

## Parts – related reflection of energy costs

Part description:	Pusher
Material:	PP
Sprue type / weight:	Rod sprue (1,43 g)
Cycle time:	9,3 s
Number of cavities:	4 – fold
Number of parts / h:	1548 pieces
Part weight:	0,3 g / pieces
Shot weight:	2,63 g
Mass temperature:	195° C



### Machine A with old / obsolete drive technology without servo motor drive

Year of construction:	1997
Motor power:	15 kW / 32 cm³
Heating:	5 zones / 4,9 kW
Screw:	Ø 30 mm
Heating element:	Heating tapes

**4,984 kWh**

### Machine B: BOY 35 E with Servo – Drive

Year of construction:	2021
Motor power:	7,4 kW / 20 cm³
Heating:	5 zones / 6,5 kW
Screw:	Ø 28 mm
Heating element:	EconPlast unit

**1,250 kWh**

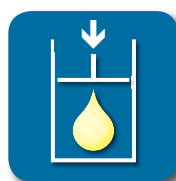
➔ The energy-efficient servo drive and other technological advantages of the E series (such as EconPlast and EconFluid, the optional electro-mechanical injection unit (eSP) as well as a flow-optimised hydraulic system and much more) require **only about a quarter of the energy** (only 25.1 % of the consumption of that of machine A).



**Servo – Drive**



**Unit**



**EconFluid**



**E – Drive**



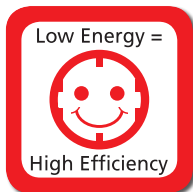
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➔ In two-shift operation with 4,000 operating hours p.a. the BOY 35 E saves a total of 14,936 kWh.

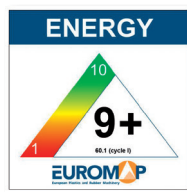
At an average electricity purchase price of € 0.25 / kWh, this means an **annual energy cost saving** of € 3,734,-



**Reduce costs**



**Processing more material**



**Efficiency class (EM 60.1)**

➔ The 14,936 kWh saved, thus **avoid CO<sub>2</sub> – emissions** by 5.47 tonnes.

(Basis: CO<sub>2</sub> factor of 0.366 kg / kWh)



**Avoid emissions**



**More climate – neutral production**

➔ Save valuable floor space in your production. BOY injection moulding machines require **up to 30% less space** than other machines, offering you more space for the **optimal use** of your production area(s).



**Smaller footprint**

Type	m <sup>2</sup>
BOY XS	0.8
BOY 25	1.8
<b>BOY 35</b>	<b>1.96</b>
BOY 50/60	3.25
BOY 80/100	3.98
BOY 125	5.22



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