



Spritzgiessautomaten



**GREAT MACHINES –
compactly designed**

Data and Equipment

Compact range

BOY has become the specialist in the manufacturing of injection moulding machines with clamping forces below 1000 kN. BOY injection moulding machines excel in high precision, consistency, compact design, low energy consumption, and cantilevered two-platen clamping units.

Because of the very favourable price / performance ratio, we have been able to sell nearly 40,000 machines throughout the world since 1968. The BOY brand is very well recognized worldwide and has been present on all continents for over 40 years.

Type / Model



BOY XS
BOY 22 A



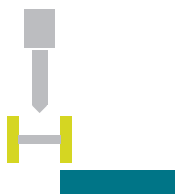
BOY 22 A VH



BOY 35 E VH



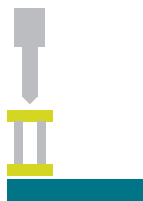
BOY 35 E
BOY 55 E
BOY 90 E



BOY 22 A HV
BOY 35 E HV



BOY XSV
BOY 22 A VV

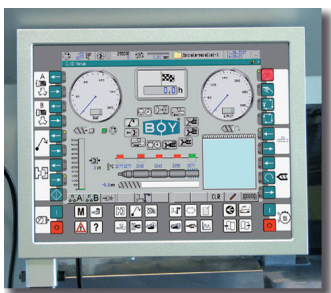


BOY 35 E VV
BOY 55 A VV

Procan ALPHA® - The Industry Standard

With the development of this control system, BOY has set new standards for precision, repeatability and speed. A patented, freely programmable hardware module frees the control system from all time-relevant tasks and performs these same tasks without delay and with very high precision.

The patented iteratively learning controller ensures a more exact and quicker retracing of the specified set values. The **Procan ALPHA®** unit is now even easier to use due to the well arranged 15" full-touch display.



All BOY injection moulding machines are equipped with this control system.

Servo-motor pump drive

The BOY E-Series injection moulding machines are our top models. Our latest innovation, the servo-motor pump drive, exceeds our goal of further reducing energy consumption.

The use of a servo-motor pump drive makes it possible to attain or even surpass the positive features of electro-mechanical machines, while simultaneously avoiding their disadvantages including high investment and spare parts costs, higher level of wear, and higher connected load.

The electricity supply of the drive is cut in half compared to machines with electronically controlled, variable displacement pumps. It is even below that of electro-mechanical machines.

This new drive technology also ensures clear improvements with regard to noise level, precision, and dynamics.

Injection units

EUROMAP	BOY XS	BOY 22	BOY 35	BOY 55	BOY 90
14	■	—	—	—	—
15	—	■	■	—	—
18	—	■	—	—	—
52	—	■	■	■	—
79	—	—	—	■	—
92	—	—	■	—	—
205	—	—	—	■	■
370	—	—	—	—	■

Plasticizing units

Injection units	14	15/18	52	79	92	205	370	
Thermo-plastic	12 mm	■	—	—	—	—	—	
	14 mm	■	■ □	—	—	—	—	
	16 mm	■	—	—	—	—	—	
	18 mm	—	■ ■	■ ■	—	—	—	
	22 mm	—	—	■ ■	—	—	—	
	24 mm	—	—	■ ■	■ ■	■ ■	—	
	28 mm	—	—	■ ■	■ ■	■ ■	■ ■	
	32 mm	—	—	■ ■	■ ■	■ ■	■ ■	
	36 mm	—	—	—	—	—	—	■ ■
	38 mm	—	—	—	—	—	■ ■	—
	42 mm	—	—	—	—	—	■	■ ■
	48 mm	—	—	—	—	—	—	■ ■
Thermoset	18 mm	—	—	■	—	—	—	
	24 mm	—	—	■	—	—	—	
	28 mm	—	—	—	■	■	—	
	32 mm	—	—	—	—	—	■	
	42 mm	—	—	—	—	—	—	■
Elastomer	16 mm	■	—	—	—	—	—	
	22 mm	—	—	■	—	—	—	
	28 mm	—	—	■	—	■	—	
	32 mm	—	—	—	■	■	—	
	38 mm	—	—	—	—	—	■	
	42 mm	—	—	—	—	—	—	■
Silicone (LSR)	14 mm	■	■	—	—	—	—	
	18 mm	—	■	■	—	—	—	
	22 mm	—	—	■	—	—	—	
	32 mm	—	—	■	■	■	—	
	42 mm	—	—	—	—	—	■	
	48 mm	—	—	—	—	—	—	■
PVC-unit	22 mm	—	—	■	—	—	—	
	24 mm	—	—	■	—	—	—	
	28 mm	—	—	—	■	■	—	
	32 mm	—	—	—	—	■	■	
	38 mm	—	—	—	—	—	■	
42 mm	—	—	—	—	—	—	■	

■ Standard

■ Alternative equipment

■ Also available as high wear-resistant unit

□ High-wear resistant quality available as option – not fully suited for fiber reinforced materials

Euromap Size

Injection unit for processing thermoplastics

Screw diameter	mm	
Screw- L/D-ratio		
Max. stroke volume (theoretical)	cm ³	
Max. shot weight in PS	g	
Injection force	kN	
Injection flow	g/s	
Max. spec. injection pressure	bar	
Max. screw stroke	mm	
Nozzle force / contact pressure	kN	
Nozzle retraction stroke	mm	
Screw torque	Nm	
Screw speed (infinitely variable)	U / min.	standard alternatively
Screw pullback force	kN	
Heating power (Nozzle + Cylinder)	W	
Hopper capacity	litre	

Clamping unit

Clamping force	kN	
Tie bar clearance	mm	(h x v)
Max. platen daylight	mm	
Max. opening stroke (adjustable)	mm	
Min. mould height	mm	
Mould opening force	kN	
Mould closing force	kN	
Ejector stroke (max.)	mm	
Ejector force pushing / pulling	kN	

General

Installed driving power / total power	kW
Energy consumption (Euromap 60)	kW/h
Hydraulic system pressure	bar
Oil tank capacity	litre

Dimensions and weights

Dimensions (LxWxH) / Footprint	mm / m ²
Total weight net (without oil)	kg
Total weight gross (without oil)	kg
Case dimensions (LxWxH) approx.	mm

BOY XS / BOY XSV

100-14



with injection unit 14

12	14	16
19,7	16,9	14,6
4,5	6,1	8,0
4,2	5,6	7,8
35,4	35,4	35,4
21	28	31,3
3128	2298	1760
40	40	40
20	20	20
100	100	100
50 (75 bar)	75 (115 bar)	100 (150 bar)
max. 340	max. 340	max. 340
-	-	-
5	5	5
550+800	550+800	550+800
3	3	3

100
 160 (diagonal 205)
 250 (optional 200)
 150
 100 (optional 50)
 15
 10
 50
 8,4 / 8,4

3,0 / 4,35 (400 V)
 1,6
 300
 28

BOY XS

BOY XSV

1480 x 520 x 1380¹ / 0,77
 400
 550
 1500 x 700 x 1500

1100 x 580 x 2160² / 0,64
 435
 650
 1500 x 700 x 2100

1) max. 1690 mm

2) max. 2260 mm

BOY 22 A / BOY 22 A HV / VV / VH

220-15

220-18

with injection unit 15 and 18

14	18
18	20
6,1	10,1
5,6	9,6
37,1	45,7
30,6	45,1
2413	1795
40	40
36	36
180	180
75 (68 bar)	130 (120 bar)
10-500	10-500
34,3	34,3
235+465+2x450+850	235+465+650+650+1200
13	13

220	220
254	254
400	400
200	200
200	200
40	40
17,6	17,6
80	80
18,1/12	18,1/12

5,5 / 7,95 (400 V)	5,5 / 8,7 (400 V)
3,4	3,4
160	160
115 / 105 ³	115 / 105 ³

BOY 22

BOY 22 VV

2283 x 908 x 1679	1916 x 806 x 2549 ⁴
770	860
930	1090
2300 x 960 x 1600	2050 x 1040 x 2110

3) VV and VH machines

4) max. 2927 mm

BOY 22 A / BOY 22 A HV / VV / VH

220-52

with injection unit 52 (standard)

18	22
20	17,5
20	30
19,4	28,4
65,8	65,8
35,1	49,7
2587	1732
80	80
48	48
180	180
130 (120 bar)	220 ¹ / 360 ²
10-500	10-400 ¹
	10-250 ²
45,7	45,7
200+450+700+650+1250=3250	200+450+750+750+1400=3550
13	13

220	220
254	254
400	400
200	200
200	200
40	40
17,6	17,6
80	80
18,1/12	18,1/12

5,5 / 8,7 (400 V)	5,5 / 9,05 (400 V)
3,4	3,4
160	160
115 / 105 ³	115 / 105 ³

BOY 22 A

BOY 22 A HV

2283 x 908 x 1679 / 2,07

2283 x 1040 x 2790 / 2,37

770

900

930

1110

2300 x 960 x 1600

2600 x 1200 x 1900

1) when using a hydraulic motor with a pump volume of 100 cm³

2) when using a hydraulic motor with a pump volume of 160 cm³



with injection unit 52 (standard)

24	28	32
22	18,6	16,3
36	49	64
34	47	61,6
65,8	65,8	65,8
59,4	87,0	102,0
1455	1069	818
80	80	80
48	48	48
180	180	180
220 ¹ / 360 ²	220 ¹ / 360 ²	220 ¹ / 360 ²
10 - 400 ¹	10 - 400 ¹	10 - 400 ¹
10-250 ²	10-250 ²	10-250 ²
45,7	45,7	45,7
200 + 700 + 2 x 1250 + 2400 = 5800		
13	13	13

220	220	220
254	254	254
400	400	400
200	200	200
200	200	200
40	40	40
17,6	17,6	17,6
80	80	80
18,1/12	18,1/12	18,1/12

5,5 / 11,3 (400 V)	5,5 / 11,3 (400 V)	5,5 / 11,3 (400 V)
3,4	3,4	3,4
160	160	160
115 / 105 ³	115 / 105 ³	115 / 105 ³

BOY 22 A VV

BOY 22 A VH

1916 x 806 x 2549⁴ / 1,54

1856 x 932 x 1897⁵ / 1,73

860

860

1090

1080

2050 x 1040 x 2110

2130 x 1050 x 2080

3) VV and VH machines

4) max. 2927 mm

5) max. 1938 mm

BOY 35 E / BOY 35 E HV

350-15

350-52

with injection unit 15		with injection unit 52	
14	18	22	
18	20,0	17,5	
6,1	20	30	
5,6	19,4	28,4	
37,1	65,8	65,8	
36	42	59	
2413	2587	1732	
40	80	80	
36 / 30	48 / 30	48 / 30	
205	205	205	
75 (68 bar)	130 (120 bar)	220 ¹ / 360 ²	
10-500	10-500	10-480 ¹	
		10-300 ²	
34,3	45,7	45,7	
2560	3250	3550	
7,5	13	13	
<hr/>			
350	350	350	
280 x 254	280 x 254	280 x 254	
500	500	500	
300	300	300	
200	200	200	
29,5	29,5	29,5	
21,4	21,4	21,4	
	80 (130)		
	23,8 / 15,8	(23,8 / 15,8)	
<hr/>			
5,1 / 7,66 (400 V)	5,1 / 8,35 (400 V)	5,1 / 8,65 (400 V)	
3,3	3,3	3,3	
210	210	210	
65	65	65	

BOY 35 E

BOY 35 E HV

2369 x 807 x 1959 / 1,91

2369 x 832 x 2897³ / 1,97

1195

1360

1340

1505

2300 x 850 x 1750

2300 x 850 x 1750

1) when using a hydraulic motor with a pump volume of 100 cm³



350-92

with injection unit 92 (standard)

24	28	32
22,0	18,6	16,3
43,0	58,5	76,5
41	55,8	73,7
97	97	97
63	85	128
2146	1577	1207
95	95	95
48 / 30	48 / 30	48 / 30
205	205	205
280 ¹ / 430 ²	280 ¹ / 430 ²	280 ¹ / 430 ²
10-300 ²	10-300 ²	10-300 ²
10-480 ¹	10-480 ¹	10-480 ¹
45,7	45,7	45,7
200 + 700 + 2 x 1250 + 2400 = 5800		
20	20	20

350	350	350
280 x 254	280 x 254	280 x 254
500	500	500
300	300	300
200	200	200
29,5	29,5	29,5
21,4	21,4	21,4
80 (130)		
23,8 / 15,8		(23,8 / 15,8)

5,1 / 10,9 (400 V)	5,1 / 10,9 (400 V)	5,1 / 10,9 (400 V)
3,3	3,3	3,3
210	210	210
65	65	65

BOY 35 E

BOY 35 E HV

2393 x 989 x 1930 / 2,36

2369 x 832 x 2897³ / 1,97

1195

1360

1340

1505

2300 x 850 x 1750

2300 x 850 x 1750

2) when using a hydraulic motor with a pump volume of 160 cm³

3) max. 3115 mm

BOY 35 E VV / BOY 35 E VH

350-15

350-52

with injection unit 15

with injection unit 52

14	18	22
18	20,0	17,5
6,1	20	30
5,6	19,4	28,4
37,1	65,8	65,8
36	42	59
2413	2587	1732
40	80	80
36 / 30	48 / 30	48 / 30
205	205	205
75 (68 bar)	185 (80 cm ³)	220 ¹ / 360 ²
10-500	10-500	10-480 ¹ 10-300 ²
34,3	45,7	45,7
2560	3250	3550
- / 13	- / 20	- / 20

350	350	350
280 x 254	280 x 254	280 x 254
500	500 ⁴	500 ⁴
300	300	300
200	200 ⁴	200 ⁴
29,5	29,5	29,5
21,4	21,4	21,4
80	80	80
23,8 / 15,8	23,8 / 15,8	23,8 / 15,8

5,1 / 7,66 (400 V)	5,1 / 8,35 (400 V)	5,1 / 8,65 (400 V)
3,4	3,4	3,4
210	210	210
65	65	65

BOY 35 E VV

BOY 35 E VH

2057 x 820 x 2740³ / 1,69

2055 x 778 x 2336⁵ / 1,60

1420

1450

1670

1700

2200 x 1080 x 2250

2200 x 1080 x 2250

1) when using a hydraulic motor with a pump volume of 100 cm³

2) when using a hydraulic motor with a pump volume of 160 cm³

350-92



with injection unit 92 (standard)

24	28	32
22,0	18,6	16,3
43	58,5	76,5
41	55,8	73,7
97	97	97
63	85	128
2146	1577	1207
95	95	95
48 / 30	48 / 30	48 / 30
205	205	205
280 ¹ / 430 ²	280 ¹ / 430 ²	280 ¹ / 430 ²
10-300 ²	10-300 ²	10-300 ²
10-480 ¹	10-480 ¹	10-480 ¹
45,7	45,7	45,7
$200 + 700 + 2 \times 1250 + 2400 = 5800$		
- / 20	- / 20	- / 20

350	350	350
280 x 254	280 x 254	280 x 254
500 ⁴	500 ⁴	500 ⁴
300	300	300
200 ⁴	200 ⁴	200 ⁴
29,5	29,5	29,5
21,4	21,4	21,4
80	80	80
23,8 / 15,8	23,8 / 15,8	23,8 / 15,8

5,1 / 10,9 (400 V)	5,1 / 10,9 (400 V)	5,1 / 10,9 (400 V)
3,4	3,4	3,4
210	210	210
65	65	65

BOY 35 E VV

BOY 35 E VH

2057 x 820 x 2740³ / 1,69

2055 x 778 x 2336⁵ / 1,60

1420

1450

1670

1700

2200 x 1080 x 2250

2200 x 1080 x 2250

3) max. 3380 mm

5) max. 2440 mm

4) optional 100 mm larger

BOY 55 E

550-52

with injection unit 52

18	22
20,0	17,5
20,0	30,0
19,4	28,4
65,82	65,82
38	54
2587	1732
80	80
48	48
180	180
130 (120 bar)	220 ¹ / 360 ²
10-500	10-400 ¹
	10-250 ²
45,7	45,7
200+450+700+650+1250=3250	200+450+750+750+1400=3550
13	13

550	550
360 x 335	360 x 335
650	650
400	400
250	250
38	38
24,4	24,4
80 (130) (150)	
20,4 / 13,5 (20,4 / 13,5) (42,7 / 30)	

11 / 14,3 (400 V)	11 / 14,6 (400 V)
4,6	4,6
180	180
200	200

3250 x 1130 x 2040 / 3,67

2250

2580

3450 x 1160 x 1920

1) when using a hydraulic motor with a pump volume of 100 cm³

550-79



with injection unit 79

24	28	32
22,0	18,6	16,3
43,0	58,5	76,5
38	52	68
83	83	83
92	125	130
1810	1340	1030
95	95	95
48	48	48
180	180	180
240 ¹ / 400 ²	240 ¹ / 400 ²	240 ¹ / 400 ²
10-250 ²	10-250 ²	10-250 ²
10-400 ¹	10-400 ¹	10-400 ¹
45,7	45,7	45,7
$200 + 700 + 2 \times 1250 + 2400 = 5800$		
20	20	20

550	550	550
360 x 335	360 x 335	360 x 335
650	650	650
400	400	400
250	250	250
38	38	38
24,4	24,4	24,4
80 (130) (150)		
20,4 / 13,5 (20,4 / 13,5) (42,7 / 30)		

11 / 16,8 (400 V)	11 / 16,8 (400 V)	11 / 16,8 (400 V)
4,6	4,6	4,6
180	180	180
200	200	200

3250 x 1130 x 2040 / 3,67

2250

2580

3450 x 1160 x 1920

2) when using a hydraulic motor with a pump volume of 160 cm³

BOY 55 E

550-205

with injection unit 205 (standard)

28	32
22,7	20
73,9	96,5
71,1	92,3
171	171
69,1	91,2
2778	2127
120	120
66	66
210	210
$390^1 / 490^2$	$390^1 / 490^2$

$$10 - 325^2 / 450^2$$

$$10 - 410^1 / 560^1$$

29,7	29,7
$200 + 900 + 2 \times 2100 + 2400 = 7700$	
58	58

550	550
360×335	360×335
650	650
400	400
250	250
38	38
24,4	24,4

$$80 \quad (130) \quad (150)$$

$$20,4 / 13,5 \quad (20,4 / 13,5) \quad (42,7 / 30)$$

11 / 18,7 (400 V)	11 / 18,7 (400 V)
4,6	4,6
180	180
200	200

$$3250 \times 1130 \times 2040 / 3,67$$

$$2250$$

$$2580$$

$$3450 \times 1160 \times 1920$$

1) when using a hydraulic motor with a pump volume of 162 cm³

550-205



with injection unit 205 (standard)

38	42
16,7	15
136,1	166,3
129,8	158,9
171	171
128,3	153,3
1508	1235
120	120
66	66
210	210
390 ¹ / 490 ²	390 ¹ / 490 ²

10 - 325² / 450²

10 - 410¹ / 560¹

29,7	29,7
200 + 900 + 2 x 2100 + 2400 = 7700	
58	58

550	550
360 x 335	360 x 335
650	650
400	400
250	250
38	38
24,4	24,4

80 (130) (150)

20,4 / 13,5 (20,4 / 13,5) (42,7 / 30)

11 / 18,7 (400 V)	11 / 18,7 (400 V)
4,6	4,6
180	180
200	200

3250 x 1130 x 2040 / 3,67

2250

2580

3450 x 1160 x 1920

2) when using a hydraulic motor with a pump volume of 204 cm³

BOY 55 V

550-205⁴

with injection unit 205⁵(standard)

28	32
22,7	20
73,9	96,5
71,1	92,3
171	171
58,2	76,9
2778	2127
120	120
66	66
210	210
390 ¹ / 490 ²	390 ¹ / 490 ²

10 - 325²

10 - 410¹

29,7	29,7
200 + 900 + 2 x 2100 + 2400 = 7700	
-	-

550	550
360 x 335	360 x 335
550	550
300	300
250	250
38	38
24,4	24,4
80	80
20,4 / 13,5	20,4 / 13,5

11 / 18,7 (400 V)	11 / 18,7 (400 V)
6,5	6,5
180	180
200	200

3000 x 1110 x 3190³ (2960^{4,5}) / 3,33

2520

2700

3150 x 1350 x 2250

- 1) when using a hydraulic motor with a pump volume of 162 cm³
- 2) when using a hydraulic motor with a pump volume of 204 cm³

550-205⁴



with injection unit 205⁵ (standard)

38	42
16,7	15
136,1	166,3
129,8	158,9
171	171
108,2	129,3
1508	1235
120	120
66	66
210	210
390 ¹ / 490 ¹	390 ¹ / 490 ²

10 - 325²

10 - 410¹

29,7	29,7
------	------

200 + 900 + 2 x 2100 + 2400 = 7700

-

-

550	550
360 x 335	360 x 335
550	550
300	300
250	250
38	38
24,4	24,4
80	80
20,4 / 13,5	20,4 / 13,5

11 / 18,7 (400 V)

11 / 18,7 (400 V)

6,5

6,5

180

180

200

200

3000 x 1110 x 3190³ (2960^{4,5}) / 3,33

2520

2700

3150 x 1350 x 2250

3) max. 3700 mm

4) also available with injection unit 79 (see page 15)

5) max. 3240 mm

BOY 90 E

900-205

with injection unit 205

28	32	38	42
22,7	20	16,7	15
73,9	96,5	136,1	166,3
71,1	92,3	129,8	158,9
171	171	171	171
97,3	126,2	179,1	213,3
2778	2127	1508	1235
120	120	120	120
66	66	66	66
210	210	210	210
390 ¹ / 490 ²	390 ¹ / 490 ²	390 ¹ / 490 ²	390 ¹ / 490 ²

10 - 350²

10 - 350¹

29,7	29,7	29,7	29,7
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$$200 + 900 + 2 \times 2100 + 2400 = 7700$$

58	58	58	58
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900	900	900	900
430 x 360	430 x 360	430 x 360	430 x 360
725	725	725	725
475	475	475	475
250	250	250	250
65	65	65	65
47,2	47,2	47,2	47,2

130 (150)

20,4 / 13,5 (42,7 / 30)

15 / 22,7 (400 V)	15 / 22,7 (400 V)	15 / 22,7 (400 V)	15 / 22,7 (400 V)
3,3	7,6	7,6	7,6
180	180	180	180
200	200	200	200

3850 x 1210 x 2200 / 4,65

3150

3530

3980 x 1280 x 2000

1) when using a hydraulic motor with a pump volume of 162 cm³

2) when using a hydraulic motor with a pump volume of 204 cm³

900-370



with injection unit 370 (standard)

36	42	48
23	20	17
157,8	214,7	280,5
142	193	252
239	239	239
136,5	184,3	236,7
2347	1724	1320
155	155	155
65	65	65
250	250	250
700 ³ / 735 ⁴	700 ³ / 735 ⁴	700 ³ / 735 ⁴
10-280 ³	10-280 ³	10-280 ³
10-250 ⁴	10-250 ⁴	10-250 ⁴
53	53	53
250 + 750 + 2 x 3100 + 4050 = 11250		
58	58	58

900	900	900
430 x 360	430 x 360	430 x 360
725	725	725
475	475	475
250	250	250
65	65	65
47,2	47,2	47,2
130 (150)		
20,4 / 13,5 (42,7 / 30)		

15 / 26,25 (400 V)	15 / 26,25 (400 V)	15 / 26,25 (400 V)
7,6	7,6	7,6
180	180	180
200	200	200

3850 x 1210 x 2200 / 4,65

3150

3530

3980 x 1280 x 2000

3) when using a hydraulic motor with a pump volume of 300 cm³

4) when using a hydraulic motor with a pump volume of 348 cm³

Equipment

Injection unit

- Pivoting injection unit
- Preset screw speed values with ramping transition
- Cold start protection
- Number of injection speed steps constant / ramp-like
- Number of injection pressure steps constant / ramp-like
- Start of holding pressure dependent on hydraulic pressure, stroke and time
- Start of holding pressure, cavity pressure-dependent
- Number of holding pressure values
- Production monitoring at start of holding pressure
- Closed loop control for the complete injection profile and back pressure
- Control for intrusion-injection
- PID microprocessor-controlled heating zones for cylinder + nozzle set and temp. display
- Thermocouple controlled nozzle zone
- Hydraulically actuated needle shut-off nozzle (pneumatic for XS-LSR)
- Slide-away for quick material change (BOY 35 VV / BOY 55 VV without hopper)
- Automatic material loader / feeder
- High wear-resistant plasticizing units
- Adjustable nozzle force
- Delayed nozzle retraction
- Servo-electric screw drive (separate feed line required)

Clamping unit

- Reduced mould height by 50 mm
- Number of mould closing speed ranges
- Number of mould opening speed ranges
- Number of reopening attempts after mould closing
- Hydr. ejector with dig. adjustable pressure, speed, position + no. of strokes, intermediate stop position
- Hydraulic ejector with adjustable stroke 80 mm (for XS = 50 mm)
- Hydraulic ejector with adjustable stroke 130 mm
- Hydraulic ejector with adjustable stroke 150 mm and 42,7 kN force
- Hydraulic unscrewing device, one direction of rotation with intermediate stop
- Hydraulic unscrewing device, two directions of rotation with intermediate stop and counter
- Core pull control with 4/3 way directional control valve and freely selectable operational programmes
- Injection compression (coining) and breathing
- Hydraulic guard safety device
- Self adjusting mechanical drop bar safety system with electronic monitor
- Safety gate for handling devices
- Pneumatically operated safety gate
- Selection flap
- Air ejection
- Mould lifting crane
- Simultaneous ejector movement (with double pump)
- Integrated sprue picker

■ Standard

○ Alternative

□ Optional

— Not available

BOY XS		BOY 22		BOY 35		BOY 55		BOY 90
A	AV	A	AV	E	EV	E	AV	E
-	-	-	-	■	-	■	-	■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8
0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2
■	■	■	■	■	■	■	■	■
-	-	□	□	□	□	□	□	□
8	8	8	8	8	8	8	8	8
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
2+1 □	2+1 □	5	5	5	5	5	5	5
□	□	■	■	■	■	■	■	■
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Equipment

Electronics

- USB interface for access and data exchange
- Interface kit: Serial/Temperature device, USB/Printer and Ethernet/OPC
- 4 freely programmable inputs/outputs
- Piece counter / interval signal
- Preselect cycle counter with auto shut-off
- Grounded socket outlet 230 V ~ / 10 A (XS = 6 A)
- Grounded socket outlet 230 V ~ / 10 A, switched
- CEE socket outlet 400 V ~ / 16 A
- CEE socket outlet 400 V ~ / 16 A, switched
- Socket distributor 3 x 400 V ~ / 3 x 230 V ~ (separate feed line required)
- Switch cabinet ventilation
- Interface for weigh device (110 V ~ / 230 V ~) 10 pol. Harting
- Standardized interface for handling units (EUROMAP 12/67)
- Separate feeder (heating and motor current)
- 7-day timer
- Additional temperature control
- Brush control
- Connector for safety switch to inhibit mould closing
- Integrated hot runner control, 8-fold (separate feed line required)
- Energy-optimized motor control with soft start
- Air conditioning unit for control cabinet
- Alarm signal with sound

Hydraulics

- Electronically controlled variable pump
- Servo-motor pump drive
- Oil preheating circuit automatic
- Oil temperature gauge / Controlled oil cooling / Oil level indicator
- Oil level and temperature monitoring
- Optical oil filter contamination indicator
- Water-cooled pump drive motor
- Proportional action valve for the clamping unit
- Proportional valve with stroke feedback and positioning action for clamp unit

General

- Cooling water distributor with electric shut-off valve for injection mould and feet throat
- 6 / 8-zone water distributor
- Tool kit
- Spare parts package
- Oil filling
- Anti-vibration mounts

■ Standard

○ Alternatively

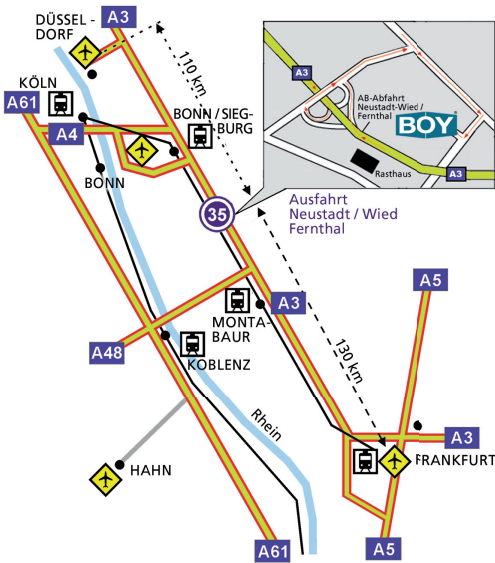
□ Optional

— Not available

BOY XS		BOY 22		BOY 35		BOY 55		BOY 90
A	AV	A	AV	E	EV	E	AV	E
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