



Stand-alone extruder KE 19/25

ID no. 8 374 22.001

3 * 400 V, 50/60 Hz



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Agencies all over the world



Stand-alone extruder KE 19/25

Ekstruder wolnostojący

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Dies and Die Heads

Die Heads

Versatile die heads

The assembly and replacement of die heads on the extruder is an easy and quick affair: they are attached to the barrel with a ring nut. The die heads are made of corrosion-resistant steel and can be dismantled for cleaning. Various die heads are available for special versions.



Round Die Head

This standard die head is outfitted with a heating sleeve. It can generally be used with screw-in dies with a die diameter of 1 to 7 mm, which can be used depending on the product. The screw-in dies allow products from the categories listed to be generated.



The round die head is the only die head that can be outfitted with a cutting mechanism.



Modular Cooling

The Brabender Modular Cooling Die is specifically designed for high moisture texturization of vegetable proteins on a lab scale. Its flexible design allows you to alter the product size in terms of width and height.

Learn more in the cooling die brochure.



Noodle Die Head

The noodle die head is primarily used for producing noodles. Special feature: the head can be cooled both with air or with water.



Flat Die Head

The flat die head allows products such as expanded flatbread, confectionery products and indirectly-expanded products to be produced.



Hollow Die Head

The hollow die head allows formed products such as macaroni to be produced.

Dies

Dies for the Round Die Head



Rice die



Round die head inserts

Dies for the Noodle Die Head



Dies for noodle die head



Extrudate

7 TECHNICAL DATA

Design	Table-top unit	Option: mobile support*
Barrel	Length	25 D = 475 mm, grooved
	Material:	Special steel, nitrided bore
	Operating temperature:	max. 450°C
	Melt pressure:	max. 700 bar
Heating/cooling	1 * feed zone 1 * heating zone 2 * heatg./coolg. zones	water cooled electric heating (1500 W) electric heating (1500 W), air cooling
	<u>Temperature control:</u> - Temperature recording: - Temperature presetting and control: - Display:	with control thermocouples (1/zone) manually or via CAN-Bus in the software* at the control and display unit
Screws*	Number:	1
	Material:	highly wear-resistant special steel, chrome plated, screw flights hardened
	Diameter:	19 mm
	Length:	25 D
Drive	Motor:	2.4-kW servo motor
	Max. driving torque:	100 Nm
	Speed range:	0.2 - 250 min ⁻¹
	Speed deviation:	0.01 % through digital feedback
Mains supply	Mains connection:	3 * 400 V, 50/60 Hz + N + PE, 32 A
	Rated current:	19 A
Dimensions and weight	Dimensions (L * B * H) (with screw feeder*, without control unit* and support*, without die head*):	
	- without support*: - with mobile support*:	approx. 1005 mm * 440 mm * 970 mm approx. 1005 mm * 440 mm * 1400 mm
	Weight:	
	- without support*: - with mobile support*:	120 kg 156 kg

Environmental conditions

- **Storage:**

Temperature
relative humidity

- 20°C ... + 55°C

5 ... 95 %

without condensation

The a.m. max. values for temperature and relative humidity must not appear at the same time

- **Operation:**

Temperature
relative humidity

+ 5°C ... + 40°C

5 ... 85 %

without condensation

The a.m. max. values for temperature and relative humidity must not appear at the same time

7.1 Noise measurement

Noise measurement was made under normal operating conditions within the speed range of the Brabender® Plastograph® EC Plus at a distance of approximately 1 m and at a height of approximately 1.6 m.

The equivalent continuous sound pressure level measured is

$$L_{eq} < 70 \text{ dB(A)}$$

7 TECHNICAL DATA

Dane techniczne

Design <i>Konstrukcja</i>	Table-top unit <i>Wonlo stojący na blacie</i>	Option: mobile support* <i>Opcja: podstawa mobilna</i>
Barrel <i>Beczka</i>	Length <i>długość</i>	25 D = 475 mm, grooved <i>gwintowana</i>
	Material: <i>materiał:</i>	Special steel, nitrided bore <i>stal specjalna, otwory zaazotowane</i>
	Operating temperature:	max. 450°C, <i>temperatura robocza</i>
	Melt pressure: <i>Ciśnienie ekstrudatu</i>	max. 700 bar
	Heating/cooling <i>ogrzewanie/chłodzenie</i> Zone = sekcja	water cooled, <i>chłodzona wodą</i> electric heating (1500 W), <i>ogrzewanie elektryczne</i> electric heating (1500 W), air cooling <i>ogrzewanie elektryczne, chłodzenie powietrzem</i> with control thermocouples (1/zone) <i>za pomocą termopar kontrolnych(1/sekcja)</i> manually or via CAN-Bus in the software* <i>ręcznie lub za pomocą programu CAN-Bus</i> at the control and display unit <i>na jednostce kontrolnej z wyświetlaczem</i>
Screws* <i>ślimaki</i>	Number: <i>Ilość</i>	1
	Material: <i>Materiał</i>	highly wear-resistant special steel, chrome plated, screw flights hardened <i>stal specjalna, chromowana o wysokiej odporności, z utwardzanymi zgarniakami</i>
	Diameter: <i>średnica</i>	19 mm
	Length: <i>długość</i>	25 D
Drive <i>Napęd</i>	Motor: <i>silnik</i>	2.4-kW servo motor
	Max. driving torque:	100 Nm <i>maksymalny moment</i>
	Speed range: <i>zakres obrotów</i>	0.2 - 250 min ⁻¹
	Speed deviation: <i>odchyłka obrotów</i>	0.01 % through digital feedback <i>poprzez cyfrową informację zwrotną</i>
Mains supply <i>zasilanie</i>	Mains connection:	3 * 400 V, 50/60 Hz + N + PE, 32 A
	Rated current: <i>pobór prądu, typowy</i>	19 A
Dimensions and weight <i>wymiary i masy (długość* szerokość* wysokość*)</i> <i>(z dozownikiem ślimakowym, bez kontrolera, podstawy oraz głowicy)</i> <i>bez podstawy</i> <i>z podstawą mobilną</i>	Dimensions (L * B * H) (with screw feeder*, without control unit* and support*, without die head*): • without support*: • with mobile support*:	approx (ok.). 1005 mm * 440 mm * 970 mm approx (ok.). 1005 mm * 440 mm * 1400 mm
	Weight: <i>masa</i> • without support*: <i>bez podstawy</i> • with mobile support*:	120 kg 156 kg

Environmental conditions*Warunki środowiskowe*

• Storage: <i>przechowywanie</i> Temperature relative humidity <i>temperatura i wilgotność względna</i>	- 20°C ... + 55°C 5 ... 95 % without condensation <i>bez kondensacji</i> The a.m. max. values for temperature and relative humidity must not appear at the same time. <i>powyższe, maksymalne wartości temperatury i wilgotności względnej nie mogą wystąpić w tym samym czasie</i>
• Operation: <i>eksploatacja</i> Temperature relative humidity <i>temperatura i wilgotność względna</i>	+ 5°C ... + 40°C 5 ... 85 % without condensation <i>bez kondensacji</i> The a.m. max. values for temperature and relative humidity must not appear at the same time <i>powyższe, maksymalne wartości temperatury i wilgotności względnej nie mogą wystąpić w tym samym czasie</i>

7.1 Noise measurement *pomiar hałasu*

Noise measurement was made under normal operating conditions within the speed range of the Brabender® Plastograph® EC Plus at a distance of approximately 1 m and at a height of approximately 1.6 m.

Pomiaru hałasu dokonano w normalnych warunkach eksploatacyjnych w zakresie obrotów BrabenderPlastograph EC Plus w odległości ok. 1 m i wysokości 1.6m

The equivalent continuous sound pressure level measured is
ekwiwalentne zmierzony ciągły poziom ciśnienia akustycznego wyniósł

$$L_{eq} < 70 \text{ dB(A)}$$