

## **HORIZONTAL FULLY AUTO FINGER JOINT SYSTEM-**SINGLE CHAIN TYPE F1 6" x 20 ft Model: FAH



(Machine's lay-out / footprint can to hange according to customer demand)



EX-FACTORY INC. 1805 Sardis Road North Charlotte, NC 28270 USA Tel: +1 704-841-2001 Fax: +1 704-841-1200 www.exfactory.com

## **TECHNICAL SPECIFICATIONS**

#### Technical data of tour line

Timber working length(min-max) L = 150MM ~ 1000MM Timber length to be processed must be at least 50% longer than the timber width to be processed. (Example; if the material width is 6" then the length must be 50% more as 9" or longer) **Timber working thickness** T = 17MM ~ 60MM W = 25MM ~ 160MM Timber working width L = 3000MM ~ 6200MM Timber out-feed length **PVAC** Glue type to be used **Timber species** SOFTWOOD / HARDWOOD Timber moisture 8~12% Infeed qualities Timber must be processed via four sides moulder machine (tolerance: ±0.2mm) and wood needs 90 degrees right angle, four planning clear, straight.

Maintenance and cleaning please refer the operating manual.

## TO BE PROVIDED LOCALLY

Electric power supply to switch cabinet Constant voltage (voltage deviations max.: 5%) Temperature range for computer control not exceeding 35°C Maximum relative air humidity for control system computer 65% Dust exhaust system: 6,800 cfm at low pressure of 0.18 **psi** 

(V=30M/S at a low pressure of 12M BAR)

Compressed air connection to plant units: 80 to 95 psi

 $(6^{8} \text{ KG/CM}^{2} - 8 \text{BAR})$ 

Cable, collecting duct Hydraulic oil Skilled operating and maintenance personnel Noise control Lighted working environment Computer cable if machine be with monitoring

 $\swarrow$  Dust Collecting : 4" \* 3PCS, 8 \* 4PCS

☆ Total electricity demand: 65 KW, 86 HP

☆ Compressor request: 30 HP + 100 LITER AIR TANK

## CAPACITY

Working time 480 MIN/SHIFT **Finger length** MADE BY ORDER Average infeed length at the finger jointing line 500 MM 50\*100 MM Average timber cross section Number of timber pieces per shaper table (horizontal finger) (MAX) 150 PCS/MIN Capacity of the press **8 WORKING PIECES/MIN** \*\* The data is the max capacity for one-section cutting, the capacity will be reduced while multi-section cutting. \*\* Example; 17 ft will be the maximum assembly production capacity, but if we do two of the 8.5 ft length pcs, it will lower down the capacity due to the extra cutting processing

Pressing length 6.2 Meters Rate of utilization 80%

## **CAPACITIES OF THE COMPONENT**

#### **CAPACITY OF THE SHAPER**

#### (HORIZONTAL FINGER JOINTING/50\*100)

120 PCS/MIN X 500 MM AVERAGE INFEED LENGTH\*\*/1000MM X 480 MIN /SHIFT X 0.8 RATE OF UTILIZATION =23,040 M /SHIFT

#### CAPACITY OF THE PRESS(6M)

**8 PIECES/MIN** 

X 6.2 M / MIN

X 480 MIN /SHIFT

X 0.8 RATE OF UTILIZATION=19,046 M /SHIFT

## TOTAL CAPACITIES OF THE LINE

#### **CAPACITY OF THE SHAPER**

#### **HORIZONTAL FINGER JOINTING/50\*100**

23040 M /SHIFT 48.00 M/MIN 115.2 M<sup>3</sup>

#### **CAPACITY OF THE PRESS(6M)**

19046 M /SHIFT 39.67 M/MIN 95.23 M<sup>3</sup>

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#### A MECHANICAL SPECIFICATIONS: FEEDING SYSTEM

Working size intermittence feeding motor

#### **C1 MECHANICAL SPECIFICATIONS: FEEDING SYSTEM**

Working size main feeding chain servo drive motor working feeding speed feeding motor

#### **C2 MECHANICAL SPECIFICATIONS: SHAPING DEVICE(R)**

Working size Motor of finger spindle Spindle size OD of finger cutter Finger spindle RPM Power of Cut-off saw Cut-off saw blade size

Cut-off saw Speed Power of scoring saw Scoring saw Scoring saw spindle Press device up/down drive motor \*1PCS

Working size

Spindle size

Motor of finger spindle

OD of finger cutter

**Finger spindle RPM** 

Size, cut-off saw

RPM, cut-off saw

Power of scoring saw Size, scoring saw

Power of Cut-off saw

L=150 ~ **1000** T=17-60 W=25-**160** 2HP + 1:25 Gear Box

L=150 ~ **1000** T=17-60 W=25-**160** 20KW + 1: 40 Gear Box 120-150 pcs/min 1HP + 1: 40 Gear Box

L=150 ~ 1000 T=17-60 W=25-160 25HP \*1 PCS ID50(70)mm OD250mm (without finger cutter) 4600RPM at 50Hz/5500 RPM at 60Hz 15HP \*1 PCS 305mm x 80T x 5mm (with saw blade) 290mm x 40T x 5mm (with saw blade) 4300rpm/min 3HP \*1 PCS 180mm x 50T x 5mm (with saw blade) 4200 rpm/min 0.5HP + 1: 10 Gear Box

#### **C3 MECHANICAL SPECIFICATIONS: SHAPING DEVICE(L)**

L=150 ~ 1000 T=17-60 W=25-160 25HP \*1 PCS Diameter 50 or70 mm OD250mm (without finger cutter) 4600RPM at 50Hz/5500 RPM at 60Hz 15HP \*1 PCS 305mm x 80T x 5mm (with saw blade) 290mm x 40T x 5mm (with saw blade) 4300rpm/min 3HP \*2 PCS

180mm x 50T x 5mm (with saw blade)

RPM, scoring saw spindle press device up/down drive motor Glue Applier Standard glue height 4200rpm/min 0.5HP + 1: 10 Gear Box \*1PCS GLUE COMB H=150mm. Pitch 3.8mm. L=10mm-12(Special size made by order)

#### **K MECHANICAL SPECIFICATIONS: OUT-FEED**

Working size Speed Power Vacuum device – blower

L=150-900 T=17-60 W=25-150 70M/min 3HP \* 1pcs 5HP (3" Vacuum port)

#### **G MECHANICAL SPECIFICATIONS: PRE-JOINT**

Working size Feeding chain drive power In-feed Inverter Chain type Feeding speed L=150-900 T=17-60 W=25-150 3HP\*2pcs 7.5HP \* 1pcs Double chain - flat type 10M~90M / min

#### H MECHANICAL SPECIFICATIONS:6METER ASSEMBLER

Working dimension Power of upper & lower roller In-feed Inverter In-feed speed Cut-off saw, power Cut-off dimensions Cut-off saw, RPM Hydraulic power Capacity /min W=20mm~160mm. H=15mm~75mm L=6000mm 2HP \* 2pcs 7.5HP \* 1pcs 10M~70M / min 5HP \* 1pcs 355MM x 120T x 25.4MM \* 1pcs 2850 rpm/min 5HP \* 1pcs (High speed oil tank) 1-8 PCS/min (TOP SPEED)

## Optional 1 SAT-FD-60/4S 4 Out-hanging saw with 4 Saws



Working dimension L=6200mm Power of Cut-off saw 3HP \* 4 Pcs Size, cut-off saw 405MM x 120T x 3.2mm\*25.4mm RPM, cut-off saw 2850rpm Quantity of out-hanging saw 4 Saws

