

**SUHDNER**<sup>®</sup>  
**ABRASIVE**

# UEK 10-R

## Beveling and rounding



**SUHDNER**<sup>®</sup>  
ADVANCED COMPONENT CREATION



## UEK 10-R – the powerful beveling tool

The UEK 10-R is a powerful beveling tool used in steel and metal construction, for containers and devices, for vehicle construction, shipbuilding and pipeline construction.

The front handle grip is very close to the work surface and facilitates machine handling for employees. This places the hand guiding the machine very close to the workpiece, providing the best possible conditions for controlling it with only minimal tilting.

Avoiding or massively reducing vibrations is an important factor for SUHNER. Today, many workers in production are exposed to vibrations and suffer from HAVS (hand-arm-vibration-syndrome). The SUHNER concept solves this problem and the UEK 10-R is almost vibration-free.

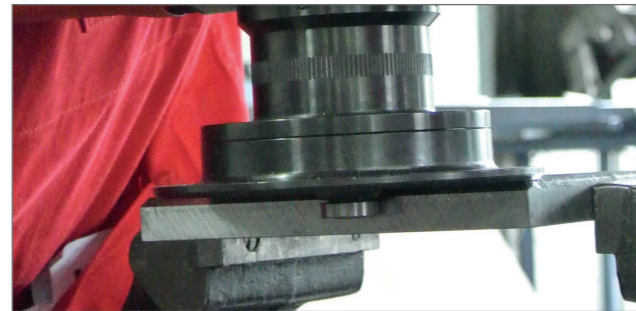
Control electronics maintain the speed at a constant level for a cleanly milled edge in order to achieve final results with consistent high quality.

### Speed selection

The speed is easily adjusted using the adjusting wheel with reference to the speed table and the defined speed of the beveling tool.

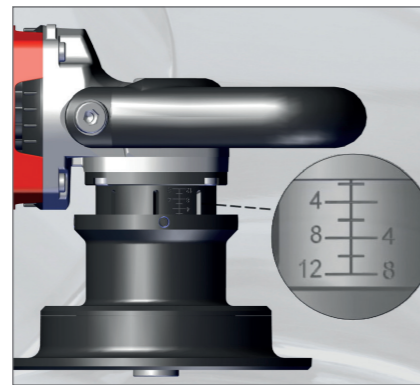


### Useful functions



#### Rotating backing plate

The rotating backing plate enables you to work with smooth, flowing movements. This feature reduces friction on the workpiece and prevents scratches.



#### Adjusting the bevel height

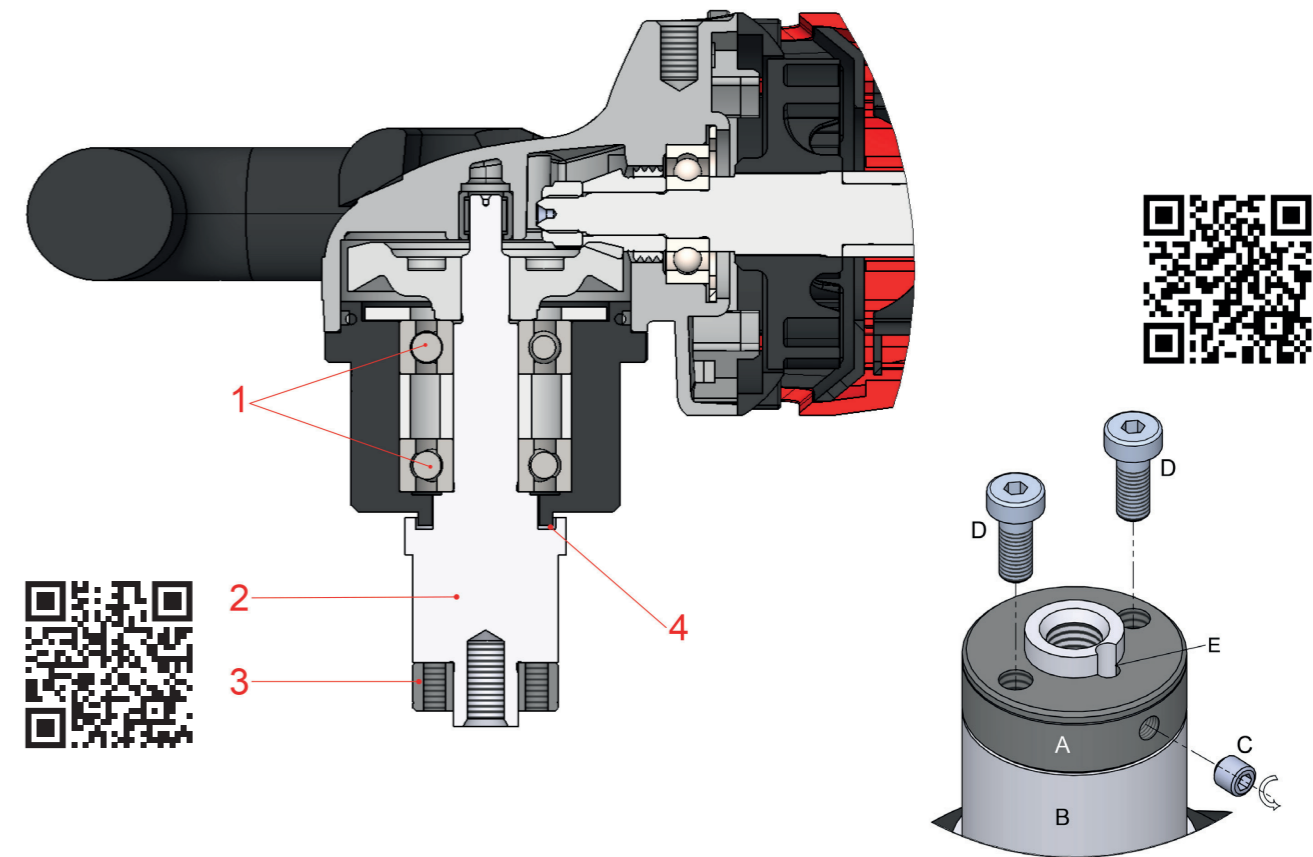
This device's quick, tool-free adjustment function allows you to set the stroke by hand safely and rapidly. The setter perceptibly engages every time it is turned 45°, which changes the stroke in intervals of 0.25 mm.



## The SUHNER concept

With the SUHNER concept, we achieve optimum results in terms of

- Very low vibration levels – a high degree of ergonomic comfort for employees
- Very stable true running – longer service life of milling cutters
- Distance piece for protection of spindle – lower repair costs
- Sealing ring – protects the machine against the entry of dirt



### How does it work?

- 1 Bearings: Better quality through increased bearing distance. High-quality ball bearings decrease the bearing clearance.
- 2 Spindle (B): The spindle is made of a single part. This improves true running and extends service life, and also improves the surface quality of the milled edges.
- 3 Distance piece (A): A distance piece was added to protect the spindle against damage in case the milling cutter breaks. In this case, only the distance piece is damaged and can easily be replaced.
- 4 Labyrinth seal: This prevents the entry of dirt and chips.

### Technical data / versions:

Type	Voltage	Speed	Power input	Plug	ID no.	Mat. no.
	V	rpm	W			
UEK 10-R (230V VDE)	230	4 600 – 10 500	1 530	VDE	111 261 01	100 035 398
UEK 10-R (230V SEV)	230	4 600 – 10 500	1 530	SEV	111 261 02	100 035 399
UEK 10-R (120V)	120	4 600 – 10 500	1 340	USA	111 262 03	100 035 400

**Motor version:** Universal motor with protective insulation

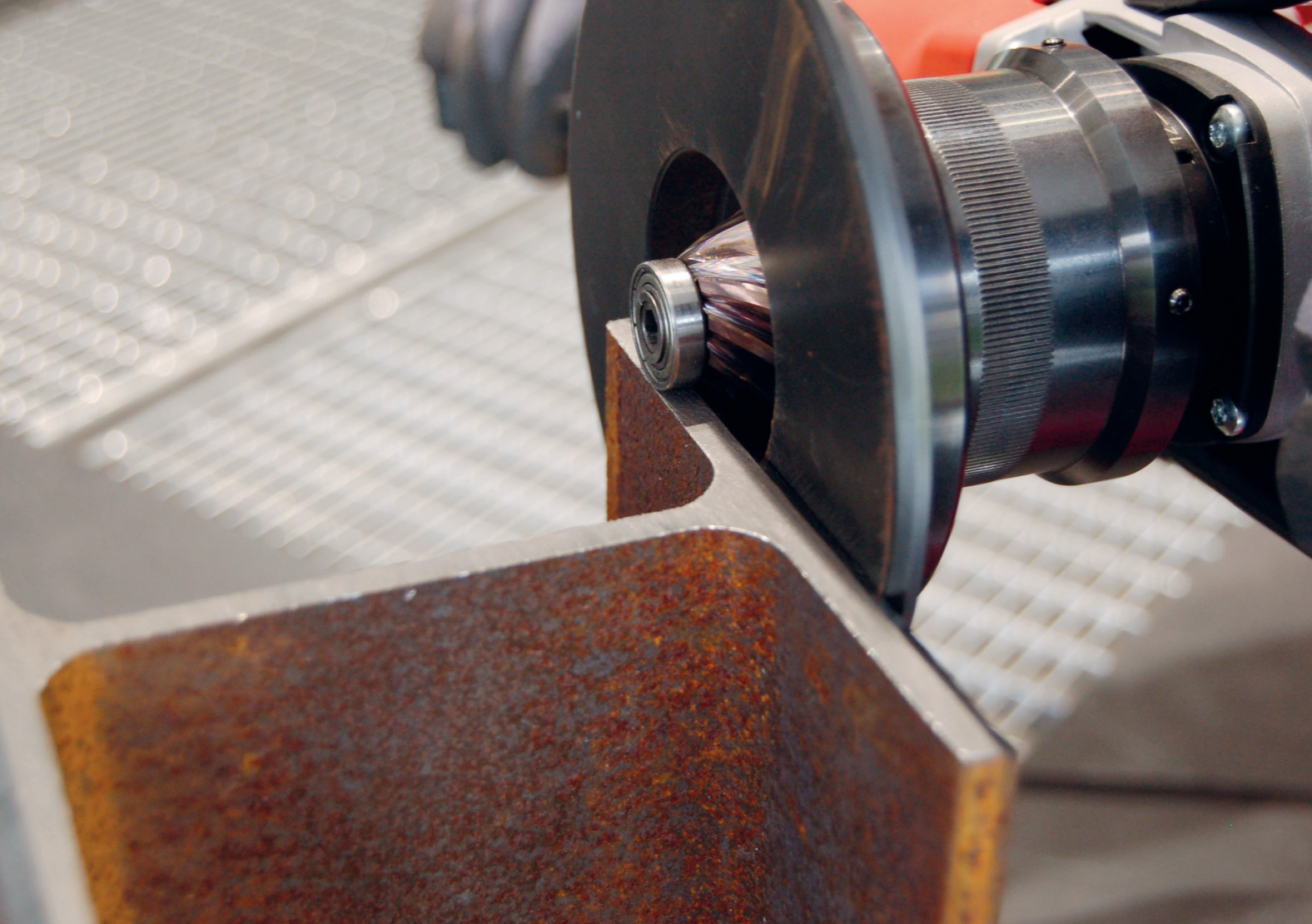
Standard equipment: Supply cable, hexagon key wrench, with practical case

Type	ID no.	Mat. no.	
Distance piece (A)	450 295 53	100 001 8231	1
Setscrew (C)	450 327 10	100 001 8311	1
Cylindrical pin (E)	027 831 39	100 005 0602	1
<b>Not illustrated.</b> Screw (D)	027 602 37	100 005 1503	1



## Using the beveling tool UEK 10-R

The SUHNER UEK 10-R offers ideal solutions for beveling and rounding using the beveling tool, as well as a broad portfolio of milling cutters for steel and aluminum. Our concept offers faster weld seam preparation and beveling and rounding of metal, with solid carbide cutters for extended service life. Its ergonomic properties are synonymous with safety and health at work.



### Beveling

- Preparing the weld seam
- Deburring

### Rounding

- Preparing the powder coating
- Smooth finish and high-quality visible edges
- Cable feed

### Advantages at a glance

The UEK 10-R in combination with the milling cutters achieves a high degree of profitability and productivity at low cost and with consistent high quality.

#### Faster milling

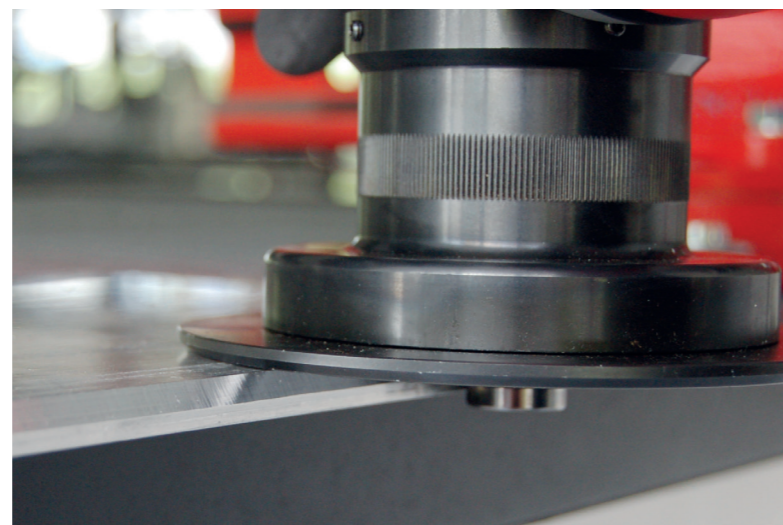
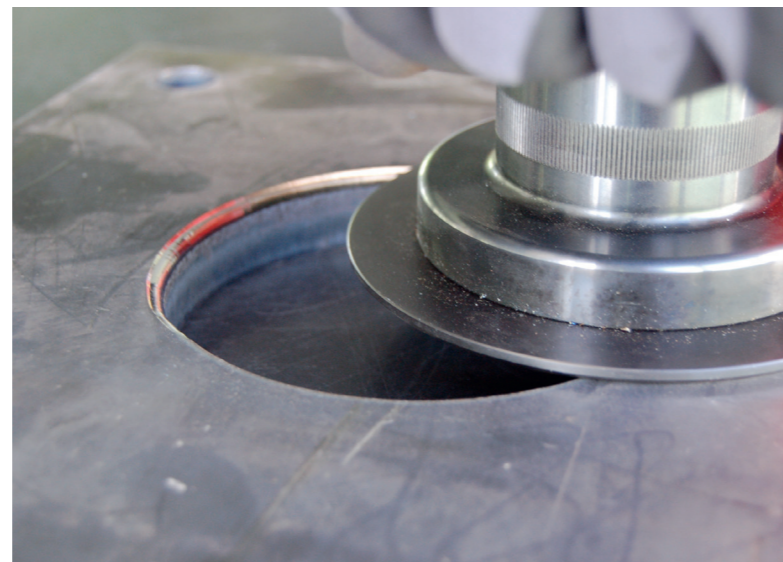
The unique construction of the metal milling cutters allows workpieces to be beveled and rounded faster than with conventional methods.

#### Longer service life

In our experience, 100 to 140 meters of construction steel can be machined using only one milling head if the UEK 10-R is used diligently and properly for beveling.

#### Consistent quality

The constant contact with the metal guarantees a smooth cut surface. As the SUHNER concept is virtually spark-free, there is no contamination.










### Our selection of milling cutters

It is very important to choose the right milling cutter for each application to achieve the best final result.

	S235	S355	Steel plasma/ laser cutting	SS 304/316	Non-ferrous metals
KE	✓	✓	✓	✗	✗
KE ALU	✗	✗	✗	✗	✓

#### Accessories for beveling cutters

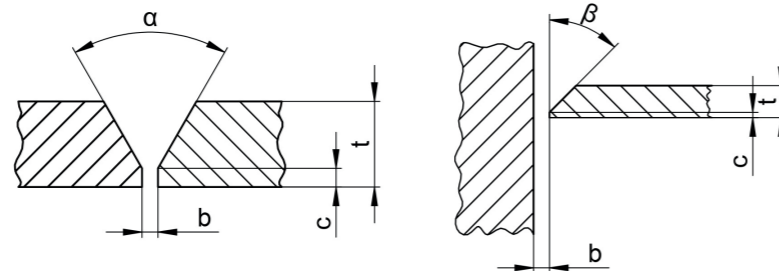
	Type	Cut- ting edges	Router height mm	Angle	Radius mm	Max bevel length	ID no.	Mat. no.	
	Radius head	KE R2	10	8.5	2		912 671 00	100 007 349	1
	Radius head for steel	KE R3	10	8.5	3		912 672 00	100 007 350	1
	Radius head for steel	KE R4	10	8.5	4		912 673 00	100 007 351	1
	Radius head	KE R2 ALU	8	8.5	2		912 892 00	100 007 495	1
	Radius head for aluminum	KE R3 ALU	8	8.5	3		912 893 00	100 007 496	1
	Radius head for aluminum	KE R4 ALU	8	8.5	4		912 894 00	100 007 497	1
	Beveling head	KE 30-08	10	8.5	30	9.2	912 674 00	100 007 352	1
	Beveling head for steel	KE 30-12	10	12	30	13.9	912 677 00	100 007 355	1
	Beveling head for steel	KE 37-08	10	8.5	37.5	10.1	912 675 00	100 007 353	1
	Beveling head for steel	KE 37-12	10	12	37.5	15.1	912 678 00	100 007 356	1
	Beveling head for steel	KE 45-08	10	8.5	45	11.5	912 676 00	100 007 354	1
	Beveling head for steel	KE 45-12	10	12	45	16.9	912 679 00	100 007 357	1
	Beveling head	KE 30-08 ALU	8	8.5	30	9.2	912 895 00	100 007 498	1
	Beveling head for aluminum	KE 45-08 ALU	8	8.5	45	11.5	912 896 00	100 007 499	1
	Accessories for cutters	KE GB 08					912 680 00	100 007 358	1
	Accessories for cutters	KE GB 12					912 681 00	100 007 359	1

### Compliance with standards

SUHNER's broad, high-quality product range allows you to comply with norms while successfully completing a wide variety of tasks.

Recommendation for preparation:

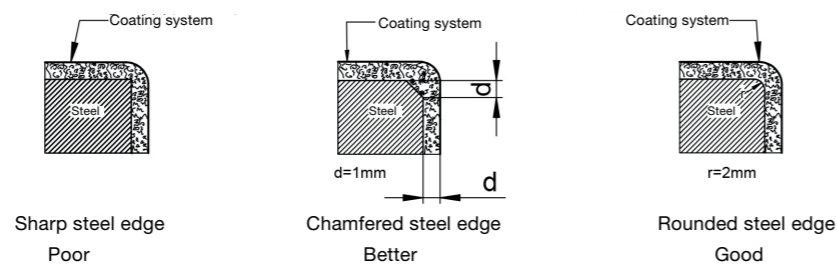
**Beveling**  
ISO 9692-1  
Welding and allied processes



**Rounding**  
ISO 8501-3  
Preparation of steel substrates

ISO 12944-3  
Paints and varnishes

IMO PSPC  
Performance standard for protective coatings



## FLEETCare@Suhner and ABRACare@Suhner

– The comprehensive Suhner rental model.

### FLEETCare@Suhner

The machine package that takes care of everything for you!

- 100% availability
- Fixed costs make it easy to plan ahead
- Repair and preventive maintenance
- Expanding expertise with employee training

**On customer's site**  
Machines in operation  
Option: Availability of stock= 100 % availability

**At Suhner**  
Maintained / repaired machine goes to warehouse

**Machine defective / maintenance due / end of life**

**Machine is being repaired / maintained**

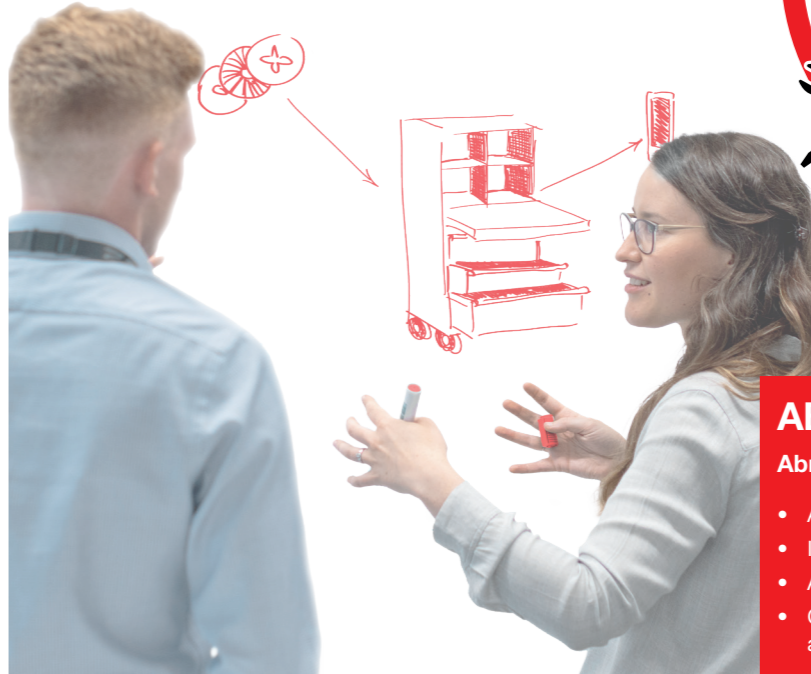
**Transport 1**  
Defective machine or machine that needs to undergo maintenance goes to Suhner

**Transport 2**  
Repaired / maintained machine goes to customer

### ABRACare@Suhner

Abrasive inventory optimization for you!

- Automatic, demand-driven order triggering
- Inventory management
- Abrasive cabinet and tools
- Consignment warehouse, no downtime and guaranteed stock availability



## SUHNER@Work

The best place to try out our products is at your workplace.
















Benefit from our comprehensive process expertise in grinding and abrasive technology. See what's new and discover more effective and more efficient options.

Try our products out on your current projects. Find out how ergonomic tools can boost your productivity.



# **SUHNER®**

## **ADVANCED COMPONENT CREATION**

					
	Switzerland	SUHNER Schweiz AG	Lupfig	abrasive.ch@suhner.com	+41 (0)56 464 28 80
	Switzerland	SUHNER Schweiz AG / Turbo Trim	Lupfig	turbo-trim.ch@suhner.com	+41 (0)56 464 28 80
	Germany	SUHNER Deutschland GmbH	Bad Säckingen	abrasive.de@suhner.com	+49 (0)7761 557 0
	USA	SUHNER USA Inc.	Rome, GA	abrasive.us@suhner.com	+1 (706) 235-8046
	Austria	SUHNER Austria GmbH	Wien	abrasive.at@suhner.com	+43 (0)1 587 16 14
	France	SUHNER France SAS	Ensisheim	abrasive.fr@suhner.com	+33 (0)3 89 82 39 96
	Italy	SUHNER Italia S.r.l.	Zola Predosa (BO)	abrasive.it@suhner.com	+39 0 35 22 06 98
	Australia	SUHNER Pty Ltd.	Silverwater	abrasive.au@suhner.com	+61 (0)2 96 48 58 88
	Mexico	SUHNER México SA de CV	San Juan del Rio	abrasive.mx@suhner.com	+52 427 272 39 78
	India	SUHNER India Pvt. Ltd.	Bangalore	abrasive.in@suhner.com	+91 (0) 80- 27 831108
	China	Suhner (Suzhou) Ind. Techn. Ltd.	Suzhou	abrasive.cn@suhner.com	+86 512 628 77 808

**www.suhner.com**