

CYBER IN SYSTEMS KFT.

Exclusive PowerJet Distributor

PowerJet KII Series

Servo-Hydraulic Precision Injection Molding Machines

900 – 13 800 kN | 15 machine sizes

Product Catalogue



01

More energy-efficient

Servo-hydraulic drive: 30–50% lower energy consumption

02

More precise and stable

Toggle clamping system + double linear-rail injection unit

03

Wider application

900 – 13 800 kN: 15 sizes for every industry

04

Longer service life

FEA-optimized frame and mold platens

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1. Servo-Hydraulic Drive System

Variable-speed servo motor – consumes only as much as needed

Variable-speed servo motor

The KII series is servo-hydraulic: a variable-speed servo motor drives the hydraulic pump. The motor only works when and as much as needed.

30–50% lower energy consumption

- During cooling phase the motor nearly stops – no idle losses
- Lower noise level and heat emission
- Reduced cooling water demand
- Compared to conventional machines: typically 2–3 year payback period

High-torque hydraulic motor

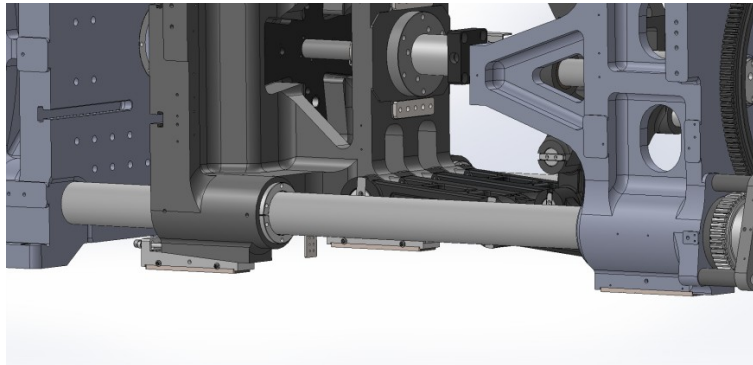
A low-speed, high-torque hydraulic motor performs screw plasticizing. Stepless speed control, torque limiting.

- Stepless screw speed control
- High torque for varied materials
- Simple, reliable design – low maintenance

2. Clamping Unit

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

The entire KII series uses a center-press toggle clamping mechanism. The mold platens, optimized through finite element analysis, ensure minimal deformation, which directly improves product dimensional accuracy.



Clamping system advantages

- Stable and fast mold closing – toggle mechanism
- Reduced mold wear – uniform clamping force distribution
- Balanced clamping cylinder – precise opening positioning
- Entire series with European-style ejector mechanism
- Intelligent opening/closing control – vibration-free motion

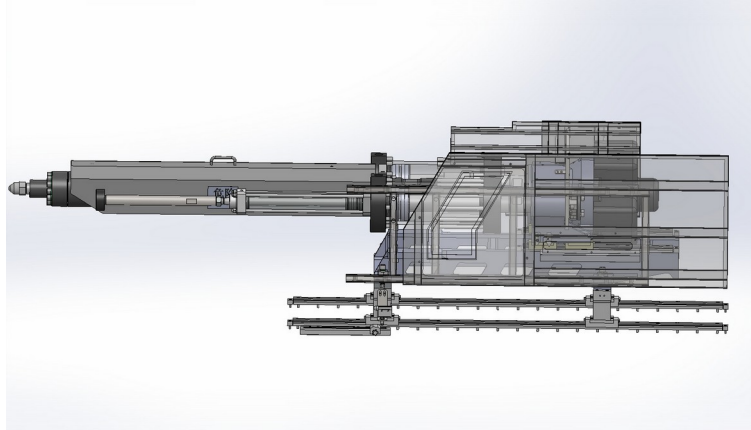
Mold platen characteristics

- Stationary platen: FEA-optimized, low deformation
- Moving (2nd) platen: center-press FEA – minimal mounting surface variation
- Rear platen: high rigidity + low stress
- Lengthened, low-stress, long-life tie bars
- T-slot + mounting hole platen, adjustable centering ring

3. Injection Unit

Double linear-rail system – >100 mm/s | precise | stable | energy-efficient

The KII series injection unit features a double linear-rail design with dual-cylinder balanced injection. Standard configuration delivers >100 mm/s injection rate – the foundation of precision production.



>100 mm/s standard injection rate

Standard configuration delivers >100 mm/s – shorter cycle time, better product quality, more efficient production.

Dual-cylinder balanced injection

Higher injection pressure, simpler and more stable design, lower failure rate, space-saving construction.

Double linear-rail injection unit

Dual rails + extended guides + two-stage injection unit structure. Strong and stable injection force at high speed.

Electronic position measurement

Precise, repeatable screw positioning for injection and plasticizing stroke control – the foundation of dimensional accuracy.

4. Frame and Machine Structure

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

The frame is optimized through finite element analysis (FEA) for all loading points. The result: high rigidity, excellent vibration damping and stable production – even at high running speeds.

Vibration damping

Reinforced rigid frame: 30% better vibration damping. Stable product quality even at high running speeds.

Oil cooling

Small machines (90–330 t) have built-in oil tank cooler (+30% heat dissipation). Large machines have external cooler within the frame.

Hydraulic oil quality

Anti-contamination, bubble-free oil tank design. Bypass filter: clean, durable hydraulic oil.

Electrical cabinet

External cabinet: separated power and signal currents. Reduced control signal interference. Large cooling area.

Safety doors

Front: type III safety door. Rear: type II. Front and rear emergency stops, computer reset.

Opening/closing control

Opening and closing oil return separated: more stable high-speed operation, more precise positioning.

5. KEBA Control System

12" touchscreen | 100 μ s CPU | 990 mold memory



KEBA – Fast, precise, user-friendly

The KEBA control system features a 12-inch touchscreen and 100 μ s CPU processing cycle. 990 mold memory positions minimize downtime during product changeover.

- 12" large touchscreen – swivel, ergonomic
- CPU 100 μ s – fast response, high control accuracy
- 990 mold memory positions – fast and error-free changeover
- Single-screen overview of machine status
- Intelligent fault diagnosis – alarms and causes in one place
- USB program update – simple software maintenance
- Communicates with servo drive – parameters can be modified

KEBA controller – Additional functions

- Each motion ramp curve individually adjustable
- Custom I/O point configuration – easy service and modification
- Free combination of multiple pumps as needed (oil circuit configuration)
- Production data monitoring function – production statistics
- Active safety valve standard on every machine size
- Proportional valve control (400 t+): fine motion control on large machines

6. Why PowerJet KII?

6 key strengths of the series – sales summary

Energy efficiency Servo-hydraulic drive: 30–50% lower energy consumption. Typically 2–3 year payback compared to conventional hydraulic machines.	Precision production Double linear-rail injection unit + 100 µs CPU control: reproducible, accurate products. Standard >100 mm/s injection rate.	Long service life FEA-optimized frame and mold platens. Lengthened, low-stress tie bars. Reduced mold wear.
Wide size range 900 – 13 800 kN clamping force, 15 machine sizes. Identical quality standard and technology level across all size classes.	Reliable safety Type III+II safety doors, double interlocking, hydraulic safety valve, front and rear emergency stops.	CIS Hungarian support Exclusive distributor. Local service, spare parts supply, commissioning, training, full local support.

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PowerJet KII90-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 900-300

900 kN

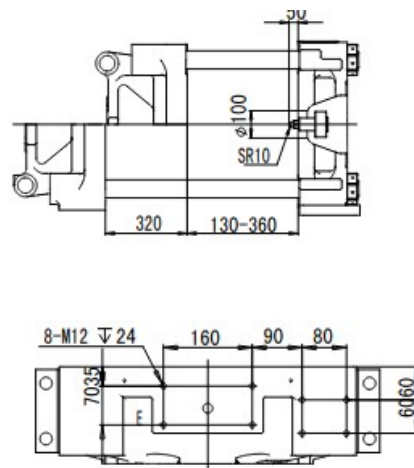
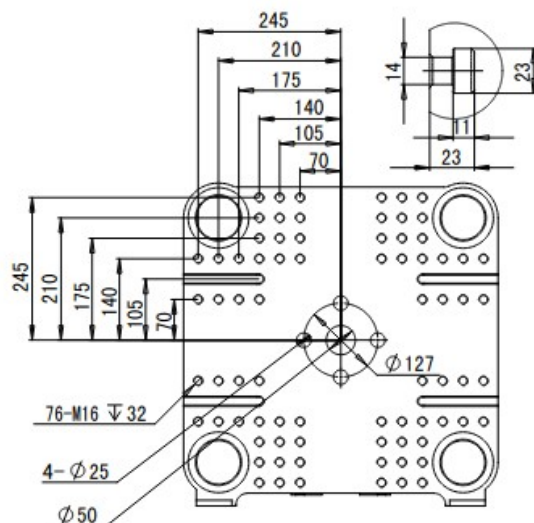
≈ 92 ton clamping force

Product description

The KII90-S8 is the smallest yet exceptionally precise member of the PowerJet KII series with 900 kN clamping force. Its servo-hydraulic drive system and double linear-rail injection unit deliver injection rates above 100 mm/s. Despite its compact size, the KEBA controller with 990 mold memory positions and 100 μ s CPU cycle enables fast and reproducible production for series manufacturing of small parts.

Typical applications

- Electronic components (connectors, switches, housings)
- Medical precision small parts
- Packaging caps and closure elements
- Small household plastic products
- Technical precision parts (PA, POM, PC materials)



Technical data

Parameter	Unit	Value
Clamping force	kN	900 (≈ 92 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	320
Platen size	mm	540×540
Space between tie bars	mm	360×360
Max. mold height	mm	360
Min. mold height	mm	130
Ejector stroke	mm	100
Ejector force	kN	34
Ejector arrangement		1+4
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	15
Heater power	kW	6.5
Oil tank capacity	l	112
Machine weight	t	3
Machine dimensions (L × W × H)	m	4.0×1.2×1.77

Injection unit – screw size variants

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)
Ø30	20.7	267	113	101	84	13	0–267
Ø36	20	186	163	145	121	20	0–267
Ø42	17.2	136	222	198	164	27	0–267

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII128-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 1280-450

1 280 kN

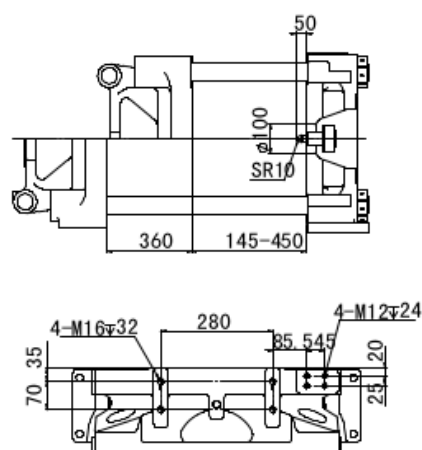
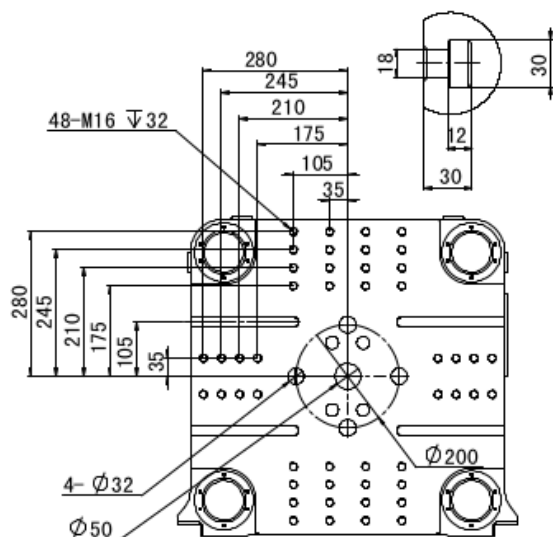
≈ 130 ton clamping force

Product description

The KII128-S8 is a reliable entry-level model in the small-medium category with 1 280 kN clamping force. Its servo-hydraulic drive ensures energy-efficient and quiet operation. Three screw size options ($\varnothing 36$ – 45 mm) provide flexibility for different materials and shot weights.

Typical applications

- Packaging products (caps, lids, smaller bottles)
- Smaller household plastic products
- Electronic housing and panel elements
- Automotive small interior parts, clips
- Technical parts in PA, POM, ABS materials



Technical data

Parameter	Unit	Value
Clamping force	kN	1 280 (≈ 130 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	360
Platen size	mm	610×610
Space between tie bars	mm	410×410
Max. mold height	mm	450
Min. mold height	mm	145
Ejector stroke	mm	120
Ejector force	kN	42
Ejector arrangement		1+4
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	18.4
Heater power	kW	8.3
Oil tank capacity	l	139
Machine weight	t	3.8
Machine dimensions (L × W × H)	m	4.5×1.3×1.85

Injection unit – screw size variants

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)
Ø36	23	228	193	178	123	20	0–250
Ø40	20	184	239	220	152	29	0–250
Ø45	18.2	146	302	278	192	36	0–250

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII160-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 1600-600

1 600 kN

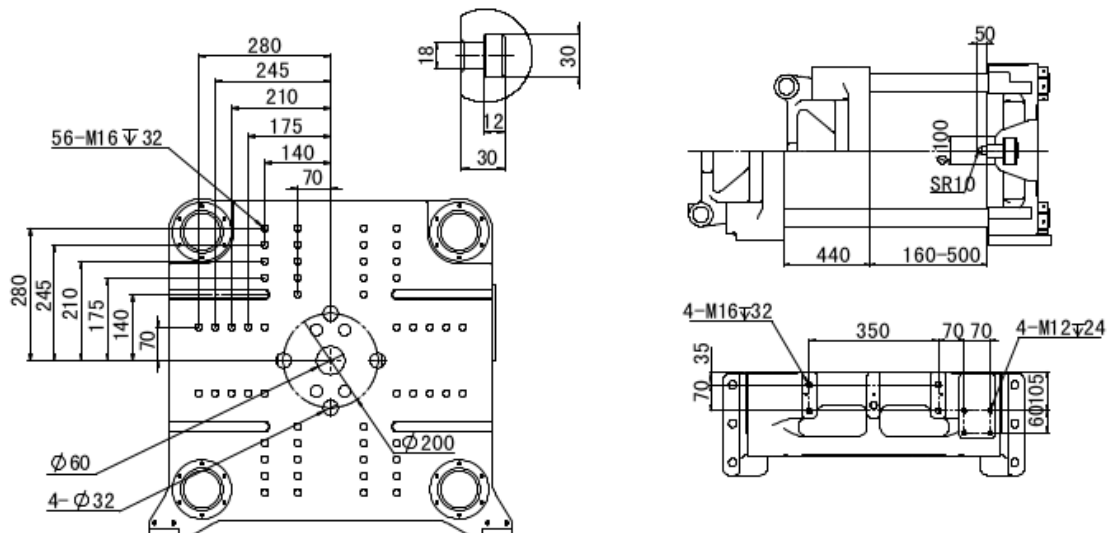
≈ 163 ton clamping force

Product description

The KII160-S8 is a reliable and energy-efficient representative of the 160-ton category with 1 600 kN clamping force. Its center-press toggle clamping mechanism provides fast and quiet closing. The double linear-rail injection unit delivers injection rates above 100 mm/s. Three screw size options (Ø42–52 mm) cover a wide range of materials and shot weights.

Typical applications

- Medium-size packaging products (boxes, trays, lids)
- Automotive small-medium interior parts, fasteners
- Household and FMCG products (buckets, cans)
- Technical parts (PA, PC, ABS reinforced materials)
- Agricultural small-medium fittings and connectors



Technical data

Parameter	Unit	Value
Clamping force	kN	1 600 (≈ 163 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	440
Platen size	mm	686×686
Space between tie bars	mm	470×470
Max. mold height	mm	520
Min. mold height	mm	160
Ejector stroke	mm	140
Ejector force	kN	49
Ejector arrangement		1+4
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	25.1
Heater power	kW	9.8
Oil tank capacity	l	198
Machine weight	t	5
Machine dimensions (L × W × H)	m	4.9×1.4×1.90

Injection unit – screw size variants

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)
Ø42	22	214	284	253	165	27	0–250
Ø46	20	178	341	303	198	35	0–250
Ø52	17.4	140	435	388	253	45	0–250

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII200-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 2000-900

2 000 kN

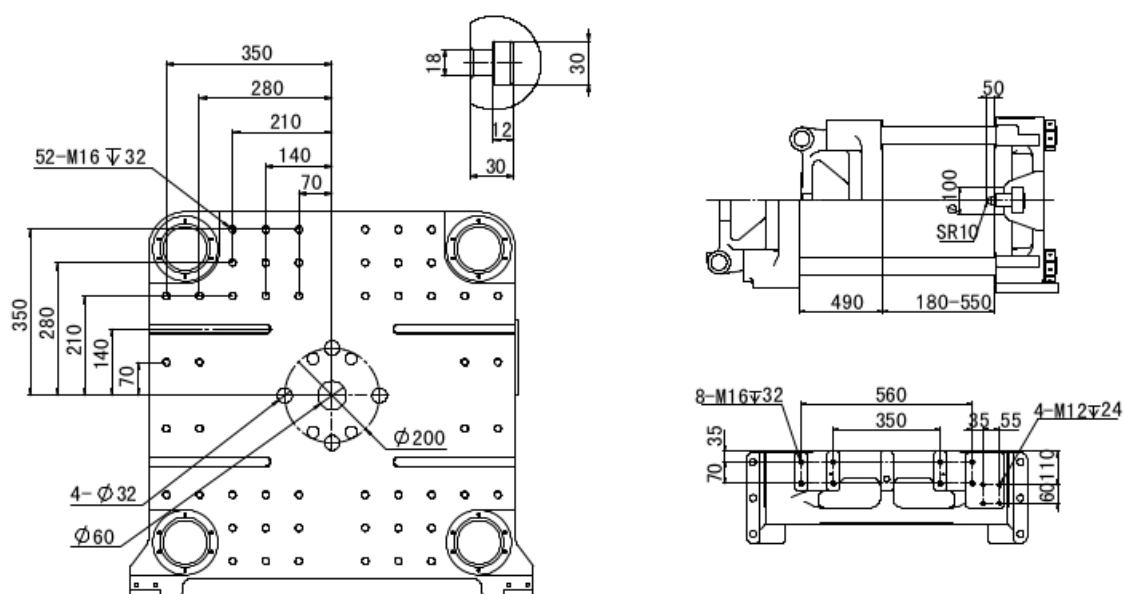
≈ 204 ton clamping force

Product description

The KII200-S8 is the leading model of the 200-ton category with 2 000 kN clamping force and three screw size options ($\varnothing 46$ – 60 mm). Its servo-hydraulic drive is energy-efficient and quiet. The center-press toggle clamping mechanism guarantees high mold accuracy.

Typical applications

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



Technical data

Parameter	Unit	Value
Clamping force	kN	2 000 (≈ 204 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	490
Platen size	mm	793×793
Space between tie bars	mm	530×530
Max. mold height	mm	550
Min. mold height	mm	180
Ejector stroke	mm	150
Ejector force	kN	65
Ejector arrangement		1+4
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	33.5
Heater power	kW	10.9
Oil tank capacity	l	253
Machine weight	t	6.4
Machine dimensions (L × W × H)	m	5.4×1.4×2.05

Injection unit – screw size variants

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)
Ø46	23	220	407	363	203	37	0–267
Ø52	20	172	520	463	260	51	0–267
Ø60	18.5	130	693	617	346	73	0–267

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII250-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 2500-985

2 500 kN

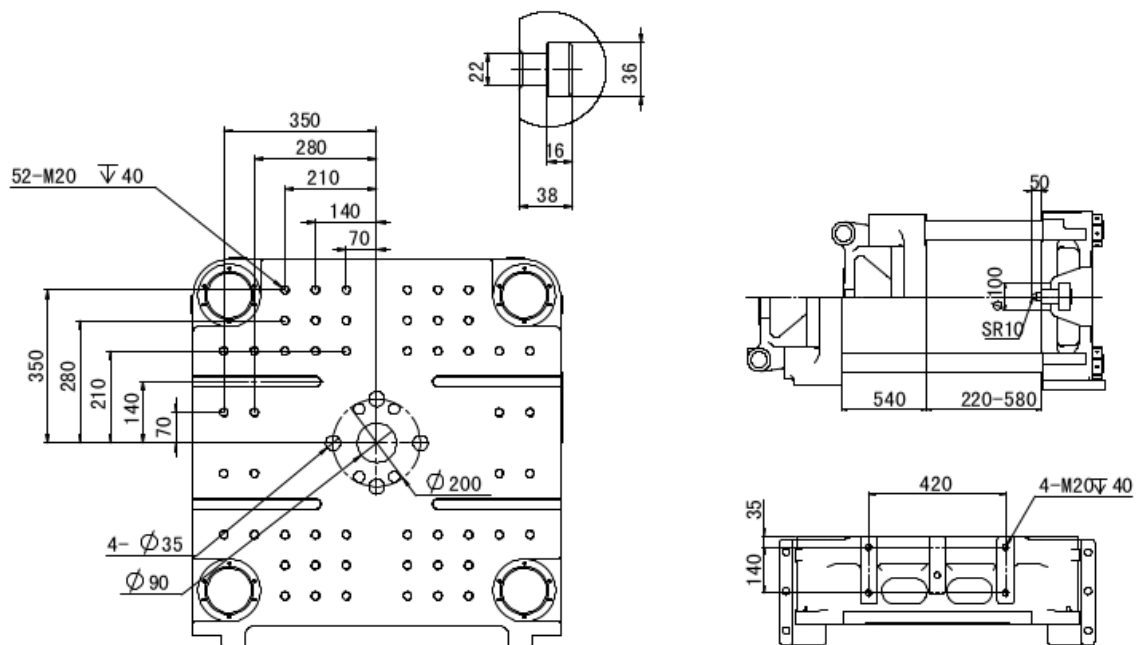
≈ 255 ton clamping force

Product description

The KII250-S8 is the ideal solution in the 250-ton category with 2 500 kN clamping force. It shares the same screw size options as the KII200, but its larger clamping force and opening stroke accommodate more complex and larger molds.

Typical applications

- Medium-large packaging containers and crates
- Automotive structural and panel elements
- Agricultural plastic parts and fittings
- Household durable goods (buckets, storage, kitchenware)
- Logistics auxiliary equipment (pallet corners, protective elements)



Technical data

Parameter	Unit	Value
Clamping force	kN	2 500 (≈ 255 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	540
Platen size	mm	871×871
Space between tie bars	mm	580×580
Max. mold height	mm	580
Min. mold height	mm	220
Ejector stroke	mm	150
Ejector force	kN	77
Ejector arrangement		1+4
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	33.5
Heater power	kW	10.9
Oil tank capacity	l	320
Machine weight	t	7.6
Machine dimensions (L × W × H)	m	5.6×1.5×2.05

Injection unit – screw size variants

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)
Ø46	23	220	449	408	203	37	0–267
Ø52	20	172	573	522	260	51	0–267
Ø60	18.5	130	763	695	346	73	0–267

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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Servo-Hydraulic Precision Injection Molding Machine

Model: 2880-1370

2 880 kN

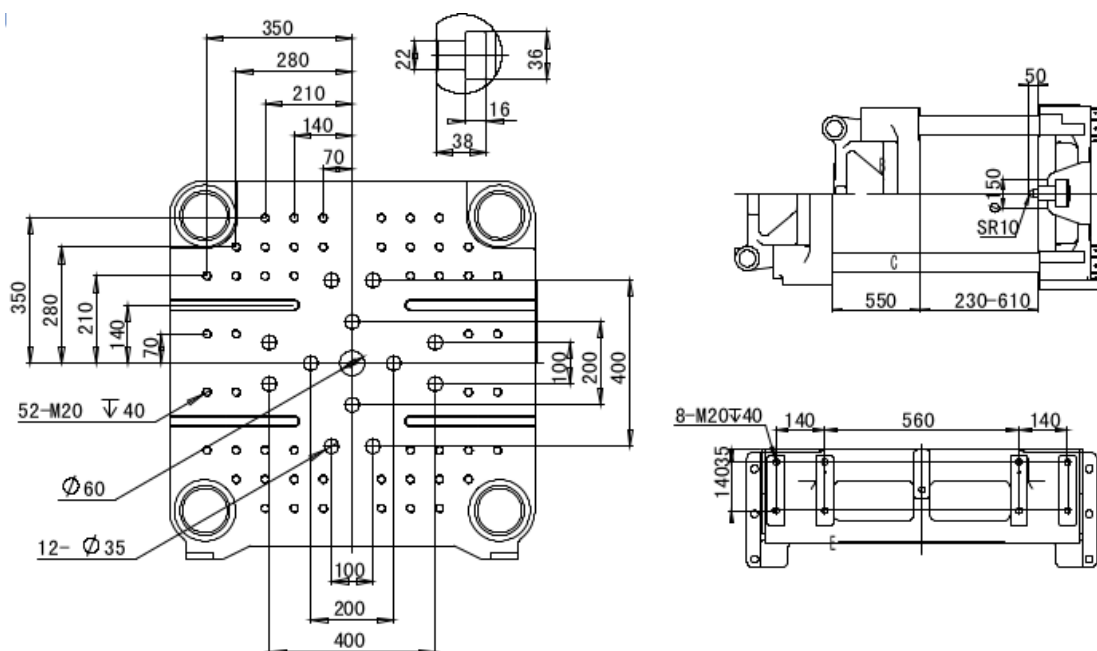
≈ 294 ton clamping force

Product description

The KII288-S8 opens the medium-large category with 2 880 kN clamping force. The increased ejector pin count (1+12 pins) and larger platen (905×905 mm) enable the use of complex products and multi-cavity molds.

Typical applications

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



Technical data

Parameter	Unit	Value
Clamping force	kN	2 880 (≈ 294 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	550
Platen size	mm	905×905
Space between tie bars	mm	610×610
Max. mold height	mm	610
Min. mold height	mm	230
Ejector stroke	mm	150
Ejector force	kN	77
Ejector arrangement		1+12
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	45.2
Heater power	kW	17.2
Oil tank capacity	l	340
Machine weight	t	8.5
Machine dimensions (L × W × H)	m	6.2×1.5×2.2

Injection unit – screw size variants

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)
Ø52	21	230	595	540	244	49	0–222
Ø60	21	173	792	719	324	62	0–222
Ø68	19	134	1 017	924	417	81	0–222

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII330-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 3300-1870

3 300 kN

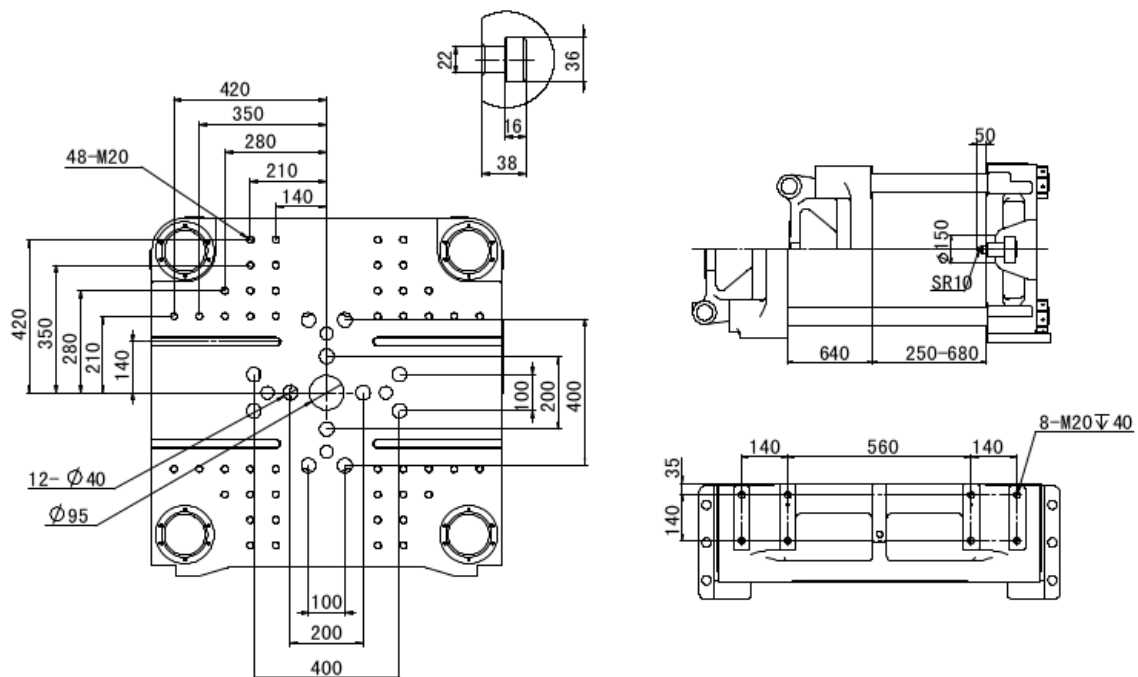
≈ 336 ton clamping force

Product description

The KII330-S8 is one of the most popular models in the series with 3 300 kN clamping force. With nearly 1.2 kg shot weight capacity and a large platen (980×980 mm), it accommodates the majority of molds for packaging, automotive and agricultural sectors.

Typical applications

- Automotive medium-size exterior and interior parts
- Large packaging products (5–20 liter buckets, crates)
- Agricultural irrigation system elements, fittings, tanks
- Logistics and industrial storage solutions
- Large household product category (garden tools, storage)



Technical data

Parameter	Unit	Value
Clamping force	kN	3 300 (≈ 336 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	640
Platen size	mm	980×980
Space between tie bars	mm	670×670
Max. mold height	mm	680
Min. mold height	mm	250
Ejector stroke	mm	180
Ejector force	kN	77
Ejector arrangement		1+12
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	55.2
Heater power	kW	20.8
Oil tank capacity	l	356
Machine weight	t	9.7
Machine dimensions (L × W × H)	m	6.6×1.8×2.2

Injection unit – screw size variants

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)
Ø60	21	213	877	780	329	55	0–208
Ø68	20.6	166	1 126	1 002	423	77	0–208
Ø75	19	136	1 370	1 219	514	89	0–208

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII400-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 4000-2500

4 000 kN

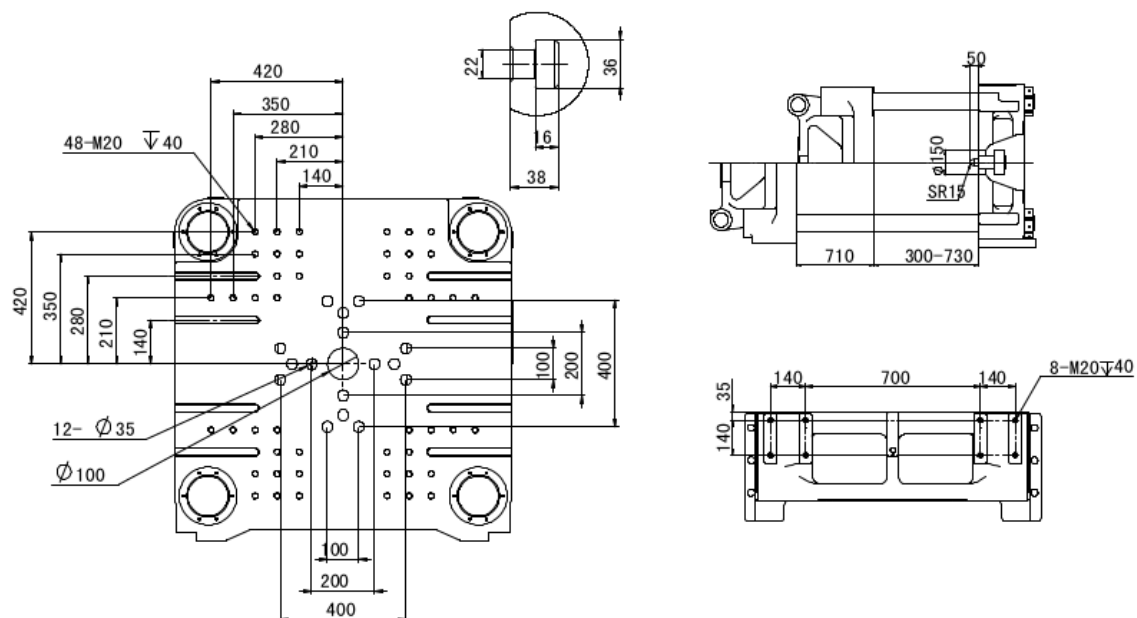
≈ 408 ton clamping force

Product description

The KII400-S8 enters the large category with 4 000 kN clamping force and four screw size options (Ø68–90 mm). Its shot weight range is 1 088–1 869 g. It meets the requirements of automotive, logistics and large-format packaging production.

Typical applications

- Automotive medium-large parts (bumper elements, door frames)
- Logistics and industrial crates, pallets, shipping trays
- Large packaging products (25–50 l containers)
- Agricultural large parts (transport boxes)
- Industrial technical parts (PA, PP-GF reinforced materials)



Technical data

Parameter	Unit	Value
Clamping force	kN	4 000 (≈ 408 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	710
Platen size	mm	1080×1060
Space between tie bars	mm	740×720
Max. mold height	mm	730
Min. mold height	mm	300
Ejector stroke	mm	210
Ejector force	kN	110
Ejector arrangement		1+12
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	63.6
Heater power	kW	27.6
Oil tank capacity	l	470
Machine weight	t	15
Machine dimensions (L × W × H)	m	7.9×1.9×2.2

Injection unit – screw size variants

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)
Ø68	22	208	1 198	1 088	431	73	0–200
Ø75	20	171	1 458	1 324	524	98	0–200
Ø83	19	140	1 786	1 590	642	109	0–200
Ø90	19	119	2 099	1 869	755	119	0–200

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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Servo-Hydraulic Precision Injection Molding Machine

Model: 5000-3600

5 000 kN

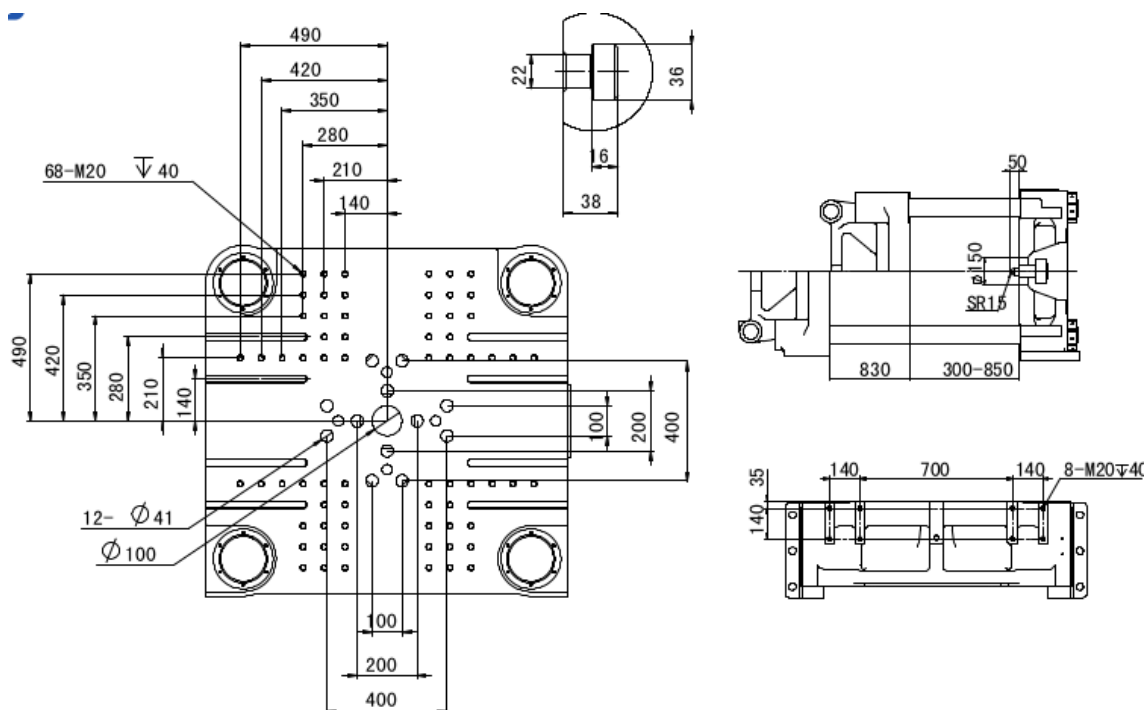
≈ 510 ton clamping force

Product description

The KII500-S8 is the key model of the 5 000 kN category with four screw size options (Ø75–100 mm) and nearly 2.73 kg maximum shot weight. The dual motor system (29.3 + 45.2 kW) delivers high performance and energy efficiency simultaneously.

Typical applications

- Automotive large exterior parts (bumpers, hood elements)
- Logistics crates and large transport pallet elements
- Industrial storage systems (large crates, containers)
- Agricultural large fittings and tank elements
- Large packaging containers and tanks



Technical data

Parameter	Unit	Value
Clamping force	kN	5 000 (≈ 510 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	830
Platen size	mm	1230×1190
Space between tie bars	mm	820×780
Max. mold height	mm	850
Min. mold height	mm	300
Ejector stroke	mm	220
Ejector force	kN	135
Ejector arrangement		1+12
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	29.3+45.2
Heater power	kW	33.2
Oil tank capacity	l	640
Machine weight	t	17
Machine dimensions (L × W × H)	m	8.7×2.1×2.2

Injection unit – screw size variants

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)
Ø75	21	210	1 723	1 534	502	84	0–188
Ø83	21.8	171	2 110	1 879	615	99	0–188
Ø90	20	146	2 481	2 209	723	109	0–188
Ø100	19	118	3 063	2 727	892	144	0–188

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII560-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 5600-4500

5 600 kN

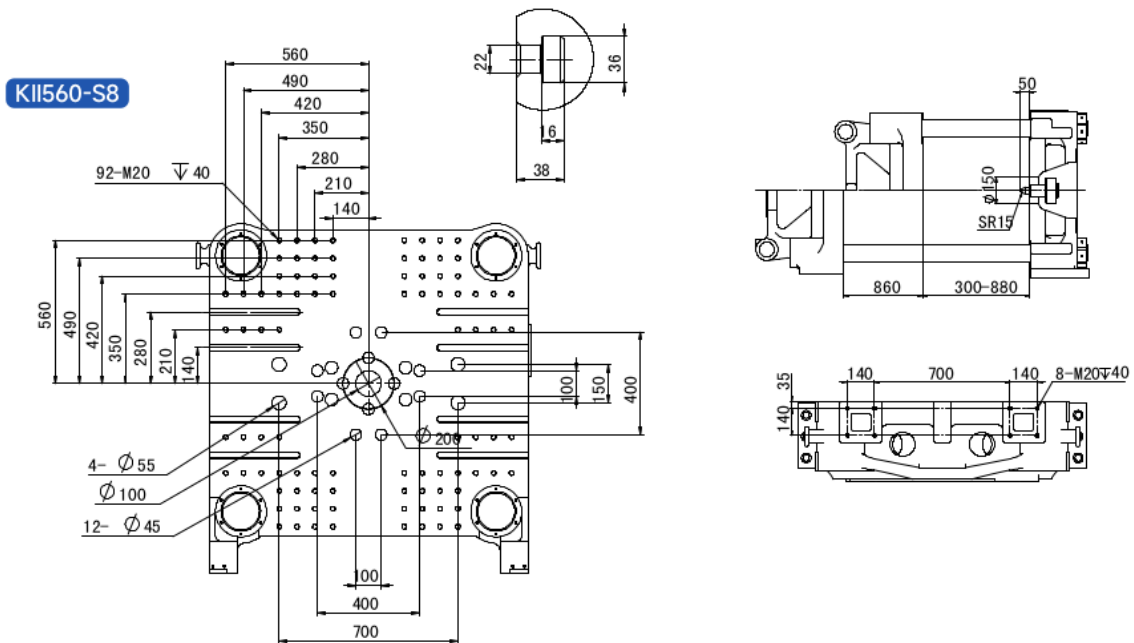
≈ 571 ton clamping force

Product description

The KII560-S8 is an outstanding model of the 5 600 kN category with a unique 1+16 pin ejector system. Its square platen (1230×1230 mm) is ideal for symmetric large multi-cavity molds.

Typical applications

- Automotive large structural parts (trunk interior, floor panel)
- Large logistics crates, euro-pallet elements
- Industrial containers and large storage parts
- Large agricultural injection-molded elements
- Large packaging containers (20 l+ tanks)



Technical data

Parameter	Unit	Value
Clamping force	kN	5 600 (≈ 571 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	860
Platen size	mm	1230×1230
Space between tie bars	mm	860×860
Max. mold height	mm	880
Min. mold height	mm	330
Ejector stroke	mm	240
Ejector force	kN	135
Ejector arrangement		1+16
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	63.6
Heater power	kW	33.2
Oil tank capacity	l	700
Machine weight	t	23
Machine dimensions (L × W × H)	m	9.2×2.3×2.1

Injection unit – screw size variants

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)
Ø75	21	231	1 944	1 769	418	84	0–172
Ø83	21.8	188	2 381	2 166	512	99	0–172
Ø90	20	160	2 799	2 547	602	109	0–172
Ø100	19	130	3 456	3 145	744	144	0–172

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII680-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 6800-5500

6 800 kN

≈ 693 ton clamping force

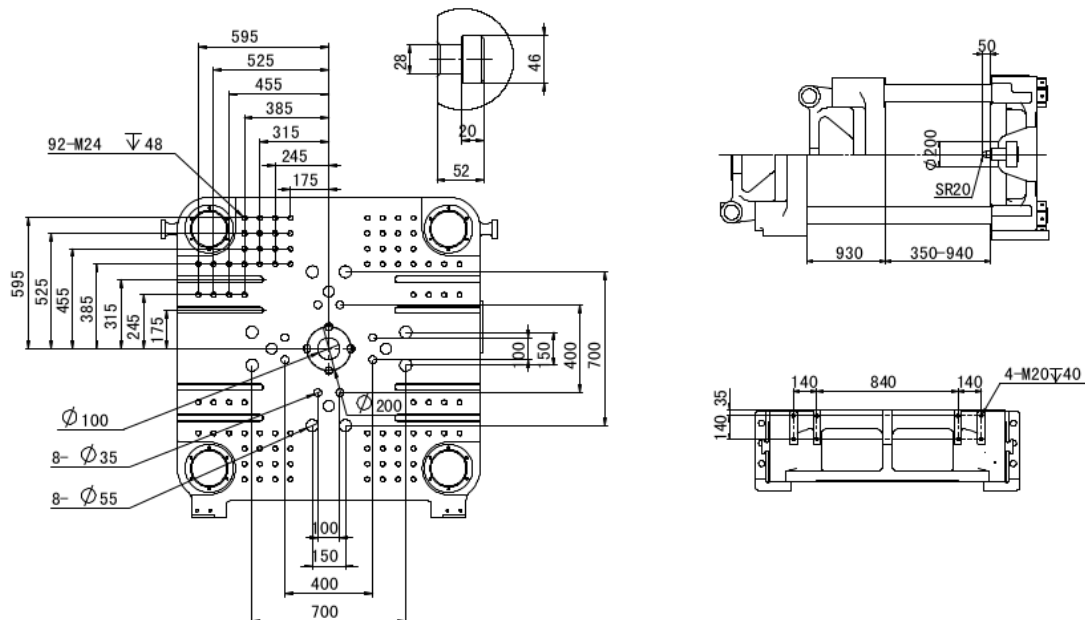
Product description

The KII680-S8 is the entry-level model of the large category with 6 800 kN clamping force and 1+20 pin ejector system. With four screw size options and over 4 kg maximum shot weight, it meets the most demanding industrial tasks.

Typical applications

- Automotive large body parts and structural components
- Large industrial crates, pallet systems, containers
- Heavy logistics components (euro-pallets, transport equipment)
- Construction plastic parts (drainage elements)
- Agricultural large equipment elements and tanks

KII680-S8



Technical data

Parameter	Unit	Value
Clamping force	kN	6 800 (≈ 693 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	930
Platen size	mm	1400×1400
Space between tie bars	mm	940×940
Max. mold height	mm	940
Min. mold height	mm	350
Ejector stroke	mm	280
Ejector force	kN	184
Ejector arrangement		1+20
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	37+37
Heater power	kW	39.3
Oil tank capacity	l	770
Machine weight	t	26
Machine dimensions (L × W × H)	m	9.6×2.4×2.1

Injection unit – screw size variants

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)
Ø85	23.5	208	2 667	2 375	566	97	0–144
Ø90	22.4	186	2 990	2 663	635	113	0–144
Ø100	20	150	3 691	3 287	784	146	0–144
Ø110	18.5	124	4 464	4 062	948	170	0–144

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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Servo-Hydraulic Precision Injection Molding Machine

Model: 8500-7400

8 500 kN

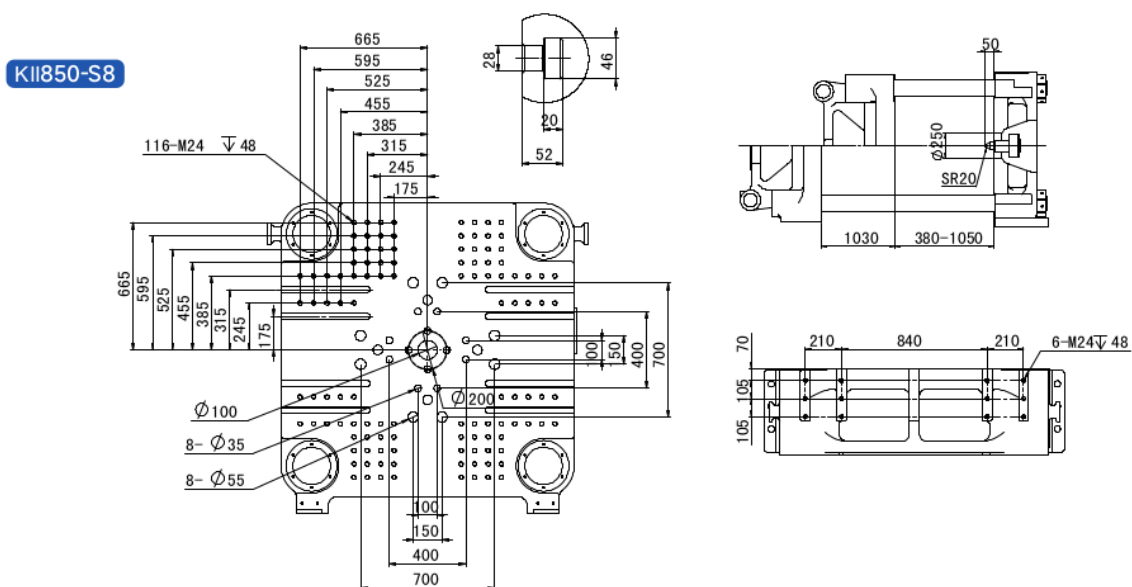
≈ 866 ton clamping force

Product description

The KII850-S8 is the flagship of the 850-ton category with 8 500 kN clamping force. Its maximum shot weight reaches 5 094 g. The 1550×1550 mm platen and 1030 mm opening stroke offer one of the largest accommodation 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 covering elements for agricultural machinery
- Large industrial tanks, containers, and storage systems



Technical data

Parameter	Unit	Value
Clamping force	kN	8 500 (≈ 866 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	1030
Platen size	mm	1550×1550
Space between tie bars	mm	1040×1040
Max. mold height	mm	1050
Min. mold height	mm	380
Ejector stroke	mm	280
Ejector force	kN	184
Ejector arrangement		1+20
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	89.5
Heater power	kW	41.6
Oil tank capacity	l	770
Machine weight	t	35
Machine dimensions (L × W × H)	m	10.4×2.4×2.2

Injection unit – screw size variants

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)
Ø90	23.5	235	3 149	2 866	596	118	0–159
Ø100	21	190	3 888	3 538	736	146	0–159
Ø110	20	157	4 704	4 281	882	176	0–159
Ø120	18.3	132	5 598	5 094	1 060	209	0–159

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII1000-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 10000-9530

10 000 kN

≈ 1019 ton clamping force

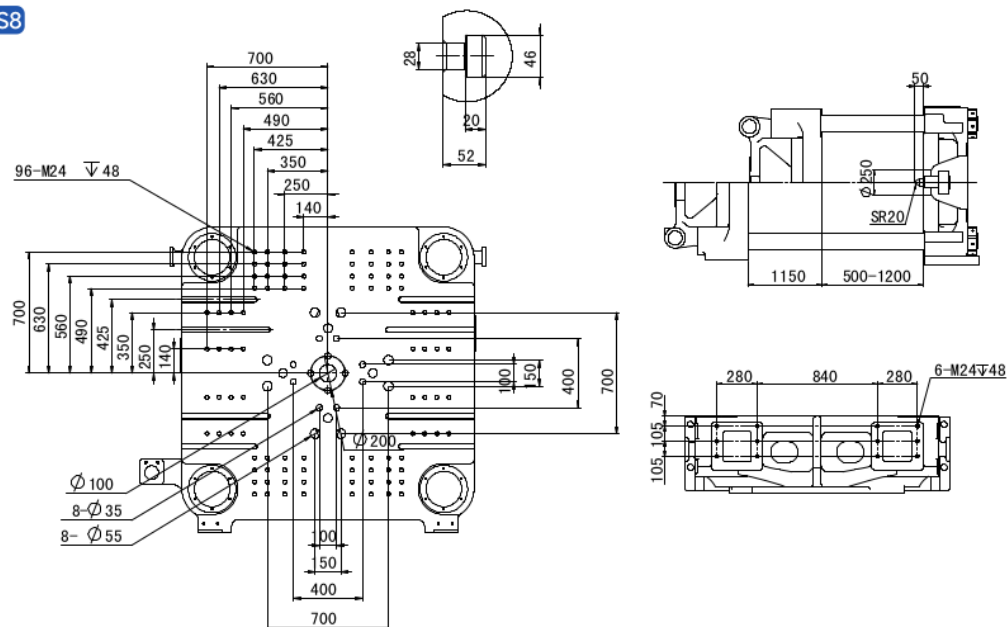
Product description

The KII1000-S8 is the reference model of the thousand-ton category with 10 000 kN clamping force. With nearly 6.65 kg maximum shot weight and a 1690×1690 mm platen, it offers one of the largest working areas in the series.

Typical applications

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

KII1000-S8



Technical data

Parameter	Unit	Value
Clamping force	kN	10 000 (≈ 1019 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	1150
Platen size	mm	1690×1690
Space between tie bars	mm	1160×1160
Max. mold height	mm	1200
Min. mold height	mm	500
Ejector stroke	mm	350
Ejector force	kN	290
Ejector arrangement		1+20
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	116.1
Heater power	kW	49.5
Oil tank capacity	l	945
Machine weight	t	50
Machine dimensions (L × W × H)	m	11.4×2.7×2.5

Injection unit – screw size variants

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)
Ø100	23	221	4 320	3 931	724	126	0–127
Ø110	21	182	5 227	4 756	876	153	0–127
Ø120	19.2	153	6 220	5 661	1 043	182	0–127
Ø130	18.5	131	7 300	6 643	1 224	222	0–127

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII1200-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 12000-9530

12 000 kN

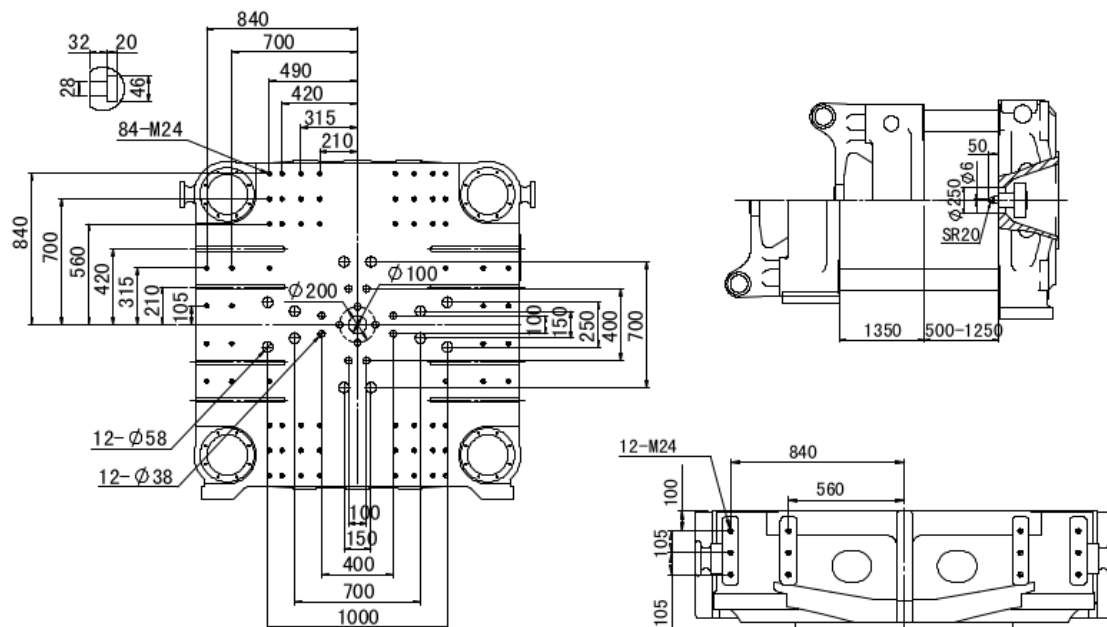
≈ 1223 ton clamping force

Product description

The KII1200-S8 is the higher-clamping-force variant of the KII1000 with 12 000 kN clamping force. The expanded 1800×1800 mm platen and 1+24 pin ejector system are particularly suitable for accommodating complex, large-format products.

Typical applications

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



Technical data

Parameter	Unit	Value
Clamping force	kN	12 000 (≈ 1223 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	1310
Platen size	mm	1800×1800
Space between tie bars	mm	1250×1250
Max. mold height	mm	1250
Min. mold height	mm	500
Ejector stroke	mm	320
Ejector force	kN	215
Ejector arrangement		1+24
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	116.1
Heater power	kW	49.5
Oil tank capacity	l	945
Machine weight	t	56
Machine dimensions (L × W × H)	m	11.6×2.91×2.5

Injection unit – screw size variants

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)
Ø100	23	221	4 320	3 931	724	126	0–127
Ø110	21	182	5 227	4 756	876	153	0–127
Ø120	19.2	153	6 220	5 661	1 043	182	0–127
Ø130	18.5	131	7 300	6 643	1 224	222	0–127

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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PowerJet KII1380-S8

Servo-Hydraulic Precision Injection Molding Machine
Model: 13800-12000

13 800 kN

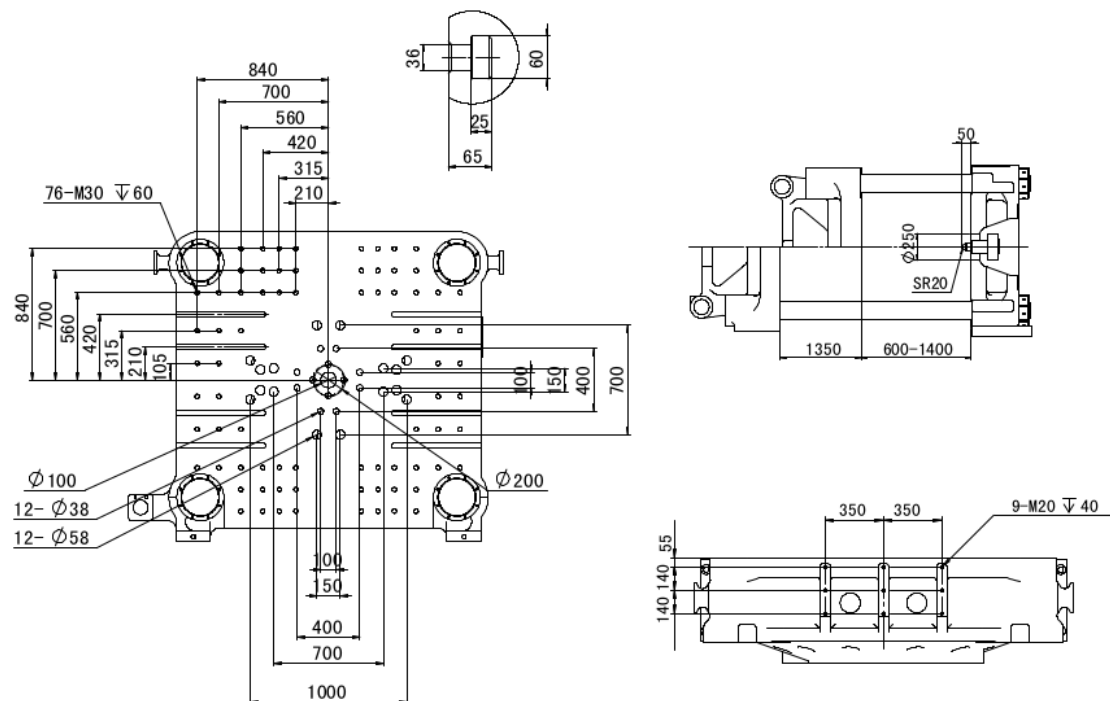
≈ 1407 ton clamping force

Product description

The KII1380-S8 is the flagship of the PowerJet KII series with 13 800 kN clamping force. The nearly 8.7 kg maximum shot weight, the massive 2000×1950 mm platen, and the 1+24 pin ejector system represent the absolute peak of the series.

Typical applications

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



Technical data

Parameter	Unit	Value
Clamping force	kN	13 800 (≈ 1407 ton)
Clamping unit type		Center-press toggle (Toggle)
Mold opening stroke	mm	1350
Platen size	mm	2000×1950
Space between tie bars	mm	1420×1280
Max. mold height	mm	1400
Min. mold height	mm	600
Ejector stroke	mm	380
Ejector force	kN	300
Ejector arrangement		1+24
Injection rate (standard)		> 100 mm/s
Drive system		Servo-hydraulic
Controller		KEBA 12" touchscreen 100 µs CPU 990 mold memory
Pump motor power	kW	137.2
Heater power	kW	84.2
Oil tank capacity	l	1051
Machine weight	t	70
Machine dimensions (L × W × H)	m	13×3×3

Injection unit – screw size variants

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)
Ø110	21	204	5 892	5 259	892	123	0–102
Ø120	21	171	7 012	6 381	1 061	147	0–102
Ø130	19.3	146	8 229	7 488	1 163	172	0–102
Ø140	18.9	127	9 544	8 685	1 349	208	0–102

Each row represents one screw diameter option. Different materials and shot weights can be accommodated by changing the screw.
Source: manufacturer parameter table (KII series, 2025.06).

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