

**SUHNER**<sup>®</sup>  
**ABRASIVE**

# All-in-one- Powerhouse

ROTOmax 4.2 TWIN

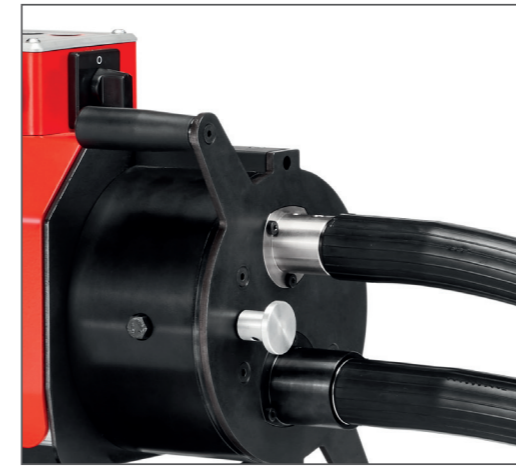


**SUHNER**<sup>®</sup>  
ADVANCED COMPONENT CREATION

# ROTOmax 4.2 TWIN

## – Details

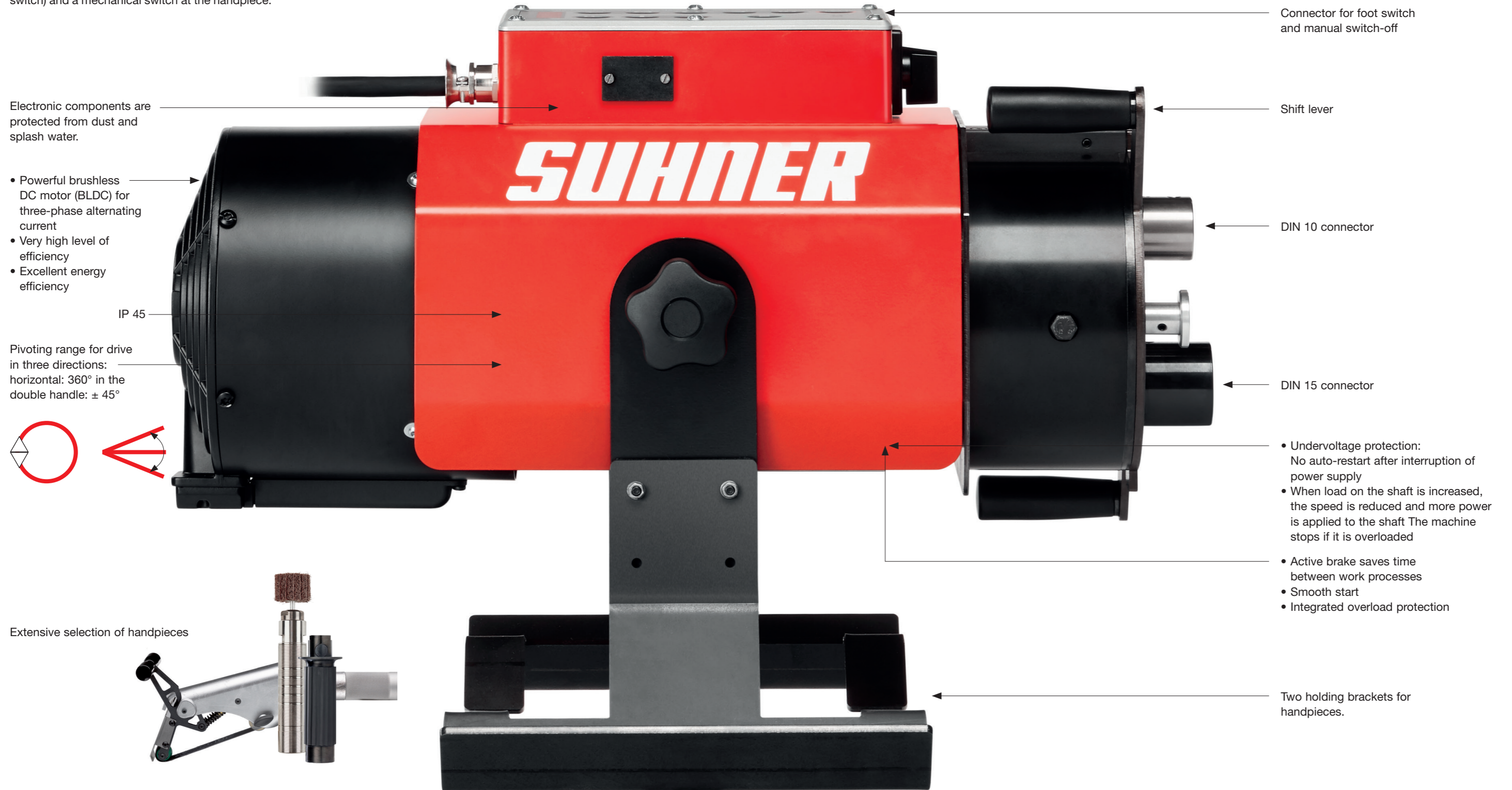
The ROTOMax 4.2 TWIN consists of an electronically controlled DC motor, an operating unit with keyboard and display as well as a unique electronic control unit. It features two mechanical connections for two shafts of different size. The shaft is selected at the transmission, a shift lever at the head will actuate the change. The drive unit uses a sensor to detect which shaft is in operation. The electronic control unit starts the machine up smoothly without any sudden lurch. Switch-off is quick and also works with an active brake, so that the process times are shortened. The external operating controls consist of a foot switch with On/Off function (dead man's switch) and a mechanical switch at the handpiece.



Connection for two shafts – DIN 10 and DIN 15



- It is possible to show the grinding process or the work steps by saving up to 6 different rotational speeds.
- Easy intuitive operation
- Perfect grinding pattern through electronically controlled rotational speed.
- Large LED display to enable the speed to be seen easily
- Rotational speed settings from 500 – 24 300 pm (DIN 10) and 500 – 9 700 rpm (DIN 15)
- Time window of 60 seconds protects against accidental start-up

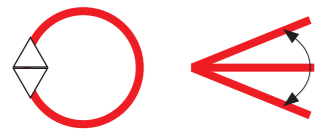


Electronic components are protected from dust and splash water.

- Powerful brushless DC motor (BLDC) for three-phase alternating current
- Very high level of efficiency
- Excellent energy efficiency

IP 45

Pivoting range for drive in three directions:  
horizontal: 360° in the double handle: ± 45°



Connector for foot switch and manual switch-off

Shift lever

DIN 10 connector

DIN 15 connector

- Undervoltage protection: No auto-restart after interruption of power supply
- When load on the shaft is increased, the speed is reduced and more power is applied to the shaft. The machine stops if it is overloaded

- Active brake saves time between work processes
- Smooth start
- Integrated overload protection

Extensive selection of handpieces



Two holding brackets for handpieces.



## One for all – ROTOmax 4.2 TWIN

The ROTOmax 4.2 TWIN is suitable for processing and refining the surface of metal work pieces in multiple shift operations. It is especially useful to manufactures of machines and equipment for the food and pharmaceutical industries, as well as for companies in the kitchen design sector. Whether for grinding, polishing, deburring or separating, the modular and powerful drive unit is useful in many different areas of application.

**Areas of application:** Grinding, separating, brushing, rust removal, polishing. For heavy work in foundries, boiler construction and steelworks, mechanical workshops, and in companies that process stainless steel.



## Functionality

- Thanks to its **modularity** the ROTOmax 4.2 TWIN offers the correct handpiece for every application and allows for almost instant changes to the machine.
- The **five different rotational speeds can be freely programmed**, which reduces errors due to wrong settings, guarantees an even grinding pattern and saves time.
- The **DC motor** guarantees a constant rotational speed even under high load and thereby improves the surface quality. Because it is protected against dust and splash water, it can also be used in demanding environments.
- The operation uses an **intelligent interface** and is simple and intuitive.

## Safety

- The **smooth starting** option protects the material, massively reduces wearing and allows the operation to be ergonomic.
- The **two holding brackets for handpieces** increase their service life, the safety at the workplace and their efficiency.
- The ROTOmax 4.2 TWIN is a **sustainable acquisition**. It only needs very simple maintenance which lengthens its service life and reduces the risk of faults during operation.

## Flexibility

- The **two flexible shaft connectors** shorten process times and allow all process steps to be carried out with a single machine. Thanks to the quick change of transmission levels, the interruptions are very short.
- The generous **pivoting range in three directions** offers significant freedom and does not hinder the movement of the machine in any way.
- The **level of efficiency** of the motor is more than 90 percent, which saves a significant amount of energy compared to conventional motors.

## Performance information at a glance

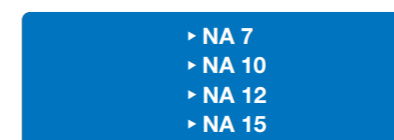
Speed range:	500 – 24 300 rpm (DIN 10)
Speed range:	500 – 9 700 rpm (DIN 15)
Power input:	4000 W
Power output:	3500 W
Mains voltage:	3~400–480 V, 50–60 Hz, 9.5–7.9 A
Protection class:	1
Type of protection:	IP45
Overload protection:	yes
Sound pressure level:	75 dB (A), K=1.5 mdB <sup>(A)</sup>
Pivoting range:	horizontal 360°, vertical ±45°
Weight:	approx 70 kg

## Combination options – the best in its class

One drive unit



Four flexible shaft sizes



A huge choice of handpieces

- ▶ Straight handpieces
- ▶ Angle handpieces (45° / 90°)
- ▶ Belt grinders
- ▶ Power files
- ▶ Angle grinders
- ▶ Quick-release handpieces
- ▶ Tube polishers

# ROTOmax 4.2 TWIN machine with flexible shaft

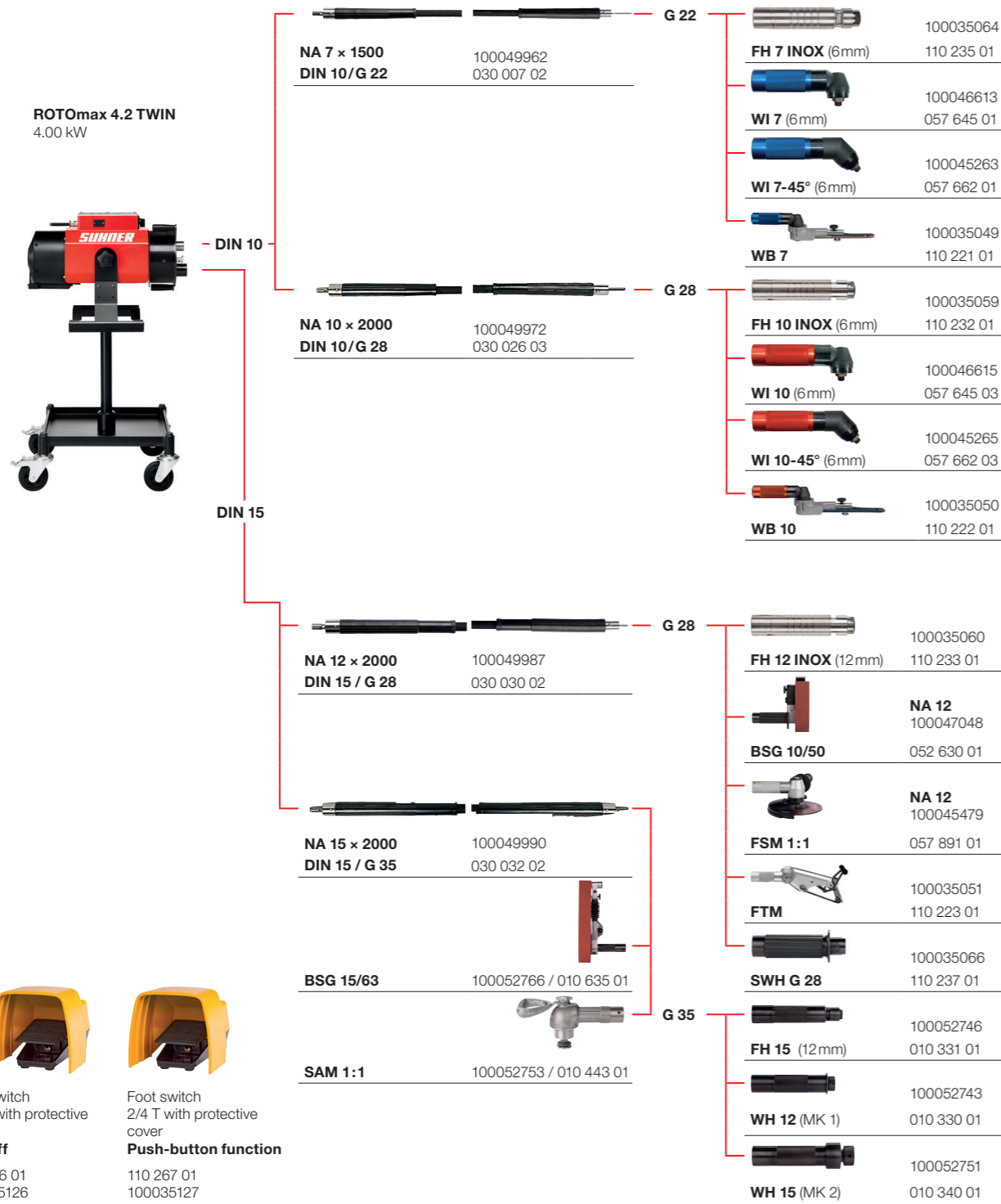
## Specifications

Type	Connector	Mat. No. Design	Voltage	Idle speed rpm	Power input kW	Weight kg
STM	DIN 10	100035148	500-24300 V, 50/60 Hz	500 - 24300	4	70.000
STM	DIN 15	EU/AUS	500-24300 V, 50/60 Hz	500 - 9700		
STM	DIN 10	100031657	500-24300 V, 50/60 Hz	500 - 24 300	4	70.000
STM	DIN 15	USA	500-24300 V, 50/60 Hz	500 - 9700		

Motor for three-phase alternating current    Overload protection    with movable tripod    Protection class IP 45

## Combination options

Type	Mat. no.	Type	Mat. no.	Type	Mat. no.
ID no.	ID no.	ID no.	ID no.	ID no.	ID no.



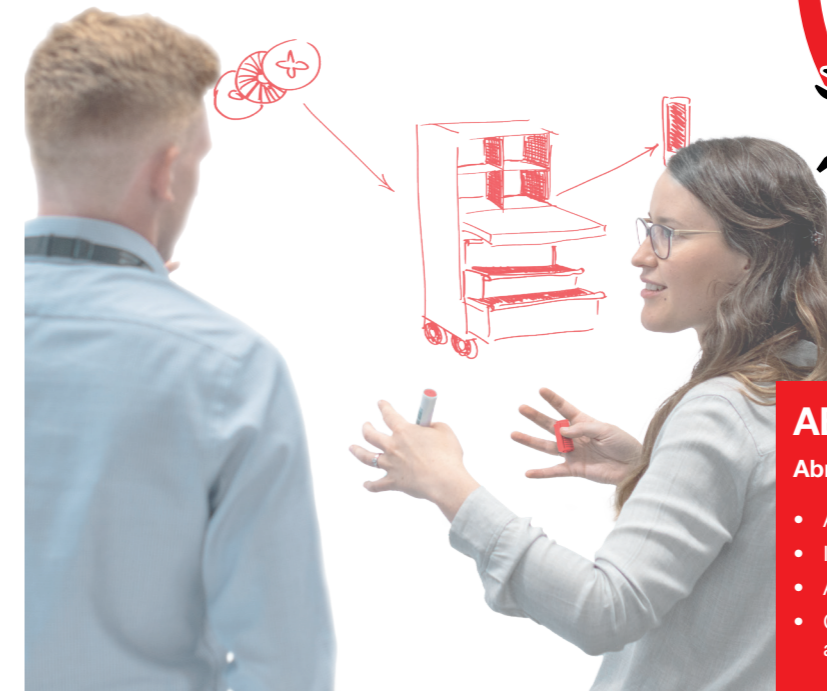
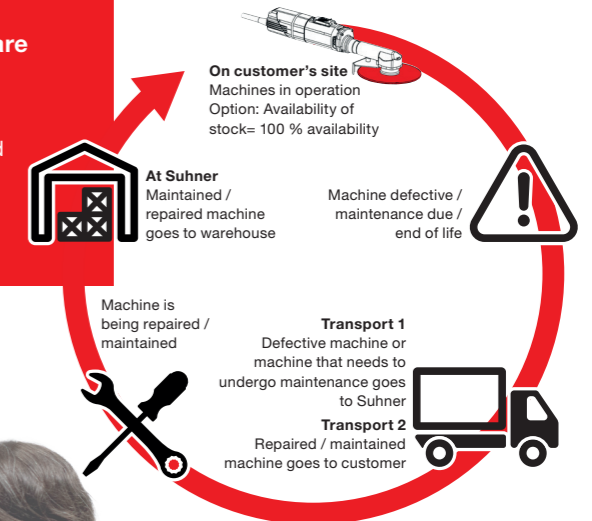
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## **ADVANCED COMPONENT CREATION**

					
	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 Productos Industriales	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

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