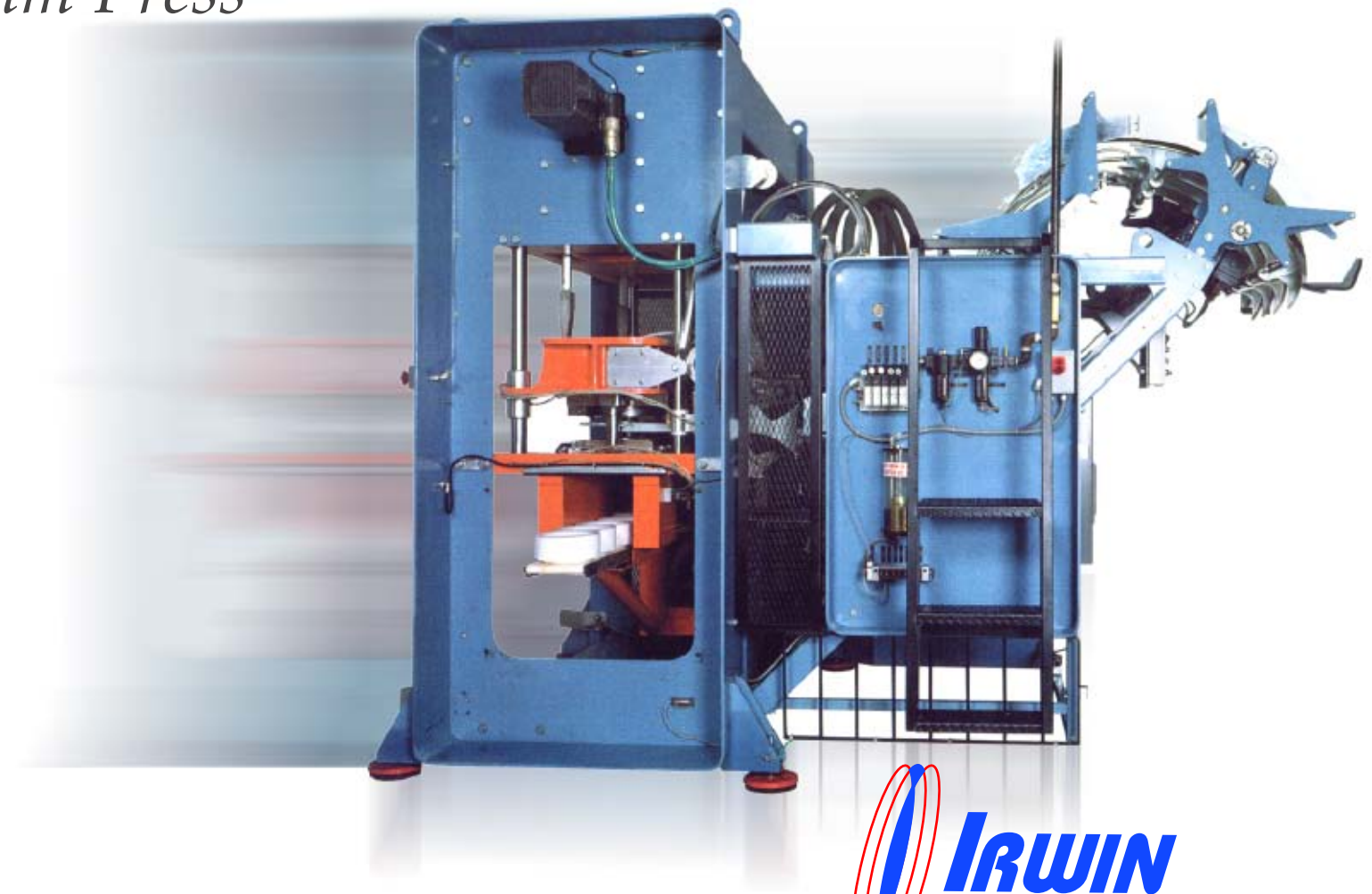
50 NT & VTS

Trim Press



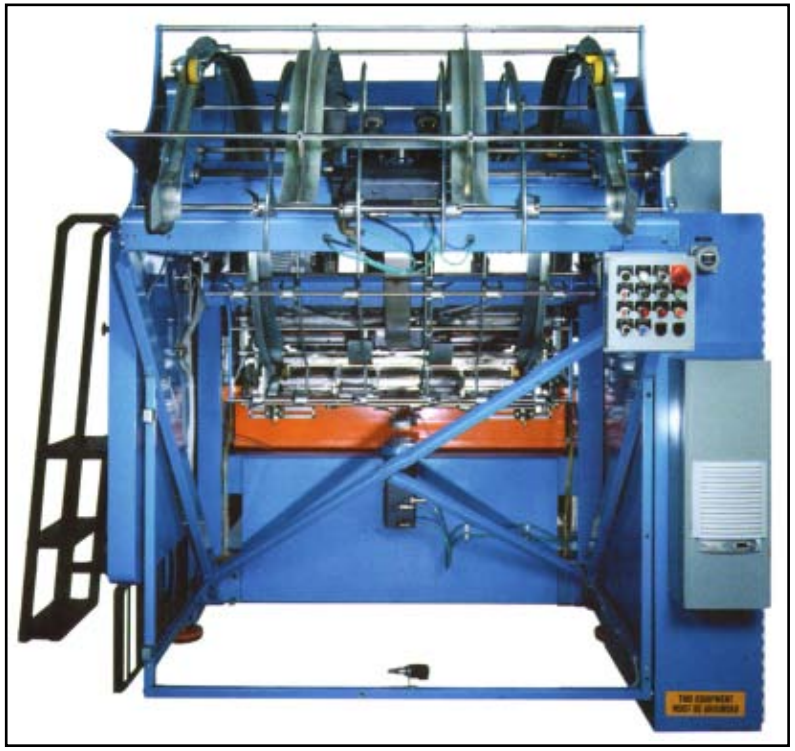
IRWIN
Research & Development, Inc
THE ORIGINAL TECHNOLOGY

50 VERTICAL

Trim Press

Model 50 "Vertical Trim Stack" Trim Press

The Irwin Research & Development Model 50 Vertical Trim Stack (VTS) Trim Press was the first to market a high speed vertical trim press with "Ballerina's" patented "Auto Start" servo feed, which allows hands free threading of the sheet into the treadle sheet guides.



The VTS features vertical stacking up to 10" (254mm), coupled with side conveying of product, bagging system and our model 50-'04 Chesaw makes this trim press package the least labor intensive in the industry.

The greater cycle speed is achieved from our lightweight, aluminum-cast platen that is driven from four points and drives a linear motion treadle with two connecting rods. The platen, treadle and tooling are counterbalanced to increase machine performance at higher speeds.
A high speed servo ejector provides tap eject of each part into the die or count eject into the die magazine.

Irwin has a patented guide and locator system in our VTS trim tool to insure consistent trim registration.

50 NT HORIZONTAL

Trim Press

Model 50 Trim Press

Irwin Research & Development offers the high speed NT Trim Press in a Model 50 configuration.

The Model 50NT Trim Press achieves greater cycle speeds by utilizing a lightweight, aluminum-cast platen driven from four points and drives a linear motion treadle with two connecting rods. This Model 50NT Trim Press comes in a low profile canopy and treadle design or standard high profile canopy and treadle configuration. Both feature our automatic sheet adjust at the canopy feed, servo pick and our patented self-feed, "Auto Start" treadle, which allows operational threading of the sheet into the treadle sheet guides. The result is a trim press that can run at cycle speeds of up to 200 RPM.

The "Ballerina" control system gives the 50 NT Trim Press highly accurate product count registration. The offset trim variable allows the operator to miss-trim the product at their pre-determined count. The operator can off-set trim the product up or down and they can set this distance to give the packers a defined stack count that is still packable product.

You can count on Irwin Research & Development Field Service from the machine start-up to the unlikely event of a system failure, Irwin Research takes great pride in the fact that we offer unparalleled customer service in the thermoforming industry.

The 50NT Trim Press is another example of how Irwin Research & Development is continuing its long history of inventing and inovating the fastest most reliable Thermoformers in the industry. Serving our Customers IS our Business.

SERVO EJECTORS

The Power of Ballerina

More Choices!

Over 30 Marker Types To Fit Your Needs!

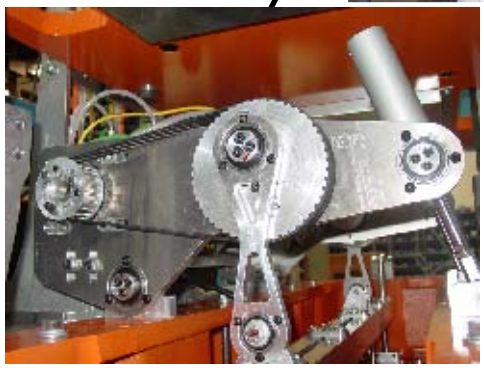
Ballerina is a flexible and powerful control for thermoforming machine control. Servo motor controlled ejector with pneumatic cylinders attached, all controlled by Ballerina, can be configured to meet your needs. Tap eject and servo stroke up to 7" (177.8mm) combined with pneumatic stroke up to 15" (381mm) gives you 22" (558.8mm) of available stroke for total ejecting of stacks into automatic packaging equipment. Ballerina controlled platens, canopy and servo pick all work together to stop, eject and start up again without missing a beat.

Maximum Servo Stroke: 7" (177.8mm)
Maximum Pneumatic Stroke: 15" (381mm) 22" (558.8mm)combined stroke available for Mark by Stop SEJ w/pkg (Stop Servo EJect with packaging)

LINEAR SERVO EJECTOR
Rack and Pinion Driver
Designed for speed, reliability and accuracy. Ballerina Controlled
Maximum Stroke 8" (203.2mm)
Tap Eject at 250 CPM:1" (25.4mm)
Tap Eject at 200 CPM: 2" (50.8mm)
Full Stroke at 100 CPM 8" (203.2mm)
Patent Pending

VERTICAL TRIM STACK

Trim Press



Tap Servo Eject With Clear Parts Cylinders

The Tap Servo Eject motor runs a full-revolution tap-eject stroke every trim cycle to help the VTS stacks nest neatly in the accumulator brushes. The tap stroke motion is controlled with a software cam. Like a mechanical cam, the tap position relative to trim position remains the same for all trim speeds. The tap eject motion is controlled from the Ballerina console with only a few variables, including the trim angles at which the tap motion starts, reaches full-extension, and finishes. By changing these parameters, the top-of-stack location can be easily changed while the machine is running. The tap eject stroke is 1-1/2 inches (38.1mm).

The Clear Parts Cylinders hold the servo eject platform slightly elevated for running. They allow the servo tap to have an extended stroke for clearing out the occasional jam in the accumulator brushes. This special function works only if the trim press is disabled, and the operator uses the “Clear Eject” button to command the trim press to clear the cavities. The trim press rings the bell, enables, then closes, remaining enabled. Then the Clear Parts Cylinders lower the servo eject platform down 1-5/8 inches (41.275mm), and the servo ejector moves to full extension — giving a total clear eject stroke of 3-1/8 inches (79.375mm) for clearing the cavities. The servo ejector then moves back to its home position, while the cylinders stay down and the conveyors run out until the operator presses the Press Stop button. Once in Clear Eject, the operator can press the Clear Eject button again, and the servo ejector will repeat its clearing stroke.

Ask an Irwin Representative For a Video CD To See it in Action!!!

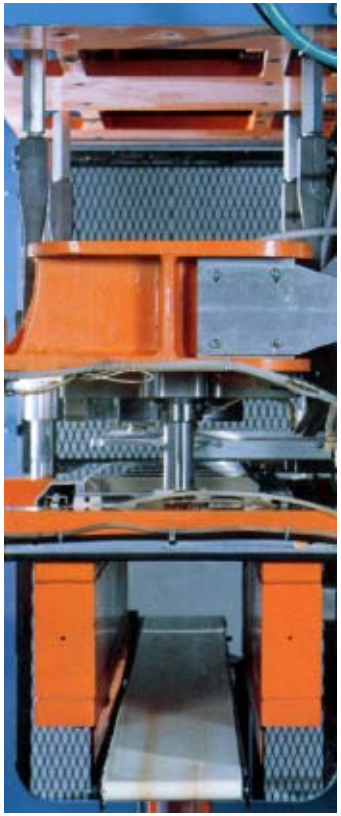
Also Available
From Irwin: Brochure CD

Maintenance CD:
English, Spanish, French, German, Italian

Manual CD
Video CD

50 NT & VTS

Specifications



Model 50 VTS

Sheet Width	Max. 53" (1346mm) Min. 30" (762mm)
Product Depth	Standard 2.5" (64mm) Optional 3.25" (83mm)
Treadle Adjust	Vertical: 0" Horizontal: 8" (203mm)
Stroke	Max: 6" (152mm) Min. 4" (102mm)
Standard Platen Opening	Across sheet: 56" (1422mm) Index direction: 14" (356mm)
Maximum Cutting Force	55,000 lbs. (254kn) (27.5 Tons)
Dry Cycle Speed	1-220 cpm
Stack Height	max. 10" (254mm) Min. 1" (25mm)
Servo Pick	Standard
Self Feed Treadle "Auto Start"	Standard
Counter Balance Platen Motion	Standard
Servo Ejector	Optional

Model 50 NT

Sheet Width	Max. 53" (1346mm) Min. 30" (762mm)
Product Depth	Standard 2.5" (64mm) Optional 3.25" (83mm)
Treadle Adjust	Vertical: 5" (127mm) Horizontal: 7" (178mm)
Stroke	Max: 8" (283mm) Min. 5" (127mm)
Standard Platen Opening	Across sheet: 56" (1422mm) Index direction: 14" (356mm)
Maximum Cutting Force	55,000 lbs. (254kn)
Dry Cycle Speed	1-220 cpm
Low Profile Canopy & Treadle	Standard
High Profile Canopy & Treadle	Optional
Servo Pick	Standard
Self Feed Treadle "Auto Start"	Standard
Counter Balance Platen Motion	Standard
Servo Ejector	Optional

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