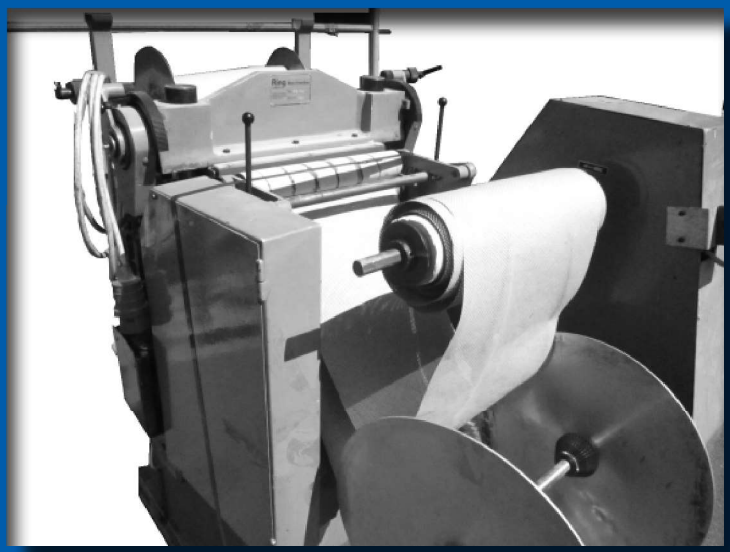
RING GROUP

PERFECT MECHANICAL ENGINEERING AND TOOLMAKING MADE IN GERMANY SINCE 1921

PRESENT
MEETS PAST



TYP ME-TECHNOLOGY

Activation/Deactivation of Punch Pins – Flexible and Precise.

Variable configuration of all tools.

Variable pin configuration within a single tool.

Up to four full rows of pins in one tool,
"each pin can be individually controlled."

One tool for a wide range of designs.

Ideal for designs with high variability.

ME

Technical Data:

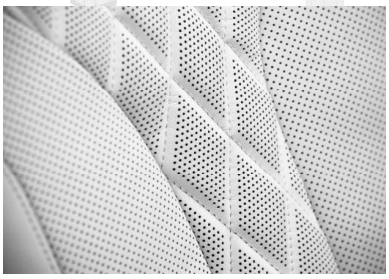
Depends on machine configuration

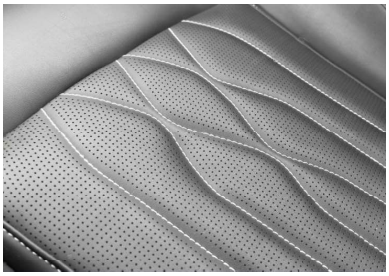
Machine design: Four-column frame

Working width:	from 800 mm
Strokes/min:	from 150 up to 300 (depending on design and tool)
Punching force:	from 50 tons
Power supply:	12 kW / 20A
Weight:	from 3.800 kg (depending on configuration)

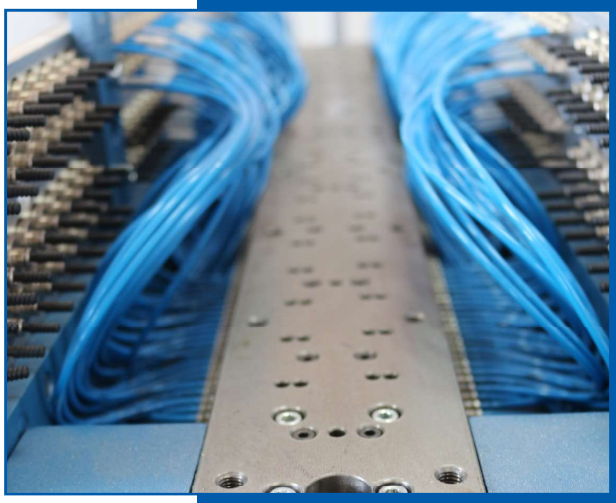
APPLICATION

Ideal for the footwear, leather, apparel, upholstery, and automotive industries – our machines are the perfect solution for efficient perforation of your materials





TYP ME-Q-TECHNOLOGY



Activation/Deactivation of Punch Pins – Flexible and Precise.

Variable configuration of all tools.

Variable pin configuration within a single tool.

Up to four full rows of pins in one tool,
"each pin can be individually controlled."

One tool for a wide range of designs.

Ideal for designs with high flexibility and variability.

Patented cross-shift: Placed perforation without pattern repeat.

Technical Data:

Depends on machine configuration

Machine design: Four-column frame

Working width: from 800 mm

Strokes/min: from 150 up to 300 (depending on design and tool)

Punching force: from 50 tons

Power supply: 14 kW / 23A

Weight: from 4.000 kg (depending on configuration)

Screwless tool change possible / pneumatic clamping

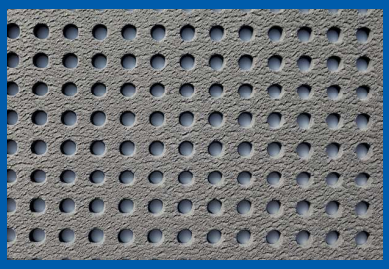
ME-Q

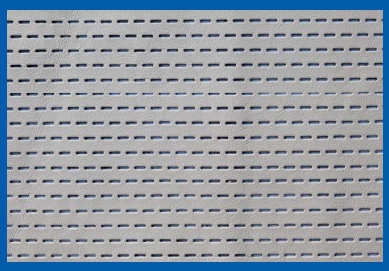
ME/ME-Q WITH AUTOMATION

Automation allows many production tasks to be performed more efficiently and safely.

Can also be retrofitted to existing machines.

ST





AQC

STANDARD TECHNOLOGY

Technical Data:

Technical Data:

Depends on machine configuration

Machine design: Four-column frame

Working width: from 800 mm

Strokes/min: up to 300 (depending on design and tool)

Punching force: from 10 to 35 tons

Power supply: from 9 kW / 18A

Weight: from 2.500 kg (without tools)

Features:

- Computer-controlled feed
- Computer-controlled winding technology for uniform pattern repeat without material tension
- Suitable for roll goods, cut pieces, PVC sheets (without paper feed)
- Various versions for roll diameters from 250–1000 mm
- Roll weight from 250–1000 kg
- Up to 4 rolls simultaneously

AQC AUTOMATION & COMFORT

Automatic tool change (up to 5 tools in the magazine)

Tool clamping without screws

Industry 4.0-ready – interfaces for smart production

Quick to convert & easy to maintain

Technical data:

Connection values: 4 kW / 7A

Weight: from 1.800 kg (without tools)

HD MACHINE (heavy-duty)

Extra punching power for demanding materials.
Ideal for tough materials and high throughput rates.
Placed perforation possible.
Design variety despite robust construction.

Technical Data:

Depends on machine configuration
Machine design: Four-column frame
Working width: from 800 mm
Strokes/min: up to 300 (depending on design and tool)
Punching force: from 50 up to max. 70 tons
Power supply: 15 kW / 25A
Weight: from 4.500 kg (depending on configuration)
Screwless tool change possible / pneumatic clamping

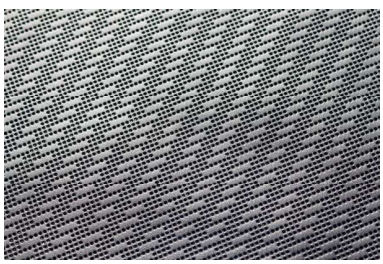
HD-XL MACHINE (heavy-duty XL)

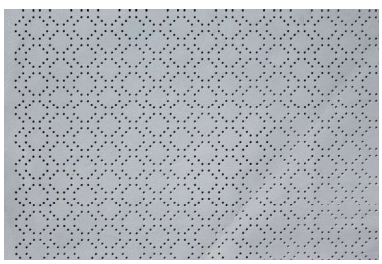
Technical Data:

Depends on machine configuration
Machine design: Four-column frame
Working width: from 800 mm
Strokes/min: up to 280 (depending on design and tool)
Punching force: from 50 up to max. 145 tons
Power supply: 15 kW / 25A
Weight: from 4.500 kg (depending on configuration)
Screwless tool change possible / pneumatic clamping

Features HD / HD-XL:

- Computer-controlled feed
- Computer-controlled winding technology for uniform pattern repeat without material tension
- Suitable for roll goods, cut pieces, PVC sheets (without paper feed)
- Various versions for roll diameters from 250–1000 mm
- Roll weight from 250–1000 kg
- Up to 4 rolls simultaneously





HD

HD-XL

ONE STROKE

High output rate.
Up to 20,000 pins in one stroke.
Up to 6 parts per minute.
Perforation is achieved through a single punching stroke.
Tool change via lateral insertion.
Automatic height adjustment.
Suitable for roll materials (e.g., PU/PVC).

ONE STROKE

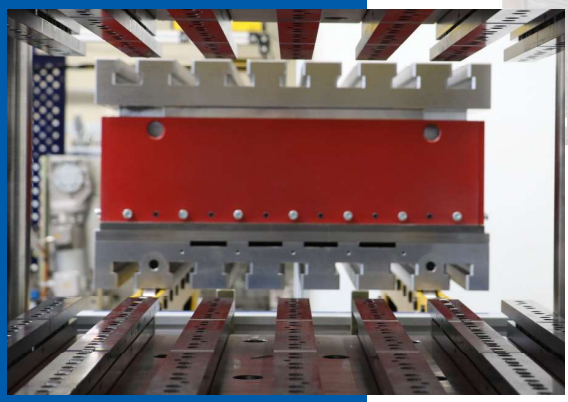
Technical Data:

Depends on machine configuration

Machine design:	Four-column frame
Working area:	100 × 100 mm up to 800 × 600 mm
Strokes/min:	up to 12 (depending on design and tool)
Punching force:	up to 300 tons
Power supply:	22 kW / 36A
Weight:	up to 21 tons
Screwless tool change:	Hydraulic clamping

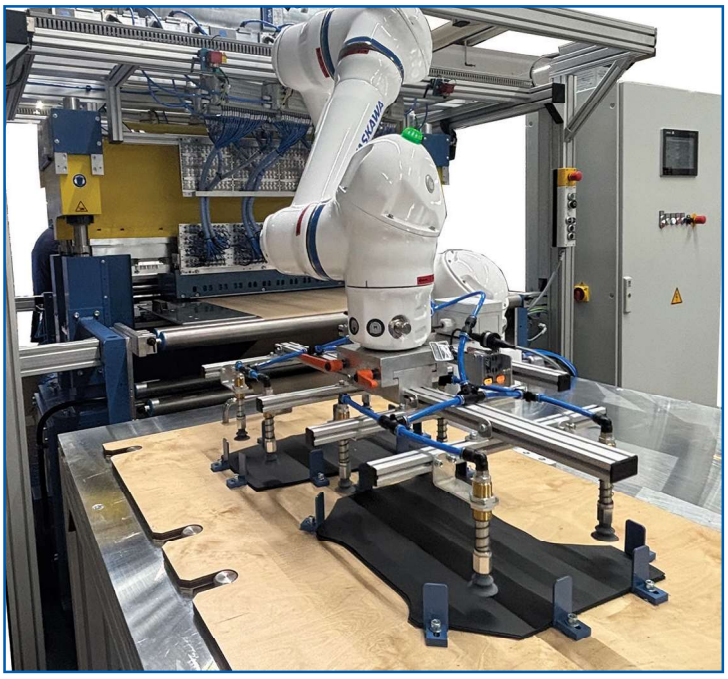
Optional:

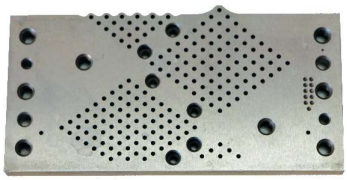
- Automatic loading and unloading
- Up to 20,000 pins in one stroke

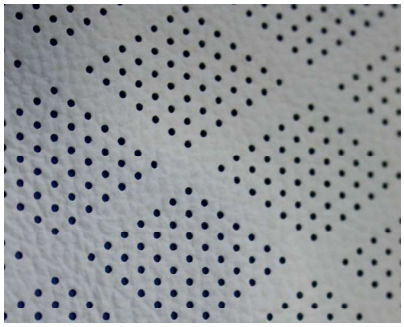


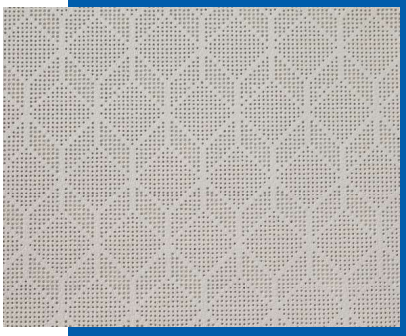
OPTIONS

- Industry 4.0 integration
- Pattern repeat variations for punching perforations and designs with different feed modes
- Positioning laser for precise material alignment
- Beamer/laser projection for positioning
- Four-column design
- RFID tool recognition
- Automatic tool setup
- Servo height adjustment
- Powered unwind and rewind (from 250 kg)
- Roll perforation system
- Sheet perforation system (PU/PVC sheets)
- Fully automatic loading and unloading









RING MASCHINENBAU GMBH – YOUR RELIABLE PARTNER WORLDWIDE

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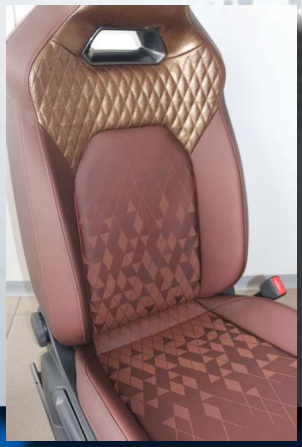

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