



SACK & KIESSELBACH

Maschinenfabrik GmbH since 1891

125 YEARS SACK & KIESELBACH

World-renowned presses – Made in Germany



Sack & Kiesselbach is acquiring its new head office on the same day as its 125th anniversary. Since March 2016, we have been working on the other side of the Rhine River, close to Düsseldorf

Sack & Kiesselbach has been around since 1891.

Our business is oil hydraulic press systems. The company has made a name for itself all over the world with more than 1,500 presses supplied so far.

Our core skill is the development of customised, turnkey press systems developed and manufactured in Germany. As well as the coin industry, we supply customers from various industries all over the world.

Our strength is our flexibility.

As a medium-sized company with clear business structures we respond quickly and easily to our customers' special requirements and work out individual solutions with them.

Our customers value our reliability. Sack & Kiesselbach machines are known for their long life cycle.

Our competent, committed employees ensure that these investments remain productive and up to date for decades.

Just what people expect from "Made in Germany".

OUR PRESSES

As unique as our customers

We develop turnkey solutions tailor-made for our customers' individual requirements



Sack & Kiesselbach's hydraulic presses work all over the world.

Sack & Kiesselbach's coin presses shape the industry

For 125 years our machines have been setting new standards for the most varied batch sizes – from a single item up to automated series manufacturing. Producing coins and medals at the highest quality level separates the wheat from the chaff. Only a few manufacturers have mastered this discipline. Extreme quality requirements need more than a perfectly constructed press. The art lies in organising the flawless interaction of all components involved in the manufacturing process. To do this you need experience, expertise and passion.

Sack & Kiesselbach is a global market leader in this sector.

Our industrial presses are constantly finding new applications

Sack & Kiesselbach stands for outstanding industrial presses as well. The numerous forging and calibration machines, that have been working reliably for you in production for decades, prove this.

Our machines are now being used in a number of different applications. For example it could be an advantage to press vertical splines in gear manufacture rather than rolling or broaching them. Sack & Kiesselbach has suitable "power packs" and develops a harmonious overall concept with all the components required for an economic production.

TECHNOLOGY

New dimensions of minting



Blank made of rough-turned silver. The sphere was made with excess material. The trick was to precisely dimension this excess material.



The complete tool consisting of four segments and a pair of coining dies.

The Mint of Poland produces a coin in the shape of a sphere

Imprinting the entire surface of a round body and designing suitable tools required the development of completely new and innovative solutions. The experienced specialists of the Polish Mint needed several approaches to solutions and numerous practical trials to achieve the perfect final result.

The spherical coin is produced on an upstroking hobbing press from Sack & Kiesselbach by manual feeding operation. The advantages:

- **Precise control of the press stroke**
The hydraulic press works in a force-, depth-, time-controlled manner and makes control of the entire minting process in the hundredth millimeter range possible.
- **Multiple pressing in the closed tool**
Makes an optimal material flow during the minting process possible.
- **High-precision tool**
The tool segments are closed and supported by a hydraulic pre-loaded cushion.

The State Mint in Berlin produces bimetal/bicolour collector coins in one single processing step on a TMP by Sack & Kiesselbach

When it came to the production of euro collector coins, the question was: pre-assembled bimetal blanks or assembly and minting in one single processing step? The decision was clear.

- **Economic use of the equipment**
All processing steps are carried out in one step on one machine. No additional press is used for assembly.
- **Longer operational life of the die**
The softer the blank, the lower the wear and the related costs. Unassembled blanks have a lower hardness than pre-assembled blanks.
- **Better coin image**
The softer the material, the better the flow properties during embossing. In addition there is less force required.
- **Perfect blanks**
Separate polishing of ring and core is better and easier technically than polishing pre-assembled blanks.

For this task, the table medal press (TMP) was equipped with a special transfer system to handle bimetal coins.

A trimetal transfer system is on the way!



Blanks as ring and core



Bimetal magazine on the automatic feed with ring and core blanks



Infeed and remove gripper on the coining tool

MINTING PRESSES FROM SACK & KIESSELBACH:

Master in their field



Olympic medals embossed on a PP-2500.

Sack & Kiesselbach presses are used whenever absolute quality is required.

Since 1891 our machines have been setting new standards for reliability and precision. The range includes machines for the most varied batch sizes – from a single product up to automated series manufacturing.



Table medal press / TMP

Highest embossing quality even with the most difficult embossed images. Compact table medal press with standard direct servo drive. 2.500 + 3.500 kN

Sensitive control systems for best results. The table medal press (TMP) sets standards for embossing coins and medals.

For more technical informations visit our website:
www.sack-kiesselbach.de

Down stroking medal press / OMP

Proof quality with maximum flexibility.

The multifunctional down stroking medal press is available in many models. 3.150–25.000 kN

Whether fed manually or automatically, the OMP is impressive because of its flexibility with difficult tasks.



Hobbing press / EP

High precision hobbing with the upstroking hobbing press and a suitable tool system all from one manufacturer. 6,300 – 25,000 kN.

The hobbing press (EP) is the reasonably-priced support for manufacturing coin and medal embossing stamps.



Up stroking production press / PP

High performance – low press height.

Powerful up stroking production press, designed for manual feed operation.

6,300–25,000 kN

The up stroking production press (PP) is used when small, top embossed quality batch sizes are required.



REFERENCES

Our clients within the last five years:

Medal press, TMP, OP, PP

Royal Australian Mint
Canberra, Perth; Australia: | OMP, TMP

Royal Canadian Mint
Ottawa, Winnipeg; Canada: | TMP, PP

Zhenzhen Guobao Mint
Shenzhen, China: | OMP

Shanghai Mint
Shanghai, China: | OMP

The Prague Mint
Prague, Czech. Rep.: | TMP

The Danish Mint
Copenhagen, Denmark: | OMP

Münz-Prägstatt München GmbH
Karlsfeld, Germany: | TMP, PP

Staatliche Münze Berlin
Berlin, Germany: | TMP, PP

Geiger Edelmetalle GmbH
Espenhain, Germany: | TMP, PP

Dr. Ising GmbH, Heubach
Germany: | TMP

Reischauer GmbH
Oberstein, Germany: | TMP

British Royal Mint
Llantrisant, Great Britain: | TMP

Japan Mint
Tokyo, Japan: | TMP

Casa de Moneda
Lima, Peru: | OMP + F

Royal Thai Mint
Bangkok, Thailand: | OMP

Sunshine Minting Inc.
Las Vegas, USA: | TMP

Hobbing press, EP

Casa da Moeda do Brasil
Rio de Janeiro, Brasil: | EP

Royal Canadian Mint
Ottawa, Winnipeg; Canada: | EP

Bayerisches Hauptmünzamt
München, Germany: | EP

Indian Government Mint
Mumbai, Calcutta, India: | EP

Indian Government Mint
Hyderabad, India: | EP

Casa de Moneda
Lima, Peru: | EP

Imprensa Nacional-Casa da Moeda
Lisbon, Portugal: | EP

Royal Thai Mint, Bangkok
Thailand: | EP

OUR SALES

Personal and customer-orientated.

Call us or just send us an email with your requirements. Our specialists will happily try to find a tailor-made, customer-specific solution for you.

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