# PRESS RELEASE

|  |
| --- |
| **Schuler AG**  Bahnhofstraße 41  73033 Göppingen  Germany  **Simon Scherrenbacher**  Corporate Communications  Tel.: +49 7161 66-7789  Fax: +49 7161 66-907  [Simon.Scherrenbacher@ schulergroup.com](mailto:Simon.Scherrenbacher@schulergroup.com)  [www.schulergroup.com/pr](http://www.schulergroup.com/pr) |

# Stand-by operation for presses

## Schuler’s “Efficient Hydraulic Forming” (EHF) technology raises the energy efficiency of hydraulic equipment by up to 60 percent

*Göppingen, August 14, 2014* – A drive system which Schuler recently developed for hydraulic presses can reduce energy consumption by up to 60 percent compared to conventional lines. The new technology is called “Efficient Hydraulic Forming” (EHF) and offers energy savings and optimizations in all operating phases – fully automatically, without the need for any action by the machine operator. The system has a modular design and can also be retrofitted to existing lines.

The technology’s stand-by function ensures that the main drives are automatically switched off when not required, i.e. as soon as no energy is needed for the forming process. “We also developed a patented start-up system which can bypass the usual start-up characteristics of drives and thus utilize even the shortest breaks without any time loss,” explains Managing Director Dr. Martin Habert. This not only reduces energy consumption but also noise emissions.

These two benefits are also provided by the speed control for the power take-offs. Depending on the machine’s current status, the auxiliary functions are powered acyclically; normally, however, the units operate at a constant speed. The result: frequent idling and unnecessary energy consumption. Schuler’s EHF now uses an intelligent, speed-controlled drive which only supplies the auxiliary functions with energy when actually needed. This effectively minimizes idling losses.

## Less cooling needed

Thanks to the efficiency-optimized, modular hydraulic system and energy recovery, EHF technology also has lower cooling needs. The control valves in the main circuit have been eliminated and their function has been taken over by servo pumps. Taking into account the applicable safety regulations, Schuler has reduced the number of components in the main circuits to a minimum.

The energy stored in the system does not remain unused but is fed back into the production process: the potential energy of the slide during rapid downstroke and the energy stored in the oil compression is fed back by using the discharged oil to drive units which generate power with the aid of electric motors.

## First line with EHF delivered to Switzerland

The largest forging press in Switzerland, which has been in operation at Imbach & Cie. in Nebikon for almost a year, already features EHF technology. The highly efficient Schuler line with a press force of 3,000 metric tons can form workpieces weighing up to four metric tons, heights of up to 2.50 meters and diameters of 1.40 meters into shafts, ring blanks, disks and other components – and all at speeds of up to 40 strokes per minute. Whereas the press force, and thus also the output performance, has grown by several factors compared to the previous line, energy consumption has stayed virtually unchanged – thanks to EHF.

### Captions

Bild1.jpg: This forging press already features EHF technology, which can reduce energy consumption by up to 60 percent.

Bild2.jpg: With a press force of 3,000 metric tons, the highly efficient Schuler line can form shafts, ring blanks, disks and other components.

Bild3.jpg: It is the largest forging press in Switzerland and has been in operation at Imbach & Cie. in Nebikon for almost a year.

*Please name Schuler as the photo source.*

***About the Schuler Group – www.schulergroup.com***

*As the technological and global market leader in metal and plastic forming equipment, Schuler offers cutting edge presses, automation, dies, process know-how and services for the entire metal forming industry and lightweight vehicle construction. Its clients include car manufacturers and their suppliers, as well as companies in the forging, household equipment, packaging, energy and electrical industries. Schuler is the market leader in coin minting technology and supplies systems solutions for the aerospace, railway and large pipes industries. The company can trace its roots back to a locksmith shop founded by Louis Schuler in 1839 and celebrates its 175th anniversary in 2014. In fiscal year 2012/13 (ending Sep. 30), Schuler posted sales of € 1,185.9 million. With 5,500 employees, Schuler is represented in 40 nations around the world. The Austrian ANDRITZ Group holds a majority share in Schuler.*

*Follow Schuler on these social networks:*

C:\Users\scherren\Downloads\fb_icon_325x325.png[www.schulergroup](http://www.facebook.com/schulergroup).com/facebook

C:\Users\scherren\Downloads\Twitter_logo_blue.png

[/twitter](http://www.twitter.com/schulergroup)



[/youtube](http://www.youtube.com/schulergroup)

C:\Users\scherren\Downloads\xing-logo-e1301988921110.png

[/xing](http://www.xing.com/companies/schulergroup)

C:\Users\scherren\Downloads\LinkedIn_logo_initials.png

[/linkedin](http://www.linkedin.com/companies/schuler-group)