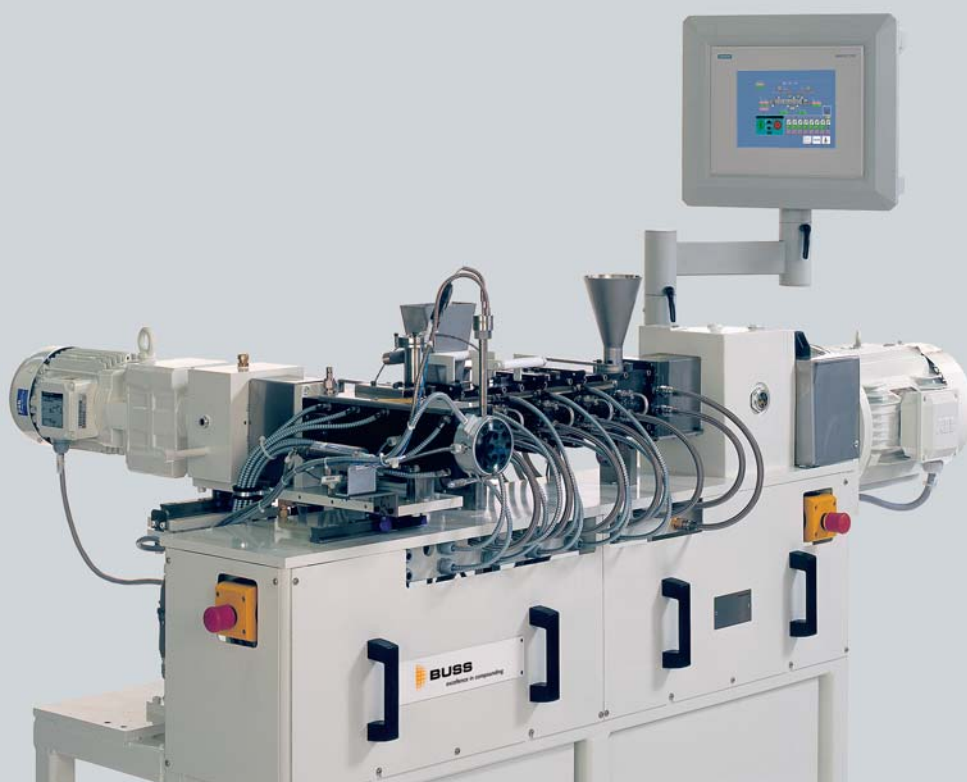


Laboratory Kneader MKS 30

The BUSS laboratory Kneader MKS 30 is a versatile, compact small scale compounding line for research, development and customer sampling. It is especially suitable for the development of highly filled and heat and shear sensitive compounds. This economical, user-friendly laboratory compounder offers similar process characteristics as production scale BUSS Kneader, with outputs ranging from 300 gram samples up to 20–25 kg/h. Based on its process scale-up capabilities it qualifies as a universal laboratory compounder offering a high grade of efficiency and flexibility.



Features and specific advantages

- Representative data from laboratory samples
- Throughput rates up to 25 kg per hour
- Split barrel design for easy access and cleaning
- Accurate temperature control
- Two stage machine
 - Various options to optimize process parameters
 - split feed (top or side feeder)
 - segmented screw
 - variable screw speed
 - independent heating/cooling zones



Technical Data

Laboratory Kneader MKS 30

Process length	11, 14, 17, 20 L/D
Screw diameter	30 mm
Screw speed	10 to 500 rpm
Drive capacity	7.5 kw

Discharge Screw

Diameter	40 mm
Length	6 L/D
Drive capacity	1.5 kw

Side Feeder (optional)

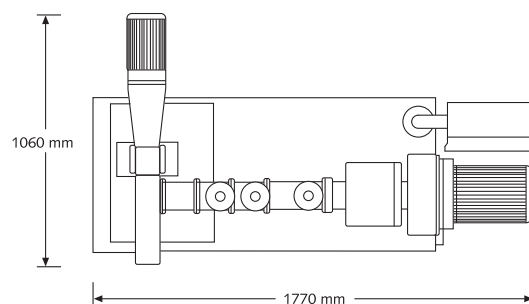
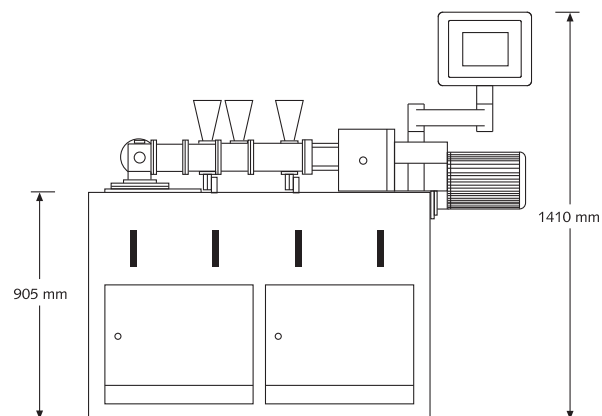
Screw diameters	20 mm
Drive capacity	0.25 kw

Temperature Control

Temperature range	up to 400 °C
Heating system	electric
Heating capacity	2.4 to 4.8 kw
Cooling system	air

Options

- Dosing equipment
- Additional inlet hoppers
- Side Feeder
- Water bath
- Strand cutter
- Die face cutting



MKS 30 Special Offer

Item	Qty	Object		
1.	3	Inlet hopper IH 30		
2.	1	BUSS Laboratory Kneader MKS 30-20 L/D <ul style="list-style-type: none"> • 30 mm oscillating mixing screw design with 20 L/D processing length • AC gear motor, 7.5 kW (10 HP) with variable frequency drive • Segmented screw assembly, screw speed up 500 rpm • Clam shell barrel design • Three (3) rows of kneading pins offset at 120° • Replaceable restriction ring and guiding sections • Barrel electrically heated up to 320°C and air cooled • Cooling manifold mounted on common base frame • Injection nozzle for liquids 		
3.	1	Discharge Extruder MDS 40 <ul style="list-style-type: none"> • 40 mm diameter screw with 6 L/D processing length • Directly flanged to Laboratory Kneader in cross head configuration • Electrically heated air-cooled barrel • Barrel mounted on gibs and ways for easy removal • AC gear motor, 1.5 kW (2 HP) variable frequency drive • Screw speed up to 100 rpm • Strand die, electrically heated 		
4.	1	BUSS LAB Control <ul style="list-style-type: none"> • Operator panel, mounted on the machine • PLC Simatic S7-300 		
Price of complete set, ex works			CHF	240,000

Optional Items

Item	Qty	Object		
5.	1	Side Feeder SF 20 <ul style="list-style-type: none"> • 20mm twin screw side feeder, screw speed 175 rpm • AC Motor, 0.25 kW (.35 HP) fixed speed • Sliding carriage assembly mounted on Kneader base 		
Price of set			CHF	19,000
6.	1	Degassing dome		
Price			CHF	1,500
7.	1	Melt pressure/temperature transducer with readout		
Price			CHF	2,000
8.	1	Strand pelletizer with water bath and air stripper		
Price			CHF	22,000
9.	1	Degassing pump		
Price			CHF	4,000

