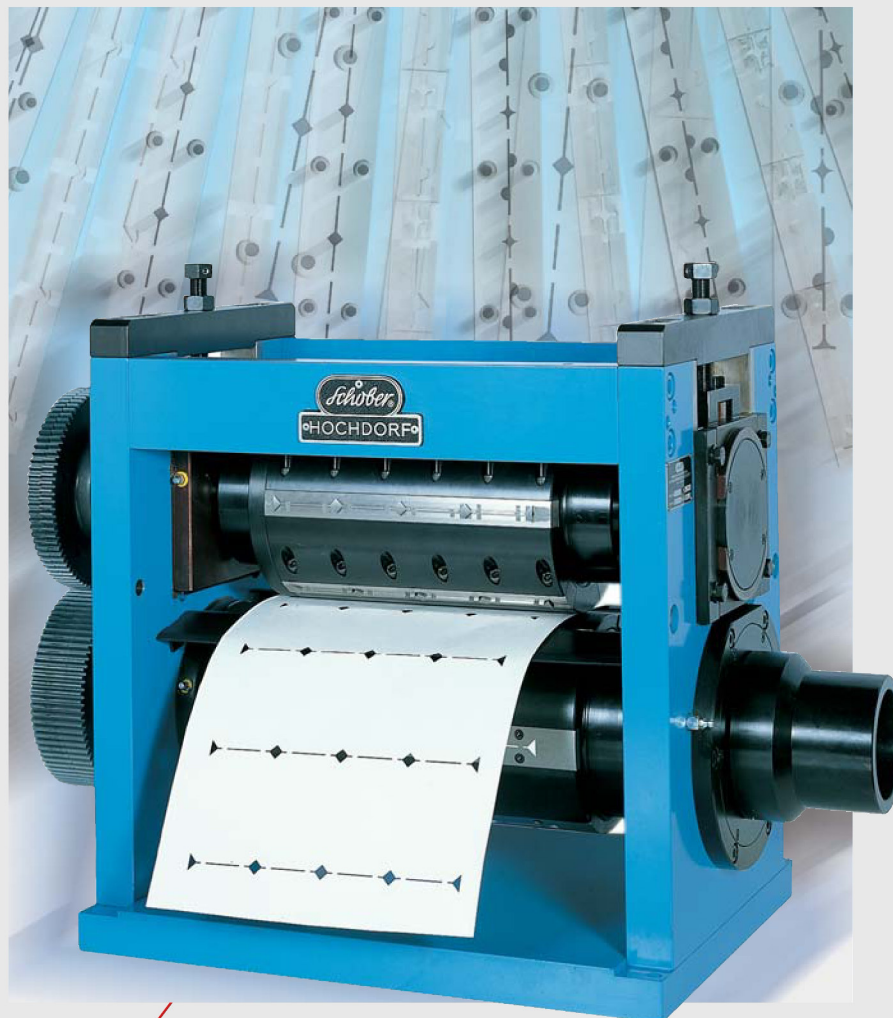


# SCHOBER ROTARY PUNCHING SYSTEMS – THE CONCEPT FOR PRECISION AND PERFORMANCE



PERFORATING  
CREASING  
CUTTING  
PUNCHING

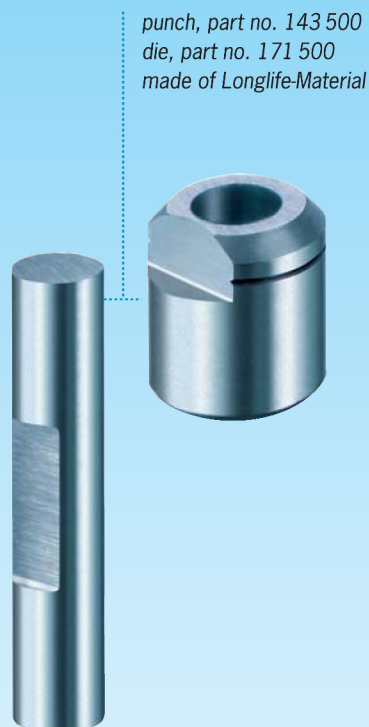
# NEW GENERATION LINE HOLE TOOLS WITH SECURITY NOTCH DBP

50 million revolutions with one set of punches and dies is the achievement of our proven "New Generation" tool

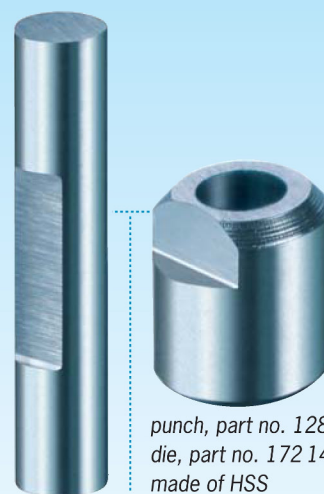
known for precision and performance and virtually dust free operation.



*punch, part no. 143 000  
die, part no. 171 000  
made of hard metal*



*punch, part no. 143 500  
die, part no. 171 500  
made of Longlife-Material*



*punch, part no. 128 600  
die, part no. 172 140  
made of HSS*



9820 sets of our "New Generation" tools are in use worldwide by satisfied customers. Take your fastest running machine and make a test. Our service team will assist you without any obligation.

120 million revolutions over a 20-month period with the initial supply of punches and dies (punches turned once) and the punching quality is still

satisfactory. The calculation shows that over a 7-month period with a two-shift operation approx. 70 machine downtime hours are saved. This represents savings of approx. EUR 10,000. After the punches were turned 180°, production could continue immediately with the same punch – and exceptional punching quality. From 20g/m<sup>2</sup> also coated and heavier paper, outstanding punching.

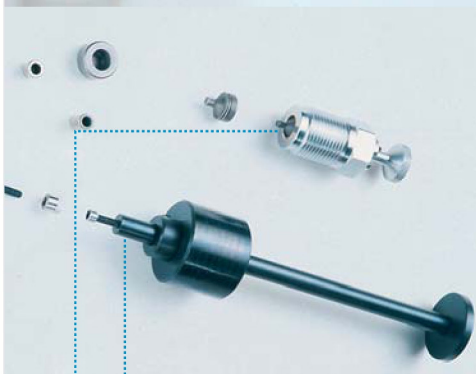


# ACCESSORIES

Spare part kit  
part no. 171 950



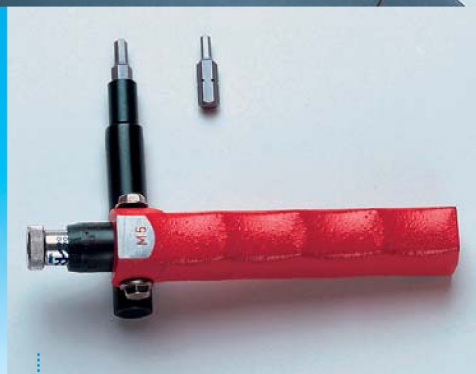
Punch setting gauge for  
"New Generation" tools.  
Custom sizes upon request.  
0.01 mm increments.  
22" circumference – part no. 143922  
24" circumference – part no. 143924



Die puller  
part no. 171 900  
part no. 1719 10



Hole drilling device  
part no. 143 511



Torque wrench  
part no. 143 900

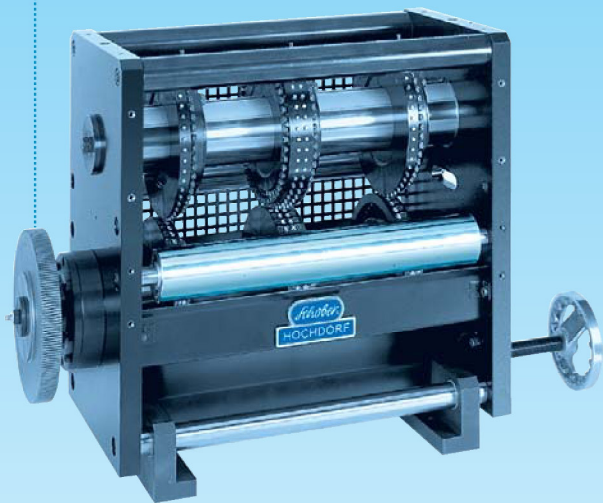


Web length gauge to check line hole  
patterns.

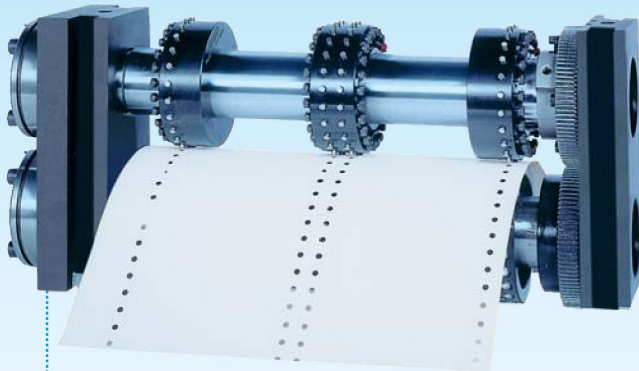
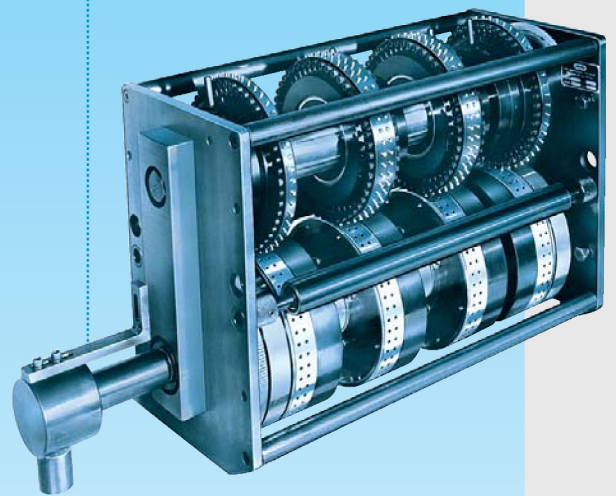
Maximum length 30", temperature  
resistant, gauge increments 0.1 mm  
part no. 143 960

# BUILT-IN AND DROP-IN MODULES WITH LINE HOLE TOOLS

Built-in module with side adjustment for transport holes with exchangeable punches and dies.



Waste removal through hollow die cylinder. Die holder in disk design.



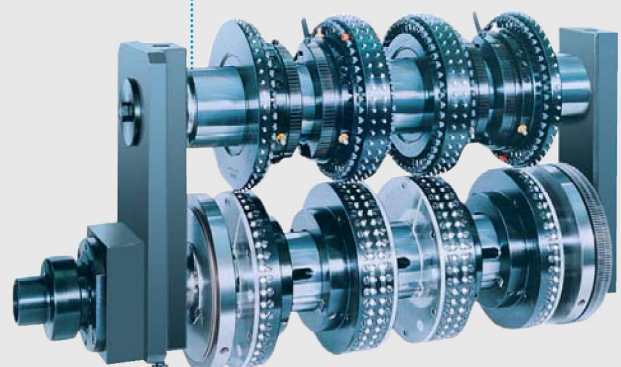
12" Line hole drop-in module for narrow web label printing machine.



Drop-in module

Modules available for working width 10", 16", 20" for the following label printing machines:

Applied Gear	Focus	Nilpeter
Arpeco	Gallus	Omet
Arsoma	Kdo	Propheteer
Chromas	Ko-Pack	Rotatek
Comco	Manhasset	Rotopress
Edale	Mark Andy	Webtron



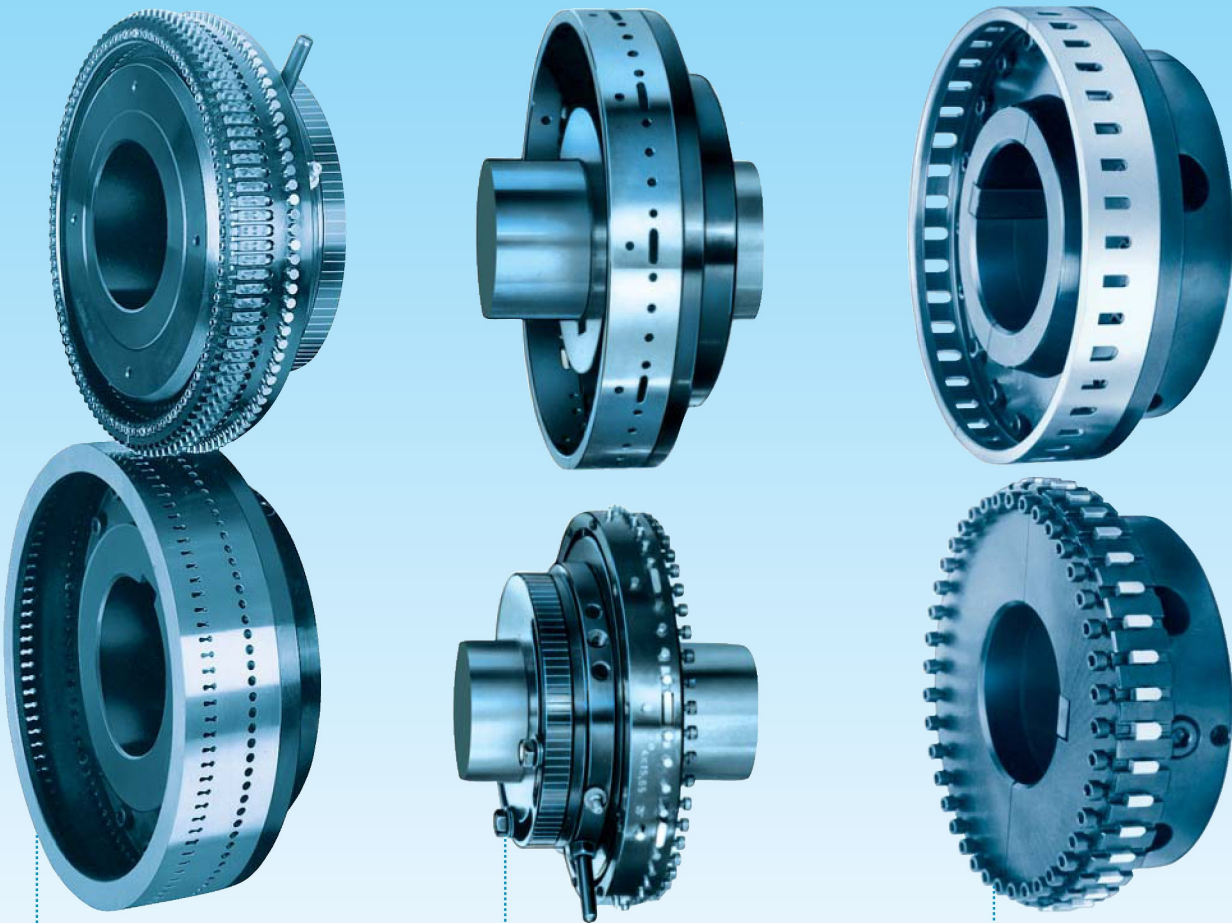


# SPECIAL TOOLS FOR BUILT-IN MODULES

Due to the enormous know-how gained over several decades, Schober is in a unique position to offer individual

components, i.e. special rotary punching tools for the installation in existing web printing and processing

systems to make templates, diagrams, credit card carrier forms as well as a variety of mailing forms.



Special tools for foil punching in the pharmaceutical industry.

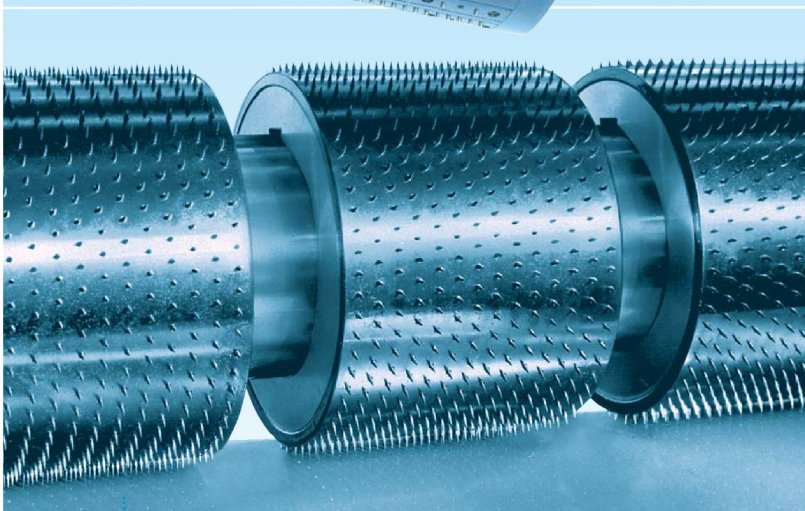
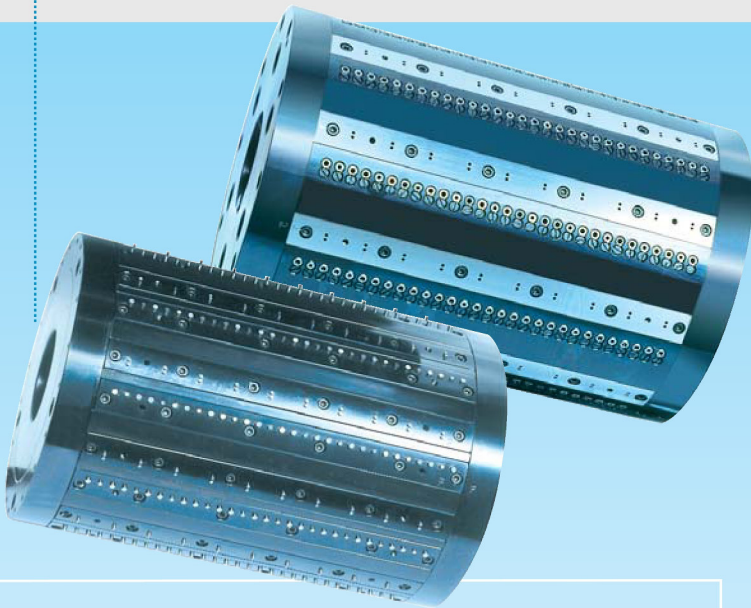
Special punching tools for unique transport hole punching of pressure sensitive film/foil plastic material for precision processing in high performance computer controlled cutting systems.

Rotary punching tools with oval punches, die rings in split-design.

# PUNCHING TECHNOLOGY

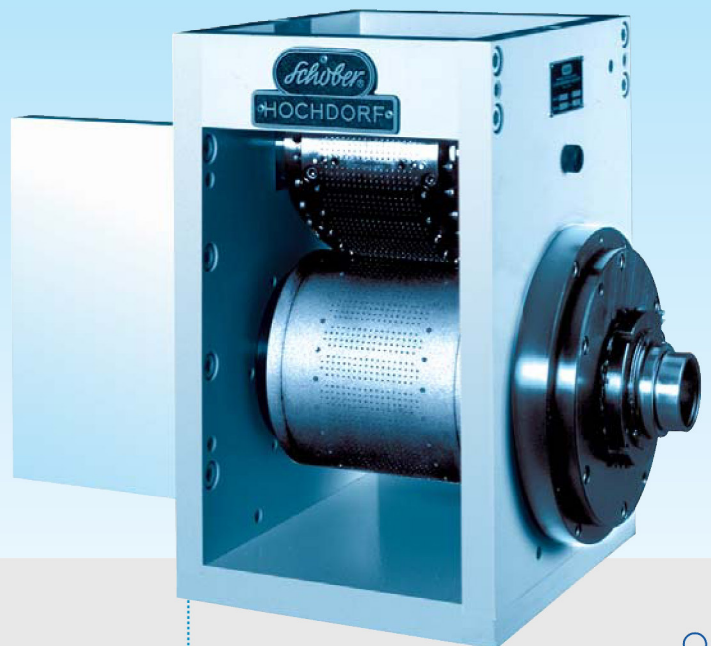
New developments in the punching technology make it possible to punch self-adhesive materials clean and free of burrs.

Cutting cylinders for metro tickets



Cylinder with moveable needle rings for hot and cold perforation. Depending on the specific requirements the anvil can be made of rubber or steel.

Punching module for dense pattern with exchangeable punches and dies.



Punching module for band-aid material with hollow die cylinder and exchangeable punches. Even in a dense punching pattern with a whole diameter of 0.9 mm the waste is effectively removed.



Punching cylinder with exchangeable punches and dies for tea tags.

Punching module with exchangeable punches and dies for the production of food labels made of plastics.

Exchangeable punch and die bars. Made of high quality tool steel, Long life material also available. Special coatings upon request.

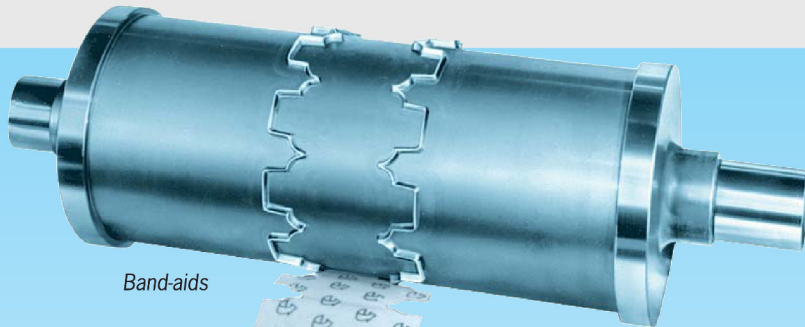


Rounded corners for airline tickets (ATB). Split tools for installation on existing carrier shafts.

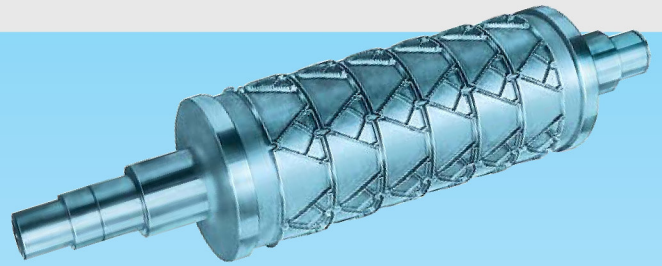
Punching module for parking tickets with exchangeable punch and die bars.

# ROTARY CUTTING AND PUNCHING TOOLS FOR THE PACKAGING AND PHARMACEUTICAL INDUSTRY

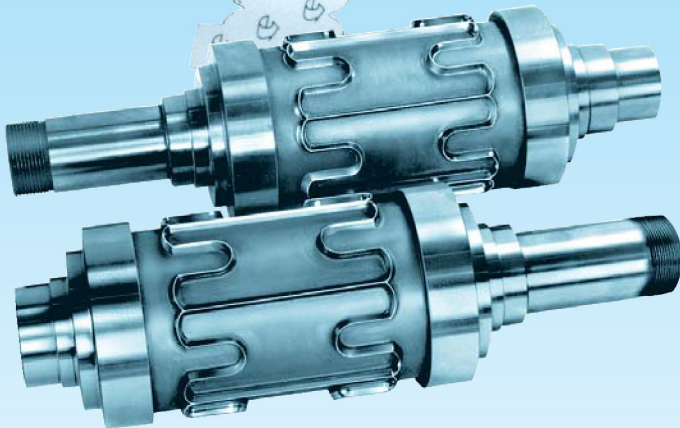
Schober cutting cylinders  
are used worldwide for  
a variety of applications:



Band-aids



Top label for  
coffee packaging



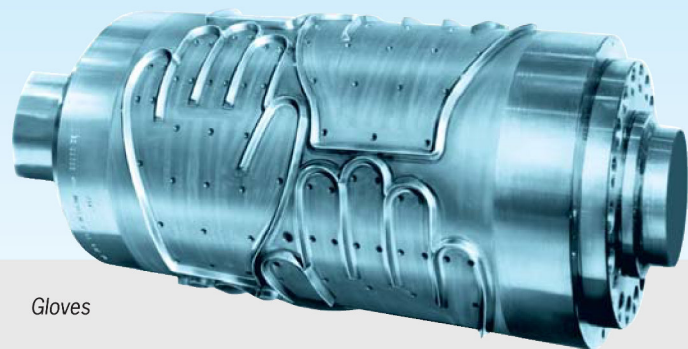
Band-aids



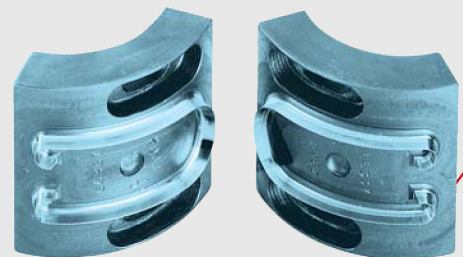
Meat trays



Round tea bags



Gloves



Shopping bag handles



Schober's developments and enhancements in the cutting and punching technology are based on the extensive experience in the print, packaging,

hygiene and medical markets. Each new requirement in the rotary process is based on different needs and approaches, which become increa-

singly more important with higher machine speeds.



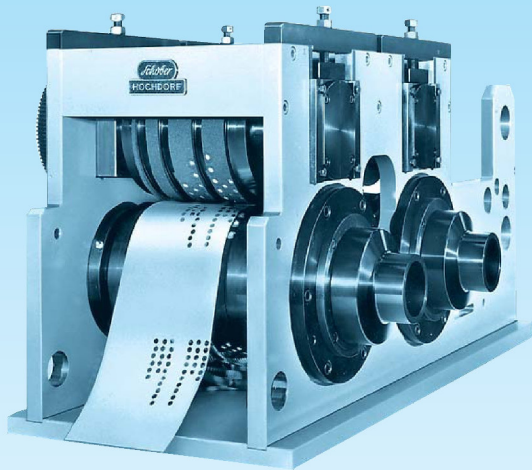
Chop stick packaging



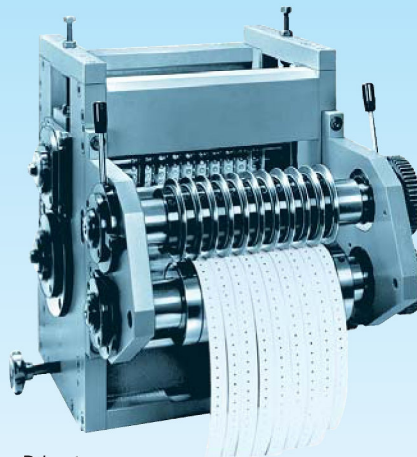
Drinking straw application



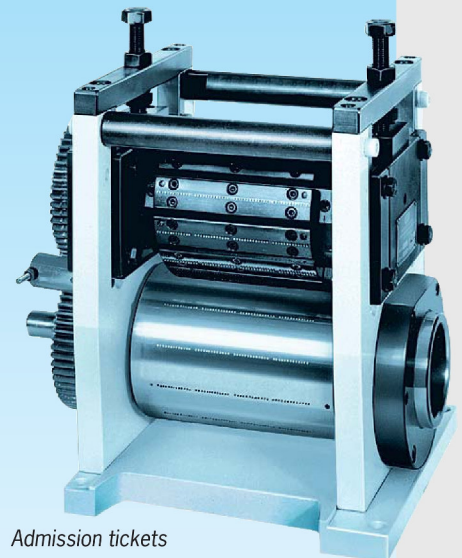
Needle perforating



Pill packaging



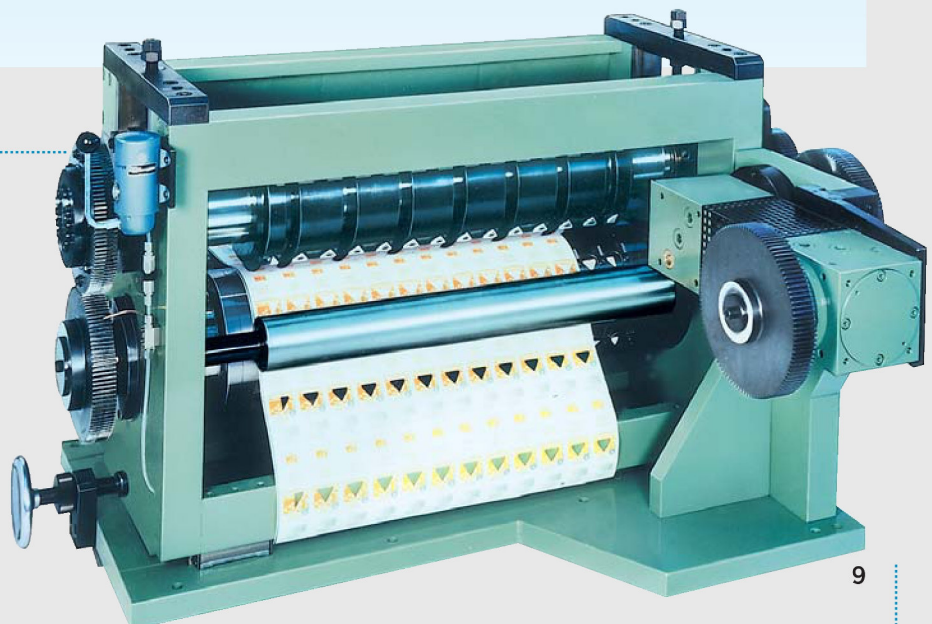
Price tags



Admission tickets

#### High performance punching module

Drive connection can be supplied upon customer request  
Waste removal through hollow die cylinder  
For the installation in new and existing printing machines  
For cartons, laminates, PE, PP, PVC foil, specialty paper, Tyvec  
For working width of 80 to 1500 mm  
Designed for speeds up to 600 m/min



# SPECIAL ROTARY PUNCHING AND PERFORATING TOOLS

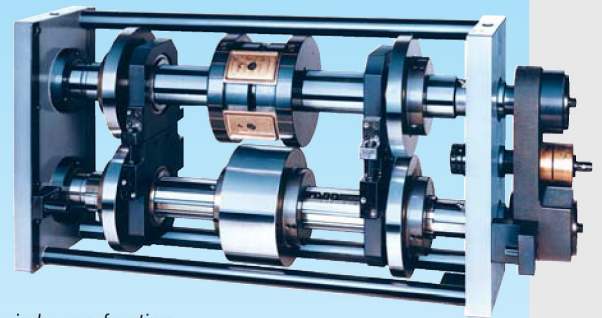
Off-set longitudinal perforation tool  
RS 2000  
Circumference: 12" – 16"  
Segment length: 4 1/6"



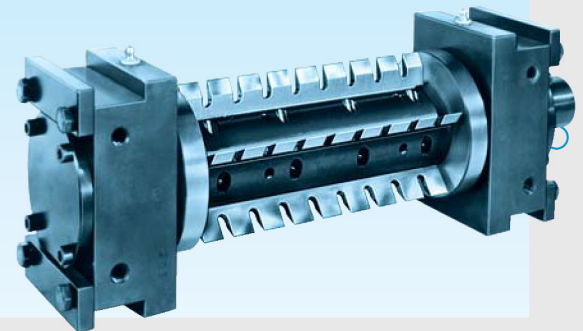
*Special perforation for opening feature in food packaging*



Cost savings increase  
applications worldwide.  
Benefit from our experience!



*Rotary cutting tool  
with exchangeable window perforating  
segments*



*Rotary perforating  
cylinder for  
cotton products*

The Schober RS 2000 tools can be used very economically for partial length perforation in paper webs. The perforation is not performed against the hardened anvil but with minimum wear in a scissor cut. The lower tool consists of two steel rings flanged together. The perforating segments can be individually adjusted

in web direction. The economically priced standard segments are available for immediate shipment. Perforation is made at maximum machine speed.

RS 2000 tools improve the perforation and increase the tear strength. The scissor cut application eliminates damage to the segments at the in-feed.

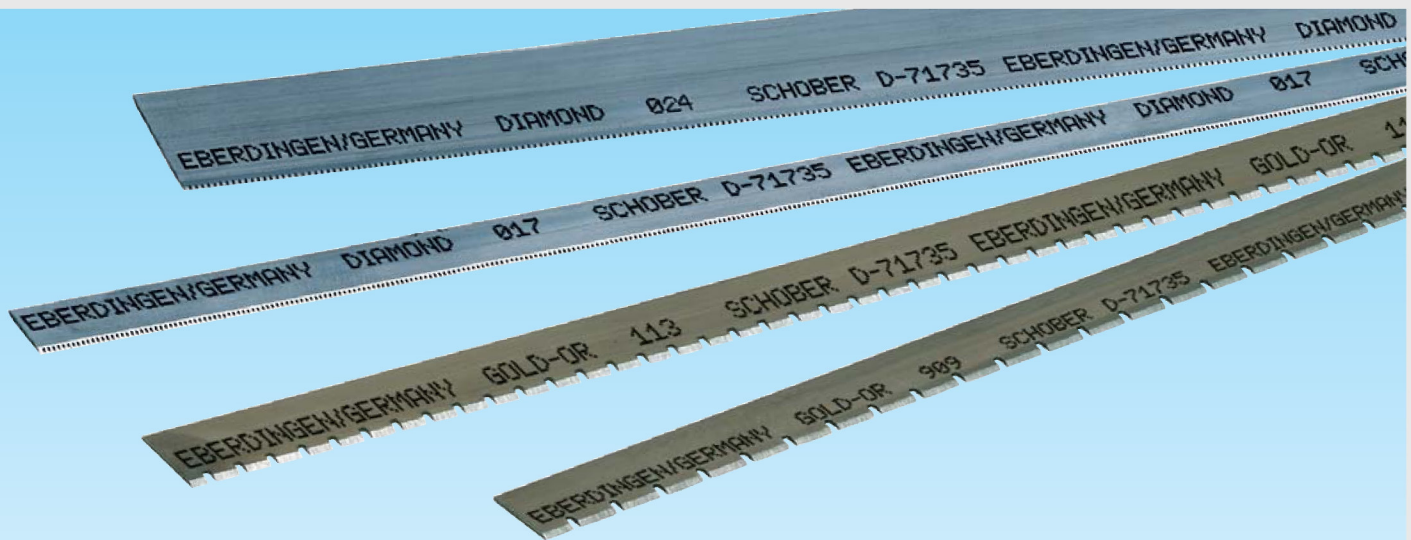


# CROSS PERFORATING BLADES AND ACCESSORIES

Perforating blades are available in proven steel qualities and hardness grades (Schober "gold-or" and "diamond"). Height: 10 – 24 mm.

Thickness: 0.7mm/1.05mm and 1.5mm, available in rings or by the meter, single and double sided facets, cut and tie per customer specifications.

Micro perforating blades. Standard and special micro 40, 50, 60 and 72 teeth/inch. Custom pitch upon request.



**A4 Cutter**  
to cut perforating and cutting blades, doctor blades, etc. to length, the rings are stored organized and protected in wooden compartments.

**Adjustment gauge**  
to check parallelism and alignment of perforating blades in Sisprint-locking bars. Increment: 0.01 mm  
part no. 830 950



**RPN – Sisprint pneumatic quick action locking bar.** Significant timesavings when changing blades, the noise-absorbing element reduces the cutting noise. Reduces machine down time, less waste during alignment. The trouble free installation eliminates possible mistakes when changing cutting/perforating blades. The new RPN-quick action-locking bar increases the lifetime of cross perforating blades.

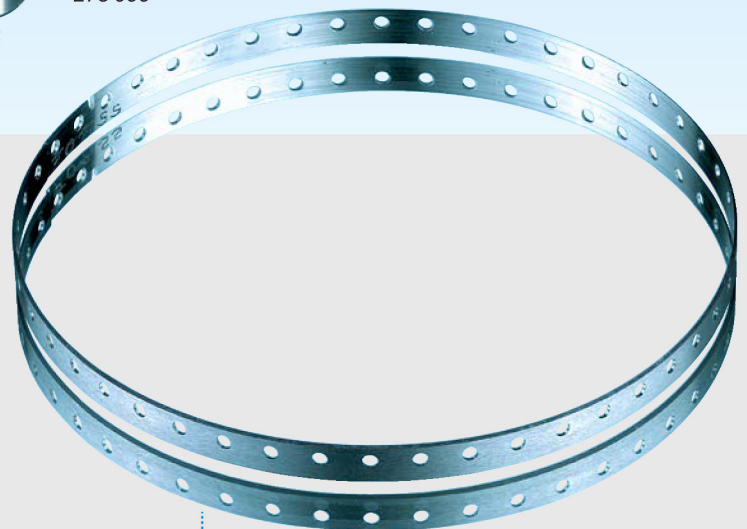
# CONSUMABLES FOR CUTTING AND PUNCHING TOOLS

Schober supplies quality products consistently. This ensures a high level of product reliability. Schober will also

consult and expertly advise you concerning the integration of tools and parts into existing equipment.



Punches and dies for business forms and data carriers.  
Die bands, dies and punches made of high-alloyed steel.  
"New Generation" tools made of hard metal for all types of business forms machines.



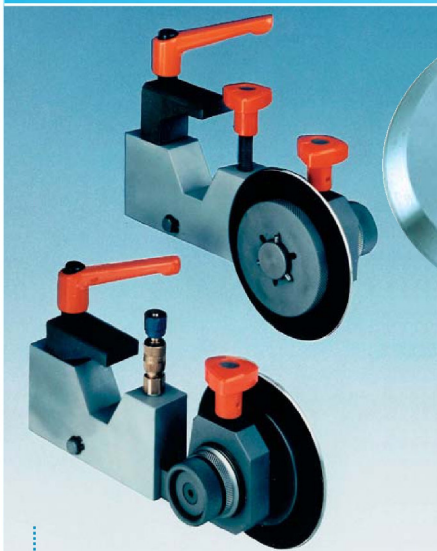
Die bands  
part no. 104 020



Precision ground knives made of specialty steel are not only world renowned for their excellent cutting quality but also for their outstanding lifetime.

Schober is ISO 9001 certified since 1995. Our customers benefit from the advantages of an internal R+D and are always presented with innovative

solutions. The available technical support and after sales service worldwide is also an invaluable benefit.



Circular knife holder KMH 2000 with quick clamping device. Quick installation and removal of circular knives without tools (also possible in the machine).

Cross adjustment of up to +/- 5mm possible

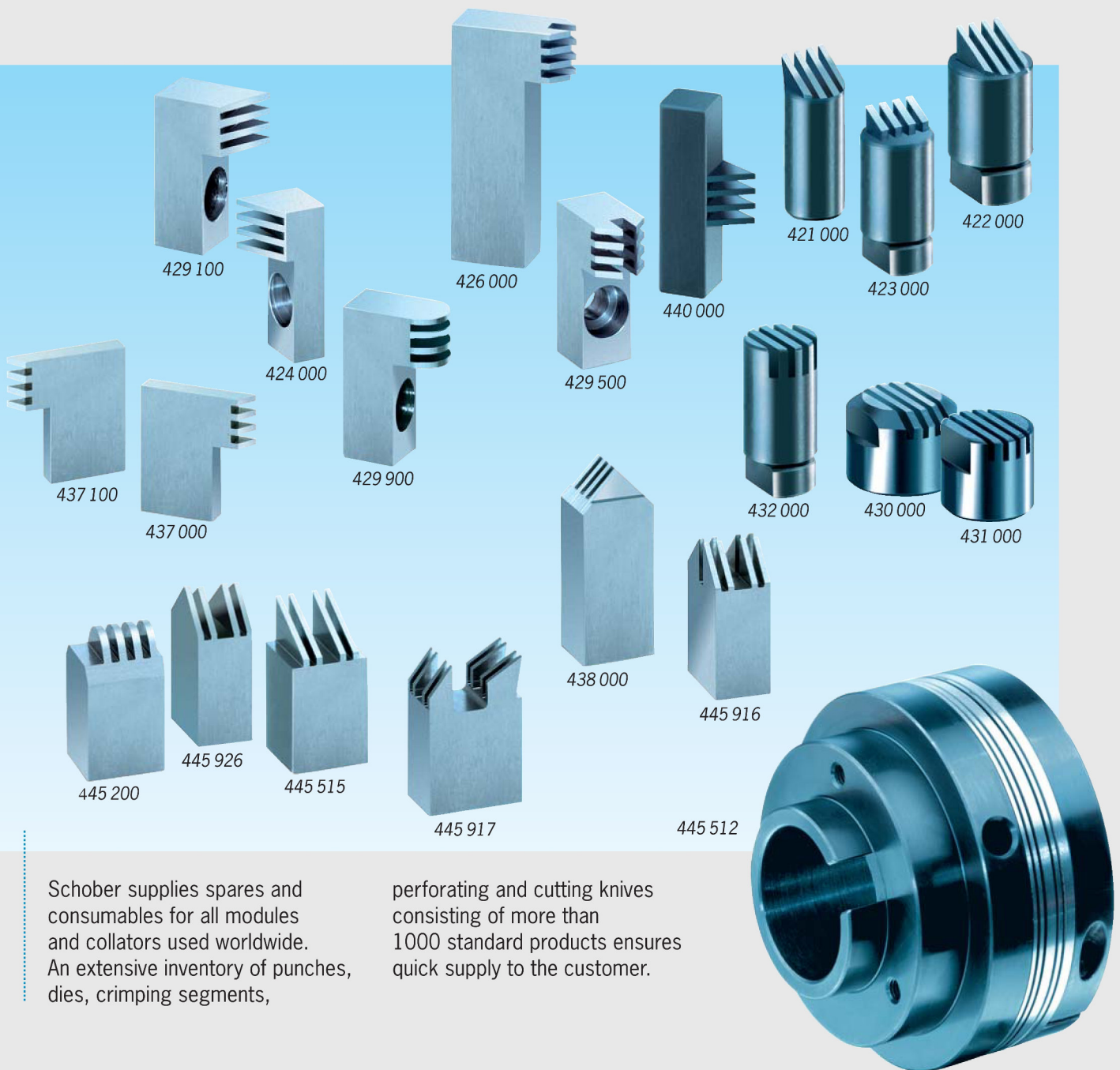
Engage and disengage without releasing the knife holder

Mechanically or pneumatically adjustable cutting pressure. Precise adjustment of cutting heights, especially suitable for scoring of labels. For shaft diameters 30 and 40 mm, other diameters upon request.

Circular knives for perforating and cutting also available in micro cut design creasing and scoring knives, hollow dished slitter knives made of alloyed steel or tungsten also available in tungsten carbide metal.

# ROTARY CRIMPING TOOLS AND CONSUMABLES

Crimp lock tools with die and punch segments for all machine types.



Schober supplies spares and consumables for all modules and collators used worldwide. An extensive inventory of punches, dies, crimping segments,

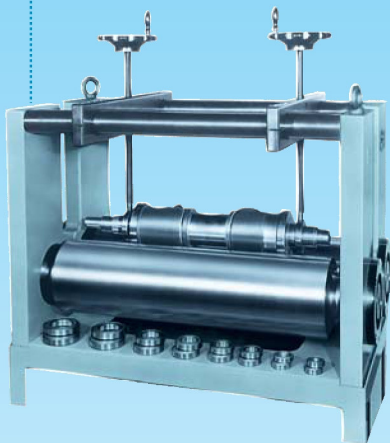
perforating and cutting knives consisting of more than 1000 standard products ensures quick supply to the customer.



# DO IT YOURSELF REGRINDING MACHINES AND STATIONS



Precision testing module for cutting cylinders with various cutting patterns with two hardened and precision ground anvil cylinders (Ø 190 x 700 mm, parallelism  $\pm 0.002$  mm).



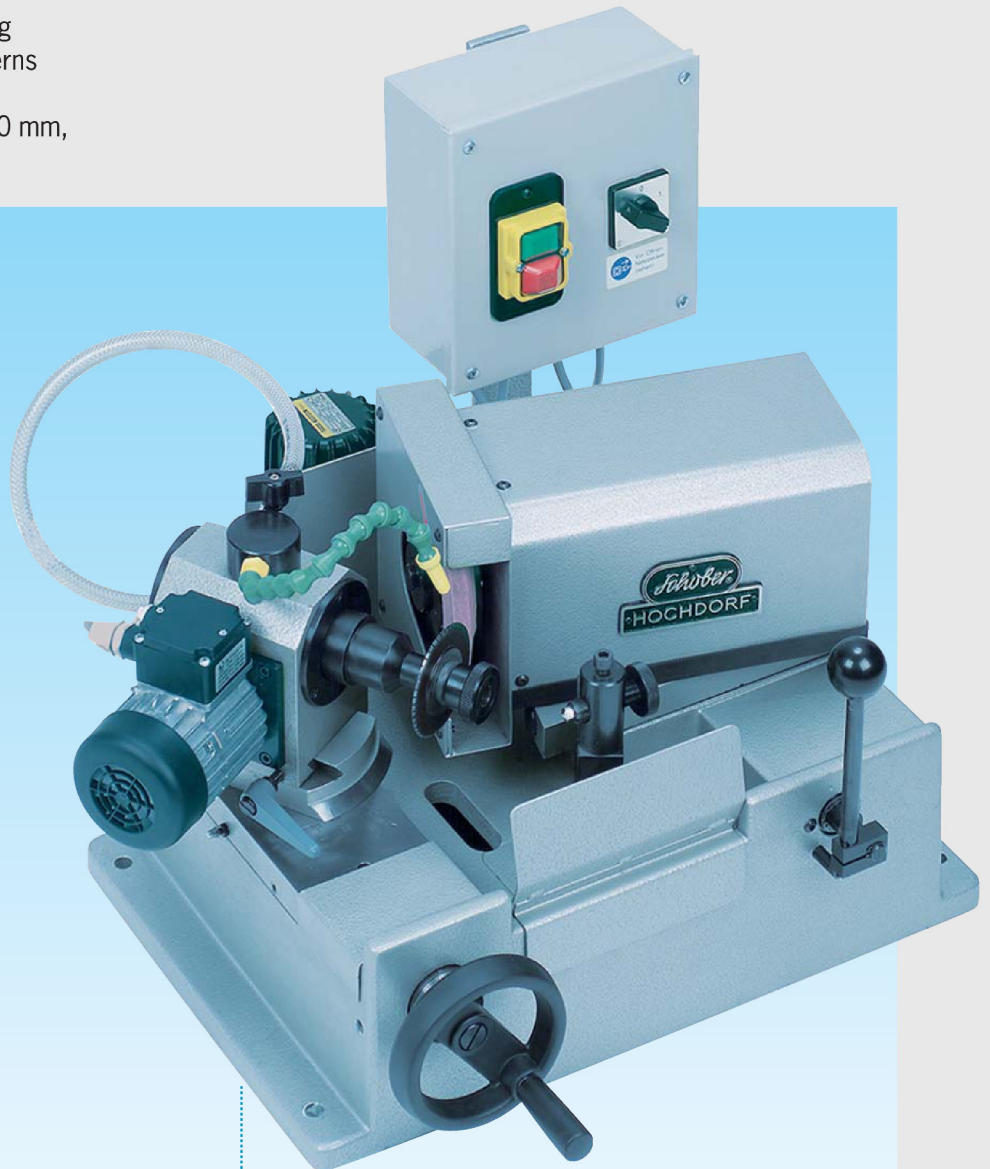
Regrind station to regrind and sharpen the knives. Precision-stereo-microscope with wide angle eye pieces, installed in a swivel mount camera system with monitor available as option.

max. width 700 mm

max. cylinder diameter Ø 200 mm

Wide area magnifier: 8 x zoom

electrical grinder 35,000 rpm,  
230 Volt



Circular knife grinder S5 to regrind your circular knives – on site.

knife Ø 40-180 mm

dished slitter knife Ø 40-120 mm

voltage: 400V/50/60Hz  
(optional 280V/50Hz)

part no. 850 500

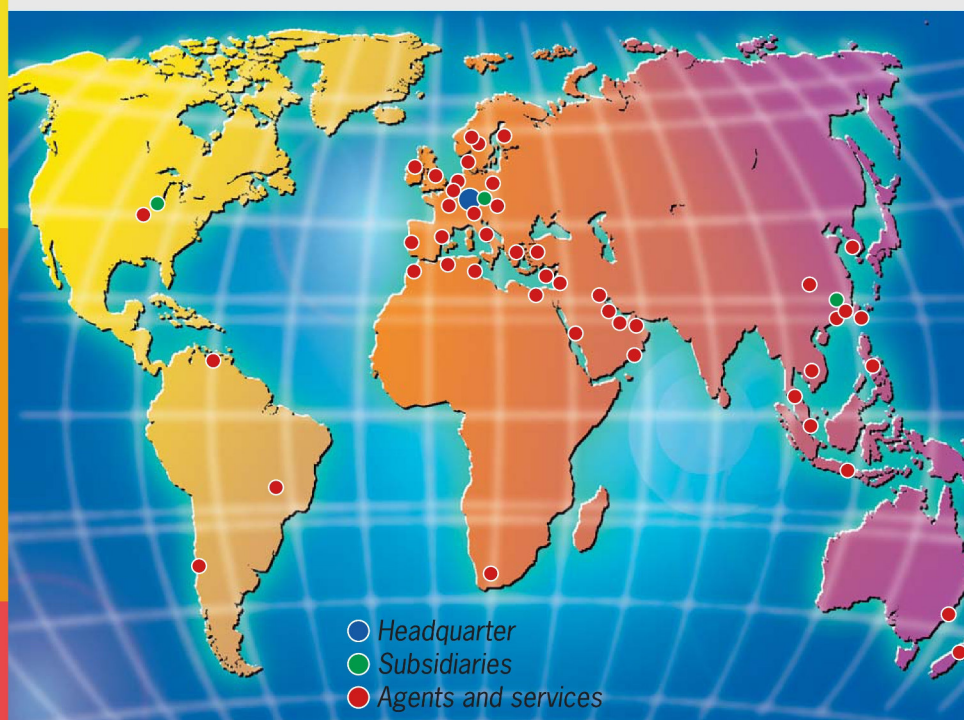
# THE BASIS OF A SUCCESSFUL PARTNERSHIP

Whether you are talking rotary tools and units for inline solutions or whether you are trying to improve production figures using a combination of materials, we can advise you worldwide.

Use our engineering expertise. Schober is certified more than once to DIN EN ISO 9001 standard, so quality and finished products are second to none. Our worldwide expert customer service is available to solve any enquiries from spare parts to major technical applications.

Schober can lead you into a strong competitive position with their latest technologies.

**Engineering**  
**Quality products**  
**Know-how transfer**  
**Reliability**  
**World-wide customer service**



## SCHOBER WORLDWIDE – GUARANTEED SERVICE

**TRUST SCHOBER  
TO DELIVER.**

Our representative in your area  
will be pleased to consult you.

**Schober USA, Inc.**

Tel: 513/489-7393 Fax: 513/489-7485

4690 Industry Drive Fairfield, Ohio 45014

email: [solutions@schoberusa.com](mailto:solutions@schoberusa.com)

[www.schoberusa.com](http://www.schoberusa.com)