RING GROUP

WORLDWIDE SINCE 1921



MACHINE PROGRAME

Air vent

Perforation

Breathable

Design Finishing

Punching Stamping

Light transmission

Permeabel to light

Blanking Embossing

Design Refinement

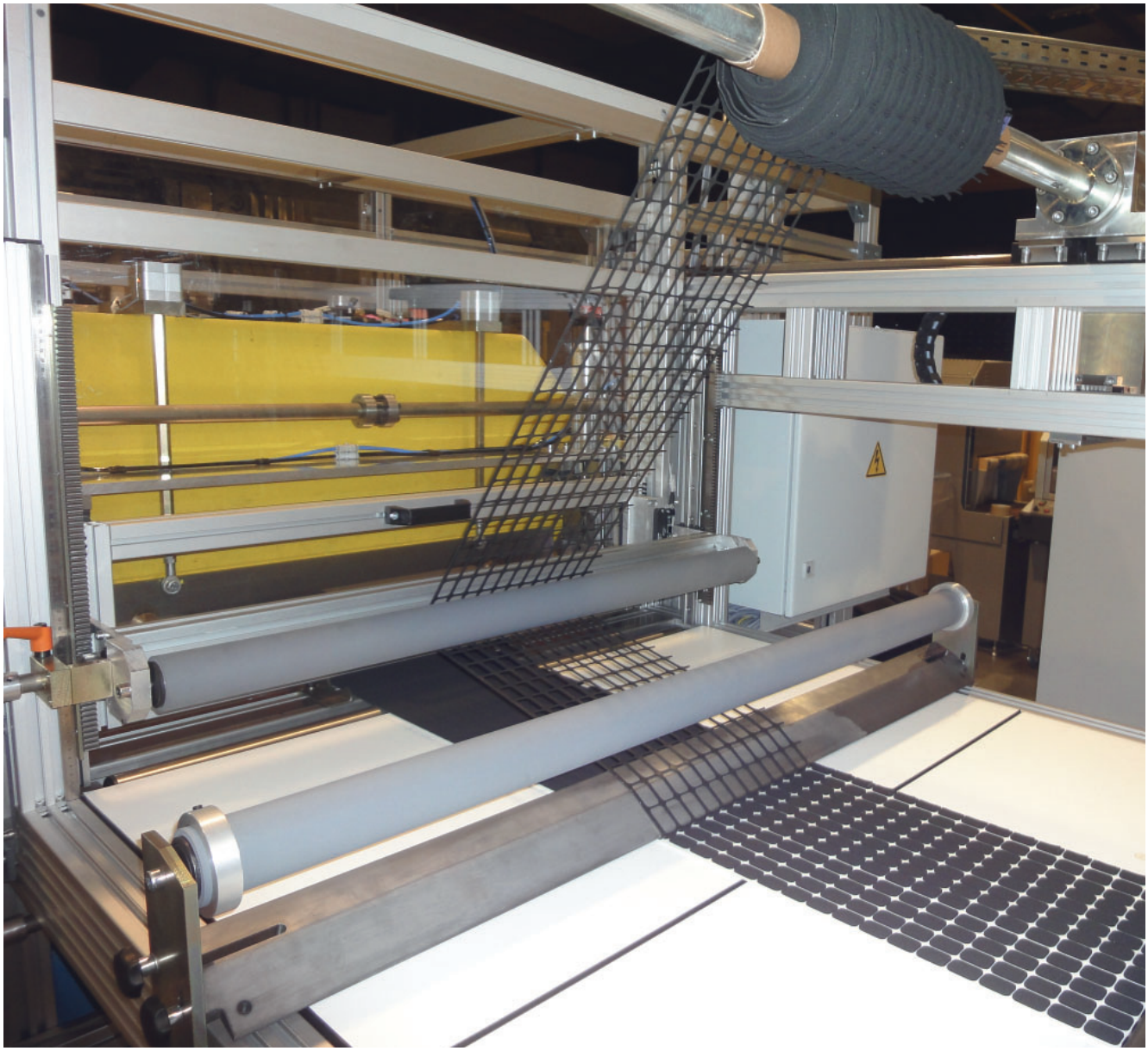
Breathable

Perforating

Air Permeability

Mechanical Engineering

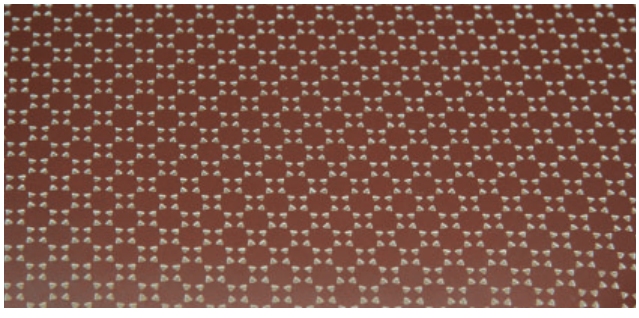
Ring Group



As a leading manufacturer in the sector of mechanical engineering, the close cooperation with our customers ensures us a solution individually tailored for you.
Due to constant new and further developments we receive the highest innovation within the shortest time thus an advance for our clients in comparison with their competitors.











Typ ST

Ring Group



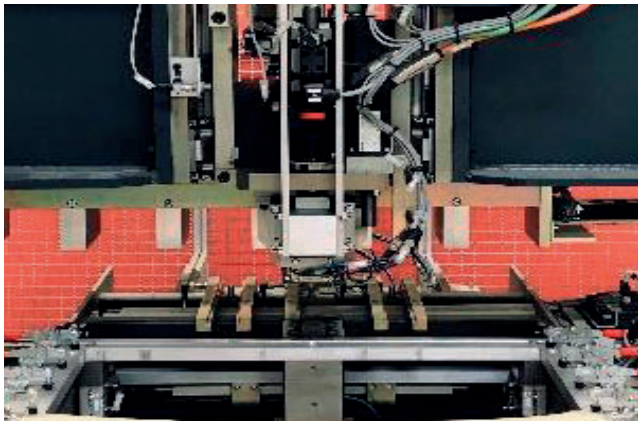
The continuous Perforating and Embossing Machine is the result of the latest technology and decades of experience in the perfo-rating business.
Its development results from the enormous interest of industry in high-performance perforating machines for materials and blanks. Less required space, short working processes, a high number of cycles up to 250 punches/min and easy handling of the machine offer best conditions for rational and universal application for perforating and embossing of blanks in the shoe-, leather-, textil-, upholstery and automotive industry.

From the Design development to production

The latest technologies at Ring will give designers almost unlimited freedom for design variety in the future. Thanks to several new developments, it is now possible to achieve the following options using a fully automated control system on Ring perforating machines:

- Free-form programming
- Higher number of punch dies (up to 5,000)
- Inclusion or exclusion of zones and blocks
- Significantly greater repeat pattern options

KST-type CNC machine with original production stamps

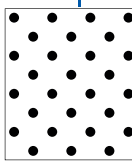


Your design in your material can be cost- efficiently created with our CNC machinery in order to make tests and trials possible.
We can cope with the technical and optical demands of the automotive, shoe, clothing and foil industry.

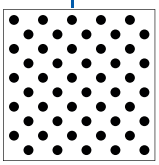
Our customers work with machines and tools from Ring or have perforating contract work done by us. There are no limits! We can adapt everything to your requirements:

dimension
- hole size
- hole shape
- range perforating

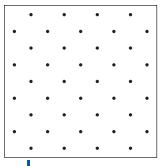




Mk 3

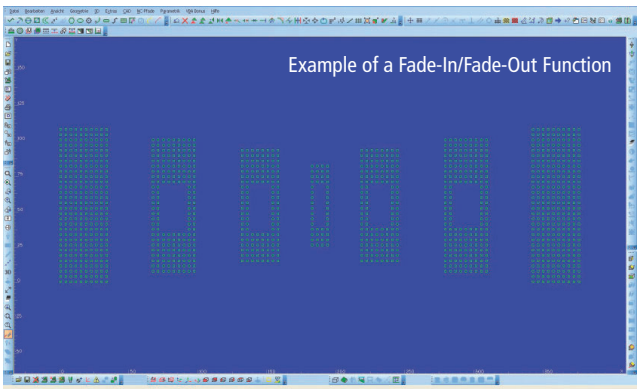


Mk 10



Mk 9



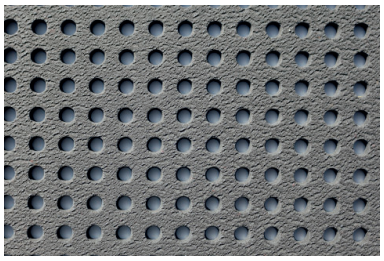


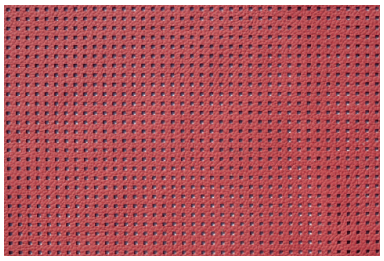
STANDARD Technology

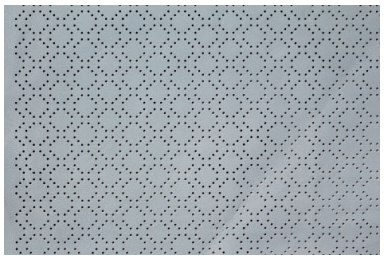
Typ -D

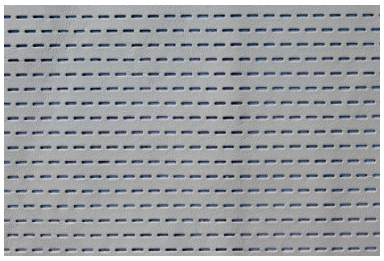
Ring Group

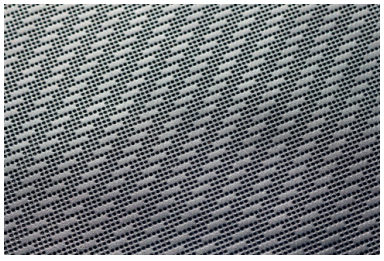












Suitable for:

- Working widths from 800 mm to 2600 mm
- Standard tools with up to 1000 punching dies
- Repeat pattern up to 20 mm

Options:

- "G" variants for punched perforations and designs using various feed rates

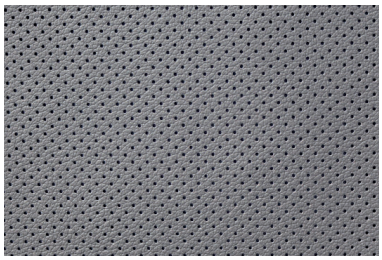
- "WT" computer-controlled winding technology for a uniform repeat pattern without tensile stress on the material

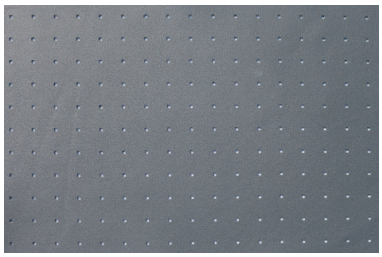
- "Roll" for roll stock
- Various models for diameters of 250–1,000 mm
- Roll weight: 250–1,000 kg
- Up to 4 rolls simultaneously

STANDARD Technology

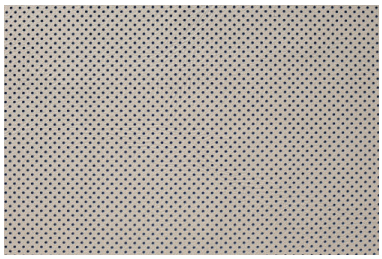
Typ - WT

Ring Group

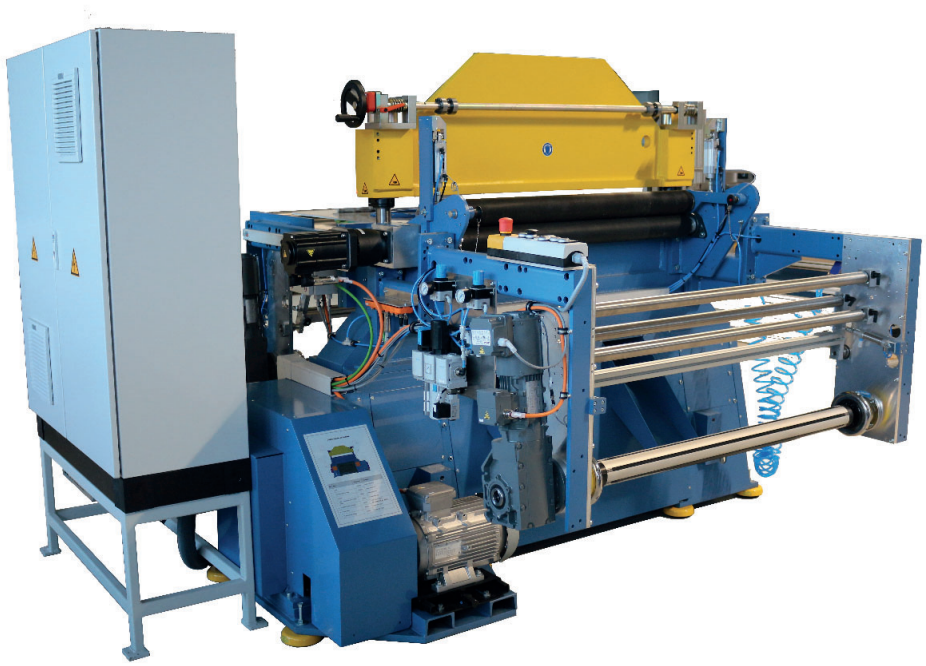












Typ ST-1050-D-WT

Suitable for:

- Working widths 800 mm - 2600 mm
- Standard tools with up to 1000 pins
- repeat up to 20 mm

Options:

- „G" variants for punch perforations and design over different feeds

- „WT" Computer-controlled winding technology for uniform repeat without tension on the material

- „Roll" for roll goods
  - different versions for diameters 250-1000mm
  - Roll weight 250 - 1000 kg
  - up to 4 rolls at the same time

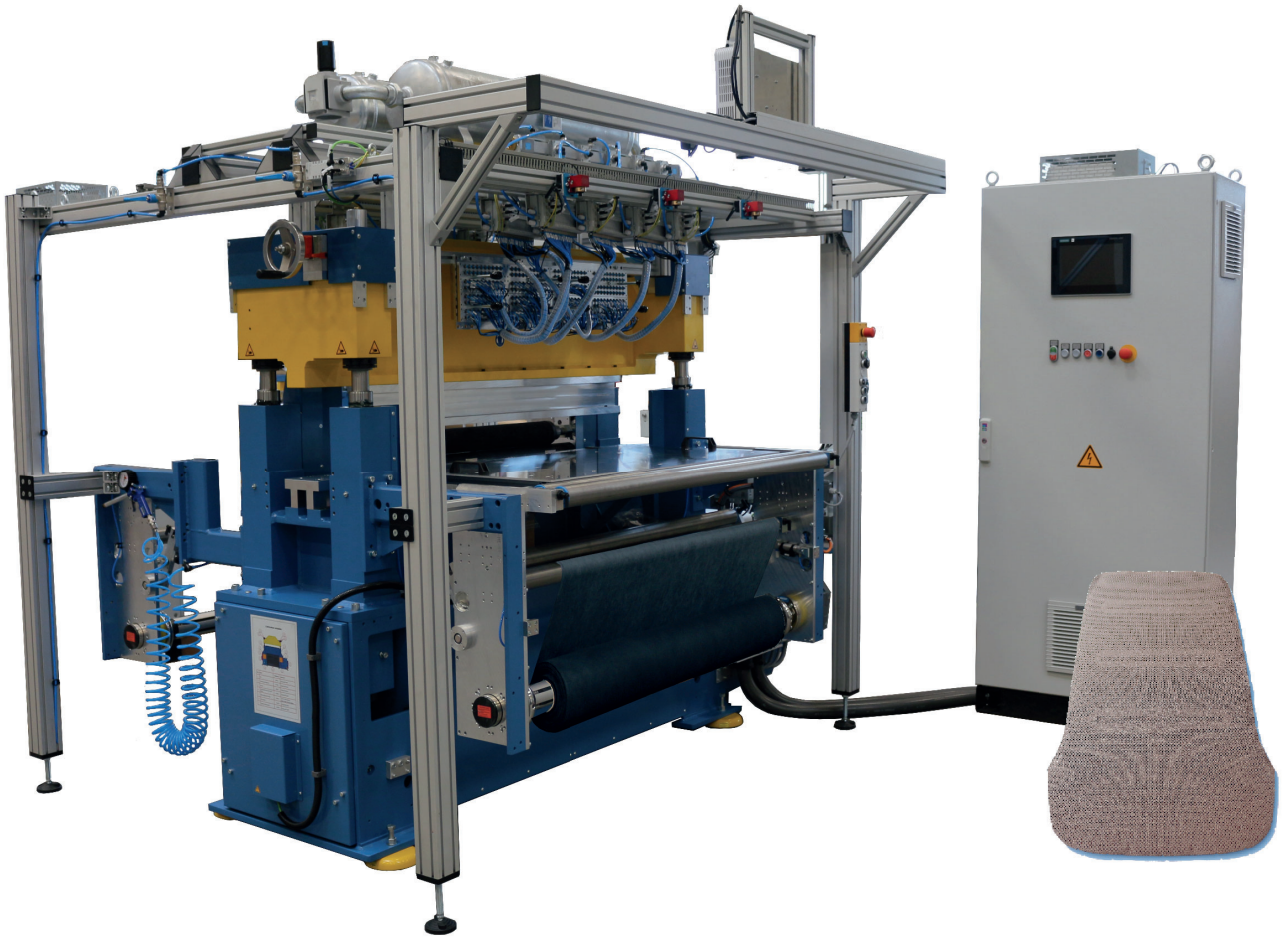
- „plates" for plate goods
  - without paper feed

- „AQC" with automatic tool change

Typ ME-Technology

Hiding Punch Marks

Ring Group

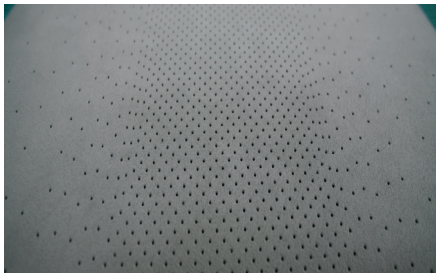


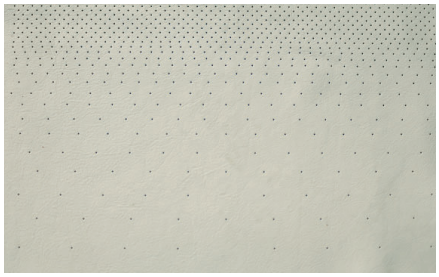
Gating technology suitable for:

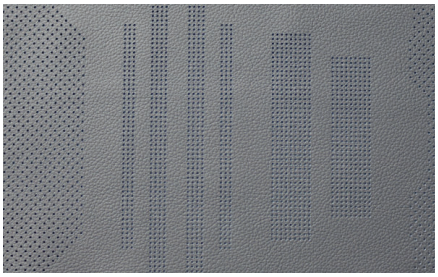
- from 800 mm-2000mm Operating width
- Special sizes on request
- Up to 300 punches per minute depending on the design/tool
- Block or single pin control
- Up to 4 pin sizes in one tool
- Multiple designs possible with one tool
- Placed perforation











Typ ME-Q-Technology

Additional Lateral Movement of the Standard & ME Punching Tools

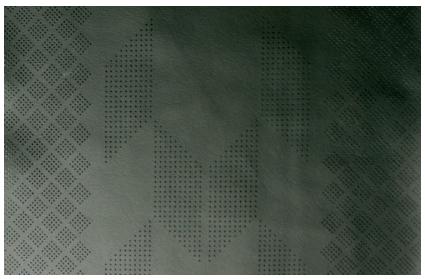
Ring Group

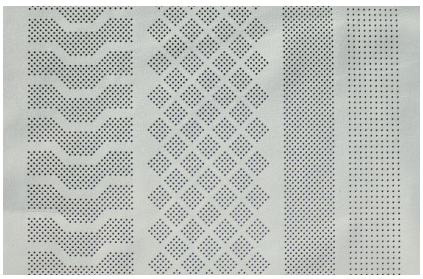


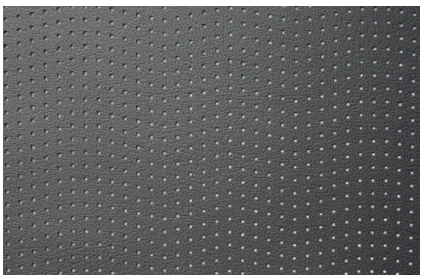
Gating technology with moving tool

- from 800 mm - 2000 mm Operating width
- Special sizes on request
- Up to 300 punches per minute depending on the design/tool
- Block or single pin control
- Up to 4 pin sizes in one tool
- Multiple designs possible with one tool
- Placed perforation

+ Transverse displacement
+ Design are possibil without repeat







AUTOMATION

Ring Group



With the automation of technical processes many productions tasks are performed in a economical and secure way.

- Use of automated load/unload systems with robots or handling modules
- Linking of individual processes with the relevant conveying and handling technology
- Integration of different labelling systems such as printing- or labelling systems
- Quality assurance by image processing systems
- Integration of different adhesive bonding technologies
- Use of rotary indexing table
- And much more …

We are happy to support you with the realization of your tasks

Typ HD

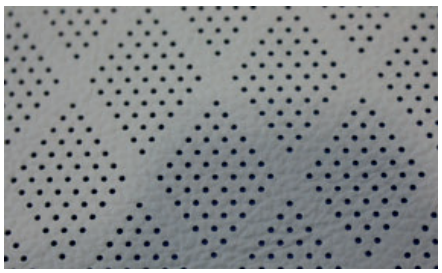
Design Perforating Machine

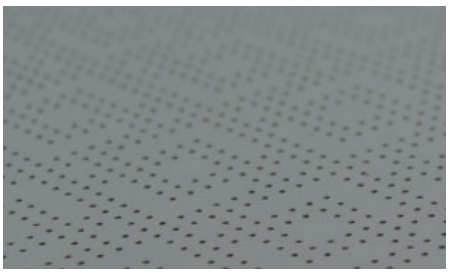
Ring Group

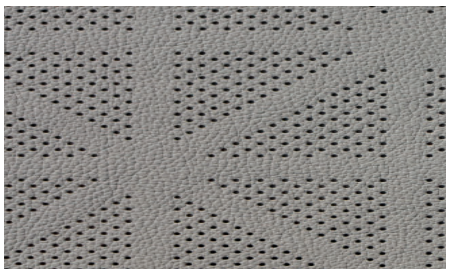


High-Performance Designer Perforating Machine

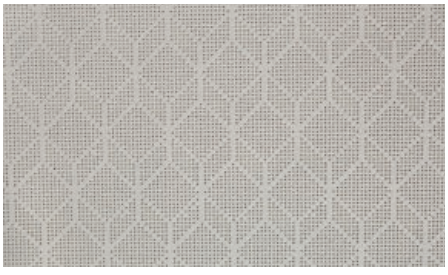
- Working width 800mm / 1050mm
- Tool with up to 4000 punches
- Up to 120mm repeat
- Design variety
- Placed perforation

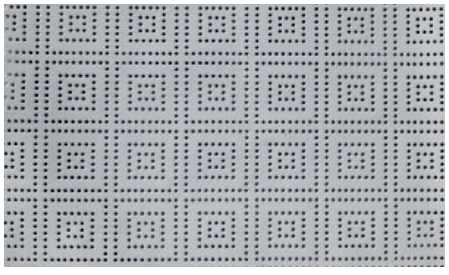












Typ HD XL

Design Perforating Machine

Ring Group

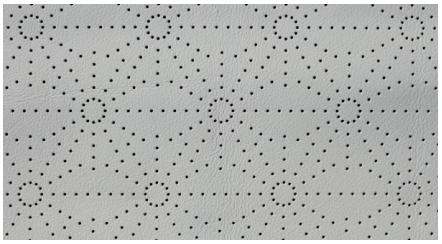
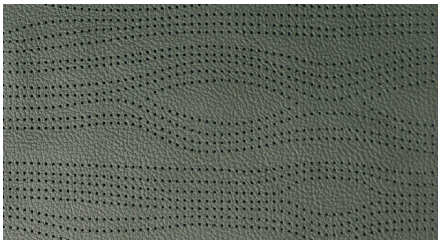


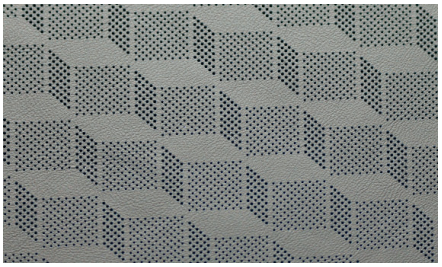
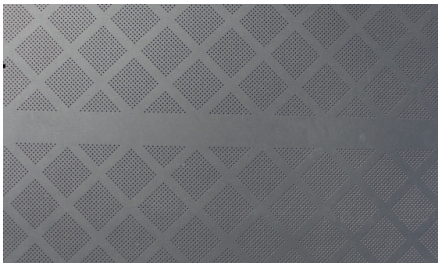
New and Extremely Durable Series of Perforating Machines

Machine with extremely high punching force
for dies with an extremely large number of punches, resulting in improved perforation quality and significantly longer service life

Technical Specifi cations:

- from 800 mm-2000 mm Operating width
- Special sizes on request
- Up to 300 punches per minute depending on the design/tool
- Tool height adjustment and feed adjustment via automatic tool recognition
- Industry 4.0

AQC -
AUTOMATIC QUICK CHANGE
for ST-90-D-4-S

Ring Group



Technical Specifications:

- from 800 mm-2000 mm Operating width
- Special sizes on request
- Up to 300 punches per minute depending on the design/tool
- Tool height adjustment and feed adjustment via automatic tool recognition
- Industry 4.0

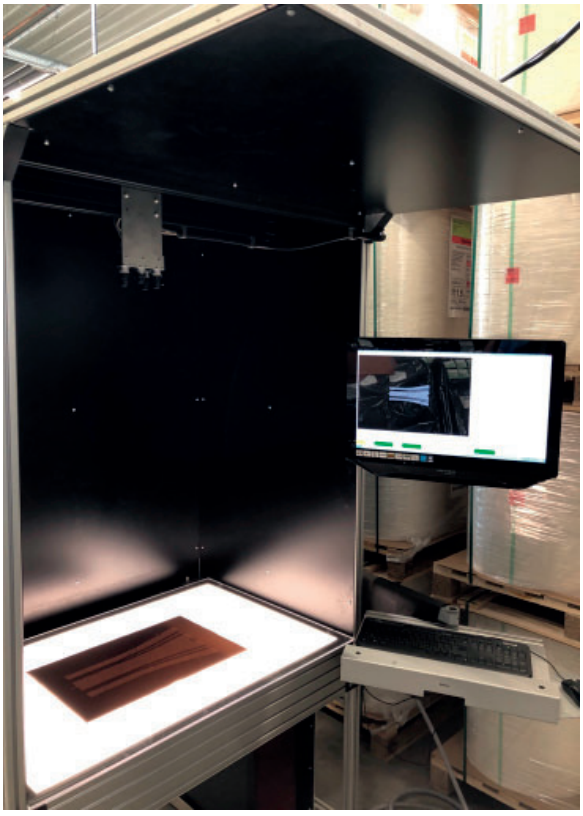
Options:

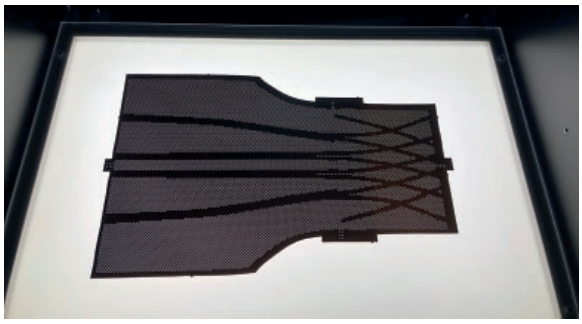
- Automatically tool change, up to 5 tools in the magazine
- Perforation tool clamping, no screws required

ACCESSORIES

CAMERA SYSTEM FOR QUALITY CONTROL

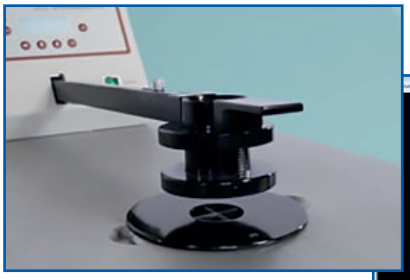
- External contour check of the blank
- Examination of the hole diameter
- examination of the perforation
- Number of holes
- hole position
- Checking the distance of the perforation to the outer contour
- Leather distortion measurement
- Create a measurement report

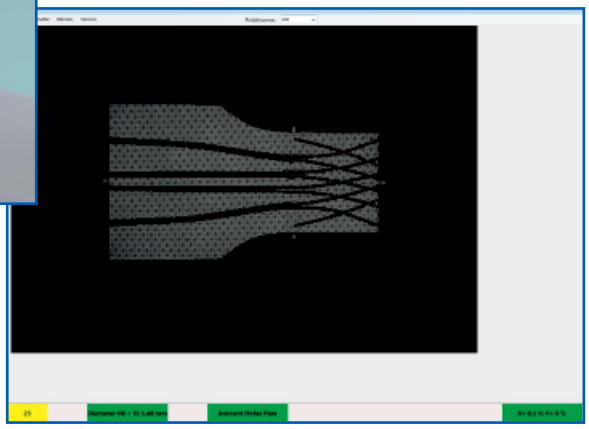












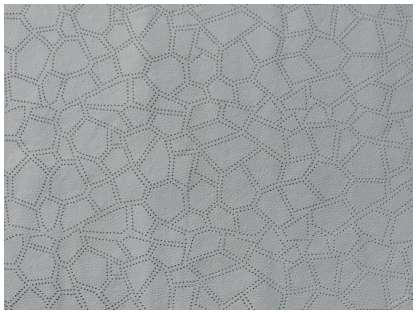
TYP - 1 STROKE

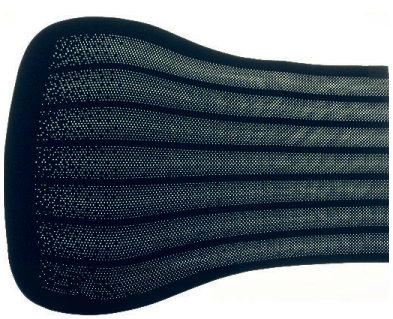
New "Ring Perforation" Technology -Higher Productivity

Ring Group











TYP - 1 STROKE

New "Ring Perforation" Technology—Higher Productivity

Ring Group

- quick tool change by lateral insertion
- hydraulic clamping
- automatic height adjustment
- automation
- Load and unload parts automatically



Technical Informations
1 Stroke-Perforation-Technology:

The placed perforation of each part will be done with only one stroke.

Power:

100 - > 300 t

Special Perforation for High Volume

- With different surfaces 100 x 100 mm to 1000 x 1500 mm
- up to 6 parts per minute
- Roll material (e.g. PU/PVC) is possible

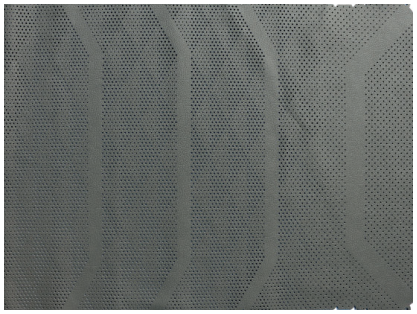
Area size:

100 x 100 mm up to 1000 x 1500 mm
WZ 1200 x 750

Weight depending on the version up to 21t

Dimensions:

Width: 4250 mm with mounting rail for tools
Height: 3285 mm







RING
HIGH SPEED CNC

Ring Group



Modelle:
RHS CNC 900/600-2
RHS CNC 1000/850-2
RHS CNC 1000/700-2
RHS CNC 800/600-2
RHS CNC 600/500-2

Includes Quick-Set feature for setting and adjusting tool length and immersion depth, as well as a tool set for routine machine tasks.



THE ULTRA-FAST CNC PUNCHING MACHINE FOR PROTOTYPE DEVELOPMENT

Ring Group

From the idea to the perforation in just a few minutes!

Different hole punch variations possible:

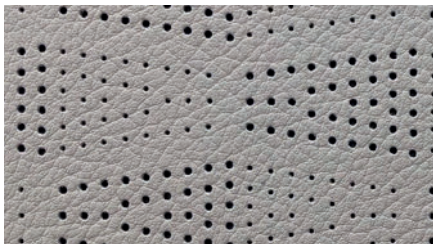
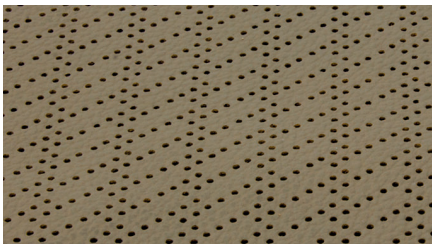
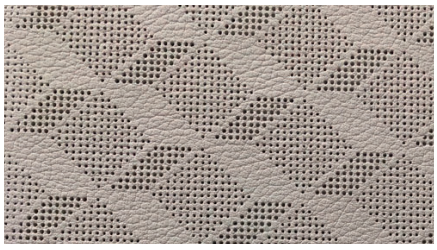
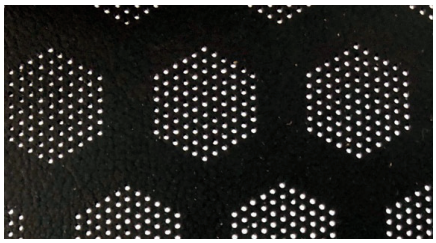
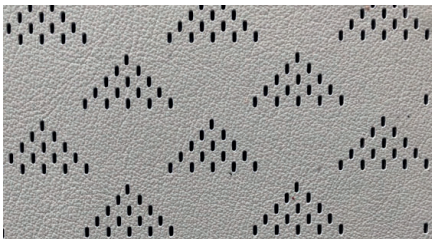
- Round
- Oval
- Square
- Rectangle
- Diamond



Different hole sizes in one design possible!

Technical specifications:

Useful height:	600 x 800 mm
Punch number:	up to 20 punch / sec.
Options:	without transport
	software
	tool changer
	Noise - cabin

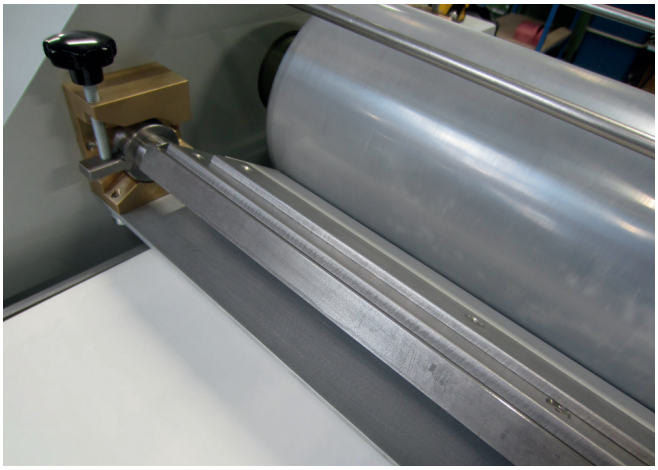







Ring Group







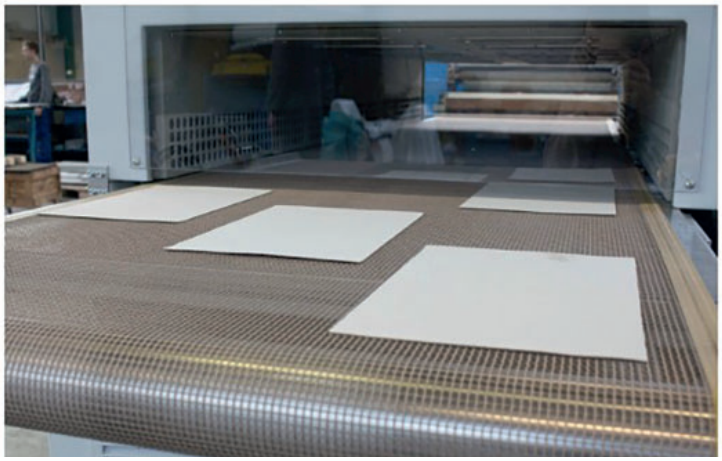


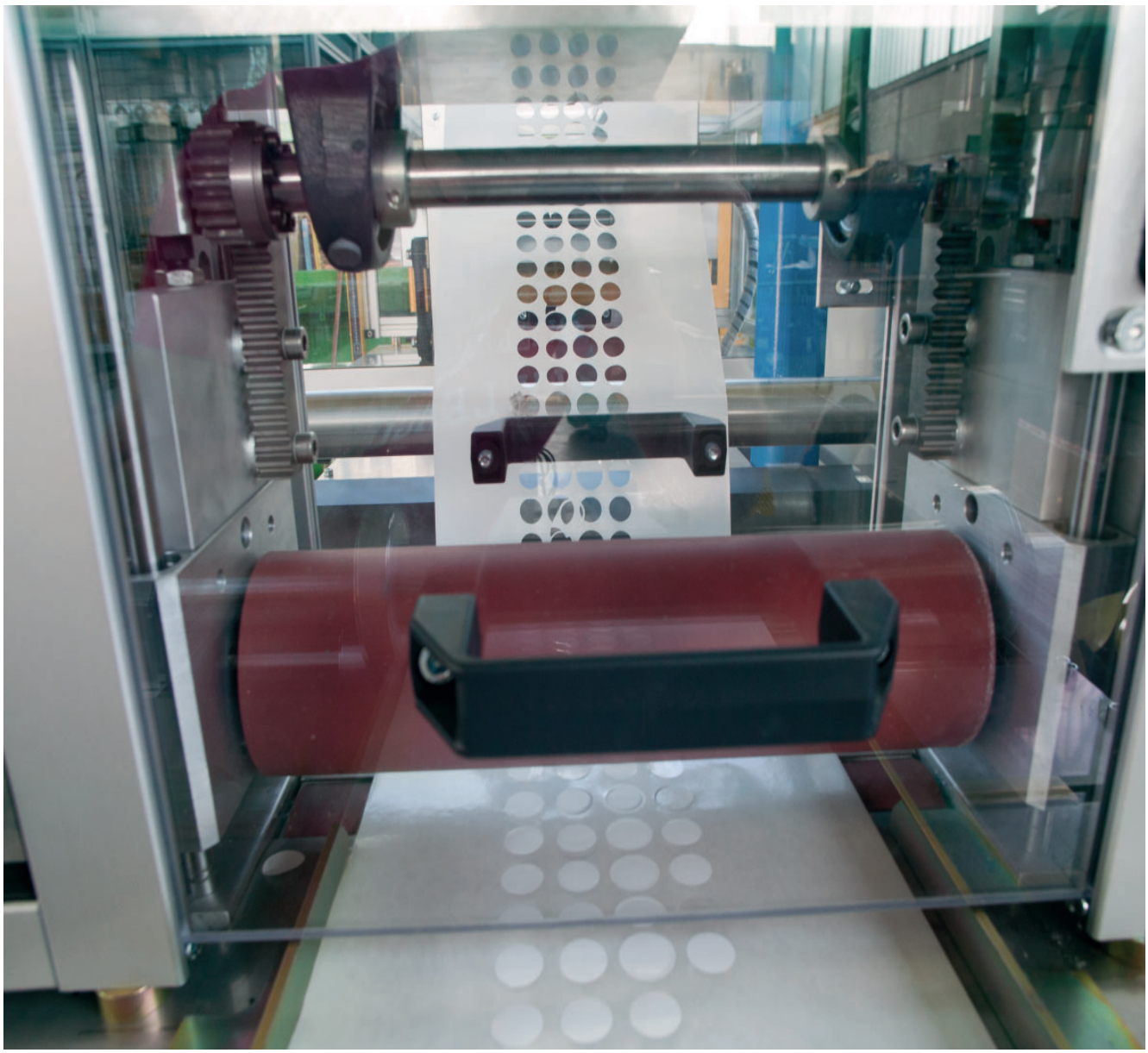
Rollencoater
with a drying tunnel

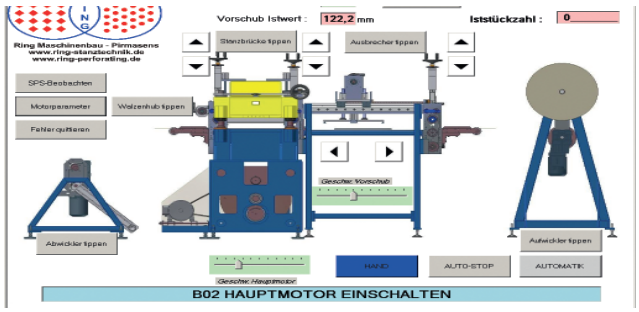
Ring Group

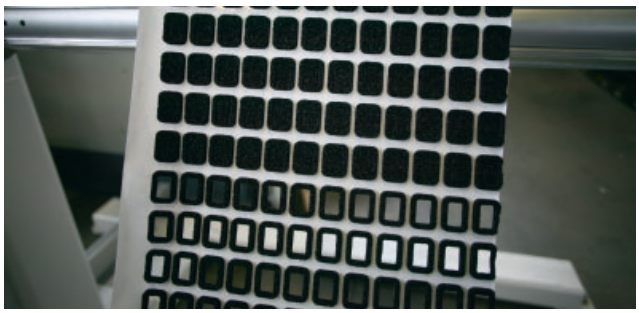


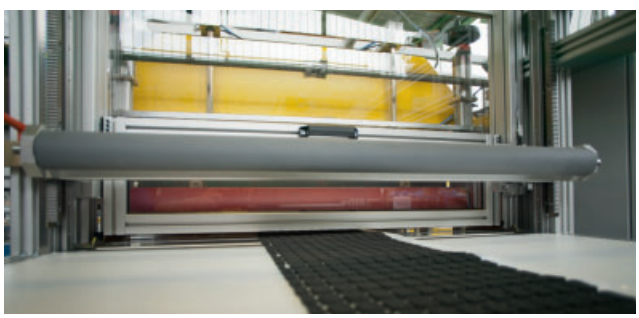
Plant for the application of dispersion adhesives and seasonings as well as the usual solvents by means of gravure roller, over which the order quantity is regulated. In the second step, a safe, gentle, fast drying and venting of the materials.

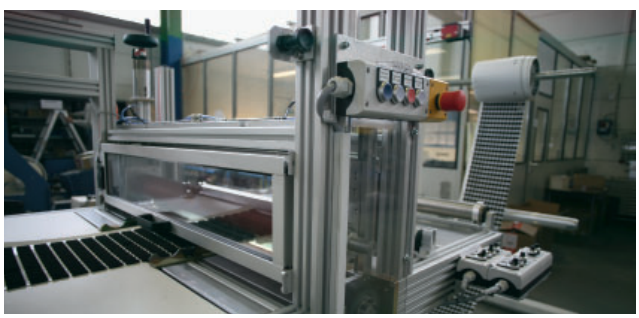





Vorschub Istwert :
122,2 mm
Iststückzahl :
0
Ring Maschinenbau - Pirmasens
www.ring-stanztechnik.de
www.ring-perforating.de
Stanzbrücke tippen
Ausbrecher tippen
SPS-Beobachten
Motorparameter
Walzenhub tippen
Fehler quittieren
Gerader Vorschub
Abwickler tippen
Aufwickler tippen
Gerader Hauptmotor
HAND
AUTO-STOP
AUTOMATIK
B02 HAUPTMOTOR EINSCHALTEN





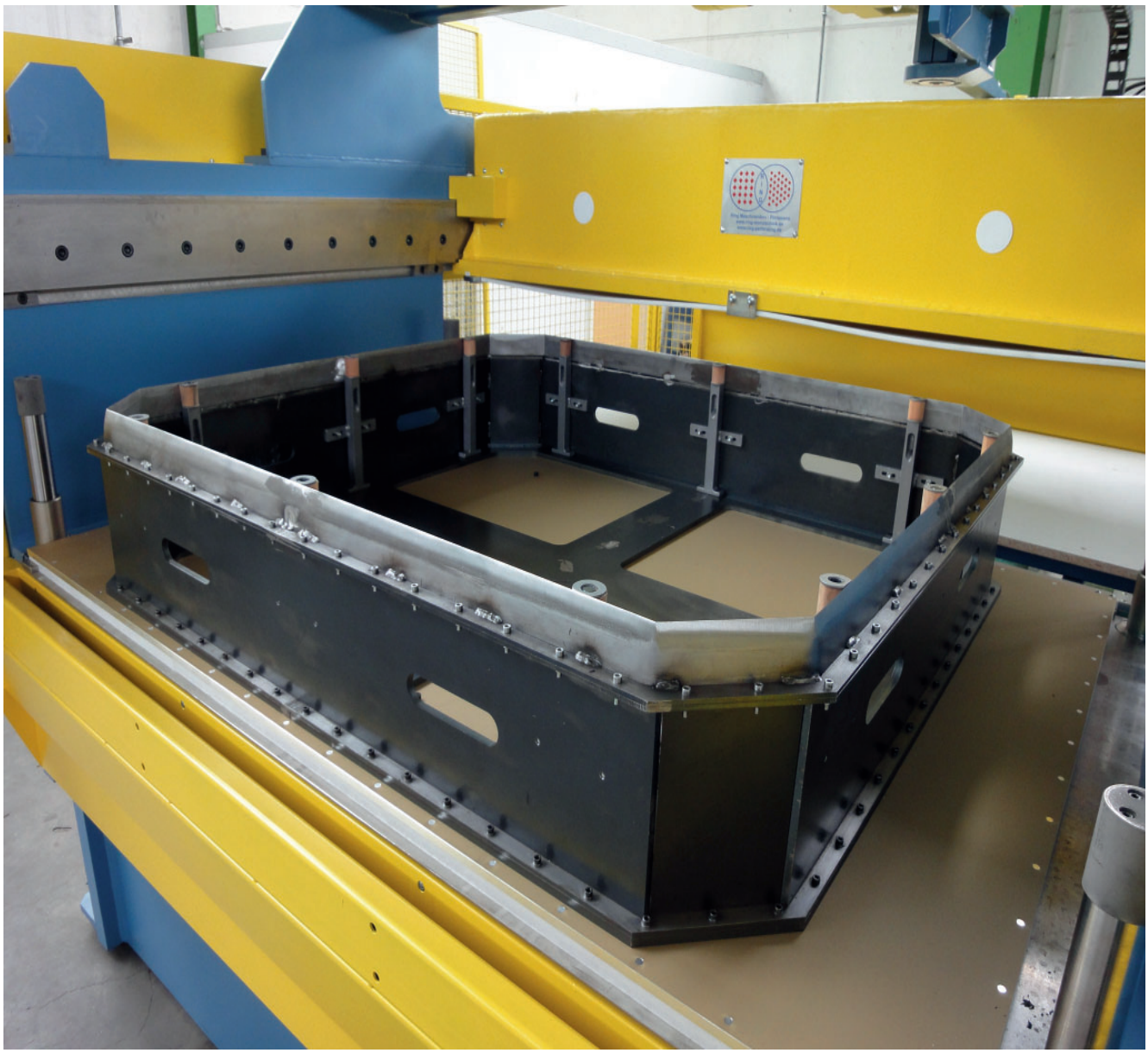


ST 90D-4S/A

Ring Group



The high speed cutting machine ST 90D is the result of 50 years of experience in the field of mechanical cutting machines linked with the requirements of large scale cutting industry.
We present a modular configurable high-speed cutting machine which can run up to 300 strokes per minute at high speed, depending on technical specifications and applications. The machine is suitable to cut against steel, PVC belt and especially suitable to kiss-cut

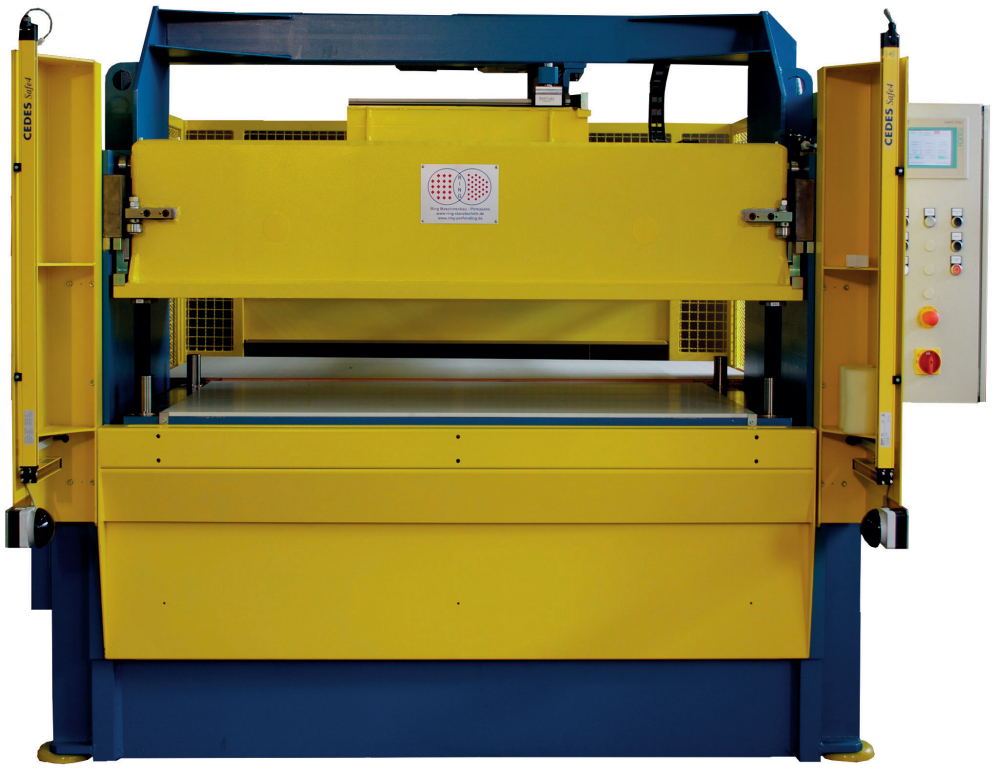




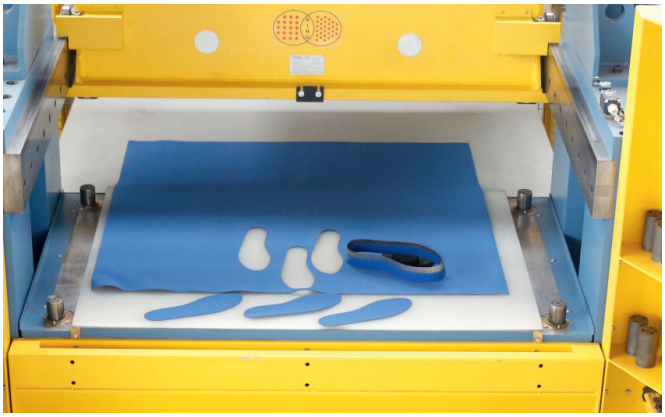


Typ HTR

Ring Group



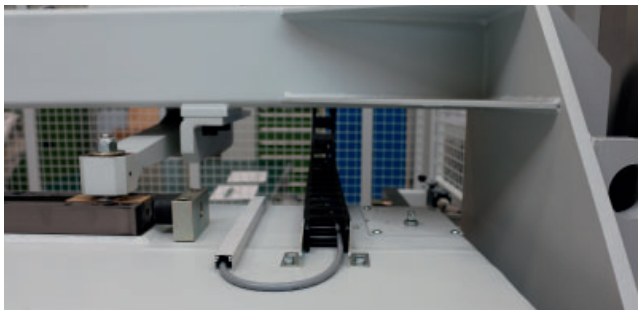
The idea behind was to create a series that combines an ideal mix of cutting power, stroke, speed, clearance height, beam daylight, useable cutting surface with a simple ease of use and maintenance friendliness.
Our experience in the sections of cutting, perforating and embossing led to this modular machine concept desi-gned individually according to the specific appli-cation, thereto powerful, reliable and economical.




SIEMENS
SIMATIC HMI
Grundbild
Hand
Automatik betrieb
Automatik Optionen
Hand-funktionen
Hydrauliktest
Maschinen Daten 1
Maschinen Daten 2
ALS-Service
Betriebsdaten
Systembild
Grundbild
Auto Optionen
Auto Seite
Hand Seite
Masch. Daten 1
Masch. Daten 2
Störung


02.09.2021 14:28:45
Grundbild
HAND
Ring Maschinenbau GmbH
Automatik-betrieb
Automatik Optionen
Hand-funktionen
Hydrauliktest
Maschinen Daten 1
Maschinen Daten 2
ALS-Service
Betriebsdaten
Systembild
Grundbild
Auto Optionen
Auto Seite
Hand Seite
Masch. Daten1
Masch. Daten2
Meldung löschen
Störung







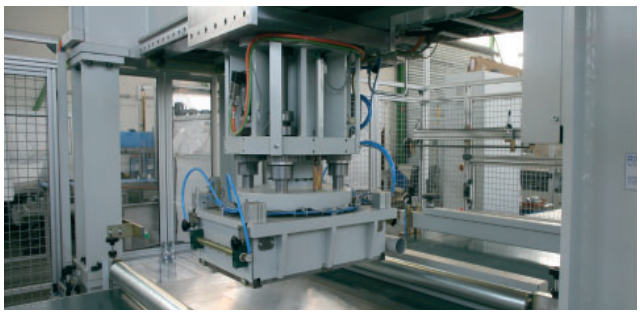
Typ HTR Servo

Ring Group



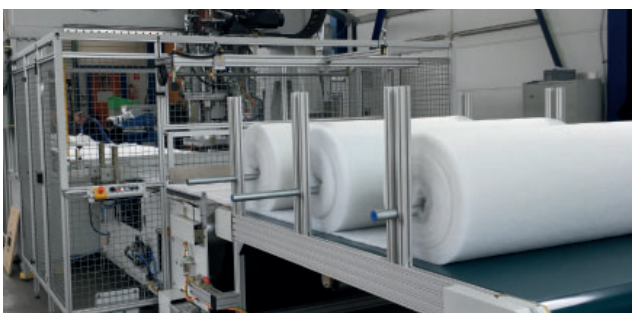
The mechanical structure of the servo hydraulic cutting machine type HTRS is identical to the previous model with conventional hydraulic system.
The HTRS provides several setting options at punching speed and punching pressure plus a servo driven height adjustment device for stop limits which allows more precise adjustments.
The servo hydraulic offers a significant advantage for thick and punching materials as speed and pressure adjustment is adapted to the requirements of the material.
Another advantage is the energy saving of the driving motor as it only runs in operation mode.


SIEMENS
SIMATIC HMI
TOUCH
Ring Maschinenbau
Automatikoptionen
19.09.2016
13:26:01
511 B11 Referenzpunkt Regler EXCENTER fehlt
Pr. Name:
test
Rollen-programm
Platten-programm
Platten anlegen am Auslauf
Material einziehen
Blasluft EIN
Vorschub beide Walzen EIN
X-Achse: Y-Achse: TP-Achse:
Sollwert: +850,0 +0,0 +99,73 mm
Istwert: +849,8 +0,0 +99,73 mm
Nullpunkt: +60,0 mm
Takte/min: 0
Stanzschritte: 21
Taktzeitverz.: 0,0 s
Lagen: 0
Nutzen: 0
Sollstückzahl: 0
Iststückzahl: 11251
Reset
Schritt: Opcode: X-Achse: Y-Achse: Z-Achse:
1 1 +50,0 +25,0 +0,0
2 1 +150,0 +0,0 +0,0
3 1 +250,0 +0,0 +0,0
4 1 +350,0 +0,0 +0,0
5 1 +450,0 +0,0 +0,0
6 1 +550,0 +0,0 +0,0
7 1 +650,0 +0,0 +0,0
8 1 +750,0 +0,0 +0,0
9 1 +850,0 +0,0 +0,0
10 1 +950,0 +0,0 +0,0
Einlaufwalze Auf/Ab
Auslaufwalze Auf/Ab
Messer höher
Messer tiefer
X-Plus
X-Minus
Stanzen von Hand
Schritt setzen: 2
Aktueller Stanzschritt: 1
Geschwindigkeits-einstellungen
AUTO
HAND
Stanz-programm
Maschinen Daten
Störungen Meldungen
System
Störung quittieren
Hand EIN
Automatik AUS
Automatik EIN
I - O
R
NOT-AUS









Typ KBS

Ring Group



Die präzise mechanische Bearbeitung garantiert eine exakte Planparallelität zwischen Maschinentisch und Stanzkarren. Die Verfahrbewegung des Stanzkarrens erfolgt über die komplette Durchgangsbreite, durch einen servomotorisch geregelten Antrieb. Die Stanzbewegung sowie der Rückhub erfolgen hydraulisch. Zylinder und Kolben sind hierzu senkrecht in der Druckeinheit eingebaut. Die Stanzmesserhöheneinstellung erfolgt durch druckloses Absenken des Drucktellers.

The precise mechanical processing guarantees accurate parallelism between machine table and crosshead. The crossheads programmed movement effects via an entire passage through a servo-motor regulated ball screw. The cutting stroke as well as the return stroke are operated hydraulically. Cutting stroke and return stroke are actuated hydraulically. The cylinder and piston are installed vertically. The die height setting is made by pressure-less down movement of the cutting head.







Typ KBSF

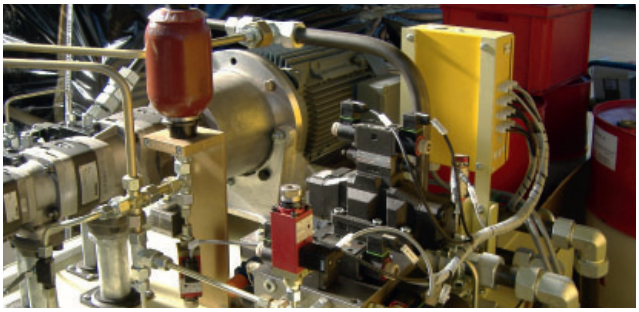
Ring Group

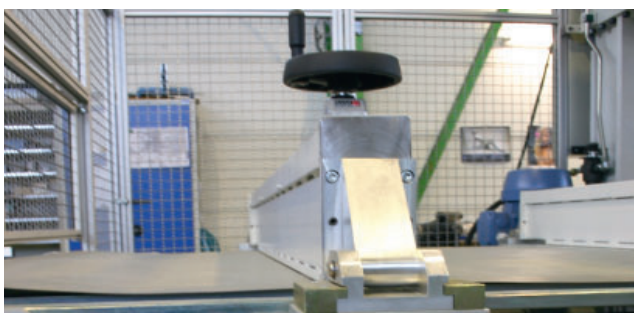


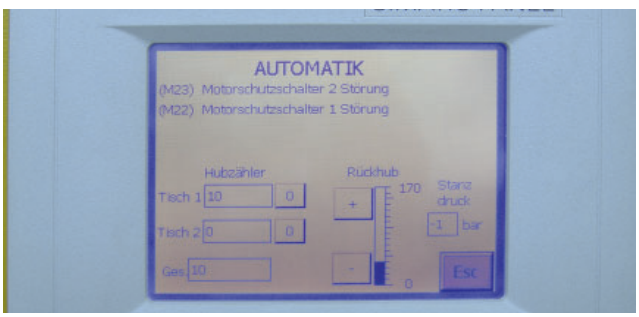
Electro- hydraulic down stroke press Type KBSF 1500
This machine is manufactured in an extremely twist resistant welded steel construction with a firmly attached pressure unit. The cutting stroke and the back stroke are driven hydraulically. Cylinder and piston are fitted vertically in the pressure unit.
In order to increase the clock speed the machine is equipped with a piston system. This allows to keep the compression space filled with oil during stroking. The benefit is, that even at high speed level only the actual amount of oil needed must be provided by pump.










AUTOMATIK
(M23) Motorschutzschalter 2 Störung
(M22) Motorschutzschalter 1 Störung
Hubzähler
Rückhub
Tisch 1
10
0
Tisch 2
0
0
Ges
10
170
Stanz druck
1
bar
Esc

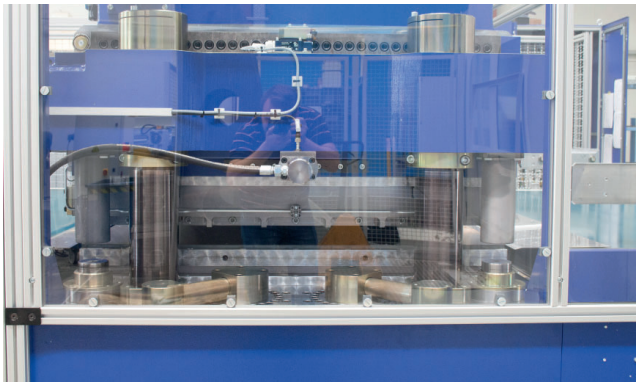
Typ GFS

Ring Group

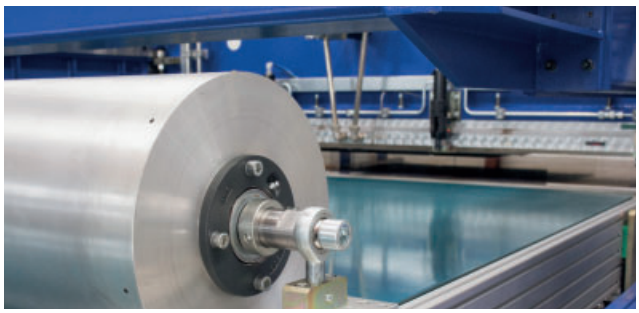


Very solid welded steel construction. Due to its construction, the machine is extremly rigid and runs with a high degree of synchronism, that means it closes nearly parallel under full off-centre load with full operating pressure.













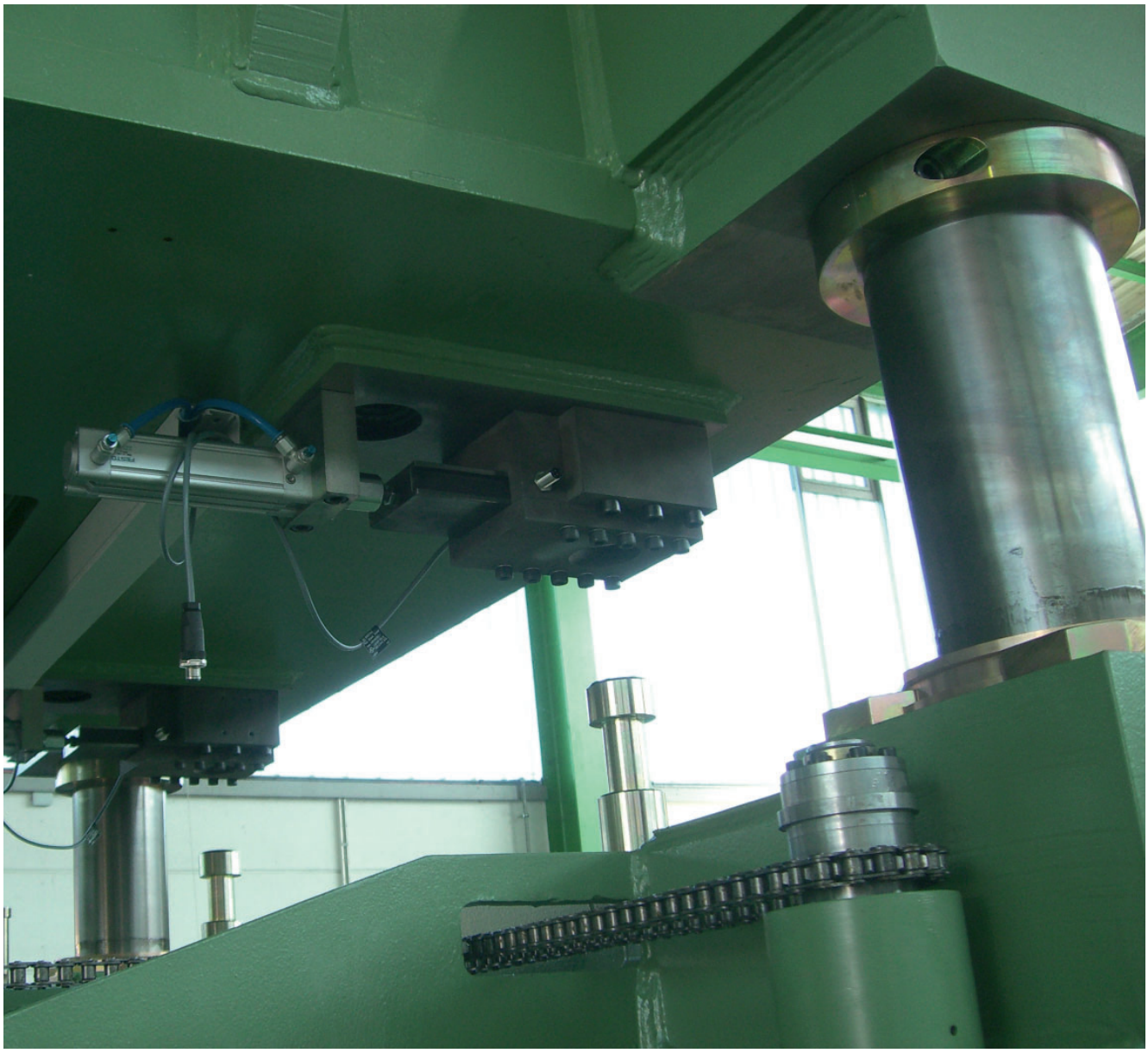


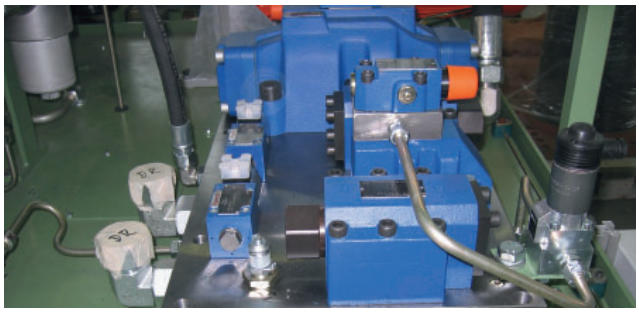
Typ GFSR

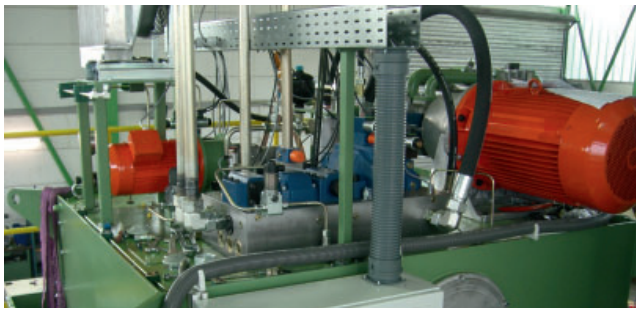
Ring Group

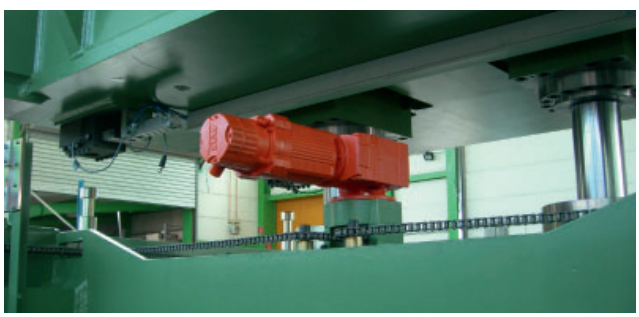


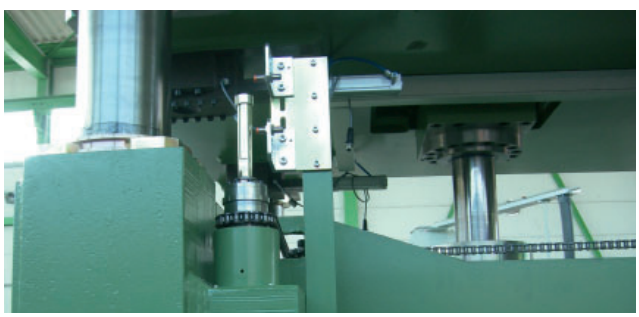
Very solid welded steel construction. Due to its design, the machine is extremly rigid and runs with a high degree of syschronism - this means that it closes nearly parallel under full off-centre load with full operating pressure. Due to the receding beam, the machine is to be equipped and operated manually. Higher degree of flexibility which provides.











Typ OKS

Ring Group

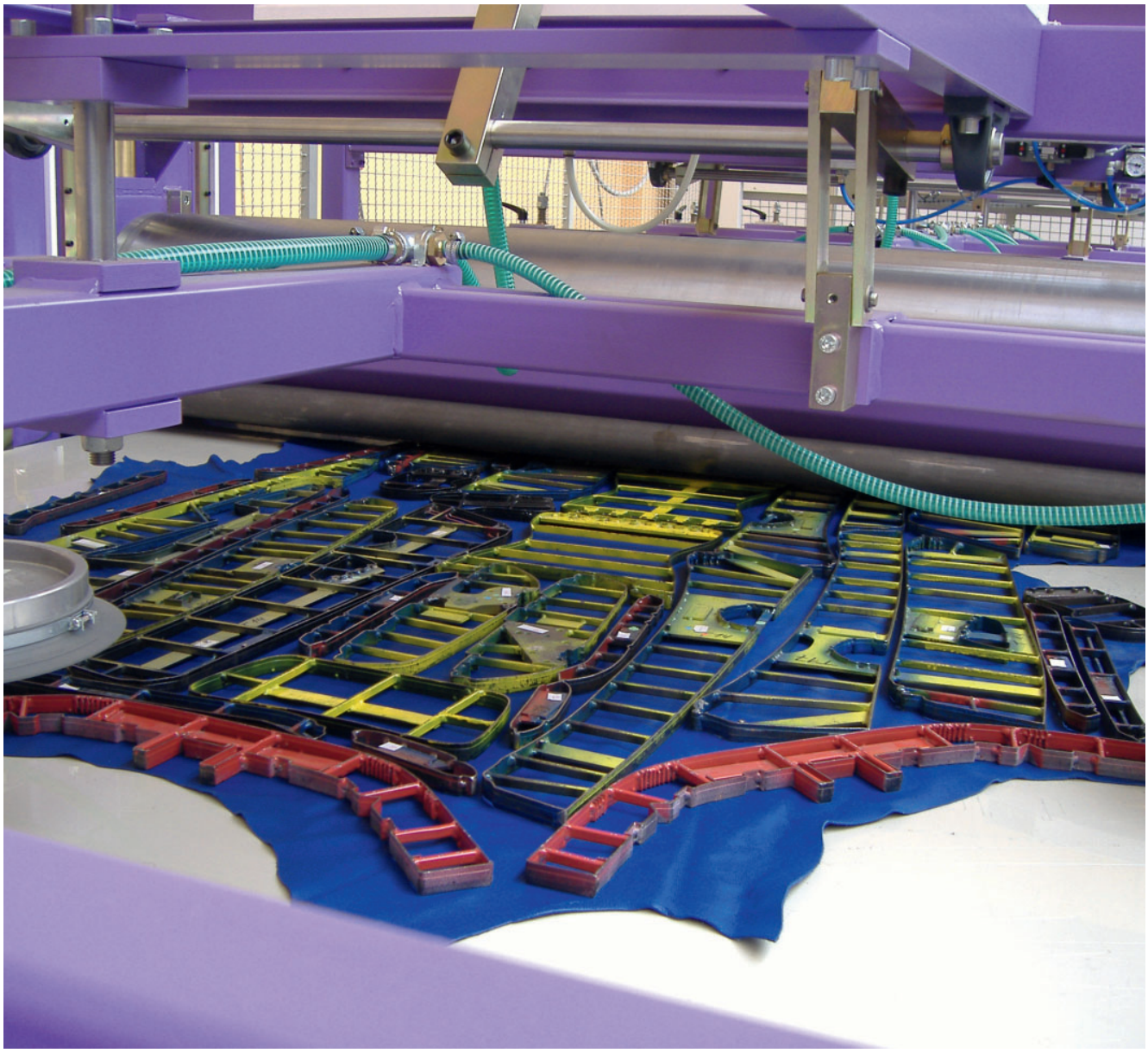


Rigid structure built, which ensures great stability and very smooth running, even with off-center loading.
Also in its large area, the machine is able to work against a hardened steel plate as well as to fabricate kiss-cut products. It has excellent embossing properties and can also be operated with moulding tools.
Due to its construction, no limits are set regarding working and stroke height.















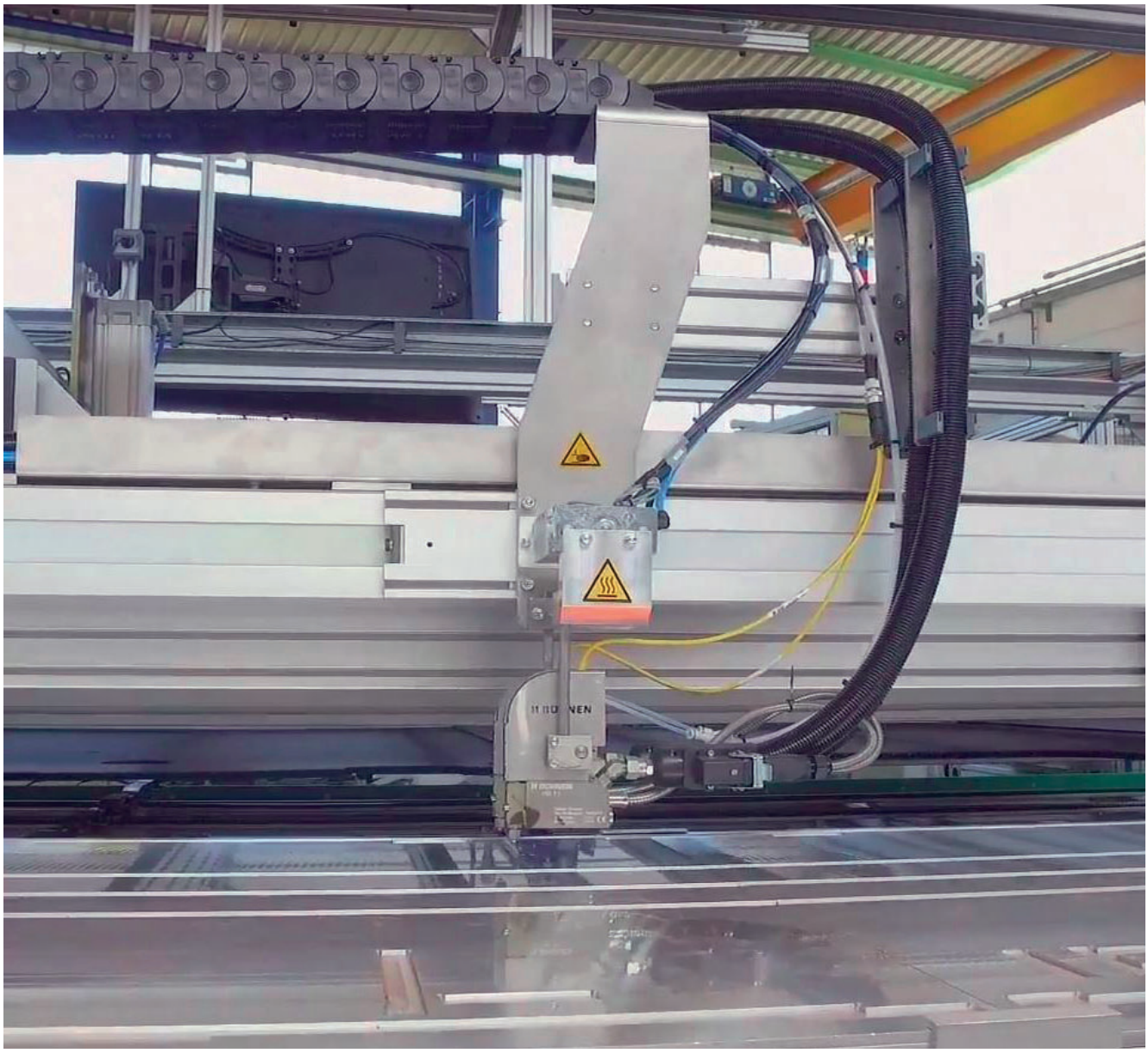


Typ RS

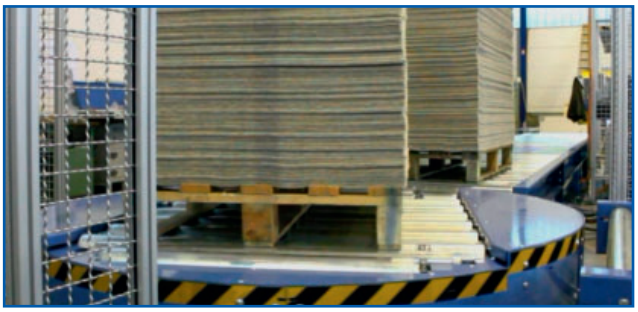
Ring Group

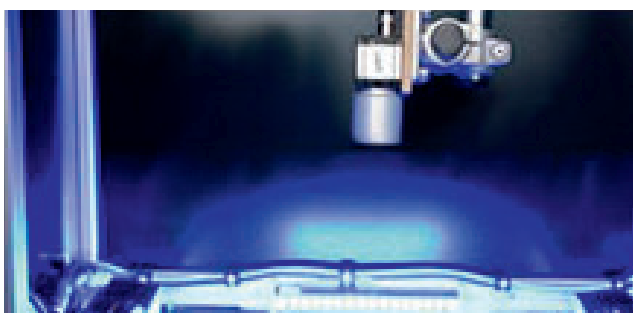


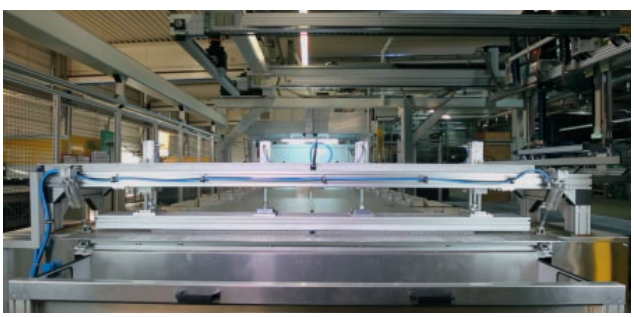
The very precise processing of the machine effects a minimum of wear of tools and cutting plates.
The monitoring system prevents that damages at the machine or at the tools can occure due to incorrect insertion of the preparation table. Technical innovations ensure an optimum utilization of the machine with more preparation tables.
The engine technology guarantees a continous transport in order to prevent damages of material caused by slipping of tools.





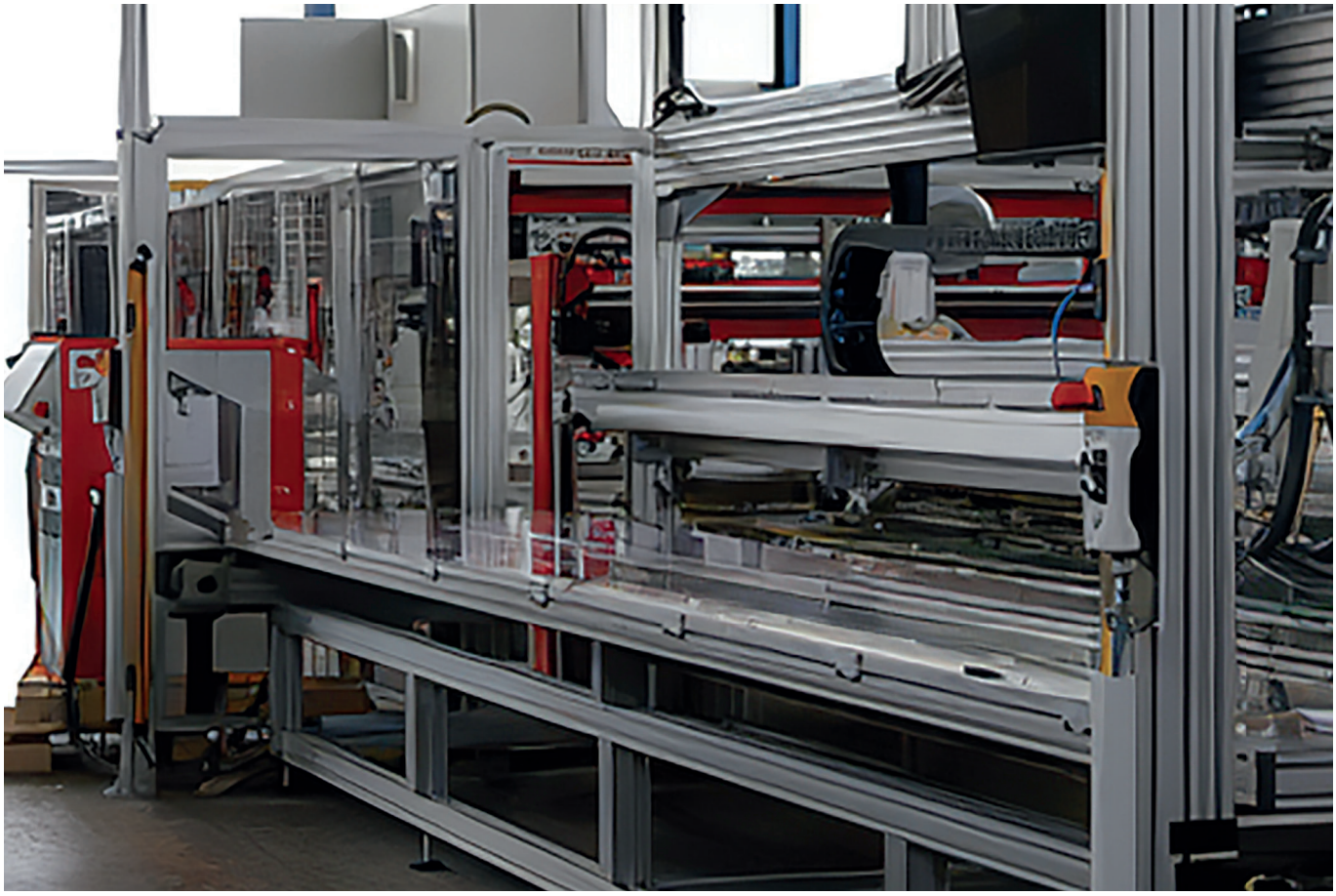






Ring Group

SPECIAL FACILITIES



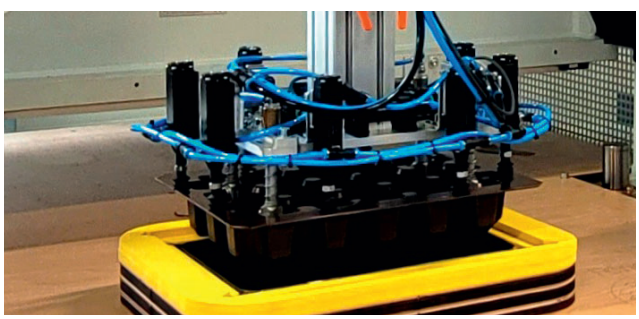
RING develops, constructs and manufactures even complex solutions in the field of special machinery.
These are individual tailored to the needs of our clients.
Whether embossing machine, conversion plant, control systems or handling tasks, together with you we find the efficient special plant suitable to your needs in order to increase your productivity and quality.

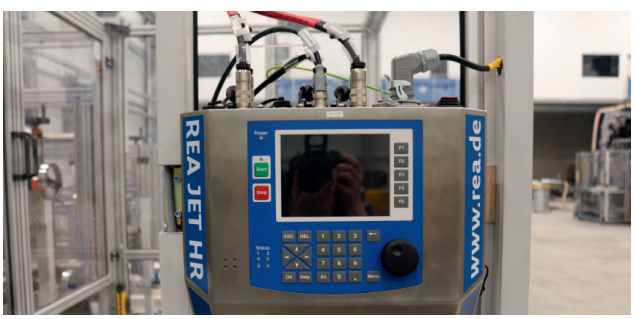
As a client at Ring you receive a full-service-package with one contact, who assist you from the early beginning until start-up/launching. Afterwards our competent After Sales Team is happy to support you with service and maintenance work.





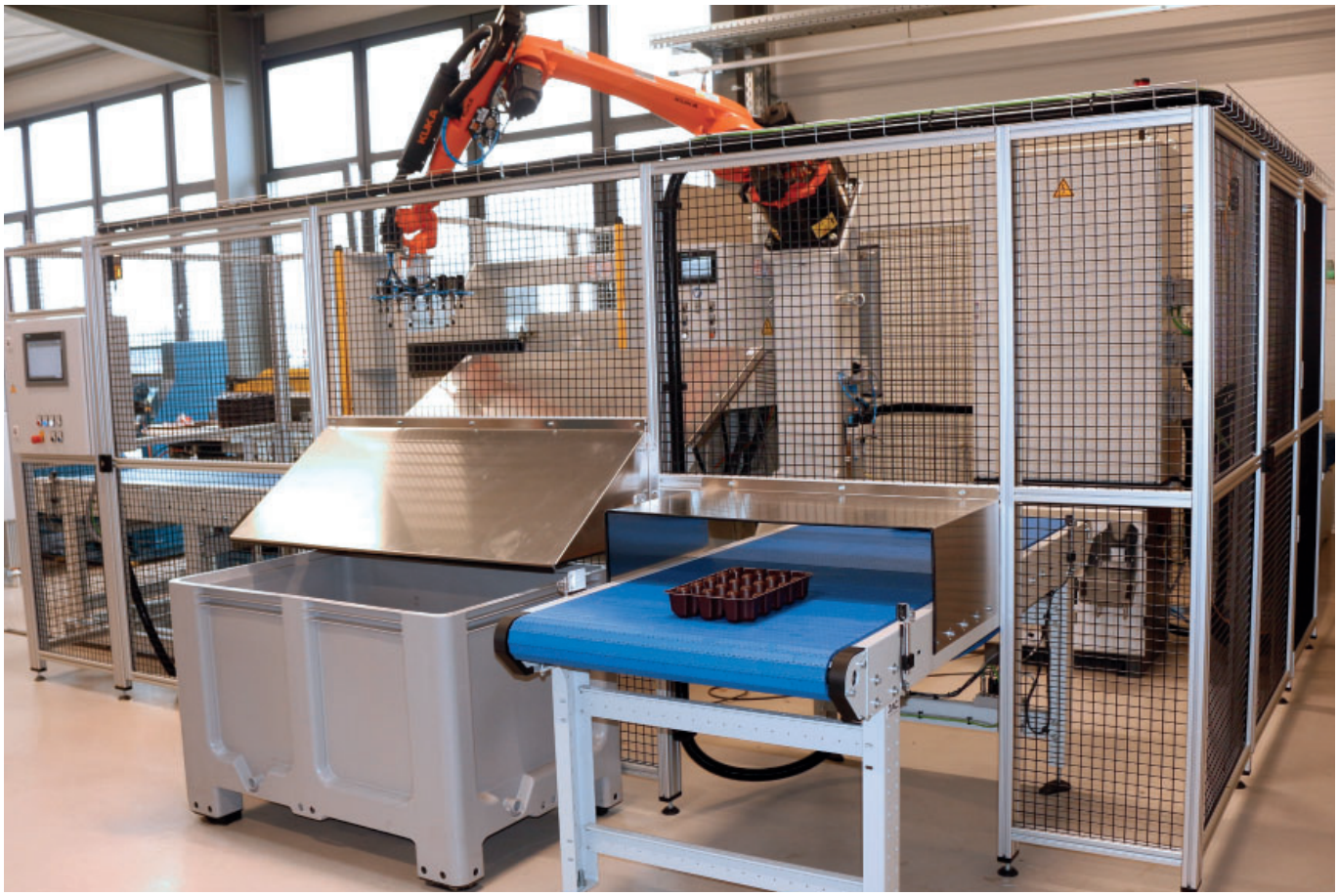

cab
Hermes +




REA JET HR
www.rea.de

Ring Group

AUTOMATION



With the automation of technical processes many productions tasks are performed in a economical and secure way.

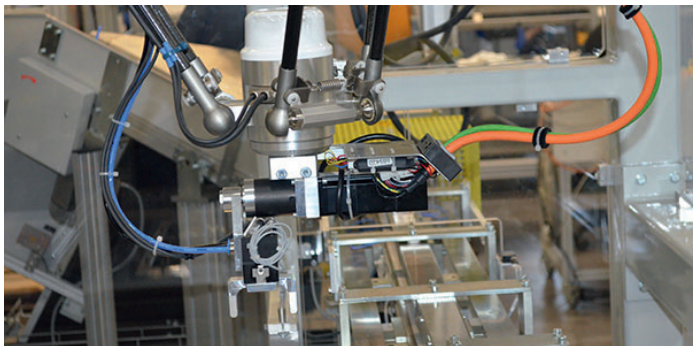
- Use of automated load/unload systems with robots or handling modules
- Linking of individual processes with the relevant conveying and handling technology
- Integration of different labelling systems such as printing- or labelling systems
- Quality assurance by image processing systems
- Integration of different adhesive bonding technologies
- Use of rotary indexing table
- And much more …

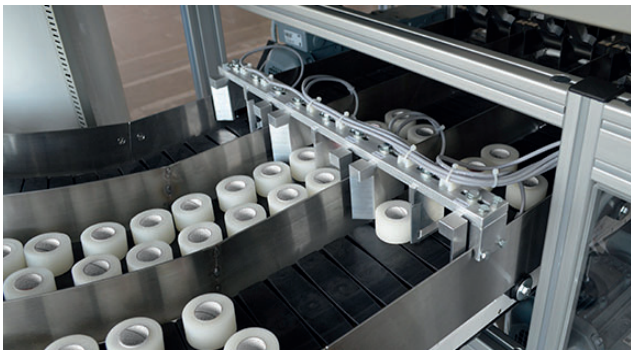
We are happy to support you with the realization of your tasks



PKM Automation GmbH
Massachusetts Avenue 22, D-66953 Pirmasens
Telefon +49 6331 1433-0 | info@pkm-automation.com







Ring Group

PKM-AUTOMATION



The Pirmasens-based company PKM Automation GmbH has made a name for itself as a specialist in automation along complex packaging lines. With a lot of competence, innovative spirit and performance, it offers individual solutions for customers from the medical, pharmaceutical, consumer and food sectors - including national companies as well as international corporations and global players.

Wherever standard systems simply do not fit, PKM develops and designs tailor-made solutions according to customer-specific requirements. The goal: increase the effective productivity of customers – and become even more successful together.

Sales Perforating Machines

Lucas Ring
Sales
Phone +49 6331 5181-0
L.Ring@Ring-Group.eu

Christian Gehrlein
Sales / Prototype and
Design Development: Perforation
Phone +49 6331 5181-271
Mobil: +49 173 3578348
Mail: C.Gehrlein@ring-group.eu

Axel Richter
Sales and Support Europa
Phone +49 6331 5181-0
Mobil: +49 174 2793275
Mail: A.Richter@ring-group.eu

Sandra Schlotter
In-House Sales
Machinery/Tooling + Replacement Parts
Phone +49 6331 5181-914
Mail: S.Schlotter@ring-group.eu

Sales Die-cutting Machines

Bernd Vogt
Sales / Project Coordination
Phone +49 6331 5181-904
Mobil: +49 172 5154362
Mail: B.Vogt@ring-group.eu

Volker Malvaso
Sales of Punching Machines +
Punching Dies
Phone +49 6331 5181-919
Mobil: +49 151 16166000
Mail: V.Malvaso@ring-group.eu

Martin Dern
Sales of Punching Machines +
Punching Dies
Phone +49 6331 5181-906
Mobil: +49 172 6819041
Mail: M.Dern@ring-group.eu

Sales Contract Perforation

Benjamin Peters
Operations Manager, Contract Perforation
Phone +49 6331 5181-245
Mobile: + 49 173 9699006
Mail: B.Peters@ring-group.eu

Maria Fischer
Contact Person /
Contract Perforation
Phone +49 6331 5181-226
Mail: ma.fischer@ring-group.eu

Sebastian Renneis
Production Management
Phone +49 6331 5181-242
Mail: s.renneis@ring-group.eu

Roland Vogt
Sales of Punching Machines +
Punching Dies
Phone +49 6331 5181-905
Mobil: +49 172 6214510
Mail: r.vogt@ring-group.eu

Frank Dziejak
Sales of Punching Machines
Phone +49 6331 713-136
Mobil: +49 151 11533061
Mail: F.Dziejak@ring-group.eu

Sales Automation

Harald Cronauer
Project Management
Phone +49 6331 5181-913
Mobil: 0152 21886062
Mail: H.Cronauer@ring-group.eu

Hole Pattern Development

Jennifer Scheler
Prototype and Design Development: Perforation
Phone +49 6331 5181-271
Mail: j.scheler@ring-group.eu

Service Department - Perforating Machines

Friedrich Urich
Service Technician
Phone +49 6331 5181-0
Mobil: +49 1626991484
Mail: f.urich@ring-group.eu

Sven Dirie
Service Technician
Phone +49 6331 5181-0
Mobil: +49 15110821212
Mail: s.dirie@ring-group.eu

Service Department - Die-cutting Machines

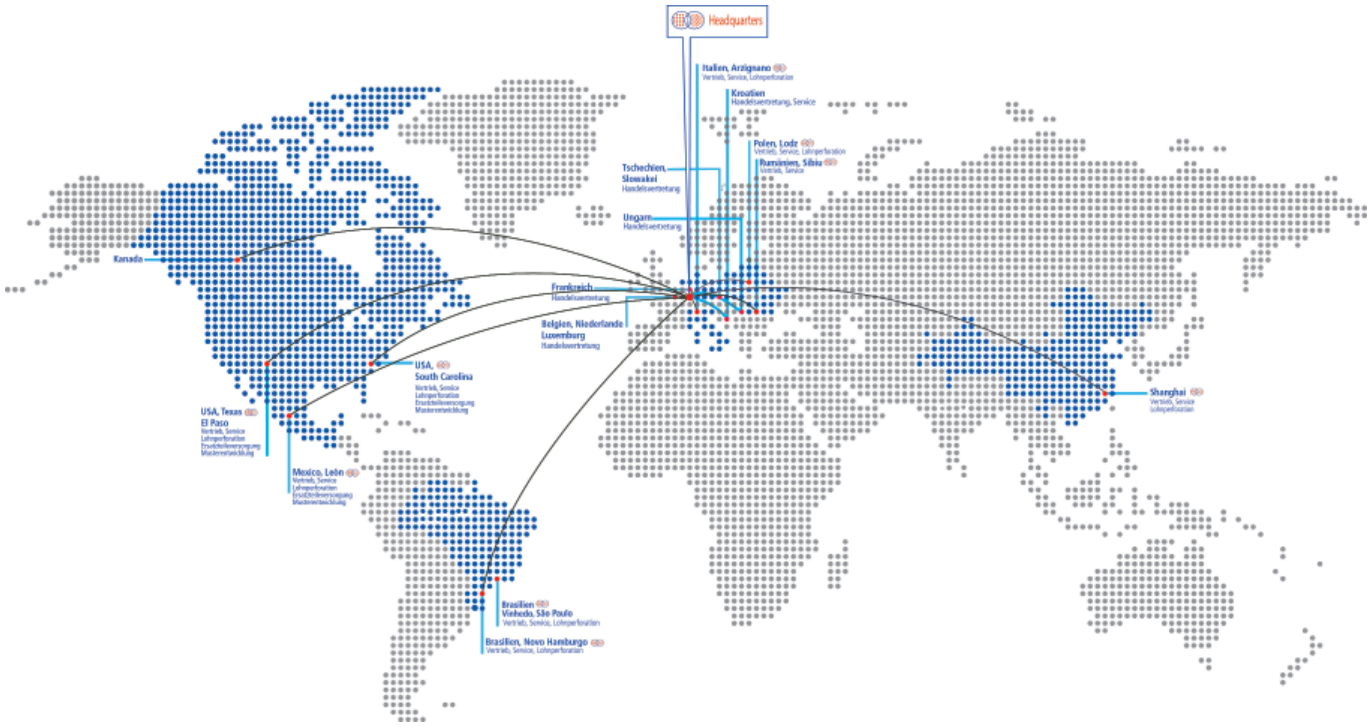
Dirk Traxel
Service Department
Phone +49 6331 5181-810
Mobil: +49 151 10821211
Mail: d.traxel@ring-group.eu

Michael Schreiber
Service Department
Phone +49 6331 5181-815
Mobil: +49 162 9812023
Mail: m.schreiber@ring-group.eu

Logistics + Coordination

Jasmin König
Logistics + Coordination
Phone +49 6331 5181-908
Mail: J.Koenig@ring-group.eu

YOUR PARTNER - WORLDWIDE



Headquarter

Blocksbergstraße 151 | D-66955 Pirmasens | Telefon + 49 6331 5181-0 | info@ring-group.eu

Sales Italien
Mirco Lovato
Sales Dose-Ring Italia srl.
Phone: +39 0444450169
Mobil: +39 3351049837
Mail: info@doseitalia.it

Sales Polen
I. Ziolkowski
Sales Polen
Phone: +48 42 64 00 158
Mobil: +48 500 655 040
Mail: i.ziolkowski@op.pl

Sales Tschechien
Svatoslav Osmera
Sales Tschechien + Slowakei
Phone: +420 568 851 372
Mobil: +420 602 270 741
Mail: ringcz@seznam.cz

Sales Rumänien
Ralf Ernst
Sales
Mobil: +40 786 452543
Mail: r.ernst-romania@ring-group.eu

Sales USA | Mexiko | Kanada
Sertan Toraman
Sales USA + Kanada
Phone: +1 727 5157950
Mail: S.Toraman@ring-usa.com

Salesand Marketing -Nordamerika
Jody Propst
Phone: (828)-238-1336
Mail: J.Propst@ring-usa.com

Sales Mexico
Francisco Ramirez
Phone: +52 (477) 962 91 70
Mail: F.ramirez@ring-mexico.com

Sales Brasilien
Cristiano Franco
Sales Brazil (Sao Paulo)
Phone: +55 19 3836 2424
Mail: ring.sp2@gmail.comLucas Matte
Ring Brazil (Novo Hamburgo)
Phone: +55 51 3 524-4250
Mobil: +55 51 99239-4548
Mail: ring.brasil@terra.com.br

Sales Niederlande | Belgien | Luxemburg
Rudi Colsoul
Sales Belgie
Phone: +32 16 36 99 33
Mail: rc@bnl-machines.comRudi Colsoul
Sales Nederland
Phone: +31 23 529 38 37

Sales Shanghai
Jack Cui
Ring China Machinery Technology Co., Ltd.
Phone: +8621-60317762
Mobil: +86 13764267831
Mail: cuiguide@163.com

YOUR PARTNER WORLDWIDE











Ring Maschinenbau GmbH
Blocksbergstraße 151 | D-66955 Pirmasens
Tel. + 49 6331 5181-0 | Fax : + 49 6331 92422
Email: info@ring-group.eu

www.ring-group.com