

# Innovative into the Future – BOY-Injectioneering



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Product Range

# Product Range

## BOY injection molding machines

### Your advantages:

- Maximum flexibility
- Small installation surface
- Optimum production conditions
- Large clamping dimensions
- Flexible application of mould
- Intuitive control
- Easy operation
- Minimum power consumption
- Low cooling capacity

Machine type/ Clamping force		Clearance between tie bars	max. shot weight (PS)
BOY XXS 6.93 US tons		6.3 inch / 8.1 inch diagonal	0.49 oz
BOY XS 11.0 US tons		6.3 inch / 8.1 inch diagonal	0.49 oz
BOY 25 E 27.5 US tons		10 inch	2.45 oz
BOY 35 E 38.5 US tons		11 x 10 inch (h x v)	2.45 oz
BOY 50 E 55.0 US tons		14.2 x 13.2 inch (h x v)	5.56 oz
BOY 60 E 66.0 US tons		14.2 x 13.2 inch (h x v)	5.56 oz
BOY 80 E 88.0 US tons		16.9 x 14.2 inch (h x v)	5.56 oz
BOY 100 E 110.0 US tons		16.9 x 14.2 inch (h x v)	9.29 oz
 BOY 125 E 137.5 US tons		18.50 x 16.93 inch (h x v)	10.91 oz









### Dimensions in the compact classe

The range of BOY is convincing

- Most comprehensive range of servo hydraulic injection molding machines up to 137,5 US tons
- Cantilevered two-platen clamping system
- Efficient servo-motor pump drive
- EconPlast technology
- Economic and efficient operation
- High reliability and operating stability
- Intelligent control software for intuitive operation
- Small installation surface
- Low machine hourly rates

# Product Range

## BOY insert molding machines (\*parting line injection)

Machine type/ Clamping force		Clearance between tie bars	max. shot weight (PS)
BOY XS V 11.0 US tons		6.3 inch / 8.1 inch diagonal	0.26 oz
BOY 22 E HV* 24.2 US tons		10 inch	2.05 oz
BOY 25 E VV 27.5 US tons		10 inch	2.45 oz
BOY 25 E VH* 27.5 US tons		10 inch	2.45 oz
BOY 35 E VV 38.5 US tons		11 x 10 inch	2.45 oz
BOY 35 E HV* 38.5 US tons		11 x 10 inch	2.45 oz
BOY 35 E VH* 38.5 US tons		11 x 10 inch	2.45 oz
BOY 60 E VV 66.0 US tons		14.2 x 13.2 inch	5.56 oz

### Your advantages:

- Insert molding machines with clamping forces of 11.0, 24.2, 27.5, 38.5 and 66.0 US tons
- Exceptionally small space requirements
- Ergonomic design
- Fixed lower clamping plate prevents the inserted parts from slipping
- Ideal options for extension and automation
- Perfect control due to intuitive operation

### Machine concepts of insert molding machines



For more than 40 years, BOY manufactures versatile insert molding machines with **vertically arranged clamping unit** which can be used for molding parts inserted.

The mature designs are the result of many years of experience with the basic concept of a **two-platen clamping unit** excellently suitable for this.

With this basic concept, the BOY insert molding machines are constructed **exceptionally ergonomically convenient**.



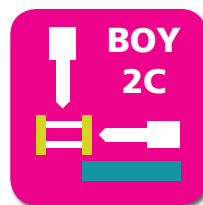
Servo-Drive



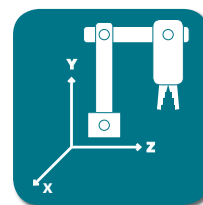
Procan ALPHA®



Technology



Multi-Component



Automation







E-Drive

## Product Range

### BOY injection units for multi-component

#### Your advantages:

- Separate hydraulic drive unit and control.
- Available with different injection units. Plasticizing volumes up to 9.89 in<sup>3</sup>, as well as injection pressures up to 45,370 psi are possible.
- The controls of both machines communicate with each other via special interface.
- Thus, flexible operation of the machine in innumerable options of application is possible in the area of the multi-component injection molding.

Machine type		injection unit	max. shot weight (PS)
BOY 2C XS		SP 14	0.26 oz
BOY 2C S		SP 11	0.14 oz
		SP 16	0.20 oz
		SP 45	0.98 oz
		SP 56	0.66 oz
		SP 81	0.98 oz
		SP 96	2.45 oz
BOY 2C M		SP 205	5.34 oz
BOY 2C L		SP 370	9.01 oz

You would like to learn more about BOY injection molding machines?



Data and Equipment (complete overview)



Competence brochure

