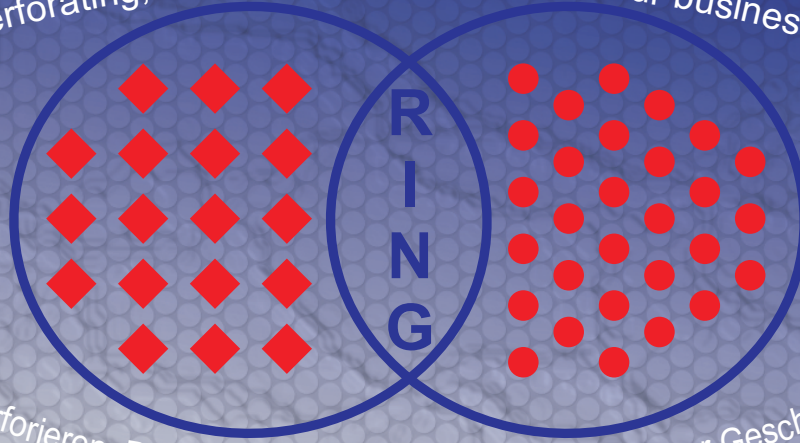




Perforating, embossing and cutting are our business



Perforieren, Prägen, Schneiden und Stanzen ist unser Geschäft

Ring Deutschland "Headquarter"

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Porto Alegre






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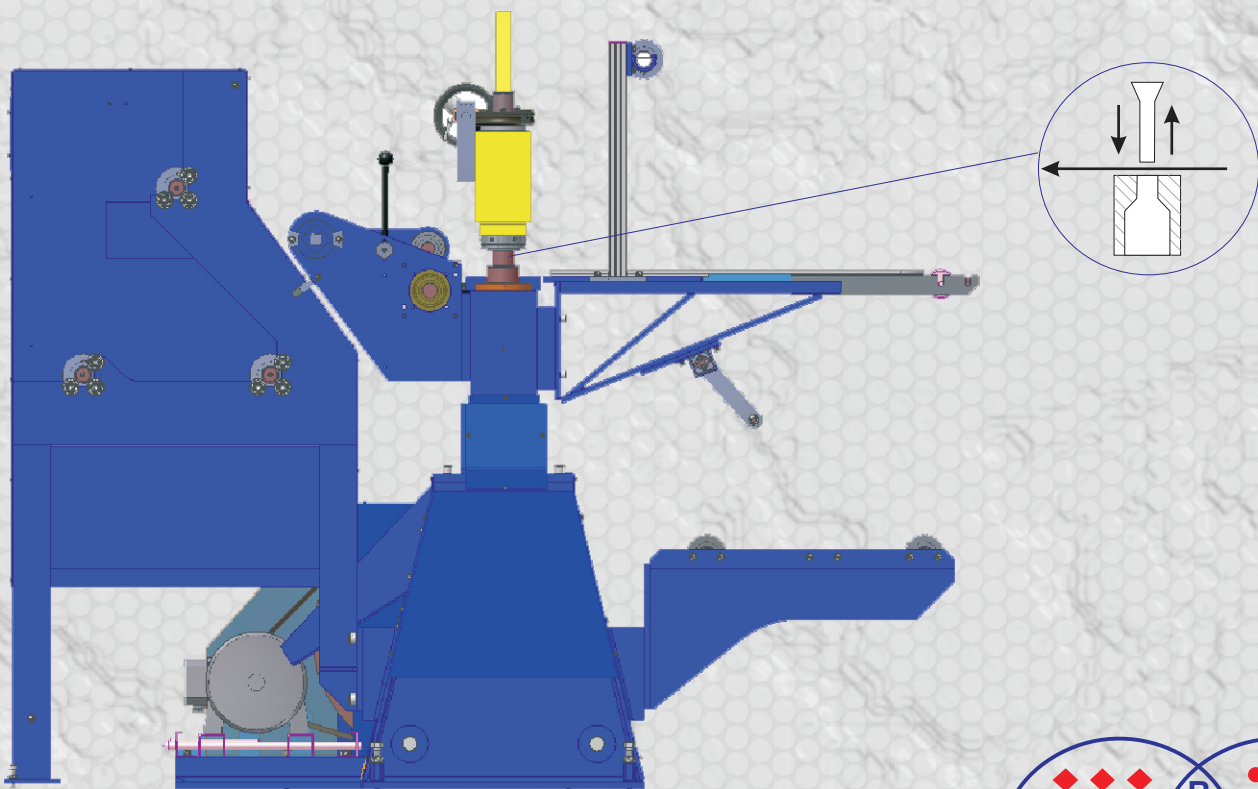
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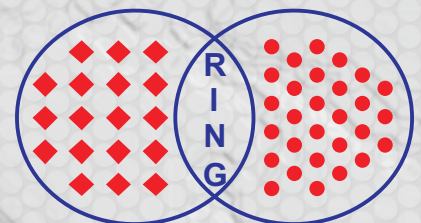
We are always the right partner for you! The Ring group  of companies has been your specialist for more than 50 years in matters of perforation or embossing. These decades of experience and on-going development make it possible for us to pass on state-of-the-art technical standards of perforating to you, the customer. Whether it's design development, contract perforating, machines, tools or maintenance and regrinding service you need, it's our business.

Perforations are used in a wide range of industrial branches. They are used for reasons of design or for technical applications, for example for air permeability or for PCB panel manufacture.

In the area of perforations a distinction is made between visible and invisible perforations. Invisible micro-perforations are tiny needle pricks with up to 400 holes per square centimetre, resulting in air permeability.



Your Partner for Perforations





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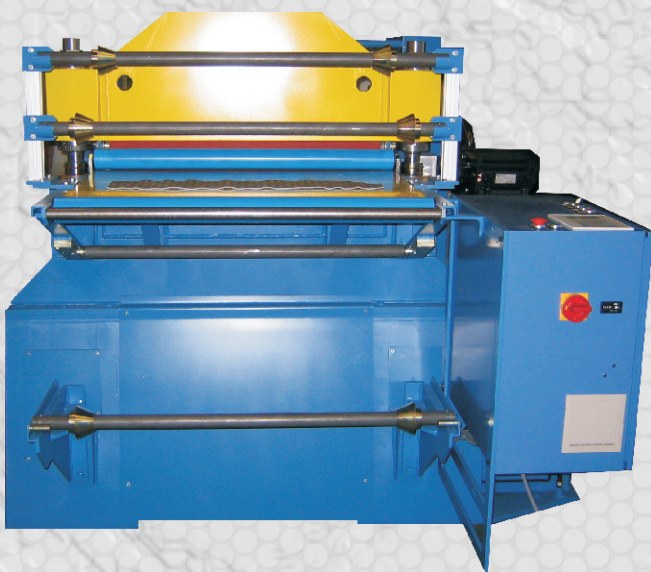
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Two different technologies can be used for visible perforating: cutting tools or perforating punch tools. The latter is mainly used in the fashion industry, e.g. for clothing, shoes etc., since materials for fashion purposes are usually perforated in this way. The advantage is a more favorable purchasing price, but the follow-on costs are considerably higher, since thick cardboard is required for punching.

For this reason, cutting tools are used wherever quality, high quantity, high production and safety are important. The system used is a "Patix-Matrix system" with tempered piercing punches and cutting plates as a shearing cut. The cutting plates and piercing punches can be reground several times and be supplied as a wear-and-tear part.

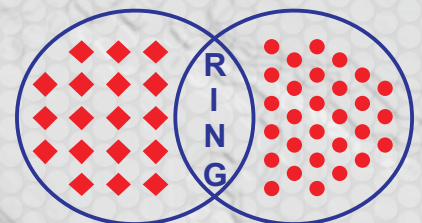
Perforating machine ST - D



Model:	ST 600-D	ST 800-D	ST 1050-D	ST 1350-D
Useful width:	600 mm	800 mm	1050 mm	1350 mm
Width:	1,90 m	2.00 m	2.21 m	2.51 m
Depth:	2,10 m	2.10 m	2.10 m	2.10 m
Height:	1,60 m	1.60 m	1.70 m	1.70 m
Weight:	2100 kg	2275 kg	2650 kg	3100 kg

Power supply: approx. 9 KW
 Punches per minute: up to max. 300;
 depending on the application
 Production capacity: number of punches * feed

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Standard perforating machine ST 90 D



Useful width (mm):	1600	1800	2000	2200	2700
Power supply (KW):	8	9	9		
Width (m):	2.3	3.0	3.3		
Depth (m):	2.5	2.5	2.5		
Height (m):	1.6	1.6	1.6		
Weight (kg):	2300	2700	3000		

Roller perforating machine ST 90 D-Roll



Useful width (mm):	1050	1600	2000	2200
Power supply (KW):	9	9	10	
Width (m):	2.3	2.8	3.3	
Depth (m):	2.5	2.5	2.5	
Height (m):	1.6	1.6	1.6	
Weight (kg):	1800	2300	3000	

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