

KARL MAYER

WE CARE ABOUT YOUR FUTURE

WARP KNITTING
经编机

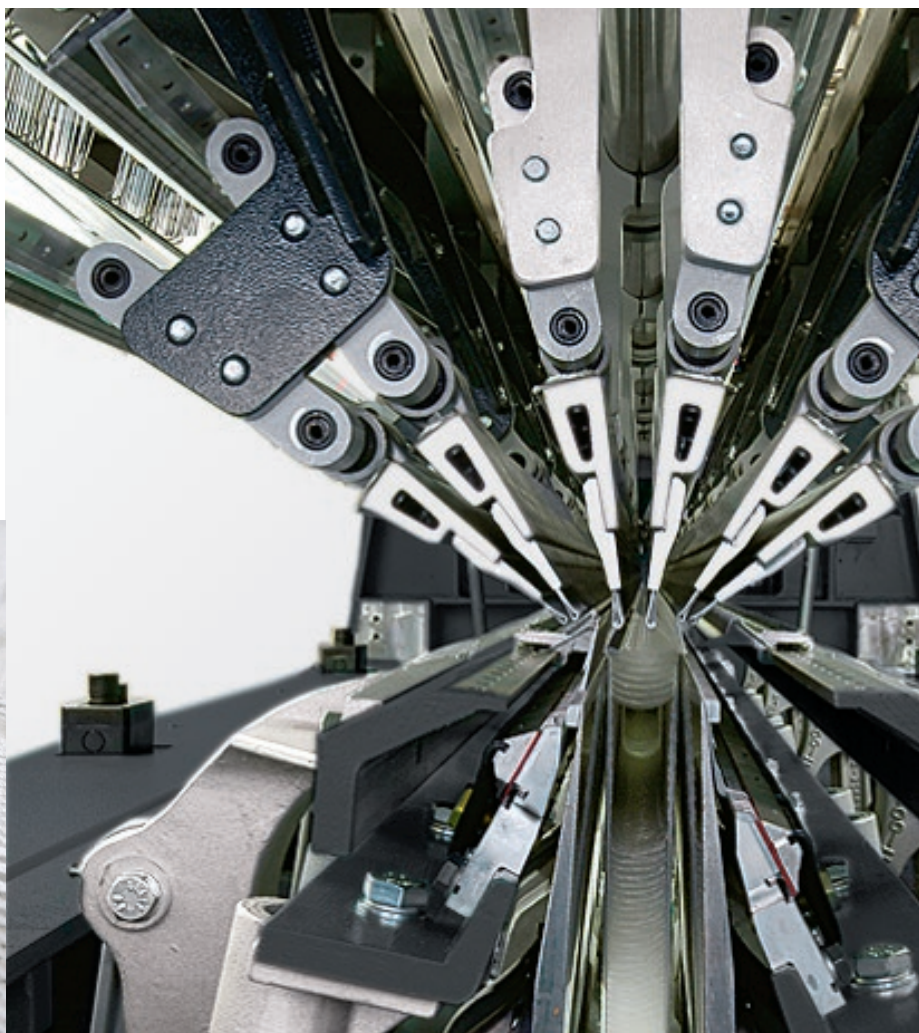
HD 6/20-65 EL

HD 6/20-35 (EL)

HIGH DISTANCE® – High-performance Raschel machines
for high-distance spacer fabrics

高叠层® – 生产大隔距间隔织物的高性能拉舍尔经编机





DOUBLE NEEDLE BAR MACHINES: EXTEND YOUR LIMITS

双针床经编机：
激发您的无限潜能



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

High-performance Raschel machines for HIGH-DISTANCE® spacer fabrics 生产高叠层®间隔织物的高性能拉舍尔经编机

Warp-knitted spacer fabrics consist of a top surface, a bottom side and a pile yarn layer in between – three elements which can be shaped in most variable forms. Whilst the design of the cover faces is determined by selecting the appropriate stitch densities, the space in the textile is determined by the laying angle and by the density of the pile yarns. The outstanding variety achieved in this way is not only decisive for the appearance of the article but also for the specific properties of the textile spacer fabrics.

Key characteristics are:

- Climatic regulation – for optimised moisture and heat management and high breathability
- Compression elasticity – for excellent padding properties
- Stretching ability – for a fantastic elasticity in both longitudinal and cross-wise directions
- Design potential – for varying surface patterns and 3D structures

In addition to the typical applications for RD spacer fabrics, HIGH DISTANCE® fabrics allow for new market potential thanks to the flexible trick plate distances and electronic pattern drives.

Traditional applications like mattress or seating interior, as well as applications in the more technical fields, can be produced. Spacer fabrics are ideal as a non-toxic, permeable and lightweight foam replacement.

经编间隔织物由正、反表面以及中间的间隔纱线层构成，它们可以根据需要形成各种结构。间隔织物的面层由线圈密度和垫纱结构所决定；间隔层由间隔丝的排列角度和排列密度所决定。通过调节上述参数，不但让间隔织物拥有靓丽的外表，还赋予了间隔织物独特的性能。

主要性能特征：

- 气候调节—优化湿度和热量管理，提升透气性
- 压缩弹性—杰出的填充性能
- 拉伸性能—纵横向都有良好的弹性
- 设计潜能—丰富多变的面层和3D结构

除了双针床间隔织物的经典应用外，高叠层®面料还具有全新的市场潜力，这归功于灵活的脱圈板间距调节和电子提花机构。

传统应用包括床垫或者座椅材料，以及更多的技术应用领域。间隔织物无毒、透水/透气、轻质，是泡沫材料的理想替代品。

HD 6/20-65 EL; HD 6/20-35 (EL)

Machine details and overview

机器详情和预览



HD 6/20-65 EL

HD 6/20-35 (EL)

The flexible economic machine for all sorts of HIGH DISTANCE® fabrics and applications

- Optional EL drive – extreme flexibility in patterning and stitch construction
- Easy handling due to stitch comb swivelling device and central trick plate readjustment
- Flexible trick plate distance to serve the needs of various applications

灵活、经济的机型，适合各类高叠层®面料

- 选配EL提花机构—花型结构变换灵活
- 沉降片床释放装置和中央隔距调节装置让机器操控更加简便
- 灵活的脱圈板间距调节可以满足多种需求

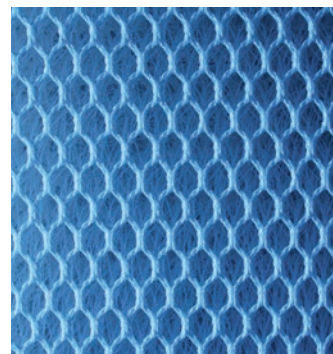
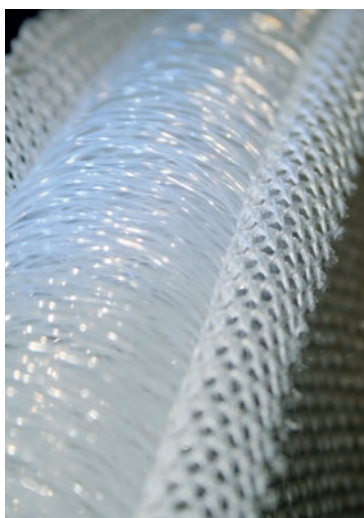
HD 6/20-65 EL

The highly flexible machine for all sorts of HIGH DISTANCE® fabrics and applications

- EL – extreme flexibility in patterning and stitch construction
- Easy handling due to stitch comb swivelling device and central trick plate readjustment
- Maximum range of trick plate distance to serve the needs of various applications

高度灵活的机型，适合各类高叠层®面料

- EL—花型结构变换灵活
- 沉降片释放装置和中央隔距调节装置让机器操控更加简便
- 脱圈板间距的调节范围最大，能够满足各种需求



Spacer fabrics are ideal as a non-toxic, permeable and lightweight foam replacement.

间隔织物无毒、透水/透气、轻质, 是泡沫材料的理想替代品。

End uses 终端应用	HD 6/20-35 (EL)	HD 6/20-65 EL
spacer 衬垫材料	×	×
plush 长毛绒		
nets 网类		
outerwear 外衣		
seamless 无缝衣物		
medical 医疗产品	×	×
upholstery 内饰材料	×	×
technical applications 技术应用	×	×
mattresses 床垫	×	×
filtering elements 过滤材料	×	×

HD 6/20-65 EL

Technical data

技术参数

Working width / Gauge

2667 mm = 105"
E 12

Knock-over comb bar distance

20–65 mm, continuously adjustable, including patented stitch comb swivelling device and central trick plate distance readjustment

Bars / knitting elements

Two individual needle bars with latch needle units, 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

Warp beam support

8 × 812 mm = 32"
(free-standing)
Option: 8 × 40"

KAMCOS®

(KARL MAYER COMMAND SYSTEM)

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

Fabric take-up

Six-roller system, driven by electronic drive

Pattern drive

EL-drive with six electronic guide bar drives
Max. shog distance: ground 18 mm, pile 65 mm

Electrical equipment

Speed-regulated main drive, power-failure-safe with separate fine-positioning function, total connected load 45 kVA

工作门幅/机号

2667 mm = 105英寸
E 12

脱圈板间距

20–65 mm, 无极调节, 配有受专利保护的沉降片床释放装置和中央隔距调节装置

床体/成圈机件

2个嵌入式舌针针床, 2个脱圈板床以及2个活动的沉降片床, 6把地梳, GB3和GB4在两个针床上都能成圈

经轴架

8 × 812 mm = 32英寸
(独立式)
选配: 8 × 40英寸

卡迈酷斯® (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

6罗拉系统, 由电机传动

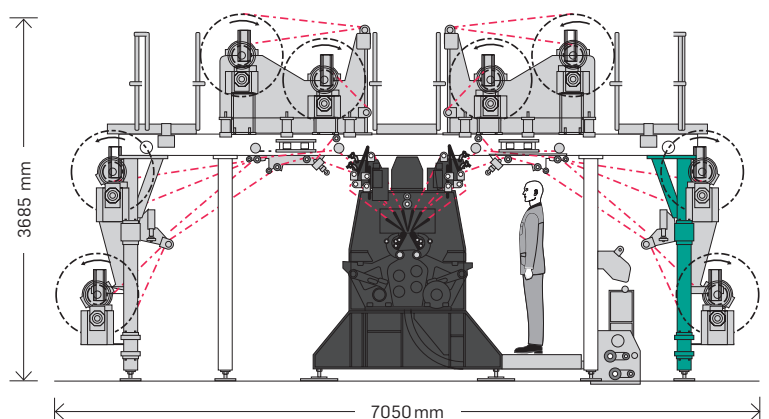
提花机构

配备6个横移电机的EL提花机构
最大横移距离: 地梳18mm, 间隔梳65 mm

电子设备

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45千伏安

Total width 宽度
7200 mm
Total depth 纵深
7050 mm
Total height 高度
3685 mm



HD 6/20-35 (EL)

Technical data

技术参数

Working width / Gauge

2794 mm = 110"
4064 mm = 160"
E 12

Knock-over comb bar distance

20–35 mm, continuously adjustable, including patented stitch comb swivelling device
Option: central trick plate distance readjustment

Bars / knitting elements

Two individual needle bars with latch needle units, 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

Warp beam support

6 × 812 mm = 32"
(free-standing)
Option: 6 × 40"

KAMCOS®

(KARL MAYER COMMAND SYSTEM)

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

Fabric take-up

Five-roller system, driven by electronic drive (110")
Four-roller system, driven by electronic drive (160")

Pattern drive

N-drive with six pattern discs or pattern drums
EL-drive with six electronic guide bar drives
Max. shog distance:
ground 18 mm, pile 25 mm

Electrical equipment

Speed-regulated main drive, power-failure-safe with separate fine-positioning function, total connected load 35 kVA

工作门幅/机号

2794 mm = 110英寸
4064 mm = 160英寸
E 12

脱圈板间距

20–35 mm, 无极调节, 配有受专利保护的沉降片床释放装置
选配: 脱圈板中央隔距调节装置

床体/成圈机件

2个装有舌针针块的针床, 2个脱圈板床以及2个活动的沉降片床, 6把地梳, GB3和GB4在两个针床上都能成圈

经轴架

6 × 812 mm = 32英寸
(独立式)
选配: 6 × 40英寸

卡迈酷斯® (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

5罗拉系统, 由电机传动 (110")
4罗拉系统, 由电机传动 (160")

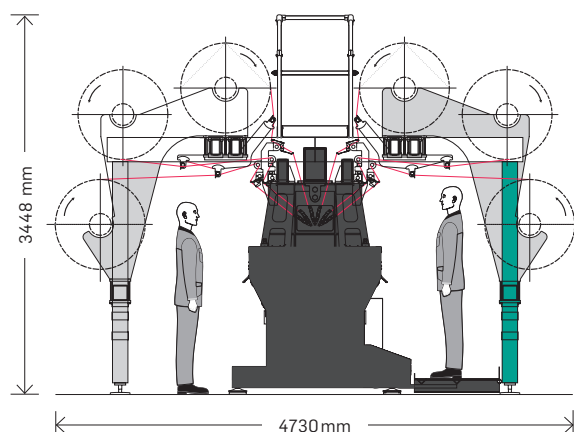
提花机构

配备6片花盘或者花纹滚筒的N型提花机构
配备6个横移电机的EL提花机构
最大横移距离: 地梳18 mm, 间隔梳25 mm

电子设备

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35千伏安

Total width 宽度
6930 mm
Total depth 纵深
4730 mm
Total height 高度
3448 mm



KARL MAYER Worldwide



Europe

Germany Obertshausen, Chemnitz, Selbitz, Frankfurt am Main, Reutlingen, Waldmünchen

Italy Mezzolombardo, Carpi **Switzerland** Oberbüren **UK** Nottingham

Asia

Bangladesh Dhaka **China** Changzhou, Hong Kong **India** Ahmedabad, Delhi **Japan** Fukui

North America

USA Greensboro

© KARL MAYER STOLL Textilmaschinenfabrik GmbH

Industriestraße 1 · 63179 Obertshausen · Germany

www.karlmayer.com

The information provided in this document contains general descriptions or specifications which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice. All rights reserved.