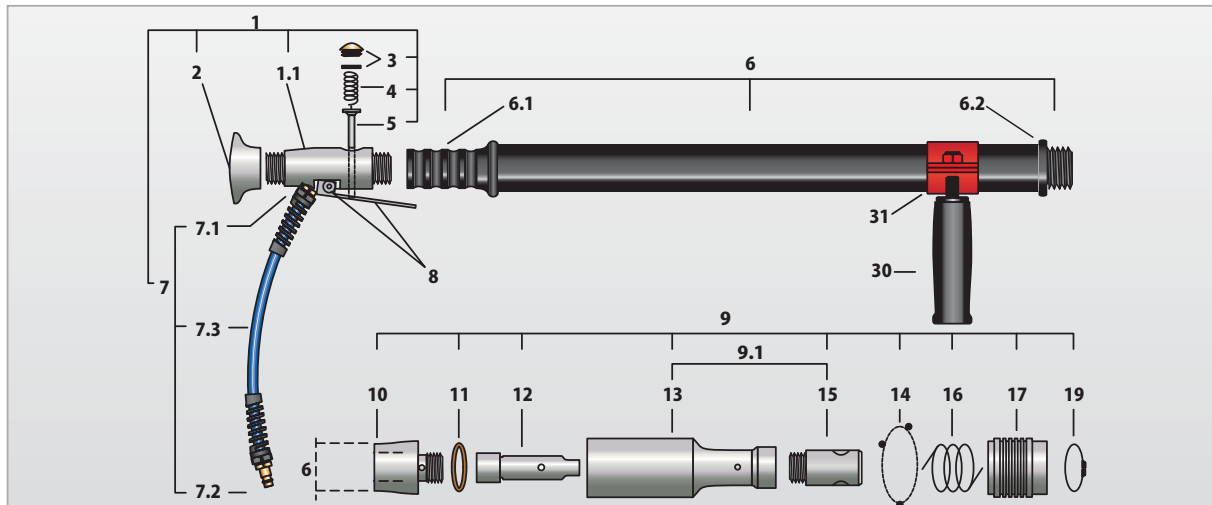


Pos.	Description	Item No.
1	Actuator, complete (pos. 1.1 - 5, 7, 8)	025 011
2	Hand piece, round	025 012
3	Plug with O-ring	025 013
4	Valve spring	025 014
5	Valve with O-ring	025 015
6	Stick	Sticklength 20 cm (VH 50-20 / Toollength 58 cm) Sticklength 40 cm (VH 50-40 / Toollength 72 cm) Sticklength 60 cm (VH 50-60 / Toollength 92 cm) Sticklength 80 cm (VH 50-80 / Toollength 112 cm) Sticklength 100 cm (VH 50-100 / Toollength 132 cm)
6.1	Handle for stick	025 016/G
6.2	Ring for stick	050 016/R
7	Adapter and Streamline hose + socket (pos. 7.1 - 7.3)	025 017
7.1	Adapter with swivel nut for Streamline hose	025 017/1
7.2	Socket with swivel nut for Streamline hose	025 017/2
7.3	Streamline hose, 8 x 12	025 017/3
8	Engaging lever with bolt	025 018
9	Rammer complete mounted (pos. 10 - 19)	050 060
9.1	Housing with Tool holder mounted (pos. 13, 15)	050 061
10	Screwed connection (stick fitting)	050 020
11	Copper gasket (solid)	050 021
12	Piston	050 022
13	Housing	050 023
14	Ball set (3 pcs.)	050 024
15	Tool holder	050 025
16	Spring for clamping sleeve	050 026
17	Clamping sleeve (quick-action ring)	050 027
19	Retaining ring	050 029
20.1	Transport case (not illustrated) VH 50-20, VH 50-40 and VH 50-60	050 030/60
20.2	VH 50-80 and VH 50-100	050 030/100
30	Supporting handle	050 040
31	Supporting handle clamp	050 041
32	Operation Manual (not illustrated)	890 005

Shorter and longer sticks on request. Repairing tools turn to page 33.

Subject to change without notice.

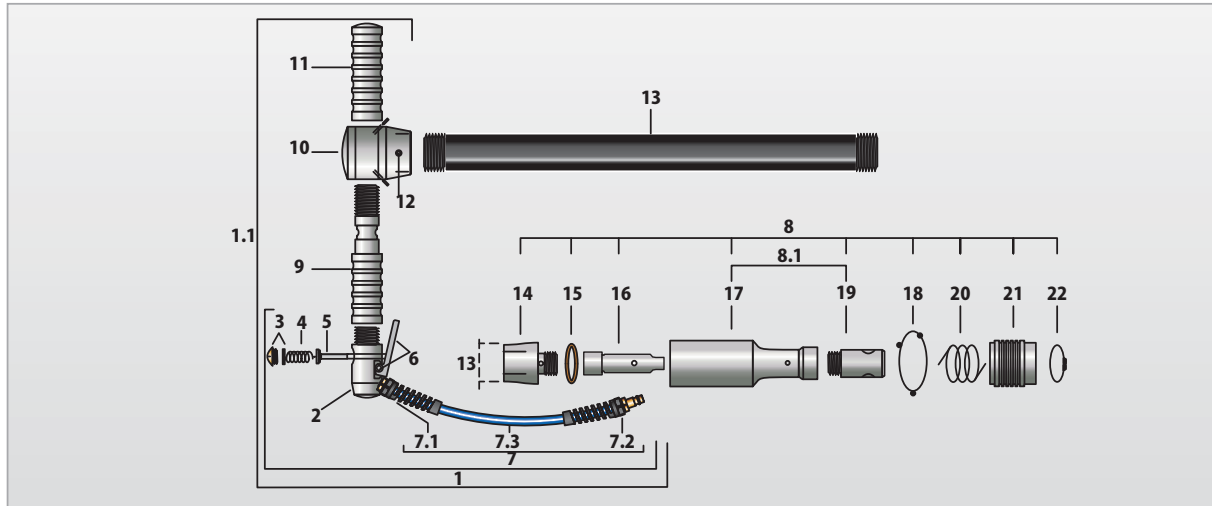
14.3 Spareparts VH 50.18



Pos.	Description	Item No.
1	Actuator, complete (pos. 1.1 - 5, 7, 8)	025 011
2	Hand piece, round	025 012
3	Plug with O-ring	025 013
4	Valve spring	025 014
5	Valve with O-ring	025 015
6	Stick	Sticklength 20 cm (VH 50-20.18 / Toollength 58 cm) 050 016/20 Sticklength 40 cm (VH 50-40.18 / Toollength 72 cm) 050 016/40 Sticklength 60 cm (VH 50-60.18 / Toollength 92 cm) 050 016/60 Sticklength 80 cm (VH 50-80.18 / Toollength 112 cm) 050 016/80 Sticklength 100 cm (VH 50-100.18 / Tooll. 132 cm) 050 016/100
6.1	Handle for stick	025 016/G
6.2	Ring for stick	050 016/R
7	Adapter and Streamline hose + socket (pos. 7.1 - 7.3)	025 017
7.1	Adapter with swivel nut for Streamline hose	025 017/1
7.2	Socket with swivel nut for Streamline hose	025 017/2
7.3	Streamline hose, 8 x 12	025 017/3
8	Engaging lever with bolt	025 018
9	Rammer complete mounted (pos. 10 - 17, 19)	050 060.18
9.1	Housing with Tool holder mounted (pos. 13, 15)	050 061.18
10	Screwed connection (stick fitting)	050 020
11	Copper gasket (solid)	050 021
12	Piston for 18 mm hexagon	150 022
13	Housing	050 023
14	Ball set (3 pcs.) for 18 mm hexagon	150 024
15	Tool holder 18 mm hexagon	150 025
16	Spring for clamping sleeve	050 026
17	Clamping sleeve (quick-action ring)	050 027
19	Retaining ring	050 029
20.1	Transport case (not illustrated) VH 50-20.18, VH 50-40.18 and VH 50-60.18	050 030/60.18
20.2	VH 50-80.18 und VH 50-100.18	050 030/100.18
30	Supporting handle	050 040
31	Supporting handle clamp	050 041
32	Operation Manual (not illustrated)	890 005

Shorter and longer sticks on request. Repairing tools turn to page 33.

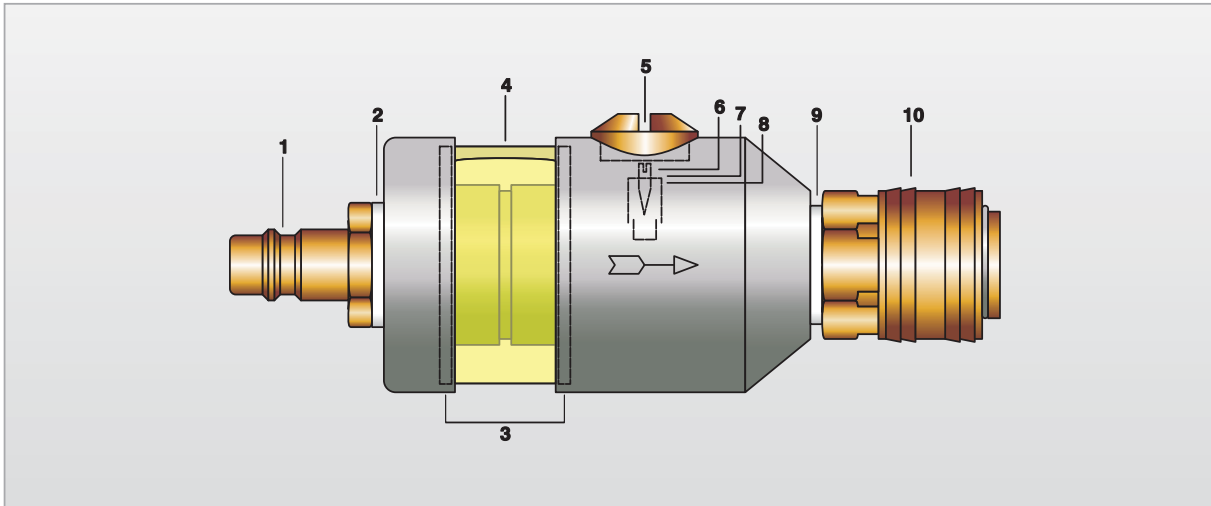
14.4 Spareparts VTS 50



Pos.	Description	Item No.
1.1	T-Handle, complete (pos. 1, 9 - 12)	150 090
1	Actuator, complete (pos. 2 - 7)	150 010
3	Plug with O-ring	025 013
4	Valve spring	025 014
5	Valve with O-ring	025 015
6	Engaging lever with bolt	025 018
7	Adapter and Streamline hose + socket (pos. 7.1 - 7.3)	025 017
7.1	Adapter with swivel nut for Streamline hose	025 017/1
7.2	Socket with swivel nut for Streamline hose	025 017/2
7.3	Streamline hose, 8 x 12	025 017/3
8	Rammer complete mounted (pos. 14 - 22)	150 100.18
8.1	Housing and tool holder mounted (pos. 17, 19)	150 101.18
9	Handle adapter	150 040
10	Distribution head	150 050
11	Handle	150 060
12	Fastening screw	150 070
13	Stick with thread	Sticklength 40 cm (VTS 50-80 / total length 80 cm) 150 080/40
		Sticklength 10 cm (VTS 50-50 / total length 50 cm) 150 080/10
		Sticklength 25 cm (VTS 50-65 / total length 65 cm) 150 080/25
		Sticklength 80 cm (VTS 50-120 / total length 120 cm) 150 080/80
14	Screwed connection (stick fitting)	050 020
15	Copper gasket (solid)	050 021
16	Piston for 18 mm hexagon	150 022
17	Housing	050 023
18	Ball set (3 pcs.) for 18 mm hexagon	150 024
19	Tool holder 18 mm hexagon	150 025
20	Spring for clamping sleeve	050 026
21	Clamping sleeve (quick-action ring)	050 027
22	Retaining ring	050 029
23	Transport case (not illustrated)	150 030
24	Operation Manual (not illustrated)	890 003

Shorter and longer sticks on request. Repairing tools turn to page 33.

14.4 Spareparts Precision Inline Oiler Z 300



Pos.	Bezeichnung	Bestell-Nr.
1	Plug with outside thread 3/8"	991 009
2	Packing ring	991 002
3	O-ring for viewing glass	990 012
4	Viewing glass	990 011
5	Sealing plug with O-Ring	990 013
6	Adjustment screw with O-ring	990 014
7	O-ring for intereoor sealing	990 019
8	Socket for adjustment screw	990 018
9	Packing ring	992 002
10	Coupling with outside thread 3/8"	991 003

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Änderungen vorbehalten.

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