

KARL MAYER

WE CARE ABOUT YOUR FUTURE

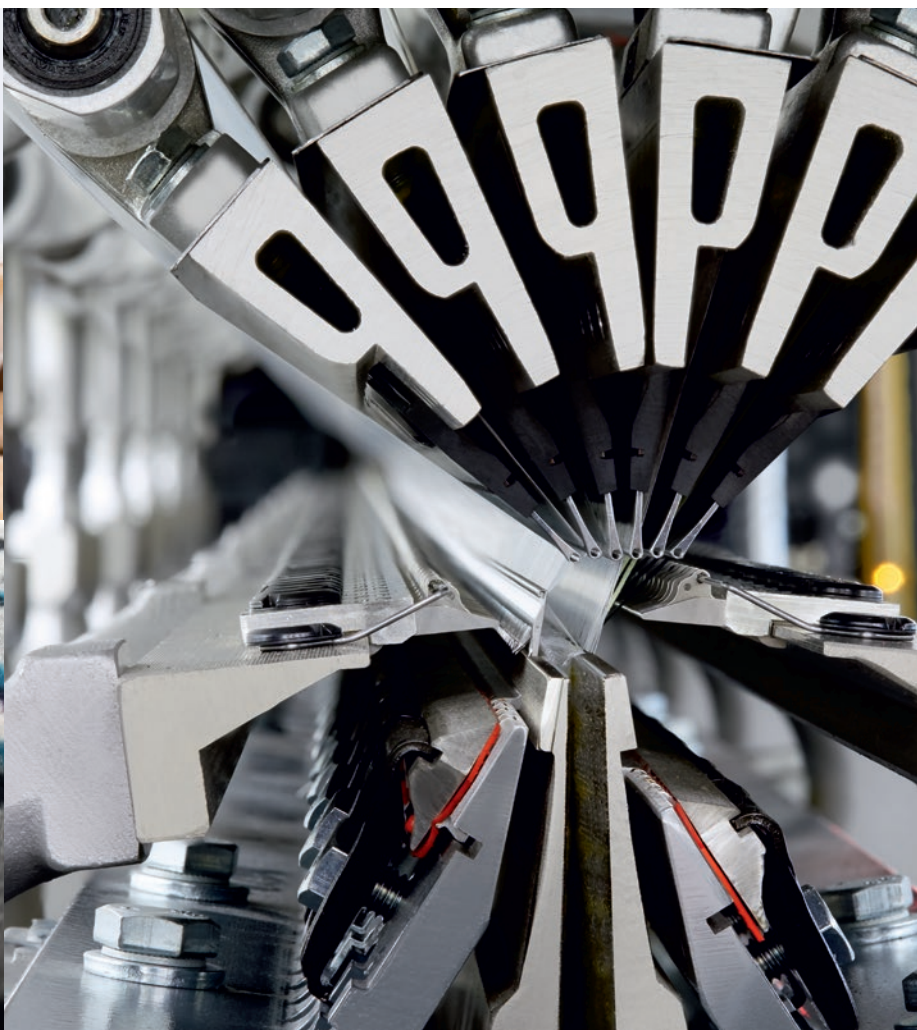
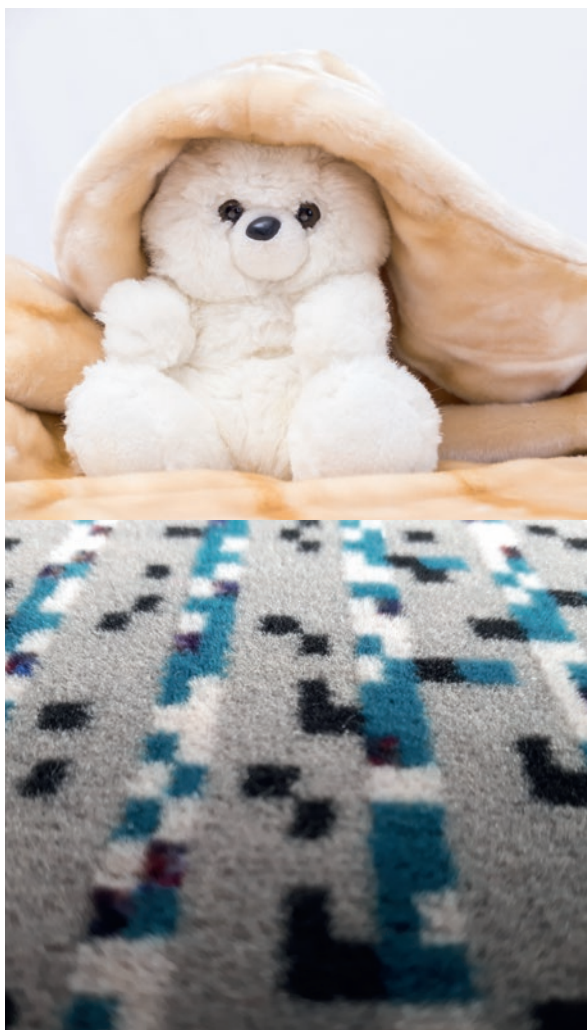
WARP KNITTING
经编机

RD 6/1-12 EN

RD 6 DPLM 12-30 (EL)

HPSM

Double Needle Bar Machines
双针床经编机



DOUBLE NEEDLE BAR MACHINES: COMBINE COMFORT AND FUNCTIONALITY

双针床经编机:

将舒适性与功能性完美结合



Your Benefit – Our Solution 您的优势 – 我们的解决方案

High-performance Raschel machines for blanket and toy plush 生产毛毯织物和玩具绒的高性能拉舍尔经编机

Warp-knitted plush and blanket fabrics can be used for a wide range of applications. Short- and long-pile blankets represent one of the most popular markets. However, the fabrics are also used in the upholstery and car and public-transportation-seating sectors. The fabric is popular due to its unique properties: a soft surface combined with a ground structure that securely locks the pile yarn. This level of stability cannot be achieved with other production methods.

The machines are suitable for any kind of synthetic plush or blanket fabric with a maximum pile length of 15 mm. By using a high-precision cutting machine, double needle bar fabric with a multifilament pile can be divided in half, leaving two parts with the exact same pile length.

High-quality cutting is the key to reducing further production steps and ensuring an even surface appearance.

Plush produced on double needle bar Raschel machines has been used for decades. The firm ground structure guarantees lasting durability, which is of high value to the seating and home textile industries.

经编绒类和毛毯织物的应用广泛。其中，毛毯是最受欢迎的产品之一。此外，这些面料也广泛用于内饰、汽车座椅等领域。它们因其独特的性能而广为流传：柔软的表面和牢牢锁住绒纱的底布。这种稳定的结构无法采用其他生产方法获得。

这类设备能生产所有类型的人造毛绒和毛毯面料，毛绒最长15mm。采用高精度剖幅机将双针床面料剖幅，便能获得毛绒长度一致的两片面料。

高品质的剖幅是减少后续生产步骤，确保产品表面均匀的关键。

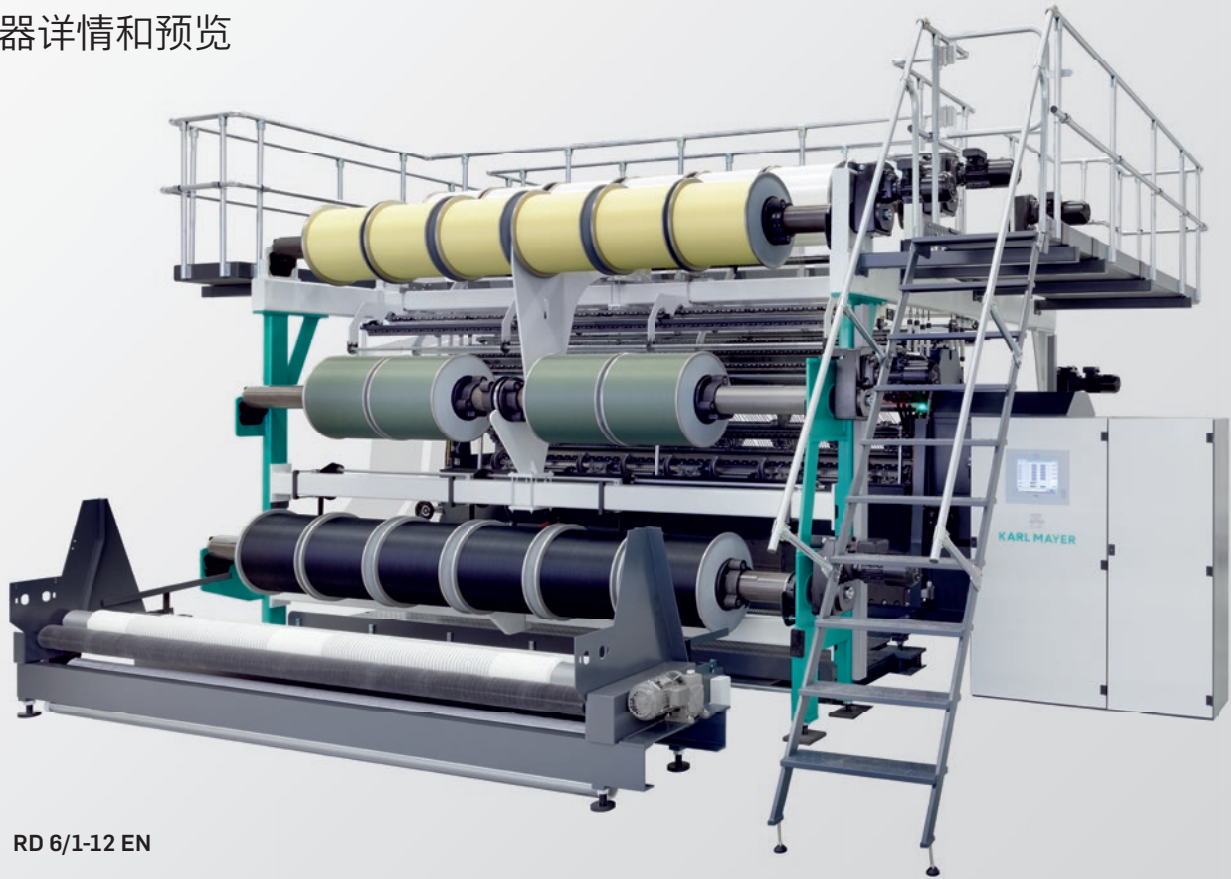
在双针床拉舍尔经编机上生产毛绒的工艺已经沿用了数十载。

牢固的底布结构确保面料经久耐用，在座椅和家纺行业中具有高价值的应用。

RD 6/1-12 EN; RD 6 DPLM/12-30 (EL)

Machine details and overview

机器详情和预览



RD 6/1-12 EN

RD 6/1-12 EN

The flexible high-speed machine for high-end plush, velour and short-pile blanket fabrics

- EN – highly efficient production speed combined with easy and flexible patterning
- Available in two working widths
- Easy handling due to stitch comb swivelling device and central trick plate readjustment
- Flexible trick plate distance to serve the needs of various applications – also suitable for the production of DNB spacer fabrics

生产高品质短绒面料的灵活型高速经编机

- EN—高效的生产速度与灵活的提花能力相结合
- 两种工作幅宽
- 优化后的沉降片床释放装置和脱圈板中央隔距调节装置让操作更加简便
- 脱圈板间距的调节简单灵活, 能满足不同的应用—也适用于双针床间隔面料的生产

RD 6 DPLM/12-30 (EL)

The flexible machine for toy plush and middle-pile blanket fabrics

- Easy handling due to stitch comb swivelling device and central trick plate readjustment
- Flexible trick plate distance to serve the needs of various blanket types
- Optional EL drive for ease and flexibility in patterning

生产玩具绒和中长绒毛毯面料的灵活型设备

- 优化后的沉降片床释放装置和脱圈板中央隔距调节装置让操作更加简便
- 脱圈板间距的调节简单灵活, 能满足不同毛高的需求
- 可选配EL提花机构, 获得简单、灵活的提花性能

HPSM

Machine details and overview

机器详情和预览



HPSM

The high-precision slitting machine for double-plush fabrics

- High-quality cutting knife with optimised cutting position and continuous grinding guarantees a stable cutting result
- Optimum cutting quality can reduce need for additional working steps to improve the quality after cutting
- Our HPSM is equipped with several sensors and devices that monitor its condition and improve cutting to produce the best quality possible
- Stepless slitting speed between 0.5 and 10 m/min.

双针床毛绒面料的高精度剖幅机

- 优质的切割刀具、更佳的切割精度、连续式打磨，这些确保了稳定的剖幅品质
- 优异的剖幅品质，这减少了为提升布面品质开展的后续工作
- 我们的HPSM配备了若干传感设备，监控实时生产状况，获得最佳的产品品质
- 剖幅速度在0.5和10米/分之间无极可调



Double plush produced on Raschel machines is not only soft and comfortable but also has a firm ground structure. After the knitting procedure, double plush can be cut on our high-precision cutting machine HPSM.

拉舍尔经编机上生产的双面毛绒不仅柔软舒适,而且底布结实。编织完成后,织物可以在高精度剖幅机HPSM上进行剖幅。

End uses 终端应用	RD 6/1-12	RD 6 DPLM/12-30
spacer 衬垫	×	
plush 绒布	×	
toy plush 玩具绒	×	×
blanket 毛毯	×	×
shoe fabrics 鞋材	×	
outerwear 外套	×	
simplex 辛普勒克斯		
nets 网眼	×	
seamless 无缝衣物		
medical 医用纺织品	×	
semi-technical applications 半产业应用	×	
mattresses 床垫	×	

RD 6/1-12 EN; RD 6 DPLM/12-30 (EL)

Technical data

技术参数

Working width / Gauge

RD 6/1-12 EN:
3505 mm = 138" (optional + 2");
E 18, E 22, E 24

RD 6 DPLM/12-30 (EL):

3505 mm = 138"
E 12, E 16, E 18 E 22

Knock-over comb bar distance

RD 6/1-12 EN: 1-12 mm

RD 6 DPLM/12-30 (EL):

12-30 mm continuously adjustable, including patented stitch comb swivelling device
Option: central trick plate distance readjustment

Bars / Knitting elements

Two needle bars (RD 6/1-12 EN with latch needle units, RD 6 DPLM/12-30 (EL) with individual latch needles), two knock-over comb bars and two moveable stitch comb bars, six ground bars, GB 3 and GB 4 stitch forming on both needle bars
Option (RD 6/1-12 EN): individual needle bars

Warp beam support

RD 6/1-12 EN:
6 × 812 mm = 32"
(free-standing)
Option: 6 × 40"

RD 6 DPLM/12-30 (EL):

4 × 40" / 2 × 60"
(free-standing)

KAMCOS®

(KARL MAYER COMMAND SYSTEM)

Operator interface to configure, control and adjust the electronic functionality of the machine

Fabric take-up

Four-roller system, driven by electronic drive

Batching device

RD 6/1-12 EN:

No. 14-J1

RD 6DPLM/12-30 (EL):

No. 14F-J1

Pattern drive

RD 6/1-12 EN:

EN-drive with six electronic guide bar drives

Max. shog distance:
ground 18 mm, pile 25 mm

RD 6 DPLM/12-30 (EL):

N/EL-drive with six ground/electronic guide bars

Max. shog distance:
ground 18 mm, pile 25 mm

Electrical equipment

RD 6/1-12 EN:

Speed-regulated main drive, power-failure-safe with separate fine-positioning function, total connected load 33 kVA

RD 6 DPLM/12-30 (EL):

Speed-regulated main drive, power-failure-safe with separate fine-positioning function, total connected load 29 kVA

EL: 50 kVA

工作门幅/机号

RD 6/1-12 EN:
3505 mm = 138英寸(可加宽 + 2英寸);
E 18, E 22, E 24

RD 6 DPLM/12-30 (EL):

3505 mm = 138英寸
E 12, E 16, E 18, E 22

脱圈板间距

RD 6/1-12 EN: 1-12 mm

RD 6 DPLM/12-30 (EL):

12-30 mm, 无极调节, 配有受专利保护的沉降片床释放装置
选配: 脱圈板中央间隔调节装置

床体/成圈机件

2个针床 (RD 6/1-12 EN使用舌针针块, RD 6 DPLM/12-30 (EL)使用嵌入式舌针), 2个脱圈板床以及2个运动的沉降片床, 6把地梳, GB 3和GB 4在两个针床上都能成圈
选配 (RD 6/1-12 EN): 嵌入式针床

经轴架

RD 6/1-12 EN:
6 × 812 mm = 32英寸
(独立式)
选配: 6 × 40英寸

RD 6 DPLM/12-30 (EL):

4 × 40英寸 / 2 × 60英寸
(独立式)

卡迈酷斯®2 (卡尔迈耶控制系统)

操作界面, 用于设置、控制和调节机器的电控部分功能

织物牵拉机构

4罗拉系统, 由电机传动

卷取机构

RD 6/1-12 EN:

14-J1号卷取机构

RD 6 DPLM/12-30 (EL):

14F-J1号卷取机构

提花机构

RD 6/1-12 EN:

配备6个横移电机的EN提花机构
最大的横移距离:

地梳18 mm, 间隔梳25 mm

RD 6 DPLM/12-30 (EL):

配备6个花盘/横移电机的N/EL提花机构

最大横移距离:

地梳18 mm, 间隔丝25 mm

电子设备

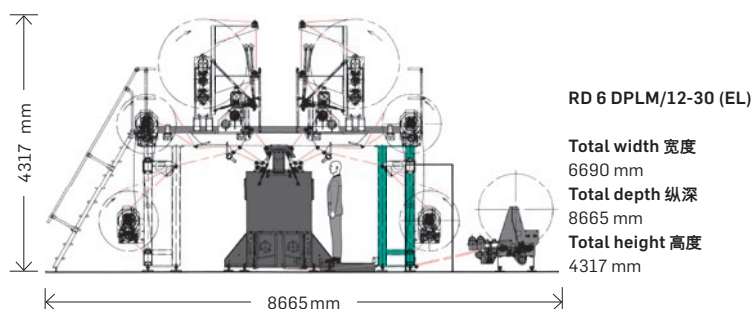
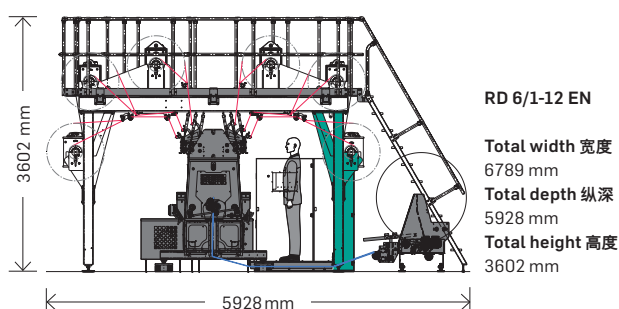
RD 6/1-12 EN:

调速主电机, 断电保护, 具有独立的精确定位功能, 机器总连接负载33千伏安

RD 6 DPLM/12-30 (EL):

调速主电机, 断电保护, 具有独立的精确定位功能, 机器总连接负载29千伏安

EL: 50千伏安



HPSM

Technical data 技术参数

HPSM for standard

Working width

1960 mm = 77",
2540 mm = 100",
3300 mm = 130"

Fabric feeding system for double fabrics

Two-roller feeding device

Cutting device and band knife device

Cutting speed: 0.5 to 10 m/min, band knife with automatic height adjustment and constant sharpening system, emergency stop system if band knife breaks, suction device for grinding dust, automatic band knife, scanning

Fabric take-up for cut fabrics (two systems)

One take-up roller with fillet card clothing, one speed-regulated idler roller, one deflection roller, two fabric take-up rollers with black griptape

Batching device

Rising roll batcher

HPSM BL for blankets

Working width

2540 mm = 100",
3300 mm = 130"

Fabric feeding system for double fabrics

Two-roller feeding device

Cutting device and band knife device

Cutting speed: 0.5 to 10 m/min, band knife with automatic height adjustment and constant sharpening system, emergency stop system if band knife breaks, suction device for grinding dust, automatic band knife, scanning

Fabric take-up for cut fabrics (two systems)

One take-up roller with fillet card clothing, two deflection rollers, two fabric take-up rollers with black griptape

Batching device

Rising roll batcher

Optional equipment (standard, blankets)

- Fluff suctioning device, balancing device for grinding disc (blankets)

HPSM标准型

工作门幅

1960 mm = 77英寸,
2540 mm = 100英寸,
3300 mm = 130英寸

双面织物喂入系统

双罗拉喂入机构

剖幅装置和刀带

剖幅速度: 0.5-10 米/分; 刀带可自动调节高度, 配持续磨刀系统; 刀带损坏急停系统; 飞尘吸收装置; 自动式刀带; 扫描装置

织物牵拉装置 (两个系统)

一个包覆针布的牵拉罗拉, 一个调速导辊, 一个导布辊, 两个包覆黑色防滑带的牵拉罗拉

卷取装置

升降卷布罗拉

HPSM BL 毛毯型

工作门幅

2540 mm = 100英寸,
3300 mm = 130英寸

双面织物喂入系统

双罗拉喂入机构

剖幅机构和刀带

剖幅速度: 0.5-10 米/分; 刀带可自动调节高度, 配持续磨刀系统; 刀带损坏急停系统; 飞尘吸收装置; 自动式刀带; 扫描装置

织物牵拉装置 (两个系统)

一个包覆针布的牵拉罗拉, 两个导布辊, 两个包覆黑色防滑层的牵拉罗拉

卷取装置

升降卷布罗拉

选配

- (标准型, 毛毯型)
- 绒毛吸收装置, 磨盘平衡机构 (毛毯)

HPSM (130")

Total width 宽度
7036 mm
Total depth 纵深
9160 mm
Total height 高度
2075 mm

