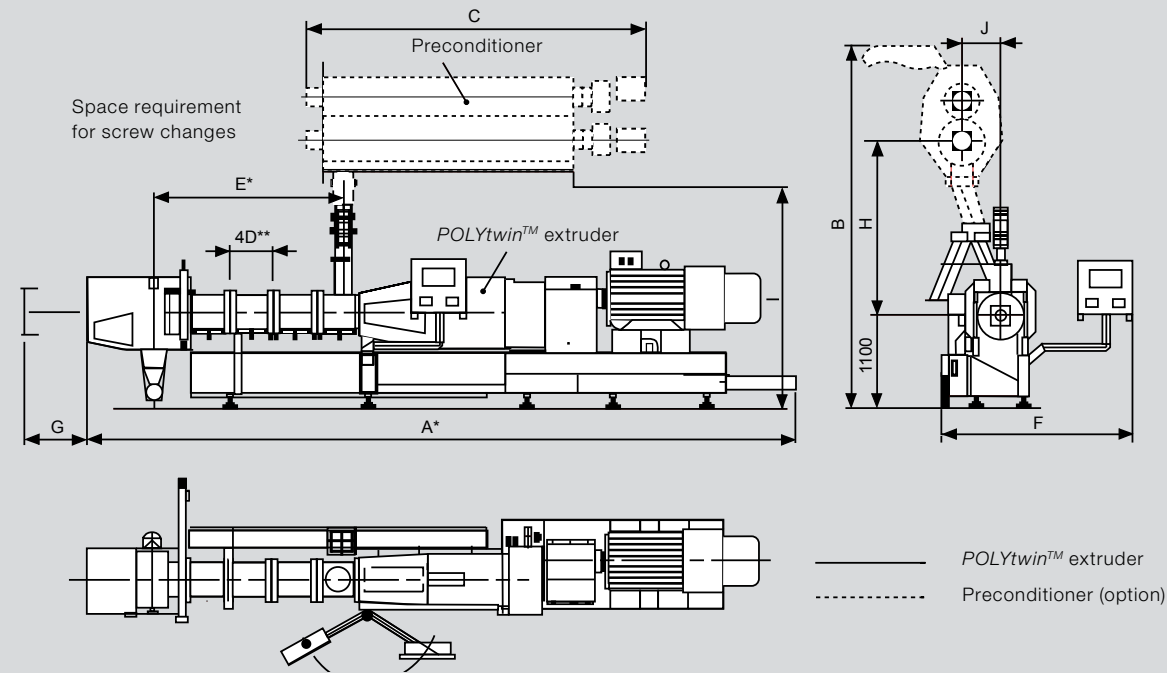


Technical data.



A Bühler extruder matched to every specific requirement

Type size 20D POLYtwin™ extruder Preconditioner (option)	Extruder screw diameter	Throughput dependent upon product	Maximum electrical power
POLYtwin™ 42 / Preconditioner 10	42 mm	50 – 450 kg/h	– 110 kW
POLYtwin™ 62 / Preconditioner 22	62 mm	150 – 1400 kg/h	– 200 kW
POLYtwin™ 93 / Preconditioner 48	93 mm	500 – 4500 kg/h	– 630 kW
POLYtwin™ 125 / Preconditioner 100	125 mm	1000 – 8000 kg/h	– 710 kW
POLYtwin™ 175 / Preconditioner 160	175 mm	2000 – 18,000 kg/h	– 900 kW

Type size 20D POLYtwin™ extruder Preconditioner (option)	Dimensions for sketch in mm									
	A*	B	C	4D**	E*	F	G	H	I	J
POLYtwin™ 42 / Preconditioner 10	4464	2920	2312	168	1010	1890	750	1215	1990	285
POLYtwin™ 62 / Preconditioner 22	6260	3315	2741	248	1360	1990	925	1515	2195	335
POLYtwin™ 93 / Preconditioner 48	7910	3710	3547	372	2045	2090	1410	1665	2310	400
POLYtwin™ 125 / Preconditioner 100	9055	4230	4239	500	2690	2220	1870	2070	2560	450
POLYtwin™ 175 / Preconditioner 160	8875	4210	5453	700	3690	2220	3000	2065	2515	450

Dimensions * The dimensional data A and E refer to 20D machines
 ** Length of barrel element = 4D

ES 55018 en 0209 3000 DF

Twin-Screw Extruder.



POLYtwin™

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POLYtwin™ Twin-Screw Extruder.

Powerful, fast and flexible.

Twin-screw extruder series:

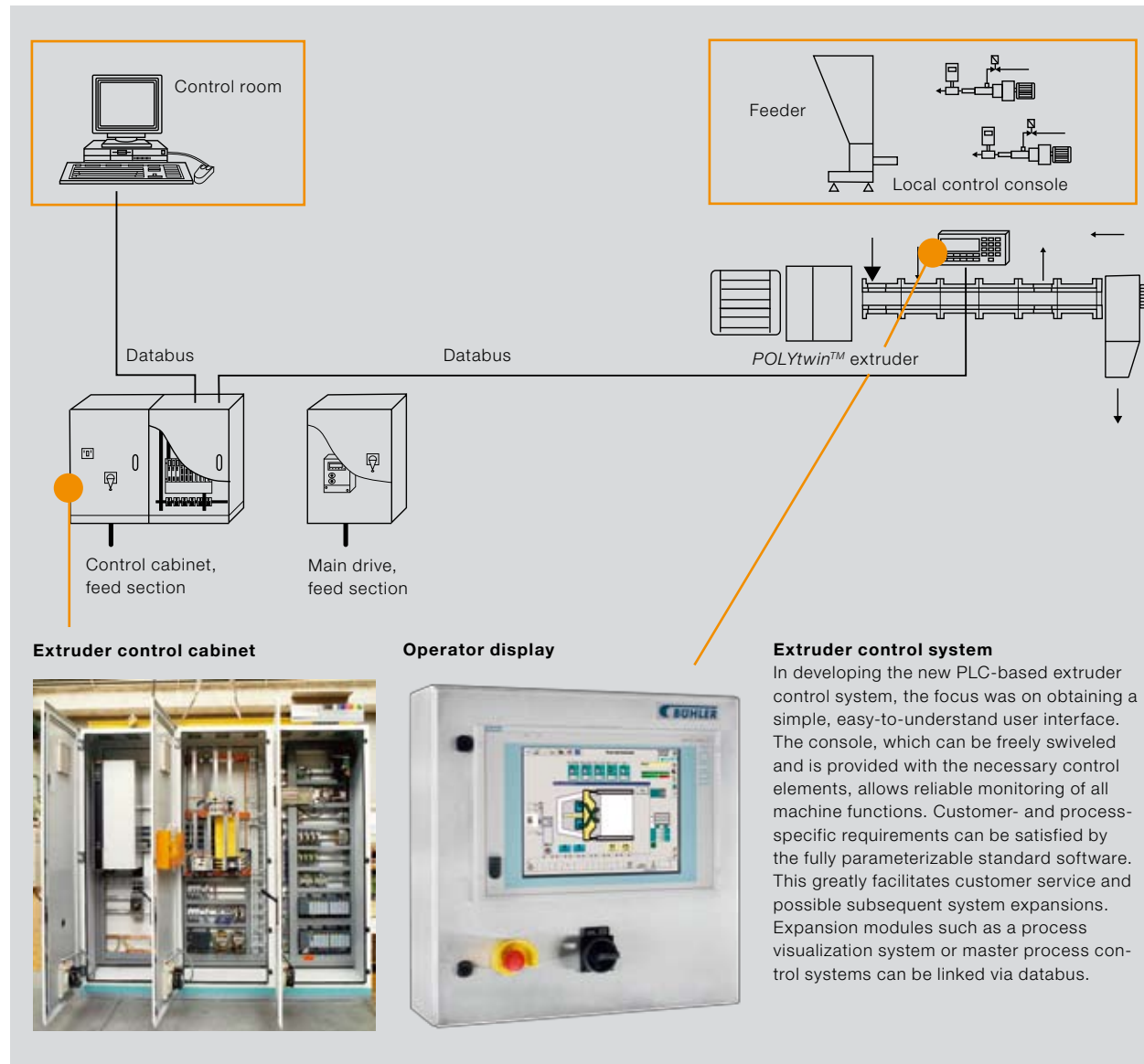
Powerful, fast, and flexible

High torques, screw speeds and pressures are essential in any state-of-the-art twin-screw extruder in order to cover the wide range of applications.

By applying a high degree of modularity, Buhler is in a position to provide the optimal extruder configuration at reasonable cost and within a short time to suit specific applications. Easy cleaning and accessibility of all critical zones ensure excellent sanitation – an important aspect in making high quality products. These and numerous additional requirements have been taken into account in designing the new extruder series.

Extruder control system: Simple, open, functional

Not least, easy operation of the machine also contributes to production reliability. The new control system gives consideration to this important aspect. For example, users can select preprogrammed starting and stopping sequences. The local control panel featuring all the essential operating functions is fitted to the machine. Compliance with international standards and the modular design enable the system to be easily incorporated in a process control system. The control system regulates the feed of up to ten ingredients and can cool or heat up to ten barrel sections on the basis of specific requirements.



Processing section

The processing section is built from L/D basic modules up to 300 bar and 300 °C and made of corrosion-proof and abrasion-resistant materials. The basic modules in various versions allow an almost unlimited number of combinations and lengths. Reliability and a long service life are achieved on the basis of the "shell principle":

- Outermost shell for mechanical strength and for corrosion protection to allow washing
- Central shell for circulation of the cooling or heating agent
- Inner shell for optimal resistance to wear due to various special alloys and material technologies



Cutter

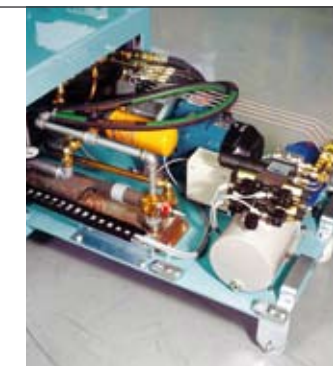
Very easy operation, high sanitation and perfect cutting action without deforming the product. The unique principle of the laterally movable Buhler cutter offers the following advantages:

- Knives can be readjusted during production and the knife head can be exchanged without stopping production, resulting in high machine availability
- Aspiration system with or without additional hot air supply and generously sized cutter housing ensures gentle, residue-free product discharge



Withdrawable oil supply unit

Efficient, monitored circulation, cooling and filtering of the gearoil is a requirement for achieving a long service life of the extruder gear train. With a minimized need requirement and excellent accessibility, this is ensured by the withdrawable oil supply unit. During operation, the oil supply system remains invisible and protected from dirt inside the bottom section of the machine.



Ejection of the screw pair

The screw shafts can be ejected at the front end at the push of a button. Even badly jammed screws can be easily and quickly ejected by the high forces available, minimizing downtimes. For ejection, the screw pack remains preloaded. This prevents material from entering between the elements. This unique, patented device is integrated in a sanitation-compliant way inside the gearing. It is part of the scope of supply of the machine.



Training and Service.

Always a step ahead.



Customer training in the extrusion pilot plant.

Extrusion engineering laboratory

The functional extrusion engineering laboratory supports the practical development of new products, processes, and equipment as a supplement to the scientific problem-solving approach. It allows various process operations to be simulated in isolation as well as in a wide variety of combinations.

Engineering

Our project engineers ensure smooth handling of your order and will make sure our systems are properly integrated in your production environment.

Installation and start-up

The installation and start-up specialists of the extrusion department ensure competent installation, construction site management and smooth project processing up to the point of start-up.

Training for your operating personnel

On request, Buhler offers training for your personnel in our pilot plant. The personnel to be trained benefit from a highly varied program at our headquarters.

Customer service

Our engineers and service technicians ensure trouble-free service of the equipment. We supply this service throughout its life cycle either at your site or in Uzwil.