# PRESS RELEASE

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# More economic production of electric motor laminations

## Schuler’s new analysis tool eCon shows how quickly the use of controllable dies for notchers can pay off

*Göppingen, May 23, 2014* – Manually operated notchers are particularly well suited for the flexible and economic production of mid-size and small batches of laminations for electric motors and generators. Controllable dies which can produce the stator and rotor in a single step and with a high degree of precision save valuable handling and set-up time. Just how quickly the investment pays off for notchers is shown by Schuler’s new analysis software eCon: the tool calculates the exact break-even point based on a variety of operating parameters.

In the case of a conventional single notch, the operator first inserts the blank, the notcher cuts the stator notches, simultaneously cuts out the blank for the rotor, and the operator removes the two blanks. He then needs to change the die for the next step. The rotor blank is then inserted, cut and the finished rotor can then be removed.

With the aid of a controllable die, it is possible to notch the stator and rotor with a single clamping operation. Compared to the conventional production process with two separate die sets, there is no longer need to change dies and load the rotor blanks again. “The time savings not only lead to reduced part costs but also expand the machine’s maximum capacity,” explains Schuler Managing Director Johannes Linden.

The analysis tool eCon shows that a controllable die can already be worthwhile from an annual output of 100,000 rotors and stators and that the investment can already pay for itself after just half a year. To put it simply: the higher the annual output, the higher the reduction in part costs (up to ten percent). Moreover, the time savings can help expand capacity by up to 15 percent.

## Personal support essential

As part costs and capacities obviously vary from company to company, it is essential that Schuler staff provide personal support by conducting an individualized analysis using the eCon software. This takes account of the various parameters – such as the number of shifts per day, the hours per shift, the hourly wage costs, the stroking rate, the loading and unloading time, the energy and space costs, and the external diameter of the laminations (up to 1,100 millimeters for machines with 80 kilonewtons of press force and up to 1,800 millimeters for lines with 200 kilonewtons).

“At the end of the analysis, the customer can see in black and white what savings the investment will bring,” summarizes Johannes Linden, “and how quickly the purchase of a controllable die pays off in order to make the production of electric motor laminations on a notcher even more cost-efficient.”

*At the Coil Winding Expo (CWIEME) from June 24 to 26 in Berlin, Schuler presents its extensive product range of equipment for lamination production: hall 3.2, stand B39.*

## Internet

[www.schulergroup.com/drives\_generators](http://www.schulergroup.com/drives_generators)

<http://www.coilwindingexpo.com/berlin/>

## Captions

Bild1.jpg: Manually operated notchers are particularly well suited for the flexible and economic production of electric motor laminations.

Bild2.jpg: With the aid of a controllable die, it is possible to notch the stator and rotor with a single clamping operation.

Diagramm.jpg: A controllable die can already be worthwhile from an annual output of 100,000 rotors and stators.

*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 5,600 employees, Schuler is represented in 40 nations around the world. The Austrian ANDRITZ Group holds a majority share in Schuler.*

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