



AMF-CLEANER

AND YOUR MACHINE CLEANS ITSELF

AMF-Cleaners are tools for cleaning workpieces, tools and the interior of CNC machines. They are preferably clamped in Weldon chucks and mounted in the machine spindle of a CNC machine.

AMF Cleaners use through spindle coolant or compressed air. AMF Cleaners in Stick design are available in lengths of 30, 100 and 180mm and are ideally suitable for cleaning swarf from workpieces, vices and fixtures prior to unloading the workpiece and before the next workpiece is loaded. The spindle can be static or a slow rotation may be used to improve cleaning operation.

AMF Cleaners in the Ball design are available with horizontal or vertical connection to the machine spindle and are designed for cleaning the entire interior working area of the machine tool. The user selects which nozzles to open which controls the direction and pressure of the jet. Moving and rotating the spindle under constant flow of coolant achieves an excellent and systematic cleaning of the machine interior.

Our AMF-Cleaners are characterised by low acquisition costs and a long service life - their time saving will impress you.

Your benefits at a glance:

- > repeatable, systematic and thorough cleaning
- > no aerosol pollution harmful to the health of the machine operator
- > reduction of the cleaning time
- > preserves the machine guides
- > no risk of injury due to swarf



No. 1500CC

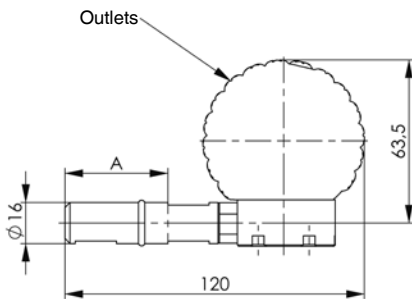
AMF-Cleaner

in Clean Case.
Cleaning tools for attachment to the machine spindle, fits 16 mm
Weldon holders.

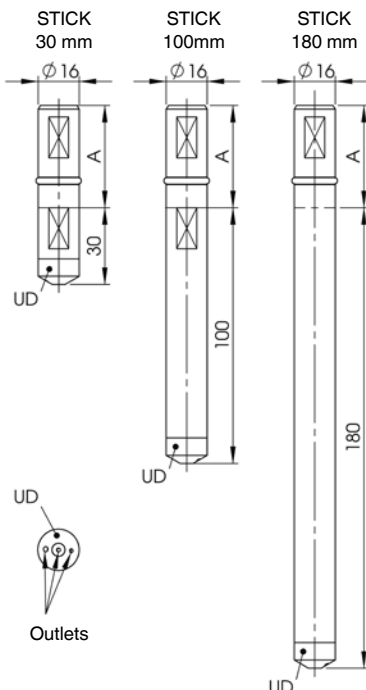
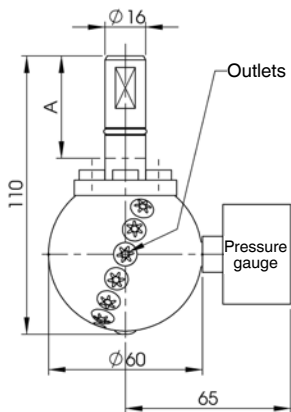
Components:

- 1 AMF Cleaner, Ball Horizontal
 - 1 AMF Cleaner, Ball Vertical Control
 - 1 AMF Cleaner, Stick 30 mm
 - 1 AMF Cleaner, Stick 100 mm
 - 1 AMF Cleaner, Stick 180 mm
 - 3 multi-purpose nozzles
 - 1 pressure gauge
 - 1 adapter
 - 1 ball joint
 - 4 replacement lock screws
 - 1 hexagon screwdriver
- Operating Manual

BALL HORIZONTAL



BALL VERTICAL CONTROL



Order no.	Insertion depth A [mm]	Dimensions of case LxWxH	Weight [g]
17558	40	270 x 230 x 70	1637

Application:

BALL:

The cleaning range of the AMF Cleaner is 360° and can be shaped through the number of opened outlets. The horizontal version of the tool with side connection even permits cleaning of the spindle tip. The control version allows connection of a pressure gauge to monitor the condition of the pump, filter and entire supply line.

STICK:

This tool is essential for automation of a CNC machine.

It gives the machine the ability to mechanically clean workpieces and clamping fixtures. The effect of the AMF Cleaner is adapted to the local conditions by the selective travel to different positions with a rotating tool. Due to its shape and the different lengths, it is especially well-suited for cleaning holes, pockets, undercuts or other contours. Thanks to 3 different universal nozzles (UN), the intensity of the cleaning jet can be influenced as well.

The adapters permit 2 cleaners to be connected together and extended in order to penetrate into lower-lying working areas.

The ball joint also enables an oblique nozzle position, allowing the jet angle to be controlled. The AMF Cleaner cleans at high-speed and can be integrated into the automation cycle quickly and easily by means of a short subroutine.

Features:

BALL:

Working range	up to 360°
KSS pressure range	5 to 120 bar
Outlets (horizontal)	15
Outlets (vertical)	14
Minimum speed	5 rpm
Maximum speed	100 rpm
Working medium	Cooling lubricant
Weight, horizontal vers.	409 g
Weight, vertical vers.	331 g

STICK:

KSS pressure range	5 to 120 bar
Compressed-air pressure range	5 to 10 bar
Outlets	3
Minimum speed	30 rpm
Maximum speed	400 rpm
Working medium	Cooling lubricant, Compressed air
Weight, vers. L=30	50 g
Weight, vers. L=100	133 g
Weight, vers. L=180	208 g

Advantage:

BALL:

- Repeatable, systematic and thorough cleaning of the inside of the machine
- No aerosol pollution harmful to the health of the machine operator
- Reduction of cleaning time

STICK:

- Repeatable, systematic and thorough cleaning of the workpiece or clamping fixture
- No aerosol pollution harmful to the health of the machine operator
- Reduction of cleaning time



Subject to technical alterations.

No. 1510CBVC

AMF-Cleaner, Ball Vertical Control design

Cleaning tool for attachment to the machine spindle fits 16 mm Weldon holders.



Order no.	D1 [mm]	D2 [mm]	L1 [mm]	Insertion depth A [mm]	max. r.p.m. [1/min]	Min. KSS pressure [bar]	Max. KSS pressure [bar]	Weight [g]
17590	16	60	110	40	100	5	120	331

Application:

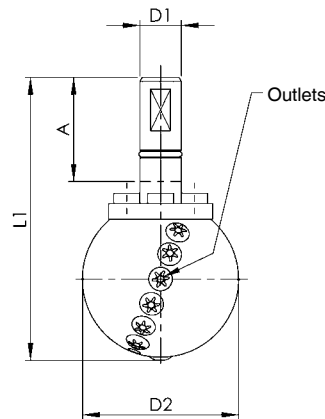
The cleaning range of the AMF Cleaner is 360° and can be shaped through the number of opened outlets. Through the optional installation of a pressure gauge, the status of the pump, filter and entire supply line can be checked.

Features:

Working range up to 360°
 Outlets 14
 Working medium Cooling lubricant

Advantage:

- Repeatable, systematic and thorough cleaning of the inside of the machine
- No aerosol pollution harmful to the health of the machine operator
- Reduction of cleaning time



No. 1510CBH

AMF-Cleaner, Ball Horizontal design

Cleaning tool for attachment to the machine spindle fits 16 mm Weldon holders.



Order no.	D1 [mm]	L1 [mm]	L2 [mm]	Insertion depth A [mm]	max. r.p.m. [1/min]	Min. KSS pressure [bar]	Max. KSS pressure [bar]	Weight [g]
17582	16	120	64	40	100	5	120	409

Application:

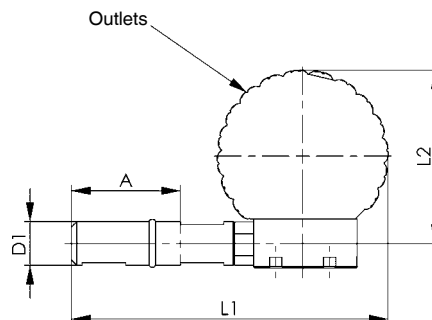
The cleaning range of the AMF Cleaner is 360° and can be shaped through the number of opened outlets. This version of the tool with side connection even permits cleaning of the spindle tip.

Features:

Working range up to 360°
 Outlets 15
 Working medium Cooling lubricant

Advantage:

- Repeatable, systematic and thorough cleaning of the inside of the machine
- No aerosol pollution harmful to the health of the machine operator
- Reduction of cleaning time



No. 1510CZ

Pressure gauge

Accessory for AMF Cleaner, ball design

Order no.	D1 [mm]	D2 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	max. r.p.m. [1/min]	Min. KSS pressure [bar]	Max. KSS pressure [bar]	Weight [g]
17715	44	G1/8	26	34	46	14	100	5	120	67

Application:

The pressure gauge is screwed into the AMF Cleaner, Ball Vertical Control (CBVC) design, and serves to control the cooling lubricant pressure actually present. This is helpful for checking the necessary supply pressure of the AMF Cleaner, and the cooling lubricant pressure of the machine tool that is actually present can also be checked with this measuring tool. Based on this, conclusions can be made about the condition of the pump, filter and supply line.

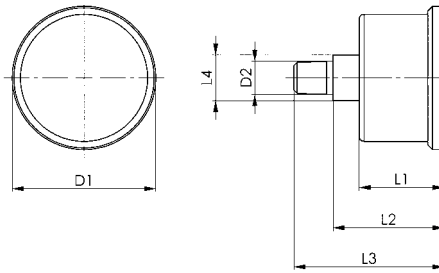
Features:

Working medium

Cooling lubricant

Advantage:

- Possibility to check the KSS pressure of the machine tool
- Pressure necessary for AMF Cleaner can be checked



Subject to technical alterations.

No. 1520CS

AMF-Cleaner, stick design

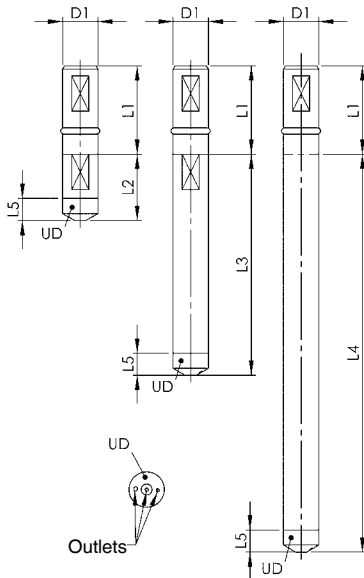
Cleaning tool for attachment to the machine spindle fits 16 mm Weldon holders.

Designs:

Order No. 17608: Short

Order No. 17616: Standard

Order No. 17624: Long



Order no.	Pipe	D1 [mm]	Insertion depth L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Weight [g]
17608	30	16	40	30	-	-	50
17616	100	16	40	-	100	-	133
17624	180	16	40	-	-	180	208

Application:

This tool is essential for automation of a CNC machine. It gives the machine the ability to mechanically clean workpieces and clamping fixtures. The effect of the AMF Cleaner is adapted to the local conditions by the selective travel to different positions with a rotating tool. Due to its shape and the different lengths, it is especially suitable for cleaning holes, pockets, undercuts or other contours. Through selection from 3 different universal nozzles (UN), you can influence the intensity of the cleaning jet. The AMF Cleaner cleans at high-speed and can be integrated into the automation cycle quickly and easily by means of a short subroutine.

Features:

KSS pressure range	5 to 120 bar
Compressed-air pressure range	5 to 10 bar
Outlets	3
Minimum speed	30 rpm
Maximum speed	400 rpm
Working medium	Cooling lubricant, compressed air

Put your cleaner together individually. The pipe and universal nozzle are ordered separately.

Advantage:

- Repeatable, systematic and thorough cleaning of the workpiece or clamping fixture
- No aerosol pollution harmful to the health of the machine operator
- Reduction of cleaning time

No. 1520CZ

AMF-Cleaner, universal nozzles

AMF Cleaner, fits stick design.

Designs:

Order No. 17632: Low flow

Order No. 17640: Standard

Order No. 17657: High flow



Order no.	Universal nozzle	D1 [mm]	L5 [mm]	Weight [g]
17632	UD40	16	10	14
17640	UD45	16	10	14
17657	UD50	16	10	14

No. 1520CZ

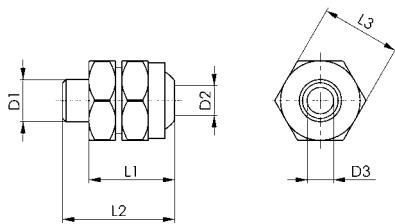
Ball joint and adapter

Accessory for AMF Cleaner, stick design
 Order No. 17699: ball joint
 Order No. 17673: adapter

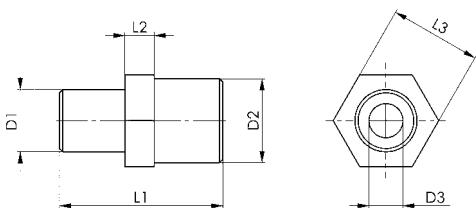
Order no.	max. r.p.m. [1/min]	Min. KSS pressure [bar]	Max. KSS pressure [bar]	Min. air pressure [bar]	Min. air pressure [bar]	Weight [g]
17699	60	5	120	5	10	66
17673	400	5	120	5	10	13



Order no. 17699: ball joint



Order no. 17673: adapter



Application:

Adapter:

Adapters are used to connect 2 or more AMF Cleaners to each other. The adapter is simply screwed on instead of the universal nozzle of an AMF Cleaner. The length of the cleaning tool can thus be varied.

Ball joint:

Ball joints are used to connect movably 2 or more AMF Cleaners to each other. The universal nozzle attached to the front or an additional AMF Cleaner can be deflected up to 30 degrees through the ball joint.

Order information: To deflect an additional AMF Cleaner, the adapter is needed in addition to the ball joint.

Features:

Working medium

Cooling lubricant, compressed air

Advantage:

- Modular design for individual applications
- Cost savings through simple expansion possibilities

Dimensions:

Order no.	D1 [mm]	D2 [mm]	D3 [mm]	L1 [mm]	L2 [mm]	L3 [mm]
17699	G1/8	G1/4	8	26	34	24
17673	G1/8	G1/4	5,2	25	4,5	14