



WHICH TRUSTED TECHNOLOGY IS PRODUCING
OVER HALF OF THE WORLD'S COPPER ROD?





SOUTHWIRE TECHNOLOGY

SOUTHWIRE® KEEPS YOU COMPETITIVE WITH LOW-COST, RELIABLE PRODUCTION

If you are producing continuous-cast copper rod, you already know Southwire's name. Southwire Company has been an innovator and technology leader in copper rod manufacturing since the 1960s. Today, Southwire's SCR® systems provide more than half of the copper rod continuous-casting capacity in the world.

There is a good reason. We are the *only* equipment manufacturer that produces electrolytic tough pitch (ETP) rod every day using our own equipment. Over 90 percent of the copper used for electrical applications is ETP copper. We started using our continuous-casting systems in our own wire-making business in 1965. From the very beginning, we have been improving our systems for lower-cost production, high reliability

and simplified operation—and sharing the knowledge with our customers.

When you buy an SCR system from Southwire, you have more than just proven machinery with a wide range of options. You receive state-of-the-art technology, complete training and continuing technical support. You also have access to the experience and continuing improvements of more than 65 other SCR users, through the SCR Technology Pool.

The SCR system makes you competitive when you install it. It will also *keep* you competitive as markets and technologies change.

Meet your unique needs with SCR systems

No two rod-making users' requirements are exactly alike. Whether you need high- or low-volume output, round rod or flats, large sizes or small, your operation is unique.

Whatever your needs, Southwire can tailor a system to fit them. Southwire SCR systems have capacities ranging from 5 to 45 metric tons per hour. SCR systems let you produce many different sizes of copper rod and flats, using a variety of fuels and copper source material.

Southwire experts can help you choose the best system to meet your capacity and product requirements. You will get high reliability and lowest cost per ton of production.

Your SCR system goes into production quickly. Our proven performance and reliability ensure fast start-up after commissioning. That gives you faster return on your investment.

Technical support helps you succeed

Southwire's commitment to your success goes far beyond simply selling you machinery. You get support from project concept to commercial operation—and beyond. You get expert engineers on your site to help make sure construction and initial production go smoothly.

We will share our experience with you. Your staff receives training so our expertise becomes yours. We have successfully transferred our technology to over 65 companies. We have trained

many teams of operators to make top-quality copper products.

You also get guidance in system maintenance, replacement parts programs, and continuing technical support and technology improvements. Available field services include operations reviews and help with specific problems like quality or production. Southwire support helps assure your success.

SCR Technology Pool supports continuous improvement

One of the biggest benefits of owning an SCR system is your membership in the SCR Technology Pool. Over 65 companies—producing more than half the world's copper rod—participate in the SCR Technology Pool.

As a Technology Pool member, you can meet and exchange valuable technical information at major conferences. Between conferences, you can communicate informally and make use of Southwire's SCR user's newsletter to keep your operation up-to-date—and competitive.

Technology Pool members also have access to the latest SCR technology, with no royalties. SCR system owners have seen technology benefits including: dramatic increases in casting-wheel life; continuous advances in control equipment; an AMPS™ metal pouring system that improves the quality of the cast bar; sophisticated CO analysis equipment; and improved combustion control. These all lead to improved rod quality at lower cost.



State-of-the-art control technology and proven production machinery deliver the highest reliability and lowest cost per ton.

Southwire continuous-casting technology

1 LOADER

Reduced handling increases productivity.

2 MELTING FURNACE

Automatic controls and multiple-fuel capability reduce energy costs. Easy-to-use operator interface cuts training time.

3 HOLDING FURNACE

A simple, robust design delivers high reliability.

4 CASTING MACHINE

Easy set-up, maintenance and operation increases productivity.

5 AUTOMATIC ROTARY SHEAR

Heavy-duty design gives long life and reliable operation.

6 BAR PREPARATION MACHINE

This station features long-life cutting tools, plus easy adjustment for close control and accurate bar straightening.

7 MORGAN NO-TWIST® ROLLING MILL

The mill delivers high tonnage and high uptime. It produces excellent rod tolerances and superior surface quality.

8 CLEANING AND COATING SYSTEM

A non-acid cleaning and coating system reduces the cost of removing surface oxidation.

9 COILER

A Morgan coiler produces orbital- and spiral-wound coils up to 10 tons.

10 COIL-HANDLING LINE

Southwire offers numerous options for efficient coil removal and automatic coil packaging.

SCR systems from Southwire protect your investment

Continuous-casting facilities are major investments in complex technology. A prudent analysis points to the industry leader, Southwire.

Southwire is the largest maker of electrical wire and cable in the Americas. We operate numerous manufacturing facilities worldwide. We focus on making quality products, delivering them on time and giving

you excellent technical support. We do it all at a competitive cost.

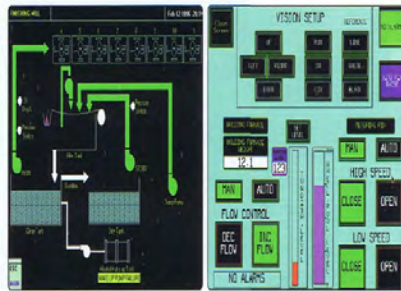
The key to cost-competitive, high-quality rod production is technical strength and continuous improvement. Southwire puts nearly 50 years of continuous-casting experience at your disposal. We have been supporting continuous improvements in SCR technology in international markets since 1966.



SCR systems offer you the most advanced technology. You also get continuing support that protects your investment and keeps you competitive.

SCR systems give you flexibility and precise control

- ◊ Rod diameters up to 25mm
- ◊ Flats up to 8 x 27mm
- ◊ Capacities from 5 to 45 metric tons per hour
- ◊ Multi-fuel furnaces
- ◊ Automated control systems
- ◊ Advanced rolling-mill technology
- ◊ Labor-saving coiling and packaging
- ◊ Coil weights up to 10 tons

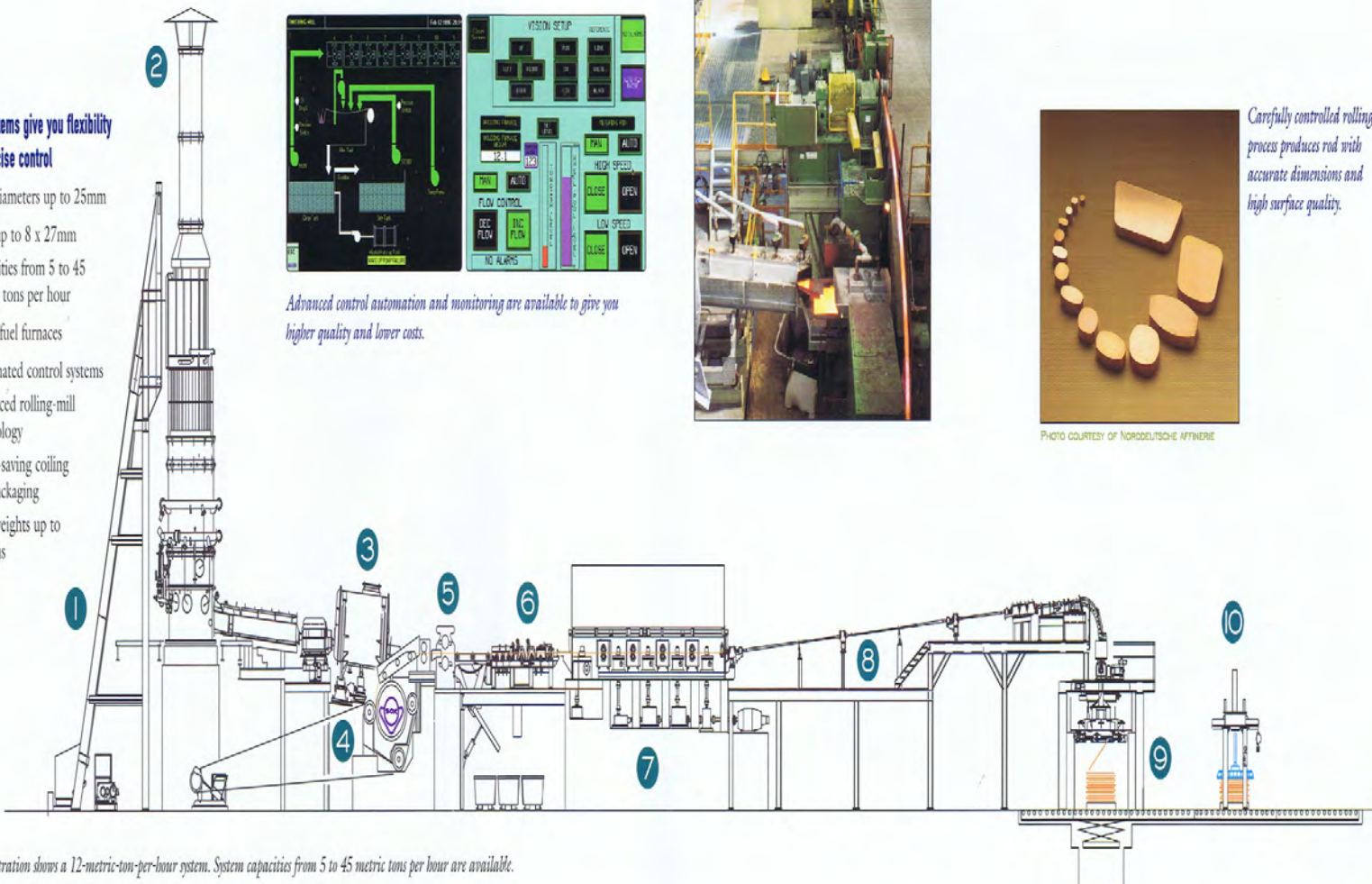


Advanced control automation and monitoring are available to give you higher quality and lower costs.



Carefully controlled rolling process produces rod with accurate dimensions and high surface quality.

PHOTO COURTESY OF NORDDEUTSCHE AFFINERIE



The illustration shows a 12-metric-ton-per-hour system. System capacities from 5 to 45 metric tons per hour are available.



LOADING SYSTEMS

Simple loading system design and rugged construction deliver very high reliability. You can load many forms of copper charge material with minimum handling.



AMPS METAL POURING SYSTEM

The AMPS metal pouring system precisely controls flow to the casting machine. You get higher-quality rod—and more consistent rod.



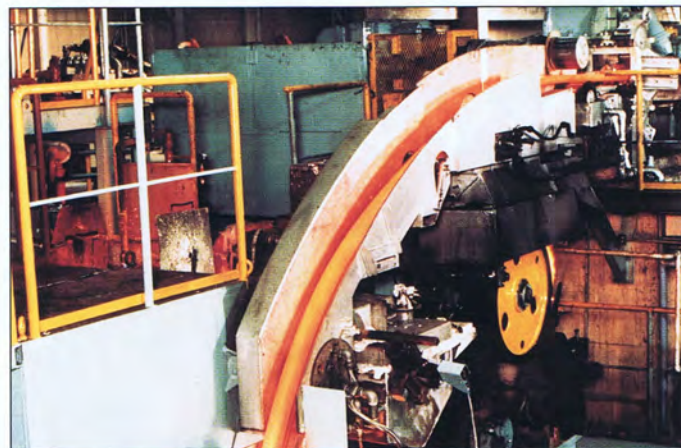
SOUTHWIRE SHAFT FURNACE

High thermal efficiency and automatic air-fuel ratio control cut fuel costs. By using the ARC™ fuel-control system, you get faster response, reduced oxygen at start-up, fewer control points and reduced maintenance. Low-noise operation improves working conditions and reduces environmental impact.



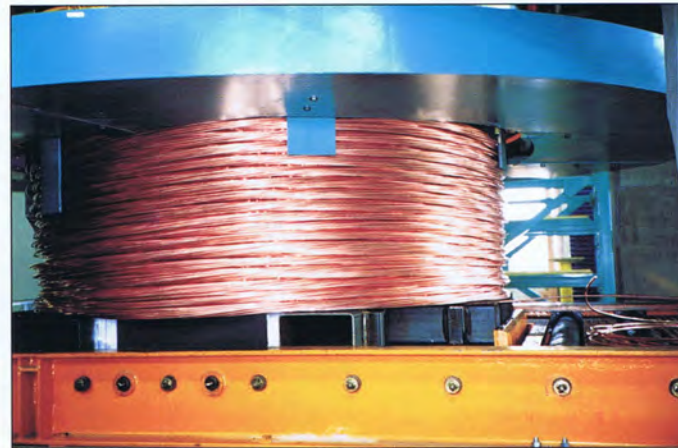
MORGAN NO-TWIST® ROLLING MILL

Durable, rugged, No-Twist rolling mill is made by Morgan Construction Company, an industry leader with over 100 years of experience. You get easy set-up, long roll life and low maintenance. Cantilevered mill rolls with hydraulic mounting speed roll changes.



CASTING MACHINE

Vertical mold orientation reduces trapped gases. Southwire design delivers long mold life and low maintenance requirements.



COILER AND COIL HANDLING

The Morgan coiler produces both orbital and spiral-wound coils to meet your individual requirements. Available options include automatic: compacting, strapping, bagging, pallet loading, weighing and tag printing.

YOU CAN TRUST SOUTHWIRE TECHNOLOGY.

Find out why Southwire SCR systems are trusted to produce over one-half the world's copper rod. Learn more about the continuous improvements in efficiency and technology enjoyed by SCR Technology Pool members. Contact Southwire today.

To see SCR technology at work, call for a tour of Southwire's copper rod mill or one of our licensee's plants. We can help you define production goals and choose the appropriate system for reliable, low-cost production.

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