



Spritzgiessautomaten



**What users tell us about the E-Series with servo drive**

**GREAT MACHINES —  
compactly designed**

## **The BOY E-Series with servo drive in practice: Users tell us about their production applications**

In 2008 we introduced the servo-motor pump drive (servo-drive) in Europe.



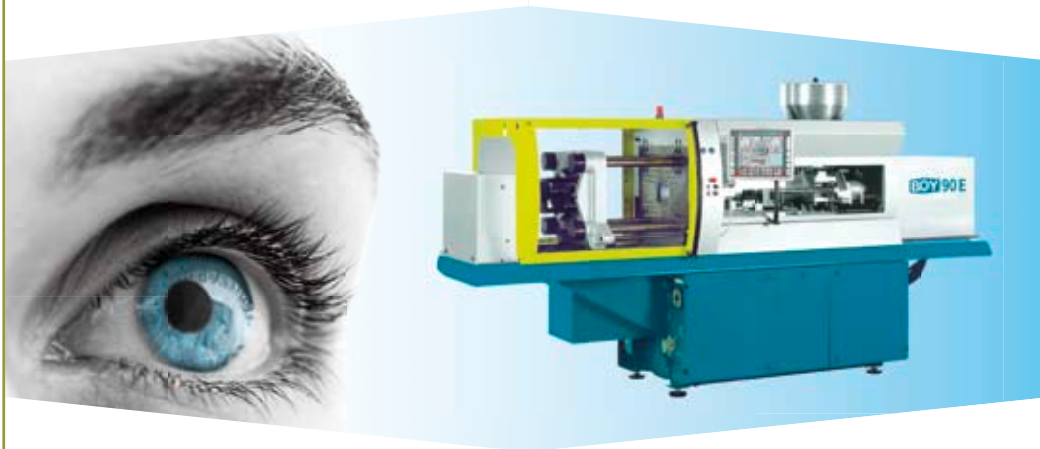
Since then, this drive technology has continued to impress a growing number of customers....

...so much so that many E-Series customers have purchased additional BOY servo drive machines.

Read some representative customers opinions on the following pages.

# Greive GmbH & Co. KG on the efficient E-Series:

## BOY E-Series with Servo-Drive



“For more than 3 decades we have been using BOY injection moulding machines.

We were so impressed with our first BOY 90 E that we immediately ordered another machine.

The low energy consumption, the high precision, the quietness and the reduction of cycle times exceeded all our expectations.”

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Dipl. Ing. Michael Greive  
Greive GmbH & Co. KG  
Ottmarsbocholt  
[www.greive.de](http://www.greive.de)

“It is not enough to just produce well engineered technical products. For us innovative plastic processors, maximizing economic efficiency and environmental safety is equally important today,” according to engineer Michael Greive, Managing Partner.

The Greive GmbH & Co. KG from Ottmarsbocholt, Munsterland celebrates its 60th year in business this year.

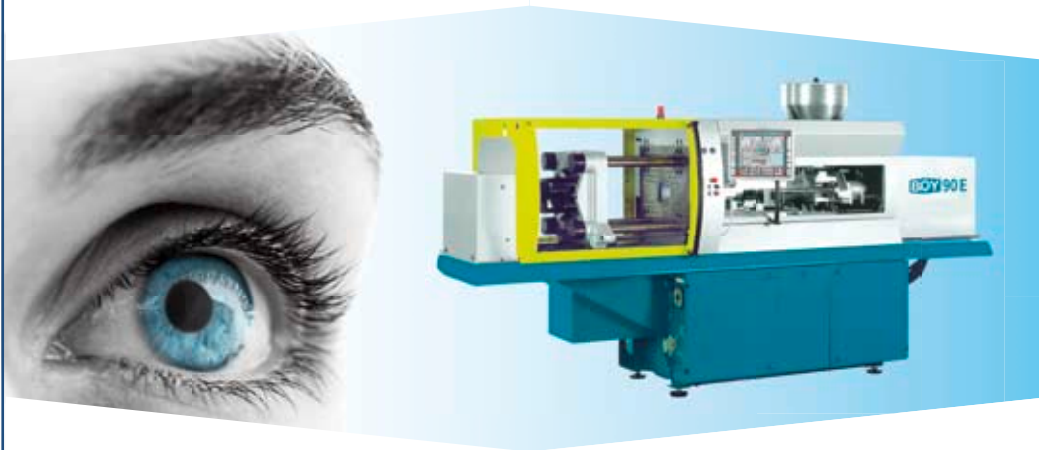
Certified as per DIN EN ISO 9001, this medium-sized company specializes in the production of technical and medical technology parts.

With the addition of their two recently purchased BOY 90 E machines equipped with the energy efficient servo drive, Greive now has 21 BOY injection moulding machines in production.



# CENA Kunststoff GmbH puts it in a nutshell:

## BOY E-Series with Servo-Drive



“We take every possible cost-saving opportunity in our production. The constantly increasing energy and raw material costs force us to use the most efficient machines and technologies.

The BOY E-Series machines precisely meet our expectations. The energy consumption has been reduced by 50%. This fact further confirms that the BOY E-Series machines are helping us to head in the right direction.”

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Ulrike Steiner  
CENA Kunststoff GmbH  
Battenberg  
[www.cena.de](http://www.cena.de)

“An owner-managed company with a great tradition.” This is how Ulrike Steiner, co-partner of CENA Plastics GmbH from Battenberg, characterizes her company's philosophy.

She adds, „We are working efficiently and are environmentally compliant. We face new developments continuously. Because we have a lean company structure, we must be particularly efficient. This enables us to handle client specific developments and the most challenging solutions.”

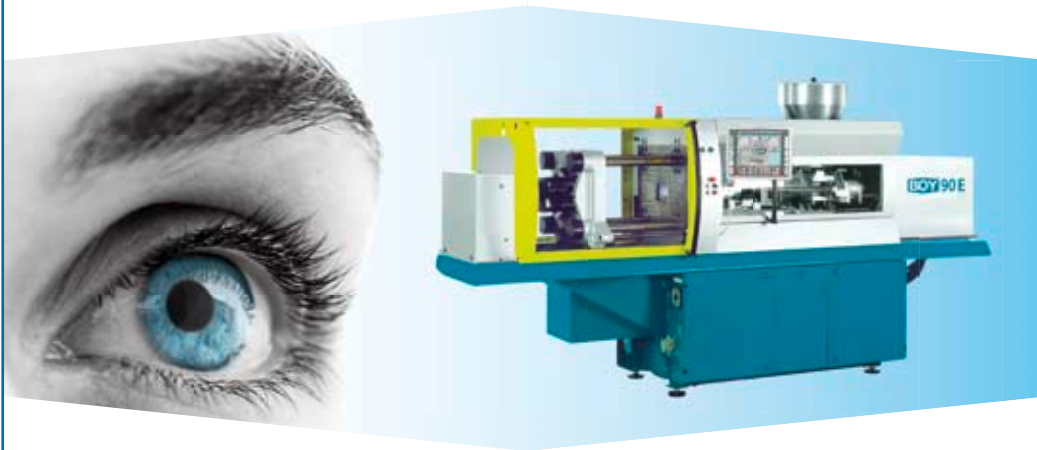
The purchase of two BOY 55 E in November 2009 were so convincing to CENA that two additional BOY 90 E machines were ordered and put into production at the beginning of 2011.

Now with 32 machines in a three-shift operation, CENA mainly produces electro-technical parts and technical components for the medical industry.



# NORWE GmbH reports positive results:

## BOY E-Series with Servo-Drive



“Since 1968 we have always favored using BOY injection moulding machines in our production. We have always been impressed with their on-going technical innovations and good service.

We are especially impressed with the BOY E-Series machines with the servo-drive. The energy savings, precision, dynamic flow and quietness of our first BOY 90 E was so convincing to us that we have since purchased and added 5 additional BOY E-Series machines to our production.”

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René Weiner  
Managing  
Partner,  
Technical Area  
NORWE GmbH  
[www.norwe.eu](http://www.norwe.eu)

NORWE is a world-wide leading developer and manufacturer of coil forms and electronic components.

In 2011, NORWE celebrated 50 years in the production of coil forms.

With 23 BOY injection moulding machines, NORWE is assured of outstanding product quality and the efficient production of nearly 25,000 different coil forms.

“The reliability of our BOY machines has guaranteed on-time delivery to all our world-wide NORWE customers.”

# NORWE®



more compact

One example is the BOY 35 E with a footprint of just 1,9 m<sup>2</sup>.

Accept our offer to perform a machine energy comparison. You will be surprised by how much you can save with the BOY E-Series.



more economical



more flexible

Whether configured horizontally or vertically as an insert moulding machine - the BOY 35 E cuts quite a figure.

State-of-the-art design. Optimal speed and pressure control and positioning accuracy.



more precise



more efficiency

The BOY E-Series requires much less drive energy than former drive technologies. Energy consumption measurements revealed savings up to 75%.

The drive dynamics has been considerably improved. The increased dynamics of movements further reduces cycle times.



more dynamic

## Prevent power cost increases:

### Stop wasting energy by switching to the BOY E-Series with the servo-drive

<b>BOY 35 E</b>	
Drive:	0.45 kWh
Heating:	0.61 kWh
<b>Sum:</b>	<b>1.06 kWh</b>
<b>Competitor machine: 2.51 kWh</b>	
Material:	PVC
Shot weight:	5.8 g
Cycle time:	23.0 s

<b>BOY 55 E</b>	
Drive:	0.80 kWh
Heating:	1.45 kWh
<b>Sum:</b>	<b>2.25 kWh</b>
<b>Competitor machine: 7.70 kWh</b>	
Material:	PE
Shot weight:	33.5 g
Cycle time:	14.8 s

<b>BOY 90 E</b>	
Drive:	0.98 kWh
Heating:	1.12 kWh
<b>Sum:</b>	<b>2.1 kWh</b>
<b>Competitor machine: 10.2 kWh</b>	
Material:	PA 6 30% GF
Shot weight:	45 g
Cycle time:	34.8 s

Comprehensive measurement results have proven just how much the servo-drive can save.

Operating 8,400 hours per year, a BOY 90 E with a servo-motor drive consumes about 68,000 kWh less drive energy than a competitive machine with the same clamping force.

In this example, using a electric utility rate of about 0,14 Euro/kWh, the BOY 90 E would provide a yearly energy cost savings of about 9.500 Euros.

This complies with a considerable monthly surplus load of 792 Euro.

Invest in the efficient BOY E-Series machines and permanently reduce your energy costs. Talk to us - we are here for you at your convenience.

**GREAT MACHINES —  
compactly designed**

**BOY**<sup>®</sup>  
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All BOY horizontal and insert injection moulding machines – from the ultra-compact BOY XS (100 kN clamping force) up to the BOY 90 (900 kN clamping force) – are highly precise and reliable.

Low machine hour rates are the basis for cost effective production.

Take profit from this lead, too! We are happy to advise you. For further information please phone, send an E-mail or fax.

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