



Spritzgiessautomaten



**GREAT MACHINES —  
compactly designed**

Company

## Innovation and continuity

### More than four decades of ideas



*BOY 15 - the world's first injection moulding machine featuring the fully hydraulic two-platen clamping system, year of construction 1968*

More than four decades ago a technical innovation was the basis of BOY's worldwide reputation. At that time, the compact BOY 15 injection moulding machine impressed experts with its innovative, fully hydraulic two-platen clamping system. Since then, 40,000 injection moulding machines with clamping forces below 1000 kN have been shipped from the factory in Germany.

Users throughout the world trust in the precision and reliability of BOY injection moulding machines. Through to the last detail, BOY injection moulding machines contribute to the success of our customers.

The current generation of BOY injection moulding machines are precisely controlled, compact, and economical. Customers are impressed by their low operating costs and minimal consumption values. On-going developments, service-friendly designs and innovative details ensure that these machines retain their market edge.

The guiding principle of BOY's production policy, organization, and mode of business is to concentrate on the most important aspect!

Volume production, cost awareness, and extensive development resources provide the commercial basis for future innovations. Furthermore, a worldwide sales and service network ensures proximity to both markets and customers.



*The top model of the current BOY program:  
The BOY 90 with 900 kN closing force,  
280.5 cm<sup>3</sup> injection volume,  
bar clearance 430 x 360 mm as well as  
900 mm max. plate clearance (optional)*

#### **1968**

Establishment of the company by Max Schiffer and introduction of the BOY 15

#### **1974**

Founding of the sister company in the USA

#### **1976**

Introduction of the BOY 50

#### **1979**

Production of the 10 000th injection moulding machine

#### **1982**

BOY 30 with microprocessor control

#### **1989**

Introduction of the BOY 80

#### **1994**

Introduction of the Procan Control. DIN EN ISO 9001 certification

#### **1997**

Debut of the BOY 12

#### **1998**

Touchscreen panel (Procan CT)

#### **2001**

Expansion of operations: increase in floor space by more than 30%

#### **2002**

Introduction of the BOY 55 and BOY 90

#### **2003**

Introduction of the BOY 35 and BOY 35 VV

#### **2005**

BOY 55 VV insert moulding machine

#### **2007**

Installation of flexible flow production

#### **2007**

Introduction Procan ALPHA® control at the "K 2007"

#### **2008**

Debut servo-motor pump drive

#### **2009**

Introduction of ultra-compact injection moulding machines BOY XS and BOY XS V

## High-tech and know-how Quality right from the start

High-quality materials, reliable components, and robust construction and design ensure the unique reliability and long service life of BOY injection moulding machines. Although often used around the clock, seven days a week, BOY injection moulding machines remain a reliable means of production even after many years of use. This is also apparent in their high resale value.

Strict and organized supplier compliance standards, high quality directives and pre-testing prior to delivery, as well as practical tests over several days prior to delivery ensure the exemplary quality levels maintained by BOY.

BOY set high standards right from the beginning: The assembly line production introduced with the founding of the company in 1968 was revolutionary. Since then, the assembly process - driven by technological development

and the altered market requirements - has changed dramatically. Today, the flexible flow production with its synchronized processes guarantees optimum material flow, short delivery times, and maximum efficiency.

The responsibility for the reliability of all injection moulding machines is in the hands of the BOY personnel. The motivation of each and every employee to achieve the highest quality became the decisive factor for the success of the company. For this reason, the quality principle of BOY is the inclusion of all those involved in the manufacturing process. The commitment of an experienced and motivated staff will in the future also continue to ensure the quality in which thousands of customers throughout the world place their trust.

In short: BOY stands for the highest level of engineering and quality – Made in Germany.



The manufacturing, sales, and service processes at BOY have already been certified since:

1994 with ISO 9001

2010 with ISO 9001:2008



*The state-of-the-art flexible flow production process allows machines to be transported on individual carriages to the necessary ergonomically designed assembly stations*

## New standards in the compact class

BOY's product range is impressive!



*The universal machine design of the BOY injection moulding machines fulfills individual requirements in all industrial sectors*

BOY's product range includes machines with clamping forces below 1000 kN – from the very accurate BOY 12 up to the powerful BOY 90.

User friendly touchscreen controls and a wide range of equipment is available for a wide range of applications. The product range includes injection moulding machines with vertical clamping and injection units, and with additional individually configurable options.

The design characteristics, which have been consistently applied since the founding of the company - such as the fully hydraulic two-platen clamping system - have proven themselves for many years.

All components – from the clamping and injection unit right up to the drive – have been optimally adapted to each other. The drive, designed with a efficient working servo-motor pump drive, ensures energy savings.

BOY has a leading role in the development of the most modern control techniques. The results of our innovative designs are the very best values in precision, speed, and ease of operation. It is therefore no surprise that BOY injection moulding machines are among the most cost-efficient and therefore economical machines on the market.

In addition to technical aspects, the small footprint of all BOY machines is one of the most impressive features. The cantilevered clamping unit has been designed for optimum use in automation. It allows modern robot systems and other peripheral equipment to be adapted easily.

- An extensive range of fully hydraulic injection moulding machines below 1000 kN
- Easily accessible two-platen clamping system
- Universal machine design
- Economical and cost-efficient production
- High functional reliability
- Intelligent control software with intuitive operation
- Small footprint
- Low machine hour rates

## Experience in real time

### Live demos are better than theoretical ones

Perfect and practical – this is how we present the quality of BOY injection moulding machines.

In showrooms at our factory and at partner companies throughout the world, you can obtain detailed information on the current range of BOY products.

In addition to demonstrations and seminars, individual test series can be carried out there. Mould tests with customer moulds under realistic conditions give proof of the measurable advantages of BOY injection moulding machines.

Due to extensive consultations with the customer, tailored to his individual requirements, the very best machine equipment for the planned production and the respective environment can be exactly determined. This helps to avoid false investments and ensures trouble-free production processes right from the start.

Save time and costs and at the same time check all machine types in operating conditions – this is what we at BOY understand as customer-oriented service:

- Demonstration rooms and consultation centres worldwide
- Demonstration of the horizontal and vertical machines
- Machine test under realistic conditions
- Mould tests using customer moulds
- Design development for specific solutions
- Configurations for specific applications

The versatility of BOY injection moulding machines is demonstrated by their capability to process a multitude of special applications:

- Insert moulding
- Micro injection moulding
- LSR (Liquid Silicone Rubber)
- Elastomer processing
- Thermoset processing
- PIM (Ceramic and Metal Injection Moulding)
- Clean-room technology



*Our in-house showroom/demonstration lab is available for solution oriented discussions, individual test runs, and practical training seminars*

# The full-service package from specialists

## Partnership for secure operation



Service from BOY means customer service and training for all areas of technology from one source:

- Problem analysis and system advice
- Start-up and instructions
- Tailor-made maintenance program
- Immediate repair service
- Calibration service
- Software upgrades
- Oil analysis
- Express dispatch of spare parts
- Practical training and seminars

BOY customers may rely upon a complete and individually Tailor-made full service.

### Spare parts service

At BOY, customer orientation already begins with the construction phase. All injection moulding machines are characterized by maximum ease of maintenance. Special emphasis is put on good documentation, to ensure that the correct parts are supplied. Longer down times due to repairs or maintenance work are therefore practically eliminated.

Volume production and a manageable product range ensure that spare parts can be supplied quickly. Even parts for machines which are over 20 years old are in stock at our central warehouse and are dispatched on the day they are ordered.

### Service network

An extensive field service network ensures that qualified staff is quickly available on site. Thus, there is usually only one visit needed to carry out repair or maintenance work.

Due to modern, IT-supported diagnostics technology, faults can be immediately detected and analyzed. The fast availability of service personnel and spare parts minimizes down times.

### Training

Individually trained personnel increases the efficiency, precision, and operational reliability of BOY injection moulding machines. Therefore, our seminars for machine setters and operators communicate practical knowledge and are oriented towards the daily tasks of the users.

## International presence

### In your vicinity - worldwide

BOY supports you worldwide. With nearly sixty sales and service centres as well as its own company in the USA, BOY is represented on all continents – and it has been for more than 40 years! Highly qualified technical personnel providing advice that is focused on long-term, trustful customer relations is the criteria by which BOY wants to be judged.

In addition to providing expert advice and sales, experienced BOY trained service technicians take care of the machines on site. A decentralized, organized stock of spare parts guarantees fast, trouble-free and a worldwide supply of original parts. This ensures a high level of operational reliability. Customers profit by extensive machine availability and low repair costs.

The quality of the injection moulding machines, the comprehensive support and services, and employee competence are the most important criteria when deciding to make an investment.

- Worldwide presence of competent sales and service partners
- Qualified sales and service personnel
- Comprehensive stock of spare parts on site

The BOY marketing and service network is represented on all continents:

#### Europe

24 distributors

#### America

Sister company in the USA and additionally 13 distributors

#### Africa

6 distributors

#### Middle East

3 distributors

#### Asia and Australia

13 distributors



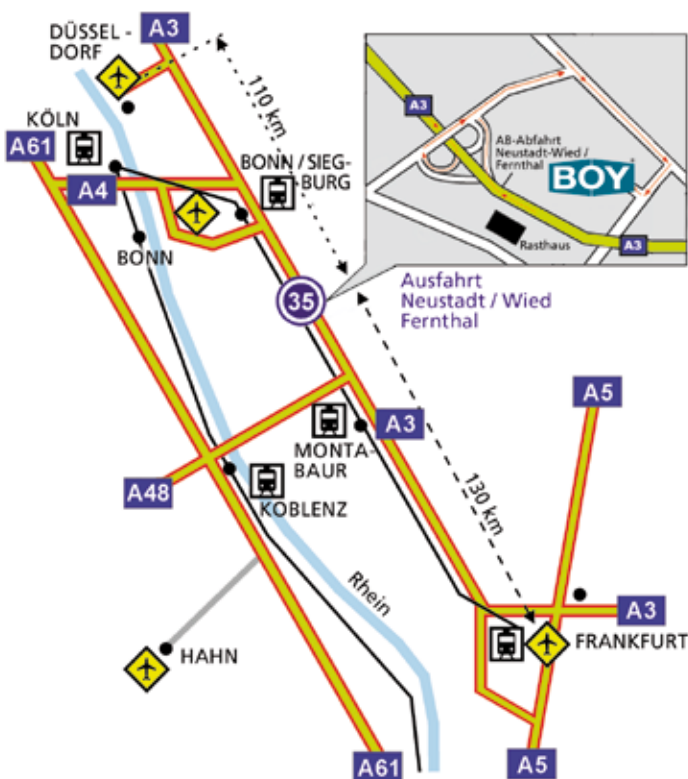
Locations of BOY distributors worldwide



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## GREAT MACHINES — compactly designed



Dr. Boy GmbH & Co. KG  
Neschener Str. 6  
53577 Neustadt-Fernthal  
Germany

Tel.: +49 / 26 83 / 3 07 - 0  
Fax: +49 / 26 83 / 3 27 71  
Internet: [www.dr-boy.de](http://www.dr-boy.de)  
E-Mail: [info@dr-boy.de](mailto:info@dr-boy.de)