



YOUR PARTNER IN PLASTIC JOINING

InfraStake Module Specifications

InfraStake Modules

Mechanical

	IS32	ISI25	ISM20
<i>Length</i>	213.2 mm (8.392")	161.4 mm (6.353")	161.4 mm (6.353")
<i>Diameter</i>	31.6 mm (1.240")	31.4 mm (1.235")	20.0 mm (0.787")
<i>Weight</i>	0.45 kg (1.0 lb)	0.36 kg (0.8 lb)	0.23 kg (0.5 lb)
<i>Module Mounting Thread</i>	M8x1.25	M10x1.5 or 5/16"-18	M8x1.25
<i>Punch Position Sensor</i>	Integrated Linear Potentiometer*	Auxiliary Hall Effect Sensor	Auxiliary Hall Effect Sensor
<i>Punch Position Sensor Tolerance</i>	+/- 0.05 mm (0.002")	+/- 0.5 mm (0.02")	+/- 0.5 mm (0.02")

*Analog card and 10 V power supply required.

Pneumatic

	IS32	ISI25	ISM20
<i>Pressure</i>	550 kPa (80 psi)	550 kPa (80 psi)	550 kPa (80 psi)
<i>Air Flow (per module)</i>	90 SCFH	90 SCFH	90 SCFH
<i>Punch Cylinder Bore</i>	16.0 mm (0.630")	14.2 mm (0.563")	14.2 mm (0.563")
<i>Punch Cylinder Force</i>	110 N (25 lbf)	89 N (20 lbf)	89 N (20 lbf)

Electrical

	IS32	ISI25	ISM20
<i>Wattage</i>	100 W	100 W	35 W
<i>Voltage</i>	12 V	12 V	12 V
<i>Amperage</i>	8.3 A	8.3 A	2.9 A
<i>Lamp Type</i>	Tungsten Halogen	Tungsten Halogen	Tungsten Halogen

	IS32	IS125	ISM20
<i>Lamp Life</i>	1000 hr	1000 hr	1000 hr
<i>Available Power Supply Models</i>	PM400	PM400, PSC, PSCMN	PM400, PSC, PSCMN
<i>Module Power Connections</i>	flying lead (1 m) or field-wireable Amphenol	flying lead (1 m) or field-wireable Amphenol	connected Eurofast
<i>Machine Power Connections</i>	none, bulkhead, or in-line	none, bulkhead, or in-line	none, bulkhead, or in-line

Accessories

Compatibility

	IS32	IS125	ISM20
<i>PM400 Power Supply</i>	✓	✓	✓
<i>Air Manifold</i>	✓	✓	✓
<i>Dual Flow Cooling Air Kit</i>	✓	✓	✓
<i>End-User Kit</i>	✓	✓	✓
<i>Z-Axis Spring</i>	●	✗	✗
<i>Z-Axis Cylinder</i>	✗	●	●
<i>X-Y Mount</i>	✗	●	●
<i>Punch Position Sensor</i>	✓	✗	✗
<i>Full Stroke Verification Sensor</i>	✗	●	●
<i>Boss Presence Verification Sensor</i>	✗	●	●
<i>Low Pressure Boss Sensing Kit</i>	●	●	●

Accessories Key

- ✓ Included
- Optional
- ✗ Not Available

Specifications

	Description	Specification
PM400 Power Supply	Power	120 or 240 VAC
	Frequency	50/60 Hz
Air Manifold	Versions	4-port or 8-port
	Punch Ports - Inlet	6 mm (1/4") OD, 4 mm (1/8") ID
	Punch Ports - Outlet	4 mm (5/32") OD, 2.4 mm (3/32") ID
	Cooling Air Port - Inlet	10 mm (3/8") OD, 6.5 mm (1/4") ID
	Cooling Air Port - Outlet	4 mm (5/32"), 2.4 mm (3/32") ID
Dual Flow Cooling Air Kit	Regulator	0-0.4 MPa (0-60 psi)
	Filter Rating	0.01 μ m
	Max Flow Rate	254 SCFH
End-User Kit	Flow Meter	0-100 SCFH
	Gold Polish	Award Glo, Non-abrasive, 2 oz.
Z-Axis Spring	Force	115-155 N (26-35 lbf)
Z-Axis Cylinder	Cylinder Bore	25 mm (0.98")
	Force (60 psi)	355 N (80 lbf)
X-Y Mount	Thread	5/16"-18
	Compatible Plate Thicknesses	12.7 mm (1/2") or 19.1 mm (3/4")
Punch Position Sensor	Type	Linear Potentiometer
	Position Tolerance	+/- 0.05 mm (0.002")
Full Stroke Verification Sensor	Type	Hall Effect Sensor
	Position Tolerance	+/- 0.5 mm (0.02")
Boss Presence Verification Sensor	Type	Hall Effect Sensor
	Position Tolerance	+/- 0.5 mm (0.02")
Low Pressure Boss Sensing Kit	Regulator	0-0.4 MPa (0-60 psi)
	Max Pressure	1 MPa (145 psi)

Model IS32



Model ISI25



Model ISM20

