



ABISOFIX

ABISOBRUSH

ABISOFIX

How is an ABISOFIX constructed?



plexi-glass safety guard and casing cap

stripping head

drive

What can an ABISOFIX device do?

- **Stripping of:**
 - enameled copper wire
 - braided wire
 - cables
 - flat copper wire
- **Twisting of:**
 - stranded wire
- **Twisting of:**
 - a pair of wires
- **Removal of:**
 - oxidized surface layers
 - varnish
 - solder

What is the size of an ABISOFIX device?

- 175mm long
- 45mm in diameter
- 450g weight



How does an ABISOFIX operate?

As the rotary speed of an ABISOFIX is increased, three metal blades approach the wire. Due to a smooth start mechanism, the blades do not close jerkily but nestle gently against the material to be stripped. Only then the necessary stripping pressure is applied. Due to an infinitely adjustable rotary speed the blades may close to any specific required diameter. For example a thin layer of enamel can be removed from a magnet wire without damaging the copper. The result is a neatly stripped copper wire. Turn off the machine and the ABISOFIX will stop automatically ready for the next job. According to the combination of materials to be stripped it is possible to preset the correct working speed at the power pack. With all additional tools, the working method is identical.

Hint

ABISOFIX



Stripping Head



We offer both whole ABISOFIX devices, as well as just stripping heads. The article descriptions, which can be used to order, are highlighted with colored background. All stripping heads match to both ABISOFIX drives (AMO and ADBBW).

Catalog



Standard Stripping Head	ABISOFIX	Stripping Head	Measures: Ø
Stripping of enamelled and braided wires. Mounted sleeveings can be stripped as well.	A1 A3 A5	MK1 MK3 MK5	0.2 - 0.8mm 0.6 - 2.0mm 1.2 - 4.5mm



Radial and Axial Length Limiter	ABISOFIX	Stripping Head	Measures: Ø
Stripping of enamelled and braided wires, removal of oxidation layers. By means of the length limiter "L" the axial stripping length can be adjusted from 3 to 40 mm. For longer stripping areas the length stop can be removed. The radial blade limiting "M" can be adjusted to a special wire gauge. There will be no damage to the wire during full speed operation and higher cycles can be achieved.	A1LM A3LM A5LM	MK1LM MK3LM MK5LM	0.2 - 0.8mm 0.6 - 2.0mm 1.2 - 4.5mm

Special Stripping Head	ABISOFIX	Stripping Head	Measures: Ø
In special applications, for example with electronics, it may be necessary to strip very closely to a component (distance 0).	ASH ASHM AS	MKSH MKSHM MKS	0.4 - 3.0mm 0.4 - 3.0mm 0.4 - 3.0mm



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Flat Set Blades	ABISOFIX	Stripping Head	Measures: Ø
Stripping of cables and wires with a larger wall thickness. Only available with strip length stop and blade limiting.	AFML3 AFML5	MK3FLM MK5FLM	0.6 - 4.0mm 2.0 - 5.0mm



Small Stripping Head	ABISOFIX	Stripping Head	Measures: Ø
Stripping and cleaning of wiring pins of varnish or solder metal. Fixes the measurement for armament of circuit boards. Minimum distance of pins 5 mm (conditionally 4 mm). Stripping length 0.5 to 30 mm. The pin diameter is slightly adjustable (calibrating).	AK1 AK2 AK3 AK4 AK5 AK6 AK7 AK8	KMK1 KMK2 KMK3 KMK4 KMK5 KMK6 KMK7 KMK8	0.5mm 0.6mm 0.7mm 0.8mm 0.9mm 1.0mm 1.1mm 1.2mm



Hardened Milling Tool	ABISOFIX	Stripping Head	Measures: Ø
Stripping of rectangular (strip) wire up to 18mm. Wider materials can be stripped by staggered arrangement. Useful for general milling jobs such as removal of copper flakes from laminations in a stator.	AF	MKF	up to 18mm



Twisting Head	ABISOFIX	Stripping Head	Measures: Cross Section
Twisting of stranded wires in order to convert them to a solid wire for inserting into terminals, sockets etc.	AV3 AV5	MKV3 MKV5	0.2 - 2.5mm ² 2.5 - 6.0mm ²



Twist Hook	ABISOFIX	Stripping Head	Measures: Ø
For twisting of 2 or more wires by means of a wire loop. If required the twisted wires can be stripped jointly by means of a stripping head.	AVH	VH	up to 0.6mm

Services

- **Adjusting Stripping Heads:** You send us a sample wire or tell us the desired wire diameter and stripping length. We adjust all ordered stripping heads to your requirements.
- **Stripping Head Maintenance:** You send us your used stripping heads and we sharpen used blades or exchange broken blades. Please be aware that hardened blades lose their coating in the sharpening process.
- **Drive Maintenance:** You send us your used ABISOFIX drives and we maintain and repair them.

ABISOFIX Accessories



Power Pack	Item:	Input:	Output:
A specially designed power pack for the ABISOFIX stripper with infinitely variable speed control, constant voltage, smooth start-up and electronic overload protection.	NEB42B NEB42B/USA	230V, 50Hz 115V, 60Hz	10 - 40V 10 - 40V



Drive	Item:	Data:
The ABISOFIX drive can be supplied drive alone. The design "ADBW" has a pierced shaft. This way the wire can be passed through the machine. Therefore it is possible to achieve longer stripping or tapping areas at required places.	AMO ADBW	drive alone drive with a bore of 2.8 mm Ø



Table Holder	Item:
The ABISOFIX wire stripper can be fixed to a table-top. Switching on and off is applied by foot-switch. The drive is still brokened precisely. This allows short cycles with batch production.	ATE



Spring Balancer	Item:
Using both spring bow and spring balancer, an ABISOFIX device can be mounted at a workstation such that it both hangs close at hand and it does not occupy any space on the working table. Hence the device cannot fall down as well.	A8610

Spring Bow	Item:
Using both spring bow and spring balancer, an ABISOFIX device can be mounted at a workstation such that it both hangs close at hand and it does not occupy any space on the working table. Hence the device cannot fall down as well.	A8600



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Plexiglass Safety Guard	Item:
For safety reasons the ABISOFIX must be operated only with a safety guard fitted. Generally it is supplied with the unit. But it is also available as spare part.	SHP



Spare Blades	Item:
Spare blades are available for all types. After wear and tear we recommend to send in the complete stripping head or the whole unit for overhauling. Blunt knives can be sharpened. The ordering sign # must be replaced by the corresponding ABISOFIX ordering number.	MES.# e.g. MES.A1

Impressum



ABISOFIX

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What can an ABISOBRUSH device do?

Stripping enamelled round wires and flat copper with a diameter/thickness between 0,15mm and 6mm.

How do ABISOBRUSH devices differ?

After three decisions, you will know what device suits to your needs:

- Device Type: If the ABISOBRUSH needs to be carried around or held in a special position choose the hand held device. The largest brush size is only available for stationary machines however.
- Brushes: Choose the brushes based on the diameter of the wires you want to strip.
- Exhaust Adapter: Choose the exhaust adapter if you want to vacuum off the stripping remains.

Device Type	Hand Held Device		Stationary Machine
			
Wire Diameter	0.15mm - 3mm	1mm - 6mm	1mm - 8mm
Brush Diameter	30mm	35mm	40mm
			
Brush Rotation	counter rotation pulls the wire	same rotation no force on the wire	same rotation no force on the wire
Exhaust Adapter	with (SA)		without

How does an ABISOBRUSH work?

All ABISOBRUSH devices strip the wire between two rotating brushes. The brushes' distance can be infinitely adjusted to the wire thickness by turning a setscrew. The HQ35P, ST35 or ST40 are designed to strip thick wire. In this case no force should be applied on the wire and hence both brushes rotate the same way in all those devices. However the HQ30's brushes counter rotate and pull the wire into the stripping device. By using different types of brushes the stripping quality can be adjusted the wire diameter and the isolation material.

How do you strip a round copper wire quickly?

Push the wire in the ABISOBRUSH, turn the wire by 90 degree and pull it out again. Done. The wire can also be stripped in the between by inserting the wire laterally.

Catalog



HQ30 / HQ30-SA	Brushes:	Wire Thickness:
Hand held stripping device for wires (0,15 - 3mm diameter), 230 V (115 V) 50 Hz, Weight 2.1kg, Brushes 30mm	SRB30.10 SRB30.15 SRB30.20 SRB30.25 SRB30.30	0.15 - 0.60mm 0.40 - 1.00mm 0.60 - 1.50mm 0.80 - 2.00mm 1.00 - 3.00mm



HQ35P / HQ35P-SA	Brushes:	Wire Thickness:
Hand held stripping device for wires (1.5 - 6mm diameter) and flat copper (1 - 6mm thickness), 230 V (115 V) 50 Hz, Weight 2.4kg, Bürsten 35mm	SRB35.10 SRB35.15 SRB35.20 SRB35.25 SRB35.30	1.00 - 2.00mm 1.50 - 2.50mm 2.00 - 3.00mm 2.50 - 4.00mm 3.00 - 6.00mm



ST30.L / ST30.L-SA	Brushes:	Wire Thickness:
Stationary stripping device for wires (0.15 - 3mm diameter), 230 V (115 V) 50 Hz, Weight 11.5kg, Brushes 30mm	SRB30.10 SRB30.15 SRB30.20 SRB30.25 SRB30.30	0.15 - 0.60mm 0.40 - 1.00mm 0.60 - 1.50mm 0.80 - 2.00mm 1.00 - 3.00mm



ST35.L / ST35.L-SA	Brushes:	Wire Thickness:
Stationary stripping device for wires (1.5 - 6mm diameter) and flat copper (1 - 6mm thickness), 230 V (115 V) 50 Hz, Weight 11.5kg, Brushes 35mm	SRB35.10 SRB35.15 SRB35.20 SRB35.25 SRB35.30	1.00 - 2.00mm 1.50 - 2.50mm 2.00 - 3.00mm 2.50 - 4.00mm 3.00 - 6.00mm



ST40.L / ST40.L-SA / ST40.D / ST40.D-SA
Stationary stripping device for wires (1.5 - 8mm diameter) and flat copper up to 8 x 20mm, ST40.D 230/400 V rotary current 50 Hz, ST40.L 230 V alternating current 50 Hz, Weight 11.5kg, Brushes 40mm

Brushes:
SRB40.10
SRB40.15
SRB40.20
SRB40.25
SRB40.30

Wire Thickness:
1.00 - 2.00mm
1.50 - 2.50mm
2.00 - 3.00mm
2.50 - 4.00mm
3.00 - 8.00mm

- All ABISOFIX devices can be equipped with an exhaust adapter. When ordering an ABISOFIX with the exhaust feature append "-SA" to the ordering name. For example "ST40.L-SA" is stationary stripping device with 40mm brushes, 230V alternating current and exhaust adapter.
- The recommended wire dimensions are supposed to be benchmark values. Large brushes remove more surface material. Thin brushes lead to a cleaner surface. Other brush sizes can be provided on request.

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