



# COMPACT MOLD MOUNTED INJECTION UNITS

## 2-component molding



# CALIBER

# X-CALIBER

ALL ELECTRIC MOLD  
MOUNTED INJECTION UNITS  
2-component molding

The high-performance **X-Caliber Compact Injection Unit** is designed to exceed your production needs – they are **30% shorter**, **50% lighter** and have **50% smaller footprint** than other units in the market.

## Standard Features

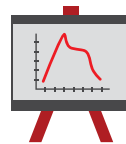
- Mechanical Shut-off nozzle
- 15" touch screen
- 8 zone valve gate control
- 8" nozzle pull back



## Unrivalled Melt Quality

We take melt quality to the highest level by delivering the same shear and thermal history to every plastic pellet with our stationary screw.

Plastic exposure in reciprocating screws changes based on the screw position.



## Real Time Control

X-Caliber's all electric closed loop servo-motor system permits real time control of the injection process.

The result is stable system performance and premium part quality.



## Fast and Flexible

The X-Caliber Nozzle Shut-off permits faster cooling time with the ability to open the mold during plasticizing.

We work hard to provide you with the tools to optimize your cycle time.



## Backflow Protection

Setting new standards in positive shut-off, we eliminate all inconsistencies associated with check rings.

A mechanical shut-off prevents any backflow during injection ensuring consistent part filling.

## VERSATILE

Interchangeable

Use on multiple molds

Use on any machine

Euromap 67 / 12 interface

Remote Support

WiFi and Ethernet

**VECTOR  
INJECTION**

**WARNING**  
DISCONNECT POWER  
BEFORE WORKING  
WITHIN.

EMERGENCY

# CONFIGURATIONS

The X-Caliber injection unit is the most versatile secondary injection unit. It can be moved to any position on a mold in a horizontal or vertical orientation.

Injecting second shot material with a mold mounted injection unit allows for maximum manufacturing flexibility and minimizes valuable floor space.

The mold, with an X-Caliber mold mounted injection unit, can run in any single screw injection molding machine often with the entire assembly positioned inside the injection molding machine guarding.

## Options

- Moving Side Mounting
- Stack mold center section mounting
- Multiple Units; 2nd, 3rd, 4th shot
- Custom configurations
- Remote touch screen
- 24 zone temperature control
- Custom material loading



### Horizontal, Standard

The standard position for X-Caliber injection units. The injection unit can mount between the tie-bars and often inside the machine guarding.



### Horizontal, Parallel

In this configuration a 90 degree adapter is used to position the injection unit between the tie-bars.

### Vertical, Standard

The standard vertical position for the X-Caliber injection unit requires only 5" of mold height for mounting. The injection unit sits on top of the mold with minimal space requirements and no machine guarding interference.

### Vertical, Parallel

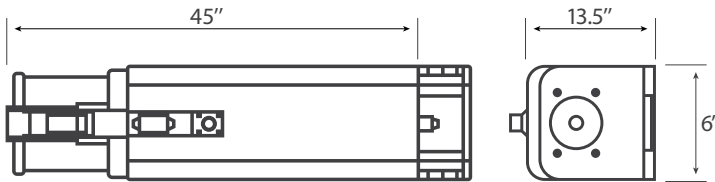
This position is for large machines where the injection unit can mount on the side of the mold between the tie-bars. Alternatively, the injection unit can mount on wide molds positioning the X-Caliber outside the tie-bars.

# 30

Shot size:  
1 - 30g  
0.002 - 0.05lb

## TECHNICAL DATA

Injector Ø [mm]	Pressure [PSI]	Shot Size [cm <sup>3</sup> ]		
		100mm stroke	200mm stroke	Maximum Fill Rate [cc/s]
10	40 000	7.9	15.7	20
12	27 800	11.3	22.6	30
14	20 500	15.4	30.8	40
16	15 600	20.1	40.2	50
18	12 300	25.4	50.9	65
20	10 000	31.4	62.8	80
22	8 300	38.0	76.0	100

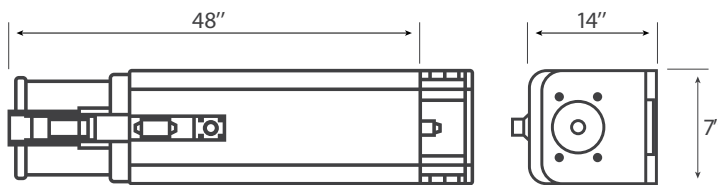


# 40

Shot size:  
5 - 125g  
0.01 - 0.18lb

## TECHNICAL DATA

Injector Ø [mm]	Pressure [PSI]	Shot Size [cm <sup>3</sup> ]		
		200mm stroke	300mm stroke	Maximum Fill Rate [cc/s]
14	35 600	30.8	46.2	30
16	27 300	40.2	60.3	40
18	21 600	50.9	76.3	50
20	17 500	62.8	94.2	60
22	14 400	76.0	114.0	75
24	12 100	90.5	135.7	90
26	10 300	106.2	159.3	100

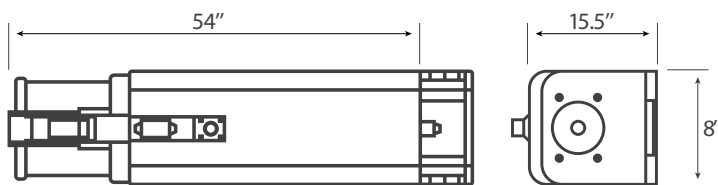


# 50

Shot size:  
10 - 300g  
0.02 - 0.65lb

## TECHNICAL DATA

Injector Ø [mm]	Pressure [PSI]	Shot Size [cm <sup>3</sup> ]		
		300mm stroke	400mm stroke	Maximum Fill Rate [cc/s]
18	34 200	76.2	101.8	100
20	27 700	94.2	125.7	125
22	22 900	114.0	152.1	150
24	19 200	135.5	181.0	180
26	16 400	159.2	212.4	200
28	14 100	184.5	246.3	250
30	12 300	212.0	282.7	280



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