

Wire machinery. Trusted.



# KOCH. TRUSTED.

People. Machines. Values.  
Everything that's important to us.





## KOCH. Trusted.

Koch is one of the world's leading manufacturers of wire-drawing machines. We develop, build and plan innovative technologies at the heart of the wire industry. Competence, fairness and reliability are just some of the values that make the difference for customers in more than 60 different countries.

Get to know us.

## Fairness

*"Fairness and reliability form part of our fundamental values. We listen, we consult and we realize projects – all with respect for our customer and for the task."*

## German engineering

*"Comprehensive advice, technical expertise, excellent build quality, high safety levels and punctuality – that is what we understand by German engineering."*



Jochen Koch, Managing Director



Thomas Voss, Managing Director

## Made in Sauerland, used throughout the world

*The heart of the wire industry has always beaten in Germany's Sauerland region. Countless rivers and streams weave their way through Germany's Central Uplands – which in the past used to provide the ideal conditions for powering wire machines. This is where we come from. It is the base from which we supply more than 60 countries. Our roots are in Sauerland, but we're a true global player – a unique combination for driving your success.*

## Representing our values

*From our first discussion together all the way to commissioning, a KOCH project manager will look after your plant project – fairly, reliably and competently. We carefully monitor costs and deadlines from the outset and as the project progresses. It is this commitment which our customers appreciate – as they have done for more than 90 years.*



Oliver Funke, Area Sales Manager



Axel Koch, Area Sales Manager



Wolfgang Nölke,  
Head of Aftersales Service



Felix Loch,  
Head of Electrical & Software Design Department

## Competence

*“We accompany our customers from the initial request all the way through the entire life cycle of our machines. We build complete production lines – including every component. This is where our years of experience in overseeing large-scale projects pay off.”*

## Safety and security

*“Project management at KOCH means security of planning, safety in every technical process and security of cost.”*

## Commitment

*“Flexible, personal, committed – these aspirations apply inside our company and when we work with our customers – at all times and in every corner of the world. We remain a committed partner in every respect, including after selling our machines.”*

## Technological leadership

*“We have been setting innovation landmarks in the industry for more than ninety years. And our new developments will continue to ensure the safety and economy of our processes in the future.”*

## Areas of use

At KOCH, we know the needs of different industries. And we have one aim: to enable you to make the best-quality wire product possible, in the most economical way. We believe that every machine is different, just as every customer is.



## Pre-stressed concrete steel wire

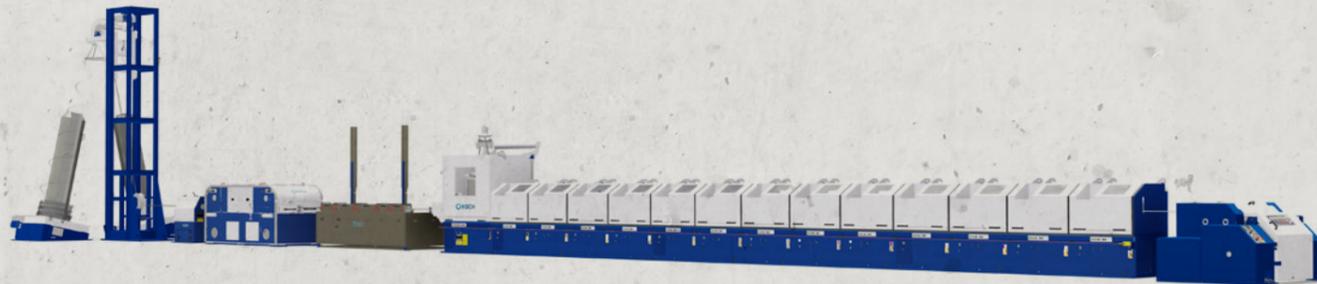
Our completely revised pre-stressed concrete steel wire drawing line achieves new levels of performance. This 9-block machine manufactures wire with diameters of between 3 and 7 mm at a remarkable speed. As with many KOCH systems, OTA technology is used to produce a high-quality end product.

This production line features a new pay-off system. Every conventional spooler type is available, including fully automatic ones. Despite a 1,200 mm drawing capstan diameter and high-end Siemens central electrical components throughout, we kept an eye on costs when developing this new system. As a result, the price of this top-level technology is highly attractive.

## Wire for steel fibres

Steel fibres for concrete reinforcement are essential to many sophisticated structures. Many hundreds of thousands of tons of this special wire are drawn in Western Europe each year, much of it using KOCH machines.

Final dimensions of 1 mm and less allow remarkable speeds of up to 50 m/s in the drawing process, yet even at that speed our machines achieve top quality. A complete production line includes a wire pay-off, efficient wire pre-treatment and a drawing machine which generally has 14 blocks. The spooler can accommodate a filling weight of 2-tons.



## Bright wire

Bright wire has to be uniform, low in depth-of-roughness, and possessing a particular level of residual lubricant coating. KOCH machines fulfil these requirements especially well, using features such as efficient yet gentle mechanical descaling or special soap boxes for specialised drawing technologies.

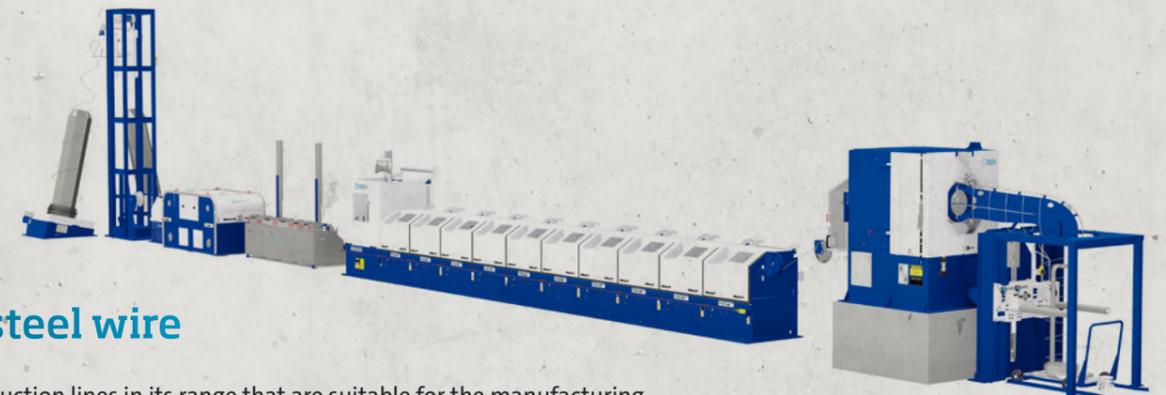
These systems are augmented by heavy-duty coilers and spoolers to accommodate the wire. Specialised spools are often used for layer/layer winding.



## Spring steel wire

KOCH has production lines in its range that are suitable for the manufacturing of technical springs which are subjected to high and dynamic loading, as well as upholstery springs. Our modern OTA system, featuring fully electronically controlled backpull, achieves the ultimate in wire quality – without the critical influence of a tuner roller.

Upholstery spring wire has been produced on KOCH machines for years, often in one working process from wire rod to the finished product. Integrated pre-treatment is uncompromising, and our drawing machines achieve highest speeds without sacrificing quality. A drawing coiler at the outlet guarantees a perfect finished product.



## The end product

It is truly astonishing just how widely wire is used. Automotive springs, bridge cables, ultra-fine medical wire – there are very few technical areas that don't rely on this all-rounder. Our machines ensure that the end product is of consistently high quality.

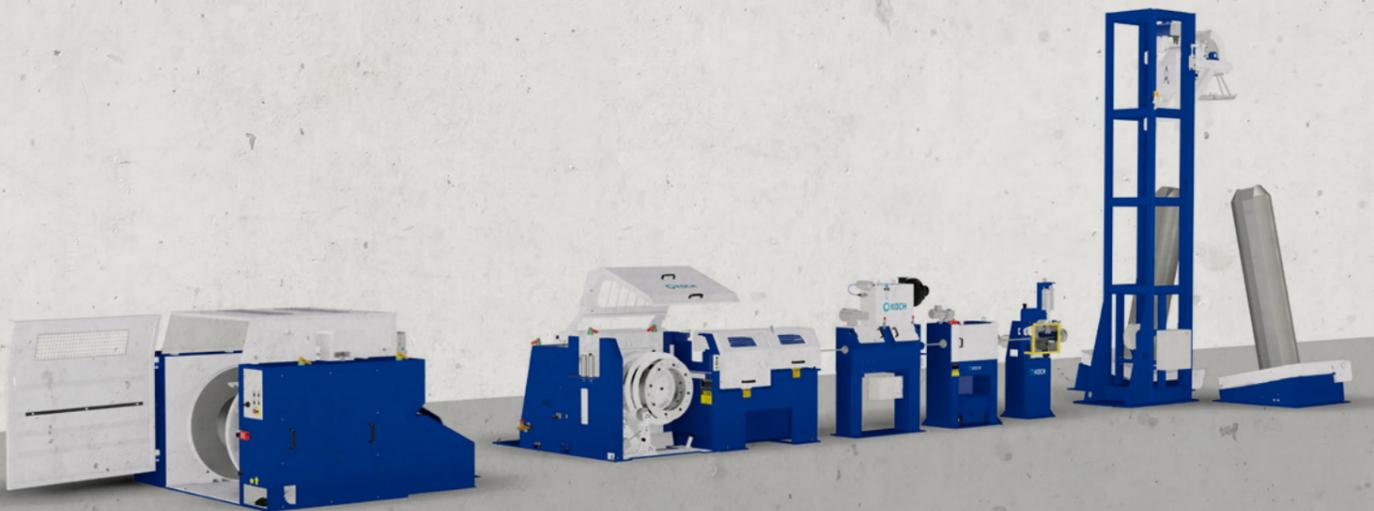




## Concrete reinforcing steel wire - stretching

To complement conventional cold-rolling lines, KOCH has fully automated stretching systems in its range. They are designed to cope with long-term burdens on account of their extremely durable machine bodies.

Just like our cold-rolling systems, our stretching systems produce concrete reinforcing steel wire that fulfils the standards stipulated by legislators and the building industry. That is why almost every large concrete reinforcing steel manufacturer uses our ultra-modern production lines. KOCH stretching lines are largely automated and are equipped with integrated coil strapping including labelling and transport systems.



## Concrete reinforcing steel wire - cold-rolling

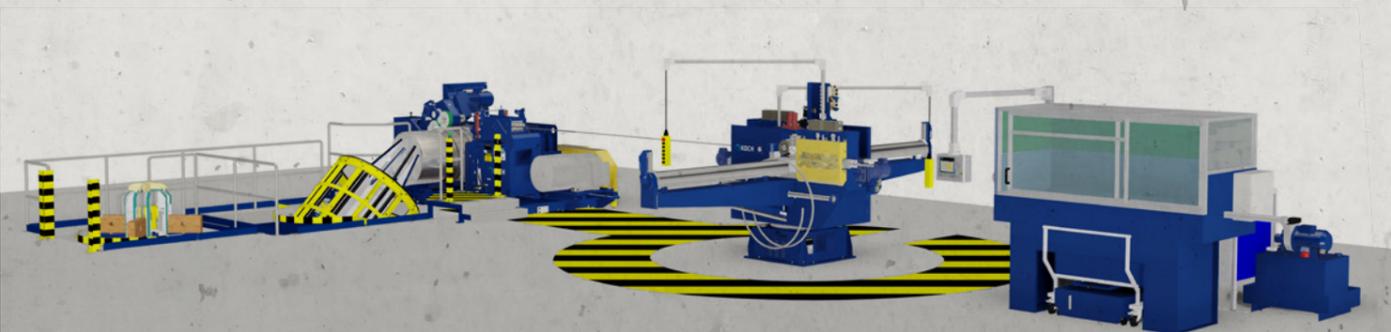
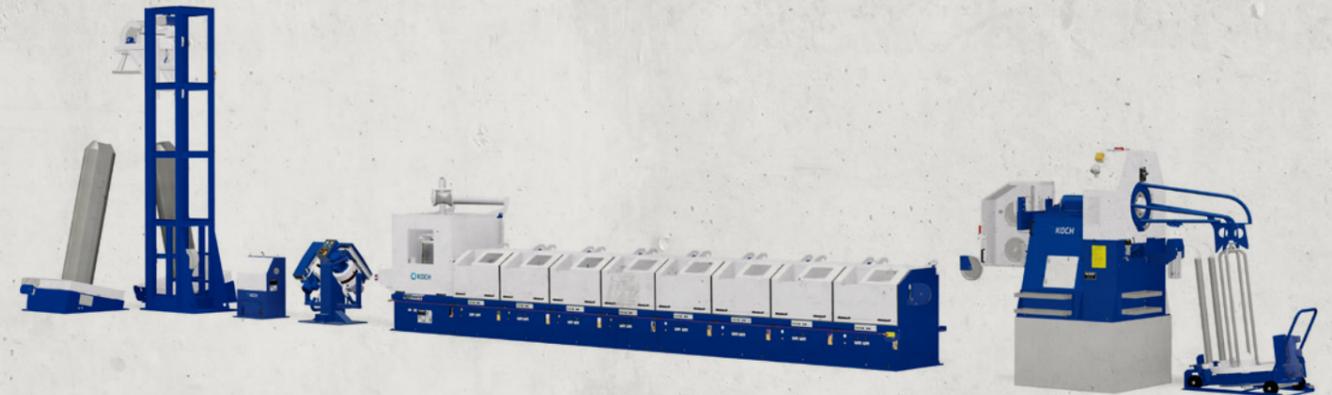
Ribbed concrete reinforcing steel wire with a diameter of 3 to 20 mm is a very popular end product in the building industry. Our systems are characterised by their high productivity, which is why we generally employ a specialised pay-off tower right at the start.

The heavy drawing line is equipped with special rolling units. A downstream spooler can accommodate fill weights of 3 tons of wire, either on coils or on machine spools. Vertical and horizontal spoolers, manual or fully automatic spool changing – KOCH can offer a wide range of wire collecting systems that fulfil every requirement.

## Nail wire

Manufacturing nail wire has been one of the standard applications performed by KOCH machines for decades. It is generally done using low-carbon steel wire, which is given the appropriate dimensions and strength in the drawing process.

KOCH drawing systems for this application consist of mechanical descaling systems and a multiple drawing line, usually consisting of 4 to 7 blocks. Our systems allow the optimum residual lubricant coating to be set accurately on the finished product for the subsequent process. Finished wire is typically taken up on wire carriers using a static coiler.



## Cold heading wire

Cold heading wire encompasses a wide range of diameters of low- and medium-alloyed steels. Our close ties with wire manufacturers in Altena and environs enable us to continuously develop this machine technology in line with industrial practice.

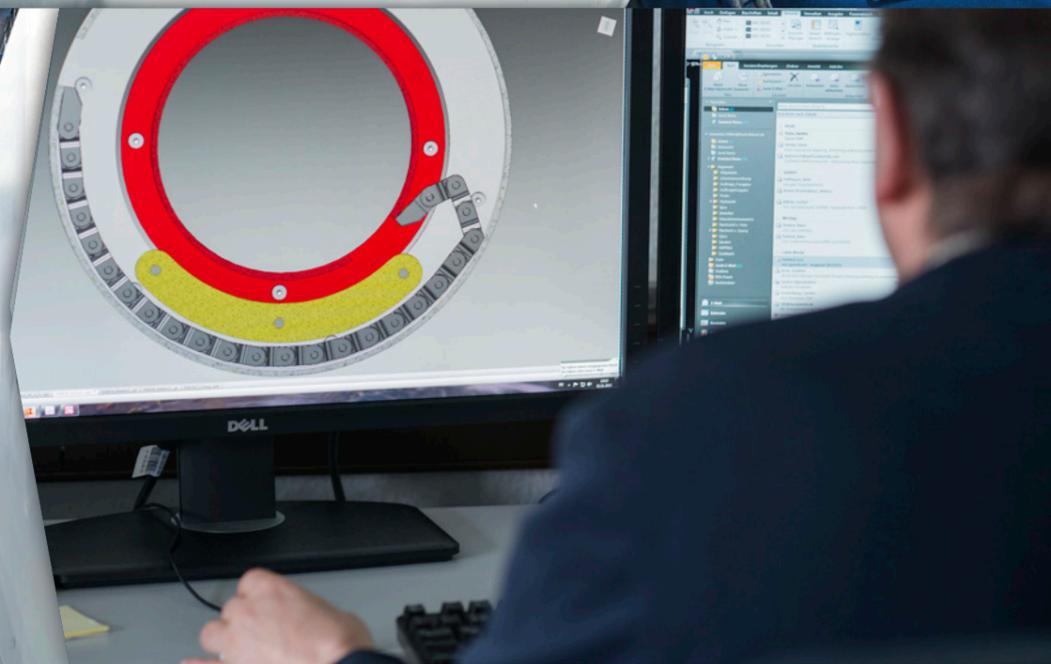
KOCH horizontal drawing systems have proven especially effective for large diameters of above 20 mm. Wire diameters of up to 50 mm can be handled from coil to coil. An automatic pull-in dog enables these machines to be operated ergonomically and efficiently.



## Project planning

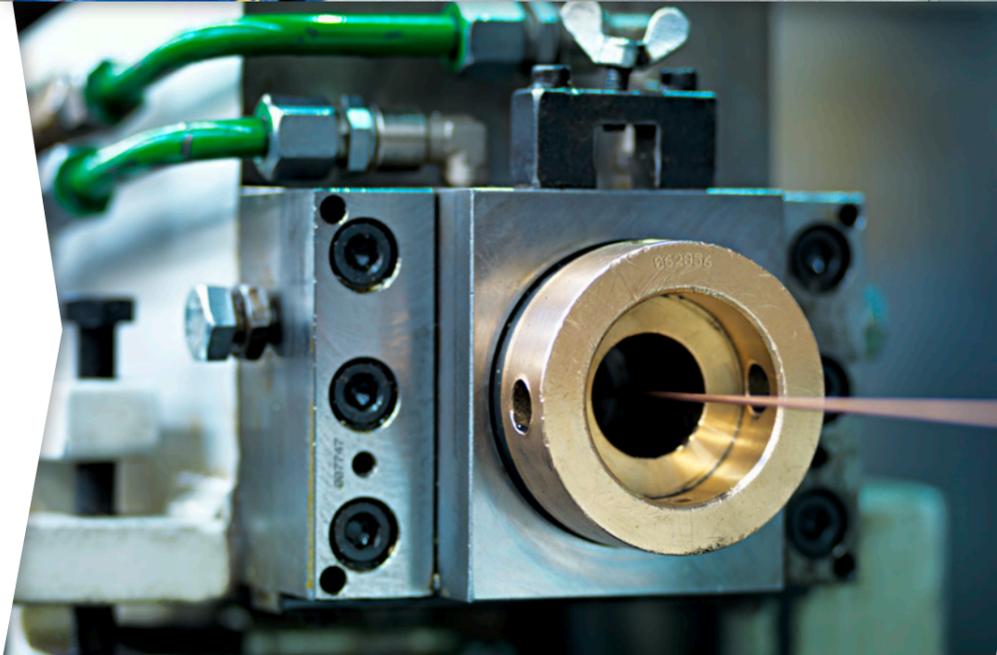
### Overall responsibility for your project

As a single source supplier, KOCH can plan, supply and install systems for the production of wire, including all of their components. If required, we can combine drawing blocks and wire take-up systems which we make in-house with modules for the periphery of the drawing line made by selected partner companies. High-performance additional units include pay-off units and special machines for pointing or milling of the wire, as well as system modules for proper take-up. Our customers profit from a full service: concept design, project planning, management, programming, installation all the way to support – and all from a single source.



## What counts is quality

KOCH's safe approach to constructing its machines is admired throughout the world. Features include optical and electrical safety mechanisms and even laser scanners. Many processes are automated – such as pulling in wire and tying off coils – which minimizes the risk to personnel from the outset. Strict quality control before and during installation and when commissioning ensures that the system runs smoothly and doesn't endanger users. We also possess comprehensive knowledge of national and international regulations, especially when it comes to CE labelling of systems. Every KOCH machine fulfils the requirements of the 2006/42/EC directive.



## Wire for tomorrow's world

KOCH was the first company to develop a genuine and reproducible straight-line drawing system, and also the first to offer contact-free straight-line drawing with its OTA technology. These classics have now become benchmarks. Today, innovations such as acoustic emission analysis and eddy current measurement are supplied over all the world. Our engineers, machine builders, IT technicians and designers undergo continuous training. It is their expertise that helps KOCH to keep on setting standards with its new developments in the wire processing industry.

# Our products. Your flexibility.

KOCH focuses specialized knowledge, technology and processes in one place. That allows us to guarantee true German quality in everything we do. Controlling every stage of production in our own machine building process makes us independent. There are many different features that can be integrated into our lines: quality control, user assistance and component uniformity – and we always find the configuration that exactly suits your needs.



Our complete product portfolio can be found at [www.koch-ihmert.de](http://www.koch-ihmert.de)

## Wire rod pay-offs

A wire pay-off ensures that things start well on every drawing line. We offer suitable systems for different wire types, diameters, coil weights and coil conditions.



+4

## Wire pre-treatment

Modules for descaling and pass-through coating prepare the wire for drawing. The forming process and the use to which the wire is going to be put determine the modules chosen. KOCH systems help you to save money in your operations.



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## Wire finishing

Coating, cleaning and improving the ductility of wire – positioned between the drawing machine and wire take up, our finishing processes optimize the quality of your end product.



+0

## Drawing machines

Drawing machines reduce a wire's diameter and lengthen the wire accordingly. Our technologies are state of the art in every respect. They guarantee that the wire has the right technological specifications, they improve both dimensional accuracy and surface quality.



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## Concrete reinforcing steel wire lines

The drawing block or multiple drawing system forms the heart of every KOCH concrete reinforcing steel wire line. We use cold rolling tools instead of drawing dies to enable high efficiency, which are also supported by the following automated wire handling systems.



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## Spoolers

A wide range to cover every need: vertical or horizontal spoolers, fixed or divisible spools – designed for different sizes and fill weights and for manual or automatic spool changing.



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## Coilers

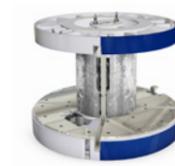
Quality – even at the end of the drawing process. Our static coilers achieve high processing speeds. Lifeblock coilers function without torsion and enable high fill weights – when coiling thick wires, for instance.



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## Options

Many different items of equipment and special fittings can be integrated into our systems. Lines can also be installed exactly the way customers require, such as with CE conformity, BDE integration, remote maintenance and more.



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# KOCH support. Genuine partnership



Good service pays off – in high productivity and for long-lasting machine availability. Take advantage of what we have to offer, ranging from inspection, to repair, to full servicing. Our experts will actively support you throughout your line's life cycle – by telephone, using online diagnosis and of course on-site.

You can contact us at our headquarters and at our subsidiaries all over the world using our Service Hotline.



**What can we do for you?**  
+49 2372 985 300



**Technical support**  
Machinery in top form

KOCH technical support services keep your machines in good condition for the future. We can provide you with customized repair and preventative maintenance solutions. In the event of technical difficulties, we ensure that you can resume production as quickly as possible and that the cost of downtime remains as low as it can. This need not always take long, since many issues can quickly be resolved over the phone or online. And if not, a technician can be on-site quickly. Simply and competently – that, to us, is solution-driven service.



**Remote maintenance**  
In good hands from afar

Your machine needs an update? Sometimes all our experts will need is an Internet connection. Remote maintenance is a quick and economical method of giving a system the latest upgrade. We can use it to change your control and instrumentation systems, modify technical parameters and, if necessary, restore your system to its factory settings. Some repair work can also be done quickly and easily from a distance. We place a lot of emphasis on IT security and secure connections. Remote maintenance has many benefits: there are no travelling expenses, and as a customer you can get help quickly anywhere, and at any time.



**Spare parts**  
Resume production quickly

Genuine spare and wearing parts guarantee that KOCH machines will work properly. We can supply you with high-quality components from our well-stocked spare parts warehouse, having pre-produced them for our standardized systems. If a part happens to be unavailable, our staff and suppliers will get it quickly – straight out of ongoing production if needs be. We take pleasure in doing every possible thing to keep your machines' downtime as short as possible – quickly and without any fuss.



**Retrofit**  
Turning old to new

Is your machine getting long in the tooth? Then a retrofit is an economical alternative to buying a new one. Modernization is worthwhile if the machine's basic structure is intact and its mechanisms still work. KOCH's team of technicians can upgrade your entire system using the latest control, drive and instrumentation technology. We don't just upgrade old KOCH systems, we can also retrofit machines made by other manufacturers at calculable prices.



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