

# YJHKS4M-CF

最新开发

高速电脑毛巾经编机(碳素纤维型) 136/156"/186"/198"/220"

HIGH SPEED WARP KNITTING MACHINE FOR TOWEL—(CARBON FIBER MATERIAL)



## (一) 主要技术参数

Main Data

机型 model	YJHKS4M-CF-136	YJHKS4M-CF-186	YJHKS4M-CF-198	YJHKS4M-CF-220
针型 needle	复合型槽针 compound groove needle			
机号 needle number	E24			
机幅 mm width	3454.4(136")	4724.4(186")	5029(198")	5088(220")
梳棒数 guide bar	4把 4pcs			
最高编织速度 max speed (rpm)	1500	1400		1350
换棒机构 moving system	凸轮凸轮换棒装置或电子梳棒换棒控制系统 (EL) N type pattern cam or EL electronic control system			
送经系统 let-off system	EBA电子送经或EBC电子送经 EBC or EBA electronic let-off system			
牵拉机构 mechanism	1. 凸轮变速罗拉牵拉装置 Cam type speed changeable by 4 roller draw-off 2. EBA型配套的EWA电子牵拉装置 EWA electronic draw-off suitable for EBA 3. EBC型配套的EAC电子牵拉装置 EAC electronic draw-off suitable for EBC			
卷布装置 take-up system	电子刷毛卷取 Electronic brushing take-up			
盒头规格 beam spec	φ535 × 535(φ21" × 21"), φ765 × 535(φ30" × 21")			
主电机功率 main motor power	5.5kw	5.5kw		7.5kw
送经装置电机功率 let-off motor power		4-1.9kW/1.9kW		
电子牵拉装置电机功率 electronic draw-off motor power		1.9kW		
慢动电机功率 slow moving motor		0.75kw		
刷毛装置电机功率 brushing motor power	1.9kW	1.9kW		20W
齿轮轴连接润滑形式 Gearshaft connector rod lubrication	主动加压润滑及油循环恒温控制系统 Initiative pressing lubricate and oil circulation constant temperature control system			
主机重量 weight	800KGS	800KGS		900KGS
机幅外形尺寸 (不含盒头) overall size (not including beam)	Length:5260mm Length:5770mm Length:5430mm	Width:2070mm Width:2070mm Width:2070mm	Height:2550mm Height:2550mm Height:2550mm	



碳素纤维针床 Carbon fiber bed 电子牵拉装置(选装) Servo electronic draw-off 油压报警装置 Oil pressure warning device 电子送经装置 Electronic let-off device

## (二) 用途:

适用于经纶、涤纶、涤纶长丝、棉纱、超细纤维等编织生产单面或双面毛圈织物。织物特点是毛圈根在编链底布上,不会抽丝,裁剪时不易脱落散乱,布面柔软平整,毛圈高度均匀,铺伏与包覆性能较好。产品用途广泛,可用作清洁用纺织品,医疗用纺织品,成型毛巾,海滩浴和休闲服,浴巾,浴巾,沙发巾,床单,床罩,窗帘等。带电子梳棒换棒控制系统(EL)的本机,打破了△轮定盘对织物完全组织编程列数的严格要求,实现了织物完全组织编程列数的任意变换,极大的满足了大型图案完全组织编程列数的大数据要求,在同一台机上可以同时生产单、双面毛圈织物,间隔毛圈织物和多种不同图案的毛圈织物,实现了在机器正常运行过程中的产品自动转换,该机集多功能于一体,极大地满足了用户对一机多用的要求。

## (三) 成圈机构:

1. 碳纤维复合针床、梳棒床和沉降片床均采用大截面、密度小的碳纤维复合针床,有效地减轻运动机构的运动惯量和动力负荷,增加各针床的刚度。
2. 同步铁制针床采用碳纤维复合针床,新材料的运用使机器温度适应范围更广,更节能,并确保设备高速稳定编织。
3. 成圈机构采用计算机模拟运动配合,梳棒导纱针为小针头针,优化了机器运动曲线,使机器的成圈运动配合更趋合理。
4. 曲轴连杆机构采用计算机优化设计,曲轴的动平衡处理,使得机器的噪声降低,震动减小,提高了机器的使用寿命。
5. 送经系统采用EBC多速电子送经,使得机器操作更简单;自动油路润滑系统采用主动加压润滑及油循环恒温控制,确保机器平稳安全运行,有效降低了整机能耗。
6. 刷毛车采用伺服电机通过减速器带动,刷毛辊采用大截面空心管(φ150mm),有效减小了还有起毛时的抖动现象。

## Application:

It adopts nylon, acrylic, polyester filament yarn, cotton, superfine fiber etc to knit single-faced and two-faced terry fabric. Terry fabric that takes root in the base cloth of pillar stitch would not be laddering. The yarn will not drop when cut, the cloth surface is soft and smooth, the height of terry fabric is uniform, it is good for bedding and covering. The product is used widely as clean fabric, medical fabric, bathrobe, bath towel, sofa towel, bed sheets, bedspread, curtain, etc. With electronic moving control system (EL), the machine can make any change in quantity of horizontal and row, so it can make the large design mosquitoes fabric on the same machine can produce single, double looped fabric, interval looped fabric and a variety of different patterns of looped fabric. The machine can make automatic conversion in products when running, greatly satisfy the requirement for multi usage.

## Terry feature:

1. By using light but stable hollow-section magnesium alloy materials for all knitting elements, to reduce the weighting load and moment inertia of knitting elements and increase the rigidity of needle bars, to guarantee machine running more smoothly and steadily.
2. All needle beds apply carbon fiber material which lets machine in variable temperature and energy saving and ensure the stable operation in high speed.
3. Knitting mechanism adopts computer animation simulated motion, guide bar needle uses small needle head, it optimizes knitting curves that make knitting motion more reasonable.
4. Crankshaft connection rod system adopts computer optimization design, dynamic balance of crankshaft make noise lower and shake lighter, it is efficient to improve service life.
5. The machine adopts EBC multispeed electronic let-off system which makes it easy to operate and control. Oil tank lubrication system for crankshaft adopts initiative pressing lubricate and oil circulation constant temperature control which makes operation more stable and safe and reduces the consumption efficiently.
6. Brushing device adopts servo motor, it is driven by reducer. Brushing roller adopts large sectional hollow pipe(φ150mm) which reduces the shake when the gray fabric terrys efficiently.

