



STS twin screw extruders.
Highest throughput
at best price-performance ratio.



Unleashing potentials to make you succeed





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STS twin screw compounders

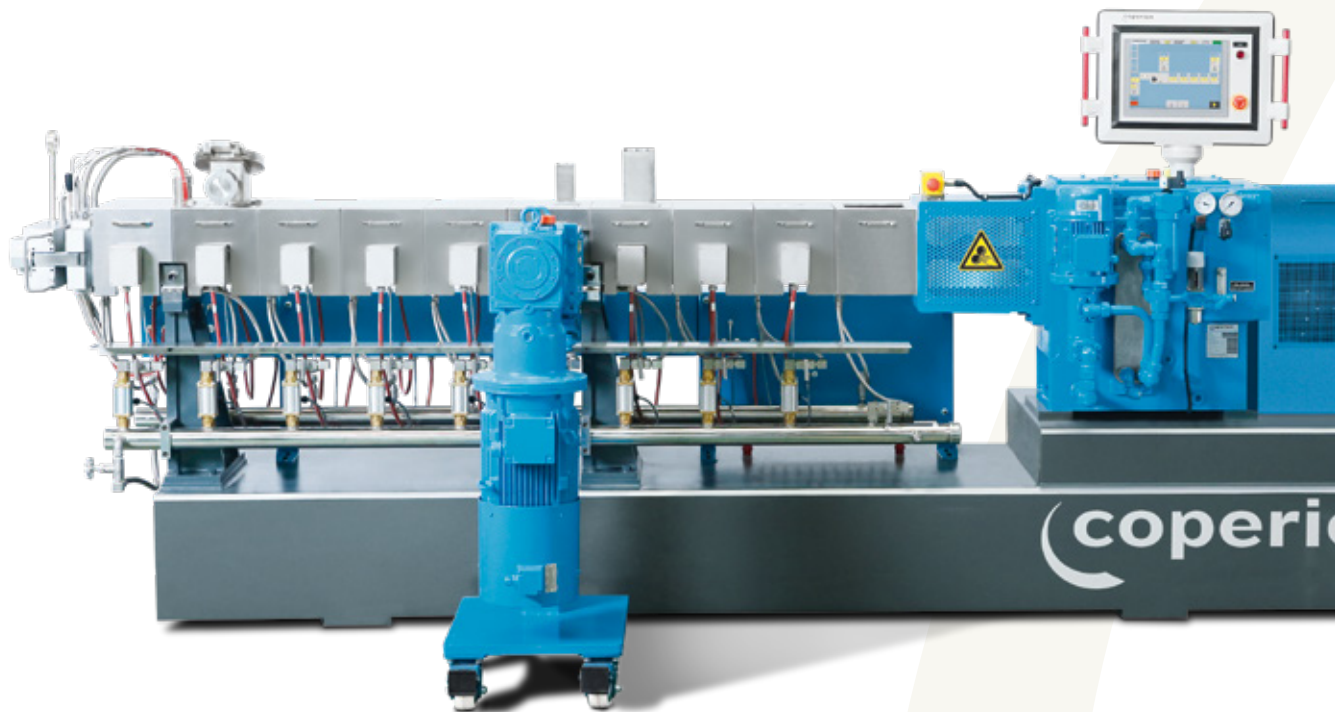
boosting possibilities

Over the years, the STS extruder series has established itself on the market as a quality product for a wide range of extrusion and compounding tasks such as engineering plastics, masterbatch, cable masses, recycling of regrind plastics, powder coating, and much more.

Production of the STS is in Nanjing, China, in compliance with CE directives. The result: A high-performance compounding system with low investment costs which ensures a fast return on investment. Each compounding system features smoothly

interacting process steps and gentle handling of the product with maximum productivity.

The quality of the end product is always at the center of focus: From feeding, conveying, melting, dispersing, homogenizing, devolatilizing, pressure increase to filtering and pelletizing, Coperion designs every process step to meet the exact requirements of your application. This makes the STS compounding systems the optimal solution for your application.



Advantages at a glance

- High specific torque
- Maximum throughput rates
- Long service life
- Best price-performance ratio
- High quality components
- Easy installation and operation
- European safety standards



→ STS 65 Mc¹¹ twin screw extruder

Areas of application of the STS compounder

- Filling and reinforcing of engineering plastics
- Alloying and filling of polyolefins/TPE
- Coloring of polyolefins and engineering plastics
- Production of color masterbatch, flame retardant masterbatch, filler masterbatch and additive masterbatch
- Recycling of regrind plastics
- Cable compounds, incl. PVC, HFFR, XLPE
- Bioplastics
- Battery materials
- Other applications

The right STS twin screw extruder for every application

STS Mc¹¹	Extruder with specific torque 11.3 Nm/cm ³
STS Mc PLUS	Extruder with specific torque 13.6 Nm/cm ³
STS 25 Mc¹¹	Laboratory extruder
STS two-stage	Extruder for the production of temperature and shear sensitive plastics

Modular design

The process section of the STS is designed as a modular system. It consists of several barrels in which the co-rotating screws operate. The advantage of this modular principle is maximum flexibility in compounding and extrusion processes.

Our process engineers configure the barrels and screw elements individually to meet your application's specific requirements. Different process zones are created as required for conveying, plasticizing, mixing and shearing, homogenizing, devolatilizing and pressure build-up in order to achieve highest product quality and maximum throughput rates.

The temperature of every barrel can be controlled individually. Heating is achieved by means of electrical heaters, the cooling is achieved by water. Standard barrels and screw elements are made of nitrided steel. Special high-alloy wear-protected steels are used in the enhanced wear and corrosion protected version.

Self-cleaning screw profile

The closely intermeshing twin screws of the STS series eliminate stagnant zones over the whole length of the process section thanks to their tight, self-wiping profile. The result is a consistently high degree of process reliability and optimal self-cleaning throughout the process section.

STS Mc¹¹ featuring a specific torque of 11.3 Nm/cm³

With its specific torque of 11.3 Nm/cm³ the STS Mc¹¹ sets standards: It features maximum throughput rates while the high degree of screw fill results in a decrease of melt temperature, thus improving compound quality. It incorporates the full process and quality know-how of Coperion. The STS Mc¹¹ series is exclusively equipped with European, Coperion branded gearboxes. Maximum screw speed reaches 900 min⁻¹. To improve cleaning and facilitate quick changeovers for masterbatch applications, the STS also features

hoppers with inserts and a redesigned die head. The screw shaft coupling is similar to the one long proven in the ZSK Mc¹⁸ series. The optimized base frame withstands torsion under maximum stress. The STS Mc¹¹ series covers most standard applications in process technology. It offers high productivity at an attractive price-performance ratio. The modular design of the process section allows maximum flexibility in production at process lengths of 16 to 68 D.



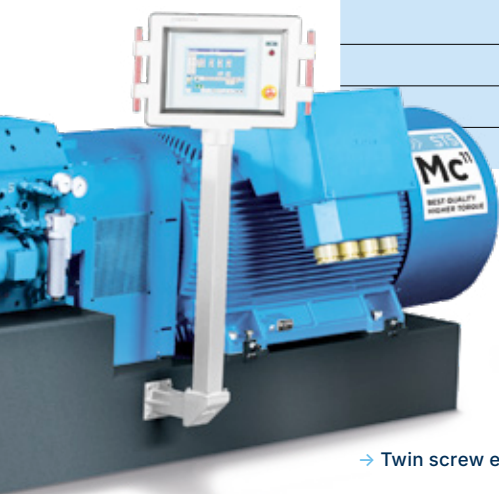
Technical data

STS Mc ¹¹	Max. specific torque Md/a ³ [Nm/cm ³]	Max. torque per shaft [Nm]	Max. screw speed [min ⁻¹]	Max. motor power [kW Hp]
25	11.3	106	1,200	30 40
35	11.3	305	900	60 81
50	11.3	835	900	165 221
65	11.3	1,590	900	315 422
75	11.3	2,440	900	483 648
96	11.3	5,350	600/900	706 947
125	11.3	11,600	600	1,530 2,051

Specifications are subject to change without prior notice.

Wear and corrosion resistance

	Material code	Material	Design	Area of application	
				Wear	Corrosion
Screw elements	CE 00	Nitrided steel	Surface hardened	•	•
	CE 50	High-speed tool steel	Through hardened	•••	•
	CE 150	PM composite material	Composite material	•••••	•
	CE 250	PM material	Composite material	••••	••••
Screw barrels	CB 00	Nitrided steel	Surface hardened	•	•
	CB 50	Bimetallic liner	Two-piece bushings	•••	•
	CB 66	Barrel: standard, coating: WC braze cladding	Direct coating of the 8-bore	••••	•••••
	CB 71	Chromium steel	Oval liner	••(•)	••
	CB 150	Cast chromium steel	Oval liner	••••	••
	CB 250	Ni-based PM material	Oval liner	••••	•••••



→ Twin screw extruder STS 96 Mc¹¹



Advantages at a glance

- Proven Coperion manufacturing standards
- CE certificate
- Base frame withstanding torsion under maximum stress
- Screw speeds of up to 900 min⁻¹ depending on the machine configuration and application
- Two operation and maintenance friendly machine control concepts – BasicMaster (relay control) and TouchMaster (PLC control)
- European, Coperion branded, high-performance gearboxes with high-tech safety clutch for safe transmission of high torque to the screw elements via involute splined shafts
- Die head with improved heating system and optimized flow geometry
- 4D individual barrel with precision single zone tempering
- High performance brass heater shells and water flash cooling with flexible connection to water manifold for optimal processing conditions in every heating zone
- Self-wiping, co-rotating screws for fast, easy changes in product and color
- A variety of materials available for the process section: nitrided steel for the basic version, special high-alloy wear-protected steels for demanding processes with a high stress level

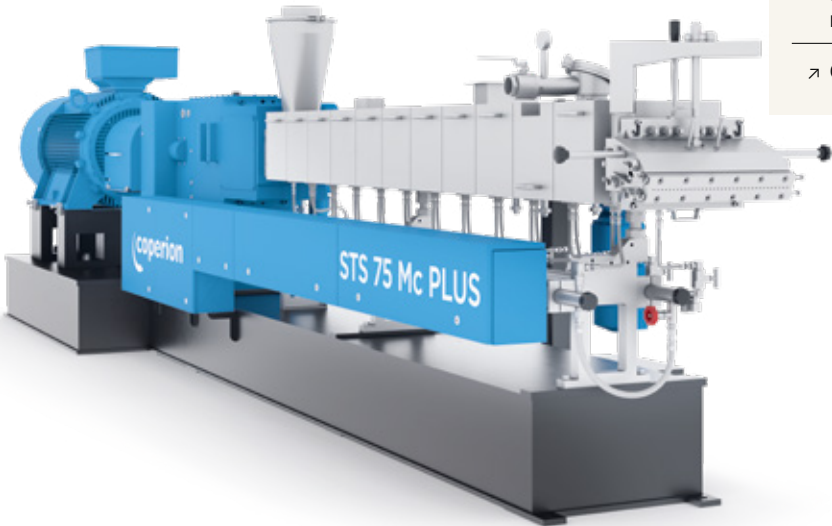
STS Mc PLUS featuring a specific torque of 13.6 Nm/cm³

The STS Mc PLUS twin screw extruder features an increased specific torque of 13.6 Nm/cm³. This advancement allows the compounder to deliver enhanced product quality while increasing throughput by up to 20% across all applications compared to earlier STS models. Key to this performance boost, alongside process-related modifications, is the optimization of the drive's key components. The STS Mc PLUS extruder features a high-power motor and a gearbox specifically designed to handle high torque. Proven high-performance materials are used for the screw shafts to ensure effective torque transmission from the gearbox to the screw elements. The higher fill level in the process section is crucial to the improved compound quality achieved by the STS Mc PLUS, as it reduces both shear stress and melt temperature while enhancing mixing behavior. This results in an exceptionally gentle product handling at high throughputs.



Advantages at a glance

- 4th generation of STS technology with Coperion Engineering from Germany
- Specific torque of 13.6 Nm/cm³
- Screw speeds of up to 900 min⁻¹ – depending on the machine configuration and application
- Coperion's in-house, high-precision process sections, available in a variety of materials to meet the needs of wear and corrosion protection
- Excellent self-wiping, co-rotating screws, narrower melt residence time distribution curve, highest product quality
- High-performance gearboxes and safety couplings from European brands
- Stronger base frame for higher torque, safety and reliability
- Process section equipped with heating cartridges that generate heat very energy-efficiently exactly where it is needed
- CE compliant



Technical data

STS Mc PLUS	Max. specific torque Md/a ³ [Nm/cm ³]	Max. torque per shaft [Nm]	Max. screw speed [min ⁻¹]	Max. motor power [kW Hp]	
50	13.6	1,007	900	199	271
65	13.6	1,920	900	380	517
75	13.6	2,730	900	540	734
96	13.6	6,454	600	852	1,143

Specifications are subject to change without prior notice.

STS 25 Mc¹¹

laboratory extruder

The laboratory extruder STS 25 Mc¹¹ is based on the successful STS technology. It was developed especially for the processing of smallest batch sizes. The reliable scale-up to larger STS extruders makes it the ideal compounding system for research and development tasks.



→ Laboratory extruder STS 25 Mc¹¹

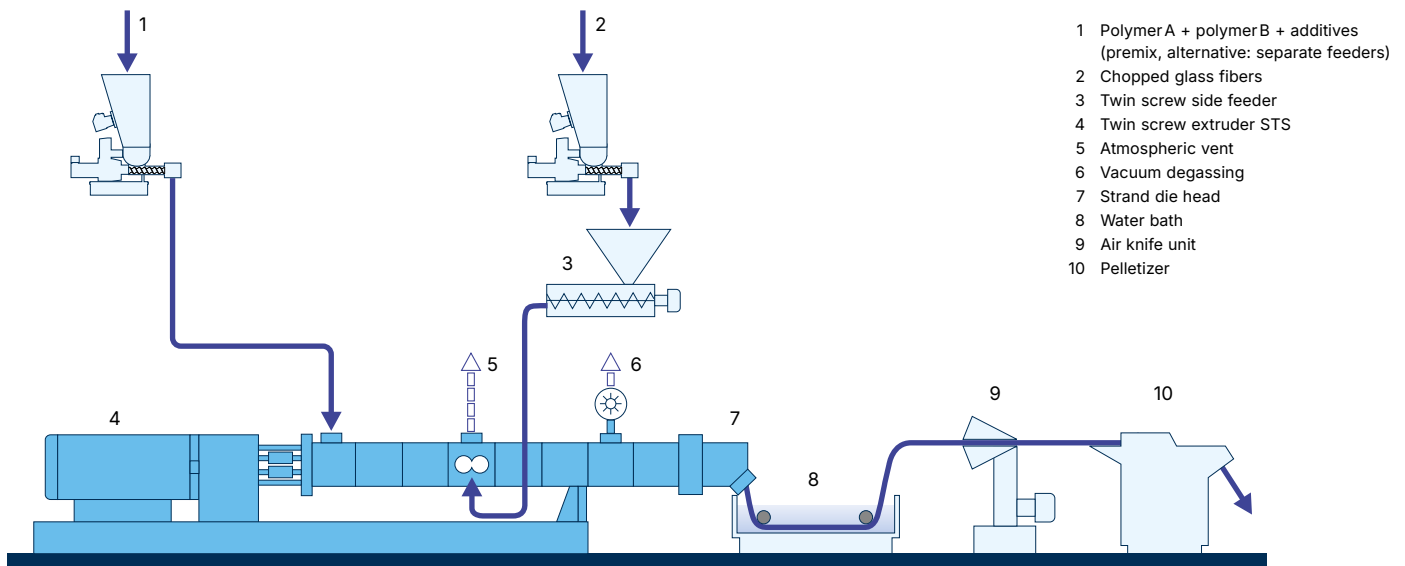
Special features

- Filling and reinforcing of engineering plastics
- Small batches from 2 kg
- Throughput rates of up to 110 kg/h
- Precise scale up within STS family
- Element flight depth of 4.55 mm enables good pellet feeding performance
- Modular structure with exchangeable 4D barrels and all standard screw elements
- Easy cleaning
- Heater cartridges ensure uniform heating and energy savings
- Small space requirement and movable wherever needed
- Easy to operate by PLC and touch screen as option

Technical data

D _o /D _i	1.55
Flight depth [mm]	4.55
Barrel length [mm]	100
Centerline height [mm]	1,100
Nm/shaft [Nm]	106
Specific torque Md/a ³ [Nm/cm ³]	11.3
Max. output speed [min ⁻¹]	1,200
Drive power [kW]	30
Overall dimensions (L x W x H) [mm]	2,570 × 550 × 1,455

Engineering plastics



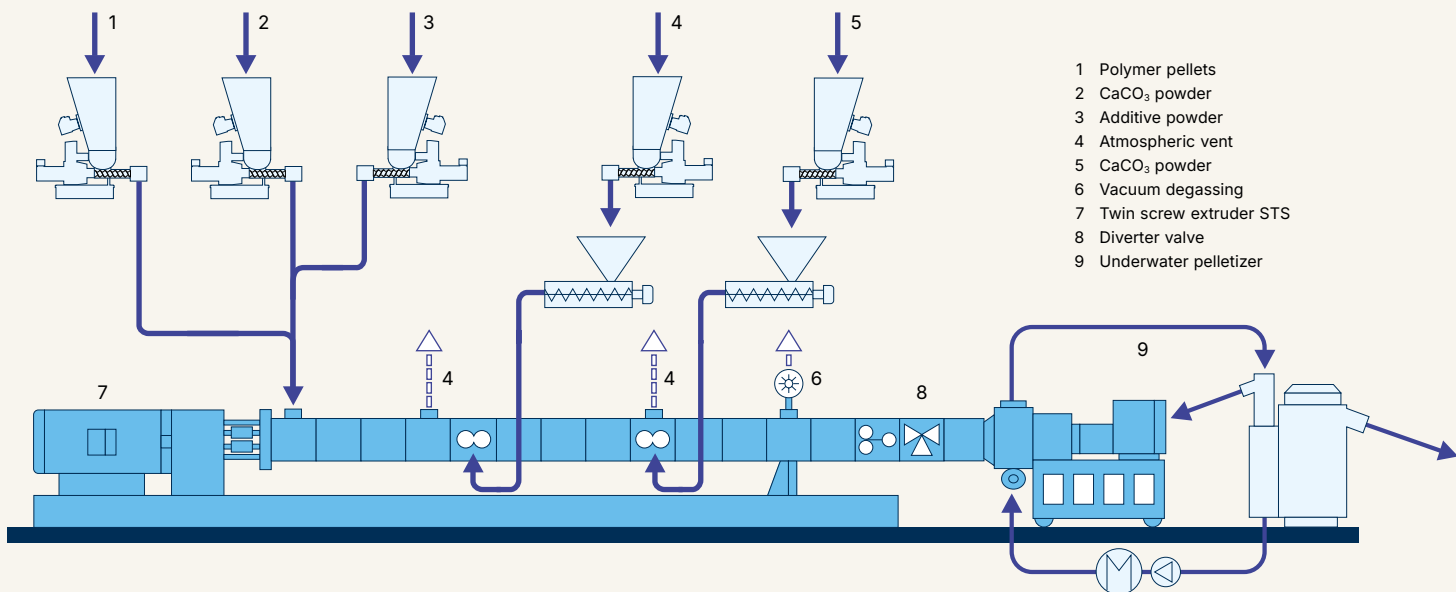
Highly filled compounds

The STS has proven itself for the production of highly filled compounds. The main area of application is the manufacturing of highly filled polyolefins with different fillers like calcium carbonate, talc or TiO_2 .

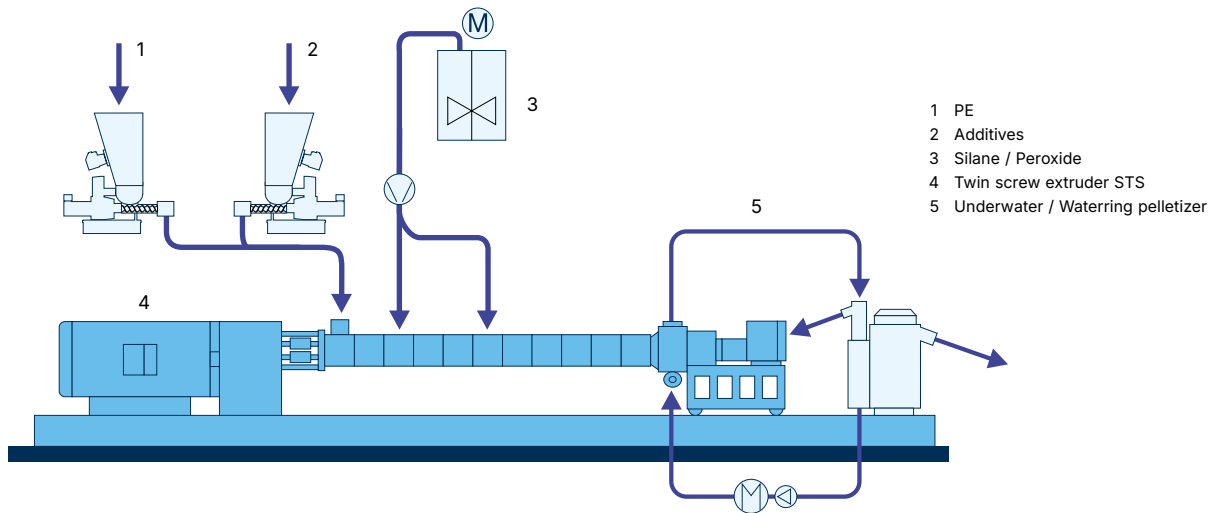
STS Mc¹¹

Throughput at 600 min⁻¹ [kg/h | lbs/h]

	LLDPE (MFR25) + 80%wt Omyafilm 707: 450–600 min ⁻¹	LLDPE (MFR1) + 80%wt Omyafilm 707: 450–600 min ⁻¹
	25 77	25 55
25	35 77	100 220
35	150 330	300 661
50	400 882	550 1,213
65	750 1,653	850 1,874
75	1,200 2,646	1,600 3,527
96	2,000 4,409	3,500 7,700
125	4,300 9,500	



Cable compounds



Masterbatch

Masterbatch production makes great demands on the compounding process: the pigments and additives must be mixed into the base polymer absolutely homogeneously. STS twin screw extruders are particularly suited to masterbatch production because of their excellent mixing properties and gentle product handling at a very attractive price-performance ratio. The STS achieves best dispersion of pigments at lowest specific energy input.

Premix process

In the premix process, all components are combined in a mixer and then conveyed via a volumetric feeder into the STS Mc¹¹ extrusion system.

Recipe ingredients

Base polymers: PE, PP, PS, EVA, PET, PA, PC, SAN, PMMA, ABS, TPE, POM, etc.

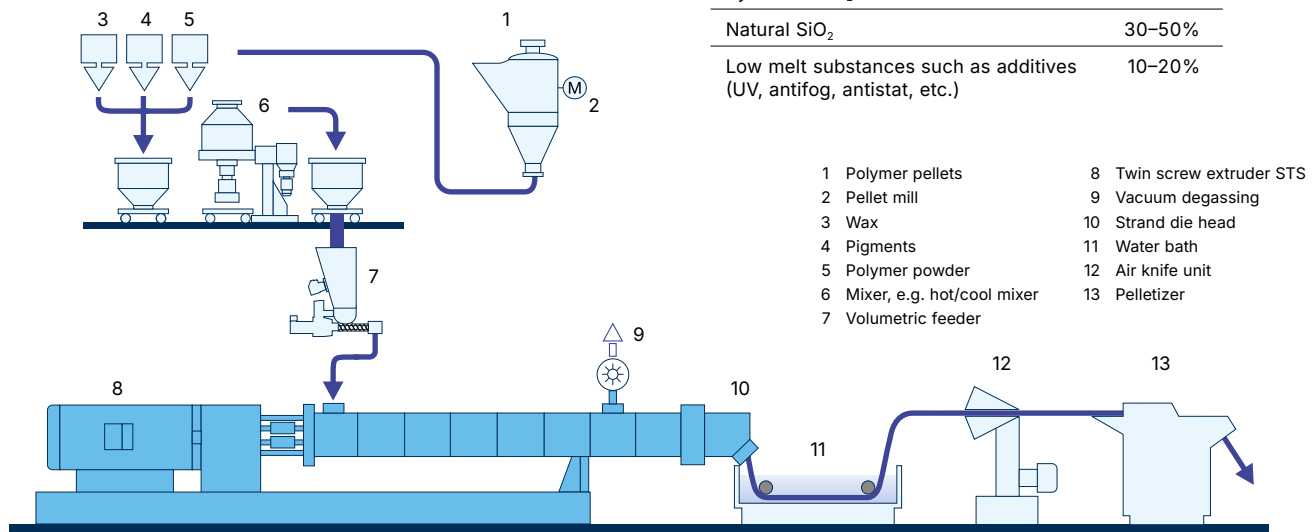


Advantages at a glance

- No loss of product during start-up
- Simple operation of all system components
- Very good shearing behavior to distribute pigment agglomerates
- Quick cleaning when changing colors
- Low investment costs

Pigments/additives

Organic pigments	20–40%
Inorganic pigments	40–60%
Carbon black	15–40%
TiO ₂	50–70%
Synthetic SiO ₂	10–30%
Natural SiO ₂	30–50%
Low melt substances such as additives (UV, antifog, antistat, etc.)	10–20%



Split-feed process

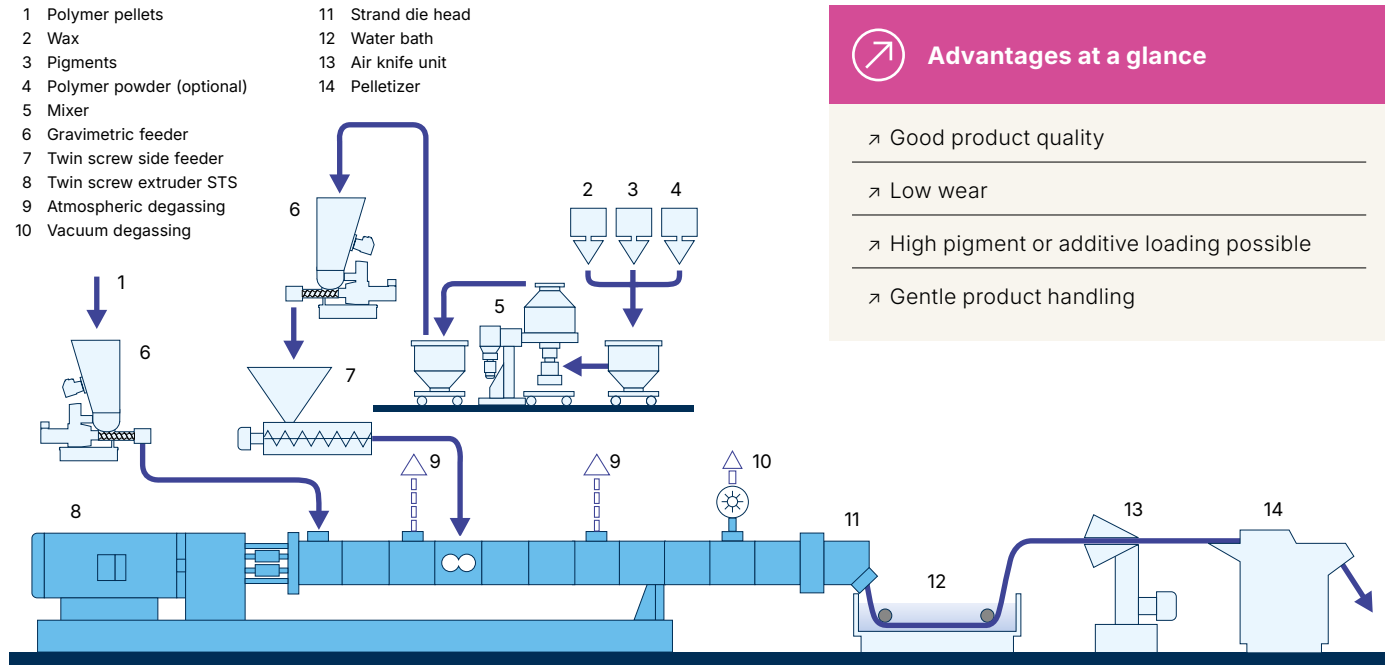
In the split-feed process, the polymer is metered into the up-stream portion of the STS twin screw extruder. After it has been melted, the additional pigments or additives are fed via a twin screw side feeder into the extruder. Gravimetric feeders are generally used in this step.

Recipe ingredients

Base polymers: PE, PP, PS, EVA, PET, PA, PC, SAN, PMMA, ABS, TPE, POM, etc.

Pigments/additives

Organic pigments	40–60%
Inorganic pigments	50–80%
Carbon black	20–50%
TiO ₂	60–80%
Synthetic SiO ₂	20–50%
Natural SiO ₂	40–60%
Low melt substances such as additives (UV, antifog, antistat, etc.)	30–60%



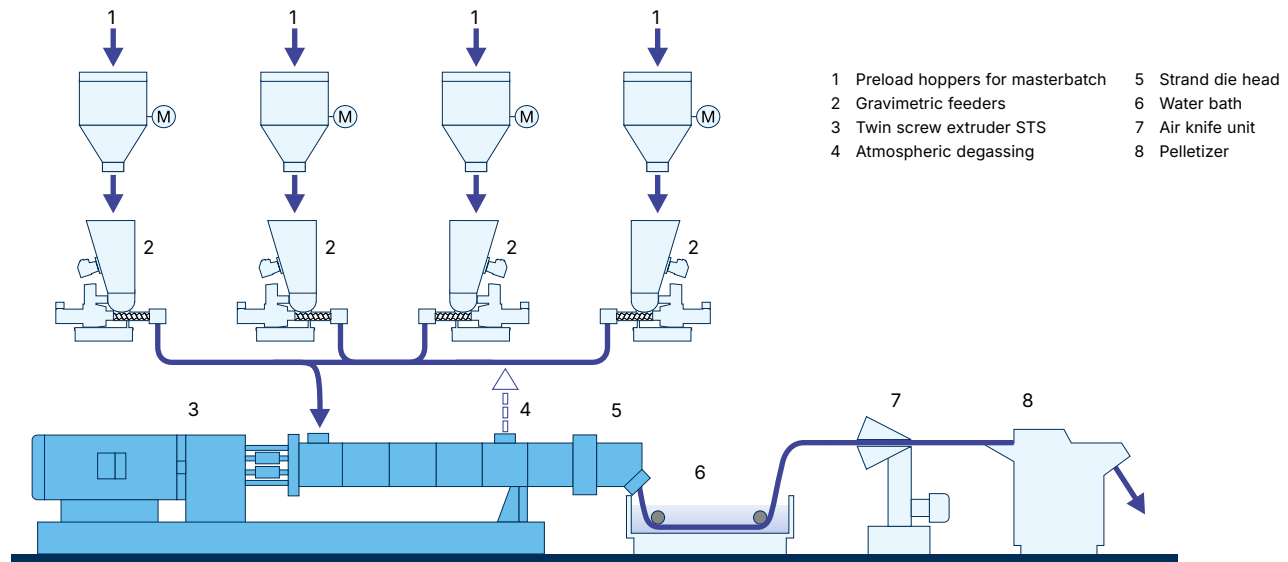
Advantages at a glance

- Good product quality
- Low wear
- High pigment or additive loading possible
- Gentle product handling

Color matching

Both the premix and the split-feed process can be used to manufacture masterbatch with a single pigment type. This product is known as a monobatch, SPC or SPD. Within the color-matching process different monobatches are premixed or fed separately

into the extruder. The STS extruder plasticizes and mixes them, so that the product obtained is a masterbatch with the desired color. Monobatches based on all common carrier polymers are used for this process.



Highlights of the STS in masterbatch processes



Quick cleaning die head

- Simple, quick opening by loosening a few bolts
- User-friendly assembly due to pivoting arm
- Insertion of screens possible by using breaker plates
- Optimized flow geometry with minimal dead space for safe strand discharge, even with highly filled products



Feed hopper in quick-change design

The feed hopper is simply clamped to the inlet barrel and can be quickly removed by loosening the bolts. The quick-release insert which protects the barrel wall from contamination can then be changed very easily.



STS side feeder: with swivel arm

- Swivel arm allows easy docking and optimal alignment to adjacent barrels
- Engineered by Coperion Stuttgart, Germany, equipped with European gearbox, final assembly at Coperion Nanjing, China
- High torque, deep cut screw channels and $D_o/D_i \sim 2$ to achieve high throughput rates
- High pressure built up to 30 bar
- High-low speed motor or frequency control motor
- High manufacturing precision, only 2 mm clearance between side feeder screws and STS twin screws

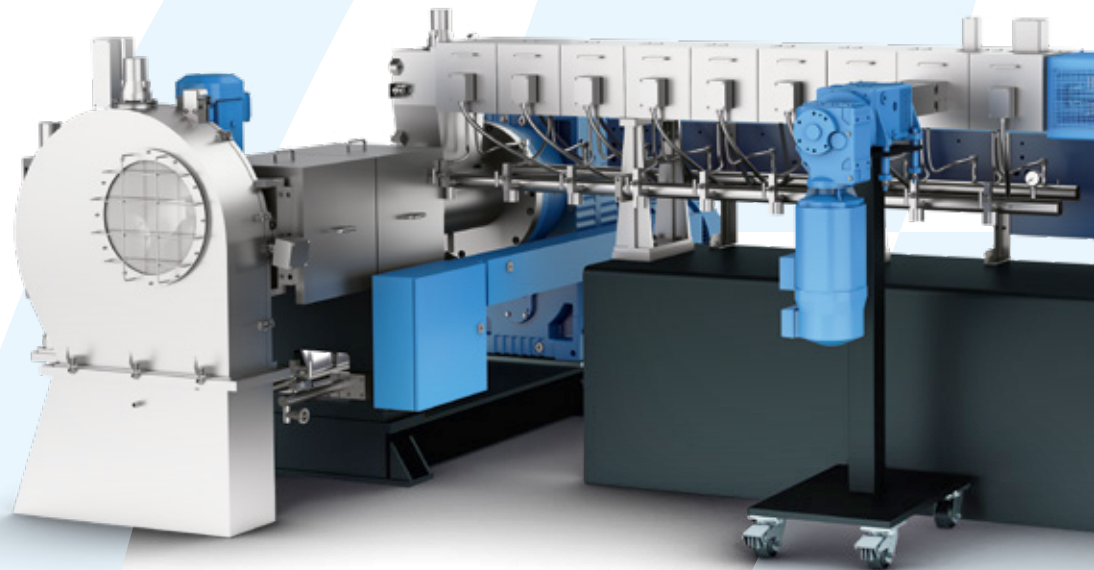


→ STS 35 Mc¹¹ for masterbatch production

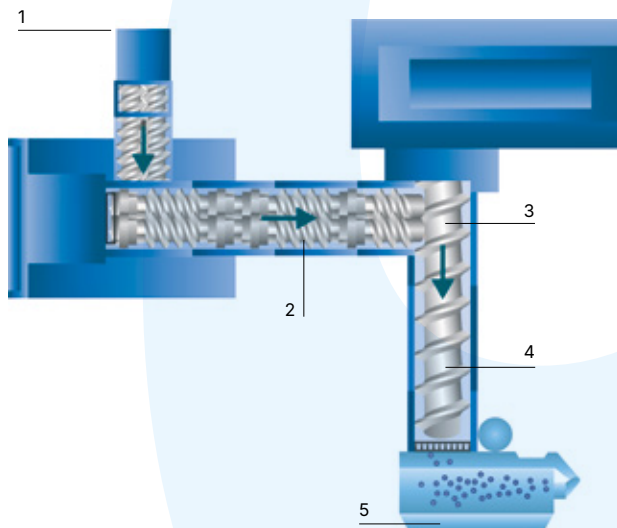
STS Mc¹¹ two-stage compounding system

For the Non-European market Coperion has designed a STS Mc¹¹ two-stage compounding system specifically for the production of temperature and shear sensitive plastics. This two-stage processing system with the STS Mc¹¹ twin screw extruder and a single discharge screw ensures both high product quality and

maximum economic efficiency in the processing of PVC, cables and special compounds. Thanks to Coperion's high standard manufacturing know-how this two-stage compounding system ensures consistency and repeatability of product quality, high throughput rates, more rentability and flexibility.

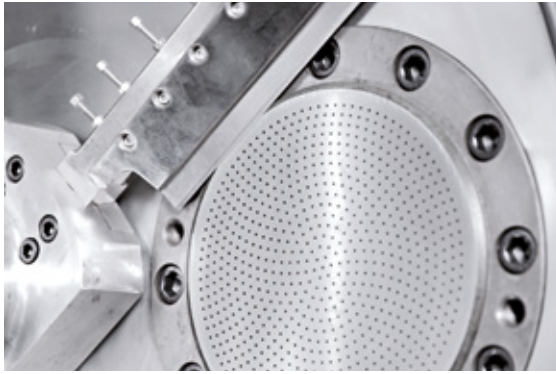


→ Two-stage compounding system STS 75 Mc¹¹/200



Principle of the STS Mc¹¹ two-stage compounder

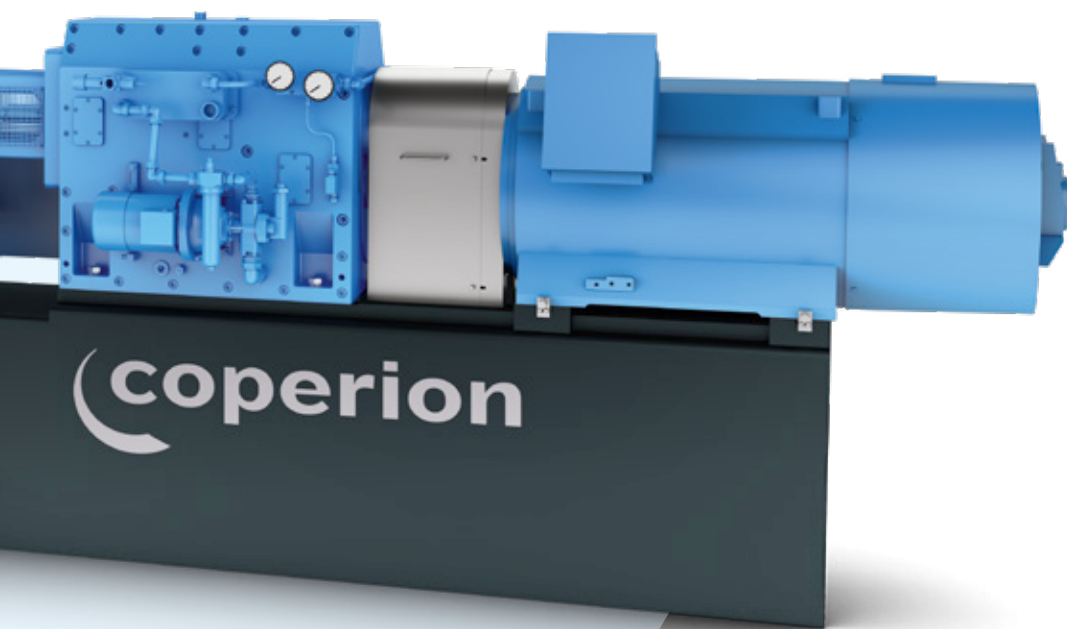
- 1 Feeding
- 2 Plasticizing, mixing and homogenizing in the twin screw process section
- 3 Open, pressureless product transfer into the single screw with the possibility of degassing
- 4 Gentle discharge through single screw
- 5 Air-cooling pelletizing or eccentric pelletizing – optionally available with other pelletizing methods



→ Knife and die plate of STS Mc¹¹ two-stage compounder

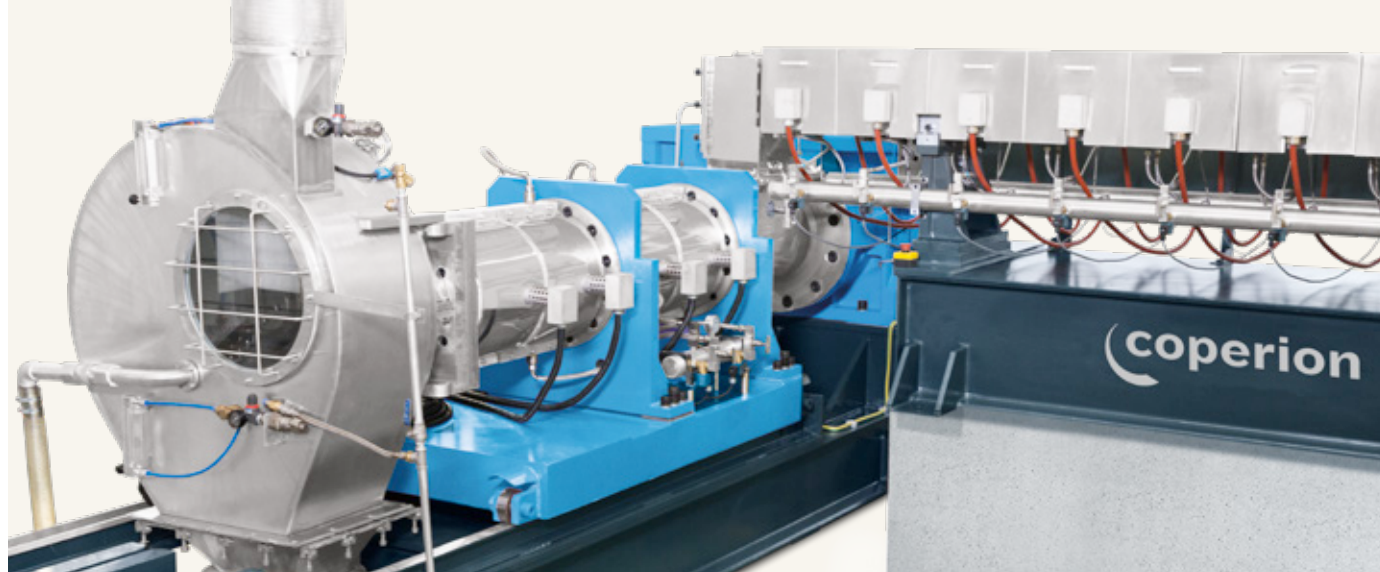


→ Transfer from twin screw to single screw process section



Advantages at a glance

- | | |
|--|--|
| ➤ Excellent feeding properties, even for difficult to feed powders and hot premixes | ➤ Low specific energy input |
| ➤ Gentle product handling, especially in the pressure build-up zone before the die plate | ➤ Effective degassing |
| ➤ Short, defined residence time | ➤ Easily adaptable to new requirements |
| ➤ Uniform product flow through the die plate | ➤ Fast, convenient cleaning |
| ➤ Precise temperature control | ➤ Wide range of applications |



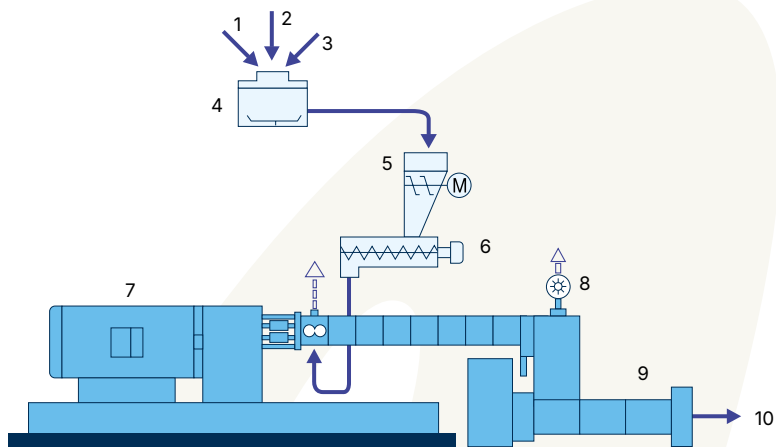
→ Two-stage compounding system STS 96 Mc¹¹/250

Technical data

STS Mc¹¹ two-stage	Max. motor power [kW Hp]		Max. screw speed [min⁻¹]		HFFR	PVC-P	Max. throughput [kg/h lbs/h]		
	Twin screw	Single screw	Twin screw	Single screw			PVC-U	XLPE (DCP) low/medium voltage cables	XLPE (Silane) low voltage cables
35/120	40 54	22 30	600	75	35–85 77–187	105–200 231–441	50–105 110–231	35–100 77–220	35–85 77–187
50/150	110 148	37 50	600	75	100–260 220–573	310–600 683–1,323	150–320 331–705	100–300 220–661	100–250 220–551
65/180	210 282	55 74	600	75	200–480 441–1,058	590–1,000 1,301–2,205	300–700 661–1,543	220–600 485–1,323	220–500 485–1,102
75/200	322 432	75 101	600	75	300–700 661–1,543	900–1,800 1,984–3,968	450–1,050 992–2,315	300–1,000 661–2,205	330–700 728–1,543
96/250	708 949	110 148	600	75	630–1,450 1,389–3,197	1,850–3,460 4,079–7,628	950–2,200 2,094–4,850	700–1,700 1,543–3,748	700–1,500 1,543–3,307
125/350	1,530 2,502	250 335	600	75	1,350–3,100 2,976–6,834	4,000–7,500 8,818–16,535	2,000–4,800 4,409–10,582	1,500–3,700 3,307–8,157	1,500–3,200 3,307–7,055

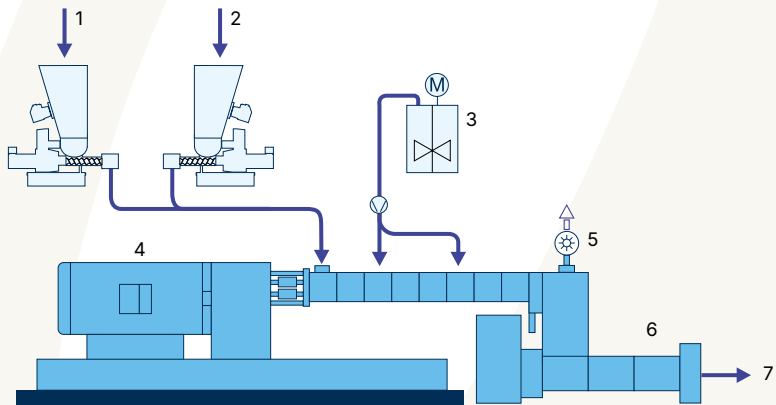
Typical areas of application of the STS Mc¹¹ two-stage compounder

Soft PVC	→ PVC cables: insulation material, sheathing and bedding compounds → Materials for shoes and shoe soles (also PVC-P with foaming agent)	→ Materials for the extrusion of profiles and hoses (including medical applications) → Injection molding compounds → Films and sheets for flooring
Rigid PVC	→ Materials for the extrusion of profiles for interior and exterior uses → Injection molding grades for fittings, etc. → Blow molding grades for bottles, containers, etc.	→ Alloys and blends → Films (calender feeding)
Crosslinkable polyethylene	→ PEX pipe material → Silane crosslinking cable compounds for low voltage applications	→ Peroxide crosslinking cable compounds for middle and low voltage applications
Special compounds	→ Halogen-free, self-extinguishing formulations for cables (HFFR) → Elastomer-based compounds for low, medium and high voltage cables	→ Crosslinkable PE (incorporating peroxide)



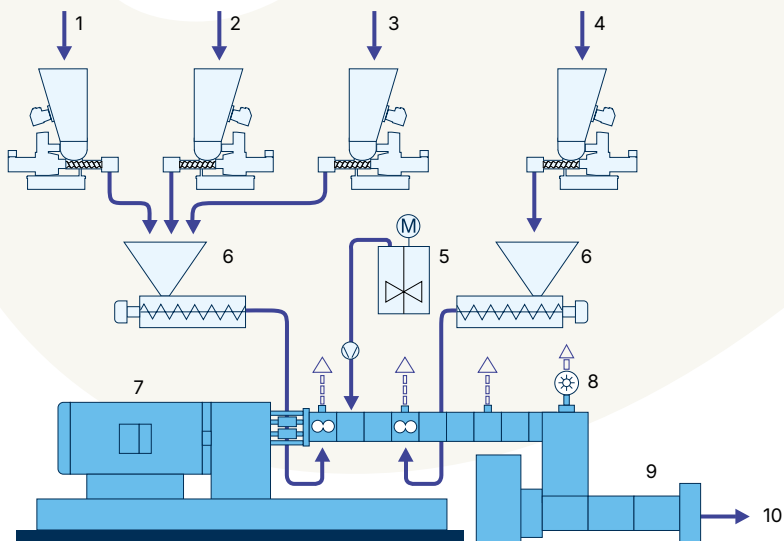
Typical set-up for PVC production

- 1 PVC powder
- 2 Fillers
- 3 Additives
- 4 Hot/cool mixer
- 5 Dryblend
- 6 Twin screw side feeder
- 7 Twin screw extruder STS Mc[®]
- 8 Vacuum degassing
- 9 Single screw
- 10 Pelletizer



Typical set-up for XLPE cable compound production

- 1 PE
- 2 ATH/MDH
- 3 Peroxide
- 4 Twin screw extruder STS Mc[®]
- 5 Vacuum degassing
- 6 Single screw
- 7 Pelletizer



Typical set-up for HFFR cable compound production

- 1 EVA/PE
- 2 Additives
- 3 20% ATH/MDH
- 4 40% ATH/MDH
- 5 Silane
- 6 Twin screw side feeder
- 7 Twin screw extruder STS Mc[®]
- 8 Vacuum degassing
- 9 Single screw
- 10 Pelletizer

Control systems



→ PLC human-machine interface of the STS twin screw extruder

Coperion provides control solutions for twin screw extruder systems individually tailored to customers' requirements ranging from standardized control systems to customized open control systems for complete compounding plants. The control systems for STS twin screw extruders range from relay control to PLC, IPC, and those deeply integrated with Industry 4.0. The Coperion STS extruders' high-quality control systems ensure smooth and efficient production operations. Due to its flexible

configuration, the control solutions can easily be adapted to meet the diverse application requirements across various industries. Designed in compliance with European IEC standards and construction specifications, our systems feature high-quality electrical hardware that ensures safe and stable operation. Additionally, the CE safety design underscores our commitment to providing reliable and secure control solutions for your extrusion processes.



Features of the STS PLC control system

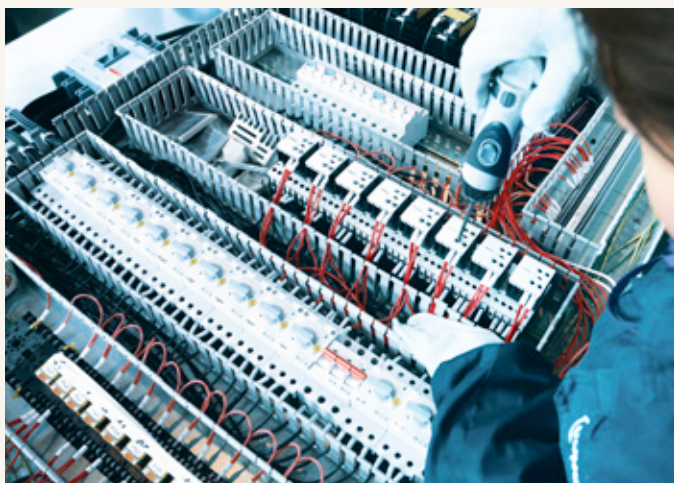
- Engineered with advanced PLC hardware for superior performance and reliability
- Custom-designed programs and an intuitive human-machine interface for effortless operation and user-friendliness
- Feature-rich capabilities including trend display, parameter settings, and data storage for enhanced functionality
- Optimized electronic scale control interface integrated with recipe management, ensuring process safety and precise controllability



Intelligent control and Industry 4.0

The STS control system offers a wide range of technical support for intelligent production:

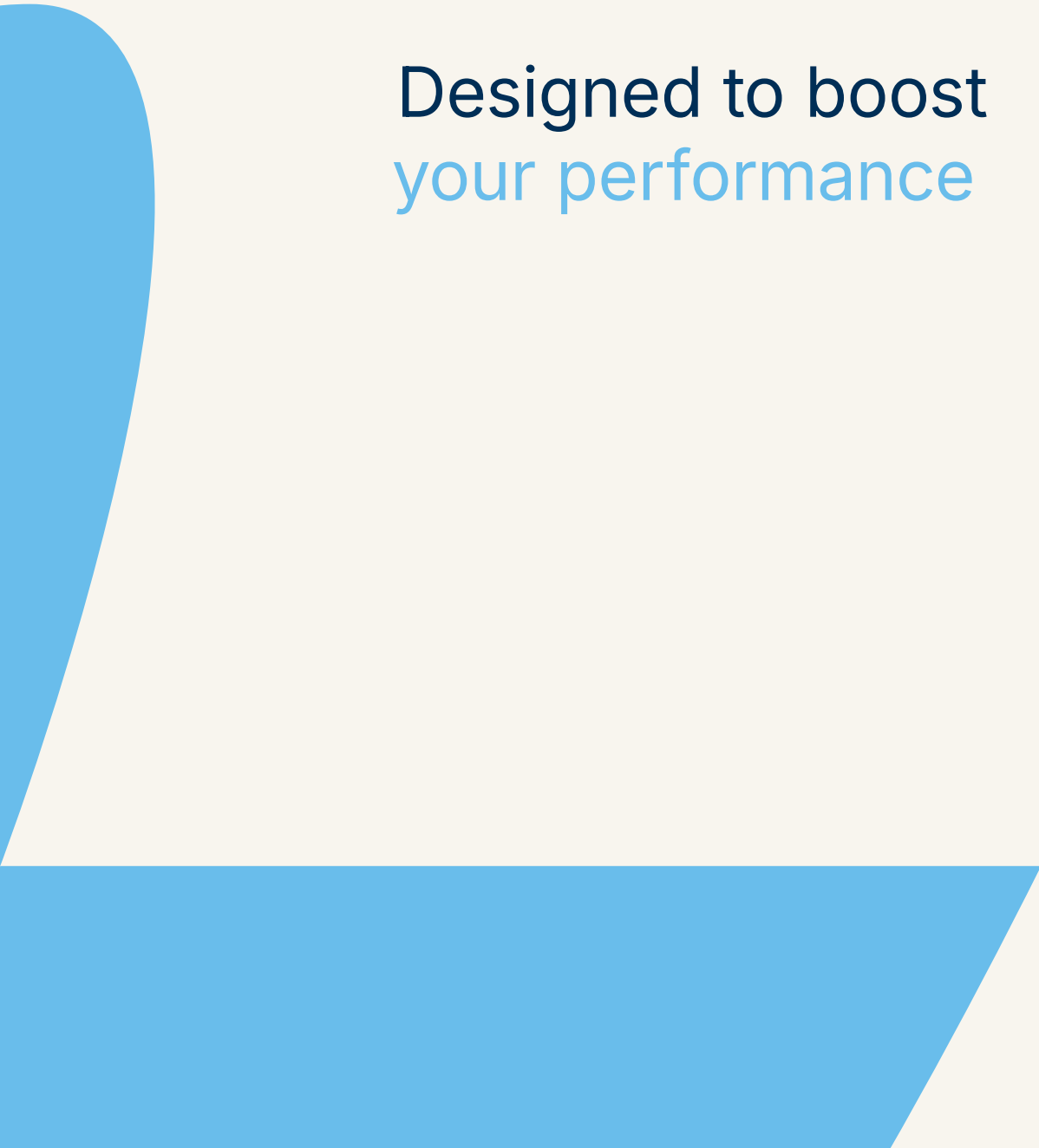
- Secure and reliable remote service module for seamless support
- Expandable IPC industrial control computer module featuring a wealth of data interfaces
- Comprehensive multi-line production monitoring and data management capabilities
- Seamless integration with ERP, SCADA, and other systems for bidirectional data synchronization
- Tailored control systems designed to meet your specific operational needs



Assembly of control cabinets

Coperion Nanjing assembles all control cabinets in-house – according to European standards and regulations. Main electrical components are of world-renowned brands. Relay control, PLC control as well as IPC control systems are available.



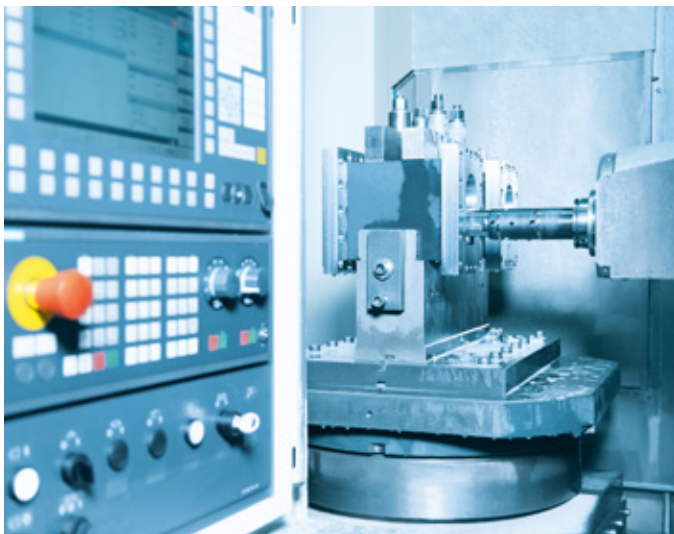
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Designed to boost
your performance

Quality is our benchmark

Coperion Nanjing, China, the production site of the STS series, has undertaken comprehensive initiatives to significantly improve its quality standards. Coperion Nanjing uses state-of-the-art German machining centers and long-proven Coperion quality production norms have been implemented. The production process is very closely monitored, using German high-precision, high-level production and quality measuring machinery and equipment. The Quality Check Plan together with Factory Acceptance Tests (FAT) make every step of manufacturing and

assembly traceable to ensure the high quality of our extruders. Coperion Nanjing manufactures all key components in-house. This includes barrels, screw elements and screw shafts as well as die heads, die plates and the assembly of control cabinets. In-house production ensures that every single component of the STS twin screw extruder is an example of top class technology – so that you can rely on maximum throughput rates and highest product quality.



Barrel manufacturing with Heller CNC machine

The barrels of the STS are manufactured on a machining center of Gebr. Heller Maschinenfabrik, Germany, the leading CNC manufacturer in the world – to ensure high precision machinery parts.



Welding robot

Coperion Nanjing uses advanced, time-tested and reliable technology for the welding of the extruder barrel cooling channel. The fully automatic welding operation ensures stable welding quality for an energy-efficient temperature control of the barrels.

CE certificate

The STS series features a CE certificate issued by TÜV (German Technical Inspection Association). The extruder conforms to European safety regulations, the regulations for the prevention of accidents, the EC Machine Directive 2006/42/EC and the Low Voltage Directive 2014/35/EU.

CERTIFICATE	
of Conformity EC Council Directive 2006/42/EC Machinery	
Registration No.:	AM 50650673 0001
Report No.:	50087838 004
Holder:	Coperion (Nanjing) Machinery Co., Ltd. No. 1296, Jiyin Avenue, Jiangning Economic & Technology Development Zone Nanjing Jiangsu P.R. China
Product:	Extruder (Twin Screw Extruder)
Type designation and serial number are listed on the next page(s) This certificate of conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with all provision of Annex I of Council Directive 2006/42/EC, referred to as the Machinery Directive. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex II of the Directive.	
Date: 2024-11-08	Certification Body <i>Ming Shan</i> Ming Shan 
TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with.	
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Manufacturing of screw elements with DMG machine

For the manufacturing of screw elements Coperion Nanjing uses a machining center from DMG Gildemeister, Germany. It is a one-step production process to ensure perfectly intermeshing screw profiles.



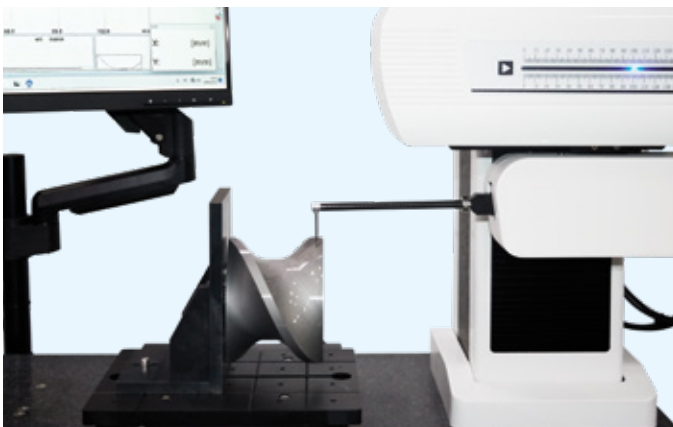
Carl Zeiss 3-dimensional barrel and gearbox inspection center

The 3-dimensional inspection center by Carl Zeiss AG, Germany, checks the dimension range at micron level. A specially designed temperature sensor offers extremely reliable temperature compensation to ensure highest precision. The quality of every single barrel and gearbox is assured and closely monitored.



Faro 3-dimensional check equipment for assembly alignment

During assembly Coperion Nanjing aligns each extruder using a portable arm measuring system. It is a 3-dimensional test instrument of Faro, Switzerland, that ensures high precision, reliable operation under high speed and high torque and minimizes abnormal wear of barrels and elements.



Quality-check of screw elements

The high-precision full-contact profilometer can detect the curve of threaded components and the internal surface roughness.



Laser instrument for alignment of safety clutch

With a non-contact measuring laser instrument, Coperion Nanjing checks the alignment of the safety clutch at micron level – to ensure reliable power transmission.



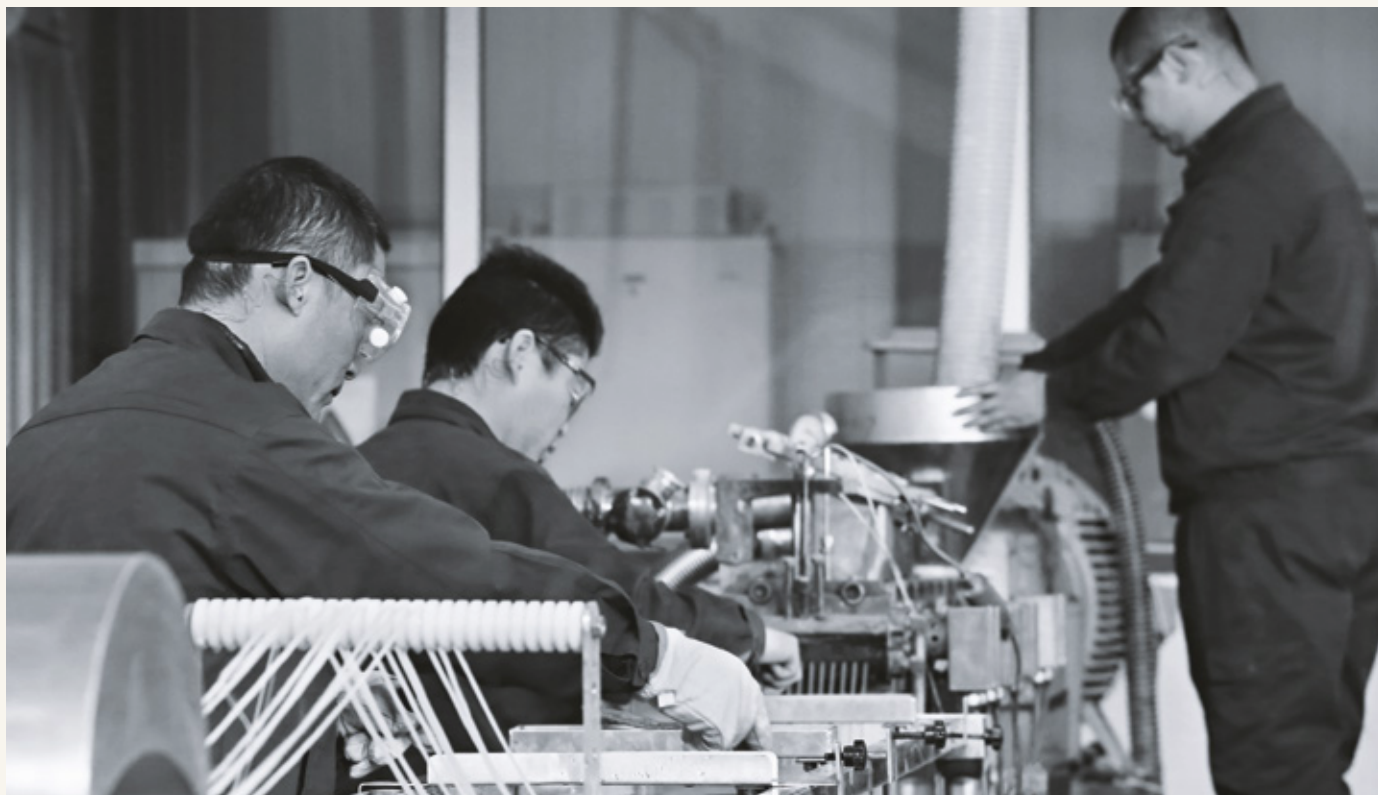
Quality check of raw material composites

The Italian GNR spark direct-reading spectrometer and the American Landau handheld X-ray fluorescence spectrometer together ensure accurate, real-time analysis of raw material composition.

Highest
quality standards

Coperion test centers around the world

Helping you optimize your processes



Coperion has the world's most extensive test labs for compounding and extrusion systems. They support the development of the optimal designs for compounding systems under realistic production conditions, while further enhancing our processing technology through internal tests. The modular design of our twin screw extruders permits them to be set up to the exact specifications of each test.

Depending on the processing task, the latest Coperion developments are integrated into the test set-ups. This allows processes with throughput rates from just a few kg/h up to a medium production scale to be developed or optimized. Coperion experts transpose the test results to production scale with proven scale-up methods.



Equipment of Coperion's test lab in Nanjing, China

↗ STS 35 Mc¹¹

↗ STS 50 Mc¹¹

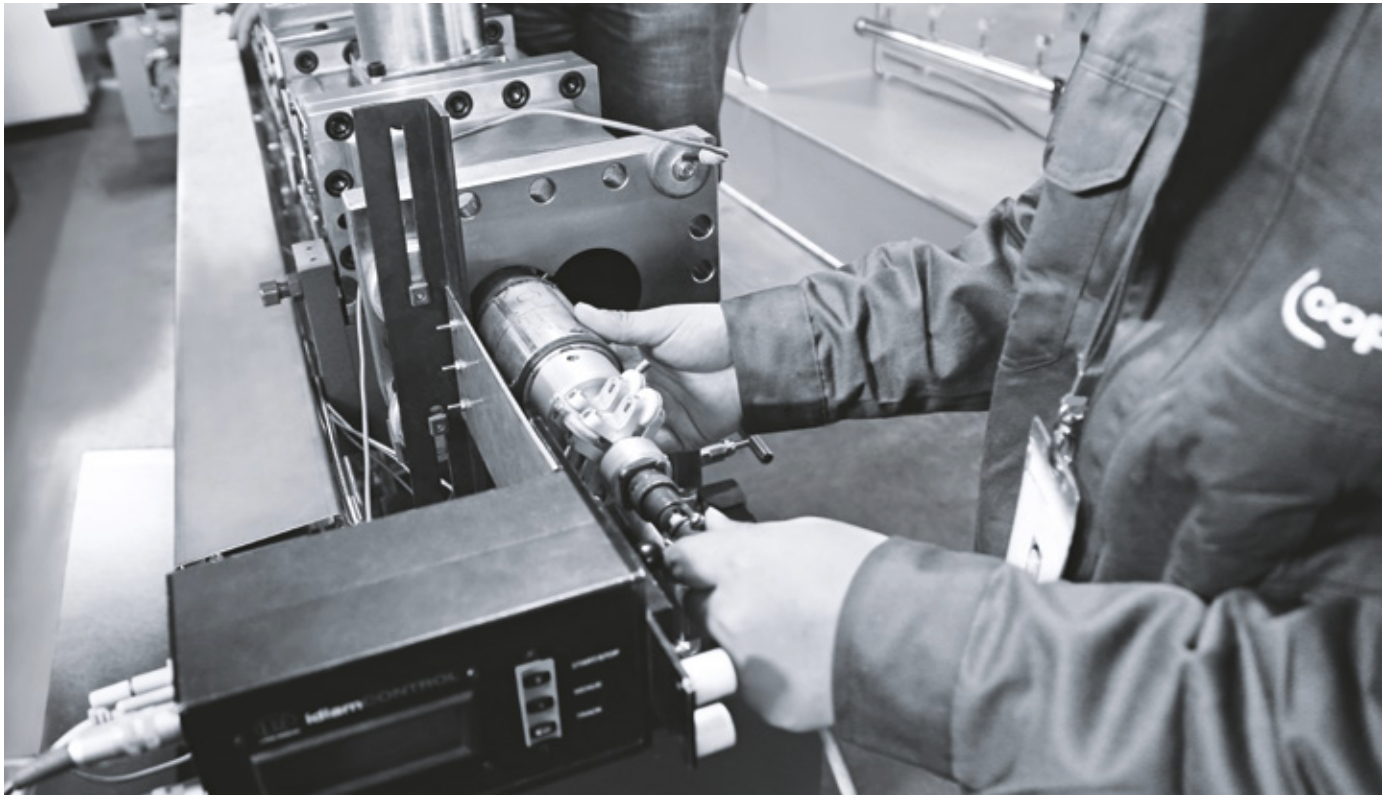
↗ ZSK 32 Mc¹⁸

↗ Comprehensive peripheral equipment for feeding (including Coperion K-Tron twin screw, single screw and liquid feeders), conveying and pelletizing

Test labs for compounding & extrusion

- Test labs in Stuttgart (D), Sewell (USA) and Nanjing (CN)
- A total of 30 ZSK and STS compounding systems worldwide permanently available for testing – from laboratory to large-scale extruder
- Throughput rates from 1 kg/h to 2 t/h
- Affiliated laboratories for real-time analyses of product quality
- Over 60 specialists permanently assigned to process development and application optimization for our customers, including 30 process engineers
- Simulation programs to calculate flow processes, optimize existing processes and the design of individual components

Service that makes a difference



→ Barrel bore measurement on a Coperion STS extruder barrel

Once your compounding system has been installed, we will remain in close contact with you. Our comprehensive range of services and intensive consulting ensure that you benefit from the maximum performance of your systems in the long term. We inspect your entire extrusion system and evaluate the impact of individual services on your overall process. We advise you in all matters – from investment and analysis of existing plants through maintenance and modernization issues.

Comprehensive services

- | | |
|---------------------------|-------------------------|
| → Spare parts services | → Exchange of gearboxes |
| → Barrel bore measurement | → Modernization |
| → Vibration measurement | → Operator training |
| → Gearbox overhaul | → Maintenance contracts |

Headquarters

Coperion GmbH | Theodorstrasse 10 | 70469 Stuttgart, Germany
info@coperion.com | coperion.com

Find your nearest
Coperion location

