

## 19015

## Adjustable circular cutter

### Design

Circular cutter equipped with 1 HSS-E blade (draw cut to 5 mm).

### Applications

#### On stationary drills.

For cutting holes, discs and rings.

#### Note:

Do not use in high-speed machines!

Do not use to process wood!

### 19015 101

**Type Liliput**  
**Version**

Cutting range 18–80 mm, shank diameter 10 mm.

### 19015 103

**type 00**  
**Version**

Cutting range 30–200 mm, shank diameter 12 mm.

### 19015 104

**Type 00**  
**Version**

Cutting range 30–200 mm, shank MT 2.

### 19015 105

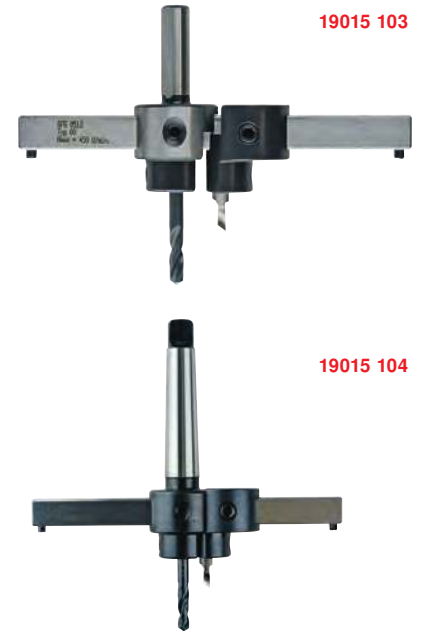
**Type 00**  
**Version**

Cutting range 30–200 mm, shank MT 3.

### 19015 106

**Type 00a**  
**Design**


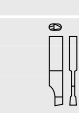

Cutting range 30–400 mm, shank MT 3.



Type	Cutting range diameter mm	Shank diameter mm	Shank MT	19015	...
Liliput	18–80	10	–		101
00	30–200	12	–		103
00	30–200	–	2		104
00	30–200	–	3		105
00a	30–400	–	3		106

## 19026 - 19028

## Blade and blade holder for circular cutter

Use for type	Liliput	00 + 00a	00A			
Version	19026	...	19027	...	19028	...
<b>Blade</b> (draw cut) for sheet metal up to 5 mm For use on steel, non-ferrous metals or light metals, made from <b>HSS-E</b> .		101		101		
<b>Blade</b> , oblique, for metals up to 5 mm <b>Carbide-tipped.</b>		102		102		
<b>Additional blade holder</b> for oblique blade end no. 101 and 102.					104	
<b>Blade</b> for sealants, plastic panels Rubber, leather, etc. up to approx. 10 mm, made of <b>HSS-E</b> .		105		105		
<b>Blade</b> for plastics up to approx. 30 mm, as well as Novotex, Pertinax, Plexiglas, etc., made from <b>HSS-E</b> .		106		106		
<b>Blade</b> for plastics up to approx. 30 mm, as well as Novotex, Pertinax, Plexiglas, etc., <b>carbide-tipped.</b>		107		107		
<b>Additional blade holder</b> for straight blade end no. 105, 106 and 107.					109	
<b>Blade</b> in a reinforced version for panels up to approx. 12 mm And bores from approximately 34 to 150 mm diameter, made of <b>HSS-E</b> .						111
<b>Special blade holder</b> for reinforced HSS-E blade end no. 111.						112

Al<10%Si	Al>10%Si	Cu	St<520N	St<750N	St<900N	St<1100N	St<1200N	St<1400N	<45HRC	<55HRC	<60HRC	<67HRC	VA<900N	VA>900N	Ti alloy	GG(G)	Plastic
<b>HSS-E</b>																	
35–50	35–50	25–40	25–30	25–30	22–25	22–25	22–25	22–25	-	-	-	-	16–19	16–19	-	16–24	35–50
<b>Carbide-tipped</b>																	
60–90	60–90	45–70	45–54	45–54	40–45	40–45	40–45	40–45	-	-	-	-	28–34	28–34	-	28–42	70–90

19095

Jetspray minimum quantity lubrication system (MMS)

**Design**

Jetspray works without a pump and is compact and space-saving. The device is suitable for all machines (machining centres, mills, drills, saws etc.). Installation and connection take only a few minutes.

- Optimal and economical use of coolant
- Simple, separate adjustment of coolant volume and air supply
- Precise tool lubrication through one or two nozzles
- Increased tool service life
- Coolant disposal costs avoided
- All parts in stainless steel design
- Different lengths of suction hose
- Strong prismatic magnetic base with on/off switch

**19095 101-109**

**Scope of delivery:**

- 1 single spray system with a high-quality LOC-LINE hose
- 1 control valve
- 1 pressure line
- 1 suction line for coolant
- 1 strong magnet (can be switched on/off)



19095 101-109

**19095 201-209**

**Scope of delivery:**

- 1 double spray system with a high-quality LOC-LINE hose
- 1 control valve
- 1 pressure line
- 1 suction line for coolant
- 1 strong magnet (can be switched on/off)



19095 201-209

Multi-link hose length mm	Pneumatic hose m	Suction line m	Single spray system		Double spray system	
			19095	...	19095	...
203	2	2		101		201
273	2	2		105		205
375	2	2		109		209

19350

Coolant tap

**Design**

- With magnet 260 N
- Flexible hose 300 mm long
- Adjustable stopcock
- Hose connector R1/4 inch or LW 8 hose nozzle

**Applications**

The coolant tap can be attached anywhere on the machine tool or directly on the workpiece.



19350

				19350	...
					101

19355

Flexible aluminium coolant hoses

19355 101

Design

- Fits all conventional tool carriers
- Flexible and versatile
- Can be used with up to 80 bar high pressure
- Versatile
- Long service life thanks to anodised coating
- Low weight
- New design
- 100% Swiss-made

19355 201-219

Design

1/4-inch individual elements

Note:

Further individual parts available on request.



19355 101

1/4-inch set configuration	
	3 spacer pieces, 28 mm
	3 spacer pieces, 43 mm
	3 spacer pieces, 70 mm
	1 threaded connector, 1/4 inch
	1 threaded connector, 1/4 inch NPT
	1 threaded connector, 1/8 inch NPT
	1 threaded connector M, 10x1
	1 threaded connector M, 12x1
	1 round nozzle, diameter 3.5 mm
	1 round nozzle, diameter 4.5 mm
	1 round nozzle, diameter 5.5 mm
	1 special nozzle, diameter 1.8/60°, short
	1 special nozzle, diameter 1.8/60°, long
	1 special nozzle, diameter 1.8/90°, short
	1 special nozzle, diameter 1.8/90°, long
	5 nuts, spanner size 16x7 mm
	1 flat nozzle, 22 mm
	1 complete manifold
	1 hexagon key, spanner size 11 mm/16 mm



Kit	Contents	19355	...
1/4-inch kit	29 pieces		101

Individual elements		1/4 inch	...
		19355	
	Spacer piece 28 mm		201
	Spacer piece 43 mm		202
	Spacer piece 70 mm		203
	Threaded connector 1/4 inch		204
	Threaded connector 1/4 inch NPT		205
	Threaded connector 1/8 inch NPT		206
	Threaded connector M 10x1		207
	Threaded connector M 12x1		208
	Round nozzle, diameter 3.5 mm		209
	Round nozzle, diameter 4.5 mm		210
	Round nozzle, diameter 5.5 mm		211
	Special nozzle, diameter 1.8/60°, short		212
	Special nozzle, diameter 1.8/60°, long		213
	Special nozzle, diameter 1.8/90°, short		214
	Special nozzle, diameter 1.8/90°, long		215
	Nut, spanner size 16x7 mm		216
	Flat nozzle, 22 mm		217
	Complete manifold		218
	Hexagon key, spanner size 11 mm/16 mm		219



19357 - 19359 Flexible plastic coolant hoses

**LOC-LINE FLEXI**  
DAS ORIGINAL

**Design**

- Can be shortened or extended as necessary
- Insensitive to vibration, hose remains in position
- Rust-proof and resistant to chemicals and solvents
- Nozzles, junctions and fittings can be easily replaced

**19357 101**  
1/4-inch kit, 29 pieces,  
in plastic box.

**19357 102**  
1/2 inch kit, 33 pieces,  
in plastic box.



**19357 102**

**1/4-inch set configuration**

- 8 hose sections of 90 mm
- 3 threaded connectors, NPT 1/8 inch
- 3 threaded connectors, NPT 1/4 inch
- 3 round nozzles, diameter 1.5 mm
- 3 round nozzles, diameter 3.0 mm
- 3 round nozzles, diameter 6.0 mm
- 1 hole nozzle, 5 x 1.5 mm diameter
- 1 hole nozzle, 7 x 1.0 mm diameter
- 1 flat nozzle, 25 x 0.8 mm
- 1 stopcock with segment connector
- 1 Y branch piece
- 1 setting tool

**1/2-inch set configuration**

- 6 hose sections of 140 mm
- 4 threaded connectors, NPT 3/8 inch
- 4 threaded connectors, NPT 1/2 inch
- 2 round nozzles, diameter 6 mm
- 2 round nozzles, diameter 9 mm
- 2 round nozzles, diameter 12 mm
- 1 90° nozzle, diameter 9 mm
- 1 90° nozzle, diameter 12 mm
- 2 flat nozzles, 32 x 4.2 mm
- 2 flat nozzles, 63 x 2.8 mm
- 1 stopcock with segment connector
- 2 extensions, each 95 mm
- 2 clamping rings
- 1 Y branch piece
- 1 setting tool

Sets	Contents	19357	...
1/4-inch set	29 pieces		101
1/2-inch set	33 pieces		102

**19358 101**  
1/4-inch set, 7 pieces.

**19358 104-145**  
1/4-inch individual elements

1/4 inch

**Set + single elements**

19358

...





























Set consisting of:		
	2 hose sections, each approx. 140 mm	
	1 each of round nozzle diameter 1.5/3 and 6 mm	
	1 each of threaded connector NPT 1/8 inch and 1/4 inch	101
	2 hose sections, each approx. 140 mm	104
	7.5-m hose in 55 pieces of 140 mm each	106
	1 pack of 4 pieces, threaded connector NPT 1/8 inch	110
	1 pack of 4 pieces, threaded connector NPT 1/4 inch	111
	1 pack of 4 pieces, round nozzle diameter 1.5 mm	112
	1 pack of 4 pieces, round nozzle diameter 3.0 mm	113
	1 pack of 4 pieces, round nozzle diameter 6.0 mm	114
	1 pack of 2 pieces, flat nozzle 25 x 0.8 mm	115
	1 pack of 2 pieces, pivot nozzle diameter 1 mm x 16	120
1 pack consisting of:		
	1 each of flat nozzle 12 x 1.0 and 12 x 1.5 mm	
	1 each of injector nozzle 5 x diameter 1.5 and 7 x diameter 1.0 mm	124
	1 pack of 2 pieces, Y branch	128
	1 pack of 4 pieces, extensions 95 mm with clamping ring	131
	1 ring system with 15 side nozzles	132
	1 pack of 2 pieces, check valve	135
	1 pack of 2 pieces, stopcock with male thread 1/4 inch	136
	1 pack of 2 pieces, stopcock with segment connector	138
	1 pack of 4 pieces, hose elbow 1/4 inch	139
	1 pack of 4 pieces, hose element with flushing hole 1/4 inch	141
	1 setting tool for clamping and releasing segments	145

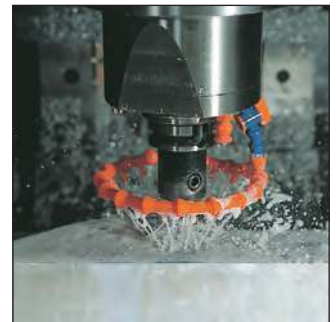
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19359 101  
1/2-inch set, 7 pieces.

19359 104-145  
1/2-inch individual elements

Set + single elements		1/2 inch	...
Set consisting of:		19359	...
	2 hose sections, each approx. 140 mm		
	1 each of round nozzle diameter 6/9 and 12 mm		
	1 each of threaded connector NPT 3/8 inch and 1/2 inch		101
	2 hose sections approx. 140 mm		104
	7.5 m hose in 59 sections of 140 mm each		106
	1 pack of 4 pieces, threaded connector NPT 3/8 inch		110
	1 pack of 4 pieces, threaded connector NPT 1/2 inch		111
	1 pack of 4 pieces, round nozzle diameter 6 mm		112
	1 pack of 4 pieces, round nozzle diameter 9 mm		113
	1 pack of 4 pieces, round nozzle diameter 12 mm		114
	1 pack of 2 pieces, flat nozzle 32 x 4.2 mm		115
	1 pack of 2 pieces, flat nozzle 63 x 2.8 mm		116
1 pack consisting of:			
	1 each of flat nozzle 18 x 2.0 and 18 x 3.2 mm		
	1 each of injector nozzle 7 x diameter 2.0 and 5 x diameter 3.2 mm		124
1 pack consisting of:			
	1 piece, each of 90° nozzle diameter 6/9 and 12 mm		
	1 piece, 90° shower nozzle		125
	1 pack of 2 pieces, Y branch		127
	1 pack of 2 pieces, reduction to 1/4 inch		129
	1 pack of 2 pieces, Y-junction with reduction to 1/4 inch		130
	1 pack of 4 pieces, extensions 95 mm with clamping ring		131
	1 ring system with 15 side nozzles		132
	1 pack of 2 pieces, check valve		135
	1 pack of 2 pieces, stopcock with male thread 1/2 inch		136
	1 pack of 2 pieces, stopcock with segment connector		138
	1 pack of 4 pieces, hose elbow 1/2 inch		139
	1 pack of 4 pieces, extension with clamping ring 1/2 inch		140
	1 pack of 4 pieces, hose elements with flushing hole 1/2 inch		141
	1 setting tool for clamping and releasing segments		145



19356

Cold air nozzle

Design

- Simple air connection (3–8 bar)
- Cold air escapes from the blue component (- 48°)
- Hot air escapes from the red component (+ 100°)

Applications

- Pinpoint cooling/heating.
- Efficient use of cooling where no lubrication or cooling lubricants are desired.

Scope of delivery:

- Air nozzle with magnetic plate
- Ball valve
- Connector for compressed air quick coupler 3/8 inch
- Silencer
- Jointed hose, 1/2 inch with round nozzle



19356

Jointed hose connector	Compressed air connection	19356	...
Inch	Inch		
1/2	3/8		101

19300

Cooling lubricants



Design

- Cooling and machining agent with high corrosion protection for the most demanding applications
- Semi-transparent emulsion
- Increased service life compared to conventional coolants
- Product adapted to HHW track oils 68 and 220 (demulsifying)
- Extremely gentle on the skin
- pH value approx. 9.3 at 5%

Applications

Foam resistant, ideal for CNC machines with high pressures. Suitable for all materials. Mixing ratio 1:25 (4%) for light machining, up to 1:10 (10%) for very heavy machining.

Note:

Non-hazardous material, free from chlorine, nitrite and formaldehyde. High corrosion protection even at low concentrations (from 3%). Refractometer value: 1.3. Water hazard class 2.

19300



Contents	19300	...
l		
10		101
25		102

19302

Track oils



Design

- Product adapted to HHW cooling lubricants so cannot be mixed with emulsion (demulsifying)
- No sticky residue forms on guideways and the service life of the emulsion is considerably extended

Applications

Demulsifying special oil for tracks and guides. Also suitable for use as hydraulic oil in accordance with DIN 51524/2 and gear oil.

19302



Content L	Kinematic viscosity	Density at 15°C	Flashpoint °C	19302	...
10	68	0.876	230		101
10	220	0.891	240		102

19304

Stainless-steel lubricating stick/cutting pastes



Applications

For heavy machining when thread cutting, broaching and reaming.

Application range:

High-alloyed carbon steels, chrome-nickel alloys, stainless steel, austenitic, ferritic chrome-nickel steels, titanium, manganese.

19304 101

Lubricating stick

Design

- Clings to blades

19304 101



19304 102-103

Cutting paste

Design

- In can

19304 102-103



Contents	19304	...
g		
Lubricating stick	300	101
Cutting paste	120	102
Cutting paste	750	103

19306

Universal cutting oils



Design

- Free of chlorine and mineral oils
- High-quality universal cutting oil based on natural raw materials
- Low tool wear
- Economical

Applications

For medium to heaviest-duty machining tasks.

Note:

Also suitable for minimum quantity lubrication (MMS).

19306 103-104

19306 101

19306 102



Contents	Contents	19306	...
ml	l		
Spray	300	-	101
Spray bottle	500	-	102
Canister	-	5	103
Canister	-	10	104



19308

Grinding concentrates

Design

- Synthetic grinding concentrate with high corrosion protection **for the most demanding applications**
- The emulsion is **transparent** and thus meets the requirements of **clear-view grinding**
- Increased service life compared to conventional coolants
- Extremely gentle on the skin
- High corrosion protection, even at low concentrations (from 2%)

Applications

For grinding a wide variety of materials. Mixing ratio 1:40 (2.5%). Also suitable as compressed water additive, as additional corrosion protection and as a stabilising agent.

Note:

Free of chlorine, nitrite and formaldehyde. Non-hazardous material. Refractometer value: 2.1. Water hazard class 2.

Contents		19308	...
l			
10			101
25			102



19360

Cooling lubricating concentrates



Design

- Emulsifying universal coolants and cutting agents

Applications

For all cutting, machining and deformation tasks.

Note:

Free of nitrites, silicones and phenols. Free of formaldehyde depot substances.

Contents		19360	...
l			
Canister	9.5		201
Drum	210		202



19366

Canister and drum mixer



Design

- One mixing device for all container sizes
- Highly efficient and easy to use
- It can be used to mix all water-soluble coolant concentrates (concentration range of 1–16%)
- Can be easily secured on container sizes of 5 kg, 10 kg, 25 kg, 60 kg and 200 kg using 5 different suction tube lengths and screw caps
- Works on the principle of steel pumps (Venturi principle) and does not require electrical power

Applications

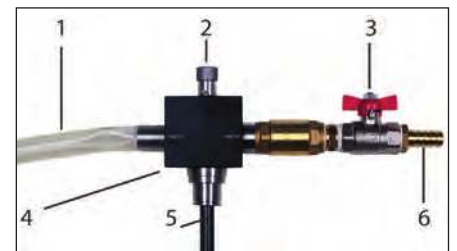
Exact dosage for economic use of emulsions. The mixture ratio can be adjusted precisely using the adjustment wheel. Concentration is determined by handheld refractometer, see art. no. 19370 101.

Scope of delivery:

- 5 suction pipes
- 2 screw cap adapters for canisters
- 1 screw cap for drums
- 1 transparent hose (length 1.5 m)

1. Emulsion outlet line
2. Concentration controller
3. Ball valve
4. Aluminium housing
5. Suction pipe (5 different lengths)
6. Mains water connection

		19366	...
			101



19370

Refractometer

Design

- With adjustable eyepiece

Applications

For fast and accurate determination of concentration of water-mixed cooling lubricants and many other solutions in various areas of application.

Measuring range		Accuracy		Version	19370	...
%		%				
Refractometer	0-32	0.2		in protective case		101
Prism cover plate	-	-		-		201



**19367 - 19368 Emulsion care carry case including test strips**

19367 101

**Design**

**Case contents:**

- Thermometer to determine sample temperature
- Plastic cups for taking samples
- Empty bottles for taking samples, 3 pieces
- Nitrite test strips, 100 pieces
- Nitrate test strips, 100 pieces
- Total water hardness test strips, 100 pieces

- pH test strips, 100 pieces
- Emulsion test log
- Plastic case with foam inserts and recess for accommodating a refractometer (not included in scope of delivery, see no. 19370 101).

**Applications**

For all measurements in accordance with TRGS 611.

19367 101



	Pack = Unit	19367	...	19368	...
Emulsion care case	-			101	
Nitrite test strips	100				101
Nitrate test strips	100				102
Total hardness test strips	100				103
pH test strips	100				104

19368 101

**Nitrite test strips**

**Design**

Pack = 100 units.

19368 101



19368 102

**Nitrate test strips**

**Design**

Pack = 100 units.

19368 102



19368 103

**Total hardness test strips**

**Design**

Pack = 100 units.

19368 103



19368 104

**pH test strips**

**Design**

Pack = 100 units.

19368 104



**33970 pH tester for liquids TESTO 206-pH1**



**Design**

- Combination of °C and pH
- Fast, accurate, simple
- Reliable thanks to automatic final value detection
- Robust, insensitive to contamination

**Applications**

Changes in the coolant quality can be detected by the self-monitoring function and corrected as necessary. Among other things, the pH value must be recorded here. Depending on the manufacturer's specifications, the pH value of the lubricant should lie between 7.7 and 9.2 pH. This measurement must be made when preparing the concentrate, and once weekly for emulsions ready for use. Strongly decreasing pH value runs the risk of corrosion, poor biostability combined with unsatisfactory downtimes (additional costs), unpleasant odours and health hazards. Measures must be taken in the event of a decrease in pH of 0.2 pH, and the coolant should be changed in the event of a decrease of 0.5 pH.

33970 101

**Device set TESTO 206-pH1**

**Scope of delivery:**

- One-handed pH/°C measuring instrument
- pH1 probe head for liquid media
- Storage cap with gel
- Protective cover TopSafe
- Belt/wall bracket

33970 102

**Starter set TESTO 206-pH1**

**Scope of delivery:**

- One-handed pH/°C measuring instrument
- pH1 probe head for liquid media
- Storage cap with gel
- Calibration dosage bottles 250 ml pH 4+7
- Protective cover TopSafe
- Belt/wall bracket
- Aluminium case

33970



Technical data:	TESTO 206-pH1	
Measurement sensor:	pH electrode	NTC
Measuring range:	0 to 14 pH	0 to 60 °C (for short periods up to +80 °C, max. 5 min.)
Accuracy +/- 1 digit:	+/- 0.02 pH	+/- 0.4 °C
Resolution:	0.01 pH	0.1 °C
Compensation:	Automatic temperature compensation	Automatic temperature compensation
Measuring rate:	2 measurements per second	2 measurements per second
Dimensions:	197 x 33 x 20 mm	197 x 33 x 20 mm

Type	33970	...
Instrument set TESTO 206-pH1		101
Starter set TESTO 206-pH1		102





19371

Belt skimmer and spare belts

Design

- Easy attachment with magnetic base and adjustable in 6 steps
- Universally adjustable with two joints
- The belt remains under tension in any position in hard-to-reach places thanks to the fixed bracket! You can even secure the device at an angle in hard-to-reach places, such as under a chip conveyor

Advantages:

- Longer service life for cooling lubricants
- Long replacement intervals
- Significantly lower operating costs
- Non-critical low-volt voltage of 3–12 volts
- Significantly reduces strain on the machine operator caused by smells and steam

Applications

For the maintenance of cooling lubricants in machine tools, machining centres, CNC lathes, etc.

Technical data:	
Electrical connection:	230 V, 50 Hz, AC
Connecting cable:	Via plug-in power supply (220 V) on 3–12 V
Immersion depth:	Either 250 mm or 500 mm
Drive:	Belt speed adjustable in 6 levels
Options:	Timer deliverable on request
Output:	Oil leakage performance 1–4 litres/hour
Drain:	Via hose connection

	Belt skimmer	Replacement skimmer belts
Immersion depth mm	19371	19371 ...
250		101 201
500		102 202



Fig.: Straight



Fig.: Angled

19378

Thread lubricant

Design

- In handy can

Use

Greasing threads to improve sliding properties. Prevents threads from cracking.

Contents g	19378	...
600		101



19378

19379

Thread cutting agent

Design

- Cutting agent with mineral oil base
- Free from chlorine, silicone, PCBs and solvents

19379 101

Cutting oil Akafil

Applications

Excellent performance especially for manual thread cutting, thread forming and reaming.

Applications

For machining steel and stainless steel.

19379 102

High-performance cutting grease Akawax

Applications

Indispensable, if liquid oils cannot be used for lubrication, particularly for overhead thread cutting and sawing. No spilling, no dripping.

Type	Contents ml	Contents g	19379	...
Akafil	210	-		101
Akawax	-	350		102



19379 101



19379 102

19382

Drilling and cutting oil WD-40 Specialist®



Design

- Reduces wear and friction during machining tasks
- Extends the life of the cutting tools and drills
- Smart Straw™ spray system for full-surface and single-point spraying
- Foams when sprayed for ideal adhesion to the tool

Applications

Suitable for all metals.

Contents ml	19382	...
400		101



19382

21495 - 21496 Cutting lubricants

**TAPMATIC**

**Design**

- Ferrofluid and Alufluid cutting fluids cool and lubricate at the same time
- The cutting fluids are free of sulphur and chlorine and comply with the EU TRGS provisions
- They are non-toxic as defined by the Swiss Chemicals Ordinance (ChemO)
- VOC free

**Advantages:**

- No built-up edge
- Longer service life of the tools
- Better surface quality

21495

**Ferrofluid**

**Applications**

Cutting fluid for steel.  
Prevents the formation of a built-up edge.

21496

**Alufluid**

**Applications**

Cutting fluid for aluminium, aluminium alloys, copper, brass, bronze, nickel silver and much more.

21495



21496



Containers litres	21495	...	21496	...
0.5		201		201
5.0		202		202

19390 Magnetic chip lifter



**Applications**

1 tool, 2 uses:

1. Remove chipse
2. Lift small parts

A magnet moves up and down within a stainless-steel round bar. The strong magnet attracts metal chips. Pull the knob and the chips fall off.



19390

Length mm	19390	...
400		101

19397 Swarf hook

**Design**

- Ergonomic handle made using 2-component injection moulding technology
- Special finger recess for secure handling and more tractive force
- Fibreglass-reinforced shield
- Burnished shank
- Rounded tip to prevent injuries
- Downwards-angled hook for optimum access



Incl. chip slide for removing small chips

**NEW**



19397

Total length Approx. mm	Hook length mm	19397	...
420	300		201
620	500		202

