

FORMING THE FUTURE



## DIGITAL SOLUTIONS

More productivity through digitalization of the press shop

**SCHULER**

Member of the ANDRITZ GROUP



Smart Press Shop – the world's most modern digital  
press plant. A joint venture between Porsche and Schuler.





# INTO THE DIGITAL FUTURE AT TOP SPEED. ROHITASHWA PANT, CDO SCHULER GROUP.

## THE DIGITAL TRANSFORMATION OF THE PRESS SHOP IS ALREADY IN FULL PROGRESS.

With Schuler's Digital Solutions, not only the huge automotive manufacturers but also medium-sized suppliers and small stamping operations can produce more efficiently in metal forming and generate less scrap. This gives our customers the competitive edge they need. Our solutions succeed in raising the production efficiency and digitalization of important process steps in the press shop to a new level. You can find our applications from America to Mexico, Europe, Eastern Europe and even China. Not only all German OEMs, but also renowned customers all over the world already trust us.

## VISIONS BECOME INNOVATIVE SOLUTIONS FOR A WORLD IN MOTION.

I am convinced that digitalization, sustainability, and e-mobility remain the megatrends in mechanical engineering and forming technology. Instead of visions, we deliver solutions that work and offer customers a tangible benefit. Hundreds of our digital systems are already in use. But for companies that have still not tackled the issue consistently, things are now really getting tight. They risk being left behind by competitors and disappearing from the market without a trace.

To avoid such a situation, we work together with our customers to observe the degree of maturity of digitalization and offer individual solutions. At Schuler, we have over 180 years of experience in press manufacturing, are leaders in both digitalization as well as in service and offer the complete package from a single source. That's why we are exactly the right partner – Schuler is taking metal forming technology into the digital future at top speed!



Rohitashwa Pant, Chief Digital Officer Schuler Group

SIEMENS  
FLEX-N-GATE  
BSH & NEFF  
METALSA  
ELRING KLINGER  
CRAEMER  
SMART PRESS SHOP

KOHLER  
RITTAL  
OPSAN  
SCHWEIKERT  
VOLKSWAGEN  
TAWESCO  
STENDAL  
SCHAEFFLER

Digital Solutions users: worldwide and across industries.

## DIGITAL SOLUTIONS – DIGITALIZATION OF FORMING TECHNOLOGY.

### SOLUTIONS FOR SINGLE PRESSES AND LINES FROM SCHULER AND OTHER MANUFACTURERS.

« Schuler is the first press manufacturer to also offer fully networked C-frame presses. As a result, we have now digitized almost our entire product range. »

*Benjamin Fürst, Managing Director Division Industry Schuler*



Service Portal



Schuler Connect



OT Cyber  
Security  
Check

« We also offer many solutions that can be retrofitted to existing lines, whether individual presses or press lines. And not only for Schuler lines, but also for non-Schuler equipment. They help with the start of production, ongoing operation, and maintenance, so as to future-proof production. »

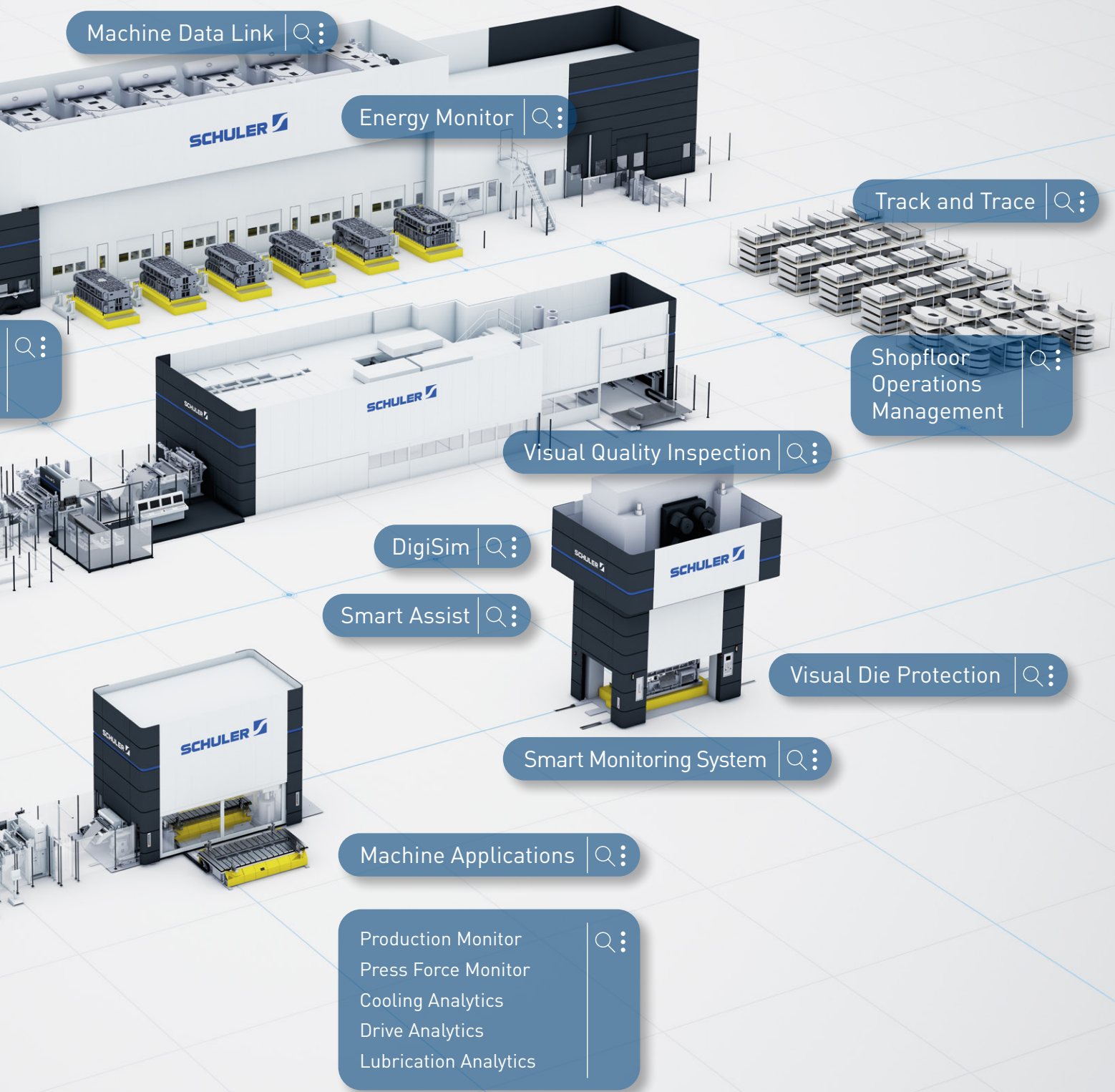
*Torsten Petrick, Managing Director Division Service Schuler*

#### ADVANTAGES

- |                     |                           |
|---------------------|---------------------------|
| ↑ More productivity | ↓ Less scrap              |
| ↑ More quality      | ↓ Less downtime           |
| ↑ More efficiency   | ↓ Less energy consumption |



<https://digitalsuite.schulergroup.com/en/>



Cloud-based systems or data that never leaves your facility.  
Fully networked or stand-alone solutions – everything is possible.

## AWARDED AND PROVEN IN PRACTICE. TRUST OUR INNOVATIVE DIGITAL SOLUTIONS.



Rohitashwa Pant (CDO) receiving the Digital Innovator Award on behalf of Schuler.

### CHIP SELECTED SCHULER AS “DIGITAL INNOVATOR”.

“Chip” magazine, together with its partner Globis Management Consulting, examined patent applications for “digitally relevant new developments” from 2018 to 2020. In this process, Schuler was selected as “Digital Innovator 2022”.

The company was honored for its Digital Solutions. These include Machine Applications for monitoring operating states, press force, energy requirements, or cooling and lubrication circulations, the die monitoring system “Visual Die Protection,” “Track and Trace” for tracking components, and “Smart Assist” for support during the start of production.



### CONTINUOUS INNOVATION.

The Digital Solutions are characterized by continuous updates with new features, a high security standard, and constant improvements in the user experience.

In addition, we are constantly developing the Digital Solutions to further improve the productivity and availability of our customers’ assets.

By using open interfaces and standard technologies, our products are easy to integrate into clients’ IT networks. The fact that we are now making our networked solutions available bundled on a virtual platform shows that the importance of digitalization in metal forming technology is steadily increasing, and that Schuler is playing a leading role in this.



# EXAMPLES FROM INDUSTRY.

## NUMEROUS USERS AROUND THE WORLD ARE SUCCESSFULLY USING OUR DIGITAL SOLUTIONS.

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### AUTOMOTIVE CUSTOMER, WITH THREE VISUAL DIE PROTECTION SYSTEMS IN OPERATION.

« With the help of this system, we have been able to reduce the problems with the main dies almost to zero. That's why we are equipping more presses with the system, and our planning is not completed yet. We are also looking at applications outside of metal forming to see how the system can help us optimize our production and assembly processes. »

Automotive OEM

### SIEMENS UPGRADES AND TRUSTS OUR SOLUTION MACHINE APPLICATIONS.

« We knew what Schuler could do as a manufacturer. Now we measure the press forces live on the machines, which means we can always see how the die and the machine are currently under load. With this transparency, we can also see how the press force is changing. This information is very valuable for incorporating optimizations. »

Tobias Grüner,  
Head of Digitalization and Infrastructure Siemens

### NEFF PROTECTS TOOLS WITH VISUAL DIE PROTECTION AND PREVENTS ACUTE DAMAGES TO THEM.

« We have been waiting for such a solution. We saw Visual Die Protection at a demonstration and wanted it as soon as possible. It was immediately clear to everyone how much we could save in costs if it could prevent die and machine damage. The application showed a successful result after only a few days: Visual Die Protection identified a misorientation of the components and stopped the press even before the tools were set up. »

Leonardo Serosi, manufacturing support Neff home appliances

### ENERGY MONITORING: IDENTIFYING POTENTIAL SAVINGS – WITHOUT ANY LOSS OF PERFORMANCE.

« The Energy Monitoring System automatically shows us all component-related energy consumption at all times, without any maintenance effort in day-to-day production operations. Since we started using the system, we have already been able to reduce energy consumption by 15% in just two months. »

Tier 3 company

## ABOUT THE SCHULER GROUP – [WWW.SCHULERGROUP.COM](http://WWW.SCHULERGROUP.COM)

Schuler offers customized cutting-edge technology in all areas of forming – from the networked press to press shop planning. In addition to presses, our products include automation, dies, process know-how and service for the entire metalworking industry. Schuler's Digital Suite brings together solutions for networking forming technology and is continuously being developed to further improve line productivity and availability. For battery production in gigafactories, Schuler provides equipment and services in the process steps of cell assembly and formation. Our customers include automotive manufacturers and suppliers, as well as companies in the forging, household appliance and electrical industries. Presses from the Schuler Group mint coins for more than 180 countries. Founded in 1839 at our headquarters in Göppingen, Germany, Schuler has approx. 5,000 employees at production sites in Europe, China and the Americas, as well as service companies in more than 40 countries. The company is part of the international technology group ANDRITZ.



### SCHULER DIGITAL SOLUTIONS

The collection of solutions for the digitalization of metal forming technology.

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