



www.ips-werkzeugtechnik.de

Werkzeugschrank

Maschine
höhen

Hinweis:
Der Arbeitsbereich der Vorrichtung ist durch eine
Vertikalschutztüre von unten
hinten und vorn komplett geschlossen.
Oben ist die Vorrichtung offen.
jedoch ist auf Grund der Bauweise
und der Position der Schneidvorrichtung
eine Gefährdung auszuschließen.
Die Steuerung ist nur an der

werkzeugtechnik

INTELLIGENT PUNCHING SOLUTIONS



Consulting and Engineering Services //

1

Systems • Machines //

2

Presses • Special Units • Tools //

3

Punching Units //

4

Tools • Reduction Bushes • Strippers //

5

System Extensions //

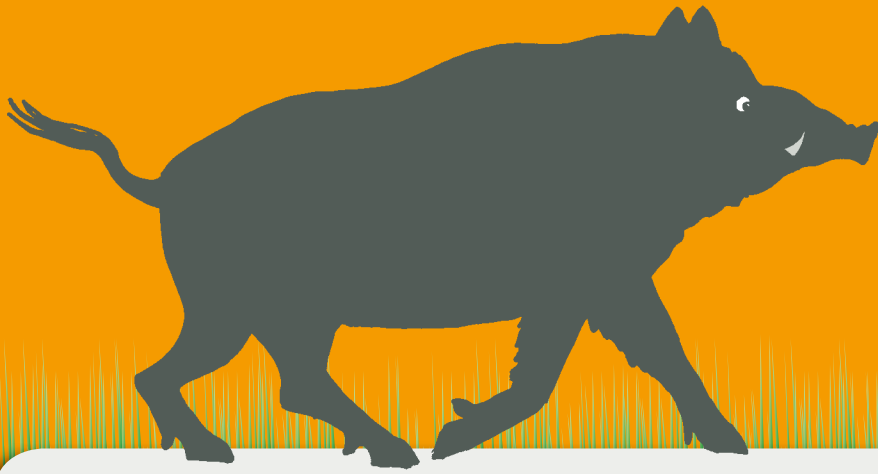
6

Small Presses //

7

Partner Programs //

8



ips – intelligent, strong and quick ...

// Wild Boar Goulash

- 1 kg wild boar goulash
- 3 tbsp oil
- 150 g streaky bacon
- 2 large onions and 2 garlic cloves
- salt, pepper and 3 tbsp flour
- ¼ litre red wine and ½ litre bouillon or game stock
- 1 tbsp tomato purée
- thyme, rosemary and – just as you like - wild game seasoning
- 1 large can of chanterelles and ½ cup of crème fraîche (sour cream)
- garlic powder



// Cooking

- Wash meat and dry thoroughly. Brown meat in hot oil, then keep warm. Dice bacon and onions and brown them also. Add meat and season with salt and pepper. Add red wine and bouillon, season and braise in a closed casserole about 60 minutes.
- Mix flour and a small bit of water and thicken the boiling sauce with the mixture. Taste and season.
- Heat the drained chanterelles in the sauce and refine with crème fraîche.

// Preparation time

- about 30 minutes, level of difficulty: normal

// Enjoy!



Which punching unit or which punching machine do you need to offer efficient, flexible and reliable solutions for individual customer requirements? **ips-werkzeugtechnik's** job is to find the appropriate solution for you ...

... because **ips** stands for **intelligent punching solutions**. An extensive know-how on both industrial sector and application requirements provide the basis for intelligent solutions. The high-quality tool units in the present catalogue are to a large part the product of this know-how. Depending on the application, these units are ideally suited to be combined and extended to complete systems.

In October 2006, **ips-werkzeugtechnik** took over the punching technology segment of **DE-STA-CO Europe & Co. Werkzeugtechnik**, which has earned us a new strategic position on the market. We have gained many years of professional experience, a tried and tested product range, technological know-how, knowledge on the industrial sectors and a high innovation potential. These strengths are now being enhanced in a team which has long since been working together. The goal of our efforts is to be your first-class supplier for every aspect of the punching process.

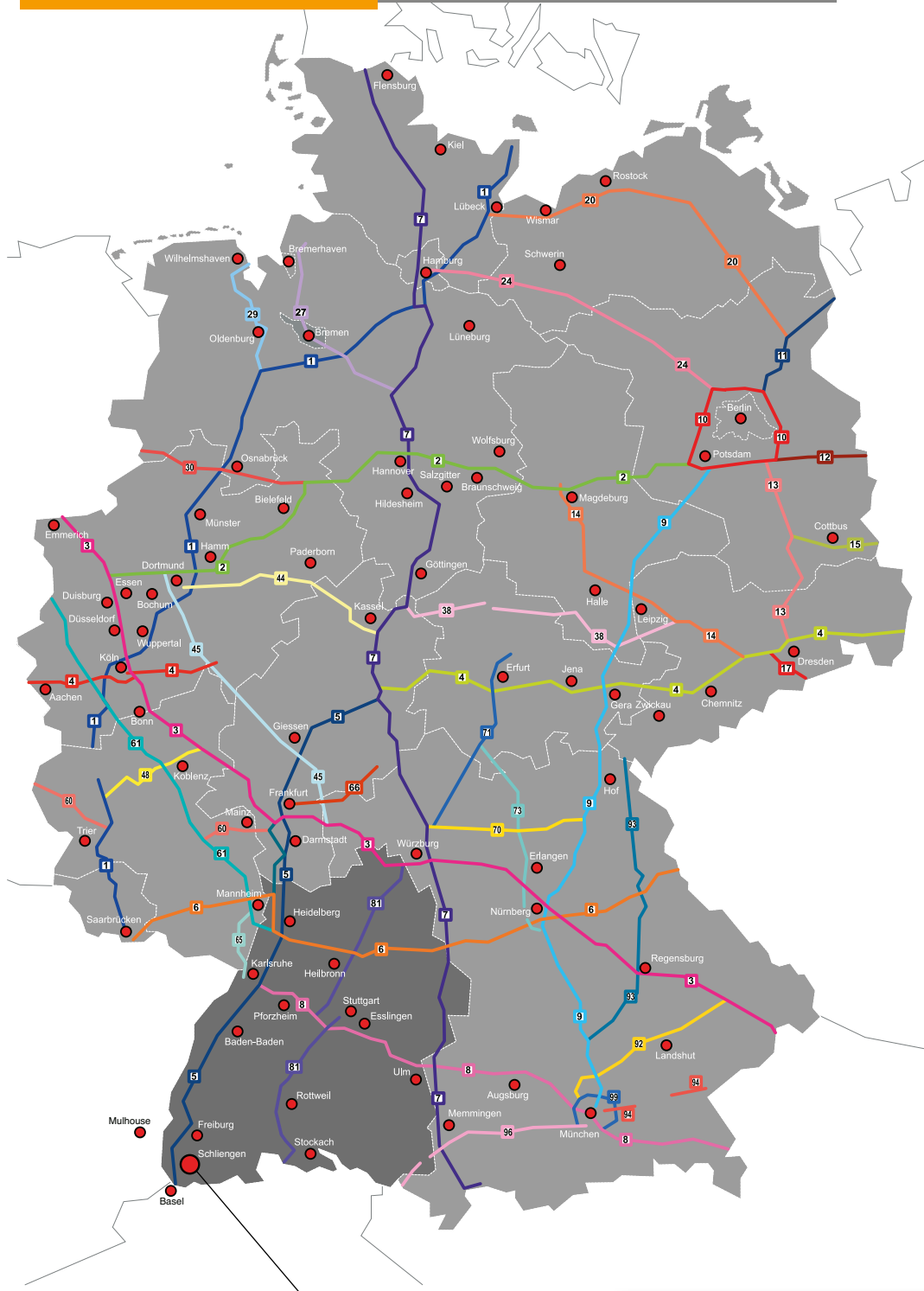
Furthermore, we also develop solutions which are tailor-made to your individual requirements. No matter whether you are looking for a single component, a standard application product or a customised special solution: **ips** will provide you with the perfect punching machine to improve your punching productivity. Developed, manufactured and assembled in Germany: high quality products at competitive prices.



Roger Schlitter
Dipl.-Ing./FH, Managing Director

INTELLIGENT PUNCHING SOLUTIONS





ips-werkzeugtechnik gmbh

Brezelstraße 4

79418 Schliengen · Germany

T +49(0)7635/3155-800

F +49(0)7635/3155-880

info@ips-werkzeugtechnik.de

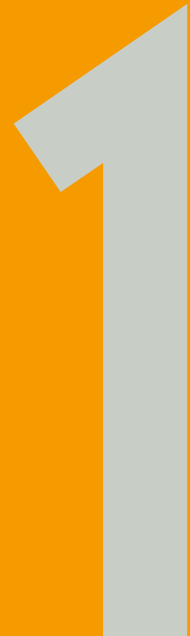
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INTELLIGENT PUNCHING SOLUTIONS

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Consulting and Engineering Services //

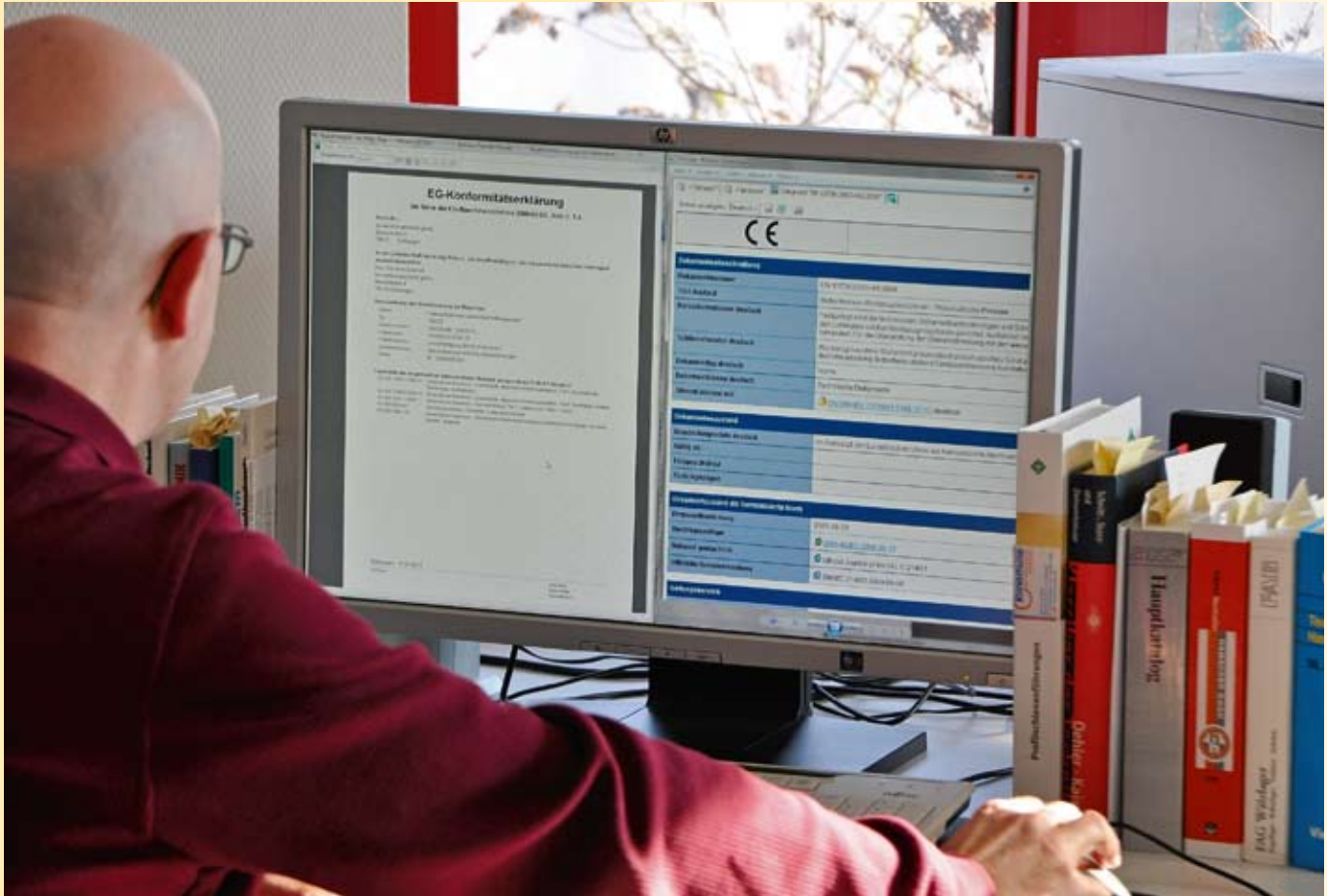


Consulting and Engineering Services //

- // Project management and consulting
- // Manufacturing optimisation with cost reduction
- // Compilation of specifications
- // Design services

We raise questions

- // Is it possible to design a better product with regard to automation?
- // Which dimensional tolerances are necessary?



Our consulting services

We search and develop solutions for the specific applications of our customers.

We support you in optimising your products.

We analyse manufacturing sequences and manufacturing processes.

We observe the indicated tolerances and coordinate feasibility with regard to the tools or the unit.

We discuss safety concepts.

We develop ideas for parts handling.

We assist you in the complete planning of the system.

On request, we perform profitability calculations.

Our engineering services

Complete design with SolidWorks including CAD data.

Designs of tools, fixtures, machines, test benches.

Tolerance analysis and agreement on a design concept.

Integrated measuring and testing equipments.

Complete documentation.

CE mark with risk analysis in accordance with the EC Machinery Directive 2006/42/EC.

CE declaration and risk analysis with »Safexpert«

The image displays the Safexpert software interface, which is used for generating CE declarations and performing risk analysis. The interface is divided into several sections:

- Top Section:** Shows the CE mark and the applicable standard: **EN 13736:2003+A1:2009** (aktuell).
- Document Information:** Contains fields for document number (EN 13736:2003+A1:2009), title (Sicherheit von Werkzeugmaschinen - Pneumatische Pressen), and a detailed description of the machine's function and safety requirements.
- Risk Analysis Section:** Displays a tree view of hazards and their associated risks. The main table lists the following items:

Id	Substanz	Art	Risikobewertung	Maßnahmen
1	Die Gefahrstelle ist brennbar, nicht und brennbar durch Schmelze abgedeckt. Der Befehlswert wird durch Verwendung einer weichen Drehmomentbegrenzung (Drehmoment T_{DB} mit SafetyStop 2000)	PHB	OUT 0	
2	Das allen Risik., Bewegungs-, Wartungs- und Instandhaltungsarbeiten ist die Übergangsbewegung zu übersteuert	PHC	PH 3, OUT 0	PH 0
3	Das allen Risik., Bewegungs-, Wartungs- und Instandhaltungsarbeiten ist die Übergangsbewegung zu übersteuert	PHC	PH 1	PH 0
- Bottom Section:** A table listing safety-related items with columns for ID, description, category, status, and priority. The table contains 27 entries, all with a status of 'OK' and a priority of '1'.



Engineering services //



Crimping //



Assembly // insertion //

Stamping //

Laser cutting units //



Pressure assembly //



Punching // cutting off //

Sawing // drilling // milling //



Pipe punching //

Check list for offers – also available at www.ips-werkzeugtechnik.de

1. Customer address

Company name	Contact person, department
Street	Telephone/fax
Postal code, town	E-Mail

2. Material data

Material details:	Tensile strength in N/mm ² :	Material thickness in mm:
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3. Current details

Performance specification available?
Should we supply a quotation for limit stops and guides?
Free form surfaces – adapted tools – please mark <input type="radio"/> yes <input type="radio"/> no
Should we supply a quotation for a complete unit with CE mark?
Which safety equipment is required by the customer? (sliding door activated with both hands / light barrier / operation with both hands)

4. Process data

Cycle time (sec):	Strokes/d:
Shifts: 1 shift/d	2 shifts/d 3 shifts/d

5. Drive and specific data of the unit

press-operated	pneumatic	hydraulic
Nominal pressure in bar	pneumatic	hydraulic
Quotation for hydraulic equipment required? What kind of equipment?		
Quotation for integrated counter required?		
Throat depth in mm:	Feed clearance in mm:	

6. Number of units

7. Part name/project name of the customer

8. Description

ips-werkzeugtechnik gmbh
 Brezelstraße 4
 79418 Schliengen · Germany
 T +49 (0) 76 35 / 31 55 - 800
 F +49 (0) 76 35 / 31 55 - 880
 info@ips-werkzeugtechnik.de



SOLUTIONS

INTELLIGENT PUNCHING

Units • Machines //

2

Units • Machines //

// tailored to your individual requirements

Non-cutting processing

// punching // pressure assembly // stamping // pressing
// insertion // laser cutting ...

Metal-cutting processing

// sawing // milling // drilling
// thread cutting ...

And much more ...

// Insertion and removal by means of pick & place units or robots
// Planning in accordance with the customer performance specification
// Design with SolidWorks
// Control technology in accordance with the latest safety regulations
// CE mark with risk analysis is created by means of SAFEXPERT
software
// Commissioning on customer's premises including after-sales services
// Spare parts supply



Industrial sector:

vehicle registration

Project: 091002

Material: aluminium

Function: Punching of vehicle registration numbers, the distance between holes is adjustable by means of 14 templates.





Industrial sector:

HVAC

Project: 101216

Material: polypropylene (PP)

Function: Serial punching unit for punching mist collectors.
Special features:

- power cylinders can be switched on individually
- punching width is 5 times adjustable by means of a plug-in system
- two-hand safety release





Industrial sector:

automotive industry

Project: 100201

Material: polypropylene

Function: Device for punching the inside lining, indirect lighting.





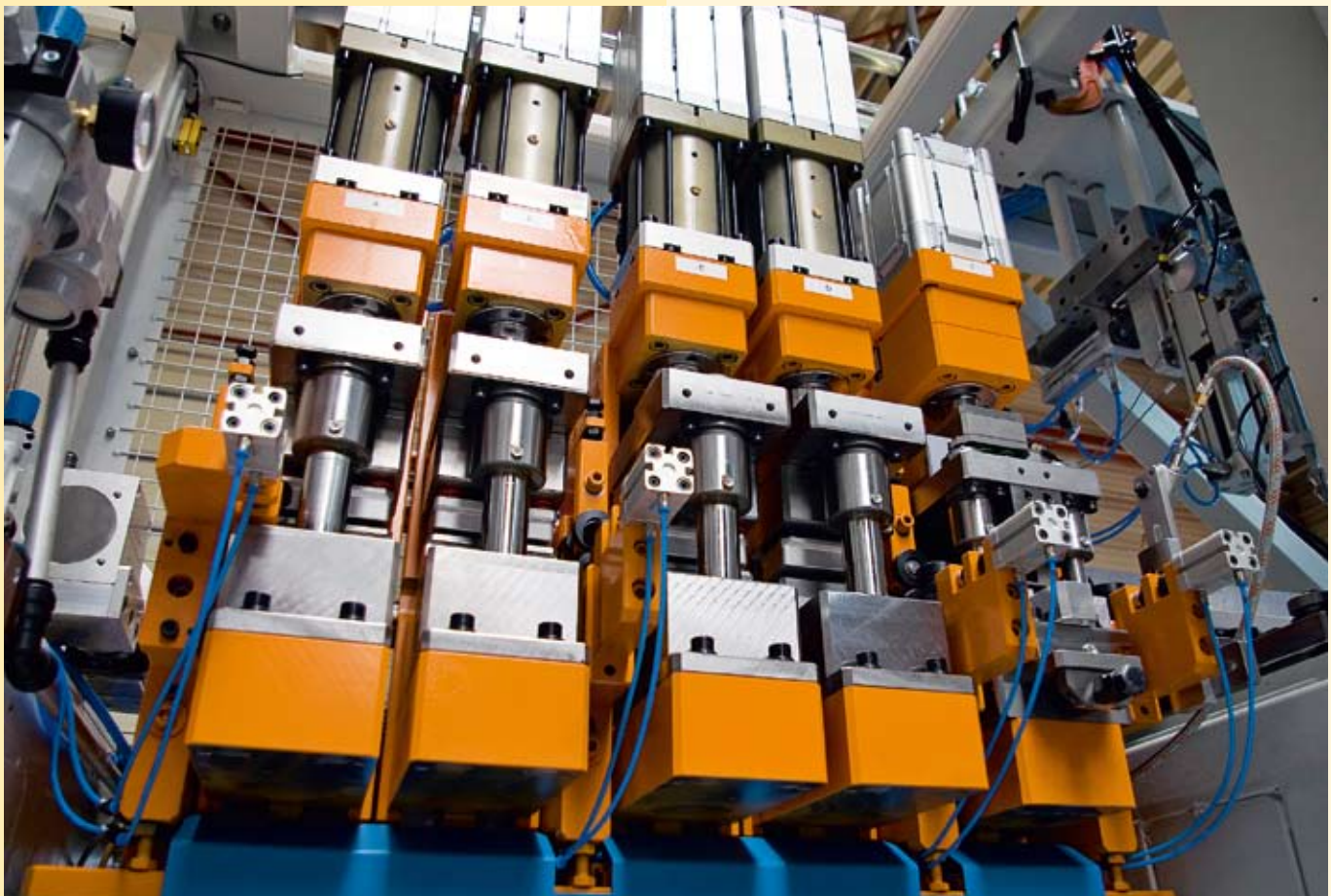
Industrial sector:

solar industry

Project: 090129

Material: aluminium profile

Function: Punching unit for the processing of solar profiles.
After the punching process, silicone is injected into the sealing joint.





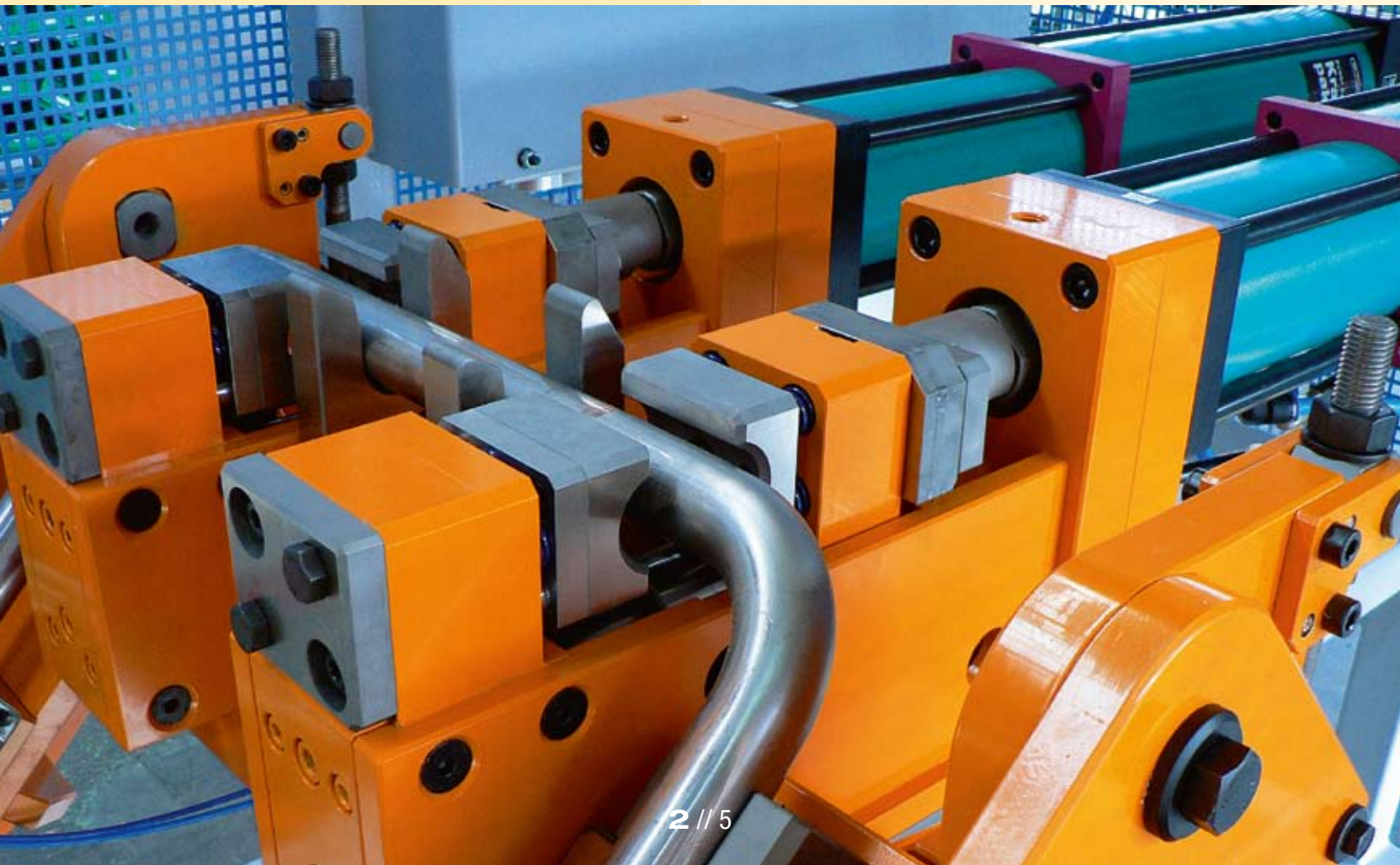
Industrial sector:

furniture industry

Project: 070227

Material: steel tube

Function: Pneumatic pipe punching unit for double-face punching with insertion and reduced insertion.





Industrial sector:

vehicle construction

Project: 070214

Function: Unit for punching 3m long profiles.
The unit can be operated from both sides and is equipped with two transmitters for length measurements.