Sodick
Injection Molding Machinery Division

ULTRA-PRECISION INJECTION MOLDING MACHINES
V-LINE TWO STAGE PLUNGER INJECTION
MAXIMUM STABILITY IN MOLDING PROCESS

• Provides an extremely uniform melt condition
• Super slow speed injection
• Super high speed and pressure injection
• Exact material dosing system
• Precision holding stage control
• No check ring

Preparation: A stationary extruder screw introduces uniform melt material into the injection barrel

Backflow Prevention: Patented positive shut-off system ensures an exact dose every shot.

Injection: Ultra-high response time achieved by linear motor technology
DIRECT HYBRID CLAMPING MECHANISM
SUPERIOR ACCURACY IN CLAMPING DESIGN

- Perfect straightness & alignment
- Center, direct, even pressure distribution
- Exact clamp force control
- Extreme low tonnage capability
- Easy Maintenance / Simple Design
- Hybrid clamping design

HORIZONTAL
- Ball Screw
- Locking Mechanism
- B-Platen
- A-Platen
- Clamping Cylinder
- Clamping Ram
- LM Guide
- Tie-Bar

SINGLE STATION
- Mold Clamping Ram
- Ball Screw
- Accumulator (Counter balance)

ROTARY TABLE
- Mold Open/Close Hydraulic Cylinder
- Servo Motor for Rotary Table
- Locking-type Mold Clamp
- Ejection Unit

847-490-8130
www.plustech-inc.com
LINEAR MOTOR DRIVEN VALVE
PLUNGER & LINEAR MOTOR TECHNOLOGY
• Super high response time
• Fastest injection acceleration & deceleration
• Lightweight plunger design

HIGH SPEED & PRESSURE INJECTION / INJECTION COMPRESSION SYSTEM
PUSH THE LIMIT WITH THIN WALL APPLICATIONS
• Up to 1,500 mm/sec (59”/sec) speed
• Up to 343 MPa (49,750 psi) pressure
• 21.8 G acceleration
• 0 to 650 ton clamping force in 200ms

MICRO MOLDING OPTIONS
SMALL SHOT SIZE FROM 2.0cc (0.07oz)
• High dosing accuracy combined with an ultra-repeatable process
• Quick response in injection acceleration & deceleration
• Accepts standard size pellets

HYBRID MACHINE
BEST DRIVE MECHANISM FOR ACCURACY
• Linear motor for high response
• ACC assisted hydraulic for high power
• AC servo motor for mold positioning
• Hydraulic for pressure retention
HIGH END APPLICATIONS
IDEAL FOR TIGHT TOLERANCE PROJECTS
- Medical, electronics, optics, automotive
- Best for advance polymers
- Best for fiber filled polymers - glass fiber, carbon fiber, metal fibers and additives

EASY-TO-USE CONTROL SYSTEM
USER FRIENDLY PAGE CONSTRUCTION
- Windows-based interface
- Special precision control functions
- Easy maintenance navigation & troubleshooting

PERFECT SHOTS EVERY TIME
OPTIMUM INJECTION UNIT SIZE
- High temperature heaters - Standard
- Wear resistant screw and barrel - Standard
- Optional large clamp with small injection
- Optional bigger screw with smaller plunger
- Shot usage from 10% of total shot or less

LSR-SILICONE MOLDING
DESIGNED FOR CRITICAL OPERATIONS
- Flashless molding with Plunger Injection
- Super low speed & pressure injection
- Exact dosing system – repeatable process

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VERTICAL INJECTION WITH ROTARY TABLE

180° OSCILLATING ROTARY TABLE

- Available from 3 ton to 150 ton
- High yield insert molding
- Lower table height - ergonomic design

VERTICAL INJECTION WITH SINGLE STATION

REEL-TO-REEL MOLDING READY

- Available from 20 ton to 75 ton
- High yield insert molding
- Counter balanced clamping mechanism

SODICK - KAGA

STATE OF THE ART FACTORY

- HQ Factory for IMM
- ISO 14001
- R&D and Molding Technology center
- Started in 1987

PLUSTECH INC

NORTH AMERICAN HEADQUARTERS

- Located in Schaumburg, IL
- Full production style showroom
- Mold Trials – rising to the challenges
- In-House training classes
**MICRO MOLDING**

**LP SERIES**
Advanced injection for micro features with extremely tight tolerances

- Horizontal: 10 to 40 ton
- Vertical: 3 to 40 ton

**MEDIUM SIZE HORIZONTAL**

**GL SERIES**
This midrange series is multi purpose for a wide range of applications

- Horizontal: 30 to 150 ton

**LARGE SIZE HORIZONTAL**

**TR SERIES**
Ideal for large scale applications

- Horizontal: 180 to 650 ton

**HIGHSPEED & HIGH PRESSURE INJECTION**

**HSP SERIES**
High speed injection in under 59”/sec at 50,000 psi

- Horizontal: 60 to 220 ton

**LIM / SILICONE MOLDING**

**LSR SERIES**
Stable molding control for flash free molding

- Horizontal: 20 to 450 ton
- Vertical: 20 to 150 ton

**VERTICAL INJECTION WITH ROTARY TABLE**

**VRE SERIES**
Multiple station flexibility to maximize productivity

- Vertical: 3 to 150 ton

**VERTICAL INJECTION WITH SINGLE STATION**

**EHV SERIES**
Ideal for dedicated applications

- Vertical: 20 to 75 ton

**SPECIAL CONFIGURATIONS**

**SPECIALS**
Custom specification machines are available on request

- Vertical: 20 to 75 ton

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Sodick understands the demanding requirements of the injection molding industry. We strive to offer a competitive edge with our innovative technologies. To browse our full range of injection molding equipment, or learn more about Sodick, visit [www.Plustech-Inc.com](http://www.Plustech-Inc.com)
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