



Bildquelle: Burkhardt

Ebu-STA-Stanzautomaten in unterschiedlichen Ausführungen.



Different automatic ebu STA punching press designs

This Way or That

THE QUESTION *Servo or hydraulics? Years ago, Burkhardt GmbH had already clearly decided in favour of electrical drive. However, they still offer a hydraulic alternative.*

Burkhardt is distinguishing itself as the system distributor for sustainable solutions in metal forming technology, innovation and flexibility. All of the products in its distribution programme are conceived, designed, and of course produced at their headquarters in Bayreuth.

Completely ›Made in Bayreuth‹

As machine engineers, Burkhardt maintains the necessary know-how, including its entire range of control systems, in-house. This enables flexibility and a high degree of performance. Burkhardt has strengthened its headquarters with increased square footage and investments in modern production facilities, as well as an ambitious and challenging in-house training programme.

(Burkhardt boasts an above ten percent training rate.) These are all important factors in Burkhardt's company policy.

The metal forming technology machine line-up is known by the brand ›ebu‹. In addition to the C-frame-eccentric presses of the ›ebu HK‹ series with 400 to 4000 kN of nominal strength and the ›ebu H‹ series with 60 kN to 1600 kN in stable cast iron support construction with versatile automation possibilities and different drive possibilities – direct drive, planetary gear, or Servo drive – ›ebu‹ also offers table presses, which are used in the clock and watch industry.

The automatic punching presses and belt feeding machines are still the core competences of Burkhardt's metal forming technology. It took Burkhardt just 15 years to turn the concept of modularly designed units into a reality, introduce

them to the market and become a system distributor. With development cycles continually becoming shorter, Burkhardt can quickly cater to a company's requests and desires with minimised costs. In this way, major contracts can be fulfilled in the automotive sector and the metal fitting industries.

Broad Performance Palette in Different Layouts

Burkhardt offers automatic punching presses with a press capacity of 400 kN to 10,000 kN, with table lengths to 5,000 mm in modular design of cast iron support construction or monobloc welded steel construction, and with a high degree of automation. The ›ebu STA‹ automatic



Entire Burkhardt machine system, incl. belt feeder, precision straightening machine and automatic punching press.

punching presses are available as mono and duo con-rod versions. Thanks to the modular concept, the ›ebu STA‹ can grow with its challenges and just easily expand to fully automated machines in accordance with individual needs.

The ›ebu STA monobloc‹, tempered in low-stress welded steel construction, demonstrates a high degree of stiffness and low degree of frame stretching behaviour.

With Servo Technology

The type ›ebu STA-G‹ split design, primarily manufactured in cast iron, likewise exhibits a very high degree of stiffness and low degree of frame stretching behaviour. The press body is bound with tie-rods and is hydraulically pressurised. Furthermore, this model features minimal table and ram deflection, noise minimisation, optimal material application and increased tool durability.

One highlight in the development of the ›ebu automatic punching press‹ is its patented Servo technology, first brought to the market in 2004 by Burkhardt, and subsequently expanded into multiple models, thus offering an optimal solution for each application.

www.burkhardt-bayreuth.de

INTERVIEW WITH BURKHARDT GENERAL MANAGER JÖRG BERGER

Does Burkhardt continue to back Servo Technology?

Of course! Servo technology is a highlight. Burkhardt was the first supplier to introduce a Servo press in Germany, and that was at the 2004 Euro-Metal Forming Expo. In the meantime, we now offer four engines with three servo drives and a classic variation. Their performance will meet the needs of the vast majority of applications, and can be used to upgrade existing presses.

What Advantages Does ›ebu‹-Technology Have?

Here we bring two basic aspects into play: experience and modularity; we can point to a comprehensive know-how in press engineering, with heavy C-frame presses and automatic punching presses. Burkhardt had already engineered automatic punching presses in the '80s and in 1999 introduced the then new STA-series, which today - in its third generation - is firmly established in the market. Especially in power train technology, we can count ourselves among the market leaders. Our function as pioneers, and the current variety where Servo is concerned, is

proof of this. And because we are also a leading player in strip feeders, we are in the position to offer entire machines from one cast. It goes without saying that upgrades and service are of primary importance.

Modularity is one of our basic principles. We use as many pieces of identical construction as possible and then craft them in a series. We manufacture a good 50 percent of parts; our own casting house distributes cast parts up to a certain size. By doing so we can cut assembly times in half within ten years. Before the slump in

2008 we had, for the previous ten years, always operated at capacity and, during the three years before 2008, had more than doubled volume in the metal forming technology business sector. Our goal was to reach the 50 million mark in annual sales but the sudden collapse of the global economy has hindered this for the first time.

»For 10 years until the Autumn of 2008 we had almost always operated at capacity.«

Jörg Berger

