

CATALOGUE

Flax wet spinning line

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1. FX111ZC Hackling with Auto Spreader Machine

Introduction

FX111ZC Hackling with Auto Spreader Machine is a new process device to have best fiber hackle and manufacture sliver composed by FX111 Hackling machine and FX212 Auto Spreader Machine, which is newly developed by our company. There are 8 reduction gears and 2 servo motor installed in the complete machine. By adopting such modern control methods as PLC, inverter and touch screen, mechanical transmission system and pneumatic system shall be integrated and process actions shall be controlled to realize automatic and continuous operations from flax fiber to sliver, shorten original process route and enjoy such features as high electromechanical integration, convenient adjustment for hackle/slivering parameters, high efficiency and high quality, worker-saving and time-saving (5-7 person is reduced each shift), low labor intensity and low maintenance and management cost, which is the ideal new best fiber carding process device to replace hackling and sliver process. Furthermore, internationally advanced technology is adopted for the equipment.



Main Technical Parameters

Hackle lifting height: 650 mm (Max)

Running speed of hackle clamp: 7~12 times/min. (Stepless adjustable)

Running speed of needle bar: 20~45 m/min (Stepless adjustable)

Numbers of hackles process: 18

Drawing range: 17.61 ~ 21.41

Sliver specification: 15 ~ 45 g/m

Output speed: 56~79m/min. (Stepless adjustable)

Equipment production capacity: 60~110 kg/h (sliver)

Total installed power: 20.65KW (Actual power consumption: 12.5KW)

Dimension: Hackling Machine: 8400 (L) × 4520 (W) × 3230 (H) mm

Auto Spreader Machine: 4550 (L) × 1600 (W) × 2530 (H) mm

2. FX280A~FX284A flax Drawing Frame

Introduction

FX280A~FX284A Flax Drawing Frame is a new flax drawing frame newly developed by our company based on the digestion and absorption of advanced technologies both at domestic and overseas. For the complete machine, no change gear exists and it is composed by 2 servo motors and mechanical system driven and 1 reducer. By adopting such modern control methods as PLC, inverter and touch screen, it can not only integrate with pneumatic system but also enjoy such features as high electromechanical integration, convenient adjustment for carding/slivering parameters, high efficiency and high quality, low labor intensity and low maintenance and management cost, which is the ideal process device to replace original FX280~FX284 flax drawing frame. Furthermore, internationally advanced technology is adopted for the equipment.



Main Technical Parameters

	FX280A	FX281A	FX282A	FX283A	FX284A
Pitch number (General configuration)	3	3	4	5	6
Pitch (mm)	1180	1104	1003	953	928
Total drawing gauge (mm)	915	712	660	610	508
Numbers of sliver feed per pitch	6	8	8	8	8
Composite number of sliver	6	8	8	8	8 or 4
Drawing range	6.5~10.5	8~12	8~12	8~12	8~12
Max. feed weight (g/m)	60	50	40	30	20
Min. output weight (g/m)	17	11	7.3	4.9/2.45	1.6/0.8
Output speed of sliver (m/min)	16~24	17~25	17~25	19~26	17~24
Sliver can specification (mm)	φ500X900	φ500X900	φ500X900	φ400X900	φ400X900
Machine dimensions (mm*mm)	4290X492 0	5250X405 0	5140X475 0	5500X534 0	6300X441 0

3. FX412 flax Roving Frame

Introduction

FX412 Flax Roving Frame is a new generation of flax roving frame newly developed by our company through years of practices. The machine has abandoned differential mechanism, cone drum forming mechanism and lifting and reversing mechanism installed on conventional roving frame. For the transmission system of the complete machine, no change gear exists and it is driven by 5 independent servo motors. The most advanced five-shaft link and closed-loop control technology shall be adopted to make the machine more simple and efficient. In addition, the machine enjoys such features as high electromechanical integration, convenient adjustment for carding/silvering forming parameters, high efficiency and high quality, low labor intensity and low maintenance and management cost, which is the ideal process device to replace conventional flax roving frame. Furthermore, internationally advanced technology is adopted for the equipment.



Main Technical Parameters

Pitch number per set: 15

Number of spindle per pitch: 8

Number of spindle per set: 120

Numbers suitable for spinning: 1.2~3.8Nm

Drawing range: 8.5~12.5

Total drawing gauge: 459mm

Spindle speed range: 650~900r/min

Output speed: 14~31m/min

Twist range: 29~42

Lifting stroke: 300mm (Max)

Total installed power: 18.1 KW (Actual power consumption: 10KW)

Dimension: 15220 (L) × 3660 (W) mm

4. FX516 Flax Wet Spinning Frame

Introduction

FX516 Flax Wet spinning Frame is a new generation of flax spinning frame newly developed by our company. 5 servo motors and 1 common motor are adopted for the transmission system of the machine to replace conventional transmission system with low efficiency. By adopting such modern control methods as PLC, inverter and touch screen, running parameters and process parameters of the machine can be set and adjusted conveniently and various textured yarns can be spun. For the drawing mechanism of the machine, original sliding bearing mechanism shall be replaced by needle bearing mechanism with high corrosion resistance to make the machine more energy-saving and efficient and put an end to oil pollution yarns completely. In addition, the machine enjoys such features as high electromechanical integration, convenient adjustment for drawing forming parameters, high efficiency and high quality, low labor intensity and low maintenance and management cost, which is the ideal process device to replace conventional flax spinning frame. Furthermore, internationally advanced technology is adopted for the equipment.

Outstanding Features

1. Production efficiency is greatly improved;
2. The spinning quality is constant and the product quality is greatly improved;
3. The running end-breakage rate is less than 2%, and the end-retention rate after doffing is more than 95%;
4. Save electric energy significantly;



Main Technical Parameters

Spindle gauge	88mm
Spindle number	256,320,384
Ring type	PG2-6274
Spindle type	D3502
Spindle speed	5000-10000rpm
Spindle drive	variable frequency speed regulation 1.5 kW circular spindle belt roller drive
Yarn counts	5.5-54Nm
Total draft ratio	12-30
Draft type	Rocker pressurized electronic drafting
Lifting form	electronic lifting
Lifting range	210mm
Twist direction	Z twist
Twists	380-800T/m
Tube height	235 mm
Outer size	12565 (L) x 1250 (W) x 2560(H) mm
Machine weight	8.5t(256ingots)

5. FX151D FLAX JOINT CARDING MACHINE

Main Technical Parameters

Overall size of machine: 6260L × 3280W × 2500H mm

Complete machine weight: 14tons

Size of sliver can: 400-500D × 900H mm

Cylinder diameter (not include metal card clothing): 1540mm

Feed roller diameter (not include needles): 51mm

Working doffer diameter (not include needle plate): 178mm

Clear doffer diameter (not include needle plate): 203mm

Stripping doffer diameter (not include needle plate): 355mm

Draft range of carding area: 10.5-26.4

Draft range of draft head: 1.95-3.90

Sliver out speed: 8.25-97.5m/min

Weight of sliver: 14-36g/m

Ventilation consumption: 7050m³ /h

Made fiber utilization: 95%

Production capacity: 50-65Kg/h

Installed power: 7.5KW