



P.O. DRAWER 998 | HWY 243 INDUSTRIAL PARK | RUSSELLVILLE, AL 35653

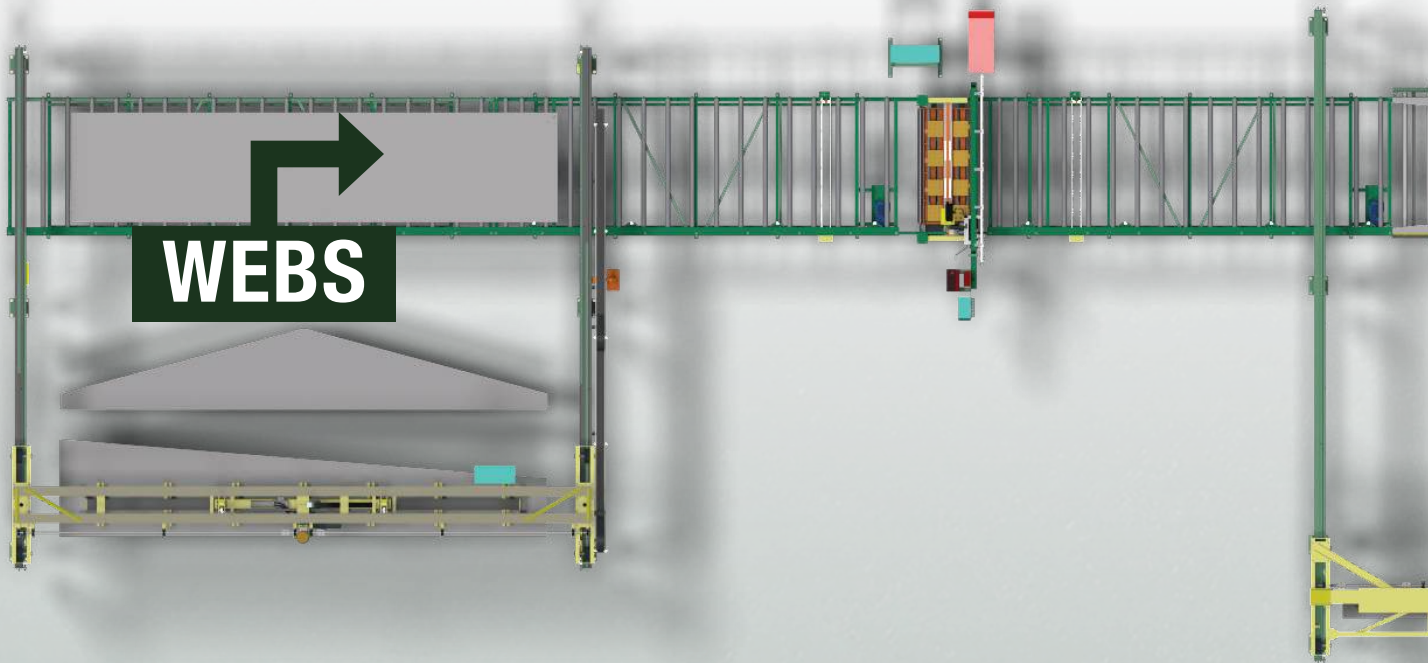
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Complete Line of Machines for Rigid Frame Fabrication



FRANKLIN... building machines
that make your buildings better.



FRANKLIN WS-72 WEB SPLICE STATION



The **Franklin "20/30"** gantry system with dual-row magnets provides web pick and placement at the WS-72 web splice station. Due to various shapes and storage methods, the gantry is controlled manually by a 4-position joystick control.



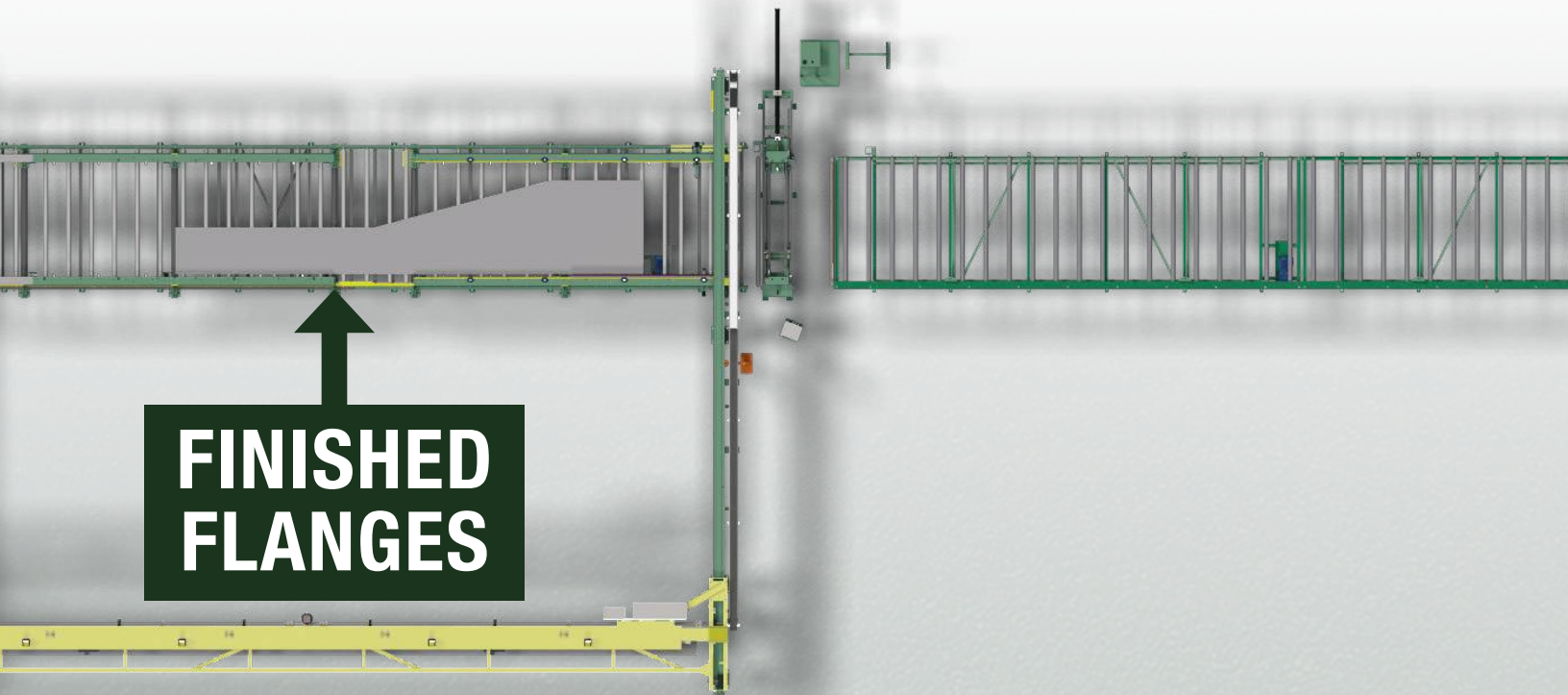
- 72" maximum web width
- Vacuum recovery system
- 1/2" web thickness
- Water-cooled back-up bar. (water chiller optional)
- AC/DC Power Wave
- Material pull-down magnets
- Operators station with MAX-SA 10 control



The **WS-72 Control Station** provides the operator control over all conveyors, hydraulic web squaring, and weld speed control. The Lincoln MAX-SA 10 Control is integrated for easy access.



The **WS-72 Web Splice Station** incorporates "pull down" type magnets. The unique design provides adequate power for sheets up to 1/2" while providing the operator an easy-to-access weld area without top clamps.



FRANKLIN TS-72 WEB TACK STATION



The **Franklin “40” Series CNC Gantry** provides automated pick-and-place loading of finished flanges from the CNC Flange Line System.



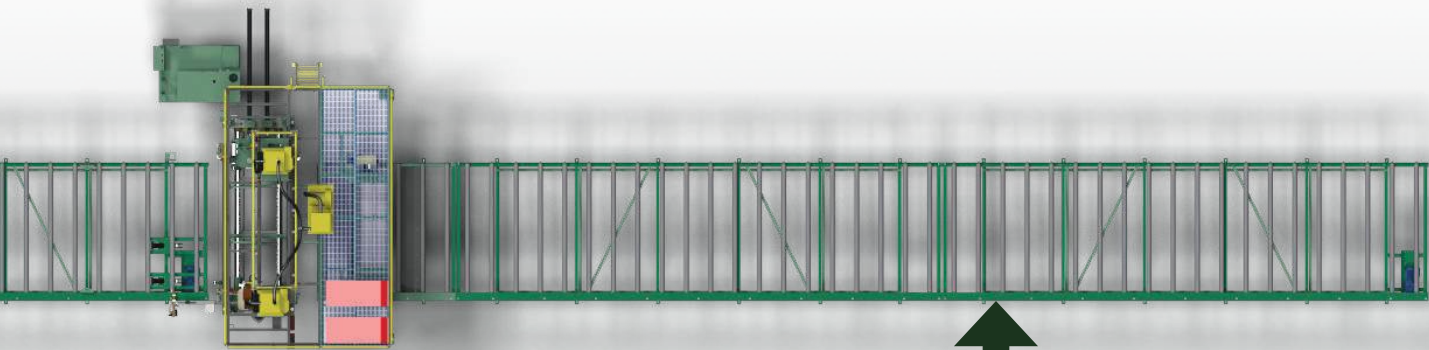
The **TS-72** tack-station system provides hydraulic clamping that pre-fixtures the leading edge of the prefabricated beam.



The **Franklin “60” Series** gantries provide up to 60 ft. of length capacity and 75 ft. of travel storage.



The pass-thru design of the horizontal welding system allows a continuous flow of beam production.



**COMPLETED
FRAMES**

FRANKLIN PTW-72 PULL-THRU WELDER



The **Franklin PTW-72** horizontal pull-thru welding system is a highly engineered submerged-arc system.

- 72" web capacity
- PowerWave 1000 twin-wire with MAX-SA 10 controls
- 20" x 1" flange capacity (12" x 1 1/2" non-bending)
- Complete flux recovery
- Maximum weight 300 lbs/ft
- Wire dispensing units (4 each supplied by customer)
- Twin wire feed



The **PTW-72** auto-control system provides the operator various control over the weld sequence. The "PLC" auto control provides an auto-sequence of repetitive machine operations.



The **PTW-72** can be provided with several customer requested options:

- Power brush cleaning
- De-cambering device (mechanical and preheat)
- 84" width capacity (PTW-84)
- Wire drum turn tables, de-reelers with various placements (optional)
- Over sized platform for overhead accessories



FRANKLIN WEB PLASMA CUTTING SYSTEM WITH MATERIAL HANDLING



The **Franklin Web Plasma Cutting System** is a combination of unique material handling and a high performance CNC plasma cutting machine. Raw sheets are automatically retrieved and loaded by a Programmable Gantry system. Each plate is loaded onto the infeed conveyor and squared by hydraulic pushers. The plates are then moved by the powered roller conveyor on the Driven Plasma Slat table. Once the webs or other parts are cut, the Driven Plasma slat table moves forward unloading the completed parts and skeleton.



Web Plate Infeed Conveyor

- Driven roller conveyor with AC/VF drives
- Hydraulic Datum pushers for squaring the loaded sheet
- Conveyor holds the next plate to be cut, while the previous sheet is being cut
- Conveyor is located directly under the gantry loading rails



The **CNC Plasma Cutting Machine** is a high-performance plasma cutting machine with brushless AC servo drives and planetary gear boxes providing positioning speed of 1500 IPM.



CNC Vacuum Loading Gantry

- Gantry is semi-automatic with touch screen control
- Bin locations are programmable by plate size and section
- Sheet sizes are optional from 20 – 60 ft. in length x 72" – 96" wide
- Vacuum lifter has material contact sensors and vacuum monitor for safe automatic pick and place operation



Web Plate Storage

- Raw sheets can be stored in programmable bin locations
- Storage depths up to 80 ft. travel
- Floor-mounted low rail on the material load end provides easy loading of heavy stacks direct to storage area
- The vacuum gantry can load up to two (2) plasma lines

CNC PLATE LINE WITH SERVO CARRIAGE FEED



Franklin PF196x20-CFD CNC Plate Fabricator is a dedicated plate line for producing connection plates and base plates. The material is moved and positioned by a Servo Carriage and attached to the trail end of the bar by a Hydraulic Gripper.



Hydraulic Gripper

- Jaw type gripper with harden teeth
- Replacement upper/lower jaws
- Self-contained hydraulic unit mounted on the carriage
- Rigid tube arm weldment



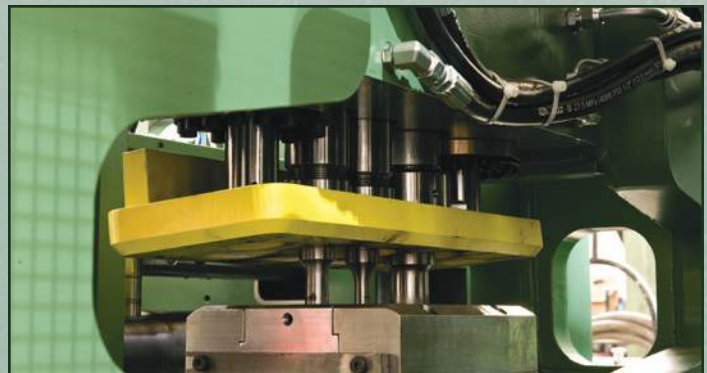
Servo Carriage With Rack and Pinion Drive

- Servo Carriage on a Precession 8" x 1.250 Track
- Extremely accurate scale type feedback for X-axis location
- Hydraulic gripper attaches directly to trail end of the bar
- Catrac cable carrier for electrical and airlines



Franklin Shear

425 tons of shearing capacity. Shear Tooling – 5/8" per foot fixed rake, 1 1/4" x 20" capacity



Triple-Gag Tooling

- 3 heat treated punch stems
- 3 lower die holders with slide out capability
- 10" ram assembly with 8 1/2" diameter chromed rod
- Outboard adjustable gibs for anti-deflection of upper gag block
- Automatic mist lubrication with air blast (for Punch Stems)

CNC FLANGE/PLATE LINE WITH PINCH ROLL FEED



The **Franklin BP5196x20** CNC Plate/Flange Line is a hi-production combination machine for both plate and flange fabrication.

- 196 ton punch
- Line speeds up to 225 ft / min
- Windows based CNC control
- 20" x 1.250" bar capacity
- 425 ton shear
- Triple-gag tooling (3 tools)



CNC Operator Interface

- Dual USB Ports
- Remote PC
- Integrated System Key Switch
- Integrated Touch Screen
- Dual Ethernet Ports
- Pedestal Mounted
- IP65 Rated Enclosure
- Integrated Keyboard
- 15" Color Monitor
- 20° to 60°C Temperature Rating
- Integrated Function Keys



Optional "Ink Jet Marking"

provides CNC control of part identification for flanges and plates. The identification mark is automatically defaulted from the CNC part file.



The Franklin auto-flange stacking system provides an efficient handling of hi-volume flange production. Each flange stack can be power transferred directly into the **TS-72 Track Station** gantry pickup zone.

The Franklin "4050 CNC"

gantry loading system provides a full auto-loading system for flange and plate production. All material bins are stored in the CNC control and are fully adjustable.



Weld splice station with top acting pneumatic clamps. The Franklin CNC control automatically detects the trailing end splice location within the flange line system.



Complete Weld Splice Station (optional)

- AC/DC 1000 amp Power Wave
- Flux Recovery
- Plasma Bevel and Precut for Step Flanges
- Smoke Recovery



Purlin Clip Machine

- Hi-speed feed
- 130 ton punch / 90 ton shear
- 4-hole and 2-hole tooling
- Produces a clip every 3 seconds



200 AMP Plasma (optional)

- Bevel head for lead and trail cuts
- Laser pointer for cut locations

FRANKLIN MANUFACTURING, INC., based in Russellville, AL, provides total solutions with its standard product line of CNC structural fabricating machines. With extensive experience in steel fabricating equipment, Franklin's CNC equipment is used in several markets worldwide including pre-engineered steel buildings, heavy structural fabrication, and joist fabrication. Franklin's philosophy for complete in-house responsibility of design, engineering, manufacturing, fabrication, CNC controls, software development, customer service, and installation is all-encompassed in its 400,000 square-foot facility.



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