



- 1 Two-point top drive
- 2 Two-point bottom drive
- 3 Drive module

SERVO PRESS TEST STATION WITH MODULAR DRIVES

Motivation

In sheet metal forming, the increasing diversity, complexity of components and the cost pressure leads to increasing demands on the production technology.

In contrast, in recent years is the establishment of a servo press - mainly characterized by the development of drive technology.

At this, the drive structure of conventional mechanical presses was kept by the press manufacturers predominantly. Powerful torque motors replace the flywheel and clutch.

It is the first test station that allows tests of different drive units, drive configurations and their linking with mechanical or electrical shaft. Furthermore, the development and the experimental testing of innovative machine components are also possible. The Fraunhofer IWU servo press test station provides the ideal basis for research proposes and testing of such components.

Additionally, several modules and components that have already been developed by Fraunhofer IWU provide the possibility of retrofitting and converting mechanical presses that are already in use.

Research and Development

In cooperation with the Anchor Lamina GmbH and the support of the Saxon State Ministry for Economic Affairs, Labour and Transport (SMWA) the Fraunhofer Institute for Machine Tools and Forming Technology IWU developed a mutable servo press test station.

Specifications

Rated Press Force	kN	1000 (2x 500)
Rating Point	mm	5
Slide Stroke	mm	250
Slide Adjustment	mm	150
Shutheight	mm	600
Bolster / Slide Plate	mm	2000 x 1100
Max. Speed	s.p.m.	~ 100

Fraunhofer Institute for Machine Tools and Forming Technology IWU

Reichenhainer Strasse 88
09126 Chemnitz, Germany

Machine Tools and Automation

Dipl.-Ing. Peter Blau
Phone +49 371 5397-1190
peter.blau@iwu.fraunhofer.de
www.iwu.fraunhofer.de