

Micro Motor System



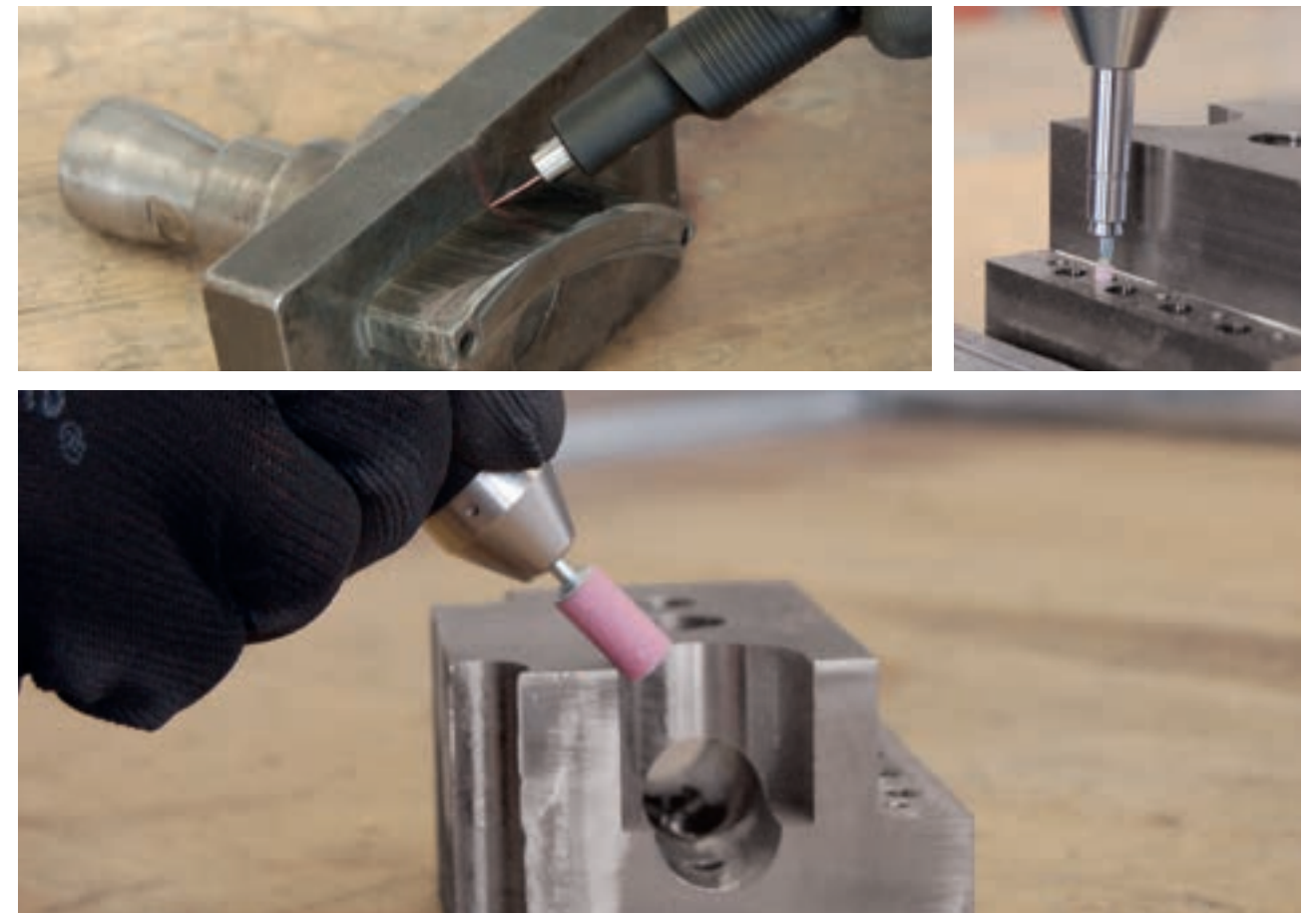
Micro motor system

Power in precision work.

The micro motor system from Suhner distinguishes itself from the crowd with powerful motors and ergonomic operation. Rotation speeds of up to 60 000 min⁻¹ are achieved with almost no noise. The precise concentricity enables you to achieve the cleanest, reproducible results. The control unit has modern features such as touch screen operation, the option to save settings and a rotation speed regulator with tactile resistance.

Facts:

- Mobile grinding, milling and polishing system
- Up to 60 000 rotations per minute
- Higher torque with 30 % more output
- Low level of vibrations
- 50 % More Clamping Force and hence no displacement of the cutters
- Robust control unit with intelligent features and easily visible rotation speed display
- Touch screen operation for glass display
- Rotation speed regulator with tangible resistance
- Motors produce almost no noise



SUNmic 60



- Continuous rotation speed regulation to a max. of 60 000 min-1
- Rotation speed regulation through potentiometer
- Digital display of rotation speed (RPM)
- Connector for 2 BLDC motors and 1 AC motor
- Motor recognition
- Speedy memory button
- Clockwise and anti-clockwise rotation
- Connector for foot pedal

Applications

Grinding, polishing, brushing and deburring in tool making and mold making, aircraft construction, engine construction and reworking of 3D-printed objects.



Technical data

Type	max. Speed	Voltage	Frequency	Plug	ID-No.	Mat.-No.
		V	Hz			
SUNmic 60 Control unit - STG 230 VDE	60 000	90 - 240	50;60	VDE	111 281 01	100 035 501
SUNmic 60 Control unit - STG 230 SEV	60 000	90 - 240	50;60	SEV	111 281 02	100 035 502
SUNmic 60 - Set 230 V VDE	60'000	90 - 240	50;60	VDE	111 275 01	100 035 443
SUNmic 60 - Set 230 V SEV	60'000	90 - 240	50;60	SEV	111 275 02	100 035 444

Standard equipment

Set consists of: Control unit, Micro Motor handpiece type SMH 60-HT XL, Motor cable 1,8 m, Dimensions (b x h x w): 135 x 235 x 200 mm

Possible combinations

	SMH 60-HTD (6mm)	111 279 01 / 100 035 497
	SMH 60-HTD (1/4")	111 279 02 / 100 035 498
	SMH 60-SE (3mm)	111 280 01 / 100 035 499
	SMH 60-SE (1/8")	111 280 02 / 100 035 500
	STG 230 V VDE	111 281 01 / 100 035 501
	STG 230 V SEV	111 281 02 / 100 035 502
	STG 120 V USA	111 282 03 / 100 035 503
	SMH 60-HT (3mm)	111 278 01 / 100 035 495
	SMH 60-HT (1/8")	111 278 02 / 100 035 496
	SMH 60-HT-XL (3mm)	111 277 01 / 100 035 493
	SMH 60-HT-XL (1/8")	111 277 02 / 100 035 494
	SFR	
Foot switch		111 283 01 / 100 035 504

Handpieces with inbuilt micro motors

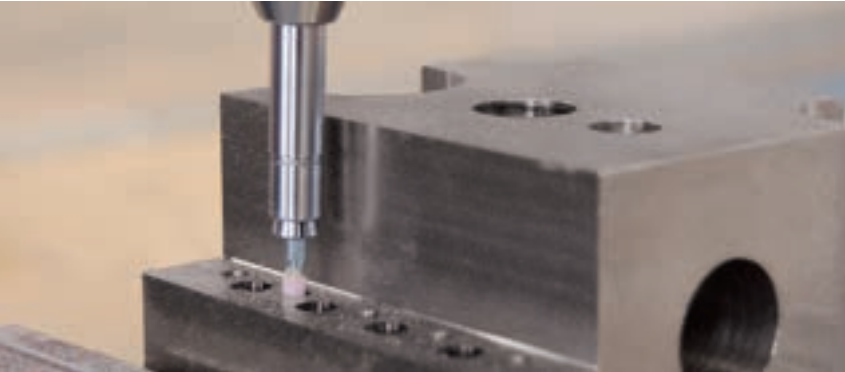
SMH 60-HT-XL



- Higher torque with 30 % more output
- Low level of vibrations
- No displacement of the millers as a result of 50 % more clamping force
- Motors produce almost no noise
- Attachments can be mounted quickly on all handpieces with 3 mm chucks
- Brushless DC Motor BLDC rapid assembly attachments XL axis
- Motor speed max. 50 000 min-1 for attachment-ø larger than 3 mm

Applications

Grinding, polishing, brushing and deburring in tool making and mold making, aircraft construction, engine construction and reworking of 3D-printed objects.



Technical data

Type	max. Speed	Power Watt	Power N/cm	Collet mm	Collet inch	Concentricity	ID-No.	Mat.-No.
	min-1					mm		
SMH 60-HT-XL 3 mm	60 000	280	8.9	3		< +/-0.01mm	111 277 01	100 035 493
SMH 60-HT-XL 1/8"	60 000	280	8.9		1/8	< +/- 0.01mm	111 277 02	100 035 494

Standard equipment

On / off switch
Motor cable 1,8 m

Accessories Collet

	Type	Bore mm	Bore INCH	ID-No.	Mat.-No.	
	SPZ EMA 3 mm	3		111 290 01	100 035 510	1
	SPZ EMA 1/8"		1/8	111 290 02	100 035 511	1
	SPZ EMA 2,35 mm	2.35		111 290 03	100 035 512	1

	Type	ID-No.	Mat.-No.	
	Handpiece holder SHA	111 284 01	100 035 505	1
	Extension cable 2 m SMH 60	111 295 01	100 035 532	1



Handpieces with inbuilt micro motors

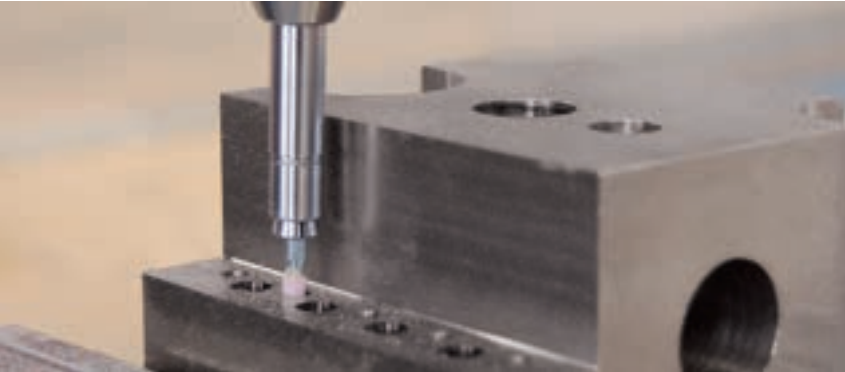
SMH 60-HT



- Higher torque with 30 % more output
- Low level of vibrations
- No displacement of the millers as a result of 50 % more clamping force
- Motors produce almost no noise
- Attachments can be mounted quickly on all handpieces with 3 mm chucks
- Brushless DC Motor BLDC rapid assembly attachments

Applications

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Technical data

Type	max. Speed	Power Watt	Power N/cm	Collet mm	Collet inch	Concentricity	ID-No.	Mat.-No.
	min ⁻¹					mm		
SMH 60-HT 3 mm	60 000	280	8,9	3		< +/- 0.01mm	111 278 01	100 035 495
SMH 60-HT 1/8"	60 000	280	8,9		1/8	< +/- 0.01mm	111 278 02	100 035 496

Standard equipment

On / off switch
Motor cable 1,8 m

Accessories Collet

	Type	Bore mm	Bore INCH	ID-No.	Mat.-No.	
	Collets	SPZ EMA 3 mm	3	111 290 01	100 035 510	1
		SPZ EMA 1/8"	1/8	111 290 02	100 035 511	1
		SPZ EMA 2,35 mm	2.35	111 290 03	100 035 512	1

	Type	ID-No.	Mat.-No.	
	Handpiece holder	SHA	111 284 01	100 035 505 1
	Extension cable 2 m	SMH 60	111 295 01	100 035 532 1



Handpieces with inbuilt micro motors

SMH 60-HTD



- Higher torque with 30 % more output
- Low level of vibrations
- No displacement of the millers as a result of 50 % more clamping force
- Motors produce almost no noise
- Attachments can be mounted quickly on all handpieces with 3 mm chucks
- Brushless DC Motor BLDC rapid assembly attachments

Applications

Grinding, polishing, brushing and deburring in tool making and mold making, aircraft construction, engine construction and reworking of 3D-printed objects.



Technical data

Type	max. Speed	Power Watt	Power N/cm	Collet mm	Collet inch	Concentricity	ID-No.	Mat.-No.
mm								
SMH 60-HTD 6 mm	60 000	280	8,9	6		< +/- 0.01mm	111 279 01	100 035 497
SMH 60-HTD 1/4"	60 000	280	8,9		1/4	< +/- 0.01mm	111 279 02	100 035 498

Standard equipment

On / off switch
Motor cable 1,8 m

Accessories Collet

		Type	Bore mm	Bore INCH	ID-No.	Mat.-No.	
	Collets	SPZ EMB 6 mm	6		111 290 04	100 035 513	1
		SPZ EMB 1/4"		1/4	111 290 05	100 035 514	1
		SPZ EMB 3 mm	3		111 290 06	100 035 515	1
		SPZ EMB 2,35 mm	2.35	1/8	111 290 07	100 035 516	1

		Type	ID-No.	Mat.-No.	
	Handpiece holder	SHA	111 284 01	100 035 505	1
	Extension cable 2 m	SMH 60	111 295 01	100 035 532	1



Handpieces with inbuilt micro motors

SMH 60-SE



- Higher torque with 30 % more output
- Low level of vibrations
- No displacement of the millers as a result of 50 % more clamping force
- Motors produce almost no noise
- Attachments can be mounted quickly on all handpieces with 3 mm chucks
- Brushless DC Motor BLDC rapid assembly attachments

Applications

Grinding, polishing, brushing and deburring in tool making and mold making, aircraft construction, engine construction and reworking of 3D-printed objects.



Technical data

Type	max. Speed	Motor speed	Power Watt	Power N/cm	Collet mm	Collet inch	Concentricity	ID-No.	Mat.-No.
	min ⁻¹	min ⁻¹					mm		
SMH 60-SE 3 mm	50 000	50 000	280	7,8	3		< +/- 0.01mm	111 280 01	100 035 499
SMH 60-SE 1/8"	50 000	50 000	280	7,8		1/8	< +/- 0.01mm	111 280 02	100 035 500

Standard equipment

On / off switch
Motor cable 1,8 m

Accessories Collet

	Type	Bore mm	Bore INCH	ID-No.	Mat.-No.	
	Collets	SPZ EMA 3 mm	3	111 290 01	100 035 510	1
		SPZ EMA 1/8"		111 290 02	100 035 511	1
		SPZ EMA 2,35 mm	2.35	111 290 03	100 035 512	1

	Type	ID-No.	Mat.-No.	
	Handpiece holder	SHA	111 284 01	100 035 505 1
	Extension cable 2 m	SMH 60	111 295 01	100 035 532 1



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Benefit from our extensive process knowledge in grinding and abrasives technology. Find out what's new, more effective or efficient. Try it out on your current projects. Learn how ergonomic tools can increase your productivity.

Notes



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