

# KARL MAYER

WE CARE ABOUT YOUR FUTURE



WARP KNITTING  
经编机

**HKS 2-SE**

**HKS 2-S**

**HKS 2-M**

Tricot machines for elastic and rigid articles  
生产弹力面料的特里科经编机





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**TRICOT MACHINES:**

**A PERFECT COMBINATION OF  
EFFICIENCY AND PRECISION**

**特里科经编机：高效与精准完美结合**

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

### Three machine concepts for your business success 助您成功的三个机器理念

Given the huge variety of modern textiles, it is necessary to focus attention on different aspects and certain specific conditions during production.

For the production of two-bar tricot fabrics, there are three kinds of machines available: **HKS 2-SE, HKS 2-S and HKS 2-M.**

The HKS 2-SE is the specialist for elastic fabrics and sets new standards in terms of productivity and fabric quality. While the HKS 2-M is more flexible in terms of producing fabrics with a coarse gauge and lower stitch density, the HKS 2-S is flexible enough to produce rigid as well as elastic fabrics, even with a finer gauge.

- High-performance knitting machines capable of producing a wide range of products
- An extensive range of patterns and articles
- Highest operational reliability
- Long service life
- New ergonomic design for optimised handling
- New KAMCOS® 2 operator interface is easier to use and integrate assistance apps
- Integrated monitoring systems for highly efficient production
  - Integrated Camera for fabric monitoring
  - Integrated Laserstop for yarn breakage detection
- Lower power consumption thanks to LEO® (Low Energy Option)
- Functional LED lighting

现代纺织品的种类繁多, 在生产过程中必须根据产品种类和终端应用制定不同的生产工艺。

在生产两梳经编面料时, 您可以根据实际需求从以下三款设备中选择:

**HKS 2-SE, HKS 2-S和HKS 2-M。**

HKS 2-SE是生产弹力织物的专家, 树立了面料产量和品质的全新标准。

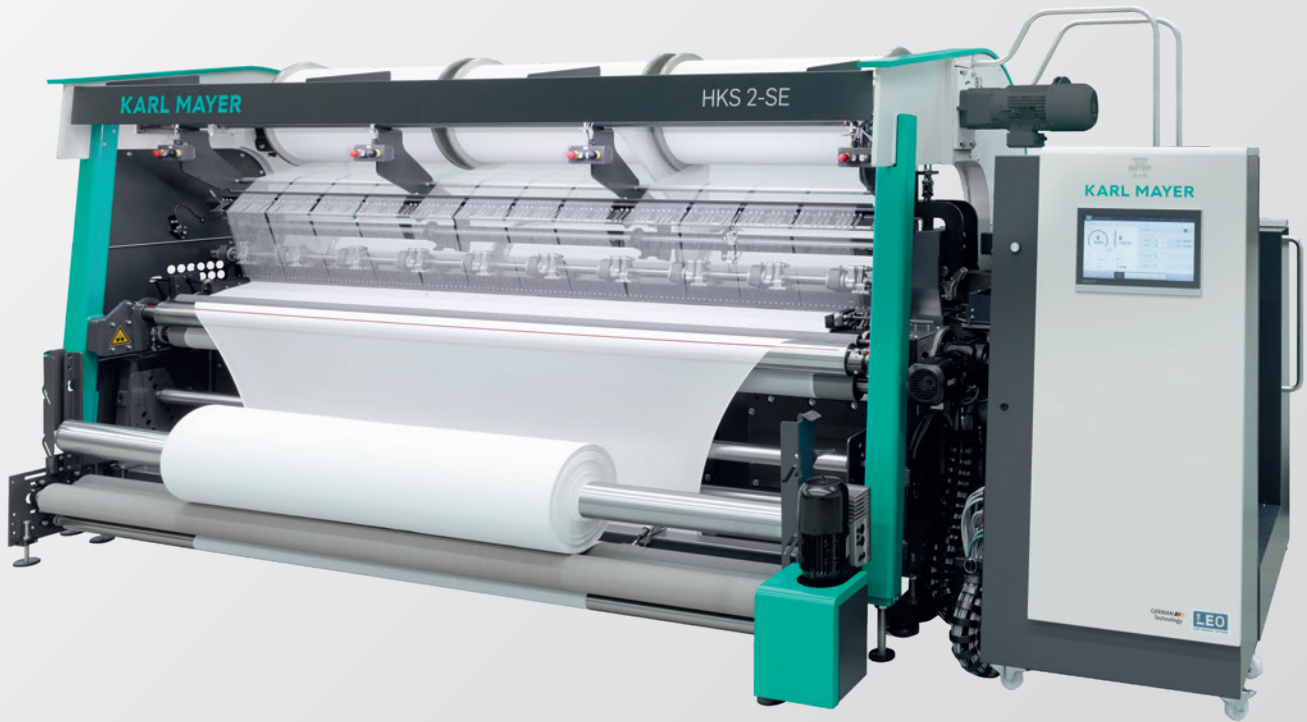
HKS 2-M适合密度相对较低的面料; HKS 2-S非常灵活, 擅长生产密度较高的弹力和无弹面料。

- 高性能经编机, 具备广泛的产品适应性
- 更宽泛的花型和产品类别
- 优异的操作可靠性
- 长久的使用年限
- 全新的人体工程学设计, 具备更佳的操作性
- 卡迈酷斯® 2界面让机器操控更加简便, 同时支持移动设备App
  - 照相自停装置用来监控布面品质
  - 激光自停装置用来检测断纱
- 应用了LEO®低能耗技术, 降低能源消耗
- 多功能LED照明系统

## HKS 2-SE; HKS 2-S; HKS 2-M

### Machine details and overview

### 机器详情和预览



#### HKS 2-SE

##### The high-speed machine for elastic fabrics

- Highest production output
- Optimised for standard elastic fabrics

#### HKS 2-SE

##### 生产弹力织物的高速经编机

- 最高的面料产量
- 适应标准型弹力面料的生产

#### HKS 2-S

##### The high-production machine for elastic and rigid structures

- Offers a high production speed with a wide range of textiles
- Designed for the best performance with standard fabrics

#### HKS 2-S

##### 弹力和无弹面料的高产能机器

- 较高的生产速度
- 生产常规面料时能发挥最佳性能

#### HKS 2-M

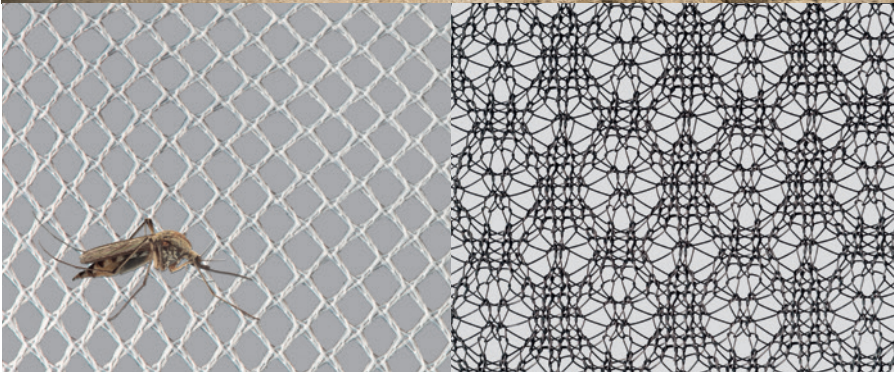
##### The flexible version for all kinds of article

- Widest range of products
- Suitable for low stitch densities
- Wide range of available gauges (E 18–E 32)

#### HKS 2-M

##### 适合多款面料的高速经编机

- 优异的产品多样性
- 适应生产密度相对较低的面料
- 多个机号配置 (E 18–E 32)



The two-bar HKS series: from the high-speed specialist for elastic fabrics to the all-rounder

两梳HKS系列: 从生产弹力面料的专家到全能机型。

End uses 终端应用	HKS 2-SE	HKS 2-S	HKS 2-M
automotive textiles 汽车用纺织品		×	×
tulles 薄纱		(×)	×
sportswear 运动服	×	×	×
shoe fabrics 鞋面材料			×
outerwear 外套	×	×	×
mosquito nets 蚊帐布			×
coating substrates 涂层基布			×
lingerie 内衣	×	×	
swimwear 泳装	×	×	

# HKS 2-SE; HKS 2-S; HKS 2-M

## Technical data

### 技术参数

Working width 工作门幅	HKS 2-SE		HKS 2-S		HKS 2-M	
	gauge from 机号从	to 到	gauge from 机号从	to 到	gauge from 机号从	to 到
130" (+ 2" working width extension for rigid fabrics) (+ 4" working width extension for elastic fabrics) 130英寸 (无弹面料+2英寸工作门幅) (弹性面料+4英寸工作门幅)	E 28	E 44	E 28	E 50	—	—
180" (+ 6" working width extension) 180英寸 (+6英寸工作门幅)	E 28	E 40	E 28	E 40	E 18	E 32
210" (+ 8" working width extension) 210英寸 (+8英寸工作门幅)	—	—	E 28	E 40	E 18	E 32

#### Bars / knitting elements

Individual needle bar with compound needles, slider bar with plate slider units (1/2"), sinker bar with compound sinker units, two guide bars with guide units. All bars are made of carbon-fibre-reinforced plastic.

#### Warp beam support

2 × 812 (32") (free-standing)  
Option: 2 × 1016 (40")  
(free-standing)

#### LEO®

Low Energy Option

#### KAMCOS® 2

(KARL MAYER COMMAND SYSTEM)  
Operator interface to configure, control and adjust the electronic functionality of the machine. KARL MAYER CONNECT user assistance. Multiple interfaces for third-party software. Easy and intuitive user guidance.

#### Integrated monitoring systems

- Integrated Laserstop
- Integrated camera

#### Integrated lighting

Uniform illumination of the working area showing machine operation status

#### Yarn let-off device

Electronically controlled, driven by geared motor

#### Fabric take-up

Electronically controlled, four-roller system in continuous execution, driven by geared motor

#### Batching device

HKS 2-S, HKS 2-M: No. 6  
Option: No. 33, 34A, 34B, 34E  
HKS 2-SE: No. 34A(E)  
Option: No. 29A

#### Pattern drive

N-drive with two pattern discs, integrated tempi change gear

#### Electrical equipment

Total connected load 25 kVA

#### Oil supply

Cooling by means of air-heat exchange  
Option: oil/water heat exchanger

#### 床体/成圈机件

安装复合针的嵌入式针床, 安装针芯块(1/2")的针芯床, 安装复合沉降片的沉降片床, 安装导纱针块的两把梳栉。所有床体均由碳纤维增强塑料制成。

#### 经轴架

2 × 812 mm (32英寸) (独立式)  
选配: 2 × 1016 mm (40英寸)  
(独立式)

#### LEO®

低能耗

#### 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。卡尔迈耶连线用户支持。第三方软件的多重接口。简单、直观的用户指导。

#### 配套监控系统

- 激光自停装置
- 照相自停装置

#### 照明装置

在显示机器工作状态的重要区域内实现均匀地照明

#### 送经机构

电子控制, 由电机传动

#### 牵拉机构

电子控制, 4罗拉系统, 连续执行, 由电机传动

#### 卷取机构

HKS 2-S, HKS 2-M: 6号卷取机构  
选配: 33, 34A, 34B, 34E号卷取机构  
HKS 2-SE: 34A(E)  
选配: 29A号卷取机构

#### 提花机构

安装2片花盘的N型横移机构, 包含行程变换齿轮

#### 电子设备

总连接负载为25千伏安

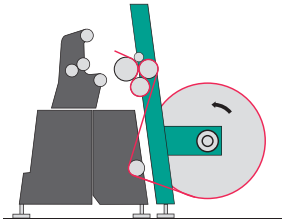
#### 供油

通过空气热交换装置冷却  
选配: 油/水热交换器



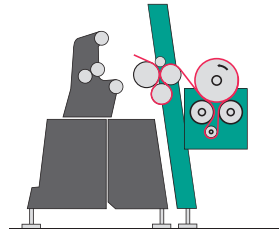
Integrated oil supply  
一体式供油系统

# HKS 2-SE; HKS 2-S; HKS 2-M



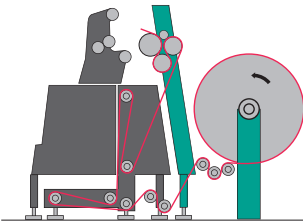
**No. 6**  
Batching device with central drive, sliding clutch, max. batch diameter of 736 mm (29 inches)

**6号卷取机构**  
轴心传动的卷取机构，带滑动式离合器，最大卷装直径为736mm (29英寸)



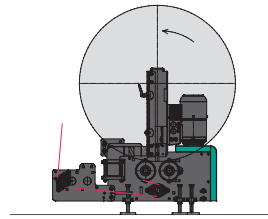
**No. 33**  
Batching device with friction drive, fabric feeding device, max. batch diameter of 200 mm (7.8 inches)

**33号卷取机构**  
摩擦传动的卷取机构，布匹喂入装置，最大卷装直径为200 mm (7.8英寸)



**No. 29A**  
Batching device for fine elastic fabrics with central drive, driven by geared motor, potentiometer regulation, spreading roller, relaxation device, max. batch diameter of 762 mm (30 inches)

**No. 29A 号卷取机构**  
轴心传动的卷取机构，适用于风格细腻弹力面料，由电机传动，电位器调节，扩布辊，松弛装置，最大卷取直径为762 mm (30英寸)

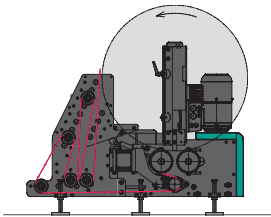


**No. 34B / 34E**  
Batching device for rigid fabrics with friction drive, driven by geared motor, regulation to match the stitch courses

**For 34E:** spreading roller, fabric edge unrolling appliance  
**For 34B:** deflection roller, max. batch diameter of 914 mm (36 inches)

**34B / 34E 号卷取机构**  
摩擦传动的卷取机构，适用于无弹面料，由电机传动，根据线圈密度大小进行调节

**34E:** 扩布辊，防布面卷边装置  
**34B:** 导布辊，最大卷装直径为914 mm (36英寸)



**No. 34A, 34A (E)**  
Batching device for elastic fabrics with friction drive, driven by geared motor, regulation to match the stitch courses, relaxation device

**For 34A:** spreading roller, fabric edge unrolling appliance, relaxing zone  
**For 34A (E):** deflection roller, max. batch diameter of 711 mm (28 inches)

**34A, 34A (E) 号卷取机构**  
摩擦传动的卷取机构，适用于弹力面料，由电机传动，根据线圈密度大小进行调节，松弛装置

**34A:** 扩布辊，防布面卷边装置，松弛区  
**34A (E):** 导布辊，最大卷装直径为711 mm (28英寸)

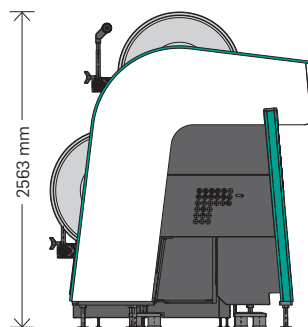
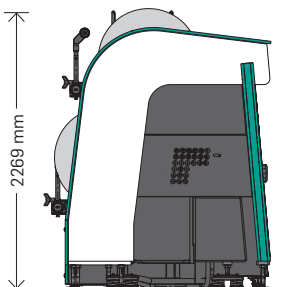
## Dimensions and warp beam support

### 尺寸和经轴架

#### Height and depth 高度和纵深

2 × 812 mm (32") Ø

2 × 1016 mm (40") Ø



← No. 34A, 34A (E) = 2261 mm →  
← No. 34B, 34E = 2261 mm →

← No. 34A, 34A (E) = 2395 mm →  
← No. 34B, 34E = 2395 mm →

#### Width 宽度

Working width 工作门幅	Total width 机器总宽 (不含电柜)
130 inches (134 inches)	5300 mm
180 inches (186 inches)	6700 mm
210 inches (218 inches)	7600 mm

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# KARL MAYER Worldwide



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