



# SMS Concast

Your leading lifecycle-management partner  
for long-product continuous casters





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## SMS Concast – SMS group's competence center for long-products continuous casting

SMS group is a leading global full-line technology partner to the world of metals. SMS Concast is the SMS group's specialist for the continuous casting of semi-finished long steel products – billets, beam blanks and blooms. SMS Concast introduced this technology to the steel industry back in 1954, and has never stopped innovating. Today the pace of innovation is faster than ever and strategic lifecycle management is a key to successful steelmaking.

## Your leading partner for strategic equipment lifecycle management

Equipment lifecycle management from SMS Concast helps you maximize returns on your equipment investments today and over the long haul. We work close with you to find smart solutions in order to make you stay competitive in the future. From designing new casters to optimizing operations, maintenance, consumables, spare parts and repair activities all the way through to innovative modernizations – we'll help you achieve your safety, quality and productivity goals.



**Safety  
Quality  
Productivity**

**BUILD**  
capacity

**MAINTAIN**  
performance

**OPTIMIZE**  
profits





# SMS Concast

Your leading partner for benchmark-setting continuous casters

## BUILD up capacity and train staff for best results

Our specialists are ready to make sure production starts smoothly and on time. However, in the end, it's your people who will make the plant a success. We want to get your staff off to a good start with our equipment and to keep them up to date on the tools and systems they use. That's why SMS Concast offers a comprehensive range of training programs to get the most out of its state-of-the-art continuous casters.

### Supervision and support during erection and start-up

SMS Concast's support starts early, with services that normally include:

- Scheduling of SMS Concast personnel to site
- Consultation with client to establish the erection sequence
- Preparation of erection manual
- Preparation storage instructions
- Consultation on site preparation
- Cold testing under off-load conditions
- Hot testing under on-load conditions
- Complete support through to commercial operation of equipment

### Training and consultation programs

These usually include classroom and onsite training covering:

- Introduction to the equipment, its operation and maintenance, and the relevant metallurgy and process technologies
- Maintenance techniques and programs
- Equipment design features and machine assembly
- Process control concepts and implementation
- Hardware configuration and automation features

### *ArcelorMittal – Great performance and support*

*"The 130 mm round molds have been successfully hot-tested in three sequences. After the first campaign we could clearly confirm that performance is very good and meeting expectations. Thanks a lot for the excellent performance and the support with this project!"*

*Roland Hinterreiter, Maintenance & Investment, ArcelorMittal Ostrava, Czech Republic*





# SMS Concast

Your leading partner for  
smooth caster operations



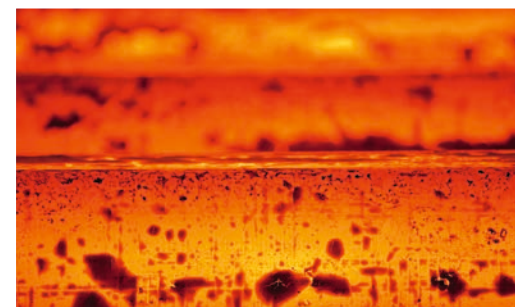
## MAINTAIN maximum caster efficiency

Beyond normal wear and tear, the harsh conditions of continuous casting mean that there can always be unforeseen incidents that lead to downtime. SMS Concast keeps your caster up and running at its optimum with a full range of spare parts, services and real time support:

- Emergency service and fast spare parts delivery
- Troubleshooting
- Remote service 24/7
- Repairs and refurbishments
- Operations and maintenance support
- On-site training
- Condition monitoring
- Computerized maintenance management system
- Warehousing
- Online parts identification\*
- OEM spare parts and consumables
- Advice on reducing operating expenses



\*discover the SMS group's smart web applications on [www.my.sms-group.com](http://www.my.sms-group.com)





# SMS Concast

Your leading partner for game-changing caster upgrades and modernizations

**DON'T LET YOUR CASTER  
BECOME A CANDIDATE FOR  
THE SCRAPYARD!**

## OPTIMIZE profits and extend your caster's service life

The lifecycle of any continuous caster is finite. Over time, something has to give: markets change, casters get old. SMS Concast is ready to help you determine the best next steps to keep your caster humming with:

- Caster check and diagnostics (ExpertShape service)
- ExpertShape mold optimization
- Metallurgical support diagnostics
- General condition monitoring
- Oscillation measurement and check-up
- A broad portfolio of other technological and digital solutions (see next page)

### **SMS Concast – your leading partner for successful caster revamps, offering:**

- Vast experience in designing, and commissioning continuous caster modernizations and upgrades
- Comprehensive metallurgical know-how and advanced simulation tools, developed in-house
- A wide range of technological and digital solutions that can make even small upgrades have a big impact on your continuous caster





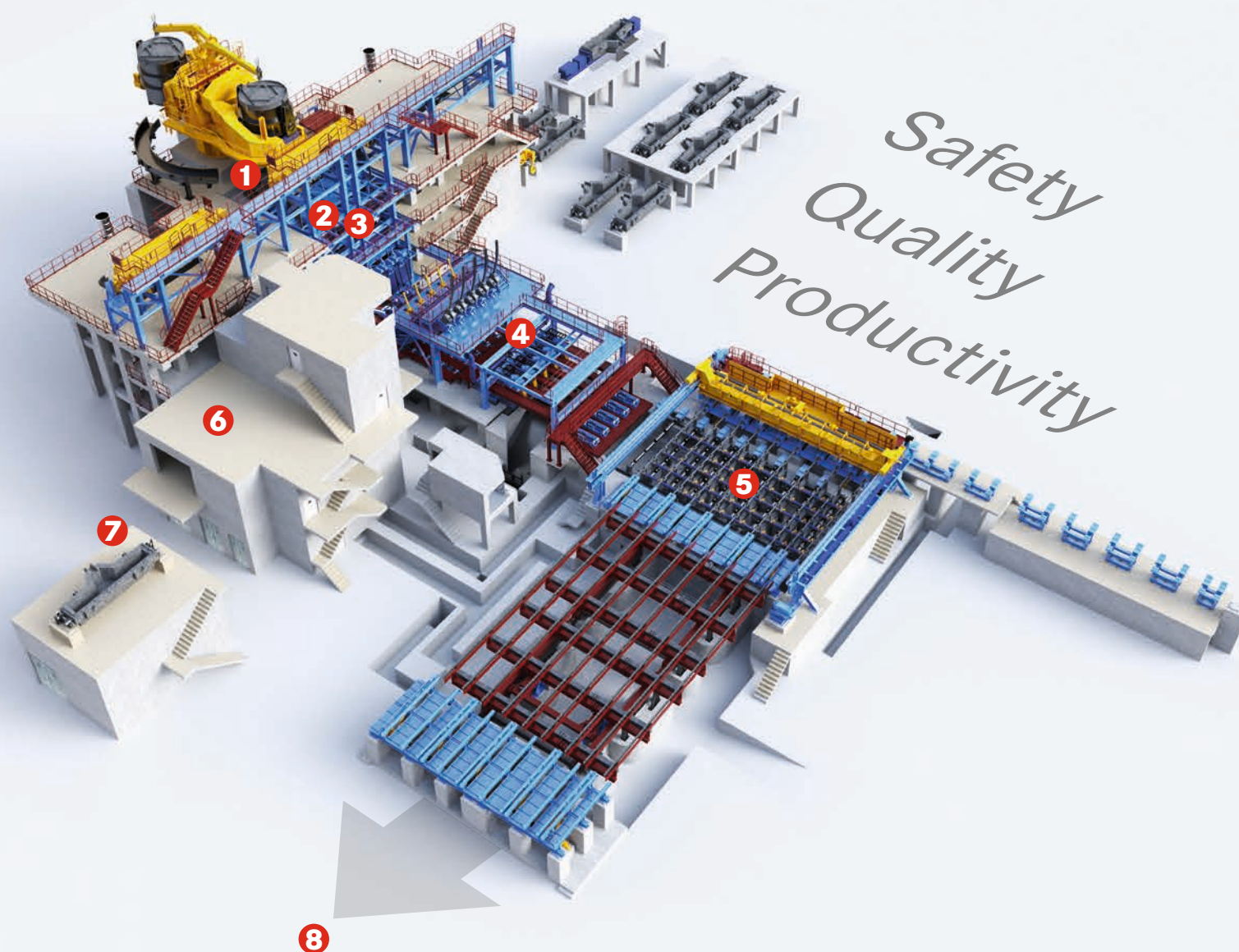
# SMS Concast

Your leading partner for technological and digital solutions

## The future is coming!

Whether you want to introduce new steel grades, replace old equipment or upgrade existing systems, SMS Concast offers a wide range of technological and digital products to help you meet your targets. With its vast experience and innovative ideas, SMS Concast is a strong partner for any plant upgrade. Our deep knowledge of end-markets and our comprehensive process know-how can add substantial value to your project.

SMS Concast can make you ready for the future today!



### 1 Casting platform

Robot applications\*  
SMS Concast – Long Life Tundish  
SMS Concast – Tundish monitoring\*  
CONFLOW – Tundish stopper control  
SMS Concast – Mold level surveillance\*

### 2 Mold tubes

SMS Concast – Mold tubes  
SMS Concast – Plate molds  
ExpertShape – Casting line check-up  
Beam Blank ExpertShape

### 3 Roller apron

CONGAUGE – Steel & powder measuring\*  
CONFEED – Powder feeder\*  
CONSAFE – Thermal mold level control\*  
CONTHERM – Mold thermal mapping system\*  
HD mold – Thermal mold mapping\*  
SMS Concast – Mold oscillation\*  
CONDRIVE – Direct oscillation drive\*  
SMS Concast – Oscillation check-up  
CONSTIR – Electromagnetic stirrers  
CONSTIR-MWS – Modulated wave stirring\*  
AIRMIST – Spray nozzles  
CONCOR – Guiding roll for beam blanks  
CONCOR – Guiding roll for blooms  
CONSEAL – Starter pieces

### 4 Roller table

SMS Concast – Deburrer  
SMS Concast – Weighing systems\*  
CONSHAPE – Cross-section checker\*

### 5 Discharge

CONMARK – Product marking machine (PMM)\*  
CONREAD – Optical product recognition (OPR)\*

### 6 Control room and simulations

COOL – Real time solidification model\*  
COOL – Offline simulation software\*  
SMS Concast – Simulation services\*  
SMS Concast – Level 2 caster control system\*  
SMS Concast – Quality assurance module\*

### 7 Workshops

SMS Concast – Mold-ReNew  
SMS Concast – General overhauls  
RFID Tracking\*  
SMS Concast – Mold measurement\*  
HD lasr – Laser segment alignment\*  
HD scan – Digital microstructure mapping\*

### 8 Warehouses

CONYARD – Warehouse management system\*

#### SIAM YAMATO – high quality tubes

*“We have been using spares and mold tubes from SMS Concast for years and were always content with the quality and service.”*

*Mr. Piya, Production division manager of Siam Yamato, Thailand*

We are committed to helping our customers meet the steelmaking challenges they face today and tomorrow. Technology is bringing change, and so are new product applications and shifting markets. Let's find out what we can do to improve your plant's productivity, reliability, product quality and profitability.

Learn more about our products and services at [www.sms-concast.ch](http://www.sms-concast.ch) or contact us directly.

\*an Industry 4.0 solution from SMS Concast/SMS group



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