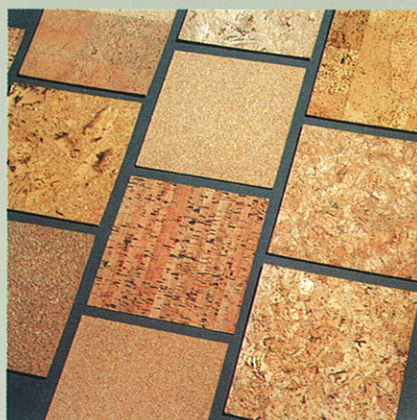
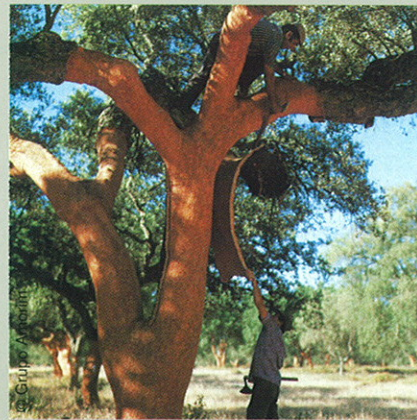


BANDKÄPPE SPLITTING
MACHINE K 2

Fecken-Kirfel
GmbH & Co. Maschinenfabrik



■ Cutting machines
for the
cork industry



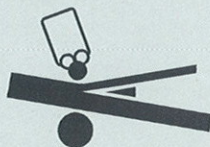
CUTTING MACHINES FOR CORK AND CORK RUBBER

For processing cork and cork rubber we offer splitting machines as well as peeling machines, which allow to split blocks made from cork or cork rubber into thick or thin sheets and to peel cylinders into thin, endless foils. Our machines for the cork industry can be found worldwide in all large cork processing companies and they have successfully proved to be reliable for decades.

Our product line is very versatile and, therefore, meets the demand for cutting a variety of materials each with its unique characteristics. All our splitting and peeling machines have a sturdy cast iron construction and proven themselves to be durable and long lasting. All machines are continuously upgraded to incorporate the latest technical developments.

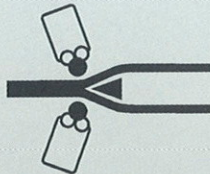
OVERVIEW

Horizontal splitting machines



K 2

Newcomer model for splitting blocks made from pressed cork and rubberized cork up to a hardness of max 70° Shore, scale "A" and polyethylene foam



G 1

Splitting machine for splitting highly agglomerated rubberized cork up to a hardness of max 85° Shore, scale "A"



H 24 B

Fully automatic table machine for splitting blocks made from pressed cork, decoration cork, rubberized cork up to max 70° Shore, scale "A", granulated rubber, highly agglomerated rebond foam up to 800 kgs/m³ (50 lbs/ft³) and similar materials



H 24 C

Fully automatic table machine for splitting thinner sheets made from even harder materials, e.g. pressed cork, decoration cork and cork rubber up to max 90° Shore, scale "A"

Peeling machines



R 13

For peeling cylinders made from pressed cork, rubberized cork etc. up to a hardness of max. 70° Shore, scale "A", agglomerated foam etc.



R 14

For peeling cylinders made from a mixture of granulated rubber and PU-foam, polyurethane elastomer, "Tartan", agglomerated foam, silicone, nitrile rubber etc.

BANDKNIFE SPLITTING MACHINE K 2

Materials to be split

Blocks and gasket frames made from cork particles, decor cork and rubberized cork up to max. 70° Shore, scale "A", polyethylene foam and similar materials

Fields of application

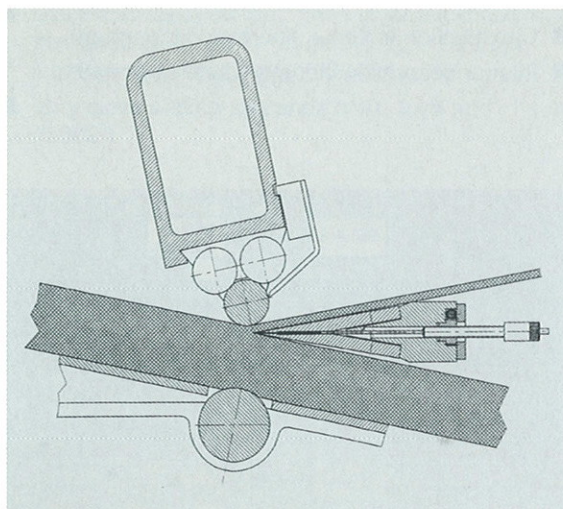
- ☐ Automotive industry (gaskets)
- Construction industry (flooring/cork parquet)
- Interior decoration industry (cork wall paper made of decoration cork)

Features

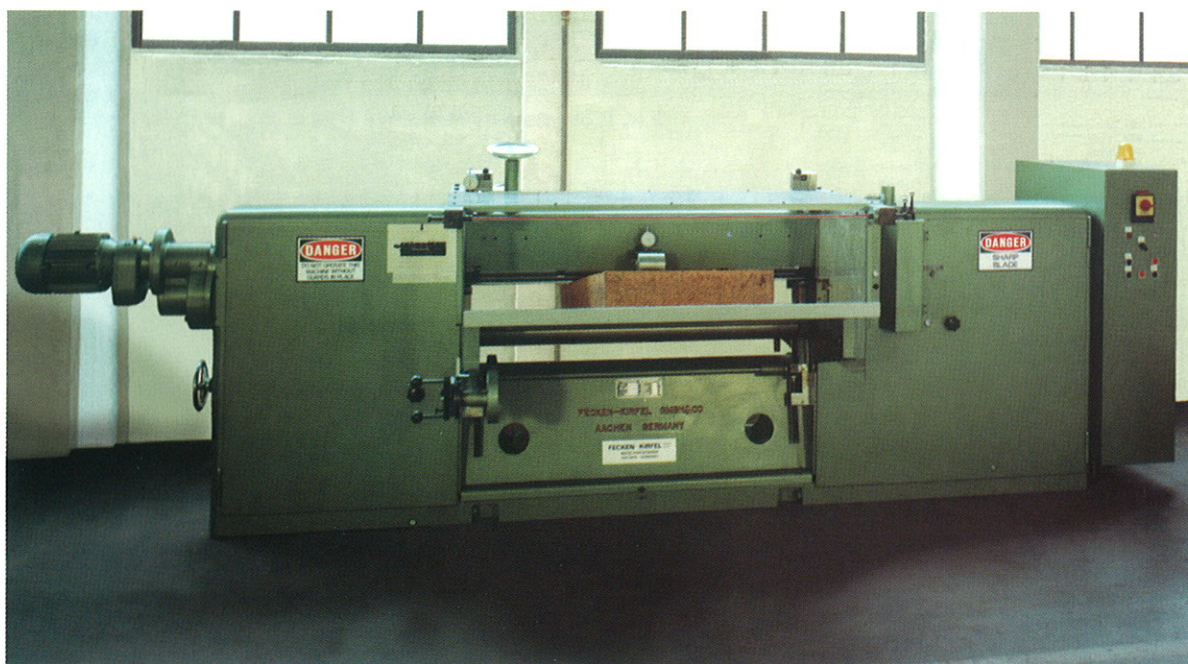
- Material is guided by two feed rollers towards the rotating bandknife
- ☐ Layer thickness selection by height adjustment of the upper feed roller
- ☐ Diameter of the upper feed roller 40 mm (1.575") and the lower feed roller 100 mm (3.937")
- Maximum range of adjustment above the bandknife 25 mm (0.984")
- Feeding speed of 7.5 and 15 m/min (24.6 - 49'/min) via pole-changing motor
- ☐ Bandknife width: 85 mm (3.346")
- Service life of a bandknife: 150 - 200 working hours
- Automatic bandknife readjustment via control circuit

Advantages

- Close splitting tolerance +/- 0,1 mm (0.004")
- ☐ Simple operation
- Price attractive alternative compared to our machine H 24 B
- ☐ Space saving alternative compared to our machine H 24 B



Upper and lower feed roller



Bandknife splitting machine K 2

BANDKNIFE SPLITTING MACHINE G 1

For highly agglomerated rubberized cork with a hardness of up to max. 85° Shore, scale "A" our bandknife splitting machine G 1 can be used. Max. thickness of the initial sheet: 25 mm (0.984")

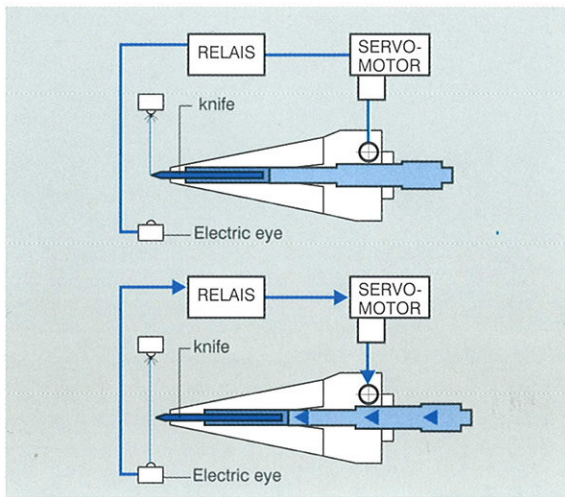
AUTOMATIC SPLITTING MACHINE H 24 B WITH SLIDING TABLE

Materials to be split

Blocks and gasket frames made of pressed cork and rubberized cork up to max. 70° Shore, scale "A", decoration cork, reconstituted bonded rubber, PU bonded foam up to a density of 800 kgs/m³ (50 lbs/ft³) and similar materials

Fields of application

- Automotive industry (gaskets)
- Construction industry (flooring/cork parquet)
- Interior decoration industry (decoration cork)



Automatic bandknife readjustment

Advantages

- Close splitting tolerance of $\pm 0,1 \text{ mm}$ (0.004")
- User friendly automatic operation
- One-man operation possible

Features

- Components of the machine: Stationary cutting unit and 2200 mm (87") long sliding table
- Table speed infinitely adjustable from 4 - 40 m/min (13 - 130'/min) in advance motion, constant max. speed of reverse motion 130'/min
- Electronic readjustment of layer thickness in the range of 0.8 - 20 mm (0.030" - 0.787") with increments of 0.01 mm (0.001")
- Bandknife width: 60 mm (2.362")
- Service life of the bandknife: 100 - 150 working hours
- Grinding device for the bandknife with two motorized grinding stones
- Automatic bandknife readjustment by automatic control system with photoelectric scanning of the knife edge and adjustment of the knife position when required

Options

- Extension of the sliding table by multiples of 1 m (39")
- Special execution to split blocks made of natural cork, minimum layer thickness 0.3 mm (0.012")



Bandknife splitting machine H 24 B

SPECIAL EXECUTION MACHINE H 24 B

For splitting cork blocks with a hardness of max 80° Shore, scale "A" and rigid cork rubber, our machine H 24 B can be equipped with more powerful motors for the table and bandknife drive as well as for the grinding system.

AUTOMATIC BANDKIFE SPLITTING MACHINE H 24 C WITH SLIDING TABLE

Materials to be split

Blocks and gasket frames made of rigid pressed cork, decoration cork and rubberized cork up to max. 90° Shore, scale "A" and similar materials

Fields of application and features

- ☐ Machine H 24 C is basically the same as machine H 24 B
- It is also designed for splitting thinner sheets from harder materials and offers even better splitting tolerances
- ☐ Table speed infinitely adjustable in the range of 3 - 30 m/min (9.8' - 98'/min)
- Electronic readjustment of the layer thickness in the range of 0.5 mm - 10 mm (0.02" - 0.4") with increments of 0.01 mm (0.0004")
- Very close cutting tolerance of +/- 0.05 mm (0.002")

	H 24 B	H 24 B*	H 24 C
suitable for splitting	Pressed cork, granulated rubber, cork rubber (max. 70° Shore, scale "A")	Decoration cork, rigid rubberized cork (max. 80° Shore, scale "A")	Rubberized cork (max. 90° Shore, scale "A")
Aluminum table plates	15 mm	15 mm	20 mm
Clearance above the bandknife	25 mm	20 mm	10 mm
Max. layer thickness	20 mm	20 mm	6 mm
Table speed	4 - 40 m/min	3 - 30 m/min	3 - 30 m/min
Angle of the knife guidance	2 x 10°	2 x 10°	2 x 15°
Tolerances	+/- 0,1 mm	+/- 0,1 mm	+/- 0,05 mm

Table: Comparison H 24 B, H 24 B reinforced version and H 24 C



Bandknife splitting machine H 24 C

BANDKNIFE PEELING MACHINE R 13 AND WIND-UP DEVICE R 29

Materials to be peeled

Cylinders made from pressed cork and rubberized cork up to max. 70° Shore, scale "A", rebond foam and similar materials

Fields of application

- Construction industry (sound insulation)
- Automotive industry (gaskets)
- Beverage industry (gaskets for crown-corks)

Features

- Range of layer thickness:
0.8 - 6.0 mm (0.030" - 0.236")
– with increments of 0.1 mm (0.004")
in the range of 0.8 - 3.0 mm (0.030" - 0.118")
– with increments of 0.2 mm (0.008")
in the range of 3.0 - 6.0 mm (0.118" - 0.236")
- Max. cylinder diameter: 760 mm (29.921")
- Max. cylinder weight incl. peeling mandrel: 1.000 kgs (2204 lbs)
- ☐ Peeling speed: 1.5 - 15 m/min (4.9' - 49.2')
- Bandknife width: 85 mm (3.346")
- ☐ Bandknife service life: 150 - 200 working hours

Options

- Enlargement of the cylinder diameter up to 1.000, 1.500 or 2.000 mm (39", 59" or 79")
- ☐ Length counter
- ☐ Trimming device
- Electronic preselection of layer thickness

Advantages

- Close peeling tolerance +/- 0.1 mm (0.004")
- Extremely thin layer thicknesses possible

SPECIAL EXECUTION MACHINE R 13

In the special execution the machine can also be used for peeling cork wall paper with a min. peeling thickness of 0.4 mm (0.016") and for peeling rebond foam up to a max. peeling thickness of 20 mm (0.78").

REWINDING MACHINE R 29

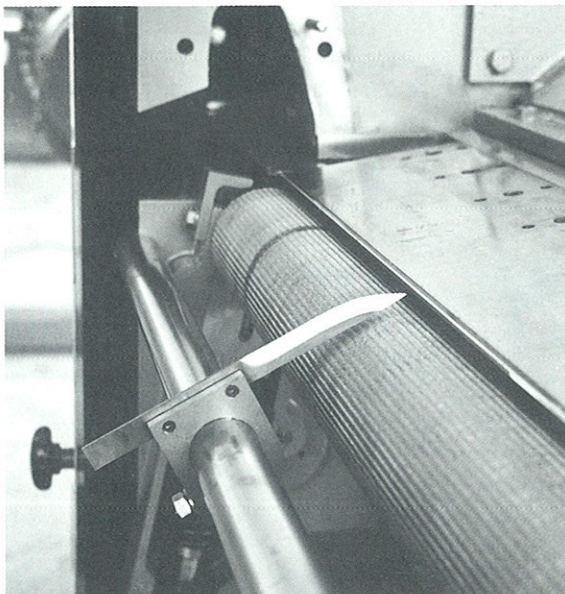
- The machine R 29 for winding up the peeled foils is installed behind the machine R 13
- ☐ Winding principle: centric winder

TRIMMING DEVICE FOR MACHINE R 13

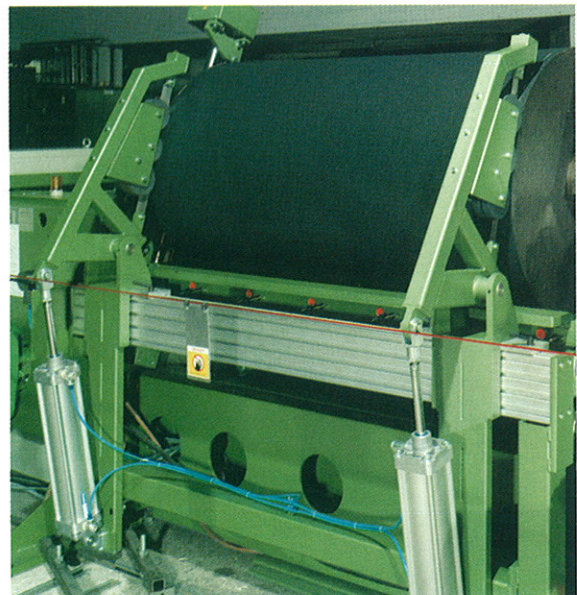
- The trimming device is situated above the feed roll; the cylinder is trimmed just before peeling
- ☐ The trimming device consists of a tube with 2 movable knife holders and knives. The knives can be adjusted to the desired cylinder width. For strip cutting, additional knives can be placed along the tube.

TRIMMING DEVICE FOR MACHINE R 14

- The trimming device consists of two stationary knives that are pneumatically pressed against the cylinder behind the machine. Both knives are guided by support rollers which prevent the knives from deflecting to the sides, thus guaranteeing an accurate trim cut.
- With this trimming device it is possible to trim the material peeled during the peeling operation to the desired final width or to carry out a central longitudinal cut.



Trimming device for machine R 13



Trimming device for machine R 14

BANDKNIFE PEELING MACHINE R 14 WITH REWINDING MACHINE R 58

Materials to be peeled

Cylinders made from PU-bonded granulated rubber, PU-elastomers, "Tartan", rebond foam, silicone, nitrile rubber and similar materials

Fields of application

- Foils for die cutting and insulation parts in the machine production industry
- Automotive industry (gaskets)
- Arenas and playgrounds (elastic floors)

Features

- Range of peeling thickness:
 - 1.0 - 10 mm (0.04" - 0.4")
 - with increments of 0.1 mm (0.004") in the range of 1.0 - 3.0 mm (0.04" - 0.118")
 - with increments of 0.2 mm (0.008") in the range of 3.0 - 6.0 mm (0.118" - 0.236")
 - with increments of 0.5 mm (0.020") in the range of 6.0 - 10 mm (0.236" - 0.4")
- Max. cylinder diameter: standard 760 mm (29.921")
- Max. cylinder weight incl. peeling mandrel: 2.000 kgs (4408 lbs)
- ☐ Peeling speed: 1.5 - 15 m/min (4.9' - 49.2')
- Bandknife width: 100 mm (4")
- ☐ Bandknife service life: 200 - 400 working hours
- Automatic bandknife readjustment via automatic control system

Options

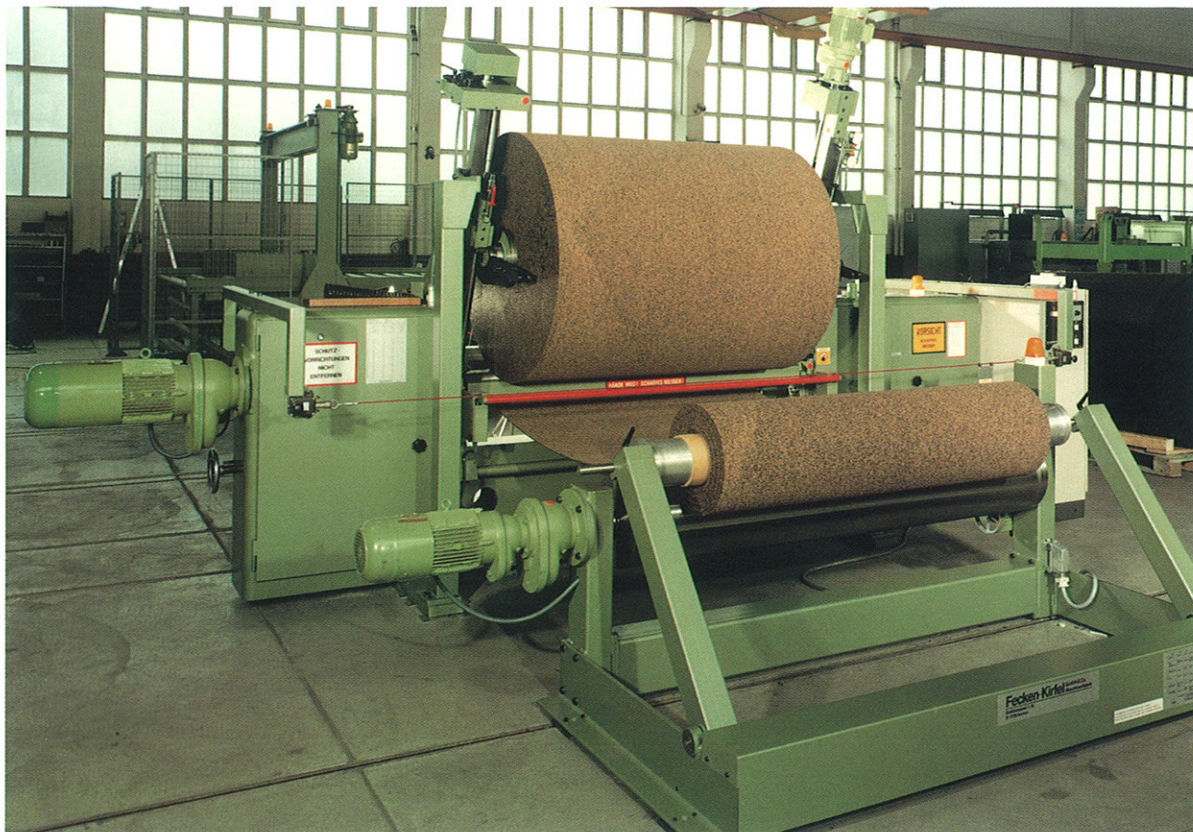
- ☐ Enlargement of the max. cylinder diameter up to 1.000 or 1.500 mm (39" or 59")
- Increase of max. cylinder weight to 2.800 kgs (6173 lbs)
- ☐ Length counter
- Electronic preselection of layer thickness

Advantages

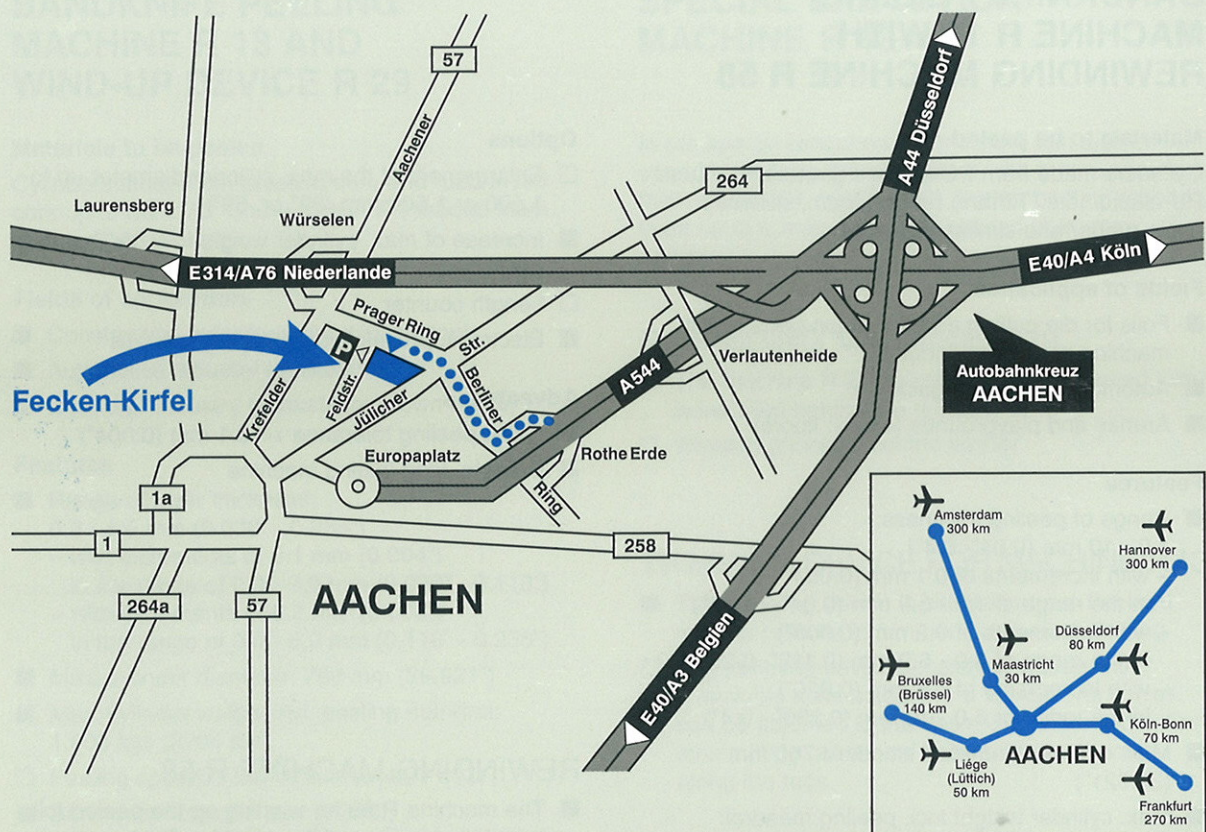
- Close peeling tolerance +/- 0.1 mm (0.004")
- Durable, long lasting machine

REWINDING MACHINE R 58

- The machine R 58 for winding up the peeled foils is installed in front of the machine R 14.
- ☐ Winding principle: Peripheral winder with drive via frequency controlled a.c. gear motor.



Bandknife peeling machine R 14



Our product line includes:

Cutting machines for the plastics, rubber and cork industry

■ Special cutting machines for flexible foams

Cross Cutting
Vertical Cutting
Horizontal Splitting
Cutting Line
Contour Cutting Center
Vertical Contour Cutter
Radius Contour Cutting
Profiling (Convoluting)
3-D-Cutting
Form-Cutting
Peeling
Long Bun Splitting

■ Special cutting machines for rubber and solid plastics

Vertical Cutting
Peeling cylinders
Horizontal Splitting

■ Special bandsaws for rigid PU foams, rigid PVC, expanded Polystyrene, rigid phenolic resin foam, phenolic honeycomb material „Nomex“

Vertical Sawing
Horizontal Sawing
Horizontal Splitting
Cutting blocks to length
Peeling cylinders

■ Splitting and peeling machines for cork and cork rubber

Horizontal Splitting
Peeling cylinders

Due to continual development we reserve the right of changing the data in this leaflet.

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