

ZE BluePower twin-screw extruders Boosting power and volume

Engineering Value

Krauss Maffei
Berstorff

More power More volume

The ZE BluePower twin-screw extruder series stands out for numerous innovative features in terms of energy efficiency and process engineering. This series is designed to meet the most demanding market challenges as to output rate, product quality, process reliability and flexibility. Benefit from the multitude of energy-saving innovations and the perfectly matched components of this trendsetting twin-screw extruder series.

Thanks to a wide variety of configuration options, the process section of the ZE BluePower can be tailored to specific applications in the compounding of engineering plastics, polyolefins, cable compounds, PVC and master-batch compounds or be adapted to special process tasks.

Higher torque density and increased free volume

The geometrical dimension of screw shaft and screw elements, the screw preloading system and the geometry of the connecting sleeves have been optimized in order to safely transmit and fully exploit the high torque of up to 16 Nm/cm³. Innovative screw concepts with an increased OD/ID diameter ratio of 1.65 give substantially higher output rates at considerably lower energy consumption.



Newly developed elliptical shoulder liners provide optimum wear protection

Customized processing section

The modular range of barrel sections with 4 and 6D length and the wide variety of different screw elements ensure maximum flexibility in the development of customized solutions for specific applications. Our proven C-clamp system provides for rapid barrel section changes.

Highly efficient wear protection

Numerous technical improvements of the ZE BluePower series give substantially increased availability and unparalleled ease of maintenance in 24/7 production mode.

To achieve optimum wear protection for all applications, KraussMaffei Berstorff has complemented the range of patented induction hardened or coated barrel sections by new wear liners. Thanks to unparalleled fitting accuracy and axial fastening, the elliptical shoulder liners provide optimum heat transfer and perfect tightness of the processing chamber.

Effective cooling

The new valve and distributor technology and changed spiral-shaped cooling channels give more efficient cooling of the processing section and thus reduce the pressure loss within the temperature control system.

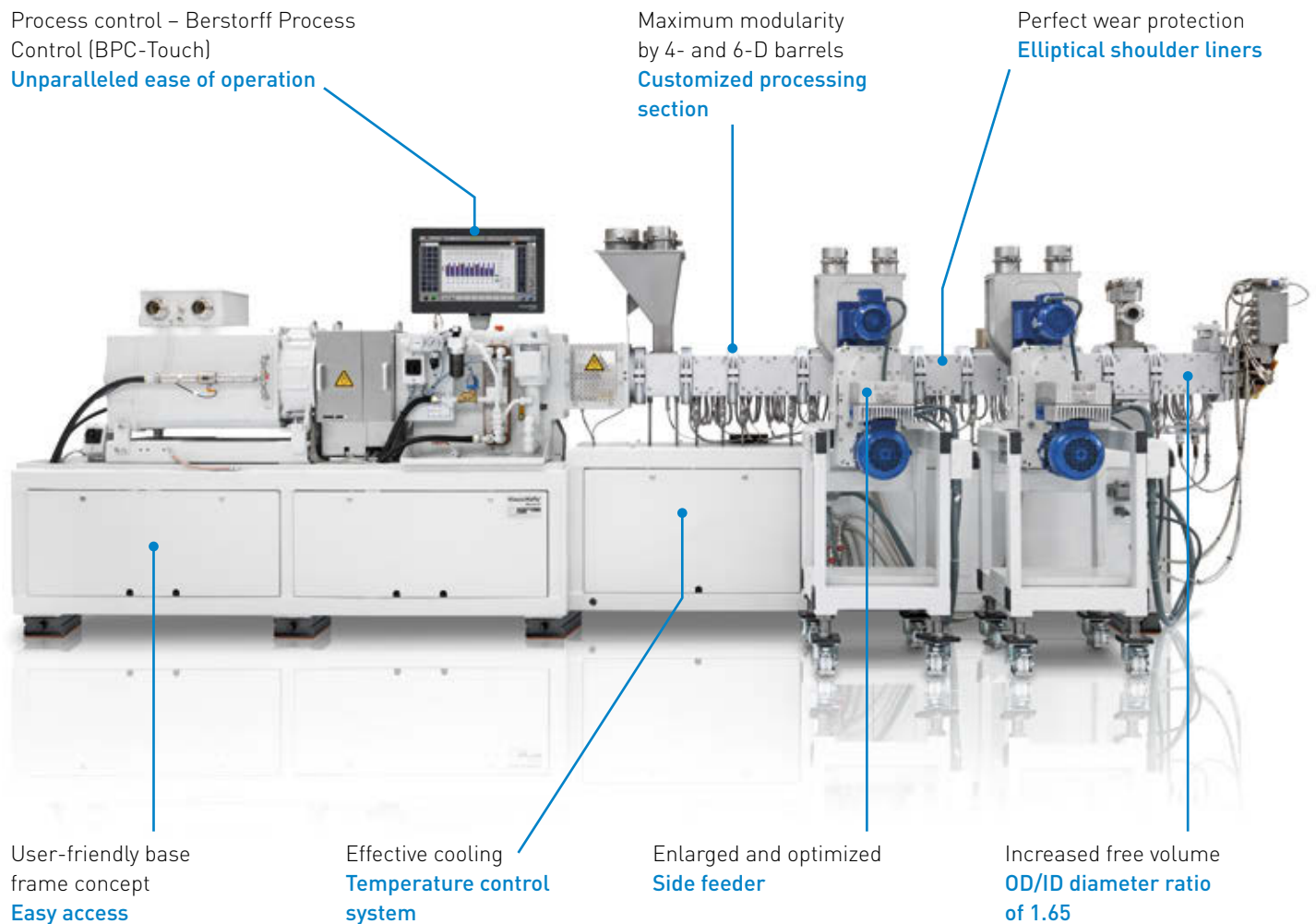
User-friendly base frame concept

The ZE BluePower series features a new base frame concept, which ensures easy and rapid access to the different machine components. With this application-oriented solution, peripheral equipment and control systems can either be integrated into the base frame or mounted separately.

Your benefits:

- High output rates
 - Low energy consumption
 - Highly effective wear protection
 - Easy access
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Take a closer look at the ZE BluePower series an impressive encounter



Maximum ease of operation

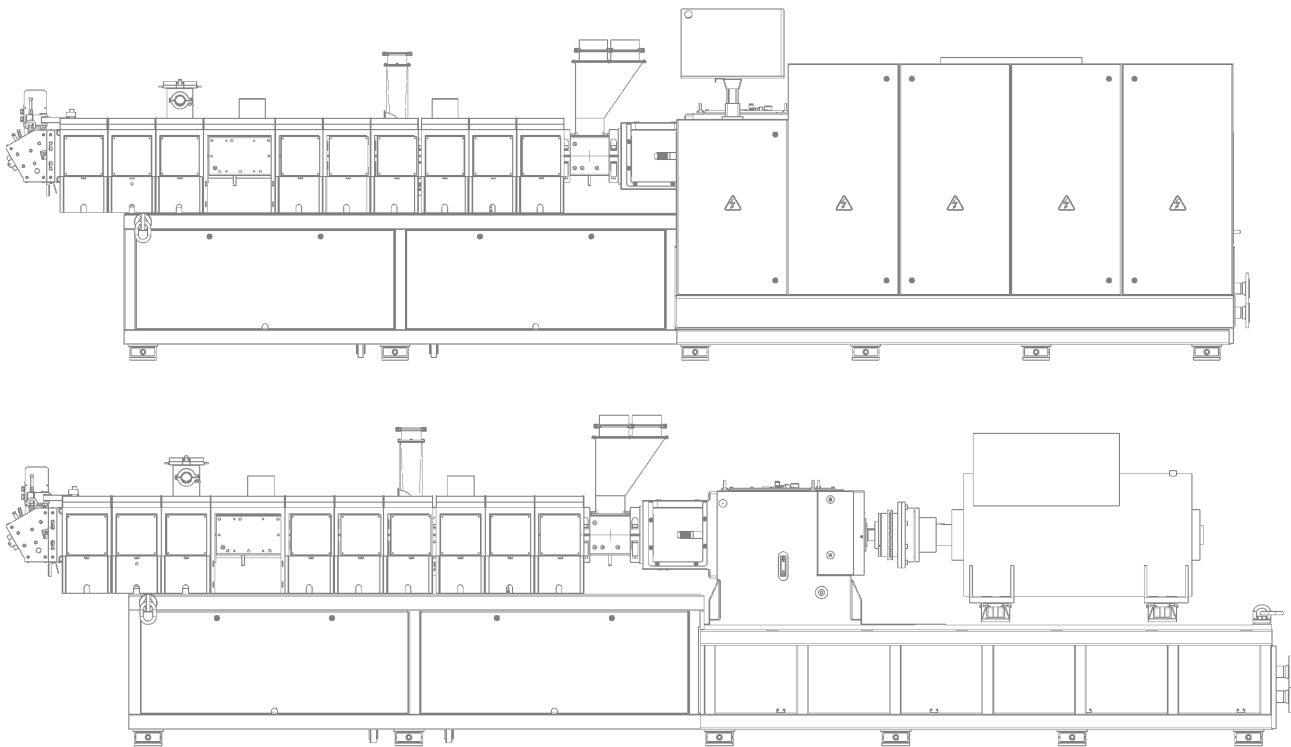
The tried and tested Process control - Berstorff Process Control (BPC-Touch) is clearly structured and self-explanatory. All components – from the metering system to the pelletizer – can be directly controlled from the central operator panel.



Central operator panel for maximum ease of operation

Technical Data

ZE BluePower



Type	Screw diameter	Flight depth	Maximum screw speed	Maximum drive power ¹⁾	Maximum screw torque	Center line
	mm	mm	rpm	kW	Nm	mm
ZE Blue Power						
ZE 42 BluePower	42	8.6	1,200	163	2x 650	1,100
ZE 52 BluePower	52	10.7	1,200	310	2x 1,235	1,100
ZE 65 BluePower	65	13.3	1,200	591	2x 2,350	1,100
ZE 80 BluePower	80	16.4	1,200	1,106	2x 4,400	1,100

¹⁾ Inquiry and installed drive power depending on the process task.

Reliable. Cost-effective. Flexible.

The entire ZE BluePower twin-screw extruder is designed for maximum cost-effectiveness and energy efficiency – from the drive system right through to the extrusion die. The combination of increased free volume in the processing section and higher torque ensures cost-effective compounding. Thanks to improved side feeders, UltraFeed® degassing systems and various hold-down devices (lateral or vertical) the extruder provides maximum output rates. Opt for the ZE BluePower – the highly efficient and reliable twin-screw extruder.