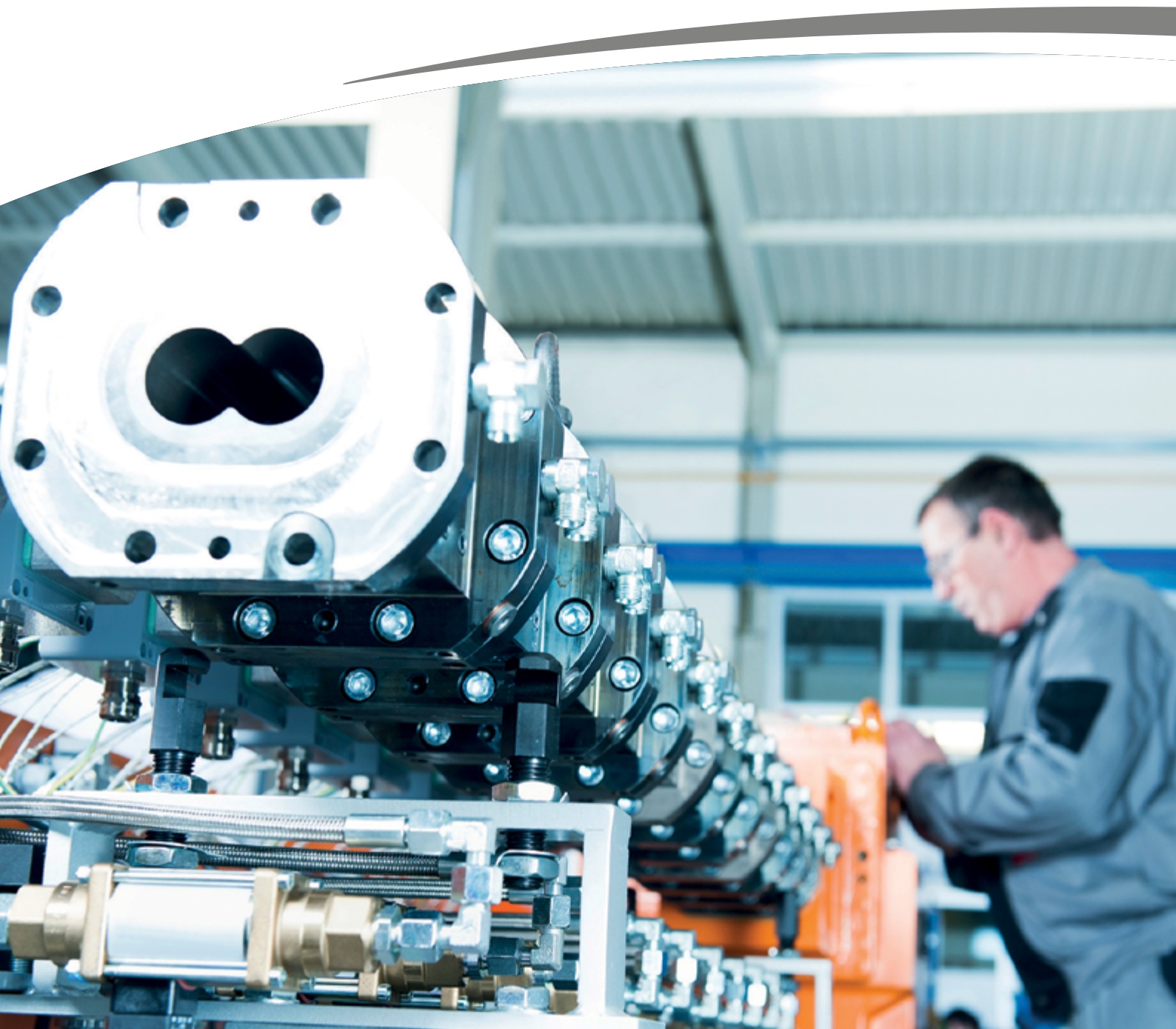
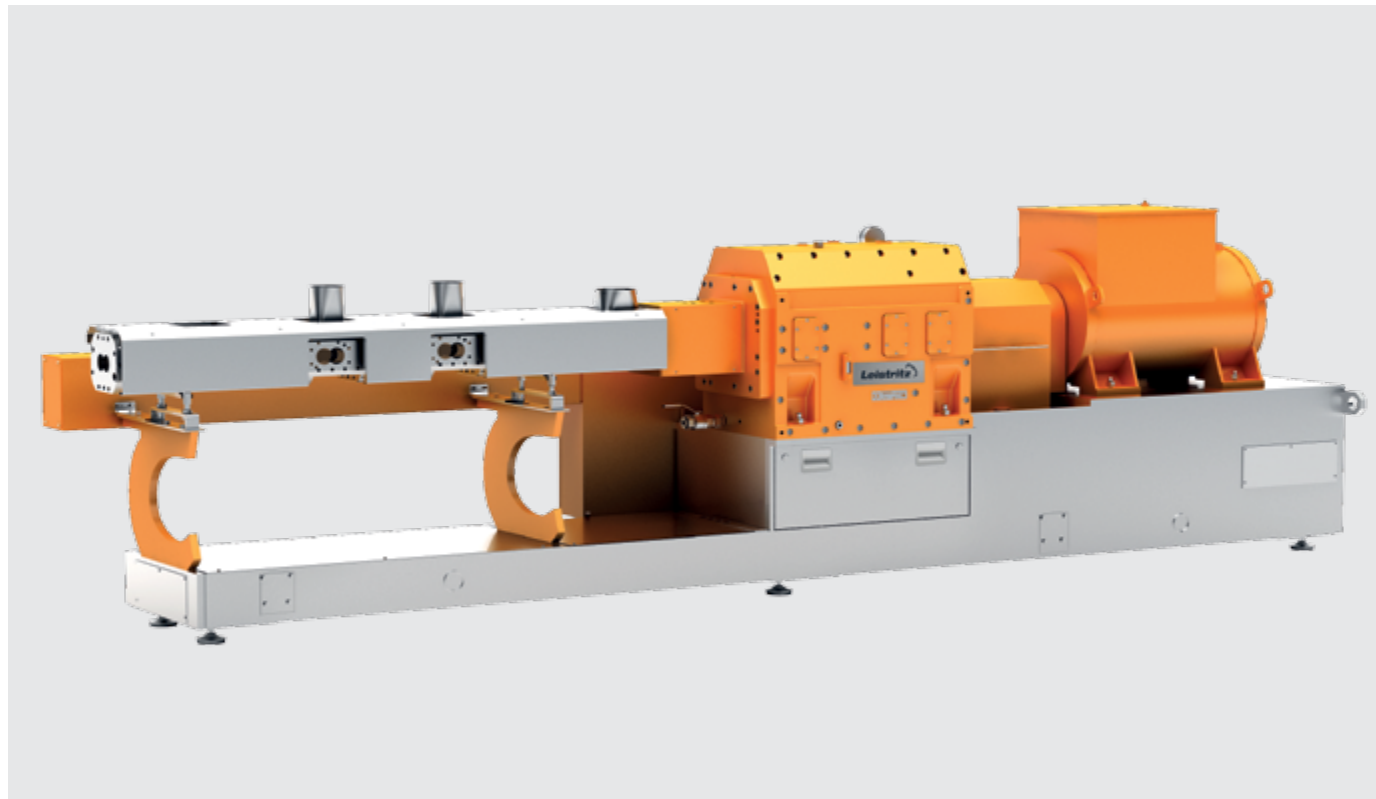


ZSE CC SERIES

Classic Compounders for Asia





Example of a Leistriz Classic Compounder

GERMAN KNOW-HOW – CHINESE SOURCING

Leistriz Extrusion Technology has been a renown manufacturer of state-of-the-art extrusion lines for many decades. With thousands of extrusion lines operating all over the world, a well functioning service network and process labs with experienced process engineers we are a top-notch global supplier for compounders.

Since 1937 Leistriz has been dealing with twin screw extruders with an ever increasing market share. For many decades our extruders have been sold and installed all over Asia. With our subsidiaries in Singapore and Taicang, China we are close to our customers.

FIRST ASIAN LEISTRIZ TWIN SCREW

Here we have gathered the experience and know-how to manufacture the first Asian made Leistriz twin screw extruder series ZSE CC. Following the motto „German engineering and design - qualified Chinese sourcing“ we have developed a product which fulfills our highest quality standards combined with the special market requirements in Asia.

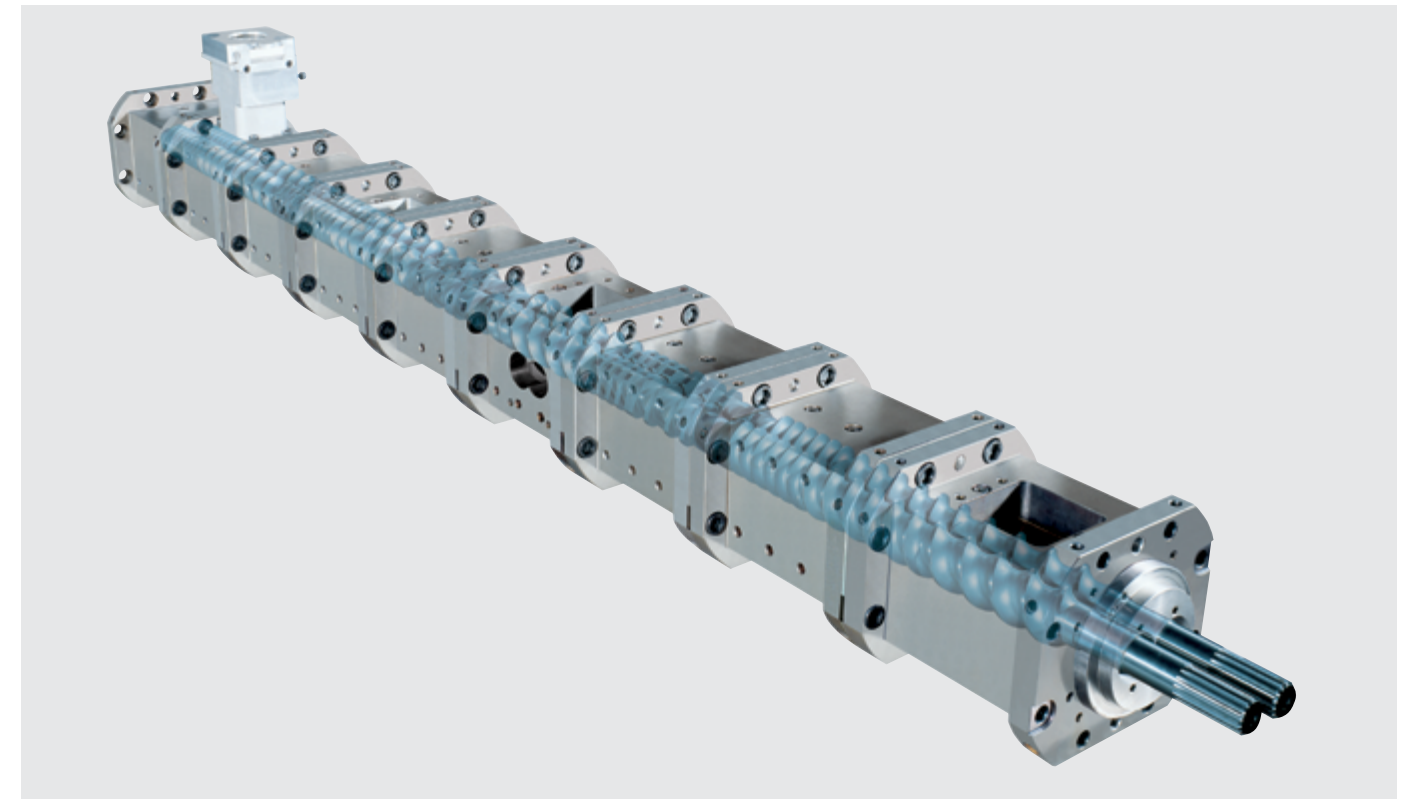
Thus, we are further opening up the Leistriz extrusion world to a larger audience of Asian plastics processors.

THE LEISTRIZ SERVICE WORLD

Leistriz facilitates professional service by long-term experts all over the world. In China our Taicang service location and for South-East Asia our Singapore office is available for world-class service and training in Chinese and English language.



Practical training during Leistriz Extrusion Academy in Taicang



Processing unit with OD/ID ratio 1.5

CLASSIC COMPOUNDING

Decades of experience and top quality by German engineers

The ZSE CC series is the optimum machine for compounders and masterbatchers with a high awareness for quality and top performance.

The machine conception is based on a solid and highly efficient machine design, which convinces due to its smart combination of German parts and qualified local Chinese sourcing.

DRIVE UNIT

The complete drive unit comprises European made gearboxes, safety clutches and drives. With this we can guarantee high performance 24/7 with little to none downtimes. With the two screw speeds which are available (600 & 1,000 rpm) we can facilitate optimum settings for practically all relevant compounding applications. The specific torque of the ZSE CC extruders is currently 10.5 Nm/cm³ with the option of a 10% increase depending on the respective application and process.

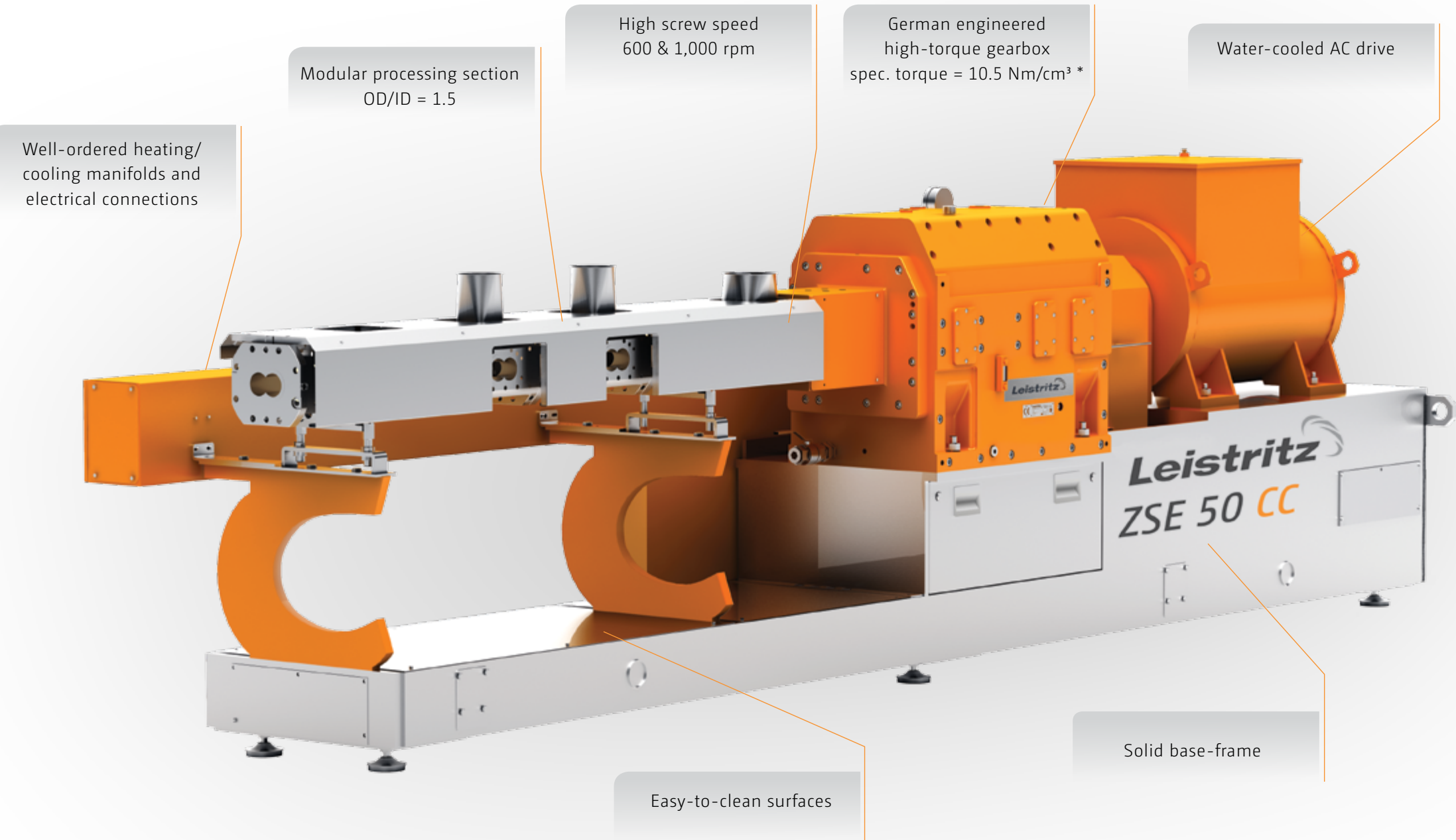
PROCESSING UNIT

The barrels and screws of the ZSE CC series go back to the very successful Leistriz ZSE HP series with an OD/ID ratio of 1.5. With most recent material combinations and sophisticated screw, shaft and barrel design, highly efficient extrusion processes can be run. Each barrel is a separate heating/cooling zone and can be monitored and controlled individually for optimum process settings depending on the application. The large variety of screw elements opens up a huge realm of seemingly never-ending possibilities with sophisticated screw designs for a multitude of compounding processes.

CONTROL UNIT

With thousands of lines in operation worldwide, our software engineers have crafted an easy-to-handle control unit on reliable European hardware platforms.

ZSE CC SERIES



AT A GLANCE:

Twin screw extruder advantages

- Usable for a multitude of processing applications
- Self-cleaning screw geometry
- High productivity – small footprint
- Continuous mode of operation – constant quality

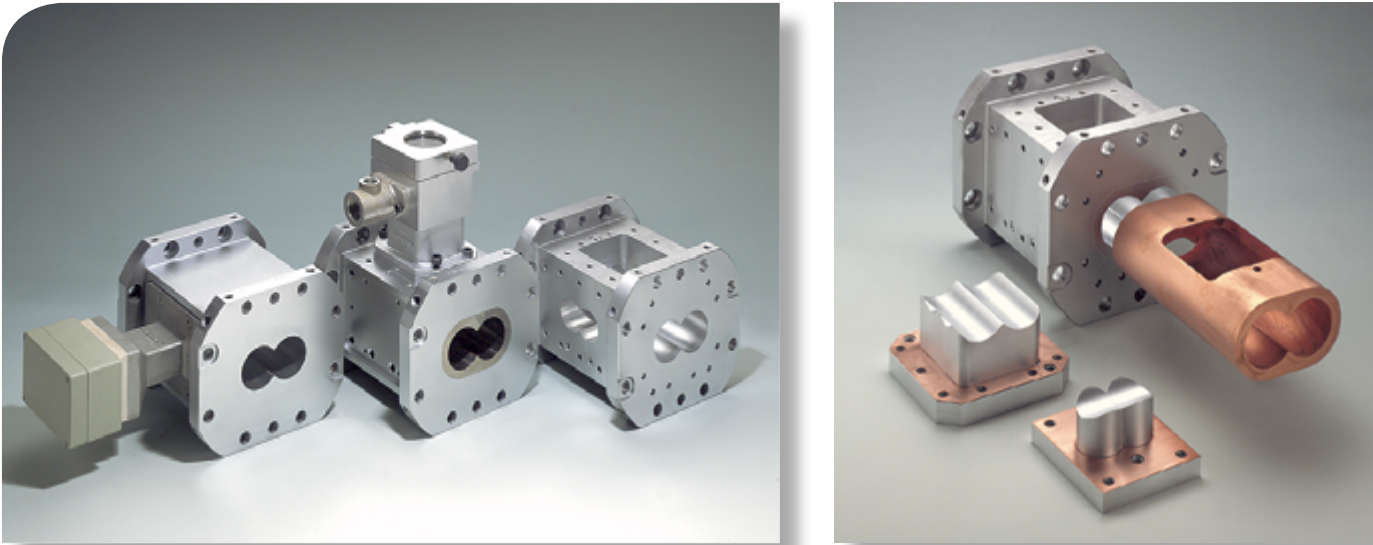
Type ZSE CC	Screw Diameter OD (mm)	OD/ID	Spec. total torque (Nm/cm³) up to max.	available
27	27.5	1.5	10.5 *	Q4/2016
40	39.7	1.5	10.5 *	Q4/2016
50	49.7	1.5	10.5 *	Q2/2017
60	59,6	1.5	10.5 *	Q2/2017

* increase of 10% possible depending on application

» ZSE CC – twin screw extruders fit for the Asian market ...
top quality German engineering, qualified Chinese sourcing! «

➤ Modular barrel system

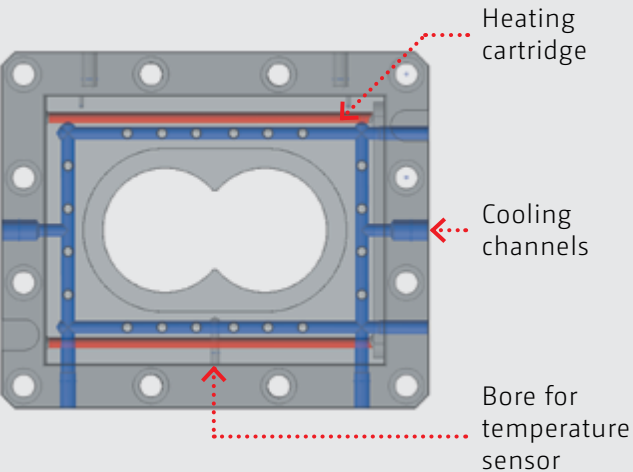
Leistritz extruders are designed as modular systems, which comprise several barrel modules that are either flanged together or – depending on the size of the line – are connected with tie rods. Leistritz offers barrels with different openings and inserts for material feeding, venting and degassing.



Material overview:

Material Code	Material	Thickness (mm)	Hardness (HRC)	Protection against			Remarks
				Abrasion	Corrosion		
VSA200	Hot-work steel liner	through hardened	58+2	very high	none	very high	standard
VSA402	CrNbV-HIP liner	through hardened	60+2				standard

One of the extruder’s essential quality characteristics is the optimum combination of cooling and heating in the control loop of the temperature device. Thereby, each barrel has a separate heating/cooling zone.



Barrel Heating / Barrel Cooling

In order to heat up the barrel in a fast and effective way, heating cartridges are used. They enable:

- quick warm up
- quick melting and wetting
- energy saving → heating inside the barrel in contrast to heating bands or angular heaters (see figure on the left)
- efficient spare part administration → same type of heating cartridges for all barrels of one extruder type

➤ Modular screw system

Screws and barrels are the heart of an extruder. Leistritz offers an extensive variety of screw geometries for an almost endless number of variations. Generally, there are conveying, kneading and mixing elements. The competence of the Leistritz processing experts is to create an optimum screw design for the according application. Depending on the screw geometry, various screw elements are slid onto the shaft in the desired configuration.



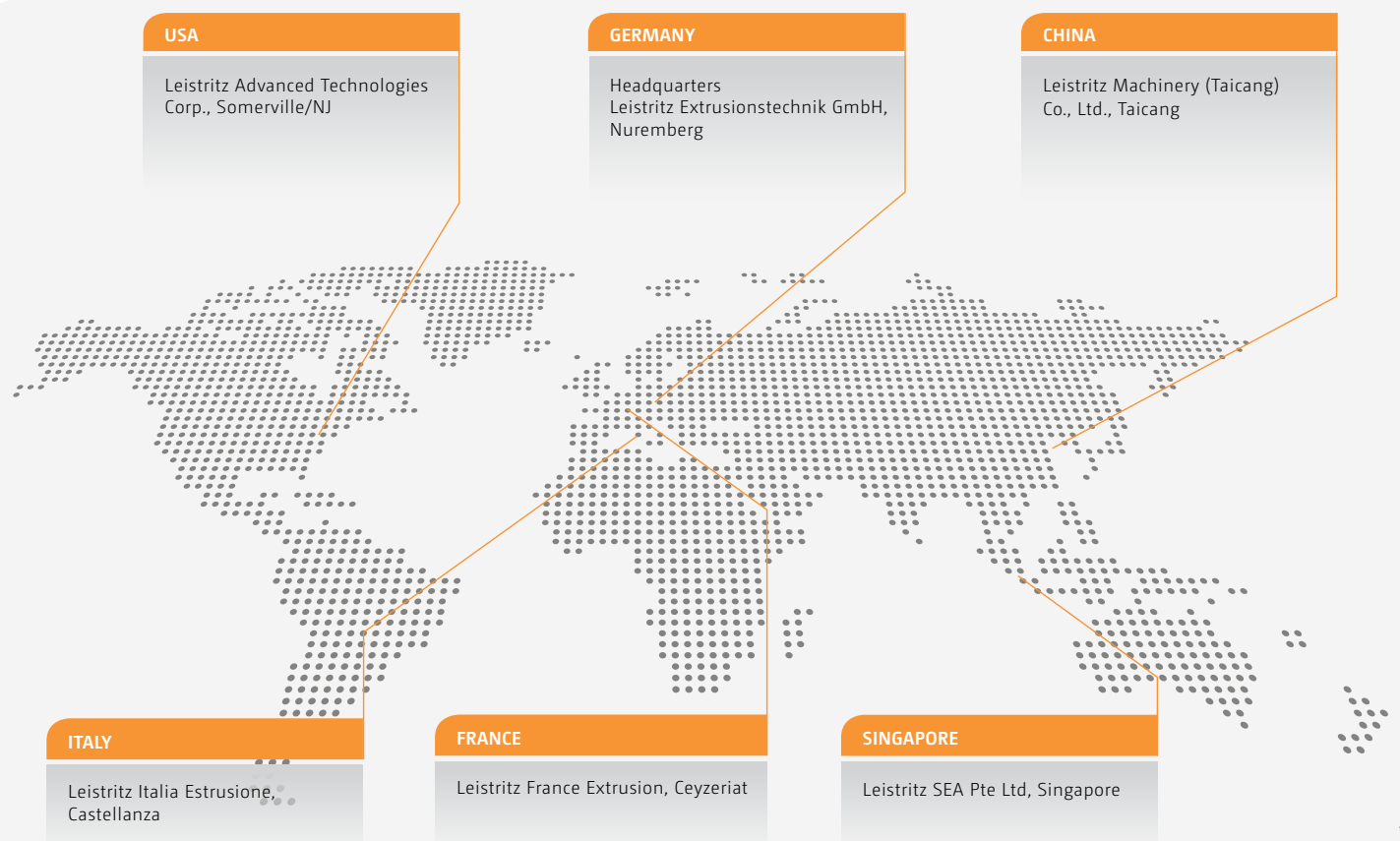
Material overview:

Material Code	Material	Thickness (mm)	Hardness (HRC)	Protection against			Remarks
				Abrasion	Corrosion		
VSA200	Hot-work steel	through hardened	59±1	very high	none	very high	standard
VSA402	CrNbV-HIP	through hardened	61±1				standard



EXTRUSION TECHNOLOGY

Available for you all over the world



➤ Leistritz Extrusionstechnik GmbH | Markgrafenstraße 36-39 | 90459 Nuremberg | Germany
Tel.: +49 911 43 06 - 0 | Fax: +49 911 43 06 - 400 | extruder@leistritz.com