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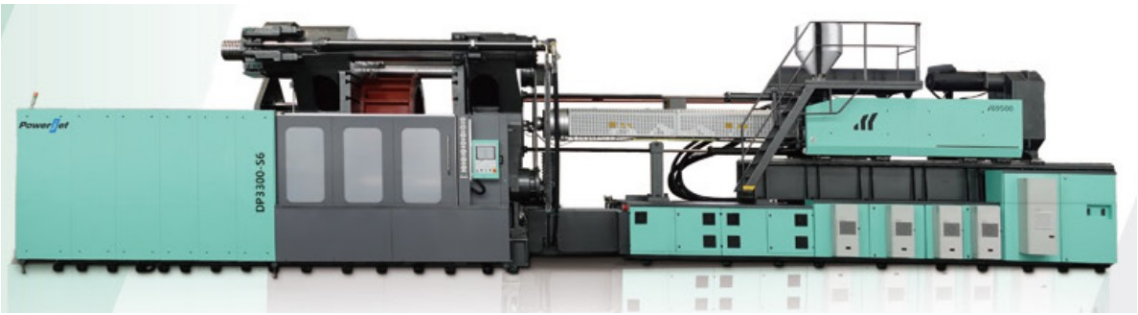
Exclusive PowerJet Distributor

PowerJet DP Series

Two-Platen Servo-Hydraulic Injection Molding Machines

6 500 – 33 000 kN | 12 machine sizes

Product Catalogue



01	02	03	04
Large opening stroke	**Smaller footprint**	**Servo-hydraulic drive**	**Wide size range**
Up to 4 200 mm maximum daylight – for deep-cavity products	No rear platen: less floor space at the same clamping force	30–50% energy saving vs. conventional hydraulic machines	6 500 – 33 000 kN, 12 sizes – from logistics to automotive

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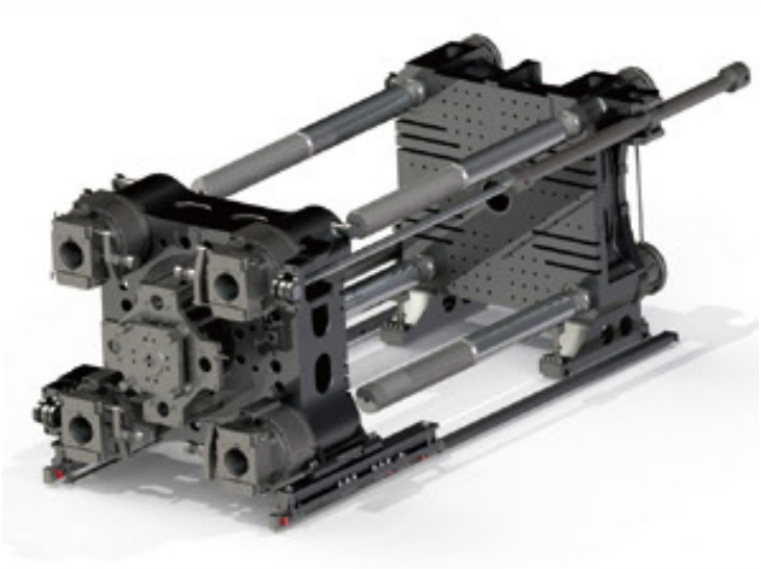
1. Two-Platen Clamping Unit

Key distinguishing feature of the DP series – direct hydraulic clamping

The DP series features a two-platen direct hydraulic clamping unit. The rear platen and toggle mechanism used in conventional toggle machines are replaced by four high-stage hydraulic clamping cylinders integrated directly into the moving platen. These cylinders lock the tie bars running through the machine into the moving platen and apply the clamping force directly.



Advantages of two-platen design

Large opening stroke (daylight)

For the same clamping force, less floor space is required than with conventional toggle machines. The DP series maximum daylight ranges from 1 850 to 4 200 mm depending on size. Essential for deep-cavity parts (e.g. 1 100 l waste containers).

No mold height adjustment

The direct clamping system automatically compensates for varying mold heights (automatic mold thickness adjustment) – no manual setup required after a mold change.

Smaller footprint

Without a rear platen, the DP machine is shorter than a toggle machine of the same clamping force. Less factory floor space is needed for the same production capacity.

Clamping system design

Four independent clamping cylinders

The four high-stage clamping cylinders distribute the clamping force evenly across the four corners of the moving platen – minimal mold platen deformation, precise and reproducible clamping force.

Innovative locking mechanism

The synchronous split-nut locking mechanism is fast and precise – operating with high speed and accuracy, low noise level.

Linear-rail moving platen guidance

The moving platen runs on linear rails – low friction, minimal energy loss, long service life and stable, uniform positioning.

2. Servo-Hydraulic Drive System

Energy-efficient, quiet, precise

Servo-hydraulic drive

The DP series servo-hydraulic drive controls the hydraulic pump with a variable-speed servo motor. The system consumes only as much energy as the process actually requires – no unnecessary delivery, no excess heat generation.

30–50% energy saving compared to conventional hydraulic machines

Low inertia, low noise level, fast dynamic response. Optionally, servo-electric metering further reduces energy consumption – more than 30% saving compared to conventional hydraulic motor metering.

3. Injection Unit

High L/D ratio screws | precise injection | proportional back pressure control

The DP series injection unit features a horizontal, dual-cylinder injection system. The screws have a high L/D ratio, improving plasticizing capacity and melt quality. Proportional back pressure control with digital control ensures precise melt homogenization. Two-stage (dual) injection cylinder: dual-cylinder injection positioning – more stable operation, more accurate centering.

4. Frame and Machine Structure

Stable, rigid, long-service-life design

The DP series frame is optimized using finite element analysis (FEA). The ejector cylinder is integrated within the frame, resulting in a shorter frame and smaller footprint. The automatic centralized greasing system of the moving platen clamping unit keeps the machine clean, lowers maintenance costs and extends service life. The clamping unit components are automatically lubricated – no manual lubrication required from the operator.

5. KEBA Control System

12" touchscreen | 100 µs CPU | 1 000 mold memory

KEBA – Fast, precise, user-friendly

The KEBA control system features a 12-inch touchscreen and 100 µs CPU processing cycle. 1 000 mold memory positions minimize downtime during product changeover.

- 12" large touchscreen – swivel, ergonomic
- CPU 100 µs – fast response, high control accuracy
- 1 000 mold memory positions – fast and error-free changeover
- Automatic mold height adjustment (DP-specific)
- SPC (Statistical Process Control) real-time list
- USB program update – simple software maintenance
- Factory networking connection prepared

6. Why PowerJet DP?

6 key strengths of the series – sales summary

Large opening stroke Up to 4 200 mm maximum daylight – production of deep-cavity products (waste containers, IBC tanks, pallets) impossible on toggle machines.	**Smaller footprint** No rear platen – shorter frame, less factory floor space for the same clamping force. Particularly advantageous in tight production halls.	**Energy-efficient drive** Servo-hydraulic drive: 30–50% energy saving vs. conventional hydraulic machines. Linear-rail moving platen: low friction, additional energy savings.
No mold height adjustment Automatic mold thickness adjustment: no manual setup after mold change. Faster changeover, less operator intervention, shorter downtime.	**Wide size range** 6 500 – 33 000 kN clamping force, 12 machine sizes. Identical technology platform and control system across the series – uniform operating experience.	**CIS Hungarian support** Exclusive distributor. Local service, spare parts supply, commissioning, training, full local support.

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PowerJet DP650-S6

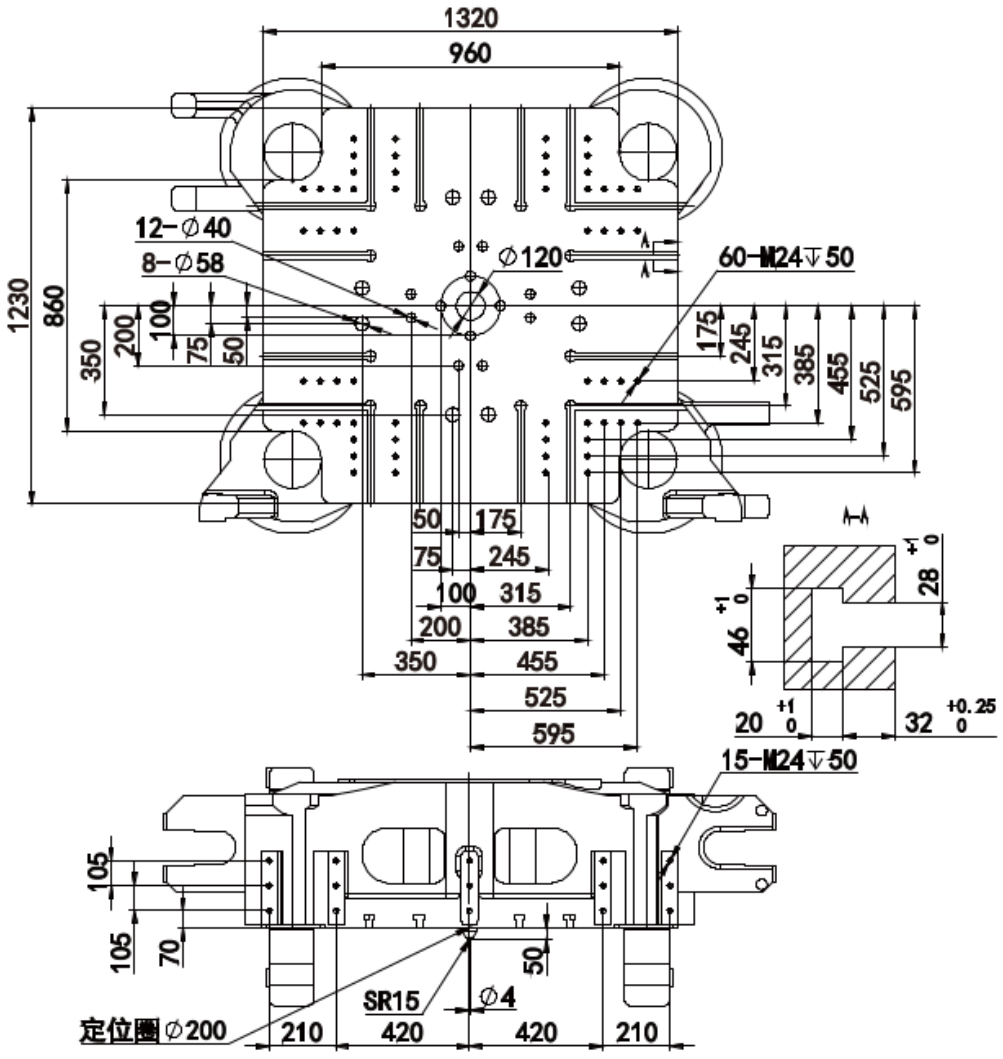
Two-Platen Servo-Hydraulic Injection Molding Machine

6 500 kN

≈ 650 ton clamping force

Product description

The DP650-S6 is the compact member of the PowerJet DP series, equipped with a two-platen direct hydraulic clamping unit. The toggle-less design provides a smaller footprint and larger opening stroke than comparable toggle machines of the same clamping force. Ideal for pallets, crates, waste containers and large automotive parts. The servo-hydraulic drive and linear-rail moving platen ensure stable, fast and energy-efficient operation.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**6 500**
Mold opening stroke	mm	**1500 / 900**
Daylight (max.)	mm	**1 850**
Space between tie bars	mm	**960 × 860**
Mold thickness (min–max)	mm	**350 – 950**
Ejector stroke	mm	**300**
Ejector force (theoretical)	kN	**166**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**2 × 44**
Heating capacity (STD)	kW	**47**
Oil tank capacity (STD)	l	**1 000**
Machine dimensions L × W × H (STD)	m	**8.3×3.0×2.6**
Machine weight – STD (approx.)	t	**23**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i5100**	85	24.4	191	2 667	2 427	642	89	145
□ **i5100**	90	22.7	170	2 990	2 721	793	90	145
□ **i5100**	100	20.2	138	3 691	3 359	893	136	145
■ **i5500**	85	24.4	213	2 553	2 324	551	89	145
■ **i5500**	90	22.7	190	2 863	2 605	617	90	145
■ **i5500**	100	20.2	154	3 534	3 216	762	136	145
□ **i6900**	90	24.5	206	3 340	3 039	598	78	125
□ **i6900**	100	22	167	4 123	3 752	738	117	125
□ **i6900**	110	20	138	4 989	4 540	893	154	125

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP800-S6

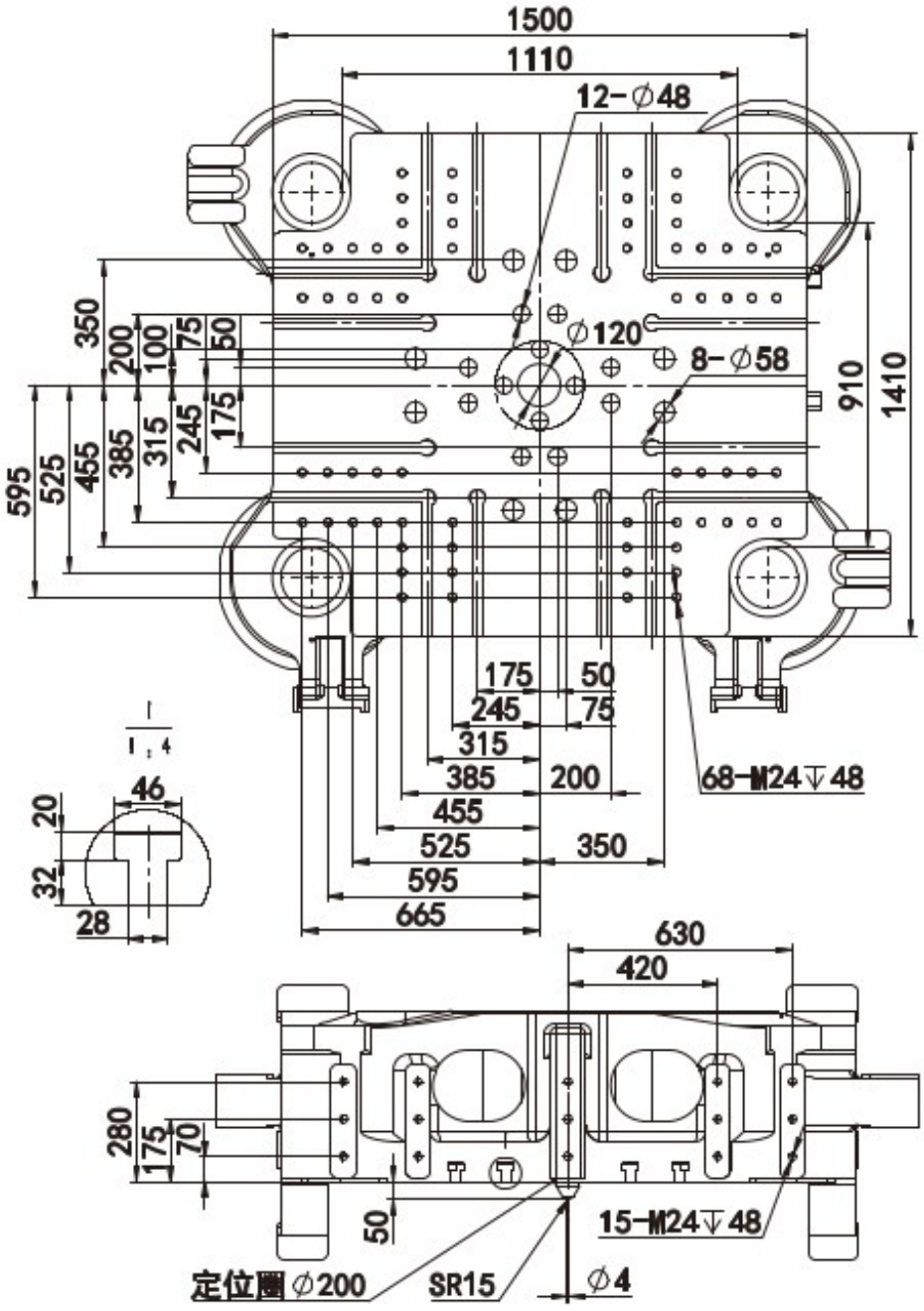
Two-Platen Servo-Hydraulic Injection Molding Machine

8 000 kN

≈ 800 ton clamping force

Product description

The DP800-S6 is a two-platen direct hydraulic clamping machine with 8 000 kN clamping force. Its large mold area (1 110 × 910 mm tie bar distance) and 2 050 mm maximum daylight enable the production of deep-cavity, large-size parts. The servo-hydraulic drive provides low energy consumption and precise process control. Wide industrial application from packaging to automotive.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**8 000**
Mold opening stroke	mm	**1600 / 1000**
Daylight (max.)	mm	**2 050**
Space between tie bars	mm	**1110 × 910**
Mold thickness (min–max)	mm	**450 – 1050**
Ejector stroke	mm	**300**
Ejector force (theoretical)	kN	**166**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**2 × 44**
Heating capacity (STD)	kW	**52**
Oil tank capacity (STD)	l	**1 000**
Machine dimensions L × W × H (STD)	m	**7.8×2.5×2.4**
Machine weight – STD (approx.)	t	**25**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm^3)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i5100**	85	24.4	191	2 667	2 427	642	89	145
□ **i5100**	90	22.7	170	2 990	2 721	793	90	145
□ **i5100**	100	20.2	138	3 691	3 359	893	136	145
■ **i6900**	90	24.5	206	3 340	3 039	598	78	125
■ **i6900**	100	22	167	4 123	3 752	738	117	125
■ **i6900**	110	20	138	4 989	4 540	893	154	125

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP850-S6

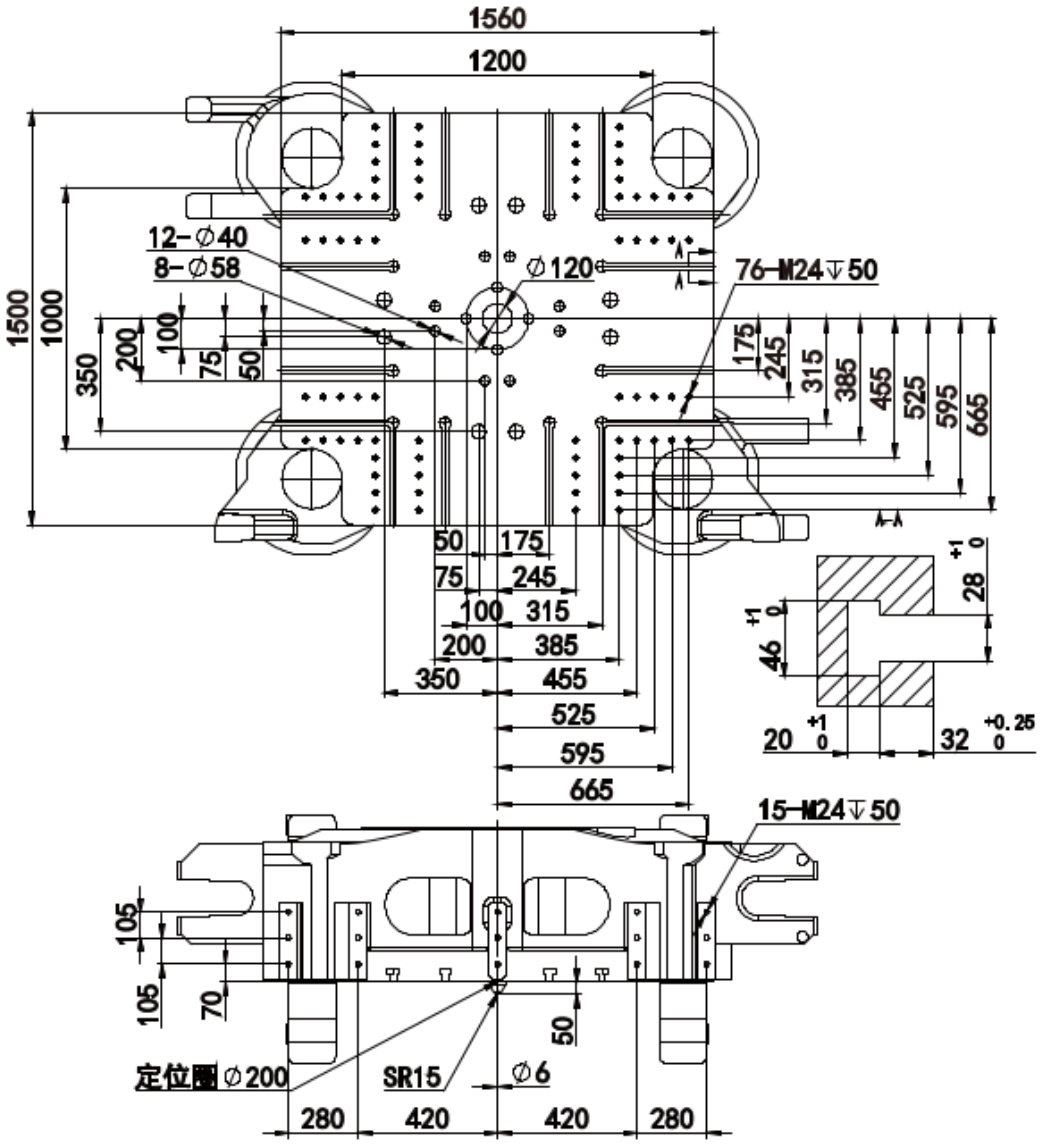
Two-Platen Servo-Hydraulic Injection Molding Machine

8 500 kN

≈ 850 ton clamping force

Product description

The DP850-S6 is an 8 500 kN two-platen machine with 1 200 × 1 000 mm tie bar distance and 2 200 mm daylight. Its large mold area enables the production of deep, complex-geometry parts. The servo-hydraulic drive and linear-rail moving platen ensure precise, repeatable processes. An optimal choice for logistics, automotive and household appliance applications.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**8 500**
Mold opening stroke	mm	**1750 / 1100**
Daylight (max.)	mm	**2 200**
Space between tie bars	mm	**1200 × 1000**
Mold thickness (min–max)	mm	**450 – 1100**
Ejector stroke	mm	**300**
Ejector force (theoretical)	kN	**166**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**50 + 42**
Heating capacity (STD)	kW	**52**
Oil tank capacity (STD)	l	**1 000**
Machine dimensions L × W × H (STD)	m	**9×3.5×2.8**
Machine weight – STD (approx.)	t	**31**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i5100**	90	22.7	170	2 990	2 721	793	90	145
□ **i5100**	100	20.2	138	3 691	3 359	893	136	145
□ **i6900**	100	22	167	4 123	3 752	738	117	125
□ **i6900**	110	20	138	4 989	4 540	893	154	125
■ **i7500**	100	24.5	152	3 752	3 039	708	117	125
■ **i7500**	110	22	127	4 540	3 752	856	154	125

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP900-S6

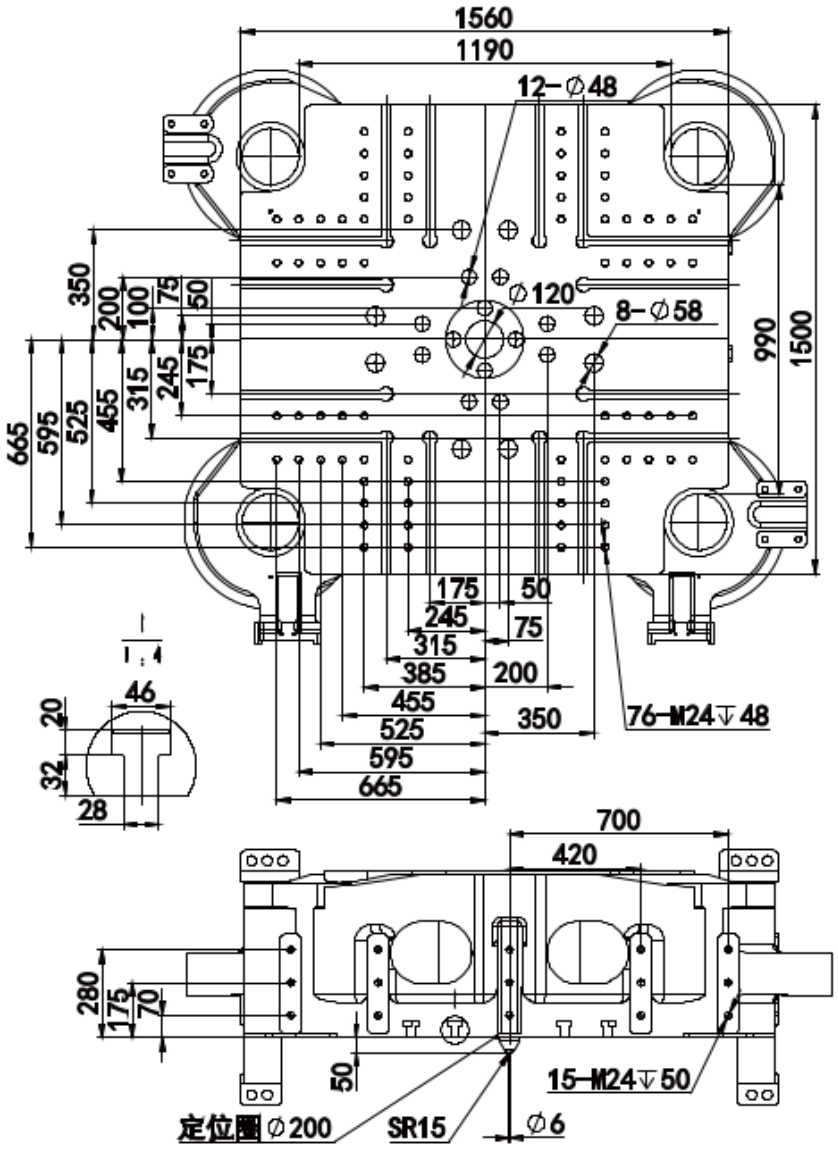
Two-Platen Servo-Hydraulic Injection Molding Machine

9 000 kN

≈ 900 ton clamping force

Product description

The DP900-S6 is a 9 000 kN two-platen large machine with 1 190 × 990 mm tie bar distance. The 2 100 mm daylight makes deep-cavity large parts easy to produce. The servo-hydraulic drive provides low operating costs and fast cycle times. Typical applications include logistics, automotive and household appliance industries.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**9 000**
Mold opening stroke	mm	**1600 / 1000**
Daylight (max.)	mm	**2 100**
Space between tie bars	mm	**1190 × 990**
Mold thickness (min–max)	mm	**500 – 1100**
Ejector stroke	mm	**300**
Ejector force (theoretical)	kN	**166**
Controller		**KEBA │ 12" touchscreen │ 100 µs CPU │ 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**2 × 44**
Heating capacity (STD)	kW	**52**
Oil tank capacity (STD)	l	**1 000**
Machine dimensions L × W × H (STD)	m	**8.5×2.7×2.5**
Machine weight – STD (approx.)	t	**30**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i5100**	85	24.4	191	2 667	2 427	642	89	145
□ **i5100**	90	22.7	170	2 990	2 721	793	90	145
□ **i5100**	100	20.2	138	3 691	3 359	893	136	145
■ **i6900**	90	24.5	206	3 340	3 039	598	78	125
■ **i6900**	100	22	167	4 123	3 752	738	117	125
■ **i6900**	110	20	138	4 989	4 540	893	154	125
□ **i9500**	100	24.4	205	4 516	4 109	920	108	115
□ **i9500**	110	22	169	5 464	4 972	1 095	142	115
□ **i9500**	120	20.2	142	6 503	5 918	1 311	183	115

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP1100-S6

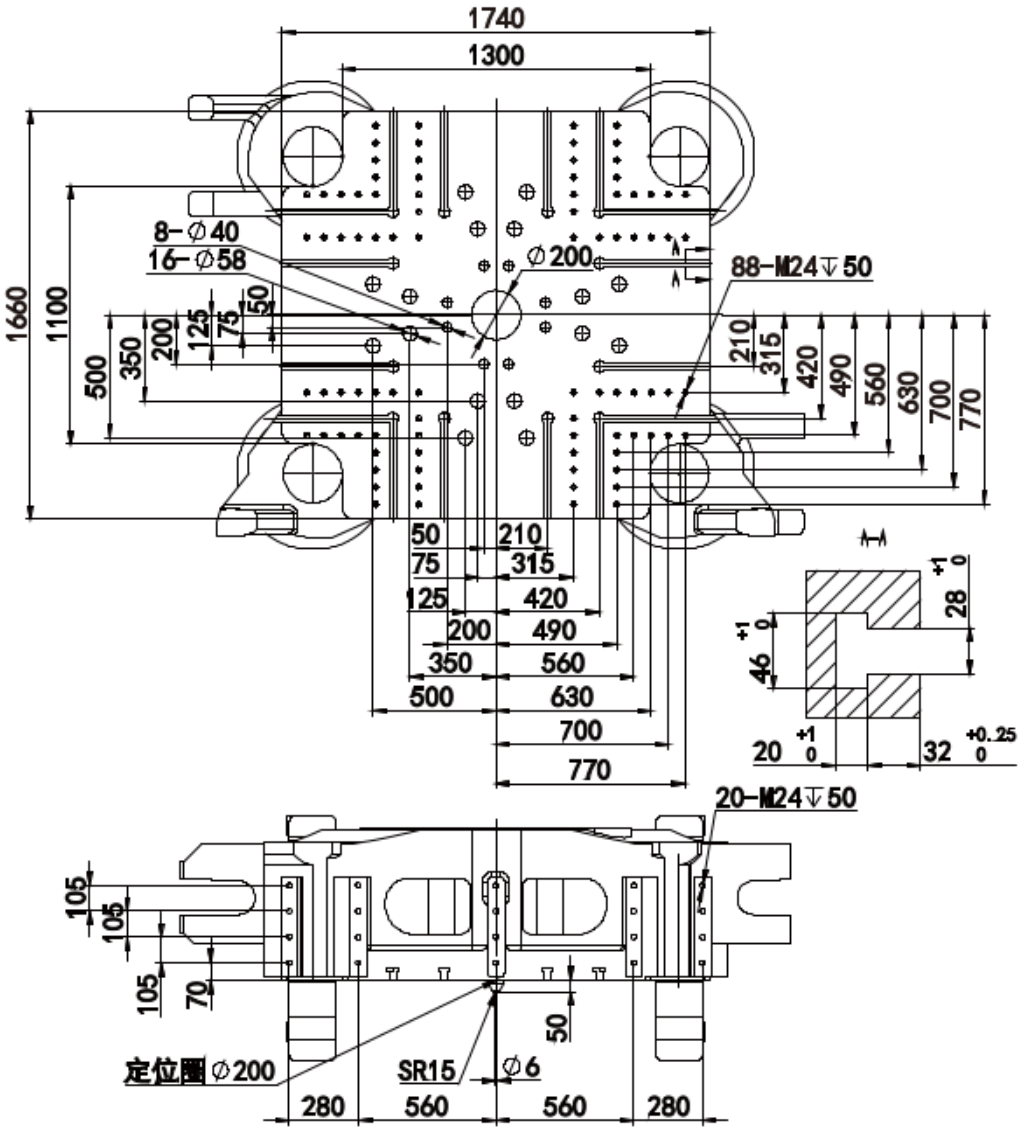
Two-Platen Servo-Hydraulic Injection Molding Machine

11 000 kN

≈ 1 100 ton clamping force

Product description

The DP1100-S6 is an 11 000 kN two-platen large machine with 1 300 × 1 100 mm tie bar distance and 2 400 mm daylight. Ideal for industrial waste containers, large packaging and automotive parts. The servo-hydraulic drive and linear-rail moving platen guidance enable precise process control, while the KEBA controller provides maximum flexibility for operators.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**11 000**
Mold opening stroke	mm	**1900 / 1200**
Daylight (max.)	mm	**2 400**
Space between tie bars	mm	**1300 × 1100**
Mold thickness (min–max)	mm	**500 – 1200**
Ejector stroke	mm	**350**
Ejector force (theoretical)	kN	**210**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**2 × 50**
Heating capacity (STD)	kW	**59**
Oil tank capacity (STD)	l	**1 200**
Machine dimensions L × W × H (STD)	m	**10.0×3.7×2.8**
Machine weight – STD (approx.)	t	**41**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i5100**	85	24.4	191	2 667	2 427	642	89	145
□ **i5100**	90	22.7	170	2 990	2 721	793	90	145
□ **i5100**	100	20.2	138	3 691	3 359	893	136	145
□ **i6900**	90	24.5	206	3 340	3 039	598	78	125
□ **i6900**	100	22	167	4 123	3 752	738	117	125
□ **i6900**	110	20	138	4 989	4 540	893	154	125
■ **i9500**	100	24.4	205	4 516	4 109	920	108	115
■ **i9500**	110	22	169	5 464	4 972	1 095	142	115
■ **i9500**	120	20.2	142	6 503	5 918	1 311	183	115
□ **i12000**	110	24.4	204	5 892	5 362	939	136	110
□ **i12000**	120	22	171	7 012	6 381	1 117	162	110
□ **i12000**	130	20.2	146	8 229	7 489	1 311	206	110

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP1300-S6

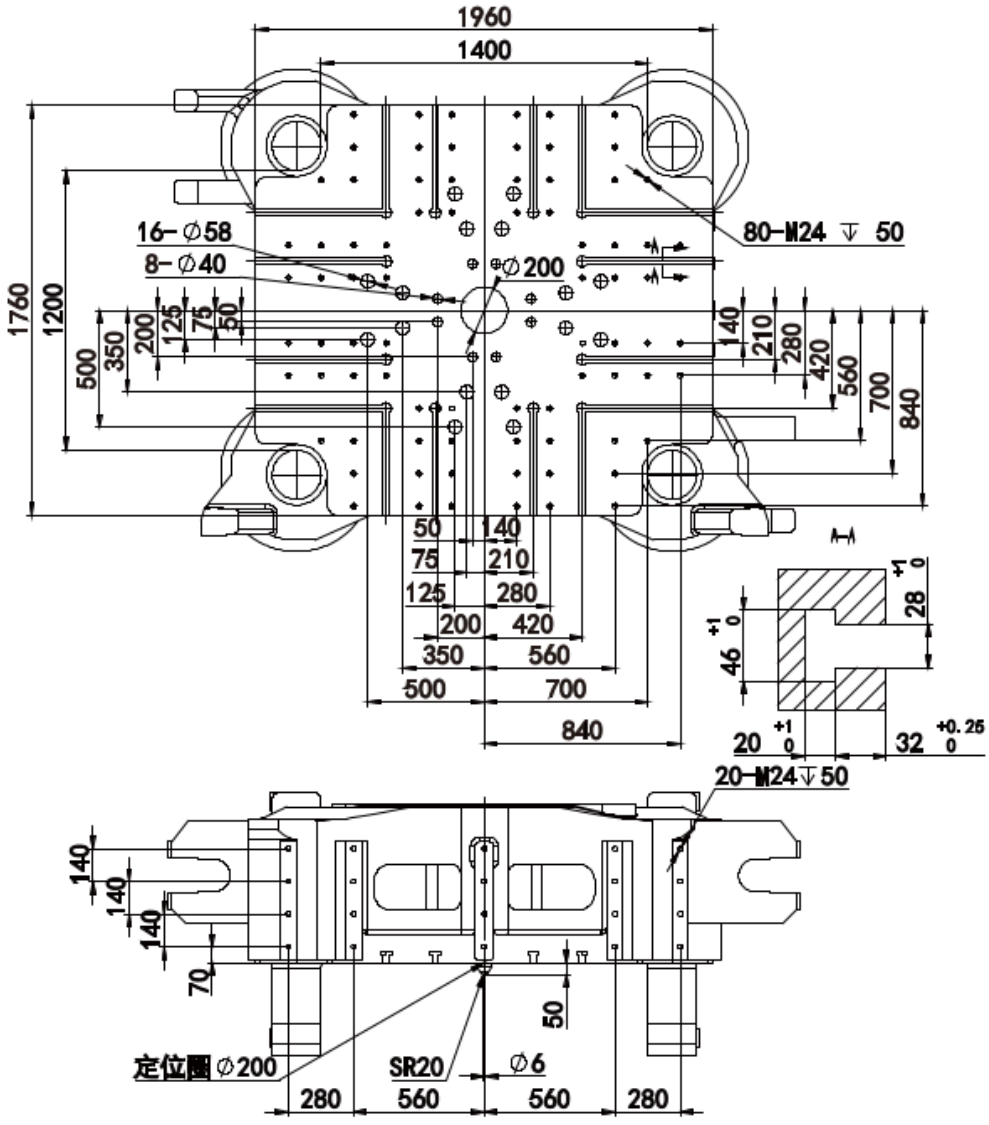
Two-Platen Servo-Hydraulic Injection Molding Machine

13 000 kN

≈ 1 300 ton clamping force

Product description

The DP1300-S6 is a 13 000 kN two-platen large machine with 1 400 × 1 200 mm tie bar distance. Its 2 850 mm maximum daylight enables the production of extremely deep-cavity parts that would not be feasible on conventional toggle machines. Typical applications: 1 100 l waste containers, pallets, large automotive components.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**13 000**
Mold opening stroke	mm	**2250 / 1500**
Daylight (max.)	mm	**2 850**
Space between tie bars	mm	**1400 × 1200**
Mold thickness (min–max)	mm	**600 – 1350**
Ejector stroke	mm	**400**
Ejector force (theoretical)	kN	**309**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**57 + 54**
Heating capacity (STD)	kW	**59**
Oil tank capacity (STD)	l	**1 000**
Machine dimensions L × W × H (STD)	m	**9.8×3.1×2.7**
Machine weight – STD (approx.)	t	**43**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i6900**	90	24.5	206	3 340	3 039	598	78	125
□ **i6900**	100	22	167	4 123	3 752	738	117	125
■ **i9500**	100	24.4	205	4 516	4 109	920	108	115
■ **i9500**	110	22	169	5 464	4 972	1 095	142	115
■ **i9500**	120	20.2	142	6 503	5 918	1 311	183	115
□ **i12000**	110	24.4	204	5 892	5 362	939	136	110
□ **i12000**	120	22	171	7 012	6 381	1 117	162	110
□ **i12000**	130	20.2	146	8 229	7 489	1 311	206	110
□ **i14700**	120	23.8	193	7 803	7 101	1 064	140	95
□ **i14700**	130	21.3	164	9 158	8 334	1 249	164	95
□ **i14700**	140	19.8	141	10 621	9 665	1 448	206	95

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP1500-S6

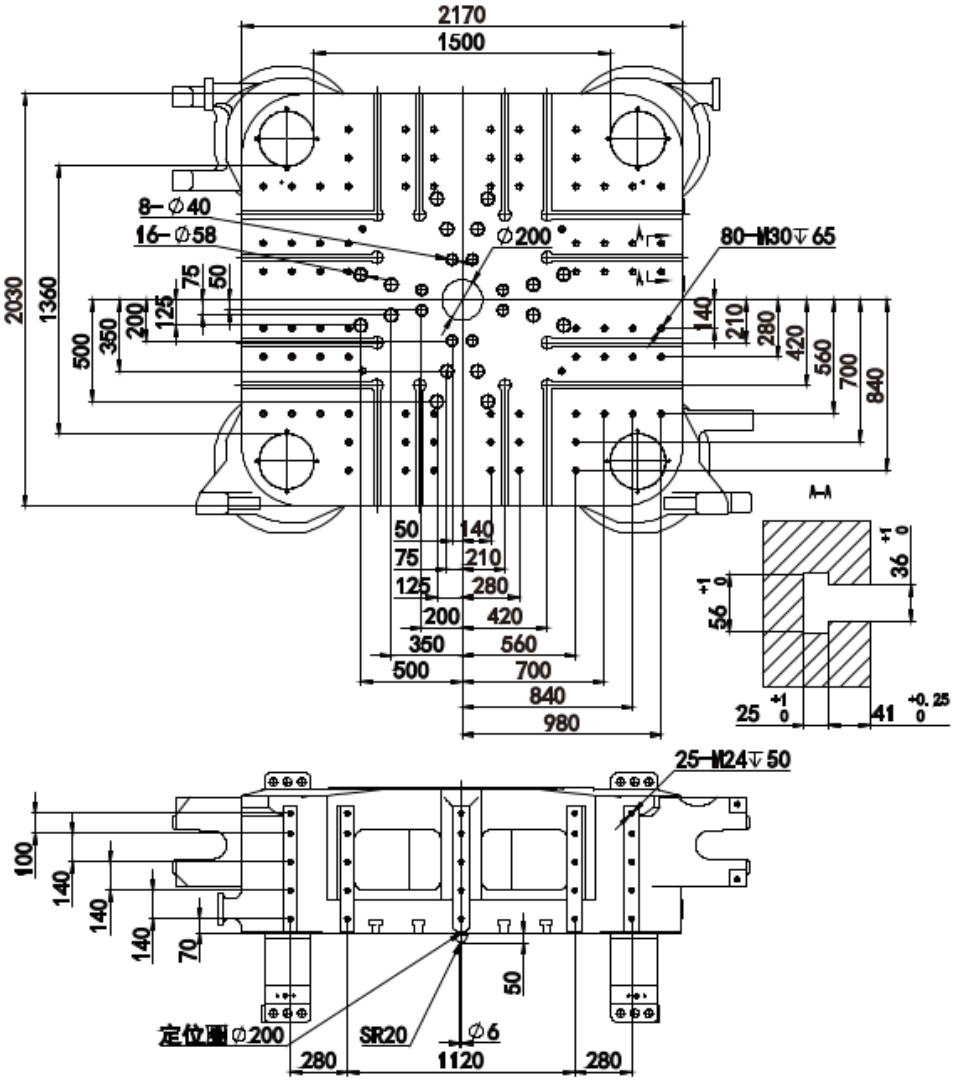
Two-Platen Servo-Hydraulic Injection Molding Machine

15 000 kN

≈ 1 500 ton clamping force

Product description

The DP1500-S6 is a 15 000 kN two-platen large machine with 1 500 × 1 360 mm tie bar distance and 3 050 mm maximum daylight. The two-platen design provides larger mold area and opening stroke on a smaller footprint than comparable toggle machines. Suitable for waste containers to shipping containers, large automotive parts to logistics solutions.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**15 000**
Mold opening stroke	mm	**2450 / 1600**
Daylight (max.)	mm	**3 050**
Space between tie bars	mm	**1500 × 1360**
Mold thickness (min–max)	mm	**600 – 1450**
Ejector stroke	mm	**400**
Ejector force (theoretical)	kN	**309**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**2 × 44 + 54**
Heating capacity (STD)	kW	**93**
Oil tank capacity (STD)	l	**1 200**
Machine dimensions L × W × H (STD)	m	**12.4×4.1×3.0**
Machine weight – STD (approx.)	t	**61**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i9500**	100	24.4	205	4 516	4 109	920	108	115
□ **i9500**	110	22	169	5 464	4 972	1 095	142	115
□ **i9500**	120	20.2	142	6 503	5 918	1 311	183	115
□ **i12000**	110	24.4	204	5 892	5 362	939	136	110
□ **i12000**	120	22	171	7 012	6 381	1 117	162	110
□ **i12000**	130	20.2	146	8 229	7 489	1 311	206	110
■ **i14700**	120	23.8	193	7 803	7 101	1 064	140	95
■ **i14700**	130	21.3	164	9 158	8 334	1 249	164	95
■ **i14700**	140	19.8	141	10 621	9 665	1 448	206	95
□ **i17000**	130	23.7	177	9 756	8 878	1 265	152	88
□ **i17000**	140	22	153	11 314	10 296	1 467	191	88
□ **i17000**	150	20.5	133	12 988	11 819	1 684	219	88

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP1800-S6

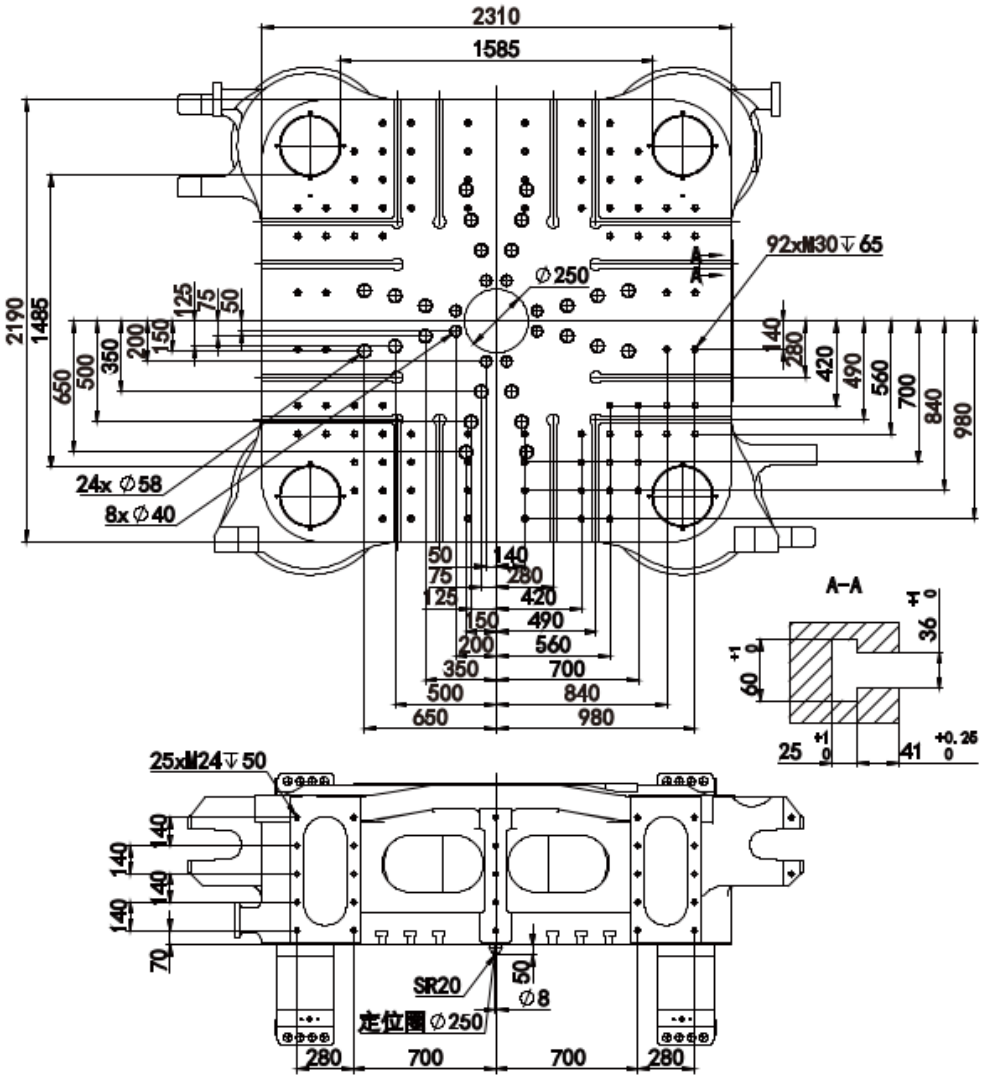
Two-Platen Servo-Hydraulic Injection Molding Machine

18 000 kN

≈ 1 800 ton clamping force

Product description

The DP1800-S6 is an 18 000 kN two-platen large machine with 1 585 × 1 485 mm tie bar distance and 3 300 mm maximum daylight. The exceptionally large opening stroke enables the production of parts exceeding 1 000 mm depth – such as large waste containers and IBC tanks – without difficulty. The servo-hydraulic drive and precisely controlled clamping system provide reliable, long-life operation.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**18 000**
Mold opening stroke	mm	**2650 / 1700**
Daylight (max.)	mm	**3 300**
Space between tie bars	mm	**1585 × 1485**
Mold thickness (min–max)	mm	**650 – 1600**
Ejector stroke	mm	**400**
Ejector force (theoretical)	kN	**309**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**57 + 54 + 44**
Heating capacity (STD)	kW	**101**
Oil tank capacity (STD)	l	**1 500**
Machine dimensions L × W × H (STD)	m	**13.0×4.3×3.2**
Machine weight – STD (approx.)	t	**76**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i14700**	120	23.8	193	7 803	7 101	1 064	140	95
□ **i14700**	130	21.3	164	9 158	8 334	1 249	164	95
□ **i14700**	140	19.8	141	10 621	9 665	1 448	206	95
■ **i17000**	130	23.7	177	9 756	8 878	1 265	152	88
■ **i17000**	140	22	153	11 314	10 296	1 467	191	88
■ **i17000**	150	20.5	133	12 988	11 819	1 684	219	88
□ **i21500**	140	23.6	179	12 700	11 557	1 355	160	80
□ **i21500**	150	22	156	14 579	13 266	1 556	199	80
□ **i21500**	160	20.6	137	16 587	15 094	1 770	227	80
□ **i28200**	150	23.5	173	16 257	14 794	1 577	199	80
□ **i28200**	160	22	152	18 497	16 832	1 795	227	80
□ **i28200**	170	20.7	135	20 882	19 002	2 026	256	80

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP2100-S6

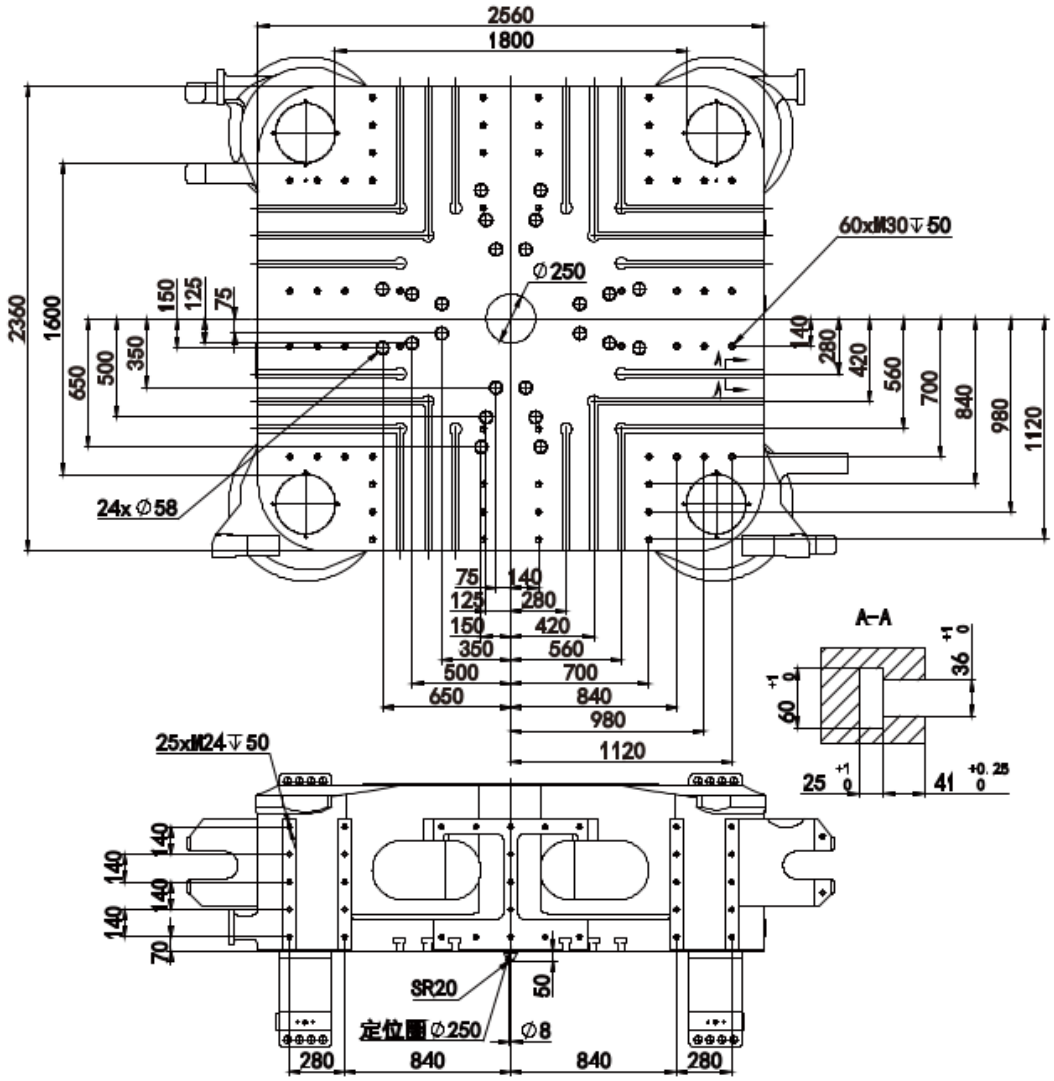
Two-Platen Servo-Hydraulic Injection Molding Machine

21 000 kN

≈ 2 100 ton clamping force

Product description

The DP2100-S6 is a 21 000 kN two-platen large machine with 1 800 × 1 600 mm tie bar distance and 3 750 mm maximum daylight – one of the largest opening strokes in the series. Specifically optimized for large, deep-cavity parts, such as 1 100 l+ waste containers, traffic barriers and heavy-industry components.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**21 000**
Mold opening stroke	mm	**3050 / 2050**
Daylight (max.)	mm	**3 750**
Space between tie bars	mm	**1800 × 1600**
Mold thickness (min–max)	mm	**700 – 1700**
Ejector stroke	mm	**400**
Ejector force (theoretical)	kN	**350**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**2 × 57 + 54**
Heating capacity (STD)	kW	**107**
Oil tank capacity (STD)	l	**1 800**
Machine dimensions L × W × H (STD)	m	**14.9×4.5×3.5**
Machine weight – STD (approx.)	t	**95**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i17000**	130	23.7	177	9 756	8 878	1 265	152	88
□ **i17000**	140	22	153	11 314	10 296	1 467	191	88
□ **i17000**	150	20.5	133	12 988	11 819	1 684	219	88
■ **i21500**	140	23.6	179	12 700	11 557	1 355	160	80
■ **i21500**	150	22	156	14 579	13 266	1 556	199	80
■ **i21500**	160	20.6	137	16 587	15 094	1 770	227	80
□ **i28200**	150	23.5	173	16 257	14 794	1 577	199	80
□ **i28200**	160	22	152	18 497	16 832	1 795	227	80
□ **i28200**	170	20.7	135	20 882	19 002	2 026	256	80

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP2500-S6

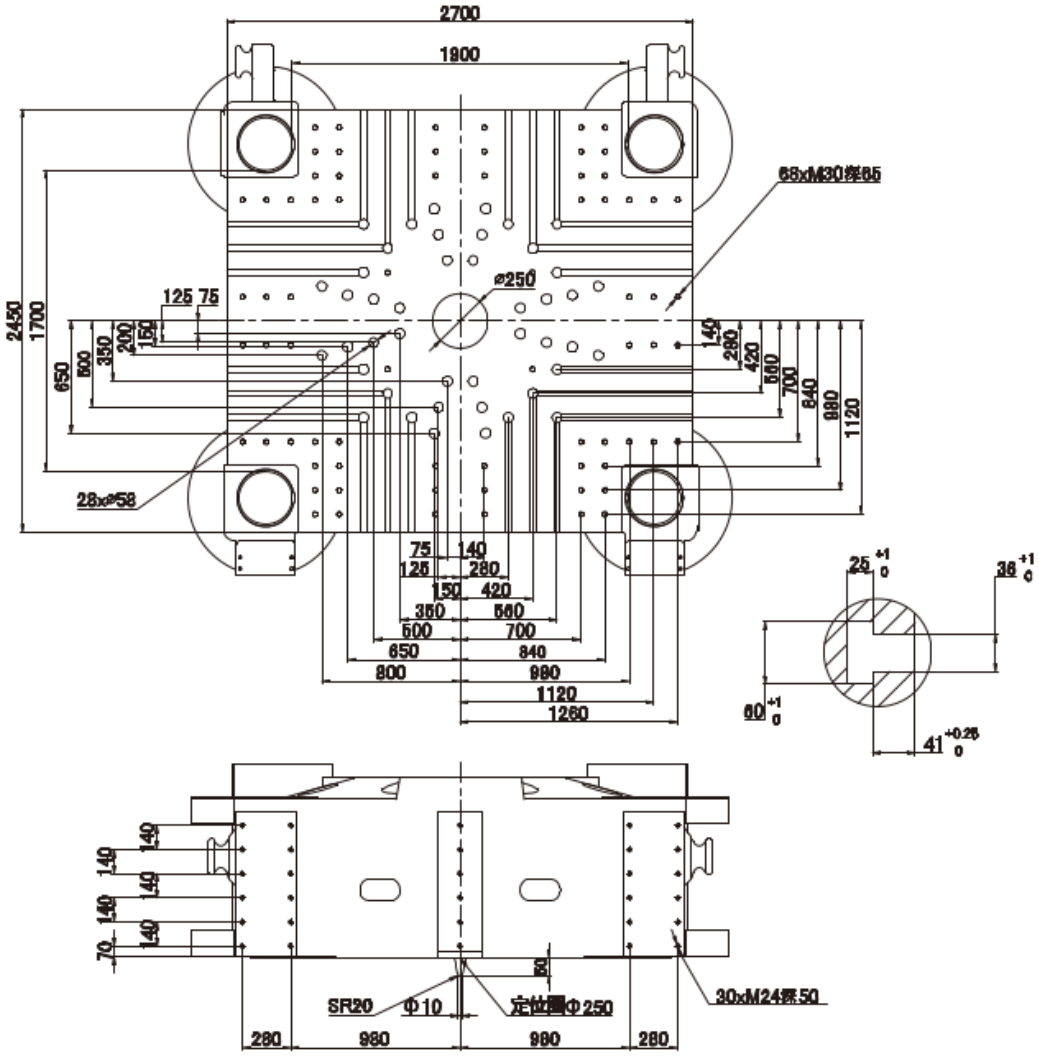
Two-Platen Servo-Hydraulic Injection Molding Machine

25 000 kN

≈ 2 500 ton clamping force

Product description

The DP2500-S6 is a 25 000 kN two-platen large machine with 1 900 × 1 700 mm tie bar distance and 3 850 mm maximum daylight. One of the highest-capacity members of the series, primarily intended for automotive and heavy logistics applications. The servo-hydraulic drive and four-cylinder direct clamping system provide reliable, precise operation even with the largest molds.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**25 000**
Mold opening stroke	mm	**3050 / 2050**
Daylight (max.)	mm	**3 850**
Space between tie bars	mm	**1900 × 1700**
Mold thickness (min–max)	mm	**800 – 1800**
Ejector stroke	mm	**500**
Ejector force (theoretical)	kN	**450**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**2 × 57 + 54**
Heating capacity (STD)	kW	**107**
Oil tank capacity (STD)	l	**1 800**
Machine dimensions L × W × H (STD)	m	**15.5×4.6×3.7**
Machine weight – STD (approx.)	t	**114**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm^3)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
■ **i21500**	140	23.6	179	12 700	11 557	1 355	160	80
■ **i21500**	150	22	156	14 579	13 266	1 556	199	80
■ **i21500**	160	20.6	137	16 587	15 094	1 770	227	80
□ **i28200**	150	23.5	173	16 257	14 794	1 577	199	80
□ **i28200**	160	22	152	18 497	16 832	1 795	227	80
□ **i28200**	170	20.7	135	20 882	19 002	2 026	256	80

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP2900-S6

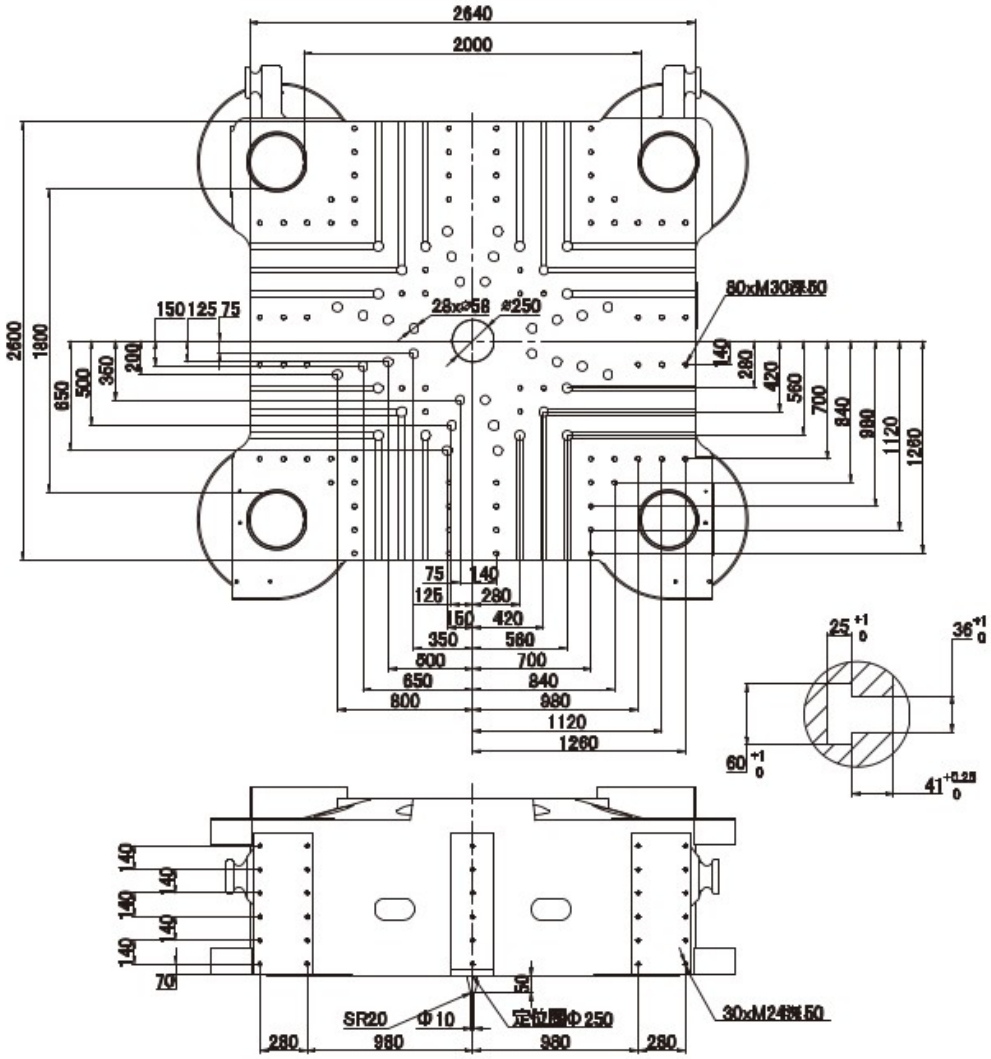
Two-Platen Servo-Hydraulic Injection Molding Machine

29 000 kN

≈ 2 900 ton clamping force

Product description

The DP2900-S6 is a 29 000 kN two-platen large machine with 2 000 × 1 800 mm tie bar distance and 4 100 mm maximum daylight. One of the largest members of the series, designed specifically for heavy-industry, automotive and infrastructure components. The servo-hydraulic clamping system and four independent clamping cylinders provide stable, reproducible and precisely controlled processes.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**29 000**
Mold opening stroke	mm	**3300 / 2100**
Daylight (max.)	mm	**4 100**
Space between tie bars	mm	**2000 × 1800**
Mold thickness (min–max)	mm	**800 – 2000**
Ejector stroke	mm	**500**
Ejector force (theoretical)	kN	**450**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**3 × 54 + 54**
Heating capacity (STD)	kW	**180**
Oil tank capacity (STD)	l	**2 500**
Machine dimensions L × W × H (STD)	m	**16.8×4.7×3.9**
Machine weight – STD (approx.)	t	**143**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i28200**	150	23.5	173	16 257	14 794	1 577	199	80
□ **i28200**	160	22	152	18 497	16 832	1 795	227	80
□ **i28200**	170	20.7	135	20 882	19 002	2 026	256	80
■ **i47700**	185	23.8	161	29 567	26 906	2 052	246	65
■ **i47700**	200	20.7	138	34 557	31 446	2 398	310	65

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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PowerJet DP3300-S6

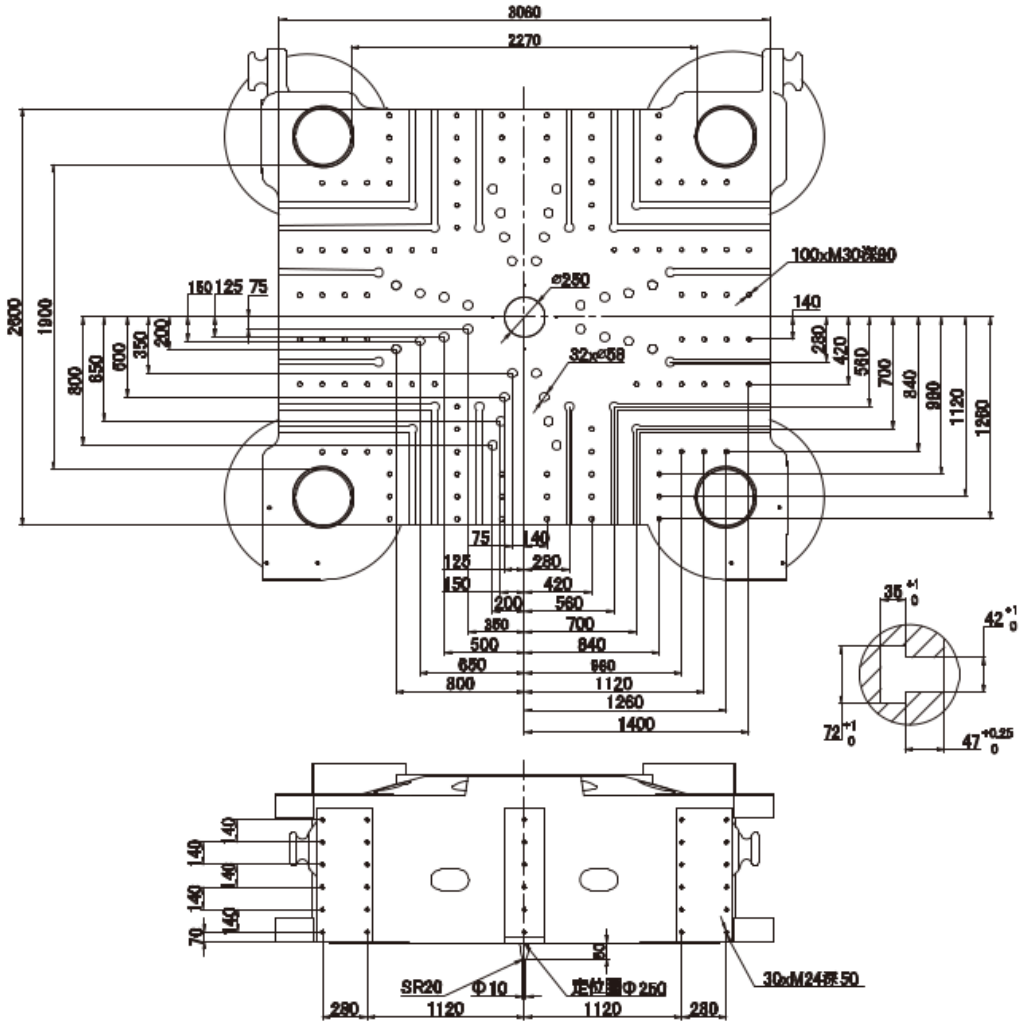
Two-Platen Servo-Hydraulic Injection Molding Machine

33 000 kN

≈ 3 300 ton clamping force

Product description

The DP3300-S6 is the flagship of the PowerJet DP series, with 33 000 kN clamping force, 2 270 × 1 900 mm tie bar distance and 4 200 mm maximum daylight. This machine size enables the most demanding heavy-industry applications – from automotive body panels to massive waste storage systems. Four independent high-stage clamping cylinders, servo-hydraulic drive and KEBA controller provide the highest level of precision.



Technical data

Parameter	Unit	Value
Clamping system type		**Direct hydraulic two-platen**
Clamping force	kN	**33 000**
Mold opening stroke	mm	**3300 / 2200**
Daylight (max.)	mm	**4 200**
Space between tie bars	mm	**2270 × 1900**
Mold thickness (min–max)	mm	**900 – 2000**
Ejector stroke	mm	**550**
Ejector force (theoretical)	kN	**580**
Controller		**KEBA | 12" touchscreen | 100 µs CPU | 1 000 mold memory**
System pressure	MPa	**17.5**
Pump motor (STD)	kW	**4 × 57 + 54**
Heating capacity (STD)	kW	**107**
Oil tank capacity (STD)	l	**2 800**
Machine dimensions L × W × H (STD)	m	**17.8×5.0×4.1**
Machine weight – STD (approx.)	t	**165**

The values shown for Pump motor, Heating capacity, Oil tank, Machine dimensions and Machine weight refer to the STD injection unit configuration. For OPT configurations (see Screw size variants table), these values may differ – please request a quotation for exact specifications.

Screw size variants

Injection unit	Screw Ø (mm)	L/D ratio	Inj. pressure (MPa)	Shot volume (cm^3)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotary (rpm)
□ **i28200**	150	23.5	173	16 257	14 794	1 577	199	80
□ **i28200**	160	22	152	18 497	16 832	1 795	227	80
□ **i28200**	170	20.7	135	20 882	19 002	2 026	256	80
□ **i47700**	185	23.8	161	29 567	26 906	2 052	246	65
□ **i47700**	200	20.7	138	34 557	31 446	2 398	310	65
■ **i69500**	220	20.7	116	49 416	44 968	2 974	371	60

■ Standard (STD) injection unit □ Optional (OPT) injection unit

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Standard configuration

Device Configuration – Standard Devices | PowerJet DP Series

1. Clamping unit

● Linear-rail moving platen guidance with low friction	● Mid-mold ejection
● T-slot + Euromap 18 mounting holes (composite mold platen)	● High-stage hydraulic clamping cylinder with closed oil circuit
● Automatic mold thickness adjustment	● Synchronous split-nut locking mechanism
● Proportional valve for moving platen	● Independent operation of clamping cylinders
● Real-time clamping force detection	● Automatic centralized grease lubrication system
● Automatic clamping force adjustment	● Adjustable opening stroke
● Low-pressure mold protection	● Ejector position feedback confirmation
● Multiple ejection functions	● Front and rear safety doors and emergency stops
● Forced ejector return	

2. Injection unit

● High-power hydraulic motor for plasticizing (≤1300T standard)	● Cold-start screw protection function
● Proportional back pressure control	● High L/D ratio specialty screw (improved plasticizing capacity)
● Dual-cylinder horizontal injection system	● Automatic material purging
● Nitrided alloy steel screw and barrel	● Loose retraction before/after plasticizing
● Cooling device at the throat	● Throat sliding rail device
● Multi-zone PID temperature control for nozzle and barrel	● Screw rotation sensor and display
● Nozzle centering device	● Manual centralized lubrication pump (injection unit)
● Nozzle protection cover	● Stainless steel throat

3. Hydraulics

● Servo-hydraulic system	● Self-closed absorb oil filter
● High-strength spring buffer compatible with mold	● Hydraulic fluid level detection and alarm
● Fast mold opening hydraulic circuit	● 1 core-pulling unit – stationary mold platen
● Automatic oil temperature detection and alarm	● 1 core-pulling unit – moving mold platen
● Independent internal cooling and filtration system (1300T+ standard)	● Quick-coupling water distributors (8 sets 650–800T; 10 sets 900T+)
● Hydraulic oil bypass filtration	● Low-friction sealing elements

4. Electrical section

● KEBA control system	● Hot runner needle valve control (software, no hardware)
● 12" TFT true-color LCD touchscreen	● SSR heater band control
● 100 μs CPU processing cycle	● Multiple operating mode interchangeable process control interface
● Automatic temperature maintenance and heating setting	● Injection-to-holding pressure switching: time / position / time+position
● Large-capacity process parameter storage	● Front and rear emergency stop switches
● Chinese/English/multilingual operator interface	● Multi-level password protection, lockable operator panel
● Quality data process control interface	● USB connection and program update
● SPC (Statistical Process Control) real-time list	● System hardware I/O diagnostics
● 4× AC380V/32A three-phase outlet + 1× AC220V/10A outlet	● Three-color signal lamp
● Robot arm electrical interface (software, no hardware)	● Energy consumption display

5. Other

● Operating manual (Chinese/English/Hungarian)	● Special nozzle wrench
● Vibration-damping feet (adjustable sizing block)	● Machine base color (standard RAL)
● Anchor bolts	● 1 set quick-coupling kit
● Tool kit + wear parts kit	● Assembly and tool box
● Mold clamping clamps	

Optional configuration

Device Configuration – Optional Configuration | PowerJet DP Series

The following options are available upon order. Where machine size limits are indicated (e.g. "650T and below"), the option is available only within the specified clamping force range, or becomes standard equipment within that range. Please contact CIS for exact availability.

1. Clamping unit – options

• Top loading platform (650–1300T optional; >1300T standard)	• Antistatic platform in mold area (650–800T optional)
• Electric front safety door (650T and below optional)	• Photoelectric switches in mold area
• Magnetic mold clamping system (magnetic mold platen)	• Hydraulic and electrical protection devices
• Increased maximum mold height	• Mold thermal insulation plate
• Increased ejector force and ejector stroke	• Mold hanger (recommended for 2000 kN and below)
• Special mold mounting holes (Euromap 12/67)	• Automatic clamping force adjustment as needed
• Manual lubrication pump – clamping unit	• Special material platens and joints (e.g. aluminum casting)
• Front platen mold centering ring replacement	

2. Injection unit – options

• Servo-electric plasticizing (650–1300T optional; >1300T hydraulic motor STD)	• Infrared heater band
• Ceramic heater band	• Increased electric plasticizing torque (PA+GF, PEEK)
• Special barrel/screw set (galvanized, bimetal, PC, PMMA, PBT, PA, POM, UPVC, SPVC, bakelite)	• Increased injection speed
• Barrel fan cooling	• Closed-loop injection function
• Spring nozzle	• Drum/tube holding device (650T optional)
• Increased injection stroke	• Synchronous plasticizing
• Screw/barrel size change	• Increased cold-start screw protection level

3. Hydraulics – options

• 2 core-pulling units on stationary mold platen	• Electric water control valve (hydraulic oil cooling)
• 2 core-pulling units on moving mold platen	• Electric water control valve (throat cooling)
• Other type of core-pulling – customer-specific	• Multiple water distributor units with quick couplings
• Synchronous ejection and core-pulling	• High-pressure filtration extension
• Glass-tube cooling fluid meter	• Independent oil cooler unit extension

4. Electrical section – options

• Euromap 67 robot arm interface (hardware)	• Network monitoring – central monitoring connection
• SPI12 robot arm interface	• Front and rear safety screen protection
• Euromap 12 robot arm interface	• Electric energy meter
• Euromap 13 core-pulling system interface	• European brand PLC
• Hot runner interface (hardware)	• European-standard wiring terminals
• Gas-assisted injection interface	• Factory networking function
• Pneumatic sequence control valve	• Electrical hardware lock protection function
• Electric rotary mold disconnect interface	• USB extended storage capacity
• Air blower unit (1 group)	• Voltage modification (e.g. 440V, 380V±10%)
• Multiple air blower units	• Front and rear safety door switches

5. Other – options

• Hydraulic oil (with delivery)	• Special base color (RAL color choice)
• Dryer	• Custom machine length / configuration
• Automatic material feeder	

Important note

The above configuration list contains the general configuration of the DP series. The manufacturer reserves the right to modify product technical parameters, configuration and services without prior notice. Please contact us for the exact, model-specific configuration and option availability.

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