



ROTAPLUS®

ROTARY DIE SHELLS



**Faster and more
precise die cutting!**



SPERRHOLZWERK

SCHWEITZER

ROTAPLUS®

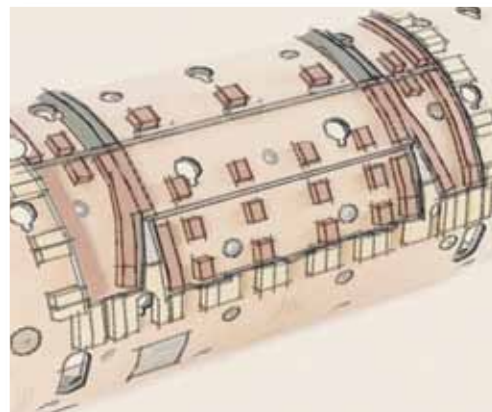
ROTARY DIE SHELLS



THE base material for rotary dies

The demands made on cutting dies are challenging and complex. Rotary cutting dies must permit problem-free installation on presses. Electronically controlled cutting presses have to be able to provide working with millimetre precision. In addition, millions of impressions have to be completed with absolute exactitude at maximum speed, while ongoing technical developments in the corrugated converting industry require production materials to demonstrate ever smaller dimensional tolerances and enhanced stability.

Uncompromising quality standards are expected from component producers and in particular the quality of the rotary die shells – the 'chassis' of the carton design – is of decisive importance. **It is precisely in this area that we see our assignment, which consists of the production of rotary die shells of the highest quality standard and their punctual delivery on the agreed date.**



Our material: Beech wood

We only use beech, which comes from sustainably managed, central European forests. **Beech is a homogenous and very hard wood with excellent strength values.** These positive characteristics in tandem with our careful processing ensure that you receive with **ROTAPLUS® ROTARY DIE SHELLS** the base material that is suitable for **precise die cutting results at maximum running speed and maximum life on press.**

Wood does not leave any carbon footprint

Sustainability forms the focus of our entire value added process. Wood that cannot be turned into plywood is employed as biomass for the generation of thermal energy within our company.



Foto: BMLFUW/Rita Newman

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Our strengths are your advantages

The structure

Selected beech veneer quality in all layers secures dimensionally stable forming of the rotary die shells. This constitutes the basis for the **optimum running characteristics** of your rotary cutting die.

Our gluing guarantees **ideal laser cutting capacity** that is free of unhealthy emissions.

The **careful gluing** of each veneer sheet guarantees complete bonding without any delamination of the plywood. This facilitates optimum process safety as the **steel rules are in the right position** and support them to **remain stable and rigid from run to run**.

The **fibre sense of the veneer layers** is predominantly transverse to the axial direction. Thus the **rules in the axial direction**, which are subject to the greatest pressure during the cutting process, provide **maximum service life**.

Dimensional stability

A **diameter** within the permitted tolerance represents the **basis for optimum cutting quality** and high rotary cutting die performance.

Parallel axes of rotary die shells ensure minimum setting times in the case of cutting die replacement.

Uniform thickness across the entire rotary die shell facilitates **precise laser cutting**.



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The coating

Brown is the standard coating colour for **ROTAPLUS®** ROTARY DIE SHELLS.

Coating on both sides

- reduces the direct absorption of moisture, thus ensuring that the shell retains its **dimensional stability**
- allows **clean laser cutting** without any burning of the coating
- provides a clean and smooth surface, which thus **improves rubber glue adhesion**



Your colour selection, your corporate colour

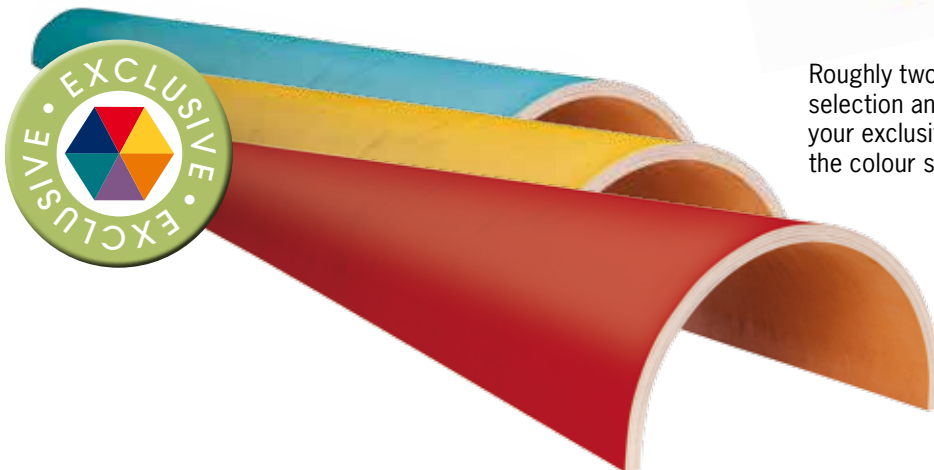
You have a free choice regarding the colour of your **ROTAPLUS®** ROTARY DIE SHELLS.

The procedure:

- You select your colour (RAL, Pantone, etc.)
- We send you a prototype in your requested colour
- Following your approval, your colour selection will be produced **EXCLUSIVELY** for you
- Your colour choice is subject to long-term protection



Roughly two months are required between your colour selection and the initial delivery of the die shells in your exclusive shade. The costs are dependent upon the colour setting and the quantity.



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Exclusive for your company

Your logo, your corporate design

On request, we produce **ROTAPLUS®** ROTARY DIE SHELLS with your logo.

The procedure:

- You send us your logo as a vector graphic (eps, ai, pdf)
- We use this to produce a digital print sample
- The colour is matched using a prototype cliché
- Following your approval, a serial printing cylinder will be created for serial production with your logo

A period of roughly four months is required between your logo request and initial delivery. The costs are dependent upon the number of colour clichés and the quantity.



The rotary die shells with
your logo will become
your advertising vehicle.



Foto: Fotolia



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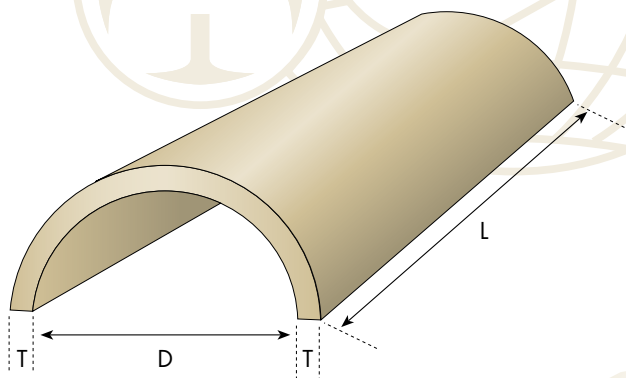


Technical details

Dimensions

D	7"– 25 1/2" (177–650 mm)
L	max. 118 – 1/10" (3,000 mm)
T	1/2" (13 mm)*

*) Other thicknesses on request



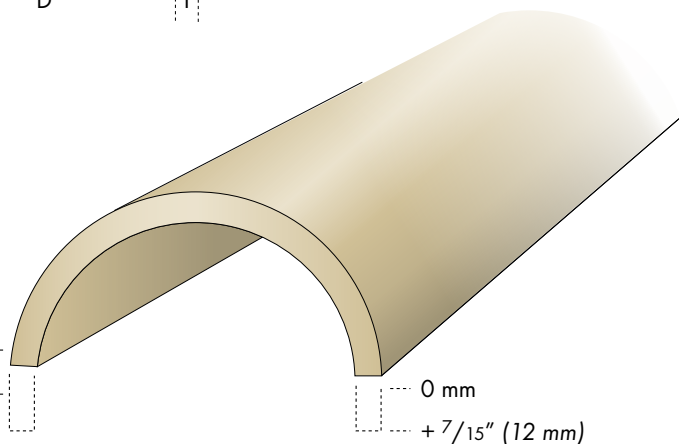
Radial lengths

Radius or tangents according to your instructions

Curve height
– 2/25", 0", + 2/25", + 7/15"
– 2 mm, 0 mm, + 2 mm, + 12 mm

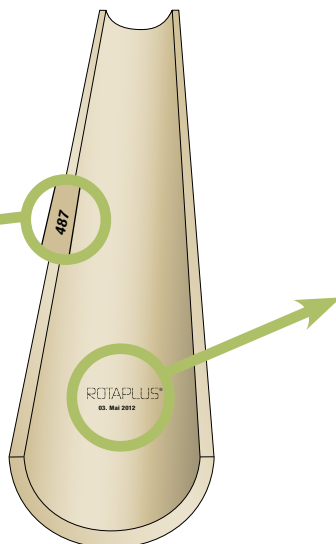
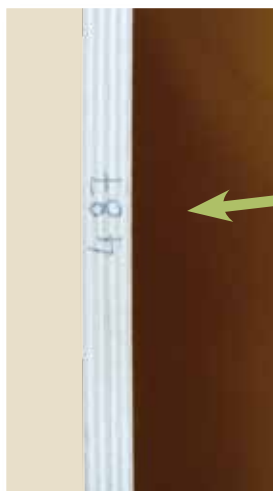
– 2/25" (2 mm)
+ 2/25" (2 mm)

0 mm
+ 7/15" (12 mm)



Controls and traceability

The measured inner diameter is written on the inside edge.
For example: 487 = 19–3/16"



The respective production date is stamped onto the inner side of the shell.



Packaging

ROTAPLUS® ROTARY DIE SHELLS are wrapped in plastic film on disposable pallets and are thus fully protected for transport. Depending on their diameter and length, between 10 and 100 shells are carried per pallet.

Truck loading

Lengths up to 86-2/3" (2,200 mm)



Lengths longer than 86-2/3" (2,200 mm)



Container loading

With heat treated pallets (ISPM 15)

Lengths up to 82-2/3" (2,100 mm)



Lengths longer than 82-2/3" (2,100 mm) and HC containers



ROTAPLUS®

ROTARY DIE SHELLS



made in
Austria



Selected materials, careful processing and conscientious final quality checks ensure that only first class, **perfect products** will be shipped to our customers.



Sperrholzwerk Schweitzer GmbH

Freundorf 9
4076 St. Marienkirchen/Polsenz
Austria
www.rotaplus.at

T +43 7249 47153
F +43 7249 47565
office@rotaplus.at



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