

Technical brochure	Superfine Models (S-LINE)		Basic Models (G-LINE)		
	- Desktop Units -		- Desktop Units -		
	80 S	120 S-450	50 Classic	80	50I
Quantity liters/hour* (depending on product, up to)*	7.5	27.5	8	17	5
Fineness (depending on product, up to)*	to 5 µm	to 5 µm	to 20 µm	to 10 µm	to 10 µm
Roller diameter mm	80	120	50	80	50
Roller length mm	200	450	150	250	150
Roller speed ratio n1: n2 : n3	9 : 3 : 1	9 : 3 : 1	3.3 : 1.8 : 1	9 : 3 : 1	1 : 3.3 : 1.8
Roller material	Hard chrome-plated steel, aluminum oxide, polished aluminum oxide (Superfinish), silicon carbide tungsten carbide	Hard chrome-plated steel, aluminum oxide, polished aluminum oxide (Superfinish)	Hard chrome-plated steel, aluminum oxide	Hard chrome-plated steel, aluminum oxide	Hard chrome-plated steel, aluminum oxide
Scraper knife material	Steel knife (nickel-plated and hard chrome-plated), plastic, aluminum oxide, zirconium oxide, epoxy resin (glass fiber reinforced)	Steel knife (nickel-plated and hard chrome-plated), plastic, aluminum oxide, epoxy resin (glass fiber reinforced)	Plastic	Steel knife (nickel-plated and hard chrome-plated), plastic, aluminum oxide, epoxy resin (glass fiber reinforced)	Steel knife (nickel-plated and hard chrome-plated), plastic Aluminum oxide, epoxy resin (glass fiber reinforced)
Drive power: 1-speed motor kW	-	-	0.12	-	-
Drive power: 2-speed motor kW	-	-	-	0.3 / 0.45	-
Frequency converter (electronic) Speed control** motor output kW	1.1	1.5	-	-	0.23
Rollers that can be cooled and heated up to 60 °C	Standard	Optional	-	Optional (for steel rollers)only	-
Solvent dispenser	Optional	Optional	-	Optional	-
Dimensions mm (width x depth x height, with scraper system and hopper)	610x550x550	1000x650x670	320x280x320	650x550x530	370x270x290
Weight kg	Approx. 80	Approx. 195	Approx. 13	Approx. 75	Approx. 25
Power supply***	3 x 400V/50 Hz	3 x 400V/50 Hz	1 x 230V/50 Hz	3 x 400V/50 Hz	1 x 230V/50 Hz

*average, depending on the product; **to process highly viscous and tougher products; ***special voltages available.; ****with pressure cooling, 160 mm wider

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Technical brochure	Electronic Models (E-LINE)			
	-Desktop Units -		- Floor Mounted Units -	
	80 E	120 E-250	120 EH-250	120 EH-450
Quantity liters/hour* (depending on product, up to)*	7.5	14	14	27.5
Fineness (depending on product, up to)*	< 5 µm	< 5 µm	< 5 µm	< 5 µm
Roller diameter mm	80	120	120	120
Roller length mm	200	250	250	450
Roller speed ratio n1: n2 : n3	9 : 3 : 1	9 : 3 : 1	9 : 3 : 1	9 : 3 : 1
Roller material	Hard chrome-plated steel, aluminum oxide, polished aluminum oxide (Superfinish), silicon carbide, tungsten carbide	Hard chrome-plated steel, aluminum oxide, aluminum oxide polished (Superfinish), silicon carbide, tungsten carbide	Hard chrome-plated steel, aluminum oxide, polished aluminum oxide (Superfinish), silicon carbide, tungsten carbide	Hard chrome-plated steel, aluminum oxide, aluminum oxide polished (Superfinish) Silicon carbide, tungsten carbide
Scraper knife material	Steel knife (nickel-plated and hard chrome-plated), plastic, aluminum oxide, zirconium oxide, epoxy resin (glass fiber reinforced)	Steel knife (nickel-plated and hard chrome-plated), plastic, aluminum oxide, zirconium oxide, epoxy resin (glass fiber reinforced)	Steel knife (nickel-plated and hard chrome-plated), plastic, aluminum oxide, zirconium oxide, epoxy resin (glass fiber reinforced)	Steel knife (nickel-plated and hard chrome-plated), plastic, aluminum oxide, zirconium oxide, epoxy resin (glass fiber reinforced)
Drive power: 1-speed motor kW	-	-	-	-
Drive power: 2-speed motor kW	-	-	-	-
Frequency converter (electronic) Speed control** motor output kW	1.1	1.5	3.0	3.0
Rollers that can be cooled and heated up to 60 °C	Standard	Standard	Standard	Standard
Solvent dispenser	Standard	Standard	Standard	Standard
Dimensions mm (width x depth x height, with scraper system and hopper)	720 x 550 x 550	870**** X 650 x740	870**** X 650 x1320	1070**** X 950 x1320
Weight kg	Approx. 90	Approx. 250	Approx. 380	Approx. 430
Power supply***	3 x 400V/50 Hz	3 x 400V/50 Hz	3 x 400V/50 Hz	3 x 400V/50 Hz

*average, depending on the product; **to process highly viscous and tougher products; ***special voltages available.; ****with pressure cooling, 160 mm wider

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G-LINE 50 CLASSIC



HIGHLIGHTS

- › Particle fineness to below 20 μm
- › Precise setting of the roller gap, no dry running possible
- › Up to 8 l/h throughput with a gap width of 20 μm
- › Chemically inert porcelain rollers
- › Mechanical overload protection
- › Extremely space-saving desktop model



The EXAKT 50 Classic guarantees the finest results in pharmaceutical ointment production. The equipment can be used for producing suspensions, emulsions and creams. Also ointments that contain large crystalline particles can easily be processed with the EXAKT 50 Classic. With more than 30,000 systems installed around the world, the EXAKT 50 Classic is the best known and most accepted pharmaceutical ointment mill.

SUBJECT

G-LINE 50 CLASSIC

Dimension

Max. base area	(320 x 280) mm
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Max. height (incl. option)	320 mm
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Weight, basic unit	Approx. 12 kg
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Heating:

Ambient temperature	Max. 40 °C
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Electrical connection

Variant 1: Voltage / Frequency	1 x 100 – 110 V, 50 – 60 Hz
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Power	120 W
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Max. power consumption	1.95 – 2.15 A
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Fuse	10 A
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Variant 2: Voltage / Frequency	1 x 220 – 240 V, 50 – 60 Hz
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Power	120 W
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Max. power consumption	1.0 – 1.5 A
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Fuse	10 A
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G-LINE 50 I



HIGHLIGHTS

- › Roller gap to 10 µm
- › Precise setting of the roller gap, no dry running possible
- › Up to 5 l/h throughput with a gap width of 10 µm
- › Continuously adjustable circumferential speed of the rollers
- › Interchangeable roller set
- › Ceramic or hardened chrome rollers
- › Precise one-hand adjustment, continuous and with scale
- › Self-adjusting scraper knife
- › Overload protection

The EXAKT 50 I Three Roll Mill is an especially compact, versatile and easy-to-operate unit for applications where excellent dispersing is essential. Working with separate roller sets is particularly effective in regard to fast cleaning, the avoidance of cross-contamination and downtimes due to changing the product. The special properties and functionalities make the EXAKT 50 I indispensable for research, development and training.



SUBJECT

G-LINE 50 I

Dimension

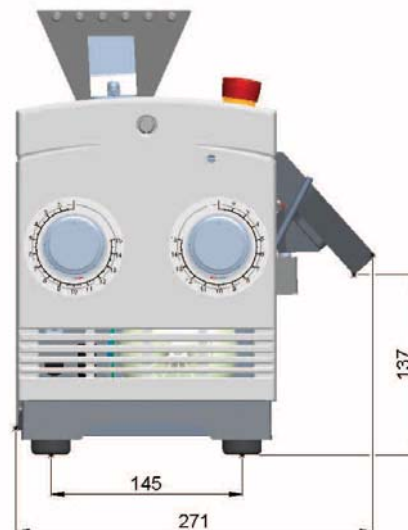
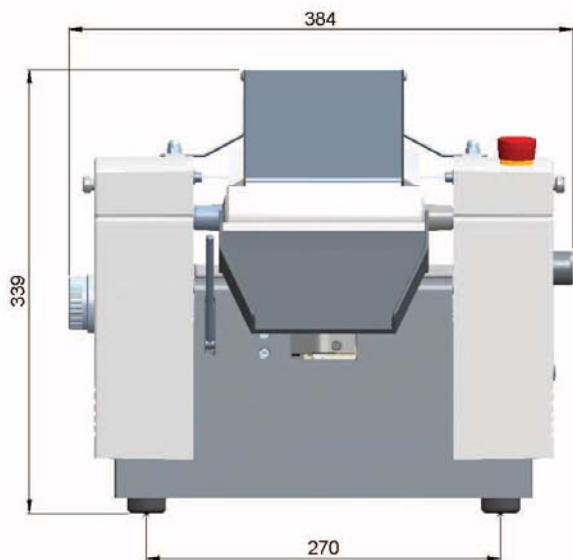
Max. base area	(384 x 271) mm
Max. height (incl. option)	339 mm
Weight, basic unit	12.3 kg
Weight, roller unit	6.8 – 11.3 kg

Heating:

Ambient temperature	Max. 40 °C
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Electrical connection

Voltage / Frequency	1 x 100 – 240 V, 50 – 60 Hz
Power	220 – 240 W
Max. power consumption	1.0 – 2.0 A
Fuse	10 A



G-LINE 80



HIGHLIGHTS

- › Roller gap to 10 µm
- › Precise setting of the roller gap, no dry running possible
- › Up to 17 l/h throughput with a gap width of 10 µm
- › Ceramic or hardened chrome rollers
- › Higher motor power for highly viscose materials
- › Precise one-hand adjustment, continuous and with scale
- › High safety standard

The EXAKT 80 provides higher productivity and more power with the same precision and functionality as the EXAKT 50 I. This makes it the ideal equipment for a scale-up if higher production volumes are required. The equipment is often used by customers in the ceramic or glass industry, in the preparation of screen printing pastes or existing color bases as well as in pharmacy or cosmetics, for example. The EXAKT 80 is very simple to operate, reliable, stable and durable. It is a worldwide proven three roll mill »Made in Germany« with an exceptional price/performance ratio.



SUBJECT

G-LINE 80

Dimension

Max. base area	(677 x 417) mm
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Max. height (incl. option)	505 mm
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Weight, basic unit	Approx. 70 kg
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Heating

Water connection – supply	LW 10 mm
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Water connection – return	LW 13 mm
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Heating circuit, pressure-less	4 bar
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Supply temperature	Max. 55 °C
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Ambient temperature	Max. 40 °C
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Electrical connection

Variant 1: Voltage / Frequency	3 x 200 – 220 V, 50 – 60 Hz
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Power	450 W
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Max. power consumption	2.3 A
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Fuse	15 A
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Variant 2: Voltage / Frequency	3 x 380 – 420 V, 50 Hz
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Power	450 W
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Max. power consumption	1.1 A
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Fuse	10 A
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S-LINE 80S



HIGHLIGHTS

- › Roller gap to 5 µm
- › Precise setting of the roller gap, no dry running possible
- › Up to 7.5 l/h throughput with a gap width of 5 µm
- › Digitally adjustable circumferential speed of the rollers
- › Ceramic (aluminum oxide, silicon carbide) or hardened chrome rollers
- › Precise one-hand adjustment, continuous and with scale
- › High safety standard

The EXAKT 80S Three Roll Mill is particularly suited for processing high viscosity materials. Equipped with a high-performance drive, combined with a very stable machine design as well as a continuous speed controller with digital display of the speed, it is possible to achieve particle filter finenesses of less than 5 µm. With increasing viscosity, higher demand on the capacity and quality of the product to be processed and a higher energy input, a constant processing temperature is indispensable. This demand is also fulfilled at higher loads by the EXAKT 80S at all times. An excellent adaptation to the product to be processed also allows alternative roller materials in different hardness grades, chemically inert or especially easy to clean.



SUBJECT

S-LINE 80S

Dimension

Max. base area	(627 x 417) mm
Max. height (incl. option)	543 mm
Weight, basic unit	Approx. 70 kg

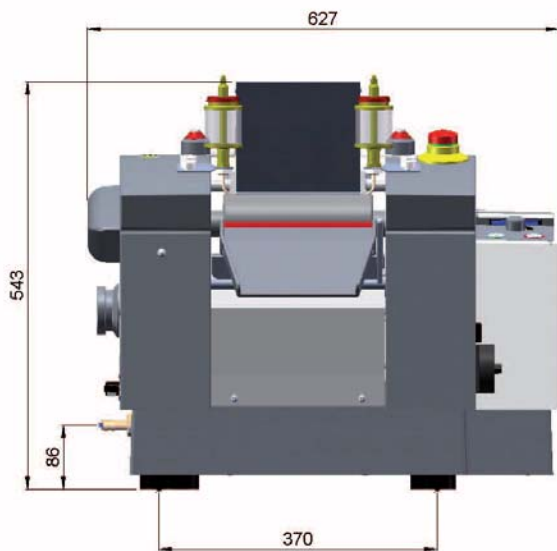
Heating:

Water connection – supply	LW 10 mm
Water connection – return	LW 13 mm
Heating circuit, pressure-less	4 bar
Supply temperature	Max. 55 °C
Ambient temperature	Max. 40 °C

Electrical connection

Variant 1: Voltage / Frequency	3 x 200 – 220 V, 50 – 60 Hz
Power	1100 W
Max. power consumption	4.9 A
Fuse	15 A

Variant 2: Voltage / Frequency	3 x 380 – 420 V, 50 Hz
Power	1100 W
Max. power consumption	2.6 A
Fuse	10 A



S-LINE 120S - 450



HIGHLIGHTS

- › Roller gap to 5 µm
- › Precise setting of the roller gap, no dry running possible
- › Up to 27.5 l/h throughput with a gap width of 5 µm
- › Digitally adjustable circumferential speed of the rollers
- › Ceramic (aluminum oxide) or hardened chrome rollers
- › Precise one-hand adjustment, continuous and with scale
- › High safety standard

Continuously good results at particle finenesses down to 5 µm and stable production conditions - the EXAKT 120S-450 has proven its worth wherever throughput volume and simple handling are required. The process conditions are very easily adapted to the product to be processed. A continuously adjustable processing speed, excellent temperature control and alternative roller materials provide the best prerequisites for a multitude of material requirements. The compact desktop model is found everywhere in production. The solid processing of the machine provides absolutely parallel, manually adjusted roller gaps for uniform processing.



SUBJECT

S-LINE 120S - 450

Dimension

Max. base area	(1000 x 650) mm
Max. height (incl. option)	670 mm
Weight, basic unit	Approx. 180 kg

Heating:

Water connection – supply	LW 10 mm
Water connection – return	LW 20 mm
Heating circuit, pressure-less	4 bar
Supply temperature	Max. 55 °C
Ambient temperature	Max. 40 °C

Electrical connection

Variant 1: Voltage / Frequency	1 x 220 – 240 V, 50 – 60 Hz
Power	1500 W
Max. power consumption	6.4 A
Fuse	15 A

Variant 2: Voltage / Frequency	1 x 200 – 210 V, 50 – 60 Hz
Power	1500 W
Max. power consumption	6.4 A
Fuse	16 A
