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of servo-presses is that different speeds can be programmed along in the slide path and within the cycle. Therefore, we are able to set an optimum speed: slow in the lower part of the process, where work is performed; and fast later on, so the rate pieces produced per minute is increased. To achieve this, the engine, fly-wheel and clutch of a conventional press are replaced by high torque servomotors which affect directly the drive shaft of the press. As the main objective is to increase the number of pieces produced per minute, and as the strain rate decreases, we will have less time for feeding and transferring parts. Thus, the peripheral elements of the press as feeders and transfers must also increase their performance, being faster while maintaining the same levels of vibration and precision when carrying and feeding the belt.

ARISA's R&D department has developed a new range of automation products for Servo-presses, which allows increasing the feeding and transfer speed: the ACNS-2 feeders and the TCNT-6 transfers. Both include the latest CNC technology available on the market in these elements, such as

Siemens Simotion control, allowing the monitoring of curves of 3rd, 5th, and modified 5th grade. This control is responsible for the "Energy Management", by which we can install and work with a servo-press with similar values of electrical connection network to a con-

ventional press; the basis for this system is the storage of the energy generated by the carrier deceleration when reaching the work area. This stored energy is used later to increase the acceleration required. Energy storage is performed by high inertia engines. As a result,

the total electricity consumption is lower than in a conventional press. Therefore, servo-presses allow the performance of activities that were not possible by using conventional mechanical presses, but above all, it is possible to adapt the displacement curve and speed of the belt

based on the work-piece needs.

This servopresses flexibility must be focused on optimizing the process, on the increasing of the piece quality, on improving the maintenance of the die, etc. But might not generate complications to the user for its programming. According ARISA, we understand that a servopress are "infinite presses in one", so we can imagine what it is to have an infinite machine park and have to choose the machine that suits better to our process.

ARISA, which has always been at the forefront of technology in the manufacture of mechanical presses, is a worldwide leading manufacturer introducing this technology in large-tonnage presses.



ARISA S.A.

Av. De Burgos 101

26007 Logrono ES

Tel. +34 941 287520

Fax. +34 941 201836

arisa@arisa.es

www.arisa.com

HALL 8 STAND 8203

Press



Automation

Technical Service

(+34)941 287 520
sales@arisa.es
www.arisa.com

