

CYBER IN SYSTEMS KFT.
exclusive distributor of PowerJet

PowerJet KIII Series

Servo-Hydraulic + Electric Charging Injection Molding Machines

900 – 13,800 kN | 15 machine sizes

Product Catalogue



01

More energy-efficient

Servo-hydraulic + electric charging: 30–50% + 15–35% energy savings

02

More precise plasticizing

Servo motor charging: more uniform melt quality, more precise dosing

03

Wider application

900 kN – 13,800 kN: 15 machine sizes for every industry

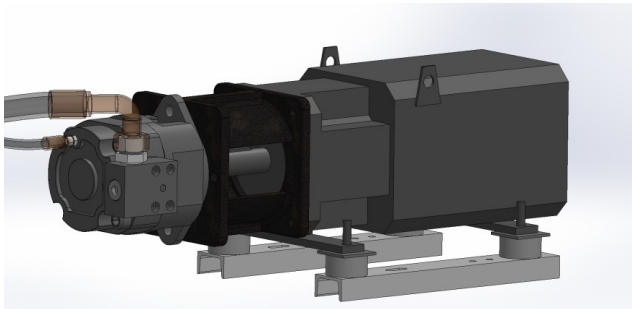
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Longer service life

FEM-optimized frame, electric charging – fewer moving hydraulic components

1. Servo-Hydraulic + Electric Charging

Main distinguishing feature of the KIII series: electric plasticizing



Servo-hydraulic drive

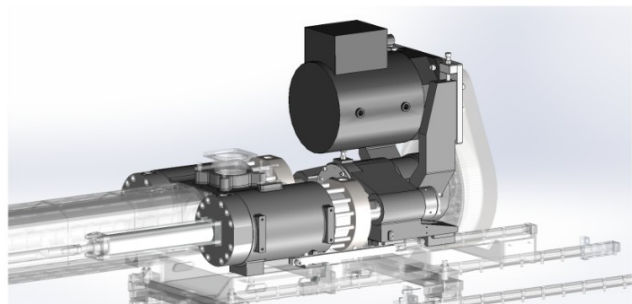
The KIII series uses a variable-speed servo motor to drive the hydraulic pump. The new-generation servo system boosts overall machine power by more than 10% – stable, durable, efficient and energy-saving, with low inertia, low noise and fast dynamic response.

- **30–50% energy savings vs. conventional hydraulic machines**
- Low inertia, low noise, fast dynamic response
- **Stable, durable, efficient**

Electric Charging

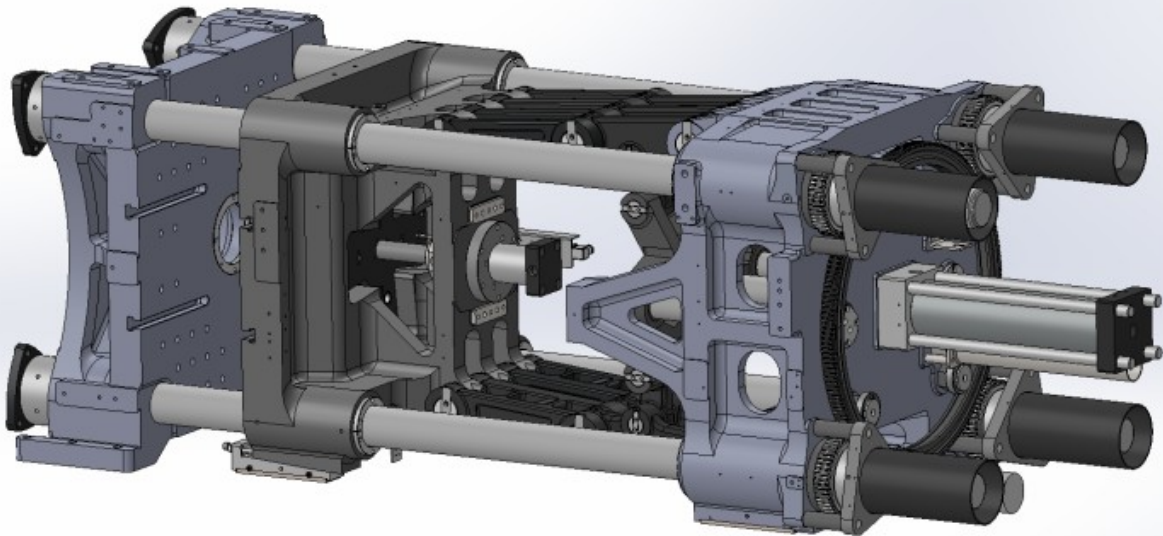
The KIII series comes standard with electric charging. 560 t and below: high-performance servo motor with belt drive. 680 t and above: high-performance servo motor with gearbox drive. Electric plasticizing has higher efficiency and better energy savings.

- **15–35% energy savings with electric charging**
- 560 t and below: servo motor belt drive (export belt drive)
- 680 t and above: servo motor gearbox drive
- Proportional back-pressure – digital control
- Higher screw rotation precision, more uniform melt quality



2. Clamping Unit

Center-press toggle clamping mechanism – stable, precise, durable



High Rigidity Central Pressure Clamping Mechanism

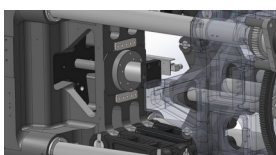
The entire KIII model range uses a center-press toggle clamping mechanism. The FEM-optimized platens ensure minimal deformation. The redesigned clamping structure has increased platen rigidity by more than 20% over the previous design.

Clamping mechanism advantages

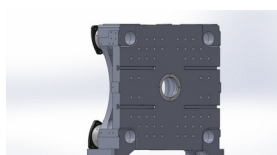
- Stable and fast mold clamping – toggle mechanism
- Reduced mold wear – uniform clamping force distribution
- Balanced clamping cylinder – precise opening positioning
- Entire series with European-type ejector
- Intelligent open/close control – vibration-free motion
- Platen rigidity: +20% vs. conventional design

Platen properties

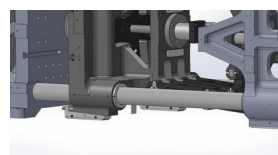
- Fixed platen: FEM-optimized, low deformation
- Moving (2nd) platen: center-press FEM – minimal contact-surface change
- Rear platen: high rigidity + low stress
- Enlarged, low-stress, long-life tie bars
- Wear-resistant manganese steel rail under the moving platen



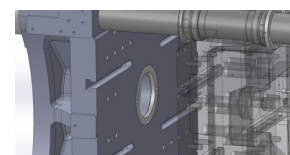
Easily serviceable ejector cylinder



T-slot + mounting hole platen



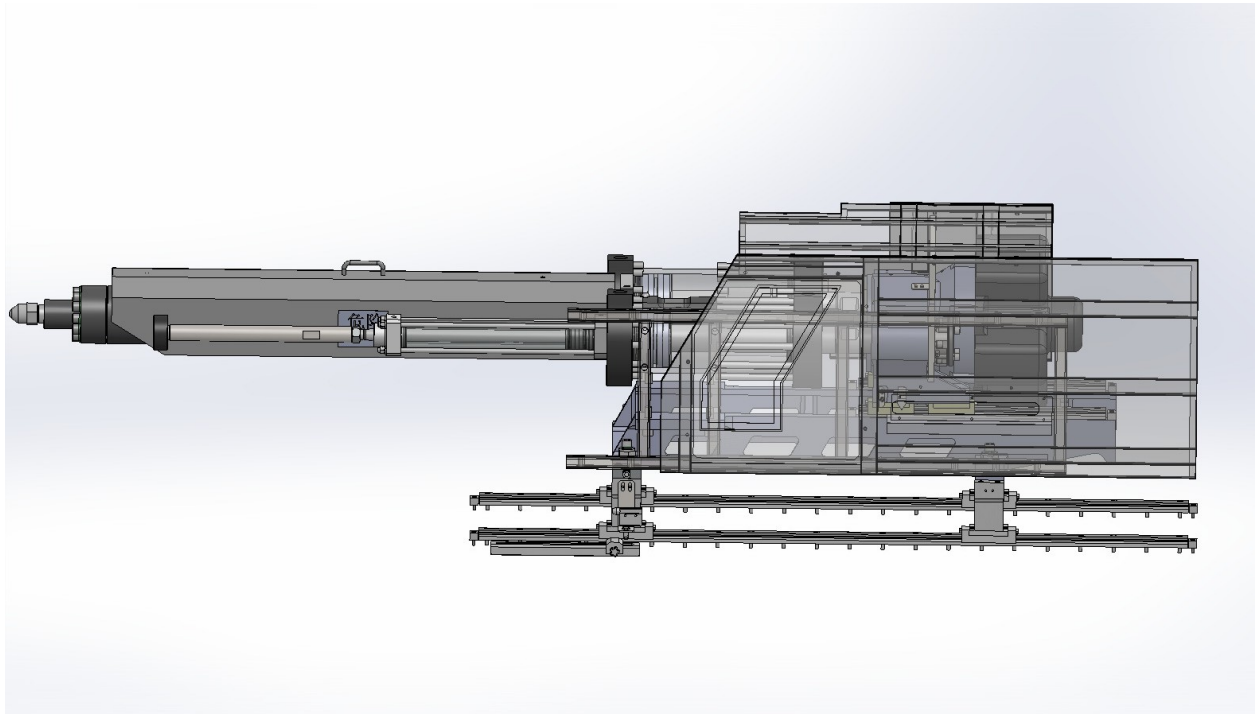
Moving platen – with long sliding feet



Adjustable locating ring

3. Injection Unit

Double linear guide rail system – electric charging | >100 mm/s | precise | stable

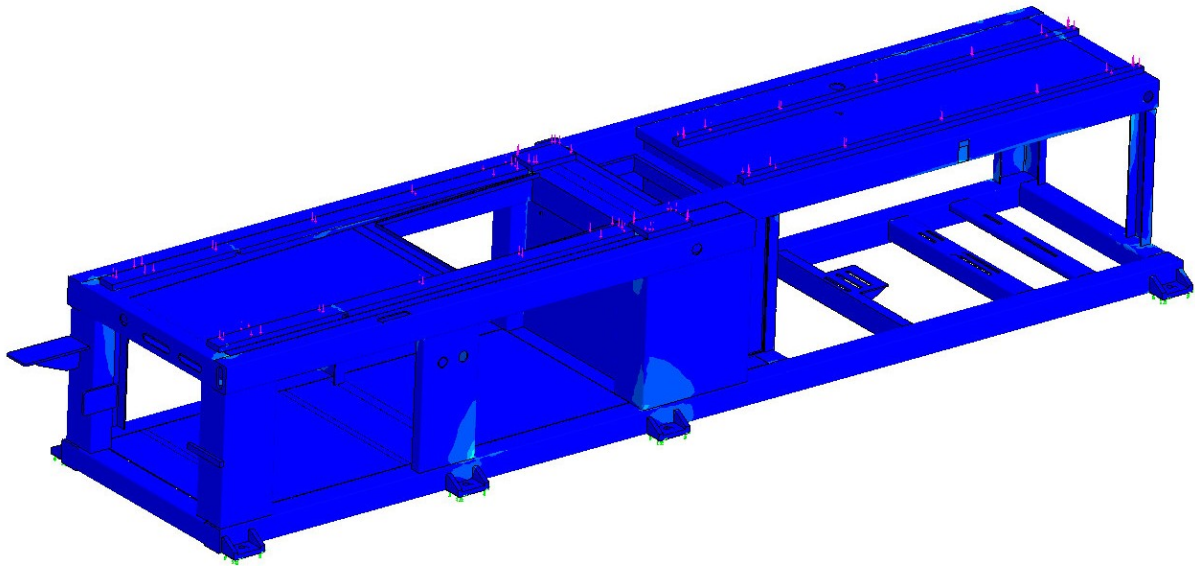


Double linear guide rail injection unit with electric charging – low friction, high stability, energy-saving plasticizing

The KIII injection unit features an upgraded structure with a double linear guide rail design. Standard electric charging: high-performance servo motor with gearbox drive above 680 t, high-performance servo motor with belt drive at 560 t and below. Horizontal dual-cylinder injection system – extended double-cylinder injection positioning ensures more stable operation and more accurate centering. Brand-new double-layer heat-insulated barrel shield.

4. Frame and Machine Structure

FEM-optimized rigid frame – stable, damped, long service life



Frame optimized by Finite Element (FEM) stress analysis – maximum rigidity, minimal deformation

Every load point of the frame has been optimized using finite element analysis. High rigidity, excellent vibration damping and stable production – even at high running speeds. In the KIII series, electric charging eliminates the vibrations of the plasticizing hydraulic motor, further improving stability.

Vibration damping Reinforced rigid frame: 30% better vibration damping. Electric charging: plasticizing vibrations eliminated.	Oil cooling On small machines (330 kN and below) built-in oil-tank cooler. On large machines an external cooler within the frame.	Hydraulic oil quality Contamination-resistant, bubble-free oil tank design. Bypass filter. Weld-free oil pipes on 500 t+ machines.
Electrical cabinet Separate electrical cabinet: high- and low-voltage circuits separated. Reduced control-signal interference. Large cooling space.	Safety doors Front: type III safety door. Rear: type II. Front and rear emergency stops, computerized reset.	Automatic lubrication Automatic centralized lubrication system. On 680 t+ machines, automatic clamping-unit lubrication is standard. Longer machine service life.

5. KEBA Control System

12" touchscreen | 100 μ s CPU | 1000 mold memory



KEBA – Fast, precise, user-friendly

The KEBA control system features a 12-inch touchscreen and a 100 μ s CPU cycle. 1000 mold memory slots (vs. KII: 990) minimize downtime during product changeover. The optimized control system delivers energy savings and fast response.

- **Large 12" touchscreen – rotatable, ergonomic**
- **100 μ s CPU – fast response, high control precision**
- **1000 mold memory slots – fast and error-free changeover**
- Factory networking connection prepared
- Intelligent diagnostics – alarms and causes in one place
- USB-based software update – easy maintenance
- SPC (Statistical Process Control) real-time list
- Digital back-pressure control for electric plasticizing

KEBA control – KIII-specific functions

- Digital back-pressure control for electric charging – more precise melt quality
- Communicates with servo drive – drive parameters can be adjusted and monitored
- Factory networking interface prepared – connects to MES/ERP systems
- SPC (Statistical Process Control) real-time list – production quality monitoring
- 1000 mold memory slots – fast and error-free product changeover
- Active safety valve standard on all machine sizes

6. Why PowerJet KIII?

The 6 key strengths of the series – sales summary

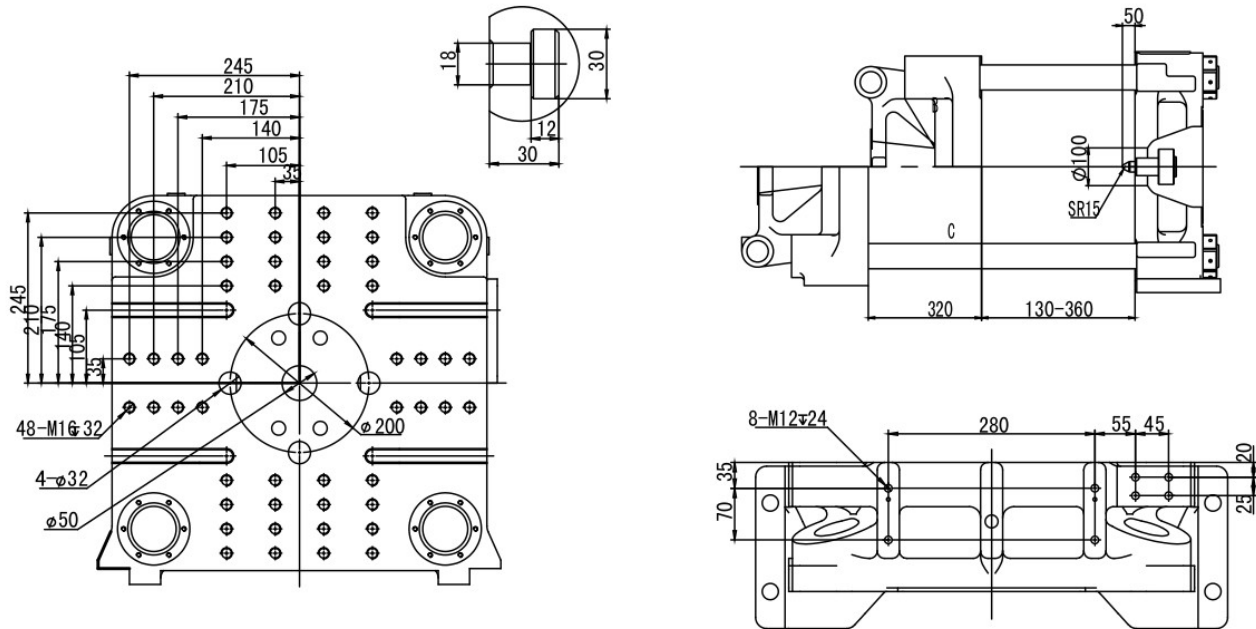
Dual energy savings Servo-hydraulic drive (30–50%) + electric charging (15–35%). Total energy consumption up to 50–65% lower than conventional hydraulic machines.	Precision plasticizing Servo motor digital screw control: more uniform melt quality, more precise dosing, better surface finish. Especially advantageous for PA, PC, POM materials.
Long service life FEM-optimized frame and platens. Electric charging: fewer hydraulic parts, lower maintenance needs.	Wide size range 900 kN – 13,800 kN clamping force, 15 machine sizes. The same quality standard and same technological level in every size class.
Reliable safety Type III+II safety doors, dual electrical and hydraulic interlock, active safety valve, front and rear emergency stops.	CIS Hungarian support Exclusive distributor. Local service, parts supply, installation, training, full-scale support.

PowerJet KIII90-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 900-300

900 kN

≈ 92 ton
Clamping force



Product introduction

The KIII90-S8 is the smallest member of the PowerJet KIII series; its main distinguishing feature is electric charging. Servo motor screw drive consumes 15–35% less energy than conventional hydraulic charging. Its double linear guide rail injection unit, toggle clamping mechanism and KEBA control deliver precise, reproducible production for small-part series.

Typical applications

- Electronic components (connectors, switches, housings)
- Precision medical small components
- Packaging caps and closures
- Small household plastic items
- Technical precision parts (PA, POM, PC)

Technical specifications

Parameter	Value
Clamping force	900 kN (≈ 92 ton)
Opening stroke	320 mm
Platen size	540×540 mm
Space between tie bars	360×360 mm
Max. mold height	360 mm
Min. mold height	130 mm
Ejector stroke	100 mm
Ejector force	34 kN
Ejector arrangement	1+4
Screw diameter range	Ø30 – Ø42 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	15 kW
Heater power	6.5 kW
Oil tank capacity	112 liter
Machine weight	3.5 ton
Machine dimensions (L×W×H)	4.4×1.4×1.8 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø30 mm	20.7	267	113	101	80	15	0–300
Ø36 mm	23	228	186	163	115	25	0–300
Ø42 mm	17.2	136	222	197	156	30	0–300

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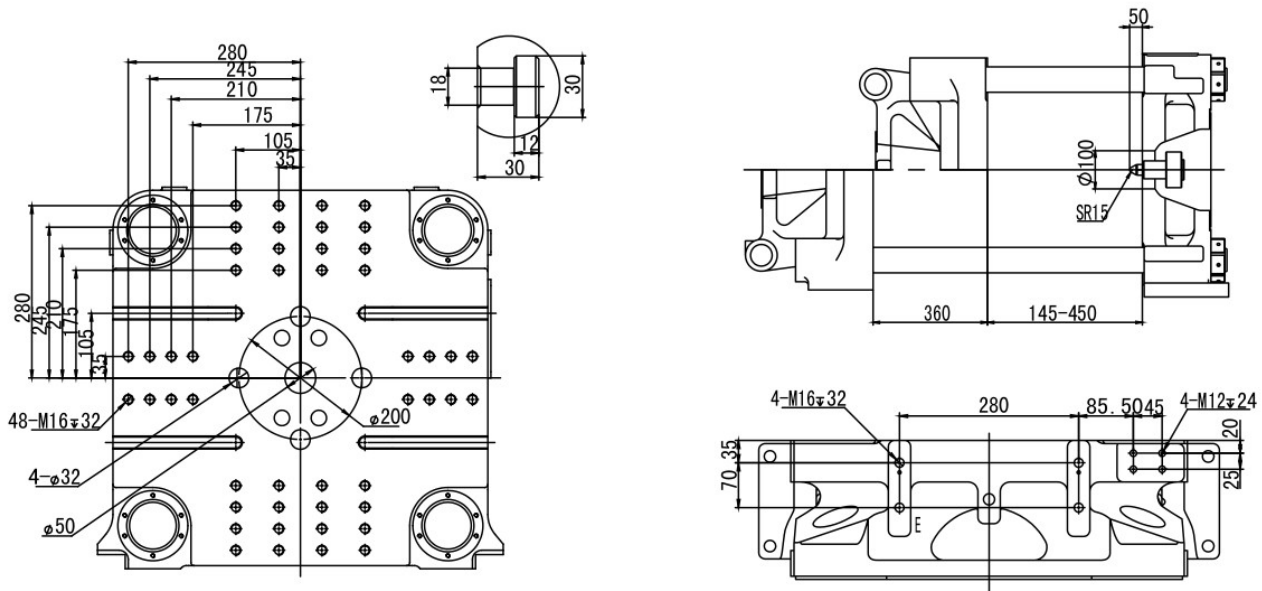
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PowerJet KIII128-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 1280-450

1,280 kN

≈ 130 ton
Clamping force



Product introduction

The KIII128-S8 is the energy-efficient model of the small-medium category with 1,280 kN clamping force. The servo motor of the electric charging unit delivers 15–35% energy savings vs. conventional hydraulic charging, especially with materials requiring long plasticizing times. With three screw size options (Ø36–45 mm), it is flexible for different materials and shot weights.

Typical applications

- Packaging products (caps, lids, smaller bottles)
- Smaller household plastic products
- Electronic housings and cover elements
- Small automotive interior parts, clips
- Technical parts in PA, POM, ABS

Technical specifications

Parameter	Value
Clamping force	1,280 kN (≈ 130 ton)
Opening stroke	360 mm
Platen size	610×610 mm
Space between tie bars	410×410 mm
Max. mold height	450 mm
Min. mold height	145 mm
Ejector stroke	120 mm
Ejector force	42 kN
Ejector arrangement	1+4
Screw diameter range	Ø36 – Ø45 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	18.5 kW
Heater power	8.3 kW
Oil tank capacity	139 liter
Machine weight	3.9 ton
Machine dimensions (L×W×H)	4.6×1.4×2.0 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø36 mm	23	228	193	178	117	23	0–300
Ø40 mm	20	184	239	220	144	31	0–300
Ø45 mm	18.2	146	302	278	183	50	0–300

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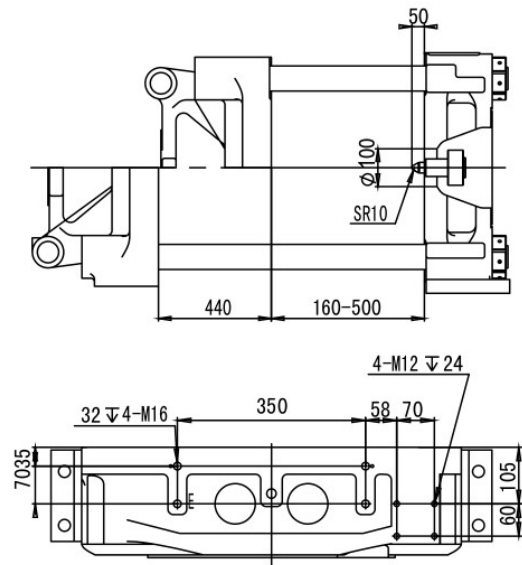
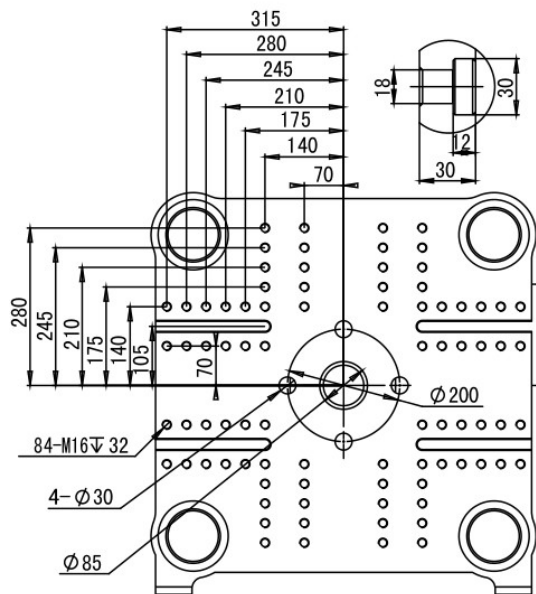
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PowerJet KIII160-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 1600-600

1,600 kN

≈ 163 ton
Clamping force



Product introduction

The KIII160-S8 is the reliable representative of the 160-ton category with electric charging. Servo motor plasticizing operates at lower temperatures and more uniform pressure, improving melt homogeneity. With three screw size options (Ø42–52 mm), it can be used across a wide range of materials and shot weights.

Typical applications

- Medium-sized packaging products (boxes, trays, lids)
- Small-medium automotive interior parts, fasteners
- Household and FMCG products (buckets, jugs)
- Technical parts (PA, PC, ABS filled)
- Small-medium agricultural fittings

Technical specifications

Parameter	Value
Clamping force	1,600 kN (≈ 163 ton)
Opening stroke	440 mm
Platen size	686×686 mm
Space between tie bars	470×470 mm
Max. mold height	520 mm
Min. mold height	160 mm
Ejector stroke	140 mm
Ejector force	49 kN
Ejector arrangement	1+4
Screw diameter range	Ø42 – Ø52 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	25 kW
Heater power	9.89 kW
Oil tank capacity	198 liter
Machine weight	5.0 ton
Machine dimensions (L×W×H)	5.0×1.4×2.0 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø42 mm	22	214	284	253	158	29	0–270
Ø46 mm	20	178	341	303	189	38	0–270
Ø52 mm	17.4	140	435	388	242	53	0–270

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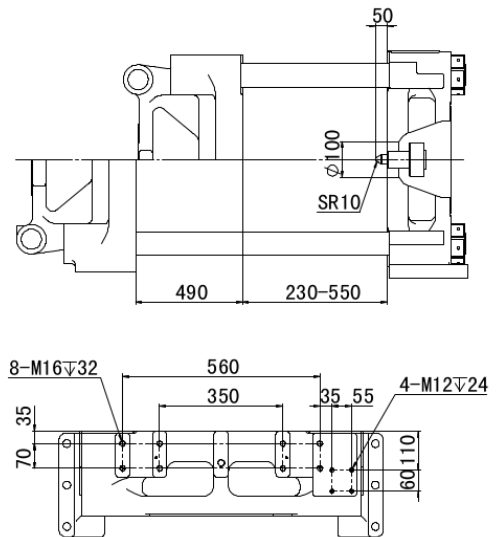
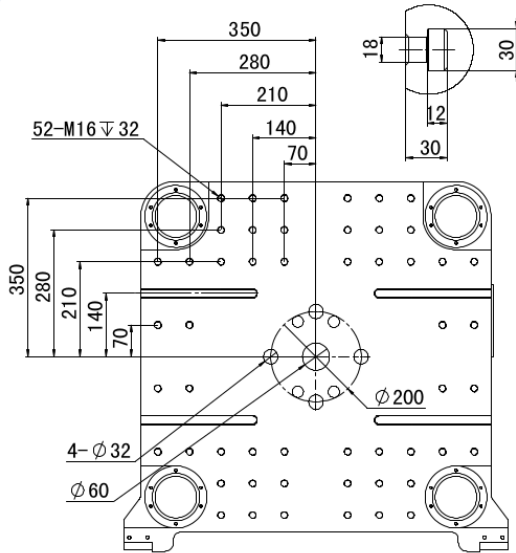
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PowerJet KIII200-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 2000-900

2,000 kN

≈ 204 ton
Clamping force



Product introduction

The KIII200-S8 is the leading model of the 200-ton category with 2,000 kN clamping force, electric charging and three screw size options (Ø46–60 mm). Electric plasticizing is especially advantageous for PP, PA and PC materials, where uniform melt quality is critical to product quality.

Typical applications

- Automotive interior trim and structural parts
- Medium-large packaging (crates, buckets, containers)
- Household durable consumer goods
- Agricultural fittings and irrigation system elements
- Technical parts (PA, POM, PC)

Technical specifications

Parameter	Value
Clamping force	2,000 kN (≈ 204 ton)
Opening stroke	490 mm
Platen size	793×793 mm
Space between tie bars	530×530 mm
Max. mold height	550 mm
Min. mold height	180 mm
Ejector stroke	150 mm
Ejector force	65 kN
Ejector arrangement	1+4
Screw diameter range	Ø46 – Ø60 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	30 kW
Heater power	11.5 kW
Oil tank capacity	232 liter
Machine weight	6.4 ton
Machine dimensions (L×W×H)	5.5×1.5×2.2 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø46 mm	23	220	407	363	193	38	0–270
Ø52 mm	20	172	520	463	247	51	0–270
Ø60 mm	18.5	130	693	617	329	75	0–270

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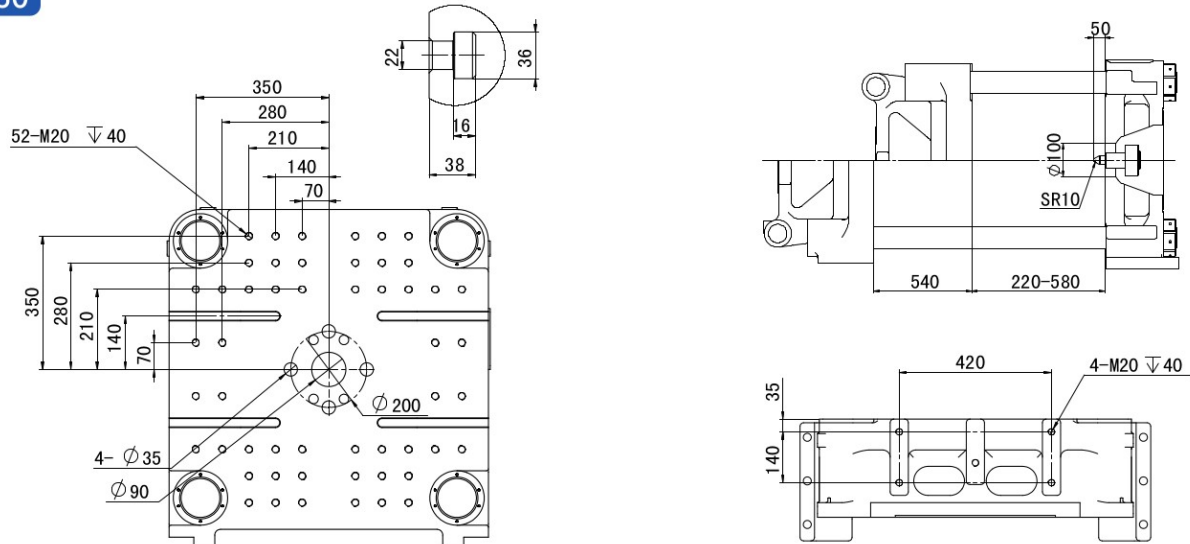
PowerJet KIII250-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 2500-1100

2,500 kN

≈ 255 ton
Clamping force

KIII250



Product introduction

The KIII250-S8 is the ideal solution of the 250-ton category with 2,500 kN clamping force and electric charging. From the 250 model up, the KIII series uses slightly different screw sizes than the KII series, optimized for electrically driven plasticizing. Electric charging delivers 15–35% energy savings during the plasticizing phase.

Typical applications

- Medium-large packaging containers and crates
- Automotive structural and body elements
- Agricultural plastic parts and fittings
- Household durable goods (buckets, storage, containers)
- Logistics auxiliaries (pallet corners, protectors)

Technical specifications

Parameter	Value
Clamping force	2,500 kN (≈ 255 ton)
Opening stroke	540 mm
Platen size	871×871 mm
Space between tie bars	580×580 mm
Max. mold height	580 mm
Min. mold height	220 mm
Ejector stroke	150 mm
Ejector force	77 kN
Ejector arrangement	1+4
Screw diameter range	Ø52 – Ø60 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	30 kW
Heater power	13 kW
Oil tank capacity	320 liter
Machine weight	7.7 ton
Machine dimensions (L×W×H)	6.0×1.6×2.2 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø52 mm	21	200	552	492	235	51	0–270
Ø55 mm	21	179	618	550	263	63	0–270
Ø60 mm	19	150	735	655	313	75	0–270

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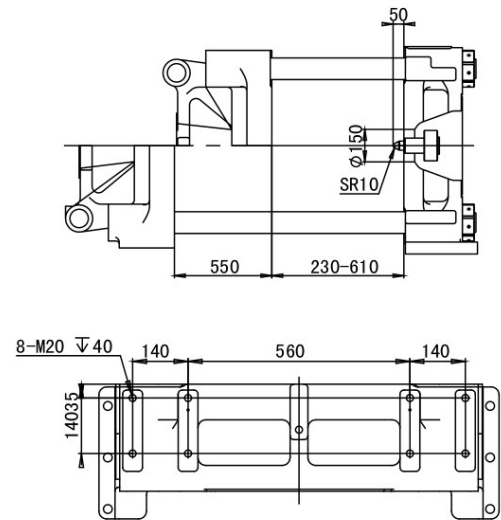
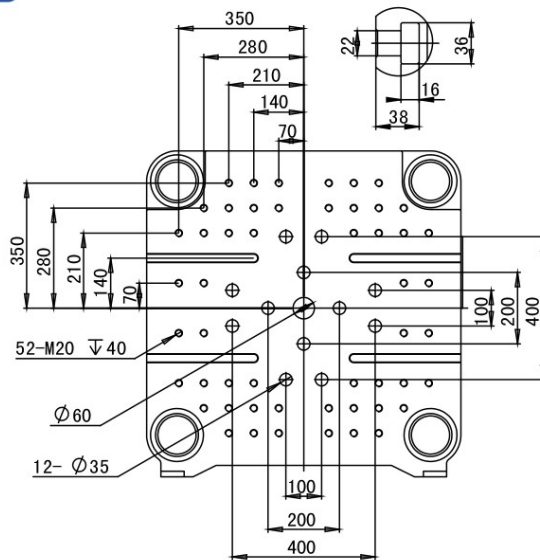
PowerJet KIII288-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 2880-1370

2,880 kN

≈ 294 ton
Clamping force

KIII288



Product introduction

The KIII288-S8 is the entry to the medium-large category with 2,880 kN clamping force and a 1+12 ejector pin system. Electric charging (servo motor belt drive below 560 t, gearbox drive above 680 t) ensures excellent plasticizing precision and energy efficiency.

Typical applications

- Large packaging boxes, lids, buckets in multi-cavity molds
- Automotive interior/exterior parts (door trim elements)
- Logistics crates and shipping trays
- Larger household products
- Agricultural fittings and storage elements

Technical specifications

Parameter	Value
Clamping force	2,880 kN (≈ 294 ton)
Opening stroke	550 mm
Platen size	905×905 mm
Space between tie bars	610×610 mm
Max. mold height	610 mm
Min. mold height	230 mm
Ejector stroke	150 mm
Ejector force	77 kN
Ejector arrangement	1+12
Screw diameter range	Ø52 – Ø68 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	45 kW
Heater power	17.2 kW
Oil tank capacity	340 liter
Machine weight	8.5 ton
Machine dimensions (L×W×H)	6.2×1.6×2.2 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø52 mm	21	230	595	529	231	60	0–270
Ø60 mm	21	173	792	705	308	76	0–270
Ø68 mm	19	134	1017	905	396	98	0–270

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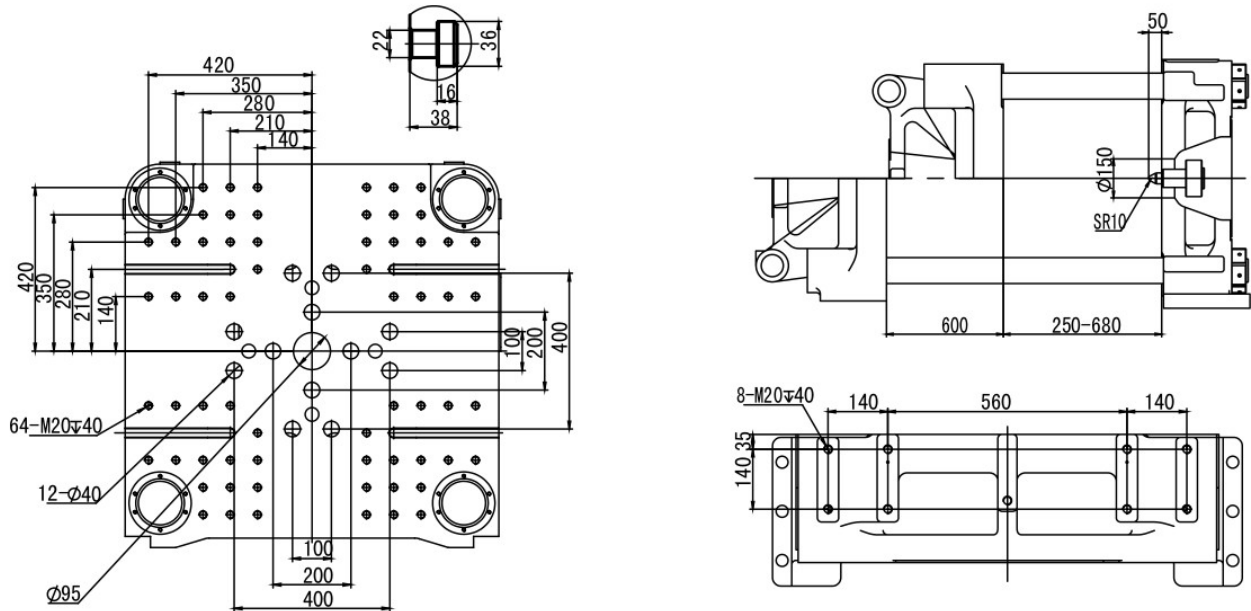
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PowerJet KIII330-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 3300-1870

3,300 kN

≈ 336 ton
Clamping force



Product introduction

The KIII330-S8 is one of the most popular models of the series with 3,300 kN clamping force. Electric charging (servo motor belt drive below 560 t) is especially advantageous for materials with long plasticizing cycles, where both uniform melt quality and energy savings matter. With a 180 mm ejector stroke and 1+12 pin system, it is also suitable for complex part geometries.

Typical applications

- Medium-sized automotive exterior and interior parts
- Large packaging products (5–20 L buckets, crates)
- Agricultural irrigation system components, fittings, tanks
- Logistics and industrial storage solutions
- Larger household category (garden tools, storage)

Technical specifications

Parameter	Value
Clamping force	3,300 kN (≈ 336 ton)
Opening stroke	640 mm
Platen size	980×980 mm
Space between tie bars	670×670 mm
Max. mold height	680 mm
Min. mold height	250 mm
Ejector stroke	180 mm
Ejector force	77 kN
Ejector arrangement	1+12
Screw diameter range	Ø60 – Ø75 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	55 kW
Heater power	20.8 kW
Oil tank capacity	356 liter
Machine weight	10.0 ton
Machine dimensions (L×W×H)	6.65×1.8×2.3 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø60 mm	21	213	877	780	313	78	0–250
Ø68 mm	20.6	166	1126	1002	402	92	0–250
Ø75 mm	19	136	1370	1219	488	111	0–250

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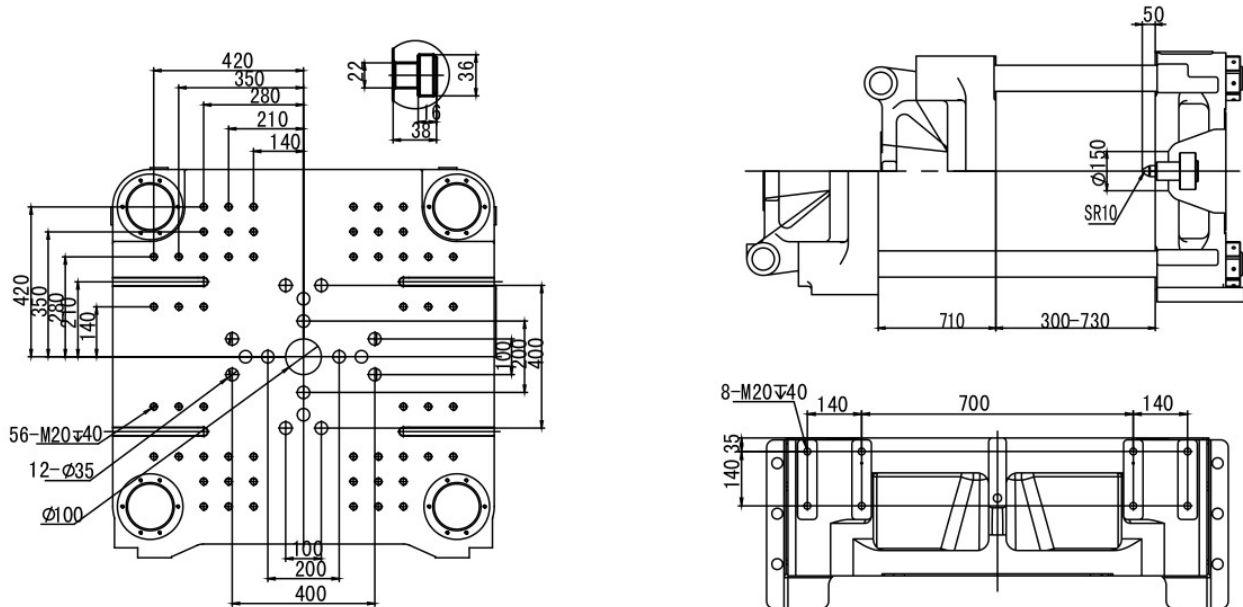
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PowerJet KIII400-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 4000-2500

4,000 kN

≈ 408 ton
Clamping force



Product introduction

The KIII400-S8 enters the large-machine category with 4,000 kN of clamping force. With four screw size options (Ø68–90 mm) and a shot weight range of 1,067–1,869 g, it meets the needs of the automotive and logistics industries alike. On machines below 400 t, servo-driven belt transmission provides electric plasticising, while 500 t and larger machines use servo-driven gear transmission.

Typical applications

- Medium-large automotive parts (bumper elements, door frames)
- Logistics and industrial crates, pallets, shipping trays
- Large packaging products (25–50 L containers)
- Large agricultural parts (transport crates)
- Industrial technical parts (PA, PP-GF filled)

Technical specifications

Parameter	Value
Clamping force	4,000 kN (≈ 408 ton)
Opening stroke	710 mm
Platen size	1080×1060 mm
Space between tie bars	740×720 mm
Max. mold height	730 mm
Min. mold height	300 mm
Ejector stroke	210 mm
Ejector force	110 kN
Ejector arrangement	1+12
Screw diameter range	Ø68 – Ø90 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	63.6 kW
Heater power	27.6 kW
Oil tank capacity	470 liter
Machine weight	15.0 ton
Machine dimensions (L×W×H)	7.9×1.9×2.5 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø68 mm	22	208	1198	1067	409	92	0–250
Ø75 mm	20	171	1458	1298	498	112	0–250
Ø83 mm	19	140	1786	1590	610	128	0–250
Ø90 mm	19	119	2099	1869	717	141	0–250

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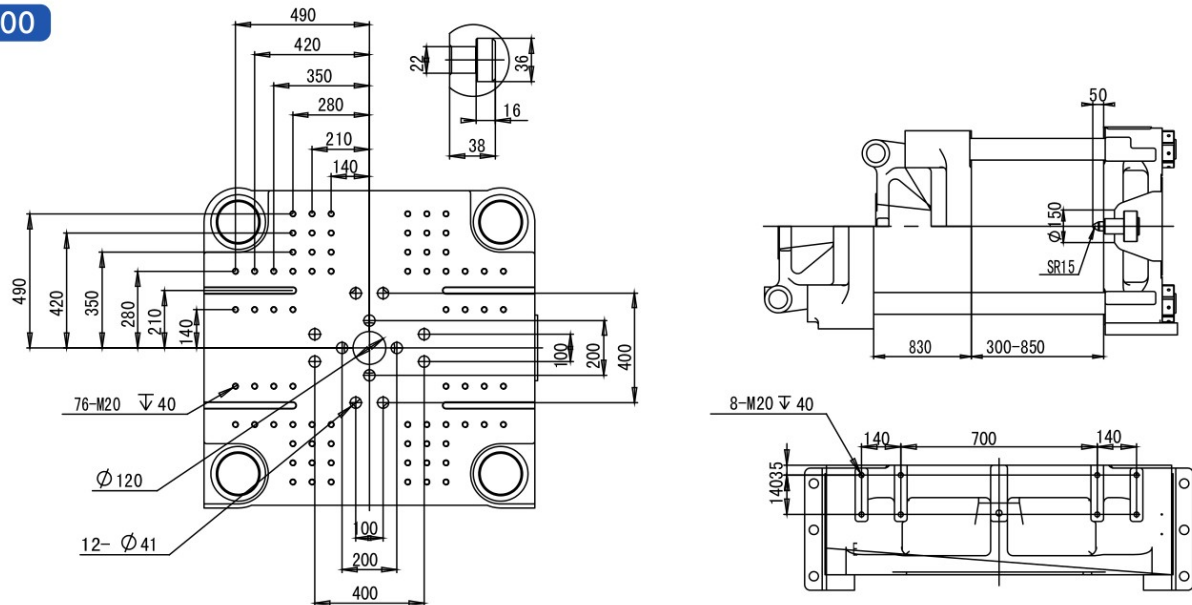
PowerJet KIII500-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 5000-3600

5,000 kN

≈ 510 ton
Clamping force

KIII500



Product introduction

The KIII500-S8 is the key model of the 5,000 kN category, with four screw size options (Ø75–100 mm). From 500 t, servo motor gearbox-driven electric plasticizing provides high-torque, precise material preparation. With nearly 2.73 kg maximum shot weight and a 1230×1190 mm platen, it accommodates large molds.

Typical applications

- Large automotive exterior parts (bumpers, hood components)
- Logistics crates and large pallet system components
- Industrial storage systems (large crates, containers)
- Large agricultural fittings and tank components
- Large packaging containers and tanks

Technical specifications

Parameter	Value
Clamping force	5,000 kN (≈ 510 ton)
Opening stroke	830 mm
Platen size	1230×1190 mm
Space between tie bars	820×780 mm
Max. mold height	850 mm
Min. mold height	300 mm
Ejector stroke	220 mm
Ejector force	135 kN
Ejector arrangement	1+12
Screw diameter range	Ø75 – Ø100 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	63.6 kW
Heater power	33.2 kW
Oil tank capacity	640 liter
Machine weight	18.5 ton
Machine dimensions (L×W×H)	8.7×2.1×2.6 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø75 mm	21	210	1723	1534	490	93	0–200
Ø83 mm	21.8	171	2110	1879	601	115	0–200
Ø90 mm	20	146	2481	2209	706	130	0–200
Ø100 mm	19	118	3063	2727	872	160	0–200

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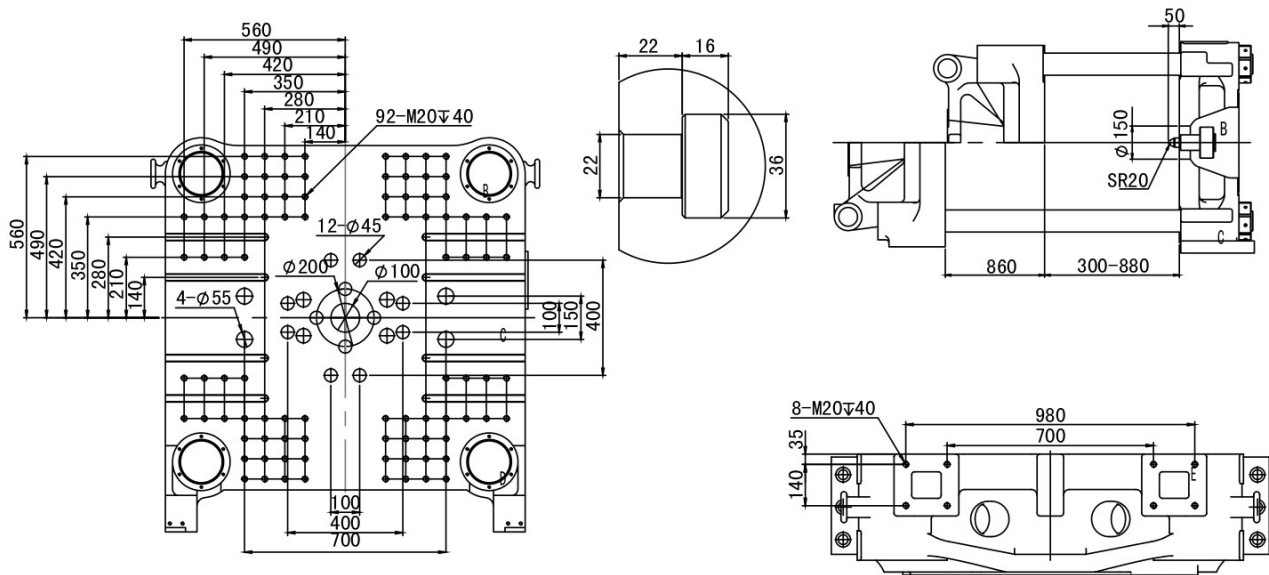
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PowerJet KIII560-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 5600-4500

5,600 kN

≈ 571 ton
Clamping force



Product introduction

The KIII560-S8 is the standout model of the 5,600 kN category with a 1+16 ejector pin system. Its square 1230×1230 mm platen is ideal for symmetrical, large multi-cavity molds. Servo motor electric plasticizing ensures precise melt dosing even for products with large shot weights.

Typical applications

- Large automotive structural parts (trunk interior, floor panel)
- Large logistics crates, Euro pallet elements
- Industrial tanks and large storage parts
- Large molded agricultural elements
- Large packaging containers (20 L+ tanks)

Technical specifications

Parameter	Value
Clamping force	5,600 kN (≈ 571 ton)
Opening stroke	860 mm
Platen size	1230×1230 mm
Space between tie bars	860×860 mm
Max. mold height	880 mm
Min. mold height	300 mm
Ejector stroke	240 mm
Ejector force	135 kN
Ejector arrangement	1+16
Screw diameter range	Ø75 – Ø100 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor belt drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	63.6 kW
Heater power	33.2 kW
Oil tank capacity	700 liter
Machine weight	23.0 ton
Machine dimensions (L×W×H)	9.3×2.2×2.1 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø75 mm	21	231	1944	1769	418	93	0–200
Ø83 mm	21.8	188	2381	2166	512	115	0–200
Ø90 mm	20	160	2799	2547	602	130	0–200
Ø100 mm	19	130	3456	2145	743	160	0–200

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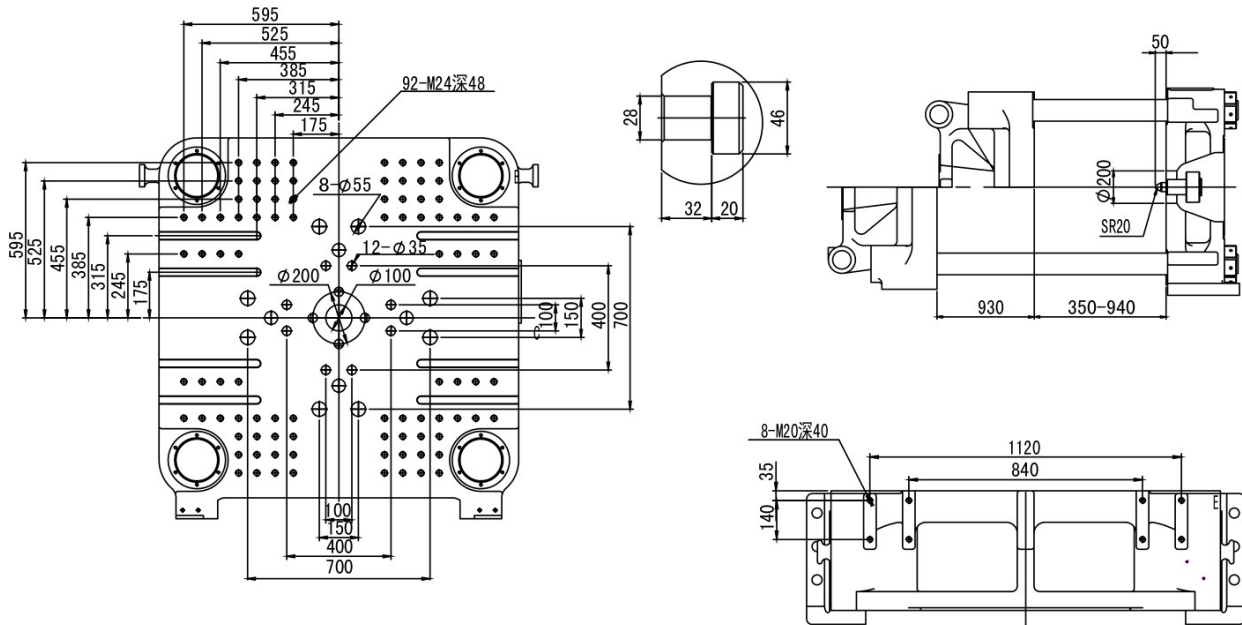
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PowerJet KIII680-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 6800-5500

6,800 kN

≈ 693 ton
Clamping force



Product introduction

The KIII680-S8 is the entry model of the large-machine category with 6,800 kN clamping force and a 1+20 ejector pin system. From 680 t, servo motor gearbox-driven electric plasticizing provides high torque even for filled materials. With four screw size options (Ø85–110 mm) and a maximum shot weight above 4 kg, it handles the most demanding industrial tasks.

Typical applications

- Large automotive body and structural components
- Large industrial crates, pallet systems, containers
- Heavy logistics parts (Euro pallets, transport equipment)
- Construction plastic parts (drainage elements)
- Large agricultural equipment and tank components

Technical specifications

Parameter	Value
Clamping force	6,800 kN (≈ 693 ton)
Opening stroke	930 mm
Platen size	1400×1400 mm
Space between tie bars	940×940 mm
Max. mold height	940 mm
Min. mold height	350 mm
Ejector stroke	280 mm
Ejector force	184 kN
Ejector arrangement	1+20
Screw diameter range	Ø85 – Ø110 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor gearbox drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	40+30.8 kW
Heater power	39.3 kW
Oil tank capacity	720 liter
Machine weight	26.0 ton
Machine dimensions (L×W×H)	10.0×2.2×2.1 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø85 mm	23.5	208	2667	2422	566	108	0–160
Ø90 mm	22.4	186	2990	2716	635	126	0–160
Ø100 mm	20	150	3691	3353	784	162	0–160
Ø110 mm	18.5	124	4467	4057	949	188	0–160

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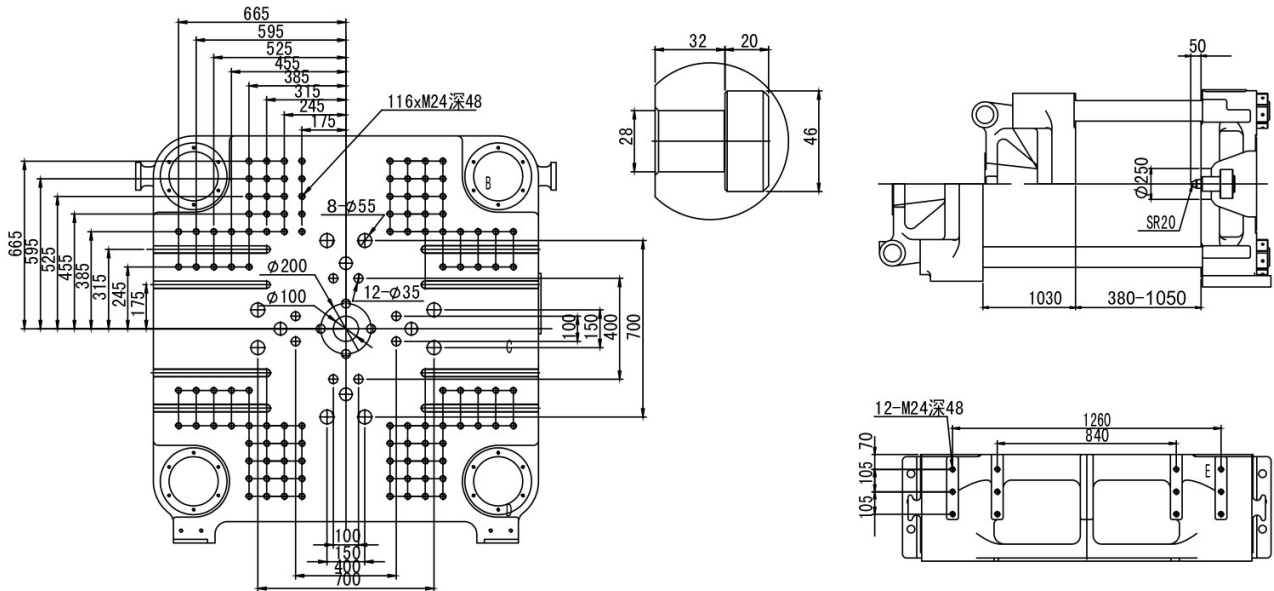
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PowerJet KIII850-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 8500-7400

8,500 kN

≈ 867 ton
Clamping force



Product introduction

The KIII850-S8 is the flagship of the 850-ton category with 8,500 kN clamping force. Its maximum shot weight reaches 5,094 g. Servo motor gearbox-driven electric plasticizing delivers high torque and precise dosing even at the largest shot weights. The 1550×1550 mm platen offers one of the largest mold capacities in the series.

Typical applications

- Large automotive body parts (door panels, bumpers)
- Large logistics crates, Euro pallet systems
- Infrastructure and drainage parts (large fittings)
- Plastic body parts for agricultural machines
- Industrial large tanks, containers and storage systems

Technical specifications

Parameter	Value
Clamping force	8,500 kN (≈ 867 ton)
Opening stroke	1030 mm
Platen size	1550×1550 mm
Space between tie bars	1040×1040 mm
Max. mold height	1050 mm
Min. mold height	380 mm
Ejector stroke	280 mm
Ejector force	184 kN
Ejector arrangement	1+20
Screw diameter range	Ø90 – Ø120 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor gearbox drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	55.3+45 kW
Heater power	41.6 kW
Oil tank capacity	800 liter
Machine weight	35.0 ton
Machine dimensions (L×W×H)	10.4×2.4×2.2 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø90 mm	23.5	235	3149	2866	590	118	0–160
Ø100 mm	21	190	3888	3538	729	146	0–160
Ø110 mm	20	157	4704	4281	882	176	0–160
Ø120 mm	18.3	132	5598	5094	1050	209	0–160

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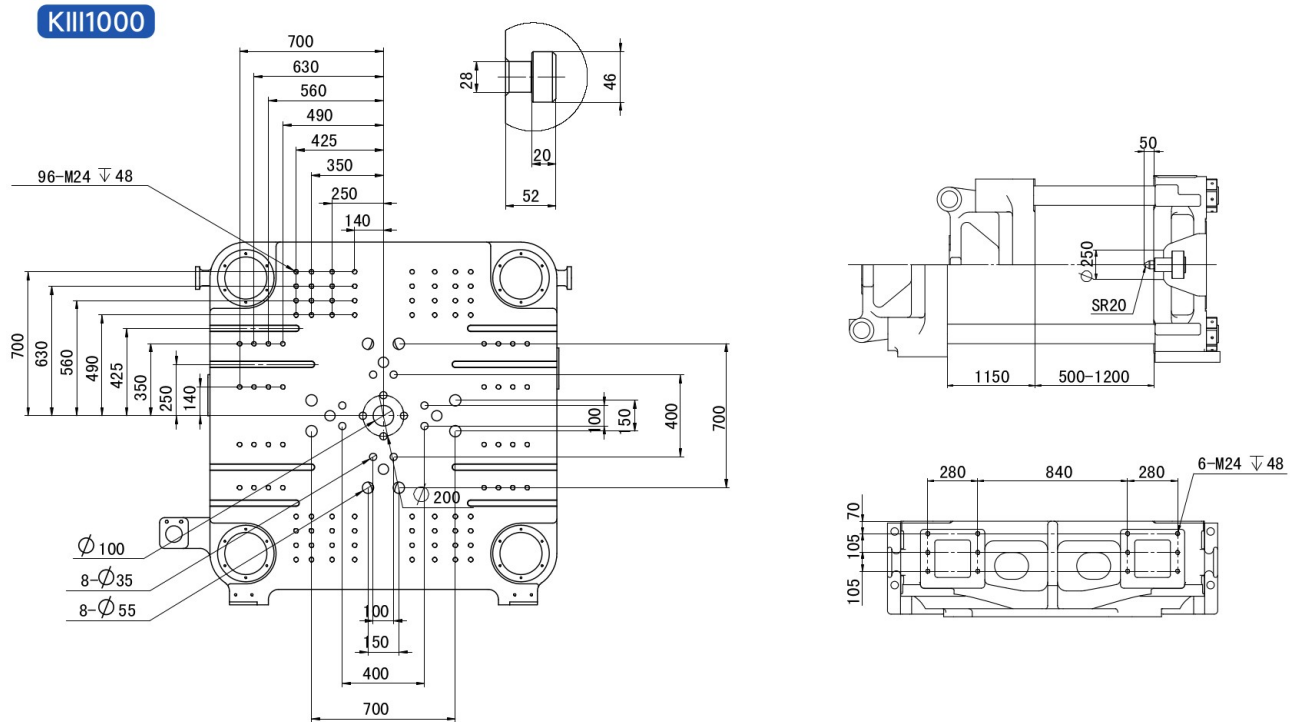
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PowerJet KIII1000-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 10000-9530

10,000 kN

≈ 1020 ton
Clamping force



Product introduction

The KIII1000-S8 is the reference model of the thousand-ton category with 10,000 kN clamping force. With a maximum shot weight close to 6.64 kg and a 1690×1690 mm platen, it offers one of the largest workspaces in the series. Servo motor gearbox-driven electric plasticizing provides high torque for the most demanding industrial requirements.

Typical applications

- Large automotive body parts and complex assemblies
- Large logistics crates, pallet systems
- Infrastructure drainage elements and large fittings
- Large industrial tanks and storage system parts
- Plastic body parts for large agricultural machines

Technical specifications

Parameter	Value
Clamping force	10,000 kN ($\approx$ 1020 ton)
Opening stroke	1150 mm
Platen size	1690×1690 mm
Space between tie bars	1160×1160 mm
Max. mold height	1200 mm
Min. mold height	500 mm
Ejector stroke	350 mm
Ejector force	290 kN
Ejector arrangement	1+20
Screw diameter range	Ø100 – Ø130 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor gearbox drive
Controller	KEBA 12" touchscreen 100 μ s CPU 1000 mold memory
Pump motor power	55.3+55.3 kW
Heater power	49.5 kW
Oil tank capacity	900 liter
Machine weight	50.0 ton
Machine dimensions (L×W×H)	11.4×2.7×2.34 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm ³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø100 mm	23	221	4320	3931	699	151	0–160
Ø110 mm	21	182	5227	4756	845	182	0–160
Ø120 mm	19.2	153	6220	5661	1006	217	0–160
Ø130 mm	18.5	131	7300	6643	1181	265	0–160

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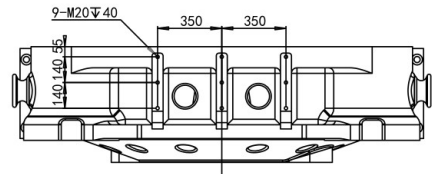
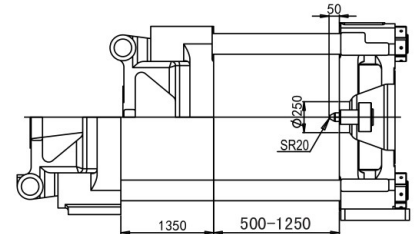
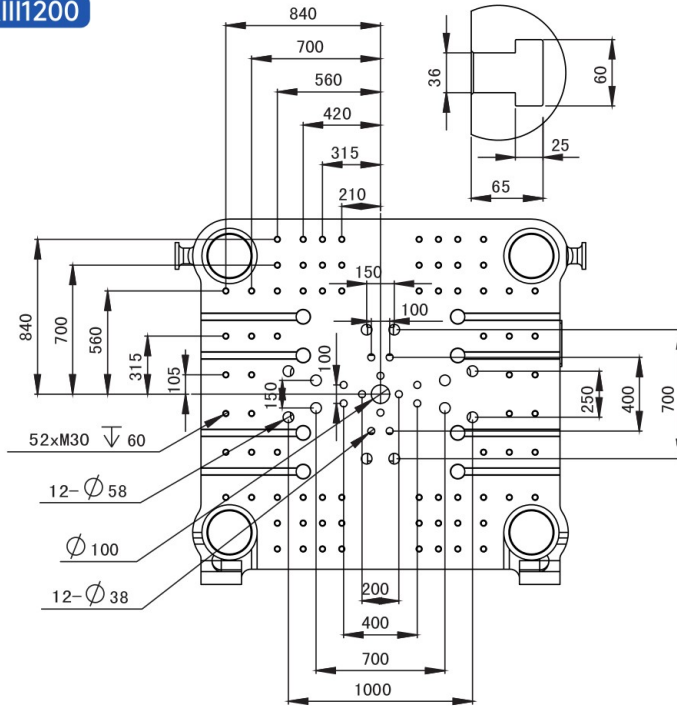
PowerJet KIII1200-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 12000-9530

12,000 kN

≈ 1223 ton
Clamping force

KIII1200



Product introduction

The KIII1200-S8 is the higher-clamping-force variant of the KIII1000 with 12,000 kN clamping force. The enlarged 1800×1800 mm platen and the 1+24 ejector pin system are particularly suitable for complex, large-area parts. It uses the same injection unit options as the KIII1000.

Typical applications

- Very large automotive body parts (complex bumpers, roof elements)
- Heavy-industrial crates, Euro containers, shipping trays
- Large infrastructure components (sewer fittings, drainage sections)
- Large body parts for agricultural and forestry machines
- Large industrial storage tanks

Technical specifications

Parameter	Value
Clamping force	12,000 kN (≈ 1223 ton)
Opening stroke	1310 mm
Platen size	1800×1800 mm
Space between tie bars	1250×1250 mm
Max. mold height	1250 mm
Min. mold height	500 mm
Ejector stroke	320 mm
Ejector force	215 kN
Ejector arrangement	1+24
Screw diameter range	Ø100 – Ø130 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor gearbox drive
Controller	KEBA 12" touchscreen 100 µs CPU 1000 mold memory
Pump motor power	55.3+55.3 kW
Heater power	49.5 kW
Oil tank capacity	900 liter
Machine weight	56.0 ton
Machine dimensions (L×W×H)	11.6×2.91×2.5 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø100 mm	23	221	4320	3931	699	151	0–160
Ø110 mm	21	182	5227	4756	845	182	0–160
Ø120 mm	20	153	6220	5661	1006	217	0–160
Ø130 mm	18.5	131	7300	6643	1181	265	0–160

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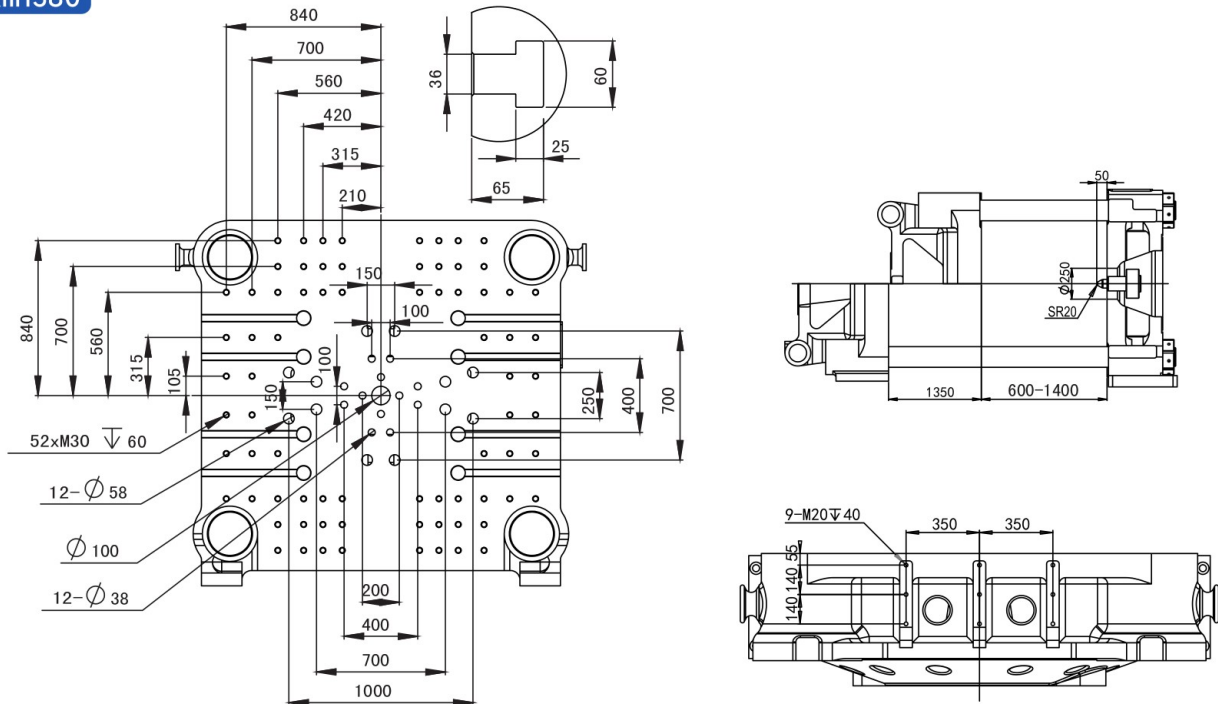
PowerJet KIII1380-S8

Servo-Hydraulic + Electric Charging Injection Molding Machine
Model: 13800-12000

13,800 kN

≈ 1407 ton
Clamping force

KIII1380



Product introduction

The KIII1380-S8 is the flagship model of the PowerJet KIII series with 13,800 kN clamping force. With a maximum shot weight close to 8.7 kg, a massive 2000×1950 mm platen and a 1+24 ejector pin system, it represents the absolute top of the series. Servo motor gearbox-driven electric plasticizing provides ample torque even for the most demanding heavy-industrial projects.

Typical applications

- Largest automotive body parts (full bumpers, roof panels)
- Very large logistics containers, Euro pallet systems
- Large infrastructure elements (sewer fittings)
- Heavy-industrial tanks and silo base elements
- Large agricultural and construction plastic structures

Technical specifications

Parameter	Value
Clamping force	13,800 kN ($\approx$ 1407 ton)
Opening stroke	1350 mm
Platen size	2000×1950 mm
Space between tie bars	1420×1280 mm
Max. mold height	1400 mm
Min. mold height	600 mm
Ejector stroke	380 mm
Ejector force	300 kN
Ejector arrangement	1+24
Screw diameter range	Ø110 – Ø140 mm
Injection speed	Standard >100 mm/s
Drive system	Servo-hydraulic + electric charging
Charging drive type	Servo motor gearbox drive
Controller	KEBA 12" touchscreen 100 μ s CPU 1000 mold memory
Pump motor power	63.7+55.3 kW
Heater power	84.2 kW
Oil tank capacity	1200 liter
Machine weight	70.0 ton
Machine dimensions (L×W×H)	13.0×3.0×2.8 m

Injection unit – screw size variants

Each row represents one screw diameter option. Different screws can be matched to different materials and shot weights.

Screw Ø	L/D ratio	Inj. pressure (MPa)	Shot volume (cm ³)	Shot weight PS (g)	Inj. rate (g/s)	Plast. cap. (g/s)	Screw rotation (rpm)
Ø110 mm	21	205	5892	5362	836	147	0–125
Ø120 mm	21	173	7012	6381	995	175	0–125
Ø130 mm	19.3	147	8229	7489	1168	205	0–125
Ø140 mm	18.9	127	9544	8685	1355	248	0–125

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Standard equipment

Device Configuration – Standard Devices | PowerJet KIII Series

1. Clamping Unit

- | | |
|--|---|
| <ul style="list-style-type: none"> • High-strength nodular cast iron platens and toggles • Euromap 18 robot mounting holes • Hydraulic gear drive for mold adjustment • Five-point double toggle clamping mechanism • Dual electrical and hydraulic interlock, dual feedback signal • Wear-resistant manganese steel rail under moving platen • Automatic centralized lubrication system • Multiple ejection functions • Low-pressure mold protection | <ul style="list-style-type: none"> • T-slot + mounting hole composite platen • Automatic mold thickness adjustment • Forced ejector return reset • Anti-jamming buffer strip on safety door • Closed protective door on clamping unit • Ejector backward confirmation • High-rigidity, low-stress platen structure • Intelligent open/close control |
|--|---|

2. Injection unit

- | | |
|---|--|
| <ul style="list-style-type: none"> • Dual-cylinder balanced injection system • Electric charging (electric plasticizing) • Nitrided alloy steel screw and barrel • Cooling device at hopper feeding area • Nozzle and barrel multi-section PID temperature control • Nozzle protection cover • Anti-cold-start screw protection • Automatic purge function • Optional pre/post-plasticizing loose retraction | <ul style="list-style-type: none"> • Sliding rail unloading device • Screw rotation detection • Manual centralized grease lubrication pump on injection unit • Stainless steel hopper • Dual injection cylinder group • Double-layer injection unit base, double linear guide rail • Nozzle centering device • High-precision optimized barrel |
|---|--|

3. Hydraulics

- | | |
|---|---|
| <ul style="list-style-type: none"> • High-performance servo-motor controlled power system • High-precision real-time bypass oil filter • Low-noise energy-saving hydraulic circuit • Differential fast mold-clamping oil circuit • Mold-brake oil circuit (open-mold back-pressure) • Automatic oil temperature detection and | <ul style="list-style-type: none"> • 2 sets of core pulling devices (KIII500 and above) • Proportional back-pressure control • Proportional valve control for mold opening/closing • Water distributors: KIII90–288: 7 sets KIII330–500: 9 sets above 500 t: 13 sets • Hydraulic safety valve with position feedback |
|---|---|

alarm

- 1 set of core pulling devices (KIII400 and below)

- Low-friction sealing elements

4. Electrical section

- Precision linear transducer: clamping/ejector/injection stroke
- Forced barrel heating protection
- Input/output viewing screen
- Automatic insulation and automatic heating setup
- Injection-to-holding switchover: time / position / time+position
- 12" TFT true-color LCD screen
- 1000 mold memory slots, USB port
- Multiple operating languages
- Multi-level password protection, lockable operator panel
- Front and rear emergency stop switches

- Quality data process control interface
- SPC (Statistical Process Control) real-time list
- Air-blast / core-pull interface reserved
- 3× AC380V/32A three-phase + 1× AC220V/10A socket
- Hot runner pin valve control (with software, without hardware)
- Robot electrical interface (with software, without hardware)
- Energy consumption display
- System hardware I/O diagnostics
- Digital back-pressure control (for electric charging)

5. General

- Instruction manual
- Vibration mounts
- Toolkit + precision filter cartridge
- Mold clamps (Zhu-type)
- Special nozzle wrench

- Wear parts kit
- Standard machine color
- +50 mm extended nozzle (2,500 kN and below)
- +100 mm extended nozzle (2,880 kN and above)

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Optional equipment

Device Configuration – Optional Configuration | PowerJet KIII Series

1. Clamping Unit

- | | |
|--|--|
| <ul style="list-style-type: none"> • Automatic clamping force adjustment as needed • Special mold mounting holes • Mold hanger (2,000 kN and below) • Mold insulation board • Enlarged ejector force and ejector stroke | <ul style="list-style-type: none"> • Enlarged max. mold height • Magnetic platen • Manual grease lubrication pump – clamping unit • Automatic grease lubrication pump – clamping unit (680 t+ standard) • Fixed-platen mold locating ring replacement |
|--|--|

2. Injection unit

- | | |
|---|--|
| <ul style="list-style-type: none"> • Ceramic heater • Special screw and barrel (electroplated, bimetallic, PC, PMMA, PBT, PA, POM, UPVC, SPVC, bakelite, etc.) • Barrel fan cooling • Spring nozzle • Increased injection stroke or screw/barrel size change | <ul style="list-style-type: none"> • Infrared heating ring • Increased torque for electric plasticizing (high-viscosity materials) • Injection speed acceleration • Injection closed-loop function |
|---|--|

3. Hydraulics

- | | |
|---|---|
| <ul style="list-style-type: none"> • Other core-pulling types – specify in writing • Synchronous plasticizing • Synchronous ejection and core pulling • Glass tube cooling flow meter | <ul style="list-style-type: none"> • Electrical controlled water valve (oil-side) • Electrical controlled water valve (hopper cooling) • Multiple water distributors with quick connectors |
|---|---|

4. Electrical section

- | | |
|---|--|
| <ul style="list-style-type: none"> • SPI12 robot terminal • Euromap 67 robot terminal • Euromap 12 robot terminal • Electric safety door (8,500 kN and above standard) • Hot-runner interface • Pneumatic sequence valve • Electric rotary unscrewing interface • Supply voltage change | <ul style="list-style-type: none"> • Front and rear safety door grating • Electricity meter • SSR heater control (5,000 kN and above standard) • European brand PLC • Safety switches on front and rear doors • Core-pulling system to Euromap 13 • Main air switch locking (2,000 kN and below) • Wiring terminals to European standard |
|---|--|

- Air blast unit (1 set)
- Multiple air blast units
- Gas-assisted injection
- Network monitoring – central factory connection

- Pipe factory networking function
- Electrical hardware interlock protection
- USB-extensible storage capacity

5. General

- Hydraulic oil
- Hopper dryer

- Autoloader