Punching Machines for Expanded Metal

- Individual solutions
- Solid execution
- Great performance

Cord machining
- Cord cutting lines

Sheet metal processing
- Punching machines for expanded metal

Cutting technology
- Bending technology

Service concepts
- Maintenance contracts
- Replacement parts
- Retrofits

Sheet metal processing
FISCHER Punching Machines for Expanded Metal

**Individual requirements - Not a problem!**

**Custom solutions – Tailored exactly to meet your wishes.**

FISCHER is the right partner for you if you are looking for custom solutions. We do not just "supply" standard punching machines for expanded metal – we take an integrated approach to your design wishes and, working together with you, find solutions which are perfectly tailored to meet your requirements. We can thus offer you maximum investment security. Both now and in the future, you can rely on your FISCHER machine as the optimal solution for your needs.

**Intelligent approach:**

We plan and design your entire workstation. In doing so, we will take the desired products and your material processes, including intermediate storage, into account in order to achieve the optimal workflow.

Whether sheet metal or coil material, whether thick or thin...

Our machine concept is adapted to suit your material requirements, and not the other way around!

**Your mesh geometry**

Whether delicate fine-meshed structures on thin sheet material or...

... special patterns with intricate offset effects, let us know your requirements and we will find a solution.

**From large formats on thick sheets up to a material thickness of 8 mm ...**

... to the machining of modern plastics – With our machines, you will be well-equipped!

**UM 8/1500**

Punching machine with roller feed

- Punching force 800 kN
- Working length 1500 mm
- Working stroke 50 mm

**You can count on it:**

Over 40 years of experience represent your guarantee that your investment in the area of punching machines for expanded metal will be future-proof.

**Planned development - ‘Just-in-time’ realisation!**

Adherence to deadlines and absolute reliability are the cornerstones of our service philosophy.

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**Customer’s wish and requirements - Specification**

- Development and Design
- Manufacturing
- Pre-acceptance
- Release
- Installation
- Start-up
- Training
- Service
- - Maintenance contracts
- - Spare parts
- - Repairs

**Design/Concept**

- Technical meeting with customer
- Release of concept

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FISCHER Punching Machines for Expanded Metal

Reliable and sturdy – Combined with the highest precision

Powerful and robust – The low-mounted eccentric drive system
Precision gear transmission with hardened and ground cogs

Simple blade changes

Exact synchronisation thanks to crank arm drive

Insensitivity to shocks thanks to sliding guides

Blade service:
We will of course be happy to advise you in order to help find the right blades for your desired mesh pattern. And naturally we also provide the ideal grinding service.

Cutting procedure:
1. The sheet is advanced by one web width.
2. The upper tool moves down and forms half a mesh.
3. The press opens.
4. The upper tool is moved laterally and the sheet is fed forward by another web width.
5. The upper tool moves down and forms the second half of the mesh.
6. The press opens, the upper tool is moved laterally in the opposite direction, and steps 1 to 6 are then repeated over and over.

Precise and efficient!
Our control systems combine ease-of-operation with extremely flexible and nonetheless highly precise equipment control.

Various menus – e.g. recipe management – help to optimise your production process.

Best of –
A summary of the most important advantages:

++ Freely programmable feed and lateral movements
++ Precise motor-driven setting of the blade penetration depth
++ Insensitivity to shocks thanks to sliding guides
++ Robust, rigid block design
++ Simple blade changes
++ Exact setting of the cutting gap
++ Exact synchronisation thanks to crank arm drive
++ Machine is stably positioned thanks to its low-lying centre of gravity
Can we be of further assistance?
We can organise a whole package.

**Example:**
Punching machine
Adapted in this configuration for the automatic machining of sheet metal – output up to approx. 3 m/min.

**Performance data**
- Punching force: 800 kN
- Working length: 1500 mm
- Working stroke: 50 mm
- Feeding system with grippers
- Output up to approx. 3 m/min.

**Options and extensions available**
- Machine installation on absorbing damping elements
- Hydraulic blade clamping
- Adjustment of the depth of immersion and the cutting gap during automatic operation
- Roller feed or feeding system with grippers
- Automatic loading system
- and many other individual configurations.

**Well-equipped for every requirement...**
This configuration is for coil material – with straightening unit and roller feed. Output up to approx. 3 m/min.

**UM 16/1500**
Performance data
- Punching force: 1600 kN
- Working length: 1500 mm
- Working stroke: 50 mm
- Feeding system with grippers
- Stacking station
- Up to 8 mm mild steel

**UM 8/1500**
Performance data
- Punching force: 800 kN
- Working length: 1500 mm
- Working stroke: 50 mm
- Feeding system with grippers
- Output up to approx. 3 m/min.

The figures show the lines without their respective safety equipment.
Traditional values – the solid basis of our company’s success

We have always developed individual and highly specialized solutions for our customers and are now among the world’s best suppliers in our field.

Our highly motivated team guarantee our success: Our 360 employees possess outstanding expert knowledge along with tried-and-true practical know-how. In-house training courses and regular further training ensure that we will be able to master the challenges in the ever more complex world of machine construction.

Your advantage: well-thought-out concept solutions and solid implementation.

More than 65 years of FISCHER-Maschinenfabrik – your specialist for special solutions

After more than 65 years, our company has reached the high point of its development.

Again and again we score points in sheet metal processing with our customer-specific systems.

We have also set an industry standard with our innovative, fully developed and reliable technology, which is why we are also the world market leaders for steel cord cutting systems.

This has led to our company becoming one of the world’s market leaders for cord and sheet metal machining systems.

FISCHER is known around the world as being synonymous for excellence in the cord and sheet metal machining – a reputation we owe to our traditional values: experience, quality, individuality.

Would you like to know more about what we can do for you? Contact us!

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