

Sodick

Injection Molding Machinery Division

ULTRA-PRECISION INJECTION MOLDING MACHINES

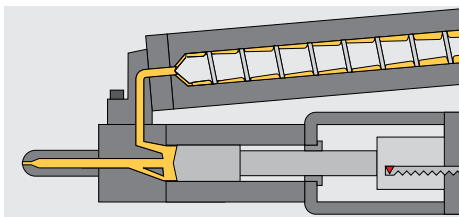




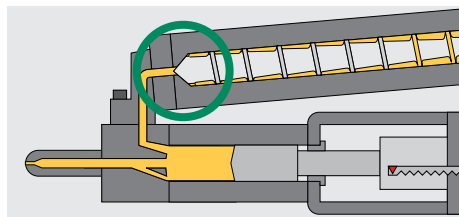
V-LINE TWO STAGE PLUNGER INJECTION

MAXIMUM STABILITY IN MOLDING PROCESS

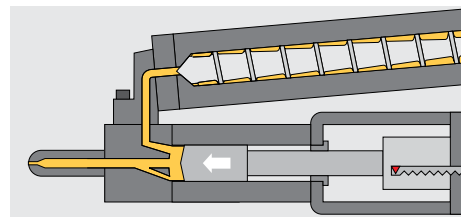
- Provides an extremely uniform melt condition
- Super slow speed injection
- Super high speed and pressure injection
- Exact material dosing system
- Precision holding stage control
- No check ring



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

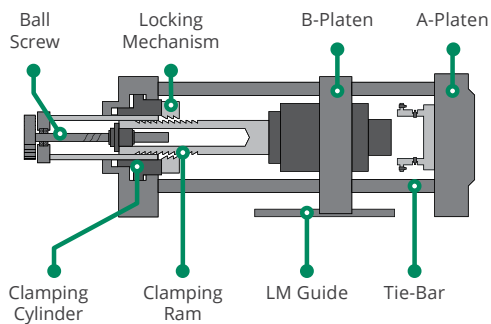


DIRECT HYBRID CLAMPING MECHANISM

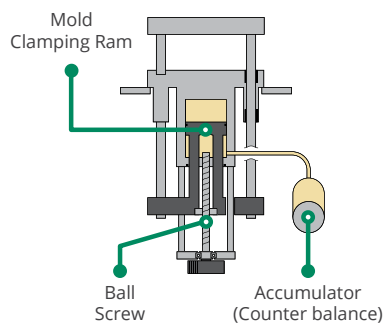
SUPERIOR ACCURACY IN CLAMPING DESIGN

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

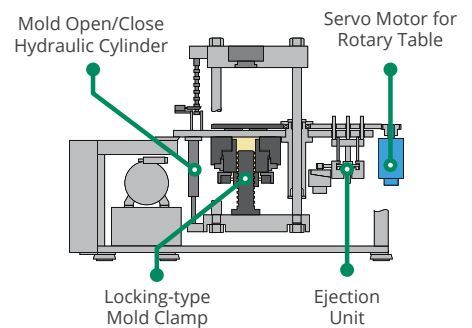
HORIZONTAL



SINGLE STATION



ROTARY TABLE





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





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

HIGH SPEED & 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

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



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