



EP Sprue Pickers



**Part and Runner
System Removal**

Patented Gripper

**Flexible, Easy-To-Use Hand-Held
Pendant Controller**

**Unique Gripper Design
Eliminates Verification
Switch Adjustment**

The Economizer EP-YS and EP-ST Series pickers feature high payload capacities, a proven design and a state-of-the-art control system. These pickers are backed by Economizer's worldwide network of technical, sales and service support personnel, including experienced design and application engineers.

The
Economizer
the economic choice

1-100

Visit our website at www.theeconomizer.com. Please visit or call us anytime to discuss your automation needs.

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EP-YS Series sprue pickers from Economizer are designed to be a cost-effective sprue removal robot and feature a single stage vertical arm for simple operation. The standard controller provides teach-programmable sequences for maximum flexibility.



**STATE-OF-THE-ART CONTROL
(EP-YS AND EP-ST)**

- Ten standard sequences
- Ten user-programmable sequences
- Two spare outputs, one spare input
- Built-in help and diagnostics
- Standard SPI interface with connector
- Spanish version available

ADDITIONAL EP-YS SERIES STANDARD FEATURES

- Slow-down at part release
- Pressure differential switch for sprue/runner detection on gripper eliminates mechanical switches and increases reliability
- Main arm swing angle: 60°-90° (Adjustable)
- Compressed air pressure: 60-90 psi
- Effective payload: 8 lbs
- Power requirement: 120 or 240 VAC, approximately 40 VA

OPTIONAL FEATURES

- Wrist rotate B-90
- Vacuum grip circuit including a generic vacuum tooling kit and B-90 wrist rotate
- Spare parts kit
- Mold spray system with controller (excludes nozzles)
- Swing out home position for rack molds
- Non-SPI version
- Spanish version controller
- Tool free adjustments



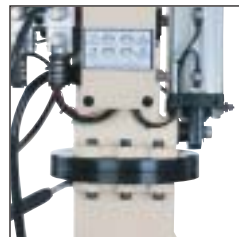
**EASY STRIP ADJUSTMENT
(EP-YS ONLY)**

*No tools needed for strip adjustments
(Tool free adjustment on vertical is optional)*



**SIMPLE SWING ADJUSTMENT
(EP-YS ONLY)**

*Quick and easy adjustment of swing
direction and swing angle*



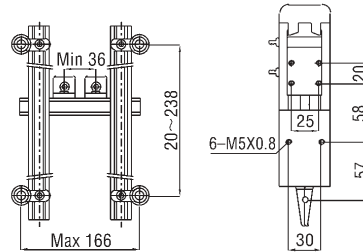
**PIVOTING BASE
(EP-YS AND EP-ST)**

*Easy adjustment and pivot of robot position
allows robot to pivot out of the way for
mold changes*

EP Series Sprue Pickers

the economic choice

EP-ST Series sprue pickers from Economizer are available with an optional two-stage telescopic vertical arm for minimizing required overhead clearance and higher speeds. Units are available with vertical strokes up to 950mm. The standard controller provides teach-programmable sequences for maximum flexibility.



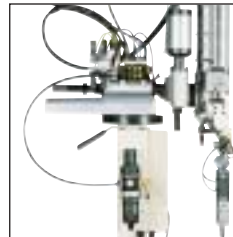
TOOLING STANDARD WITH ALL EP-YS AND EP-ST VACUUM-EQUIPPED (V) MODELS

ADDITIONAL EP-ST SERIES STANDARD FEATURES

- B-90° wrist rotation
- Main arm safety lock prevents arm from descending in the event of air pressure loss
- Audible and visual alarms for operator alerts
- Pressure differential switch for sprue/runner detection on gripper eliminates mechanical switches and increases reliability
- Main arm swing angle: 45°-90° (Adjustable)
- Compressed air pressure: 60-90 psi
- Effective payload: 6 lbs
- Power requirement: 120 or 240 VAC, approximately 40 VA

OPTIONAL FEATURES

- Telescopic vertical arm (standard on 750-950 models)
 - Vertical motions ride on linear bearings which allow for lower profiles with increased speed and rigidity
- Venturi vacuum circuit with verification and adjustable vacuum tool
- Slowdown at part release (standard on telescoping 'T' units)
- Mold spray system with controller (excludes nozzles)
- Swing out home position for rack molds
- Non-SPI version
- Spanish version controller
- Tool-free adjustments



TELESCOPIC VERTICAL ARM (OPTIONAL) (EP-ST ONLY)

Vertical motions ride on linear bearings which allow for lower profiles with increased speed and rigidity



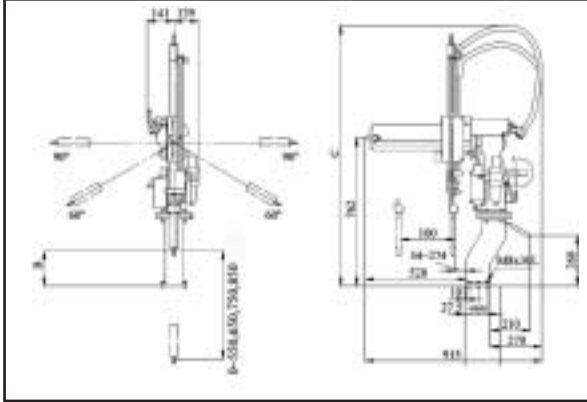
EASY MECHANICAL ADJUSTMENT OF MOLD ENTRY POSITION (EP-ST ONLY)

Rack-and-pinion motion with scale makes set-up quick and easy

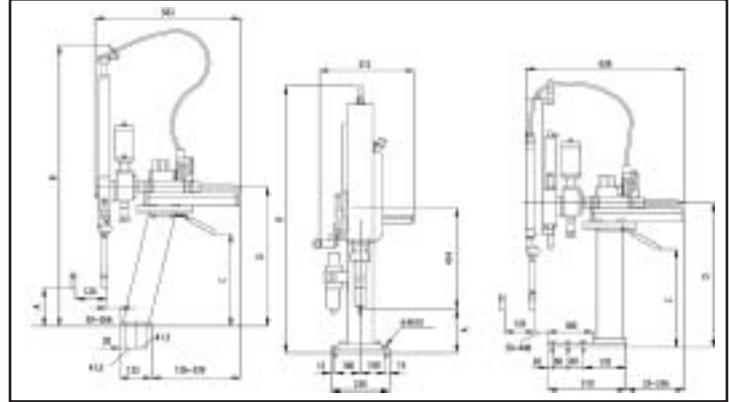


PATENTED GRIPPER (EP-YS AND EP-ST)

Patented sprue gripper is strong and compact. No verification switch adjustment needed, thanks to the use of a pressure differential switch



EP-YS-XXX



EP-ST-550/650
(Pictured at left)

EP-ST-xxxT
(Pictured center and right)

EP-YS SERIES SPECIFICATIONS

Model	Vertical Stroke (mm/in)	IMM Range (tons)	Dry Cycle (sec)		Gripper Heights (mm/in) (B)	Overall Height (mm/in) (C)	Net Weight (kg)
			Take-Out	Overall			
EP-YS-550	550/21.7	60-180	0.7	3.2	115-315/4.5-12.4	1188-1388/46.8-54.6	33.5
EP-YS-550W					35-235/1.8-9.3		34
EP-YS-650	650/25.6	120-250	0.8	3.4	115-315/4.5-12.4	1288-1488/50.7-58.6	34
EP-YS-650W					35-235/1.8-9.3		34.5
EP-YS-750	750/29.5	200-350	1.0	3.8	75-275/3.0-10.8	1388-1588/54.6-62.5	34.5
EP-YS-750W					0.0-190/0.0-7.5		35
EP-YS-850	850/33.5	300-450	1.2	4.0	75-275/3.0-10.8	1488-1688/58.6-66.5	35
EP-YS-850W					0.0-190/0.0-7.5		35.5

W: Wrist Rotation

EP-ST SERIES SPECIFICATIONS

Model	Vertical Stroke (mm/in)	IMM Range (tons)	Dry Cycle (sec)		Model	Gripper Height (mm/in)	Overall Height (mm/in)	Handle Height (mm/in)	Swing Centerline (mm/in)	Net Weight (kg)
			Take-Out	Overall						
EP-ST-550	550/21.7	60-150	0.7	3.7	EP-ST-550	180/7.1	1236/48.7	373/14.7	563/22.2	40
EP-ST-550T			0.5	3.5	EP-ST-550T		1094/43.1	403/15.9	594/23.4	49
EP-ST-650	650/25.6	125-250	1.2	4.2	EP-ST-650	230/9.1	1393/54.8	423/16.7	613/24.1	44
EP-ST-650T			0.6	3.6	EP-ST-650T		1194/47	453/17.8	644/25.4	53
EP-ST-750T	750/29.5	200-350	0.8	3.8	EP-ST-750T	280/11	1294/50.9	503/19.8	694/27.3	55
EP-ST-850T	850/33.5	300-450	1.0	4.0	EP-ST-850T	330/13	1394/54.9	553/21.8	744/29.3	57
EP-ST-950T	950/37.4	400-700	1.2	4.2	EP-ST-950T	380/15	1494/58.8	603/23.7	794/31.3	59

T: Telescopic

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