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Automate

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Servo control

The integrated 460 Servo Presses and PressControl 4000 used by Airbus are among the most advanced systems available, offering fully automatic operation with an unrivalled combination of reliability, repeatability, functionality and overall performance.



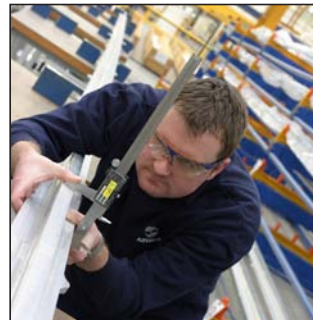
In particular, they are capable of producing up to 150kN of operating force over the full ram stroke, with a resolution of less than 0.1µm and a ram speed of up to 100mm/sec.

Additionally, they are easy to set up and operate, with user programmable profiles, incorporate a range of system protection features and have minimal maintenance requirements.

The PressControl 4000 control also provides an intuitive programming interface, with features that include real-time system monitoring, for intelligent compensation to changes in process conditions, industry standard connectivity, and full on-screen visualisation and analytical functions.

Perhaps as importantly, the latest 460 Servo Presses have been developed to offer a long and trouble-free operating life, even under the toughest of conditions, with an expected service life of over 10 million cycles using a standard profile.

SCHMIDT helps Airbus boost productivity by 50%



The latest SCHMIDT Technology Servo Presses are playing a crucial role in helping Airbus improve the output and product quality from its wing stringer manufacturing facility at Broughton in Cheshire. In particular, six Schmidt 460 presses with 4000 control systems have enabled productivity to be increased by over 50%, while significantly enhancing the control that Airbus' engineers have over what is a complex stage in the production of safety-critical airframe components.

The presses have been custom built to meet Airbus' requirements. Ian Kerry, Engineering Group Leader, explains, "We worked closely with the UK team at SCHMIDT Technology, who listened carefully to what we wanted to achieve and then helped us ensure that the presses and associated software and controls met our exact needs".

The 460 Servo Presses are among the largest that SCHMIDT manufactures and are capable of producing a ram force of up to 150kN, with a resolution better than 0.1µm.

Ian Kerry is delighted with the operation of the new presses. "In particular the

dedicated controllers, with Ethernet links, enable us to gather extensive data at every stage of the forming process. We therefore have the information to enable us to improve quality and repeatability, continuously. In practice, this has meant that we are able to create a data set of values for each stringer profile, which has significantly reduced production time and increased output".

In addition, the new presses have enabled Airbus to increase the precision with which each stringer is produced, so overall quality and traceability has improved. Ian Kerry concludes, "The team at SCHMIDT Technology in the UK and Germany has provided tremendous technical support and has been key in helping us develop a crucial stage in our world class wing manufacturing centre at Broughton".



SCHMIDT manual press with force control



Our latest 305 Series manual press is ideal for the assembly of small or intricate components, where precise control of press forces is required, yet where the cost of a fully automated system cannot be justified.

The 305 is a robust, easy to use machine, with small footprint and a range of features. These include a long working stroke, linear force progression and an integrated precision micrometer capable of producing a stroke resolution to within 0.005mm.

Perhaps as importantly, the latest 305 Series is designed to be used with our Press Control 3000 unit. Combined, this integrated system provides a high level of functionality and traceability, with, for example, freely programmable positioning, stopping and braking settings for both downward and return strokes. The system can also be used to store and recall press profiles and offers connection via an I/O board to a variety of sensors, and via a CAN bus node to higher level process control equipment.

Indeed, such is the efficiency of this press that we have recently used the 305/3000 combination for an in-house project to assemble promotional tie clips. These two-part clips had to be joined using extremely small and difficult to handle rivets, that needed to be inserted and pressed accurately and consistently.

Supplemented by a pneumatically operated feed unit and a rotary table with four magnetic mounting points, the 305/3000 press allows the two parts of each tie clip to be inserted into an upper tool, before the rivet is pressed securely into place.

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Automate

Visit our Demonstration Centre

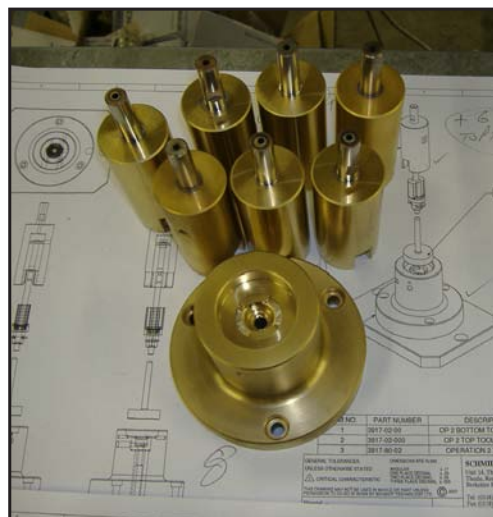
In our Training Centre, just minutes from Junction 12 of the M4, we have a range of presses available for demonstration, from entry level manual presses, including pneumatic and hydro-pneumatic presses, to our powerful industry-leading Servo Presses. Each type can be enhanced with sophisticated control systems and software to optimise performance and meet our customers' specifications and requirements.

Tooling

We configure our demonstration presses and run trials on our customers' own tooling in order to assess precisely which of our machines will best suit their particular applications.

Our highly skilled and competent team of engineers and design engineers work closely with our customers to execute any custom tools to their own specifications and requirements.

Do not hesitate to call John today on 0118 9305 464 to discuss all your requirements, arrange a visit, or book a trial with your own tooling.



New online resources



The new SCHMIDT Technology web site is now online. Containing all the latest information on our full range of presses

and value added support services, the new web site also gives you instant access to catalogues, brochures, 2D and 3D CAD drawings and our latest operators' manuals.

In addition, the site features useful conversion calculators for the principal press operating parameters, including force, weight and temperature, and a separate calculator for determining the air consumption of each press.

The new web site can be found at www.schmidttechnology.co.uk

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