

Small output Polyurethane High Pressure Machine Swiss Precision combined with Linden Control Technology - unbeatable



Applications Include:



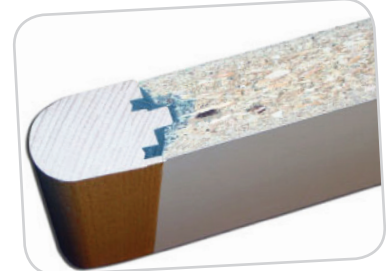
Clear RIM - Eyewear & Facemasks



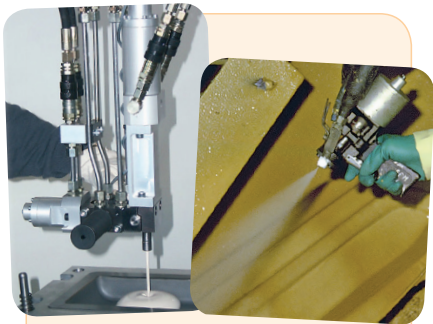
Back Foaming



Rear Foaming of Leather and Fabric Components



Small Shot Molding & Adhesive/Joining Applications



The PSM 90

For Open or Closed Mold Pouring

- Solvent-free and surge-free metering
- Smallest shot weight as low as 3 g
- Practically maintenance-free
- Closed loop controlled mixing ratio and output

LINDEN ISOTHERM AG

Small output High-pressure Mixing and Dispensing Unit for Open/Closed Mold Pouring or Spray

The PSM 90 is ideal for specialty applications that require either a small shot size with rapid cycle times or low-throughput uniform spray of polyurethane. This high-pressure machine provides 100% flexibility in processing polyurethane foams, elastomers and polyureas.

The PSM 90 utilizes high-pressure cylinder metering for highly accurate shots as small as 3 grams and throughput as low as 10 grams per second. Precision cylinder technology combined with closed loop processing provides the ultimate equipment designed for precise metering accuracy.

The PSM 90 allows the molding of complex, technical parts in both open /closed molding processes.

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LINDEN
Linden Industries, Inc.
Polyurethane Processing Equipment





Standard Features

Tanks

- 10 Gal, Stainless Steel
- Dry air or nitrogen pressure blanket
- Oil heating jackets
- Electric motor driven agitators
- Tank level control
- Auto fill provisions

Feed pumps

- Continuous recirculation
- Oil heat jacketed

Edge Filters

- 0.1 mm clearance
- Motorized cleaning
- Oil heat jacketed

Metering

- Lance type displacement cylinders
- Hydraulic servo cylinder driven
- Oil heat jacketed
- Double seals with DIDP lubrication

Controls:

- Linden built
- Allen Bradley PLC
- Color touch screen HMI (Human, Machine Interface)
- Operator friendly menu driven screens in English languish for all process parameters and diagnostics

Mix Head

- Impingement mixing
- Component recirculation
- Automatic self cleaning: no solvent flush, no air blow-off
- All metal to metal sealing; practically maintenance free
- Pour or spray mix heads
- Oil traced coaxial hoses

Temperature control

- Individual temperature zone controllers
- 3 or 5 KW selectable based on heat demand
- Water cooling from optional chiller for processing near ambient temperatures

Machine Function

- Polyol and Iso stored and heated in day tanks are recirculated via feed pumps
- All major machine components are heat traced for superior temperature control with low output processing
- Lance type metering cylinders, servo controlled accurately meter and ratio control the components at high pressures up to 2900 PSI
- Impingement mixing and dispensing occurs in a totally self cleaning mix head
- Multiple mix heads can be connected to the machine

Applications

- Production of parts in Rigid Foam, Flexible or Integral Foam as well as RIM or RRIM systems in open or closed molds.
- Very high repeat accuracy for shot weights as low as 3 grams

Optional Equipment

- Mix Head Boom: 90 degree radius swing, vertical counter balance
- Automatic drum fill stations complete or individual components:
 - Diaphragm transfer pumps
 - Drum pump lift
 - Drum blanket pressure controls
 - Polyol Drum agitator
 - Drum heat jackets
- Drum scale with low weight alarm
- ProVu Data Acquisition system
(Please consult Linden product Form 23 ProVu™ for details)



Technical Data

- Output, step less 10 – 85 gr/sec (0.6 – 5 L/min)
- Ratio, step less – 1 : 4 to 4 : 1
- Viscosities – up to 5000 CPS (5000 mPas)
- Temperature operating range: 80 – 180° F (27 – 82° C)
- Operating pressure – Max 2900 PSI (200 Bar)
- Shot Weight: 3 – 1000 Gram
- Power required : 480 Volt, 3 Phase, 60 Hertz , 50 Amp (other voltages available)
- Machine size: Width - 100"
Depth – 48"
Height – 88"
- Machine Weight: 3500 lbs

Linden Industries, the polyurethane total equipment specialists, manufactures a complete line of standard and custom polyurethane processing lines and distributes Isotherm AG equipment throughout the U.S., Canada and Mexico.