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高效高品质HFGA158型分批整经机  
HFGA158 Direct warming machine

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HFGA158 Direct Warming Machine

A warper with high quality and high efficiency





华方科技

高效高品质HFGA158型分批整经机

HFGA158 Direct Warping Machine

A warper with high quality and high efficiency



### HFGA158 Direct Warping Machine

A warper with high quality and high efficiency  
高效高品质HFGA158型分批整经机

#### 经轴夹头

40°内锥啮合, 自行对中, 保证高速运行, 安全制动。

#### 越程罗拉及吹风装置

保证纱线平均均匀分布在经轴上, 清除纤维杂质。

#### 压纱辊装置

压纱辊电动-液压控制, 在300-6000牛范围内可调。

#### 制动装置

两侧电动-液压控制碟式刹车, 可对高速运行的经轴迅速制动。导纱辊及压纱辊上同样附有制动器, 保证同时制动。

#### Warp beam chucks

40°inner cone engagement and self-centering ensure high-speed running and security braking.

#### Overrun roller and blowing device

The overrun roller ensures the yarn winding on the beam parallel and uniform. The blowing device makes the expansion reed clean.

#### Pressing roller device

The pressing force is electro-hydraulic controlled and adjustable between 200-6000N.

#### Braking device

The electro-hydraulic controlled disc brakes on both sides, ensure brake for the high-speed running beam rapidly. Brakes on guide roller and pressing roller ensure the synchronized braking.



经轴夹头 Beaming chucks



吹气装置 Blowing device



压纱辊装置 Pressure roller device



制动装置 Braking device

#### 电子精确计长

通过安装在压纱辊的编码器, 可精确计算纱线长度, 保证各批次经轴纱线长度相等。

#### X-Y寸动

伸缩臂可通过电机实现上下及左右各方向的移动, 防止纱线切断及延长切片的使用寿命。

#### 可调钢筘

通过电机实现箱对中, 箱片可任意伸长及缩短, 方便生产操作。

#### 恒阻尼装置

由两个通过液压控制的碟刹, 以恒定的阻尼作用于压纱辊, 保持恒定的压纱张力。

#### Precise electronic meter counting

Through the encoder fixed on the pressure roller, the yarn length can be calculated precisely, and ensure the same length of different batches.

#### X-Y axis inching

Expansion needs move along X and Y axis by motor control. Prevent the yarn being cut off and increasing the service life of expansion reed.

#### Adjustable expansion reed

Centering by motor control and random elongation & shorten of the expansion reeds make the operating convenient.

#### Constant damping device

Two hydraulic controlled disc brakes act the constant damping on the pressing roller and ensure the constant pressing force



电子计长 Electronic length counting



X-Y寸动 X-Y axis inching



可调钢筘 Adjustable expansion reed



恒阻尼装置 Constant damping device

精益求精 追求卓越 03/04



华方科技

高效高品质HFGA158型分批整经机

HFGA158 Direct Warping Machine

A warper with high quality and high efficiency



### 防尘保护大师 Dust proof and protecting master

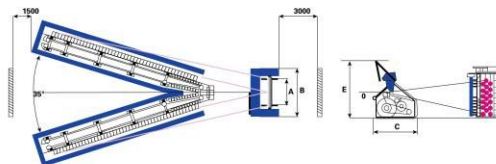


#### 防尘保护大师

防止飞絮气流被人体吸入, 避免人体任何部位被纱线卷入, 保护操作人员健康及人身安全。

Dust proof and body protection master  
Prevent flying entering into operator's body. Avoid any part of body wound by the yarn. Ensure the operator healthy and safe.

您的安全是我们的责任, 您的质量是我们的追求, 为您创造价值是我们的宗旨!  
Your safety is our responsibility, your quality is our ambition, create value for you is our tenet!



### 人机交流系统

- 可视化输入输出方案, 工艺信息简便, 红外线触控式屏幕操作
- 真彩色显示设备
- 显示工序实际值和生产资料
- 菜单化数据输入, 防止错误输入的可信度检查
- 自动计算过程参数, 并显示当前工艺参数信息
- 显示故障及原因, 提示排除方法



### HMI 人机交流系统

#### HMI

- Visualized program input and output, further simplified process information
- Real color display device
- Display current production data and production information
- Menu-type data input, reliability checking prevents input-error
- Automatic calculate procedure parameters, display live process parameters
- Display errors and causes, provide solutions of removing errors

### 技术参数 Technical data

机器		Machine	
最大速度	1200m/min	Max. speed	1200m/min
点动速度	<20m/min	Inching speed	<20m/min
最大张力	450N	Max. tension	450N
最大制动力矩	16000Nm	Max. braking torque	16000Nm
主电机功率	15Kw	Motor power	15Kw
有效幅宽 (mm)	1400 1600 1800 2000 2200 (选配)	Work width (mm)	1400 1600 1800 2000 2200 (for option)

机器尺寸		Machine dimension	
宽 (mm) B	有效幅宽 (A) +1900	Width (mm) B	Work width (A) +1900
深 (mm) C	2120	Depth (mm) C	2120
高 (mm) E	1800(包括档风罩)	Height (mm) E	1800 (including wind shield)

可生产纱线	Suitable for
天然纤维	Natural fibers
合成纤维	Synthetic yarns
复合纱	Composite yarns
不可生产纱线	Not suitable for
石棉纤维	Asbestos fiber
碳纤维	Carbon fiber
玻璃纤维	Glass fiber

精益求精 追求卓越 03/06

高质量的保证，完美的张力设计，保持经纱片全长和宽度上张力恒定  
Ensurance of high quality, perfect design for tension. Constant thread tension over the entire length and width of the warp.



**高质量**

对经纱质量要求低  
捻纱张力较低  
经纱张力前后保持一致  
不会产生松纱

**高产能**

实际速度可达1200 m/min  
抄线自由运动  
换筒子或换批时无需清头  
清理和维护费用较低  
筒子易于插装

**应用范围广**

筒子框架自动旋转  
经纱容易装卸到经纱刺车片中  
从粗支到细支的短纤维纱  
单纱和倍捻纱  
可使用任意规格的筒子

**Highest quality**

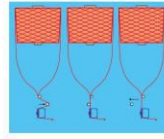
Little stress on the threads  
Low thread tension  
Uniform thread tension from back to front  
No snarling

**High productivity**

Speed in practice of up to 1200 m/min  
Free yarn route  
No notting when changing package or lot  
Reduced cleaning and maintenance outlay  
Simple package loading  
Automatic rotation of package frames  
Simple placing of the threads in the stop lensioner

**Universal application**

Coarse to the finest staple fibre yarns  
Single and doubled yarns  
Optional package formats usable

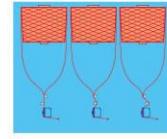


**不会产生松纱**

自动张力器可防止会产生机器停机的松纱现象。而张力器可根据整经过程中的不同阶段自动调整到正确位置。

**No snarling**

An automatic pretensioner prevents snarling which can occur on stopping the machine.  
The pretensioner automatically takes up the correct position depending on the phase in the warping process.



**纱线张力得以平衡**

张力器可自动平衡从最近到最前端纱线不同长度产生的张力差别。调整张力器的包围角得以补偿。

**Equalized thread tension**

The pretensioner automatically compensate the thread tension differences occurring due to the variation in thread length from the rear-most to foremost package. The automatic pretensioner is set so that a corresponding warp compensates the differences in tension between the front and rear threads.

**用于高产能低张力整经筒子架的纱线张力器**

Thread tensioner for warping creels with high productivity and low thread tension



**高产能**

应用范围广  
高速运行时纱线张力较低  
快速识别断经位置

**High productivity**

Wide application range  
Low thread tensions for high speeds  
End breaks are rapidly located

**高质量**

停机时不会松纱或飞纱  
按下按钮可激活纱线监测器  
多次断纱警告显示  
不断显示纱线数目  
断经时不会丢纱

**Highest quality**

No loose ends shooting forwards when stopping  
Stop motions are self-activated by pushbutton  
Warning display after repeated breaks on the same end  
Continuous display of number of running ends  
No threads lost at the end break



**高速度，低拉伸力**

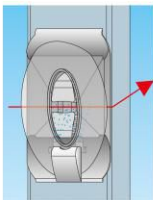
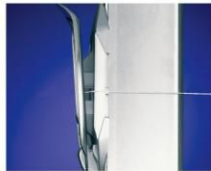
启动瞬间，张力器即打开压纱盘。高速运行时，负载也很小。

High speed with low thread tensioner force  
The jaws open automatically shortly after the start. The tensile load on the thread is low, even at high beaming speed.

**整经轴没有缺纱**

在张力器中内置监测器，当纱线停止时，该装置在几毫秒内做出反应，因此不会丢纱。

Back beams with no missing ends  
Monitors in the tensioner will respond in milliseconds once the thread stop, so that no ends are lost.



**内置独立吹气装置**

在每个张力器中均有微小的喷嘴，以一定的时间间隔喷出压缩空气，使张力器周围环境保持清洁。

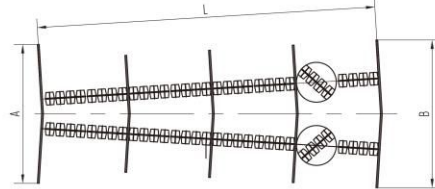
Integrated individual blow-off  
Each tensioner contains fine air jets which keep the tensioner zone clean during beaming by intermitten pulses of air.

**小V型回转式筒子架 Turnover V creel**

锭距 Pitch	560			640			720		
	A	B	L	A	B	L	A	B	L
250X250	4494	4504	9080	4494	4659	10350	4494	4814	11620
270X270	4633	4729	9780	4633	4896	11150	4633	5064	9780
300X300	4633	4858	10830	4633	5043	12350	4633	5230	13870

锭距 Pitch	480			528			576			624			672		
	A	B	L	A	B	L	A	B	L	A	B	L	A	B	L
350X350	4693	5352	14390	4693	5520	15810	4693	5699	17230	4693	5873	19650	4693	6046	20070



压片二柱式张力器  
2-pillar tensioner



吊环式自动补偿张力器  
Ring type tensioner



三柱式磁悬浮张力器 (专利产品)  
3-pillar magnetic suspension tensioner (patent product)



三柱式张力器  
3-pillar tensioner