

ALFRA

DEBURRING TECHNOLOGY

► BEVEL MILLING AND DEBURRING DEVICES
FOR THE UNIVERSAL USE





ALFRA BEVEL MILLING AND DEBURRING DEVICES – Overview

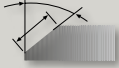


Made in Germany by ALFRA



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Type	KFV	KFH 150
Prod.-No.	25260	25100
Prism support	–	L = 150 mm/W = 20/40 mm
End mill Ø	Depending on application 30°/45° or straight Ø 6 mm or 8 mm	solid carbide end mills acc. to DIN, Ø 8 mm
Max. bevel width ▶ in multiple work steps	1 - 3 mm 	1 - 5 mm, depending on material, with fine adjustment
Bevel angle	45° and radii	45°
High-performance motor	■	■
Motor power	500 Watts	1050 Watts
Stepless speed control	11000 - 25000 min ⁻¹ with softstart	8000 – 25000 min ⁻¹
Full wave electronics	■	■
Collet Ø	43 mm	43 mm
Voltage	230 V, 50 – 60 Hz + 110 V, 50 – 60 Hz	230 V, 50 – 60 Hz + 110 V, 50 – 60 Hz
Weight	1.8 kg	3.5 kg
Dimensions (L x W x H)	260 x 190 x 150 mm	340 x 150 x 110 mm
Cable length	3.0 m	3.0 m
	 ■ 230V - Prod.-No. 25193 ■ 110V - Prod.-No. 25193.110	 ■ 230V - Prod.-No. 25191 ■ 110V - Prod.-No. 25191.110



ALFRA BEVEL MILLING AND DEBURRING DEVICES – Overview

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KFT 250

25110

L = 250 mm/W = 40 mm

solid carbide end mills
acc. to DIN, Ø 8 mm

1-5 mm, depending on material

45°



1050 Watts

8000 – 25000 min⁻¹



43 mm

230 V, 50 – 60 Hz
+ 110 V, 50 – 60 Hz

5.0 kg

360 x 250 x 110 mm

3.0 m



■ 230V - Prod.-No. 25191
■ 110V - Prod.-No. 25191.110

KFH 250

25130

L = 250 mm/W = 70 mm

solid carbide end mills
acc. to DIN, Ø 12 mm

14 mm St. 37
6.5 mm stainless steel

continuously traversable by 30 – 45° – 30°
right and left for 60° bevel mills.
As well for radii R = 3.0 4.0 and 5.0
by means of radius solid carbide end mills.



1800 Watts

2500 – 23500 min⁻¹



63 mm

230 V, 50 – 60 Hz
+ 110 V, 50 – 60 Hz

12.8 kg

480 x 315 x 145 mm

3.0 m



■ 230V - Prod.-No. 25192
■ 110V - Prod.-No. 25192.110

KFT 500

25140

L = 500 mm/W = 70 mm

solid carbide end mills
acc. to DIN, Ø 12 mm

1.5 - 14 mm

45°



1800 Watts

2500 – 23500 min⁻¹



63 mm

230 V, 50 – 60 Hz
+ 110 V, 50 – 60 Hz

18 kg

450 x 500 x 160 mm

3.0 m



■ 230V - Prod.-No. 25192
■ 110V - Prod.-No. 25192.110



ALFRA BEVEL MILLING AND DEBURRING DEVICES – Overview


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Type	KFK 5	SKF 63-15
Prod.-No.	25200	25010
Prism support	–	Guide with rollers
		240 x 80 mm / 220 x 75 mm
End mill Ø	Indexable insert holder	Milling plates
Max. bevel width 	45°: Steel 0 - 5 mm, Alu 0 - 8 mm 30°: Steel 0 - 4 mm, Alu 0 - 6 mm	15 mm max
▶ in multiple work steps		
Bevel angle	45° (optional 30°) Radii R = 2.5	15° - 20° - 30° - 45° - 60° adjustable
High-performance motor	■	■
Motor power	1300 Watts	1100 Watts
Stepless speed control	6000 - 10000 min ⁻¹ with soft start	2870 min ⁻¹
Full wave electronics	■ With thermal and overload protection	■ With thermal and overload protection
Right/ left movement		
Collet Ø	–	–
Voltage	230 V, 50 – 60 Hz + 110 V, 50 – 60 Hz	230 V, 50 Hz + 110 V, 50 or 60 Hz
Weight	4.2 kg	21.0 kg
Dimensions (L x W x H)	L = 450 mm	440 x 200 x 280 mm
Cable length	3.0 m	3.0 m



B

ALFRA BEVEL MILLING AND DEBURRING DEVICES – Overview

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KSL

25250

L = 380 mm/W = 170 mm

Ø 180 x 22 mm

Flapped discs

0 - 2 mm

45°



550 Watts

2860 min-1

-

-

230 V, 50 – 60 Hz

+ 110 V, 50 or 60 Hz

29 kg

460 x 380 x 320 mm

3.0 m



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SKS 15 Auto

25950

shear knife: Ø 100mm

0,5 - 15 mm

15° - 50°

1500 Watts

2800 min-1



220/380V, 50 – 60 Hz

88 kg

450x 400 x 820 mm

-

B



ALFRA *Deburring Device*

4 applications – 1 device

KFV



Free-hand prism



Stationary prism



Stationary contours



Free-hand contours

Adjustment of bevel width



With thermal and overload protection

On/off switch

ALFRA DEBURRING DEVICE – KFV

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Drive motor (with clamping flange \varnothing 43 mm) 500 Watts, speed control 11000 - 25000 rpm, quick-change fixture to hold the attachments.

- Contour milling fixture with table 72 x 64 mm
- Table milling fixture with support plate \varnothing 120 mm
- Tool-less adjustment of bevel height.
- Handy and powerful.
- For construction steels, stainless steels, aluminium and other materials.
- Also for radii



Initial bores from \varnothing 20 mm.



Technical data:

Bevel angle:	45° (optional 30°)
Bevel width 45°:	1 - 3 mm infinitely variable
Bevel width 30°:	1 - 3 mm infinitely variable
Radius:	R = 1.0 - 1.5 - 2.0
Motor voltage:	230 V 50-60Hz; 110V 50-60Hz
Power:	500 W
Speed:	11000 - 25000 min ⁻¹ with soft start with thermal and overload protection manual
Feed:	manual
Weight:	1.8 kg

Scope of Supply:

- KFV deburring and bevelling device, drive motor with clamping flange \varnothing 43 mm
- Quick-change fixture to hold the attachments
- Contour milling fixture with table, 72 x 64 mm
- Table milling fixture with support plate, \varnothing 120 mm
- Prism milling fixture with guide rails, length 150 mm
- Clamping shank for vice
- Collet, 6 mm (mounted), Collet, 8 mm (enclosed)
- 1 Set Operating Tools
- Transport case
- Guide stop for outer edges

Prod.-No.

Deburring Device KFV, complete	230V 50-60Hz	25260
Deburring Device KFV, complete	110V 50-60Hz	25260.110

B



ALFRA *Deburring Device*

KFH 150



ALFRA DEBURRING DEVICES – KFH 150

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With the machine towards the workpiece, where a machined deburring is too time-consuming.

Manually operated device for the deburring (45°) of larger workpieces, profiles, girders, sheet metals, with 90° support.

- Manually operated, for 45° bevels.
- Optimal guiding and safe operation.
- For customary solid carbide end mills Ø 8 mm.



Full wave electronics



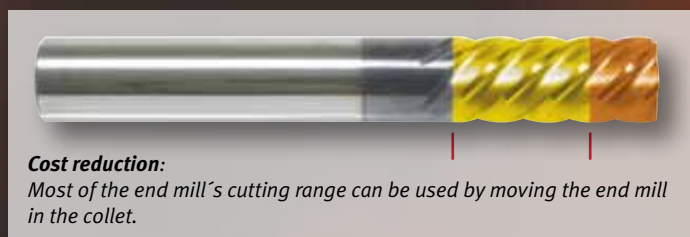
Technical data:

Prism support 45°:	L = 150 mm W = 20/40 mm
End mill:	solid carbide end mills acc. to DIN, Ø 8 mm
Max. bevel width:	1 - 5 mm, depending on material with fine adjustment
High Performance Motor:	with full wave electronics
Motor voltage:	230 V 50-60Hz; 110V 50-60Hz
Motor power:	1050 W
Electronics:	8000 – 25000 min ⁻¹
Collet Ø:	43 mm
Weight:	3.5 kg

Scope of Supply:

- Deburring Device KFH 150
- 1 set guide rails
- 1 collet Ø 8 mm and clamping nut
- 1 operation manual

Premium solid carbide end mill on request!!!



Cost reduction:

Most of the end mill's cutting range can be used by moving the end mill in the collet.

Prod.-No.

Deburring Device KFH 150	230V 50-60Hz	25100
Deburring Device KFH 150	110V 50-60Hz	25100.110
Deburring Device KFH 150 (without motor)		25109

B



ALFRA *Deburring Device*

KFT 250



High Performance Motor
with dual bearing
milling spindle

Clamping lever
for fast adjustment

Fine adjustment of
bevel depth/width

Guide rails
of high-strength
special steel

Chip collecting con-
tainer

Rubber feet for
quiet running and high
stability

ALFRA DEBURRING DEVICE – KFT 250 (stationary model)

Made in Germany by ALFRA



Simple and inexpensive Deburring Device for light to medium operation demands.

For the realisation of unique outer bevel surfaces, without secondary burr.



Technical data:

Deburring range: Bevel angle 45°
Prism support position I: Material thickness from 4.5 mm
Position II: Material thickness from 1.0 mm
Prism support: L = 250 mm
Guide rails: W = 40 mm
Max. bevel width: 7 mm, depending on material. Also for stainless steel with appropriate end mill, speed control and number of cutting passes (coat edges with cutting oil).
Weight: 5.0 kg
High performance drive motor: 1,050 W
Triple bearing
Double supported milling spindle
Spindle bearing with high speed lubrication
Wheel flange, standard Ø: 43 mm
Stepless speed control: 8000 - 25000 min⁻¹
Motor voltage: 230 V 50-60Hz; 110V 50-60Hz
Full wave electronics – under load, the speed generator provides a power replenishment.

Full wave electronics



Position I: Material thickness from 4.5 mm



Position II: Material thickness from 1.0 mm



Foot Switch (optional)
Prod.-No. 25116

Premium solid carbide end mill on request!!!

Scope of Supply:

- Deburring Device KFT 250, with fine adjustment of the milling depth
- 1 set guide rails
- 1 collet Ø 8 mm and clamping nut
- 1 chip collector
- 1 set operating tools
- 1 operation manual



Cost reduction:

Most of the end mill's cutting range can be used by moving the end mill in the collet.

		Prod.-No.
Deburring Device KFT 250, stationary model	230V 50-60Hz	25110
Deburring Device KFT 250, stationary model	110V 50-60Hz	25110.110
Deburring Device KFT 250 Stationary Model (without motor)		25111
Accessories:		
ALFRA foot switch with female connector	230V	25116
ALFRA foot switch with female connector	110V	25116.110

B



ALFRA *Deburring Device*

KFH 250



Ergonomic
Guidance Handle

Fine adjustment of
bevel depth/width

Clamping lever
for fast adjustment

Guide rollers
facilitate
feed

30° - 45° - 30°
swivelling

Guide rails
of high-strength
special steel

ALFRA DEBURRING DEVICES – KFH 250

Made in Germany by ALFRA



Manually operated model, especially developed for the processing of bevels (visual bevels) and preparation of weld up to 60° on large right-angled workpieces.

- An indispensable helper in engineering and steel construction.
- Wide speed range of various materials.
- Individual adjustment of milling depth.
- Easy handling and guiding through two support rollers.

High Performance Motor with dual bearing milling spindle



Fine Adjustment of Milling Depth/Bevel Width



Cost reduction:

Most of the end mill's cutting range can be used by moving the end mill in the collet.



Technical data:

Prism support:	L = 250 mm W = 70 mm
End mill Ø:	12 mm DIN 6527
Max. bevel width:	14 mm (depending on material)
Bevel angle:	continuously traversable by 30 – 45° – 30° right and left. Also for radii r = 3.0, 4.0, 5.0 by means of radius solid carbide end mills
Power:	1800 W (the quality motor for difficult deburring tasks)
Stepless speed control:	2500 – 23500 min ⁻¹
Full wave electronics – under load, the speed generator provides a power replenishment.	
Collet Ø:	63 mm
Motor voltage:	230 V 50-60Hz; 110V 50-60Hz
Weight:	12.8 kg

Premium solid carbide end mill on request!!!

Scope of Supply:

- Deburring Device KFH 250, with milling depth fine adjustment
- 1 set guide rails with 2 support rollers
- 1 collet Ø 12 mm and clamping nut
- 1 Set Operating Tools
- 1 operation manual

		Prod.-No.
Deburring Device KFH 250	230V 50-60Hz	25130
Deburring Device KFH 250	110V 50-60Hz	25130.110
Deburring Device KFH 250 (without motor)		25131

Guide Rails and Support Rollers made of wear-resistant plastic upon request.

B



ALFRA *Deburring Device*

KFT 500

Guide rails
of high-strength
special steel

Fine adjustment of
bevel depth/width

Clamping lever
for fast adjustment

High Performance Motor
with dual bearing
milling spindle

Chip collecting container

Rubber feet for
quiet running and high
stability

ALFRA DEBURRING DEVICE – KFT 500 (stationary model)

Made in Germany by ALFRA



For medium and larger workpieces.
Max. bevel width 14 mm

For the realisation of unique outer bevel surfaces, without secondary burr.



Exact Deburring by means of self-generating milling cutter



Fine Adjustment of Milling Depth/Bevel Width



Technical data:

- | | |
|---|--|
| Deburring range: | Bevel angle 45° |
| Prism support position I: | Material thickness 6 - 14 mm |
| Position II: | Material thickness from 1.5 mm |
| Prism support: | L = 500 mm |
| Guide rails: | W = 70 mm |
| Max. bevel width: | 14 mm, depending on material |
| | Also suitable for stainless steel when using corresponding end mills, speed and corresponding number of cutting passes (brush edges with cutting oil). |
| | Also for radii R= 3.0, 4.0, 5.0 by means of Solid Carbide End Mill |
| High performance drive motor: | 1,800 W |
| | triple bearing, double bearing milling spindle |
| | Spindle bearing with high speed lubrication |
| Collet Ø: | 63 mm |
| Stepless speed control: | 2500 – 23500 min ⁻¹ |
| Motor voltage: | 230 V 50-60Hz; 110V 50-60Hz |
| Full wave electronics – | |
| under load, the speed generator provides a power replenishment. | |
| Weight: | 18 kg |



Foot Switch (optional)



Position I: Material thickness 6 - 14 mm



Position II: Material thickness from 1.5 mm

Premium solid carbide end mill on request!!!

Scope of Supply:

- Deburring Device KFT 500, with fine adjustment of the milling depth
- 1 set guide rails
- 1 collet Ø 12 mm and clamping nut DIN 6499
- 1 Chip collector
- 1 Set Operating Tools
- 1 operation manual

Prod.-No.

Deburring Device KFT 500, stationary model	230V 50-60Hz	25140
Deburring Device KFT 500, stationary model	110V 50-60Hz	25140.110
Deburring Device KFT 500 Stationary Model (without motor)		25141

ALFRA foot switch with female connector	230V	25116
ALFRA foot switch with female connector	110V	25116.110

Cost reduction:

Most of the end mill's cutting range can be used by moving the end mill in the collet.

for running time reduction and motor sparing operation.
Function: Foot switch pressed – connector energised
Foot switch released – connector cut off



ALFRA – Carbide Deburring End Mills for KFV

MADE IN GERMANY

Designation	Prod.-No.				
Deburring end mill 90° Ø 6 mm, length 25 mm, 3 cutting edges Suitable for: stainless steel, cast iron	25270	■	■		 Prod. No. 25270
Deburring end mill 90° Ø 6 mm, length 25 mm, 5 cutting edges Suitable for: stainless steel, cast iron	25271	■	■		 Prod. No. 25271
Deburring end mill, radius R = 0.5 Ø 6 mm, length 25 mm, 3 cutting edges Radius R = 0.5 Suitable for: stainless steel, cast iron	25272	■	■		 Prod. No. 25272
Deburring end mill, radius R = 1.0 Ø 6 mm, length 25 mm, 3 cutting edges Suitable for: stainless steel, cast iron	25273	■	■		 Prod. No. 25273
Deburring end mill, radius R = 1.5 Ø 6 mm, length 25 mm, 3 cutting edges Suitable for: stainless steel, cast iron	25274	■	■		 Prod. No. 25274
Deburring end mill, radius R = 1.0 Ø 10 mm, tip Ø 4.8 mm, length 27 mm, 6 cutting edges Suitable for: stainless steel, cast iron	25275	■	■		 Prod. No. 25275
Deburring end mill, radius R = 1.5 Ø 10 mm, tip Ø 4.8 mm, length 27 mm, 6 cutting edges Suitable for: stainless steel, cast iron	25276	■	■		 Prod. No. 25276
Deburring end mill, radius R = 2.0 Ø 10 mm, tip Ø 4.8 mm, length 27 mm, 6 cutting edges Suitable for: stainless steel, cast iron	25277	■	■		 Prod. No. 25277
Deburring end mill 90° Ø 10 mm, tip Ø 4.8 mm, length 27 mm, 6 cutting edges Suitable for: stainless steel, cast iron	25278	■	■		 Prod. No. 25278
Axe with ball bearing Ø 3.0 mm, length 25 mm Suitable for: Deburring end mill with length 25 mm	25279	■	■		 Prod. No. 25279
Axe with ball bearing Ø 5.0 mm, length 27 mm Suitable for: Deburring end mill with length 27 mm	25280	■	■		 Prod. No. 25280
Deburring end mill with serration Ø 8 mm, 4 cutting edges Suitable for: steel, stainless steel, cast iron	25281			■	 Prod. No. 25281
Deburring end mill with serration Ø 8 mm, 6 cutting edges Suitable for: steel, stainless steel, cast iron	25282			■	 Prod. No. 25282
Deburring end mill with serration Ø 8 mm, 6 cutting edges Suitable for: steel, stainless steel, cast iron	25283			■	 Prod. No. 25283



ALFRA – Carbide Deburring End Mills Ø 8 - and 12 mm

MADE IN GERMANY



ALFRA Solid Carbide End Mill - Deburring End Mill (similar to DIN 6527)

- These solid carbide end mills were especially developed for perfect deburring tasks.
- The chips are moved off the motor spindle into the chip collector or into the chip channels.
- Total length 60 mm or 80 mm.
- **Coated type**

Premium solid carbide end mill Type "P"



TCT mill

End mill with larger chip spaces, suitable for wide bevels on soft materials, such as aluminium, brass, copper, plastics. Universal use with stainless steel and steel.

Ø	Cutting edges	Prod.-No.	Prod.-No.	Prod.-No.	Prod.-No.
8 mm	4	25150P	25150P	-	-
12 mm	3	25150	25150	25160	25160
		-	-	25160P	25160P
8 mm	5	25151P	25151P	-	-
12 mm	4	25151	25151	25161	25161
		-	-	25161P	25161P
8 mm	6	25152	25152	-	-
12 mm	8	-	-	25162	25162
8 mm	14	25153	25153	-	-
12 mm	12	-	-	25164	25164
8 mm	4	25154P	25154P	-	-
12 mm	4	25154	25154	25163	25163
		-	-	25163P	25163P
12 mm	5	-	-	25165	25165
12 mm	5	-	-	25166	25166
12 mm	5	-	-	25167	25167
8 mm		25159	25159	-	-
12 mm		-	-	25169	25169

Premium solid carbide end mill Type "P"



TCT mill

End mill with larger chip spaces, suitable for wider bevels. Universal use on stainless steel, steel, cast iron, non-ferrous metals, plastics

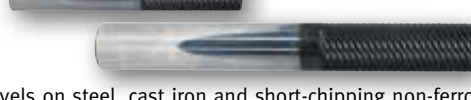
Premium solid carbide end mill Type "P"



TCT mill

for non-ferrous metals copper, brass, bronze, as well as short-chipping aluminium alloys.

Premium solid carbide end mill Type "P"



TCT mill

End mill for narrow bevels on steel, cast iron and short-chipping non-ferrous metals, as well as for hardened materials.

Premium solid carbide end mill Type "P"



TCT mill

rough toothing, fine knurl. **For the preparation of bevel mills.** For steel, cast iron

Premium solid carbide end mill Type "P"



- Solid carbide radius end mill
- For the chamfering of workpiece edges
- Versatile use. When processing hard materials, radii should be bevelled in separate work steps with increasing milling depth.
- The middle adjustment of the radius outline towards the edge of the workpiece is effected by the axial adjustment of the motor in the clamping eye.

Solid Carbide Radius End Mill*, right-hand twist

- R 3.0
- R 4.0
- R 5.0



Ideal as initial equipment.

Carbide End Mill Set in plastic packing
Content: 5 End Mills
Prod.-No. 25150, 25151, 25152, 25153, 25154

Carbide End Mill Set in plastic packing
Content: 5 End Mills
Prod.-No. 25160, 25161, 25162, 25163, 25164



*Delivery time upon request.

B



ALFRA *Deburring Device*

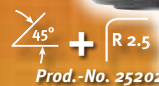
KFK 5

Ergonomic handle with ON/OFF-switch

High Performance Motor with soft start

With thermal and overload protection

Adjustment of bevel width



ALFRA DEBURRING DEVICE – KFK 5

Made in Germany by ALFRA

For the deburring of outer and inner outlines, bevelling, milling of radii and bore holes as from 20 mm Ø. Especially developed to produce clean visible edges and to prepare welds.

- Tool-less adjustment of bevel height.
- Handy and powerful.
- For construction steels, stainless steels, aluminium and other materials.
- Multiple indexable insert holder 45° (optional 30°).
- Also for radii R = 2.5



Initial bores from Ø 20 mm.



Technical data:

Bevel angle:	45° (optional 30°)
Bevel width 45°:	Steel 0 – 5 mm 400 N/mm ² infinitely adjustable Aluminium 0 – 8 mm 250 N/mm ² infinitely adjustable
Bevel width 30°:	Steel 0 – 4 mm 400 N/mm ² infinitely adjustable Aluminium 0 – 6 mm 250 N/mm ² infinitely adjustable
Radius:	R = 2.5
Motor voltage:	230 V 50-60Hz; 110V 50-60Hz
Power:	1300 W
Speed:	6000 - 10,000 min ⁻¹ with soft start With thermal and overload protection
Feed:	manual
Weight:	4.2 kg

Scope of Supply:

- KFK 5 – Deburring and Bevelling Device
- 1 pc. milling tool 45° with indexable inserts
- 1 tool set
- Transport case
- 1 operation manual



Prod.-No. 25207



	Prod.-No.
Deburring Device KFK 5 – with 45° insert holder 230V 50-60Hz	25200
Deburring Device KFK 5 – with 45° insert holder 110V 50-60Hz	25200.110
Deburring Device KFK 5 – with 30° insert holder 230V 50-60Hz	25201
Deburring Device KFK 5 – with 30° insert holder 110V 50-60Hz	25201.110

Extra accessories

45° spare insert holder/radius R=2.5 (without indexable inserts)	25202
30° spare insert holder (without indexable inserts)	25203
Adjustable guide stop for outer edges	25207

Tools:

Indexable insert PM25M for steel 13.47 x 3, coated	25206
Radius insert 2.5 mm	25205
Indexable insert K10 for aluminium/cast iron	25208
Indexable insert BK84 for steel/stainless steel	25209
Torx screws, individually, for spare indexable inserts	25210

B



ALFRA *Bevel Milling Machine*

SKF 63-15



ALFRA BEVEL MILLING MACHINE – SKF 63-15

Made in Germany by ALFRA • For bevel width of max. 15 mm and with a continuously variable angle adjustment 15° - 60°



- The ALFRA Bevel Milling Machine was especially developed for the preparation of welds and for the bevelling of metallic materials.
- Low weight, enabling the universal use on the work piece.
- Machine is designed for one-hand operation. The machine is set at the edge of the work piece and moved with a slight pressure.
- The construction of the milling disk, under the use of commercially available carbide milling plates and a rotation speed of 2870 rpm, guarantees a steady bevel milling without rattling.
- The guide roller's rails are made of hardened steel and guarantee convincing feed values.
- Easy and safe operation by electronic switch-off control in the event of overstressing and reclosure preventing device.
- OFF-button integrated in right handle (Illustration).
- Also suitable for the bevelling of pipes from Ø 160 mm up to Ø 390 mm by means of a special accessory.
- Larger diameters for pipe Ø of 1000 - 1500 - 2000 mm on request.



Integrated OFF-switch

Technical data:

Motor voltage:	230 V 50Hz; 230 V 60Hz; 110V 50Hz; 110V 60Hz
Power:	1100 Watt
Speed:	2870 min ⁻¹
Bevel width:	15 mm max.
Bevel angle:	15 - 20 - 30 - 45 - 60° adjustable
Weight:	21 kg
Dimensions (L x W x H):	440 x 200 x 280 mm

Scope of Supply:

- Bevel Milling Machine SKF 63-15
- 1 set of tools
- Operating Instructions
- Transport case

Prod.-No.

Bevel Milling Machine SKF 63-15	230V 50Hz	25010
Bevel Milling Machine SKF 63-15	230V 60Hz	25010.230-60Hz
Bevel Milling Machine SKF 63-15	110V 50Hz	25010.110-50Hz
Bevel Milling Machine SKF 63-15	110V 60Hz	25010.110-60Hz

Accessories:

Pipe insert for the processing of external bezels on pipes from Ø 160 - 390 mm Larger diameters up to 2000 mm upon request.	25014
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Spare Parts:

Spare index holder consisting of: 2 milling disks and 6 high speed indexable inserts each	25011
Spare milling disk, separate, without indexable insert	25012
TCT indexable insert, TiAlN/TiN-PVD multi-layer coating Universal for steel and Inox, relief angle 11°	25013
TCT indexable insert, TiAlN/TiN-PVD multi-layer coating for steel < 850 N/mm ² ; Inox <> 900 N/mm ² , relief angle 20°	25010.15036B
TCT indexable insert, TiAlN/TiN-PVD multi-layer coating for steel < 1400 N/mm ² ; Inox <> 900 N/mm ² , relief angle 11°	25010.15036E
Milling disk assembly device For an easy assembly of the indexable inserts.	25019



2 milling disks coupled with 6 indexable inserts each



B



ALFRA *Deburring and Edge Grinding Machine*

KSL



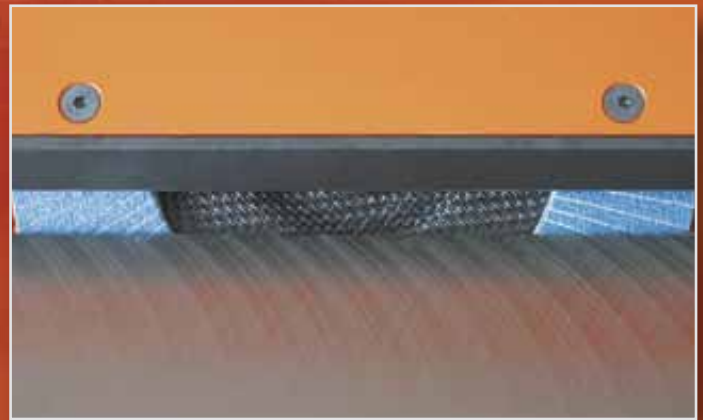
ALFRA DEBURRING AND EDGE GRINDING MACHINE – KSL

Made in Germany by ALFRA



Bench-type model, for the 45°- deburring of small to medium-sized workpieces, by means of abrasive discs 180 mm Ø.

- For all materials.
- As well for tempered workpieces.
- Fast deburring at the single piece.
- Works with any CNC milling machine. Machine operators can deburr by machine alongside.
- Even several parts together can be processed.
- Constant bevels 45° through guide rail.
- With exhaust connecting piece.
- Outstandingly inexpensive, as customary abrasive discs in various grain sizes for all materials are available.



Technical data:

Bench Dimensions:	L = 380 mm, W = 170 mm
Abrasive Disc-Ø:	180 x 22 mm
Material Thickness:	as from 2 mm
Bevel Width:	as from 0 - 2 mm
Exhaust device:	serial
Speed:	2860 rpm
Motor capacity:	550 Watt
Voltage:	230 Volt 50-60 Hz
Weight:	25 kg

Tools:

All customary flapped or abrasive discs Ø 180 mm, Bore Ø 22 mm, with various grain sizes, adapted on the material to be processed, can be used.

Scope of Supply:

- Deburring Device KSL
- 1 Abrasive Disc 180 x 22 mm, Grain 80
- 1 Set Operating Tools
- Operation Manual

B



ALFRA *Automatic Bevel Milling Machine*

SKS-15 AUTO



ALFRA AUTOMATIC BEVEL MILLING MACHINE SKS-15 AUTO



For the preparation of weld; application range: machine and boiler construction, apparatus engineering, shipbuilding, container construction, welding-teaching classes etc.

We analyzed the existing machines on the market and talked with our customers about their requirements and needs. Based on these findings, we developed the perfect machine for the market requirements: our SKS-15 Auto.

The SKS-15 Auto is portable, compact and extremely efficient. It's max. bevel width (B) is 15mm, the bevel angle is continuously adjustable up to 50°.

The preparation of the weld is realized by material shearing with help of a shearing knife. The procedure is very effective, the machine runs smoothly and silent.

Universal application:

- Stationary or with self-feeding on long steel plates.
- The machine moves itself automatically along the edge of the workpiece.
- Safeguarding by a crane or a revolving lifter table is necessary (option).

For mild steel with tensile strength up to 370N/mm² to 520N/mm² - also for stainless steels and aluminium.



Technical data:

Bevel width (B) max.	0,5 up to 15 mm
Infeed	3,6 m/min
Bevel angle	15° to 50° continuously adjustable
Material thickness	min. 5 mm up to max. 40 mm
Material width (min)	70 mm
	The machine can easily be fitted to the material by means of a hand wheel
Material length (min)	150 mm
Shearing knife	regrindable
Durability shearing knife	depends on worked material and bevel width in one working operation
Motor Power	220/380 V / 50 – 60 Hz / 1.500 Watt / 2800 rpm with gear unit
Electric Dimension	dust-proofed, CE-conform
Weight	L = 450 mm, W = 400 mm, H = 820 mm
	88 kg

Scope of Supply:

- SKS-15 Auto, 220/380 V (cable and plug connector are not included)
 - 1 Shearing-knife Eco
 - 1 flat wrench for angle adjustment
 - 1 extractor for the knife
 - 1 set distance disks* 0,5, 1,0, 2,0 mm
 - Manual book
- * The removed material needs to be compensated with distance disks.

	Prod.-No.
SKS-15 Auto, 220/380 V	25950

Accessories:

Manipulator complete with locking device, without machine	25960
Remote Control complete with cable and plug for interface, incl. carton	25961

Spare parts:

Shearing-knife, Premium quality toothed, HSS-steel, coated Ø = 100 mm, knife thickness = 29 mm	25951
Shearing-knife, Eco quality toothed, HSS-steel Ø = 100 mm, knife thickness = 29 mm	25952
Shearing Knife, for other brands:	25954
• CEVISA (CHP6, CHP12, CHP12G)	
• GBC (CHALLENGE 15)	
• GERIMA (MSA200, MSA400)	
toothed, Ø = 93,2 mm (D)	
Knife Thickness = 20 mm (E)	