

# BOOSTING POWER AND VOLUME

DISCOVER THE INNOVATIVE  
ZE BLUEPOWER SERIES



***KraussMaffei***  
*Pioneering Plastics*

# 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.



*Newly developed elliptical collar liners provide optimum wear protection*



*Central operator panel for maximum ease of operation*



## YOUR BENEFITS:

- High output rates
- Low energy consumption
- Highly effective wear protection
- Easy access

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 intermeshing 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/cm<sup>3</sup>. Innovative screw concepts with an increased OD/ID diameter ratio of 1.65 give substantially higher output rates at considerably lower energy consumption.

### 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 for the series 42–80 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 has developed new wear liners. Thanks to unparalleled fitting accuracy and axial fastening, the elliptical collar 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

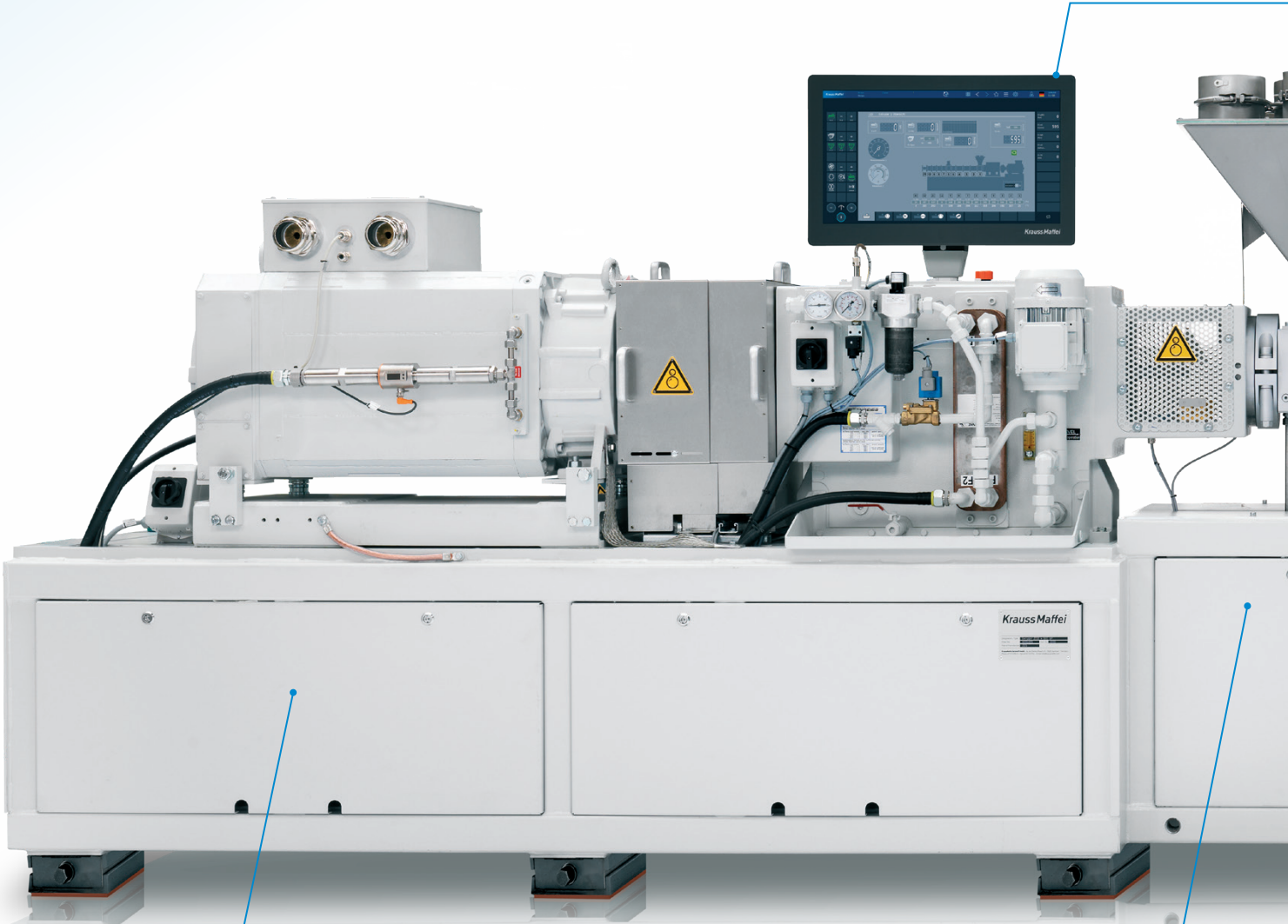
The ZE BluePower series features a new base frame concept, which ensures easy and rapid access to the different machine components. With this application-oriented solution, peripheral equipment and control systems can either be integrated into the base frame or mounted separately.

### BPC-Touch control system – connection to the digital future

The new BPC-Touch control system gives you complete control over the entire extrusion line with direct and fast access to the individual units in the higher-level plant network. Numerous monitoring, control and automation functions create the basis for optimum product quality and high process reliability.

With its versatile interfaces, the BPC-Touch control system is ideally equipped for the data world of tomorrow. In addition to proven conventional methods (USB, PDF export), various network-based data interfaces (e.g. OPC/UA, Euromap84) are available for accessing machines and operating data. Internal and external data recorders support the analysis and optimization of processes.

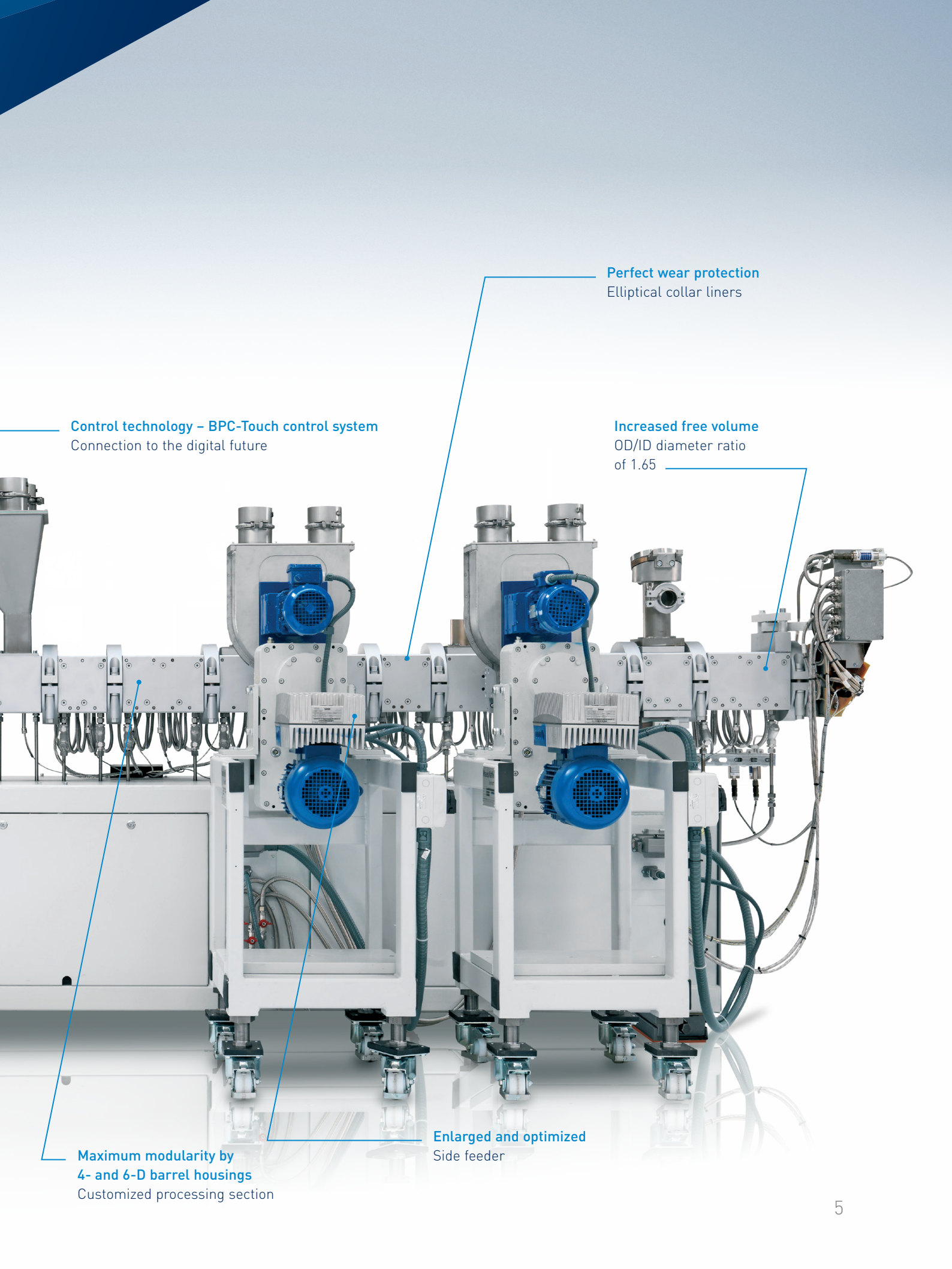
# TAKE A CLOSER LOOK AT THE ZE BLUEPOWER 42 – 80 SERIES AN IMPRESSIVE ENCOUNTER



**User-friendly base  
frame concept**  
Easy access

**Effective cooling**  
Innovative temperature  
control system





**Control technology – BPC-Touch control system**

Connection to the digital future

**Perfect wear protection**

Elliptical collar liners

**Increased free volume**

OD/ID diameter ratio  
of 1.65

**Maximum modularity by  
4- and 6-D barrel housings**

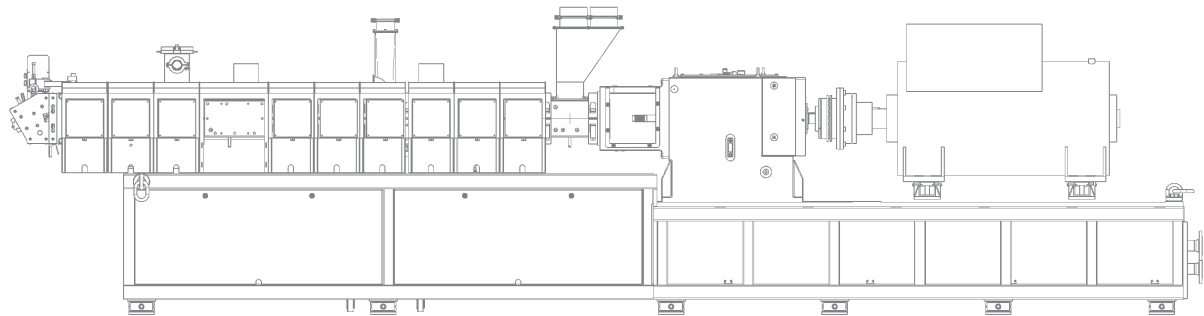
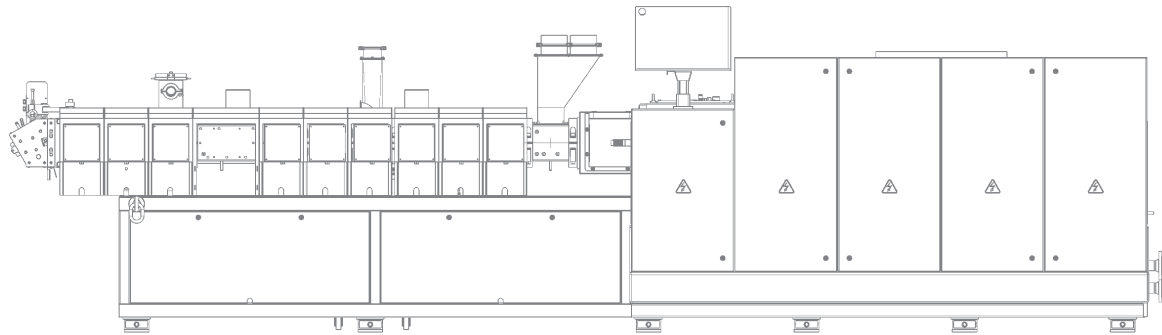
Customized processing section

**Enlarged and optimized**

Side feeder

# TECHNICAL SPECIFICATIONS

## ZE BLUEPOWER 42 – 80



Type	Screw diameter	Flight depth	Maximum screw speed rpm	Maximum drive power <sup>1)</sup> kW	Maximum screw torque Nm	Center height mm
	mm	mm				mm
<b>ZE BluePower</b>						
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

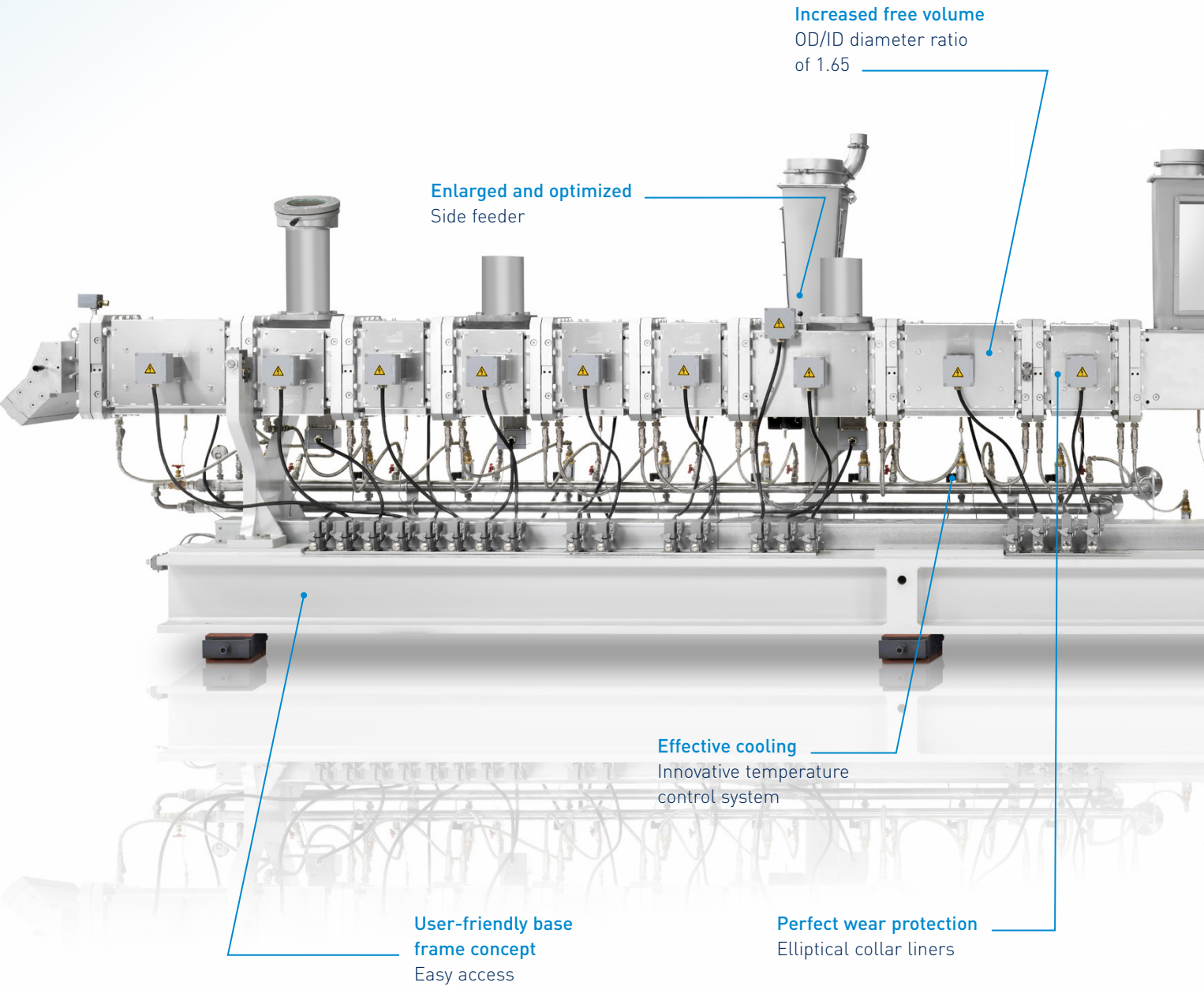
<sup>1)</sup> Installed drive power depending on the process task.







# TAKE A CLOSER LOOK AT THE ZE BLUEPOWER 98 – 166 SERIES AN IMPRESSIVE ENCOUNTER



**Increased free volume**  
OD/ID diameter ratio  
of 1.65

**Enlarged and optimized**  
Side feeder

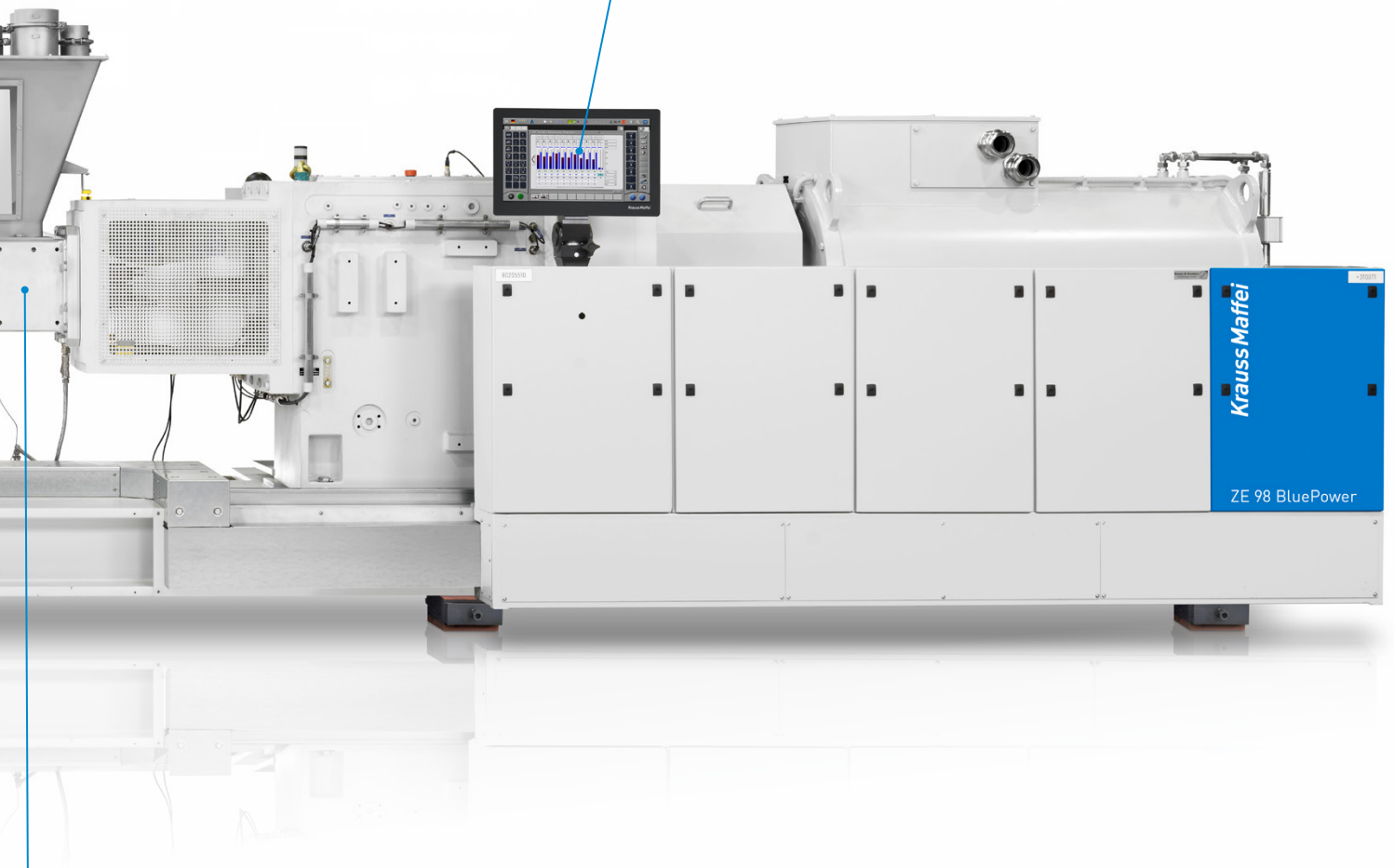
**Effective cooling**  
Innovative temperature  
control system

**User-friendly base  
frame concept**  
Easy access

**Perfect wear protection**  
Elliptical collar liners

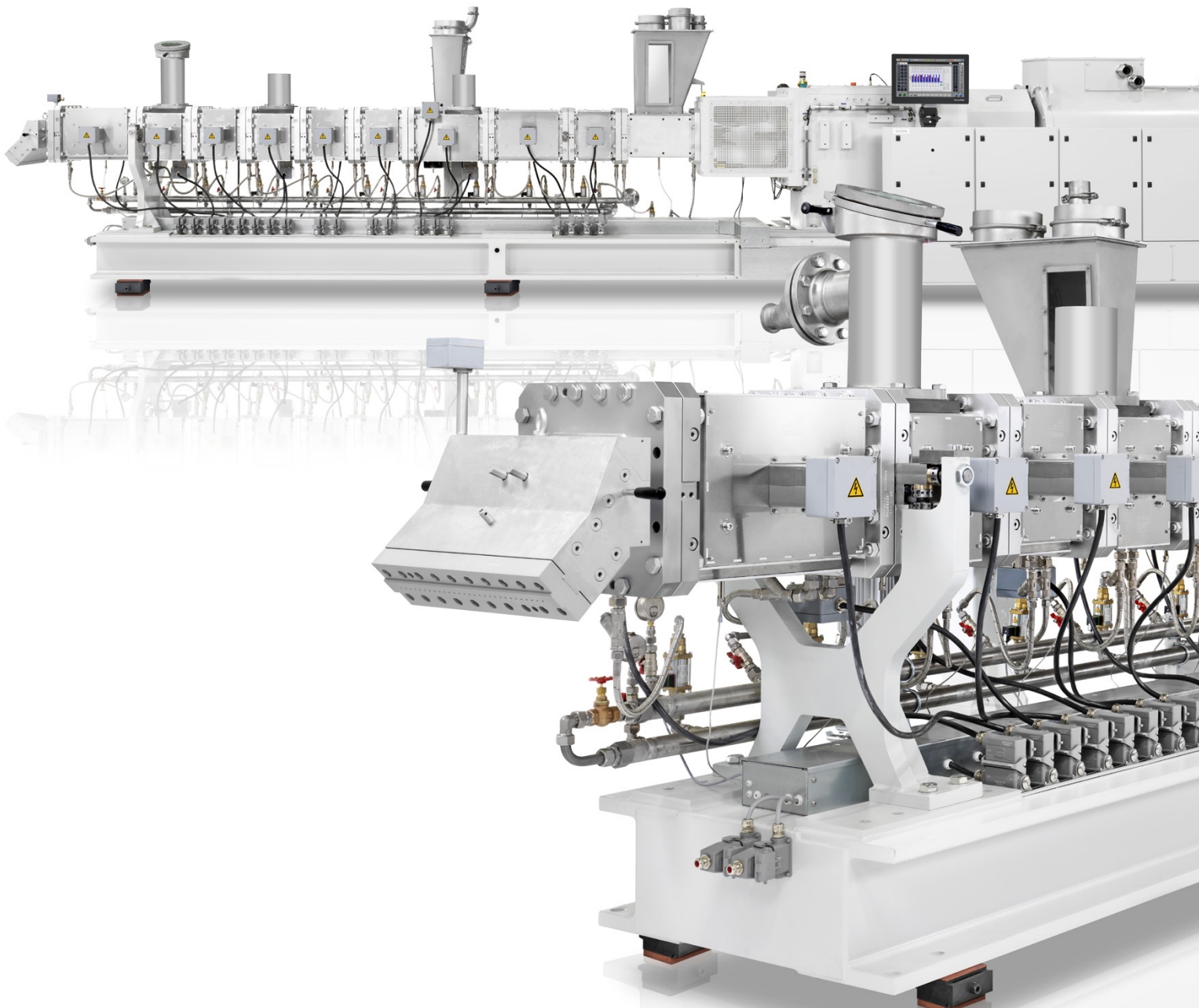


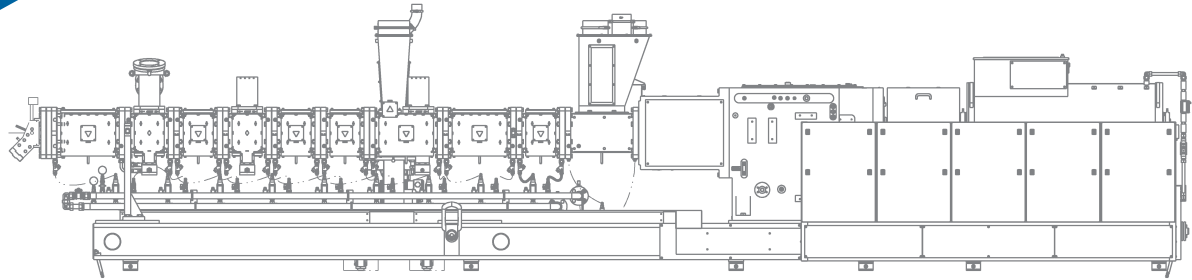
**Control technology –**  
**BPC-Touch control system**  
Connection to the digital future



**Maximum modularity by**  
**4- and 6-D barrel housings**  
Customized processing section

# TECHNICAL SPECIFICATIONS ZE BLUEPOWER 98 – 166





Type	Screw diameter	Flight depth	Maximum screw speed rpm	Maximum drive power kW	Maximum screw torque Nm	Center height
	mm	mm				mm
<b>ZE BluePower</b>						
ZE 98 BluePower	98	19.9	900	1,489	7,900	1,100
ZE 122 BluePower	122	24.9	750	2,439	15,530	1,100
ZE 142 BluePower	142	28.9	600	3,060	24,350	1,350
ZE 166 BluePower	166	33.7	500	4,032	38,500	1,350





# ONE-STOP SERVICES AND SOLUTIONS

KraussMaffei delivers complete compounding and recycling lines composed of machinery and equipment that are either produced in-house or supplied by selected vendors. Our profound expert knowledge and our enormous wealth of experience is the ideal basis for customized solutions providing unparalleled efficiency and maximum reliability of entire factories.

Depending on the semi-finished products to be produced, KraussMaffei as a general contractor offers the full range of services required for building a complete high-performance compounding line: from the plant design and layout, plant logistics, basic and detailed engineering, interface coordination with the construction partner, planning of the test laboratory and workshop, manufacturing of the line, training of the operating personnel right through to set-up and start-up of the equipment.



A qualified project team coordinates the interaction between the different in-house divisions and vendors involved in the construction of an extrusion line in order to achieve an intelligent plant layout and cost-effective engineering. This team also ensures tight project control and keeps a constant eye on deadlines and costs at all times. The KraussMaffei project team monitors all manufacturing steps of the line up to the final acceptance of the equipment and provides competent advisory support whenever necessary.







# OUR WORLDWIDE EXPERTISE IS YOUR ADVANTAGE DIGITAL & SERVICE SOLUTIONS

With your KraussMaffei machine, you have chosen a product that delivers the highest levels of productivity and reliability. In addition to our range of machinery, KraussMaffei focuses on comprehensive and future-oriented solutions, innovative business models and a selected portfolio of digital products.

## Customer service at the touch of a button

The process of digital transformation is becoming faster and easier than ever for the customer. Our Digital & Service Solutions make your production chain even more flexible and efficient with future-oriented solutions. KraussMaffei thus globally provides an all-inclusive customer service package and networks machines and processes with each other. Our global support offers a sound basis for your local long-term success.

## Individual challenges in mechanical engineering call for intelligent solutions

With our services portfolio, we support you throughout your machine's lifecycle with a strong focus on your specific needs. In order to satisfy your wishes, we offer you a wide range of solutions that ensure maximum availability and optimum productivity of your machines.

## Technology<sup>3</sup> as a unique selling proposition

KraussMaffei is the only supplier in the world with a product range comprising the most important machine technologies for plastic and rubber processing: injection molding machinery, automation, reaction process machinery and extrusion technology. KraussMaffei is represented worldwide with more than 30 subsidiaries and over 10 production plants as well as about 570 commercial and service partners. Working together with our customers and partners, we are thus in a position to offer vast and unique expertise in the industry.

You can find further information at:  
[www.kraussmaffei.com](http://www.kraussmaffei.com)





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