



SCHULER LIVE | JUNE 2014

## PARTS FOR "SOYUZ" ROCKET MADE ON SCHULER PRESS

Schuler plant in Waghäusel, Germany produces its largest-ever hydraulic line for a state owned Russian company.

The "Soyuz" rockets built by TsSkb-Progress take astronauts, supply them with oxygen, food and spare parts and fire satellites into space. Following the explosion of the US space shuttle Columbia in 2003, these rockets provided temporary connection with the International Space Station. They have been launched around 1,900 times from space launch facilities such as Baikonur in Kazakhstan, Ple-setsk in Russia and Kourou in French Guiana. The state-owned Russian company plans to start production of rocket parts on the Schuler press as of 2015.

The pre-acceptance test for the hydraulic line has already taken place at Schuler in Waghäusel, and is now en route to the customer. The press line features a press force of 2,600 metric tons, with a blank holder and bed cushion that each provide a force of 600 metric tons. The triple-action press will be used to produce parts for aluminum tanks, which must be extremely robust to withstand extreme loads - especially during take-off.

*"With bed dimensions of five by six meters, the line is one of the largest hydraulic presses we've ever built in Waghäusel"*

*Dr. Martin Habert, Managing Director of Schuler in Waghäusel*



TsSKB-Progress will produce parts for its "Soyuz" launch vehicles on a hydraulic press supplied by Schuler.



The Soyuz-2.1b launcher lifted a cluster of Meteor-M satellites from Baikonur (2009).



A manned spaceship was successfully launched by a Soyuz-FG launch vehicle from Baikonur to the ISS (2008).

## HYDRAULIC PRESSES AT GREATER MAGNITUDE FOR THE AERONAUTICS AND SPACE INDUSTRY.

**Hydraulic presses at greater magnitude.** Booster rockets are getting bigger and bigger so they can transport heavier payloads into the orbit. Rocket components are also increasing in size, and in turn, so are the machines that are used to produce them. With the ability to adapt bolster size to accommodate larger aerospace components, Schuler is able to meet the requirements of this specialized industry.

The enormous dimensions of these machines impose significant challenges on the facilities that produce them. With decades of experience in building large-scale machines, the experts at Schuler are capable of reliably meeting such enormous requirements. The solutions are double or triple-action hydraulic presses for deep-drawing of metals or special materials. They produce parts such as fuel tank bottoms, nozzles of rocket engines, payload fairings (nose cones) and other rotationally symmetrical components.

## CONTACT | IMPRINT

Schuler Pressen GmbH | Louis-Schuler-Straße 9 | 75050 Gemmingen | Germany

Phone + 49 7267 809-0

info@schulergroup.com | www.schulergroup.com

