



Passion for Precision



Your road to success

Confidence and sureness are the foundation of extraordinary solutions. That's why our partners know: You can trust in our activity, in the product quality as well as in our steadiness concerning delivery. Customers who work with us, do so because customer satisfaction ranks first. Whether in printing, automotive or the pharmaceutical industry, Spilker is home to die cutting, printing and embossing, always flexible and innovative.

Quality, competent service and short delivery times constitute the three pillars of our business philosophy. The consequent use of the latest technologies and processing methods has always had priority and renders our company one of the most innovative suppliers in its sector.

Out of a long tradition and more than fifty years of experience Spilker is a family-run concern which third generation already participates in the company affairs in a creative and innovative way. As a globally-active provider with a huge array of products Spilker is appreciated for its experience and competence by its customers.

Get in touch with us - our experts are always there for you! Together we will find the optimal solution for your company.

Yours sincerely



Andreas Spilker



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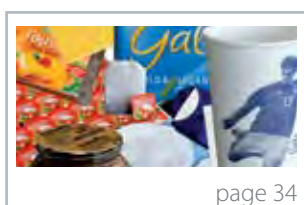
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Flexible Dies

Innovative run of flexible dies for each requirement

Spilker's flexible dies offer maximum performance in die cutting with absolute constant results – no matter if paper, foil or combined material.

From the practice of our customers, the intensive cooperation with leading material suppliers and more than 50 years of experience Spilker was able to develop flexible dies which fulfill the quality standards of tomorrow even today.



Features

- Deliverable in 0,3 mm up to 1,0 mm thickness (on request optional up to 1,5 mm)
- Cutting angle from 50° up to 120°
- Surface refinement by nickel coating
- Micro-perforation
- Optional laser hardening
- Up to 3 different cutting heights in one workstep
- Optional non-stick coating (food safe and FDA approved)
- Sizes up to 800 x 1080 mm in one piece

		Qualified for	Laser curing	Non-stick coating
SpeedCut	The universal flexible die for high-quality die-cutting of all standard applications	paper / foil	--	<input type="checkbox"/>
LaserCut	The execution with laser-hardened cutting blades for longevity and for through cutting	paper / foil	■	<input type="checkbox"/>
P	High-quality die-cutting of heavy paper and cardboard material	paper / cardboard	<input type="checkbox"/>	<input type="checkbox"/>
F	Precision and highest surface quality are combined with slim blades for the cutting of foil	all foils	<input type="checkbox"/>	<input type="checkbox"/>
I	Inline-die-cutting on sheet-fed-offset-machines	paper / foil / cardboard	<input type="checkbox"/>	<input type="checkbox"/>

■ in series □ optional



Your advantages

- First class quality for universal application when producing paper and foil material
- Maximum cutting quality by improved cutting geometry
- High durability by surface refinement
- Easy and quick online ordering through our Spilker ToolBar
- Short delivery times

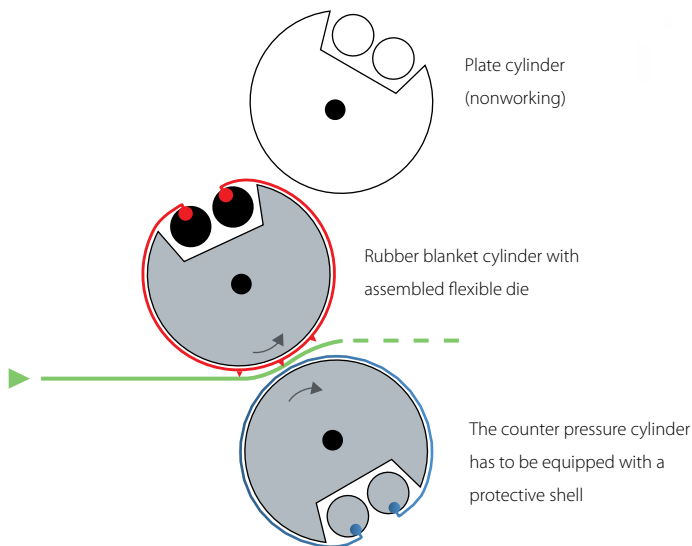
www.spilker.com/ToolBar

Offset Dies

Inline-Cutting on sheet-fed-offset-machines

Whether perforating, creasing, kiss cutting or through cutting of brochures, mailings, postcards, calendars as well as labels – with the help of offset dies Spilker optimises the capacity utilisation of your printing machine.

For the application of Inline-flexible dies the rubber blanket in the printing or varnishing unit is easily exchanged with the flexible die – therefore you are saving money by utilising your existing equipment and optimising your in-house workflow.



The manageable clamping with rails system from Spilker for a secure hold and an easy flexible die fitting.

Your advantages

- No assembly effort of single flexible die-strips
- Flexible dies up to 3B-format deliverable
- Maximum fitting accuracy even with several labels, small outlines or small gaps between the cutting lines
- Secure hold and easy fitting by clamping with rails
- Printing and inline-cutting in one work step
- Exact reproducibility for follow-up orders
- Heaviest material cuttable
- Short delivery times

Magnetic Cylinders

Perfect adhesive force

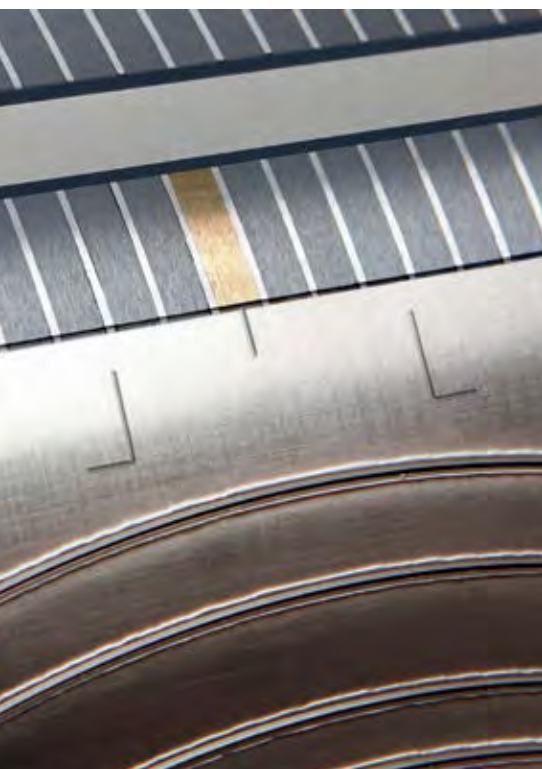
Thanks to an all-over supervision of all production steps Spilker guarantees the adherence of strict quality standards. The results are magnetic cylinders with the greatest possible dimensional accuracy.

Optional integrable techniques for vacuum and compressed air as well as fit bores for the positioning of flexible dies offer many possibilities which are exceeding daily standard applications.



Large-size magnetic cylinders

The modern machinery enables the production of cylinders up to 750 mm in diameter and 3.000 mm in length.



Thanks to a mark on the cylinder the exact central positioning is easily made.

Your advantages

- Fine pole pitch for ideal adhesive force
- Positioning line and /or scaling for the adjustment of flexible dies
- For special applications extremely strong adhesive force by the use of neodymium magnets
- With dynamic and static fine balance
- Hardened centring for perfect concentricity
- Positioning system with fit drill and dowel pin
- Repairable
- Short delivery times

Flat Bases

Plane adhesive force - the alternative to steel rule dies

Flat bases can be used in the same way as conventional flat bed tools. The measurements and specifications can be exactly adjusted to your machine's requirements.

The optimal magnetic power is the fundamental requirement for a successful application

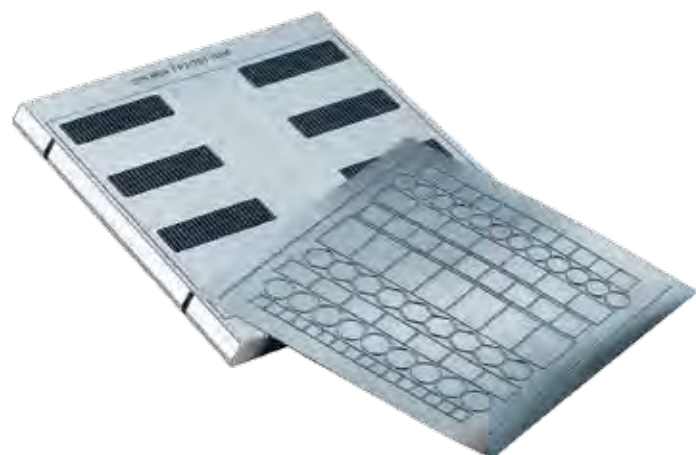
The size, quantity and positions of the magnets on the flat base must be designed to reach a maximum adhesive force in order to avoid the movement of the flexible dies during the cutting process. At the same time the adhesion of the counter pressure base is excluded. The magnetic bases are manufactured out of a special and inherently stable aluminium alloy. For special applications, we can certainly use alternative materials such as stainless steel.



Together with the flexible die (H2) the flat magnetic base reaches the usual cutting height (H1).

Your advantages

- Almost no limits regarding the choice of outlines including filigree designs
- No "gaps" between the ends of cutting blades as we know them from flat bed dies
- Easy removal of the waste grid and accurate outlines



Rotary Cutters

Spilker rotary cutters – the highest standards of precision and durability

Rotary cutters can be produced with almost any cutting height and cutting profile. Thus they are laid out for particularly strong materials such as PVC film and cardboard. The die cutting tools are individually manufactured by modern machines and can be delivered in different quality classifications.

Execution Classic

The high-quality special tool at a reasonable price, made of special tempering steel. They are especially suitable for medium quantities and for kiss cutting of paper material.

Execution Ultra

Our first-class tool is hardened up to 60 HRC. For kiss- and through cutting of large quantities of all paper, foil, cardboard and combined materials.

Execution Ultra-Plus

Our premium tool is made of special steel and hardened up to 62 HRC. For kiss- and through cutting of large quantities for all paper, foil, cardboard and combined materials especially for highly abrasive materials.

Options

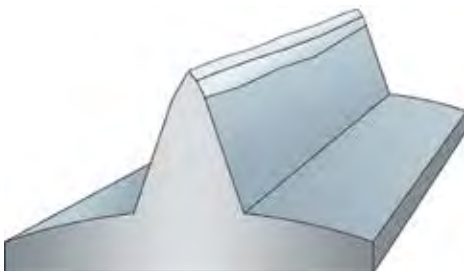
Optionally we can deliver your rotary cutter with the following coatings:

- Non-stick coating (food safe)
- Hard coating (e.g. TiN, TiAlN)
- Hard chrome coating

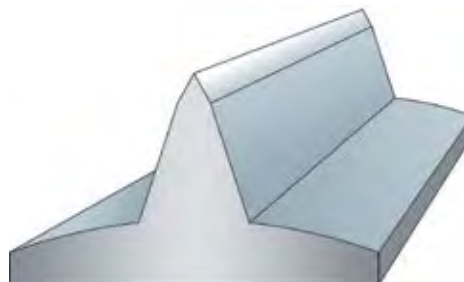
Your advantages

- Cutting profile is always adapted to the material to be cut
- Different cutting heights in one tool available
- All types of perforation including micro-perforation possible
- "Slit over perf" possible
- Possibility to re-sharpen the tool
- Repairable
- Short delivery times





Conventional manual sharpening



Mechanical Spilker sharpening

Mechanical sharpening of rotary cutters guarantees an absolute permanent and reproducible cutting profile in highest quality. The optimised cutting geometry is responsible for the clean and invariable results in die cutting.



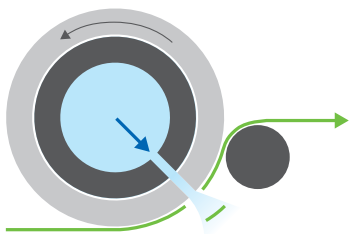
SONIC

Effective disposal with compressed air and vacuum technology on the highest level

Sonic is a rotary cutter system developed by Spilker which allows you to produce die cuts with almost any form and position – safely and comfortably. Depending on design and production requirements there are several technologies available. Thereby either compressed air or a combination of vacuum and compressed air will be used to secure a continuous cutting process.

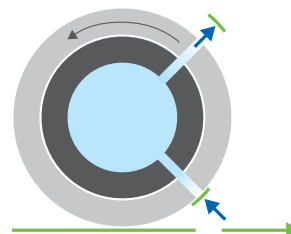
SONIC P

Inside the SONIC P there are air channels which lead the compressed air exactly to the intended position of the cutting line. At the right moment the cuttings are blown out of the cutting line and the web into a suitable extraction funnel. This blow off position is continuously adjustable. Depending on the requirement there are different air control systems available – thereby the SONIC F-system is unique in its effectivity.

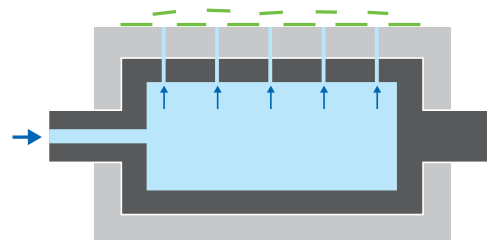


SONIC VP

In addition to the aforementioned blow-off function, the SONIC VP is equipped with an exhaust or vacuum technique respectively. This vacuum function guarantees that the cuttings remain in the cylinder during the cutting process and thus can be safely removed from the web. Afterwards a special valve mechanism developed by Spilker makes sure that a change-over from vacuum to compressed air takes place at a defined cylinder position so that a process-sure cutting is guaranteed.



The Sonic F-system permits with its large-volume air accumulator a constant air outlet pressure even at filigree expulsion holes, therefore a smooth ejection of waste material is guaranteed. On the entire cylinder the vent holes can be positioned at any place.





Coatings

Optionally we can deliver your SONIC in the following coatings:

- Non-stick coating (food safe)
- Hard coating (e.g. TiN, TiAlN)
- Hard chrome coating

Accessories

- Extraction funnel
- Industrial vacuum cleaner
- Vacuum pump
- Pressure reducer

Your advantages

- Mechanical Spilker sharpening (see rotary cutters)
- Accurate blow-off even of smallest cuttings
- Inside air channels combine compressed air and vacuum technique
- High-tech tool for complex technical requirements
- Suitable for labels and special punched parts
- Possibility to get the Sonic-function in conjunction with magnetic cylinders

Our engineers like to advise you and choose the optimal technology for your application. In the process we consider your production requirements and find an individual solution.

By request we will send a service technician to you to install the SONIC with all necessary accessories.

MEP (Mechanical Ejector Pins)

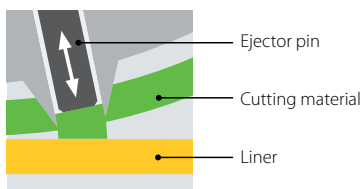
Process demanding materials reliably

Mechanical ejector pins press the material out of the tool. The cutting outlines do not get choked and the cutting lines are protected. Each individual pin is ground to the exact height and provided with a chamfer so that the material is not damaged.



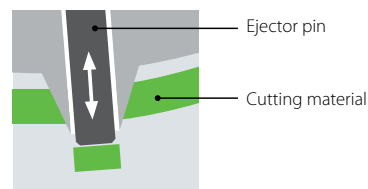
Kiss cutting properly

The ejector pins press the material on the liner.



Cutting through properly

With the Spilker MEP tools even the smallest punches till Ø 1mm can be reliably cut.



The ejector pins are mechanically ground to exactly the same height and provided with a chamfer.

Your advantages

- Wide range of applications for labels and punched parts
- Suitable for particularly thick and consistent materials
- The spring deflection of the ejector pins is perfectly adjusted to the material to be cut
- Even for small cylinder sizes
- 100% mechanically sharpened cutting edges

Our technicians are pleased to give you advice and will find individual solutions for your application.

Variabase

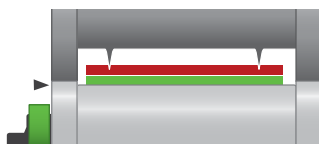
The fine adjustment for durable perfect cutting results

The Variabase is a height-adjustable counter pressure cylinder for first class cutting results. The compact counter pressure cylinder Variabase allows a reliable height adjustment for the optimisation of the cutting depth. With the aid of only one handwheel the required penetration depth can be easily and comfortably regulated. It is not necessary to correct the contact pressure any more.

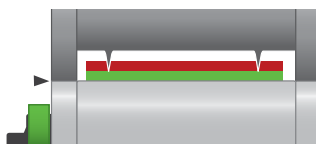
Solid construction

In most cutting units the Variabase can be exchanged with the existent counter pressure cylinder. Thanks to the solid construction, consistent cutting impressions are also obtained in case of extremely dynamic exposure (e. g. variation between cuts around and across the web).

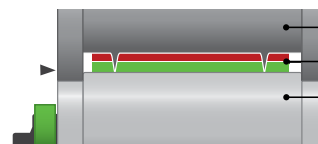
A clearly readable scaling facilitates a continuous fine adjustment of up to 0.001 mm. The standard adjustable range is ± 0.03 mm whereupon individual adjustable ranges are available on request.



High position



Neutral position



Deep position

Cutting tool
Material to be cut
Variabase



The position of the bearers does not change during the fine adjustment. Therefore it is not necessary to correct the contact pressure.

Your advantages

- Compensation of different thicknesses of support material
- No readjustment of contact pressure necessary
- Longer life-time of your cutting tools
- Specific adjustment of the cutting impression on the support material
- Possibility to cut the material from the backside
- Suitable for magnetic cylinders with flexible dies as well as rotary cutters

Cross Cutters

Spilker cross cutters – extremely variable and easy to handle

The blades of the cross cutter can be positioned arbitrarily with a minimum distance of 19 mm between them depending on the diameter of the cylinder.

Therefore it is possible to choose regular and irregular divisions. According to the requirement Spilker fits in only the number of blades that are necessary for the production. All types of perforation and cutting blades can be exchanged individually in each milled groove.



Our special clamping system allows a convenient exchange of the blades:

The fastening screws can easily be loosened from the top. The blade gets released without jamming and so the screws can be quickly tightened up again.

Your advantages

- Quick change of blades
- Ground cylinder base for the perfect concentric run-out
- Possibility to get perforation type and cutting knife in every execution
- Short delivery times

BOXit

BOXit is a high precision rotary tool for cutting and creasing

Hardened guide rings and preadjusted pairs of gears guarantee that the synchronised tools work in axial and radial direction which results in exact fitting and short set-up times.

The cutting and creasing lines are positioned on the top rotary cutter, the bottom cylinder serves as a counter pressure cylinder and is fitted with the negative creasing lines which are required for the folding. By means of the synchronous rotations only one operation is necessary for the exact cutting of the outlines and creasing of the folding lines. Thereby different parts can be cut out in any form and size. Of course it is possible to install a creasing tool on its own – then the cutting occurs with a separate cutting cylinder.

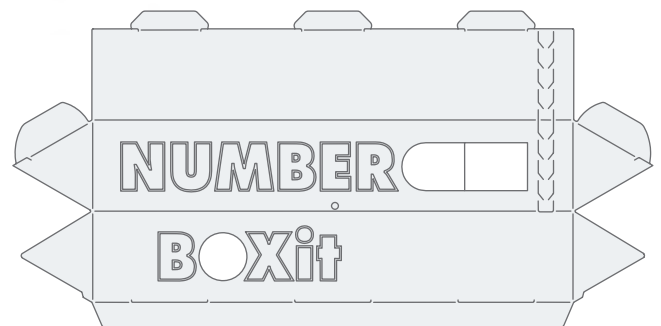


Creasing, grooving and cutting in one pair of tools

Perfect for the application in only one cutting station.

Pair of creasing and grooving tools

Possibility for a combined application in two cutting stations with a separate cutting tool.



Precise cutting, grooving, creasing and disposal of windowcuts in one production step.



The high-precision ground gears are synchronised to eliminate any play with the gears. The synchronising enables short set-up times.

Your advantages

- Considerably higher productivity compared to flat bed die cutting
- Hardened and ground gears
- In advance embossing pattern
- Repairable
- Short delivery times

Printing Cylinders

For excellent printing results

Printing cylinders for printing plates are mainly used in machines for flexographic, offset and letterpress printing. According to the machine's requirements they are made of special aluminium or steel alloys.

Spilker produces printing cylinders for all types of machines

In close cooperation with manufacturers of printing machines, Spilker often delivers the standard equipment for new machines. The production on highly-precise CNC-machines guarantees concentricities of $\pm 0,005$ mm. Gears (hardened and ground quality), shapes as well as spacers and register rings - certainly also made by Spilker - are decisive factors for the printing quality.



Options

- Hard anodized layer
- Hardened and ground gears
- Extra light construction



Perfect printing results due to hardened and ground gears.

Your advantages

- Optional hard anodized layer for increased protection against wear
- Optimised weight by means of tube material with inserted faces
- Optional hardened and ground gears
- Short delivery times

Aluminium Sleeves

Aluminium printing cylinders for sleeve technology

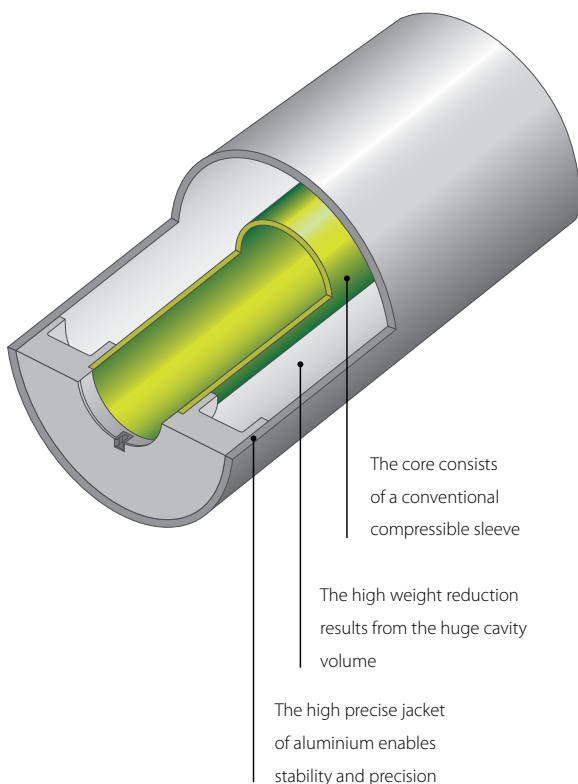
Due to its lightweight construction Aluminium Sleeves are a perfect alternative to conventional plastic sleeves.

The sleeve technology which has already been proven and tested for several years, has been developed to a top product by the use of aluminium instead of plastic. Weight, user-friendly assembly and most of all precision are the most important terms concerning our consequent development. Enjoy the fast and easy handling, better sticking of the tape and less waste during the mounting of the plates.

The original sleeve technology remains unvaried. The additional advantages are obvious: increased reliability and better concentricity by means of a hard and precise surface.



Variation of Aluminium Sleeves:
rubber blanket
aluminium surface
hard anodized finish



The core consists of a conventional compressible sleeve

The high weight reduction results from the huge cavity volume

The high precise jacket of aluminium enables stability and precision

Your advantages

- Perfect concentricity
- Constant parallelism
- Increased dimensional accuracy
- Reduction of weight
- Optional hard anodized layer for increased protection against wear
- Less waste during the mounting of the plates
- Improved sticking of the tape on the aluminium surface

Counter Pressure Cylinders and Support Shafts

Counter pressure cylinders of highest precision and surface quality offer a perfect result in cutting

By request and application Spilker produces through-hardened as well as surface-hardened counter pressure cylinders and support shafts up to a hardness of 64 HRC.



Case-hardened (surface layer)

A hardening depth up to 2 mm for cylinders with a high radial compression load

Inductive-hardened (surface layer)

Hardening depth up to 5 mm for high volume cylinders

Vacuum-hardened (through-hardened)

Completely through-hardened cylinder made of premium tool-steel

Options

- Hard chrome coating for best surface quality (finish) and corrosion protection
- Plus or minus cylinders balance differences in the thickness of the support material



Cylinders and fits get ground with an absolute precision on our modern CNC-grinding machines.

Your advantages

- Fine ground surfaces
- Optimal hardening processes
- Short delivery times

Rubber Sleeves / AirBoy / Air Cylinders

The standard for label printing

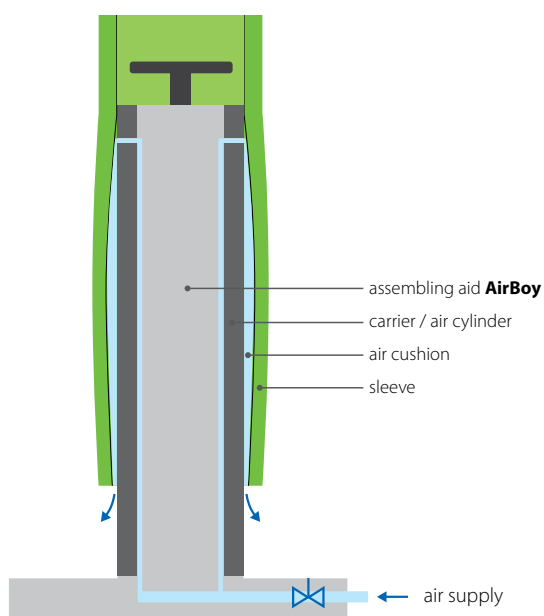
Rubber sleeves have been successfully used for many years for label printing and have been proven of value for the established printing processes.

Full surface and endless printing

Sleeves with a special rubber coating are used when full surface inking, coating and laminating for label and film material are necessary.

The standard sleeves are available from stock for the gear sizes Z88 and Z96 1/8" c.p. The sleeves can be positioned in any width on the carrier cylinder.

You will receive the assembling aid **AirBoy** as well as the required **Air Cylinders** at Spilker all from one source.



The sleeves will be brought via air cushion to the required place on the carrier sleeve and are fixed independently as soon as the air supply is interrupted.

Permanent available standard sizes at Spilker More sizes by request

Ø air cylinder	outer Ø sleeve	gear teeth 1/8" c.p.	sleeve width
70.14 mm	88.94 mm	88	200-1000 mm
76.51 mm	97.02 mm	96	200-1000 mm

Your advantages

- Easy uptake mounting and positioning
- Variable working width
- Standard sizes are always available
- Comprehensive consultation concerning a machine conversion to sleeve technology
- All components are delivered out of one hand
- Short delivery times

Hot Stamping Cylinders

Spilker hot stamping cylinders point the way for high quality hot foil stamping for many years

One important requirement for a neat stamping of foils without burr is a high engraving depth. This requirement is only fulfilled by the application of brass cylinders. Therefore it is possible to realise even the smallest gaps and filigree texts.

Modern advanced technologies as well as the experience of more than five decades guarantee optimal stamping results. Filigree stamping motives with a maximum of register accuracy are developed in consideration of the particular stamping temperature.



The cylindrically ground, polished and hard chrome plated surfaces increase the durability of the tools and lead to constant results.

Furthermore Spilker offers fast and uncomplicated possibilities of reparation in case of damage and abrasive wear.



Of particular importance for the filigree stamping elements is the constant and exact tempering of the tools. According to the requirements and intended use Spilker offers oil as well as electric heated tools.

Your advantages

- Surfaces precisely ground and polished
- Repairable in case of damage or wear
- Shorter setup time through optional axle system
- Optional hard anodized coating
- Short delivery times

Embossing Cylinders

Embossing the crowning achievement for perceptibly perfected labels

The high art of three-dimensional modeling gives each label and each package an attractive and distinctive appearance.

Accomplished packaging design with three-dimensional embossing

Already as blind embossing in paper or metallized composite materials, embossing is exceptionally attractive.

The complete positive impact becomes apparent particularly in interaction with hot foil stamping and decorative printing processes.

Modern 3D construction software together with the latest CNC-engraving techniques turns rotary embossing into a secure and repeatable production process.

Traditionally, Spilker has followed each development step in embossing. We now can rely on our years of experience in this field. Please let us know your requirements, we will be pleased to find an attractive solution together with you.



The cylinder pairs in positive / negative execution offer a maximum of constant and secure synchronous running.

Your advantages

- Shortest setup times
- Application in only one cutting station possible
- Hardened and ground gears
- Embossing sample free of charge
- Repairable
- Short delivery times

Machine Engineering

see also separate brochure

With the various S-CON machine series Spilker always offers a suitable solution

Whether for simple or complex application scenarios in the field of rotary cutting and converting, for standardised or individual processes, for compact space requirements or the integration in complex production lines, our experienced engineers will be pleased to assist you in selecting.

The combination of in-house departments for development, production, automation and service from one single source makes Spilker a unique and thus ideal partner for demanding solutions.

Production. Design. Software. Service.

If you invest in a new machine you need a partner at your side who understands your specific needs and requirements and can also implement them competently. In order to provide this security, we also bring in our comprehensive experience and the resulting know-how successfully from a single source when mechanical engineering is concerned.

As for the production of our rotary tools we also rely on our versatile and modern machinery for the manufacture of all components for our machine projects. Together with our development department the custom-made machine concepts which we elaborate with you during the project planning can be flexibly designed and efficiently implemented.



However, the possibilities of individualization go beyond concept and design. Increasing demands regarding flexibility and user-friendliness for the machine operation must be satisfied.


Our team of programmers is ready to respond to the needs which are particularly important for your company. If you are interested in the varied production opportunities, with print mark control, cam disc automats or intermittent processing we offer all applications of modern servo technology.

All necessary steps for a machine project are made at Spilker: concept development, planning, design, production, assembly and automation.

Special machines for very individual requirements

Whether a simple friction clutch, a sensitive and intelligent sensor technology or a high-capacity servo motor – we will always find the optimum components and technologies for the safe implementation of your production process.

Benefit from our experience in developing rotary processing solutions. Please feel free to contact us without any obligation.

 www.spilker.com

Cutting Units

The multifunctional rotary cutting unit

With the cutting unit Spilker offers a robust and extremely precise working rotary cutting system which suits to a variety of operational uses and can be integrated in the particular production workflow.

Throughout different sectors Spilker cutting units are used as a supplement of rotary machines. Special solutions which deviate from the standard are planned and implemented in the in-house construction and development department. The adaptation to the drive design and the software integration in the existing machinery are part of our scope of service.

Optional extensions

- Aluminium, steel or stainless steel construction
- Equipped with Spilker PowerCheck
- Equipped with Spilker PowerBridge
- Manual execution equipped with feed and display table



Equipped with the Spilker Moving-Bridge the tool change is even more comfortable.

Your advantages

- Retrofit through modular construction
- Individually adjustable
- Flexible to use
- Cutting unit and tool from one source
- Short delivery times

Cutting Units Male / Female

Long Runner – designed for an extreme cutting performance

The Spilker male-female cutting unit is an extremely stable steel frame construction with a fixed pair of tooling which can be individually integrated in the printing or converting machine.



The removable stamps installed in the upper cylinder cut through the web. The waste is carried out through the bush which is located in the lower cylinder and is afterwards sucked off centrally.

By means of the 100% free of play gears and the special mounting the tools are absolutely synchronous. Our service performance is above-average because of the combination of precisely aligned stamps and bushes.



To guarantee a 100 % free of play synchronous running of the tool, we pay special attention to the highest precision at the point of assembly and installation.

Your advantages

- Adherence of very close tolerances during the cutting process
- Compact construction
- Good repair possibilities by individually exchangeable parts

PowerCheck

Optimal cutting pressure – accurate and reproducible

Spilker PowerCheck is a helpful addition which your cutting unit should not be without. Unregulated cutting pressure – whether too low or too high – is a chief cause of high tool wear and inferior cutting results.

With Spilker PowerCheck the cutting pressure can be read off precisely and be adjusted for each side individually. Sensitive force sensors transmit the applied pressure to analog display meters separately for each side. The values with the best results can consequently be reproduced for repeat orders.

The compact and robust construction with a both sided cutting pressure display is not only very precise but also extremely space saving.



The unique threaded coupling enables a quick adjustment of the press spindle with one grip.

Your advantages

- Exact calibration with fine thread spindles
- Minimisation of tool wear
- Protection of drive components
- Easy installation, also with rapid spindle adjustment

PowerBridge

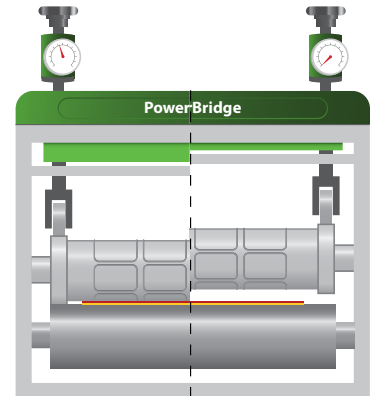
Predefined cutting pressure at the push of a button

By pushing the button the cutting pressure can be turned on and off pneumatically and absolutely reproducibly. The lift is individually adjustable: on the one hand the gears stay in the mesh and hold their position, on the other hand it is possible to separate them completely so that they are freely rotatable.



Thanks to the compact and at the same time very robust construction the PowerBridge functions without susceptible mechanical lever components and can be used in all cutting stations which are customary in this industry.

The contact pressure is set as usual with press spindles and read off by Spilker PowerCheck or a standard display unit.



Pressurised and closed (step 1)
> cuts

Depressurised and up to 5 mm open (step 3)
> does not cut



level 1

Locked with full cutting pressure – cuts

For perfect cutting results the cutting pressure can be adjusted in an optimum way with Spilker PowerCheck.



level 2

The gears remain in mesh, material can be moved

For an easy and safe handling during the sorting out of cutting edges, material unevenness or material that got caught.



level 3

Gears completely separated, the cylinder is freely rotatable

Time-saving for the change of flexible dies and the cleaning of the cylinders. A direct manual presetting is possible.

Your advantages

- Pneumatically reproducible cutting pressure
- Minimisation of tool wear
- Exact calibration with fine thread spindles
- Protection of the drive components
- Easy installation also with rapid spindle adjustment

ProfiCut

ProfiCut is a versatile longitudinal cutting tool

Longitudinal cuts or alternatively longitudinal perforations can be produced in a simple and highly professional way. The holder is easy to assemble and you can insert both rotary knives and razor blades. The contact pressure and accordingly the penetration depth is adjusted with a knurled screw at the spring-load mounted rotary arm.

Fine adjustment

The precise fine-thread spindle made of brass makes sure that the position of the cutter in cross direction can be exactly adjusted to the required web width.

By request Spilker delivers a complete longitudinal cutting unit with an impression roller and reverse rollers consistent with your machine.



Easy installation at the grab handle. The cutting position is easily and exactly adjustable by the use of the knurled screws.



Your advantages

- Easy installation
- Versatile
- Low-priced web cut
- Optional with crush knife or razor blade

ScissorCut

The longitudinal system for highest expectations

Spilker's newly developed ScissorCut can be easily integrated in existing machines. The track speed is transmitted either from the existent machine control or via friction wheel to the drive motor.

Comfortable adjustment

At the push of the button the top and bottom knife part pneumatically. Thus the knives are freely accessible and can be reclaimed or added. The cover plate can be widely swung back, in order to generate much free space for setup works.

Knife position is digitally readable

The bottom knives are exactly positioned and fixed via hand wheel. The knife position and accordingly the needed web width is comfortably digitally displayed.



- Knife Ø 100 mm
- Smallest distance 14 mm
- Web width max. 800 mm



Digital position indicator

Your advantages

- Easy knife positioning
- Compact mounting unit
- With own drive
- With manual cross adjustment of the whole unit

LabelShifter / Plus

Comfortable and easy shifting of labels

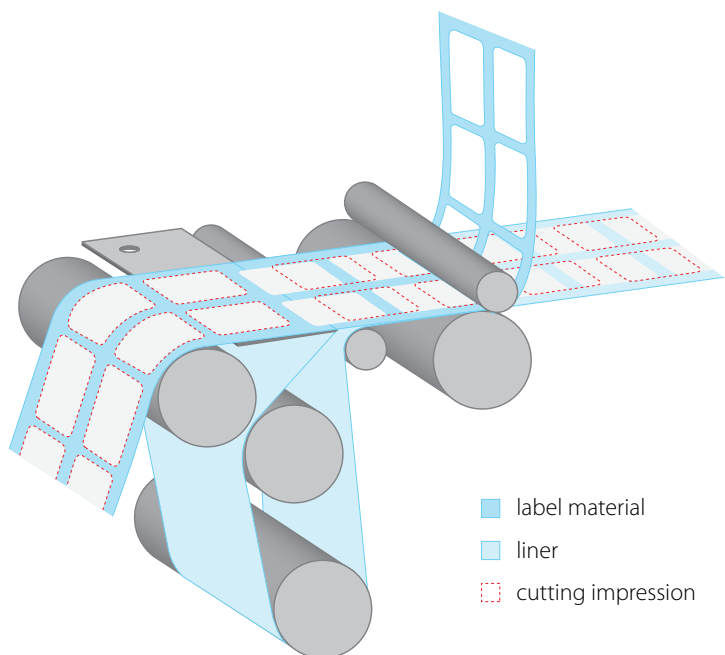
The LabelShifter / Plus moves the labels in the inline-process from their original position to a new one on the liner. The degree for the offset is freely adjustable. Naturally the gap from label to label and the production speed remain unchanged. Dispensing problems due to kiss cutting of the liner or bleeding of adhesives are no longer an issue.

Fast and steady removal of counter-rotating waste matrixes

The LabelShifter Plus is also an effective support for faster removal of the waste matrix even of difficult shapes. As the LabelShifter Plus works effectively at all speeds without compromise, the removal of complicated grids is no longer a brake of the production process.



The LabelShifter / Plus can be easily integrated into the existing production process. Electrical connections and adjustments to machine controls are not required.



Schematic LabelShifter Plus

Your advantages

- Easy retrofitting into the existing production process
- Label offset adjustable via hand wheel
- No electrical connection required
- No limitation of production speed
- Deflection rollers can be mounted at different positions
- LabelShifter Plus: Fast and steady removal of waste matrixes

Gears

Spilker gears – always a reliable connection

Spilker offers with its gear program from its own production maximum quality and continuity. Therefore it is possible to produce gears and gear pairs for all machine types and applications individually and suitable for any requirement.

The huge variety of materials and the widely defined processing options made in-house guarantee a smooth and fast order processing of any gear type in different quality classes.



Grinding of hardened gears



The gearing quality is checked on a 3D-measuring machine



Gearing at the hobbing process



Your advantages

- Huge number of modules on offer
- Helical and straight gearing
- Possibility of different qualities:
 - milled
 - milled and hardened
 - ground
 - hardened and ground
- All usual materials (e.g. steel, aluminium, plastic, etc.) can be processed
- Fast delivery by means of in-house production

End Rings

For the perfect rotary screen printing

Screen printing is still a special and decorative printing process. Since the establishment of rotary screen printing in combination with the high speed rotary print system it is now almost impossible to think of manufacturing high quality and economic labels without the use of this process. The most important components of the sensitive screen cylinder are the specially selected mesh materials and the endrings.

End rings are very sensitive

For this reason Spilker has developed a special manufacturing system. All of the necessary specifications and tolerances of the printing-machine manufacturers have strictly been adhered to.

The highest standards have been set in concentricity, stability, the quality of the gear teeth as well as hard anodized surface.



Perfect endring
with precise
identity number.

Your advantages

- End rings with and without gear teeth
- Hard anodised layer for increased wear protection

Service

Exceptional solutions – far beyond the implemented products

When it is about to develop new ideas for customers' requirements, Spilker certainly also provides advisory support.

- On-site-service for measuring magnetic cylinders
- Local analysis and application consultation
- Development and construction of system components as well as complete systems
- Test preparations at Spilker
- Production of 0-series

As an expert in the manufacturing of rotary tools we are of course also familiar with their maintenance. Whether cutting, magnetic and printing cylinders, hot stamping cylinders or other rotary tools – at Spilker you and your tools are in good hands.



No product is like the other. Therefore Spilker develops special solutions always in close contact with our partners to reach the best possible result for the particular application.

Rotary Cutters

- Repair of broken cutting lines
- Laser welding
- De-coating and coating of tools
- Mechanical resharpener (also non Spilker tools)

Hot Stamping and Embossing Cylinders

- Complete revision or rather adjustment in case of material change

Counter-Pressure Cylinders and Support Shafts

- Smooth grinding

Magnetic Cylinders

- Maintenance of axles or complete axle change
- Closing of the holes
- Regrinding

Printing Cylinders

- Bearing replacement
- New gears
- Axle change



Even the revision of maximum tools is a routine procedure for Spilker.

Product and application examples



Labels



Printed products

Printing and Labels

Processing and finishing at the highest level

For more than 50 years now Spilker has delivered tools for the printing, label and converting industry. Whether printing cylinders and sleeves for perfect printing results, flexible dies and cutting tools for precise and reliable processing or hot stamping and relief embossing cylinders for perfect packaging design: with tools made by Spilker you will reliably achieve the best results.



Industry



Automotive

Industry and Automotive

Considerably higher productivity by the use of rotary cutting processes

The ranges of application for rotary tools and machines in the industry are manifold and offer a decisive advantage in terms of speed compared to other techniques. Very different materials for stamped parts in high-volumes, seals, components for sound insulation, isolation or for the use in mechanical, electrical as well as decorative functions can be handled.



Electronics



Medical products



Pharma

Medical and Pharmaceutical Engineering

Precision tools for the highest standards

The variety of products of medical and pharmaceutical products requires often the treatment of particularly challenging composite materials. Combinations of foils, textures or metal foils combined with adhesives and different cover materials do not only need a very precise cutting geometry but also absolutely exact cutting depths.



Packaging



Consumer goods

Packagings and Consumer Products

Rotary Processing for an efficient production

Locks, opening or tear-off tabs, single adhesive components, but also complete packagings can be produced effectively with rotary tools and machines.

Also for many disposables and consumer goods important processings steps are realised rotationally and the result are unique products with the aid of cutting, embossing and laminating applications.



Personal care



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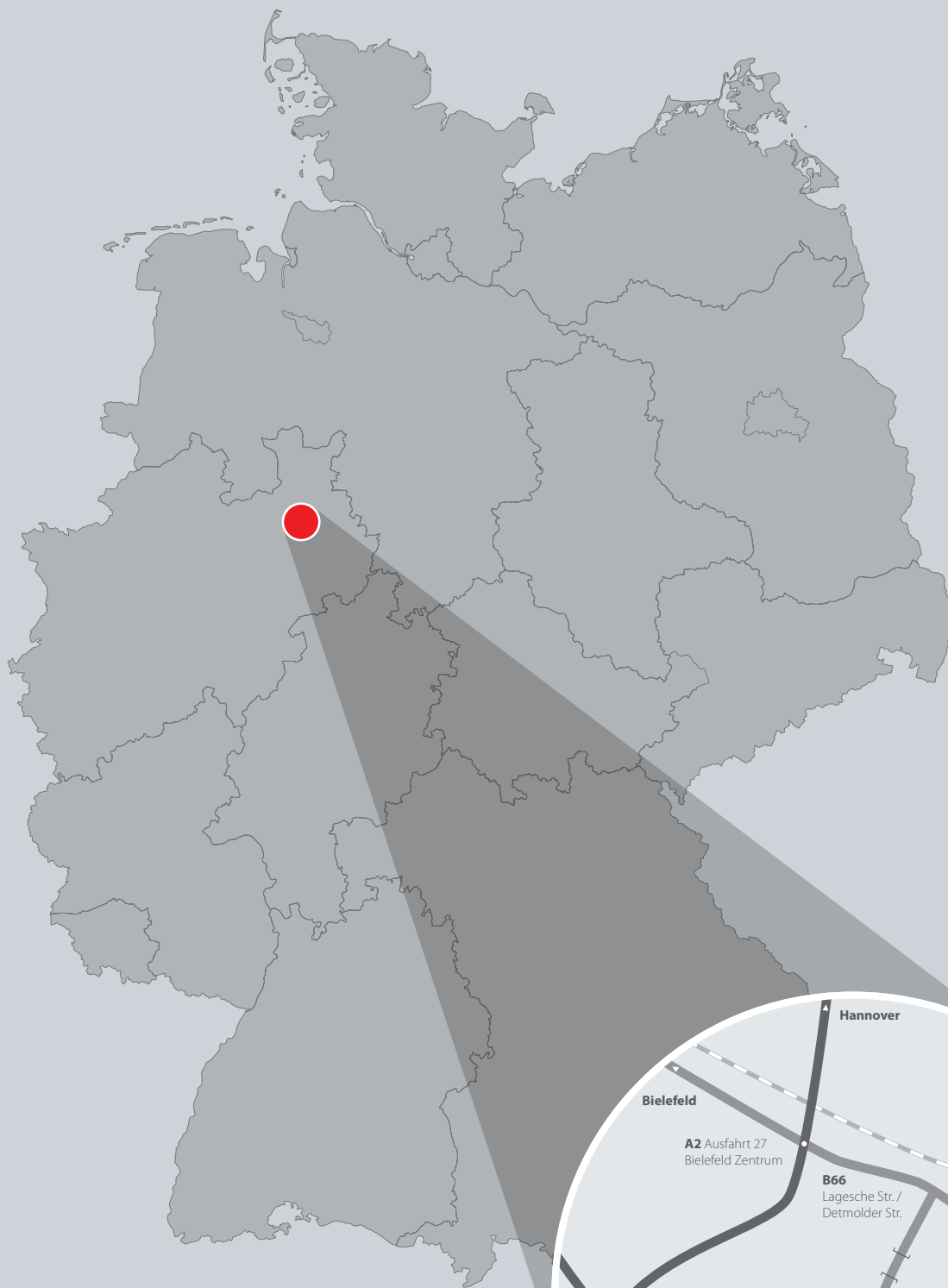
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