



Powder coatings are offered in a wide range of colors and effects. They can be matt, glossy, silk matt or have a textured surface. Powder coatings are prepared in a compounding machinery in the solid phase by medium-intensity premixing the weighed-in components including base polymer, additives, pigments and fillers. This mixture is fed in the Kneader and compounded in the viscous melting phase.

Application

- High gloss or matt finish
- Metallic effects
- Texture or sandpaper finish
- Clear coat

Compounding requirements

- Short changeover times
- Low specific energy input
- Particle integrity, especially for structured and matt finish
- Temperature control

BUSS Technology

Strengths

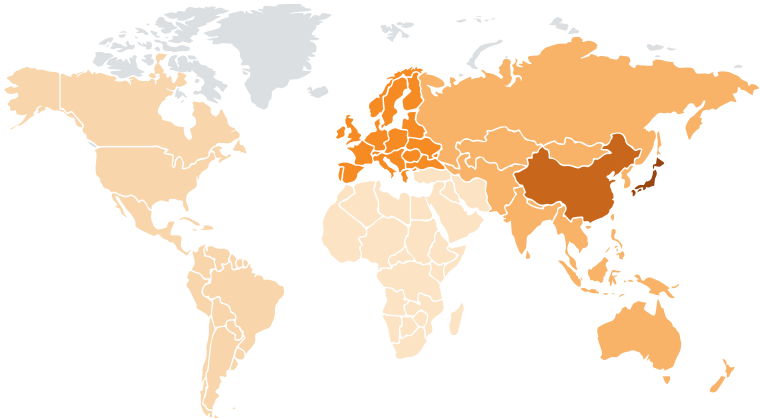
- + Precise temperature control
- + Extended process length
- + Wide range of formulations processed with one machine set-up
- + Highly wear-resistant materials



Benefits

- ✓ High production quality and volume
- ✓ Easy inspection and cleaning
- ✓ Maximized plant availability
- ✓ Low variety of elements reducing spare parts and operating cost
- ✓ Robust, long lasting design

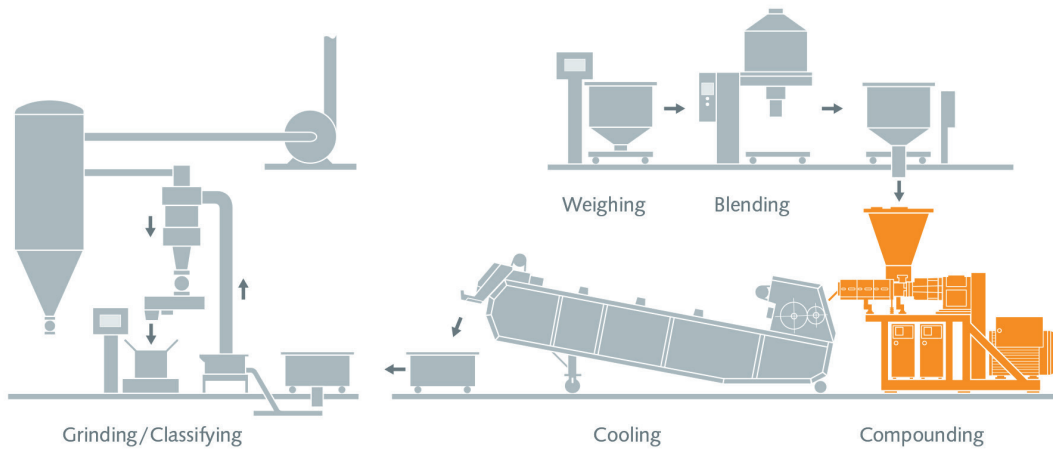
BUSS Kneaders for powder coatings around the world



Japan	> 100
China	> 50
Europe	> 400
Asia+Russia	> 100
Americas	> 100
MEA	> 50



Typical plant layout for powder coatings



BUSS PCS Kneader Technical Data

PCS Kneader	Machine Data					Throughput	Feeding device			
	Process length	Screw diameter	Screw speed max.	Heating capacity	Drive rating max.	rates up to ¹	Type	Hopper volume	Side feeder screw size	Drive rating
PCS 30	11 or 17 L/D	30 mm	500 rpm	6 kW	5.5 kW	300 g/h sampling to 40 kg/h	Inlet hopper ²	1 litre	-	-
PCS 46	11 or 15 L/D	46 mm	650 rpm	2 x 9 kW	30 kW	250 kg/h	Inlet hopper ²	3 litres	-	-
PCS 70	11 or 15 L/D	70 mm	650 rpm	2 x 12 kW	65 kW	700 kg/h	Side feeder	50 litres	DDSR 40	1.1 kW
PCS 100	11 or 15 L/D	100 mm	650 rpm	2 x 12 kW	110 kW	1500 kg/h	Side feeder	130 litres	DDSR 60	2.2 kW
PCS 140	8 - 15 L/D	140 mm	500 rpm	2 x 18 kW	280 kW	3000 kg/h	Side feeder	200 litres	SF 80	5.5 kW

¹ Output will vary according to raw materials, specific formulation, and percentage of filler load.

² Optional inlet screw available



More info!

<https://busscorp.com/industries/powder-coatings/>

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