

► UNIVERSAL EDGE-MILLING AND DEBURRING DEVICE



B



ALFRA Edge-MILLING AND DEBURRING DEVICES – OVERVIEW

Made in Germany by ALFRA



KFH



KFH 150

Page	B/72	B/74
Prod.-No.	25260	25100
Prism mounting	–	L = 150 mm / B = 20/40 mm
End mill Ø	45° or straight Ø 6 mm or 8 mm	TCT as per DIN, Ø 8 mm
Maximum bevel width ▶ in multiple operations	1 - 3 mm, with fine adjustment	1 - 5 mm, depending on material, with fine adjustment
Edge angle	45° and radii	45°
High-performance motor	✓	✓
Motor power	500 Watt	1.050 Watt
Stepless RPM control	11.000 - 25.000 min ⁻¹ with softstart	8.000 – 25.000 min ⁻¹
Full-wave control electronics	✓	✓
Clamping neck 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
Cord length	3.0 m	3.0 m

MOTORS



Prod.-No.	230V: 25193	110V: 25193.110	230V: 25191	110V: 25191.110
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ALFRA EDGE-MILLING AND DEBURRING DEVICES – OVERVIEW



Made in Germany by ALFRA



KFT 250



KFH 250



KFT 500

	B/76		B/78		B/80
	25110		25130		25140
	L = 250 mm / B = 40 mm		L = 250 mm / B = 70 mm		L = 500 mm / B = 70 mm
	TCT as per DIN, Ø 8 mm		TCT as per DIN, Ø 12 mm		TCT as per DIN, Ø 12 mm
	1 - 5 mm, depending on material , with fine adjustment		14 mm DIN S233-S235 6.5 mm stainless steel , with fine adjustment		1.5 - 14 mm , with fine adjustment
	45°		Continuously adjustable, 30° - 45° - 30° Right and left for 60° welding bevels. Also for radii R = 3.0, 4.0 and 5.0 using radius TCT cutter		45°
	✓		✓		✓
	1.050 Watt		1.800 Watt		1.800 Watt
	8.000 – 25.000 min ⁻¹		2.500 – 22.500 min ⁻¹		2.500 – 22.500 min ⁻¹
	✓		✓		✓
	43 mm		63 mm		63 mm
	230 V, 50 – 60 Hz + 110 V, 50 – 60 Hz		230 V, 50 – 60 Hz + 110 V, 50 – 60 Hz		230 V, 50 – 60 Hz + 110 V, 50 – 60 Hz
	5.0 kg		12.8 kg		18 kg
	360 x 250 x 110 mm		480 x 315 x 145 mm		450 x 500 x 160 mm
	3.0 m		3.0 m		3.0 m

MOTORS



230V: 25191

110V: 25191.110



230V: 25192

110V: 25192.110



230V: 25192

110V: 25192.110

B



ALFRA Edge-MILLING AND DEBURRING DEVICES – OVERVIEW

Made in Germany by ALFRA



KFK 5



SKF 63-15

Page	B/84	B/86	
Prod.-No.	25200	25010	
Prism mounting	–	Guide mounting with rollers 240 x 80 mm / 220 x 75 mm	
End mill Ø	Inserts	Inserts	
Maximum bevel width ▶ in multiple operations	45°: Steel 0 - 5 mm, aluminium 0 - 8 mm 30°: Steel 0 - 4 mm, aluminium 0 - 6 mm	15 mm max	
Edge angle	45° (optional 30°, 60°) Radii R = 2.5	15° - 20° - 30° - 45° - 60° adjustable	
High-performance motor	✓	✓	
Motor power	1.530 Watt	1.100 Watt	
Stepless RPM control	4200 - 11.000 min ⁻¹ with softstart	2870 min ⁻¹	
Full-wave control electronics	✓ with thermal and overload protection	✓ with thermal and overload protection	
Right/left run	–	–	
Voltage	230 V, 50 - 60 Hz + 110 V, 50 - 60 Hz	230 V, 50 Hz + 110 V, 50 - 60 Hz	
Weight	4.2 kg	21.0 kg	
Dimensions (L x W x H)	L = 450 mm	440 x 200 x 280 mm	
Cord length	3.0 m	3.0 m	

B



ALFRA ~~EDGE-MILLING~~ AND DEBURRING DEVICES – OVERVIEW

Made in Germany by ALFRA



SKS-15 AUTO

B/88

25950

–

Shearing blades: Ø 100 mm

0.5 - 15 mm

15° - 50°
continuously adjustable

–

1.500 Watt

2800 min⁻¹

–

–

220/380V, 50 – 60 Hz

88 kg

450 x 400 x 820 mm

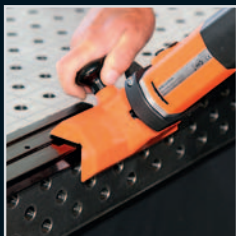
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B



ALFRA EDGE DEBURRING UNIT

Four applications – one device



Prisms, free-hand



Prisms, stationary



Contours, stationary



Contours, free-hand

KFV



ADJUSTMENT OF BEVEL WIDTH

WITH THERMAL AND
OVERLOAD PROTECTION

ON/OFF SWITCH

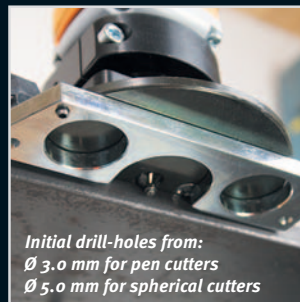
ALFRA KFV EDGE DEBURRING UNIT



Made in Germany by ALFRA

Drive motor (with clamping flange Ø 43 mm) 500 Watt, RPM control 11.000 - 25.000 rpm, quick-change-fitting for use with attachments.

- Contour milling fitting with support table, 72 x 64 mm
- Table milling fitting with support plate, Ø 120 mm
- Tool-less milling height setting.
- Handy and powerful.
- For construction steel, stainless steel, aluminium and other material.
- Also for radii



Initial drill-holes from:
Ø 3.0 mm for pen cutters
Ø 5.0 mm for spherical cutters



Technical specifications:

Bevel angle:	45°
Bevel width 45°:	1 - 3 mm, continuously adjustable
Radius:	R = 1.0 - 1.5 - 2.0
Motor voltage:	230 V 50-60Hz; 110V 50-60Hz
Rating:	500 W
Speed:	11.000 - 25.000 min ⁻¹ with softstart with thermal and overload protection manual
Feed:	
Weight:	1.8 kg

Scope of Supply:

- KFV deburring and bevelling device, drive motor with clamping flange, Ø 43 mm
- Quick-change fitting for use with attachments
- Contour milling fitting with support table, 72 x 64 mm
- Table milling fitting with support plate, Ø 120 mm
- Prism milling fitting with guide rails, 150 mm length
- Tensioning shank for vice
- Collet 6 mm (mounted), collet 8 mm (included)
- One set of operating tools
- Carrying case
- Guide stop for outer edges
- 1 Operational manual



Prod.-No.

Edge-milling unit, KFV, complete	230V 50-60Hz	25260
Edge-milling unit, KFV, complete	110V 50-60Hz	25260.110



ALFRA **EDGE DEBURRING UNIT**

KFH 150



ALFRA EDGE DEBURRING UNIT – KFH 150



Made in Germany by ALFRA

The unit enables work pieces to be worked wherever machined edge milling is too expensive.

Hand-operated model for 45° deburring of larger work pieces, profiles, supports, sheet metal panels, with 90° mounting.

- Hand-operated, for 45° bevels.
- Optimal guidance and safe handling.
- Commercially available solid carbide cutter Ø 8 mm.

FULL-WAVE
CONTROL ELECTRONICS



Technical specifications:

Prism mounting 45°:	L = 150 mm
End mill:	W = 20/40 mm
Maximum bevel width:	Solid carbide as per DIN, Ø 8 mm
	1 - 5 mm, dependent on material with fine adjustment
High-performance motor	With full-wave control electronics
Motor voltage:	230V 50-60Hz; 110V 50-60Hz
Motor power:	1.050 W
Electronics:	8.000 – 25.000 min ⁻¹
Clamping neck Ø:	43 mm
Weight:	3.5 kg

Scope of Supply:

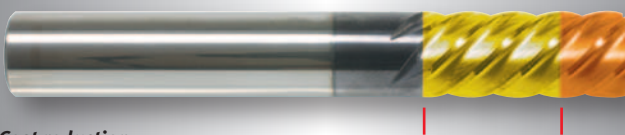
- Deburring unit KFH 150
- 1 set of guide rails
- 1 collet 8 mm Ø and clamping nut
- 1 set of operating manual

Prod.-No.

Deburring unit KFH 150	230V 50-60Hz	25100
Deburring unit KFH 150	110V 50-60Hz	25100.110
Adapter head for deburring unit KFH 150		25109

Cost reduction:

Most of the cutting area can be accessed by moving the milling cutter in the collet.



B



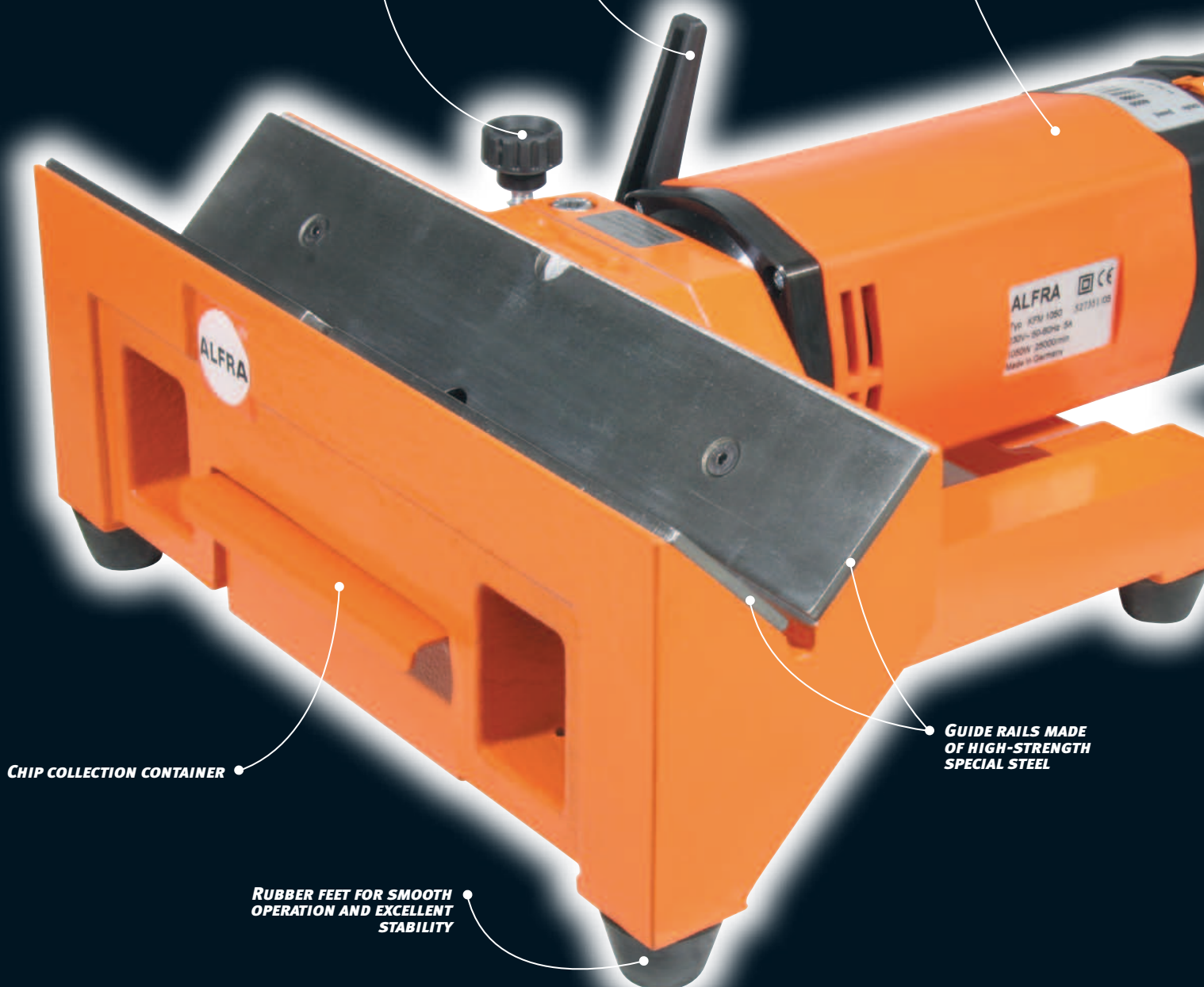
ALFRA **EDGE DEBURRING UNIT**

KFT 250

**CLAMPING GRIP
FOR RAPID ADJUSTMENT**

**HIGH-PERFORMANCE MOTOR
WITH DOUBLE BEARING-MOUNTED
MILLING SPINDLE**

**FINE ADJUSTMENT TO
BEVEL DEPTH / WIDTH**



**GUIDE RAILS MADE
OF HIGH-STRENGTH
SPECIAL STEEL**

CHIP COLLECTION CONTAINER

**RUBBER FEET FOR SMOOTH
OPERATION AND EXCELLENT
STABILITY**

ALFRA EDGE DEBURRING UNIT – KFT 250

Made in Germany by ALFRA



Simple, cost-effective deburring unit for light to medium use.

To obtain perfectly milled surfaces with DIN 6527 solid carbide end mills in rolling sections with no secondary milling.

**FULL-WAVE
CONTROL ELECTRONICS**



Position I: Material thickness from 4.5 mm



Position II: Material thickness from 1.0 mm



Technical specifications:

- Milling area:
- Prism mounting position I: Bevel angle 45°
- Position II: Material thickness from 4.5 mm
- Prism mounting: Material thickness from 1.0 mm
- Guide rail: L = 250 mm
- Maximum bevel width: W = 40 mm
- Weight: 5 mm, dependent on the material.
- High-performance drive motor: 1.050 W
- Triple bearing
- Double bearing-mounted milling spindle
- Spindle bearings with high-speed lubrication
- Standard clamping flange Ø: 43 mm
- Stepless RPM control: 8.000 - 25.000 min⁻¹
- Motor voltage: 230V 50-60Hz; 110V 50-60Hz
- Full-wave control electronics –
- When under load, the tachogenerator provides additional power.



Foot switch (optional)
Prod.-No. 25116

Scope of Supply:

- Deburring unit KFT 250 with fine milling depth adjustment
- 1 set of guide rails
- 1 collet 8 mm Ø and clamping nut
- 1 chip collection container
- 1 set of operating tools
- 1 set of operating manual

Prod.-No.

Deburring unit KFT 250	230V 50-60Hz	25110
Deburring unit KFT 250	110V 50-60Hz	25110.110

Table for deburring unit KFT 250	25111
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Special Accessories:

ALFRA foot switch with device cable socket	230V	25116
ALFRA foot switch with device cable socket	110V	25116.110

Cost reduction:

Most of the cutting area can be accessed by moving the milling cutter in the collet.



B



ALFRA **EDGE DEBURRING UNIT**

KFH 250

ERGONOMICALLY SHAPED
GUIDE HAND GRIP

FINE ADJUSTMENT TO
MILLING DEPTH / BEVEL WIDTH

HIGH-PERFORMANCE MOTOR WITH
DOUBLE BEARING-MOUNTED MILLING SPINDLE

30° - 45° - 30°
SWIVELLING

GUIDE RAILS MADE OF
HIGH-STRENGTH SPECIAL STEEL

B

ALFRA EDGE DEBURRING UNIT – KFH 250



Made in Germany by ALFRA

Hand-held model specially developed for working on edges (visible edges) and bevelling up to 60° on large rectangular work pieces.

- A vital accessory for mechanical engineering.
- Wide speed range for different materials.
- Individually adjustable milling depth.
- Easy to handle and guide with two support rollers.

CLAMPING GRIP
FOR RAPID ADJUSTMENT



GUIDE ROLLERS
FACILITATE
FEEDING



Fine adjustments to milling depth/bevel width



Cost reduction:

Most of the cutting area can be accessed by moving the milling cutter in the collet.



Technical specifications:

Prism mounting:	L = 250 mm W = 70 mm
Shank cutter Ø:	12 mm DIN 6527
Maximum bevel width:	14 mm (dependent on the material)
Edge angle:	continuously adjustable swivelling, 30°-45°-30°, right and left. Also for radii r = 3.0, 4.0, 5.0 using radius-solid-carbide milling cutter
Rating:	1.800 W (high-quality motor for difficult deburring tasks)
Stepless RPM control:	2.500 – 22.500 min ⁻¹
Full-wave control electronics – When under load, the tachogenerator provides additional power.	
Clamping neck Ø:	63 mm
Motor voltage:	230V 50-60Hz; 110V 50-60Hz
Weight:	12.8 kg

Scope of Supply:

- Deburring unit KFH 250 with fine milling depth adjustment
- 1 set of guide rails with two support rollers
- 1 collet Ø 12 mm and clamping nut
- 1 set of operating tools
- 1 set of operating manual

Prod.-No.

Deburring unit KFH 250	230V 50-60Hz	25130
Deburring unit KFH 250	110V 50-60Hz	25130.110
Adapter head for deburring unit KFH 250		25131

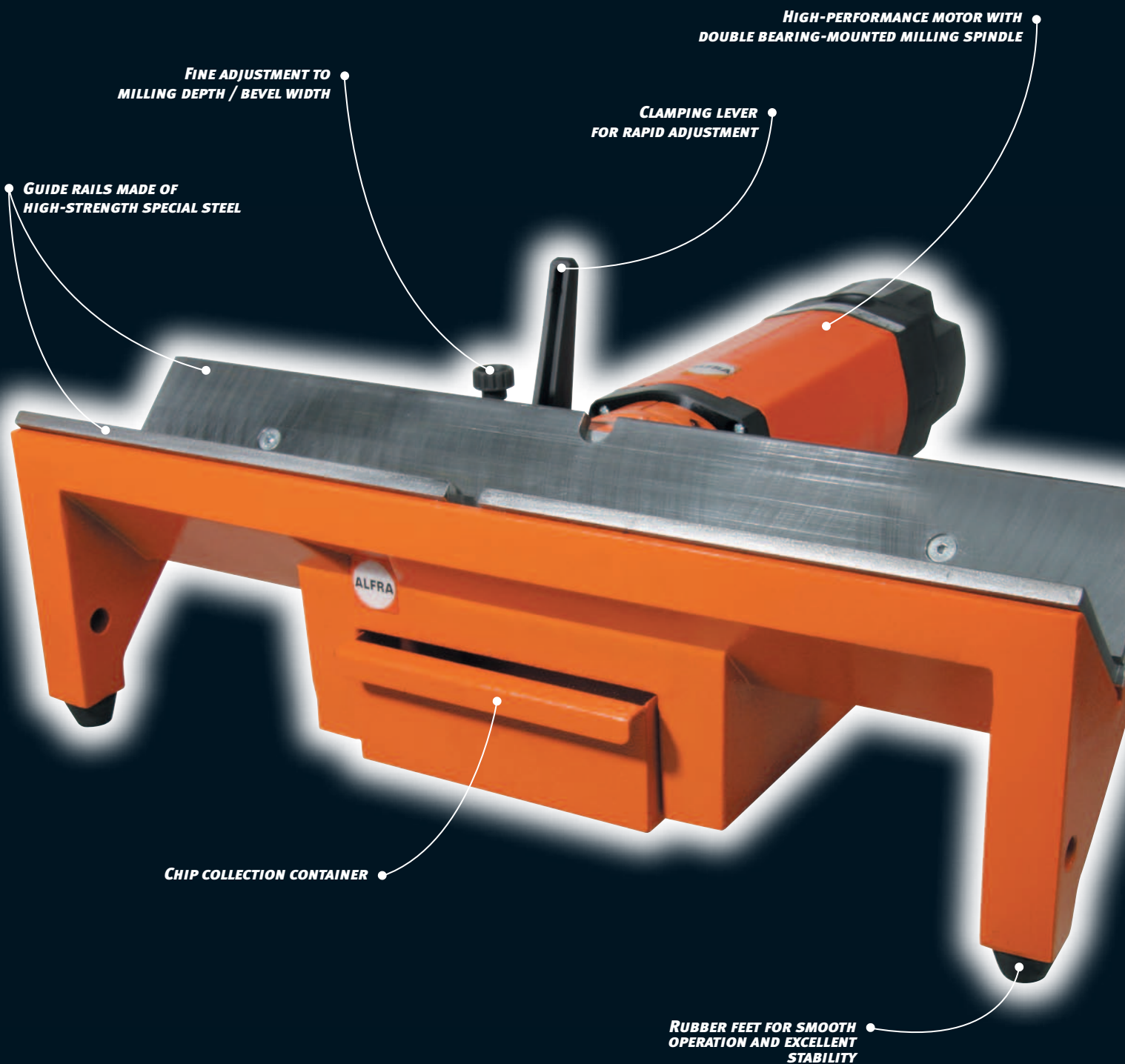
Prism mounting and support rollers made of wear-resistant plastic upon request.

B



ALFRA **EDGE DEBURRING UNIT**

KFT 500



FINE ADJUSTMENT TO
MILLING DEPTH / BEVEL WIDTH

HIGH-PERFORMANCE MOTOR WITH
DOUBLE BEARING-MOUNTED MILLING SPINDLE

CLAMPING LEVER
FOR RAPID ADJUSTMENT

GUIDE RAILS MADE OF
HIGH-STRENGTH SPECIAL STEEL

CHIP COLLECTION CONTAINER

RUBBER FEET FOR SMOOTH
OPERATION AND EXCELLENT
STABILITY

ALFRA EDGE DEBURRING UNIT – KFT 500



Made in Germany by ALFRA

For medium- and large-sized work pieces.
Maximum bevel width 14 mm

To obtain perfectly milled surfaces with solid carbide end mills in rolling sections with no secondary milling.



Exact deburring with with self-generating milling cutter



Foot switch (optional)
Prod.-No. 25116



Fine adjustments to milling depth/
bevel width



Position I: Material thickness 6 - 14 mm



Position II: Material thickness from 1.5 mm



Cost reduction:

Most of the cutting area can be accessed by moving the milling cutter in the collet.



Technical specifications:

Deburring area:	Bevel angle 45°
Prism mounting position I:	Material thickness 6 - 14 mm
Position II:	Material thickness from 1.5 mm
Prism mounting:	L = 500 mm
Guide rail:	W = 70 mm
Maximum bevel width:	14 mm, dependent on the material
	Also for stainless steel when selecting a suitable milling cutter and RPM control, and cut division (spray edges with cutting oil).
	Also for radii R 3.0, 4.0, 5.0 using radius solid carbide cutter
High-performance drive motor:	1.800 W
Triple bearing, double bearing-mounted milling spindle	
Spindle bearings with high-speed lubrication	
Clamping neck Ø:	63 mm
Stepless RPM control:	2.500 – 22.500 min ⁻¹
Motor voltage:	230V 50-60Hz; 110V 50-60Hz
Full-wave control electronics –	
when under load, the tachogenerator provides additional power	
Weight:	18 kg

Scope of Supply:

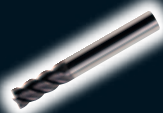
- Deburring unit KFT 500 with fine milling depth adjustment
- 1 set of guide rails
- 1 collet Ø 12 mm and clamping nut DIN 6499
- 1 chip collection container
- 1 set of operating tools
- 1 set of operating manual

		Prod.-No.
Deburring unit KFT 500	230V 50-60Hz	25140
Deburring unit KFT 500	110V 50-60Hz	25140.110
Table for deburring unit KFT 500		25141
ALFRA foot switch with device cable socket	230V	25116
ALFRA foot switch with device cable socket	110V	25116.110

Shorter run times and motor-saving work.

Function: Foot switch pressed – socket is live

Foot switch released – power supply interrupted



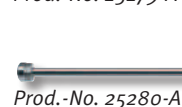
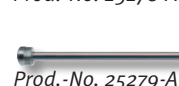
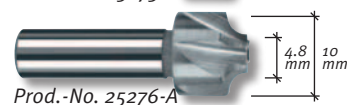
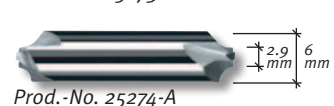
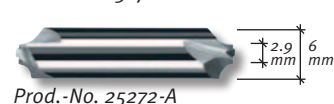
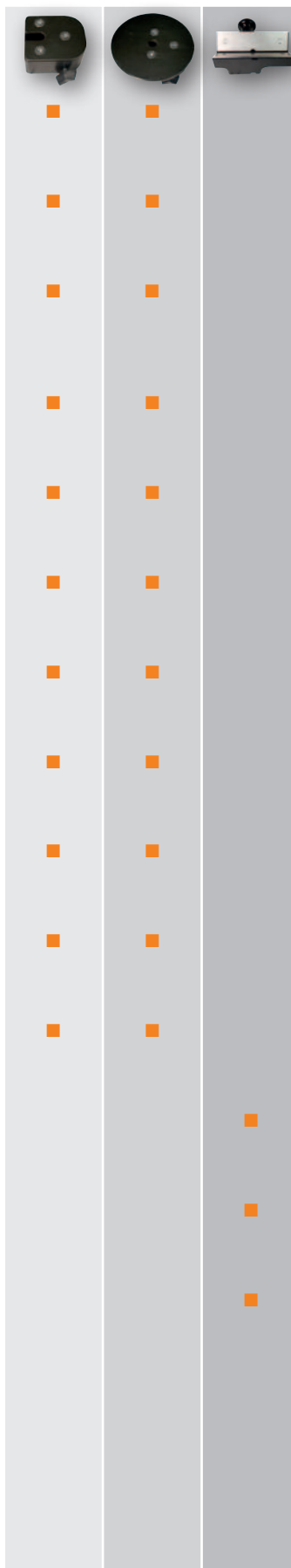
ALFRA – CARBIDE DEBURRING END MILLS FOR KFV

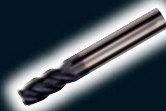
Made in Germany

Description

Prod.-No.

Deburring end mill 45° Ø 6 mm, tip Ø 2.5 mm, length 31 mm, 3 cuts Suitable for: stainless steel, cast iron	25270-A
Deburring end mill 45° Ø 6 mm, tip Ø 2.5 mm, length 31 mm, 5 cuts Suitable for: stainless steel, cast iron	25271-A
Deburring end mill, radius R = 0.5 Ø 6 mm, tip Ø 2.9 mm, length 31 mm, 3 cuts Radius R = 0.5 Suitable for: stainless steel, cast iron	25272-A
Deburring end mill, radius R = 1.0 Ø 6 mm, tip Ø 2.9 mm, length 31 mm, 3 cuts Suitable for: stainless steel, cast iron	25273-A
Deburring end mill, radius R = 1.5 Ø 6 mm, tip Ø 2.9 mm, length 31 mm, 3 cuts Suitable for: stainless steel, cast iron	25274-A
Deburring end mill, radius R = 1.0 Ø 10 mm, tip Ø 4.8 mm, length 30 mm, 6 cuts Suitable for: stainless steel, cast iron	25275-A
Deburring end mill, radius R = 1.5 Ø 10 mm, tip Ø 4.8 mm, length 30 mm, 6 cuts Suitable for: stainless steel, cast iron	25276-A
Deburring end mill, radius R = 2.0 Ø 10 mm, tip Ø 4.8 mm, length 30 mm, 6 cuts Suitable for: stainless steel, cast iron	25277-A
Deburring end mill 45° Ø 10 mm, tip Ø 4.8 mm, length 30 mm, 6 cuts Suitable for: stainless steel, cast iron	25278-A
Axes with thrust bearing (Axis: Ø 1.5 mm - bearing: Ø 3.0 mm) Suitable for deburring mills with tips - Ø 2.5 - 2.9 mm	25279-A
Axes with thrust bearing (Axis: Ø 1.5 mm - bearing: Ø 5.0 mm) Suitable for deburring mills with tips - Ø 4.8 mm	25280-A
Deburring end mill with serration Ø 8 mm, 4 cuts Suitable for: Steel, stainless steel, cast iron	25281
Deburring end mill with serration Ø 8 mm, 6 cuts Suitable for: Steel, stainless steel, cast iron	25282
Deburring end mill with serration Ø 8 mm, 12 cuts Suitable for: Steel, stainless steel, cast iron	25283





ALFRA – CARBIDE DEBURRING END MILLS FOR KFH/KFT

Made in Germany



ALFRA Solid Carbide End Mill - Deburring End Mill (similar to DIN 6527)							
- This solid carbide end mill was developed for perfect deburring. - The chips are removed from the motor spindle into the chip collection container or the chip duct. - Total length 60 mm or 80 mm. - Coated design		Ø	Cutting edges	Prod.-No.	Prod.-No.	Prod.-No.	Prod.-No.
Carbide mill End mill with larger chip spaces, suitable for large bevels on soft materials such as aluminium , as well as brass, copper, and plastics. Universal application for steel and stainless steel.							
		8 mm	3	25150P	25150P		
		12 mm	3			25160P	25160P
Carbide mill End mill with larger chip spaces, suitable for larger bevels. Universal application such as for stainless steel , as well as steel, cast iron, non-ferrous metals, plastics							
		8 mm	4	25151P	25151P		
		12 mm	4			25161P	25161P
Carbide mill Roughing, fine cord. For attaching welding bevels. For steel , as well as cast iron, stainless steel (universal milling cutter)							
		8 mm	4	25154P	25154P		
		12 mm	4			25163P	25163P
Solid Carbide Radius End Mill* - Solid Carbide Radius End Mill with 2 radius grooves for dual use - For rounding off work piece edges - Universally applicable. For hard materials, the radii should be created in successive steps with increasing milling depths. - The fine adjustment of the contour of the radii to the edge of the work piece is achieved using the axial displacement of the motor in the clamping holes.							
 	R 3.0	12 mm	5	-	-	25165	25165
	R 4.0	12 mm	5	-	-	25166	25166
	R 5.0	12 mm	5	-	-	25167	25167

*Delivery time upon request.



ALFRA EDGE DEBURRING UNIT

KFK 5

HIGH-PERFORMANCE MOTOR
WITH SOFT START MOTOR

WITH THERMAL AND
OVERLOAD PROTECTION

ERGONOMICALLY SHAPED
HAND GRIP WITH
ON-/ OFF-SWITCH

CONTINUOUSLY ADJUSTABLE
BEVEL WIDTH SETTING USING SCALE

$\angle 45^\circ$ + R 2.5
Prod.-No. 25202

$\angle 30^\circ$
Prod.-No. 25203

ALFRA EDGE DEBURRING UNIT – KFK 5



Made in Germany by ALFRA

For deburring inner and outer edges, bevelling metal parts, milling radii and holes from Ø 20 mm. Specially developed to produce clean visible edges and weld preparation.

- Tool-less bevel height setting.
- Handy and powerful.
- For structural steel, stainless steel, aluminium and other materials.
- Multiple insert holders, 45° (optional 30°).
- Also for radii R = 2.5



Start holes from Ø 20 mm.



Technical specifications:

Bevel angle:	45° (optional 30°, 60°)
Bevel width 45°:	Steel 0 – 5 mm 400 N/mm² continuously adjustable Aluminium 0 – 8 mm 250 N/mm² continuously adjustable
Bevel width 30°:	Steel 0 – 4 mm 400 N/mm² continuously adjustable Aluminium 0 – 6 mm 250 N/mm² continuously adjustable
Radius:	R = 2.5
Motor voltage:	230V 50-60Hz; 110V 50-60Hz
Rating:	1.530 W
Speed:	4.200 - 11.000 min⁻¹ with softstart with thermal and overload protection
Feed:	manual
Weight:	4 kg

Scope of Supply:

- KFK 5 – Deburring and bevelling unit
- 1 pc. 45° milling tool with inserts
- 1 tool set
- Carrying case
- 1 set of operating manual



Prod.-No. 25207



		Prod.-No.
Deburring unit KFK 5 – with 45° milling head	230V 50-60Hz	25200
Deburring unit KFK 5 – with 45° milling head	110V 50-60Hz	25200.110
Deburring unit KFK 5 – with 30° milling head	230V 50-60Hz	25201
Deburring unit KFK 5 – with 30° milling head	110V 50-60Hz	25201.110

Additional accessories:

45° replacement milling head/radius R=2.5 (no inserts)	25202
30° replacement milling head (no inserts)	25203
60° replacement milling head (no inserts) upon request	25213

Adjustable guide stop for outer edges	25207
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Tools:

Insert PM25M for steel 13.47 x 3 coated	25206
Radius insert 2.5 mm	25205
Insert K10 for aluminium/cast iron	25208
Insert BK84 for steel/stainless steel	25209
Torx screws, individual, for replacement inserts	25210