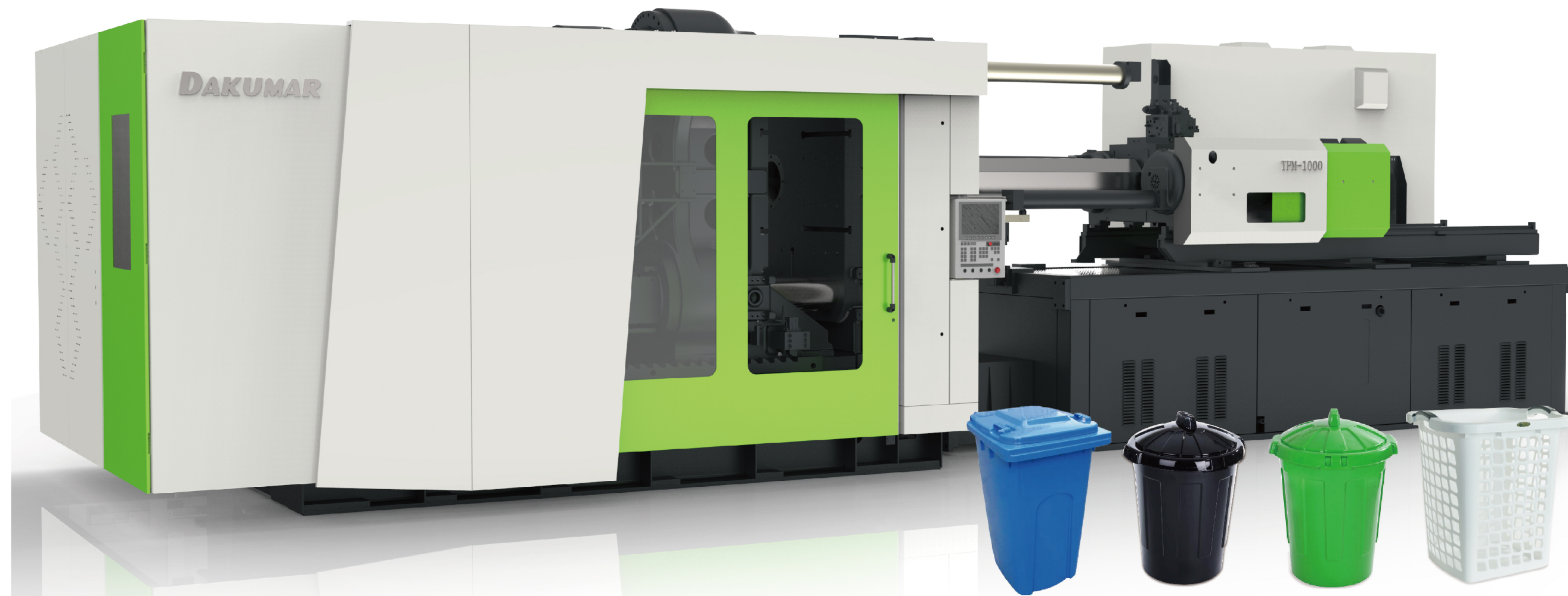


DKM600-4000T Two Platen Injection Molding Machine

DKM TP series two platen injection machine is developed by our technical team from Europe. The machine is designed for large size parts like industrial dust-bins, auto parts, logistic container and large pallets. Two platen machine has the advantage of bigger mould opening stroke capacity and space for robot, 30% less floor space. DKM Two platen machines were designed with higher molding speed and more precision injection.



HIGH STABILITY

- Enhanced strength and rigidity of mechanical parts, with the help of finite element analysis.
- H type clamping plate for high precision.
- Double sliding structure for moving and fixed plate to make the parallelism even for large size mould.
- Moving plate guide by machine bottom and slide to eliminate any titling torque and increase mould bearing capacity.

HIGH FLEXIBILITY

- Inversion type ejection system, the ejection stroke could be set up as per particular production requirement.

HIGH PRECISION

- Fully closed hydraulic system for less leakage was adopted for less leakage and better pressure holding.
- Operation with locknut for rapid and accurate reaction.
- Four hydraulic cylinders installed on moving platen to create clamping force fast with balanced pressure.
- Pressure sensor used to monitor the clamping force.

HIGH SAFETY

- European brand servo system for low energy consumption
- European CE standard for safe operation

HIGH MOULD THICKNESS CAPACITY

- More than 50% opening stroke, mould thickness capacity etc.
- The operation, installation and production are full of humanization.

HIGH ENERGY SAVING

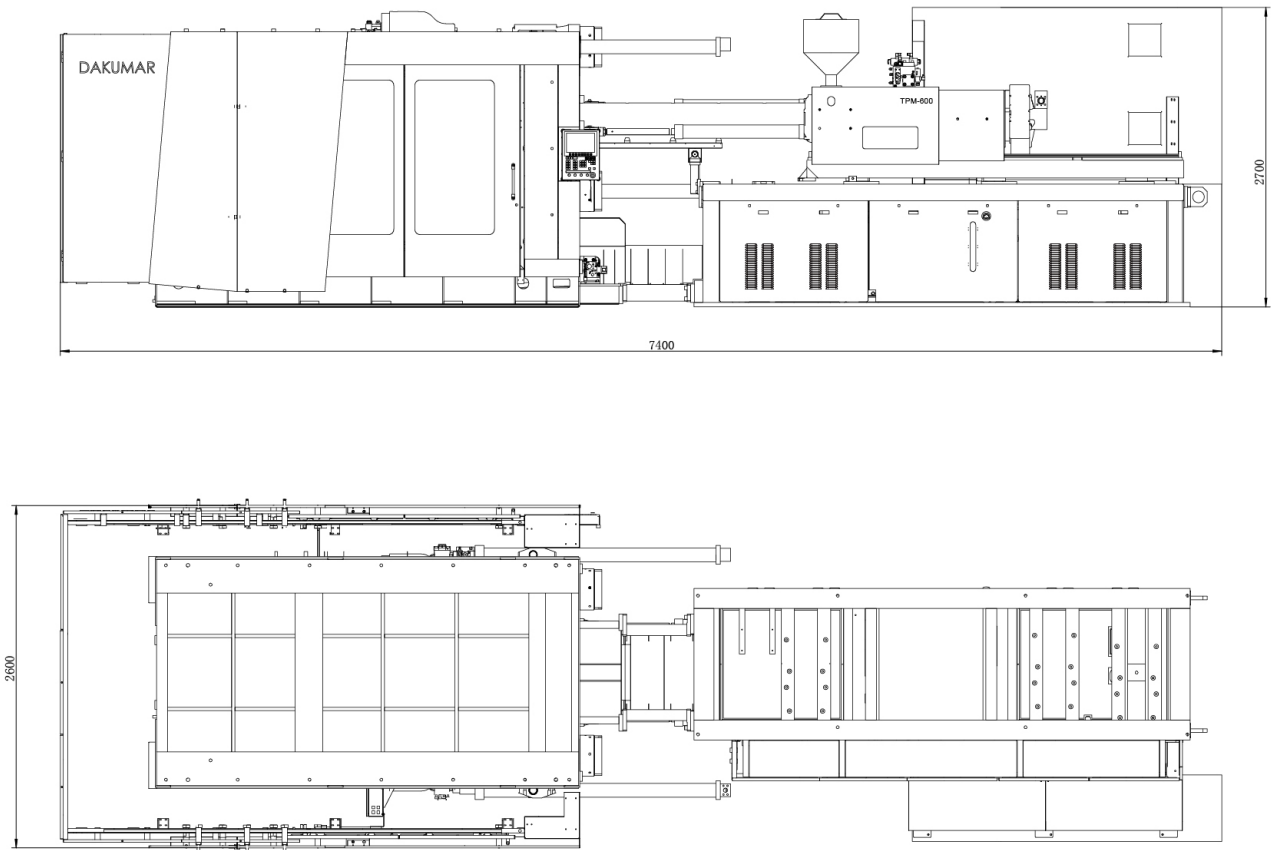
- World Famous brand servo system for low energy consumption.
- Machine size is 30% smaller than three plate machine.

HIGH RELIABILITY

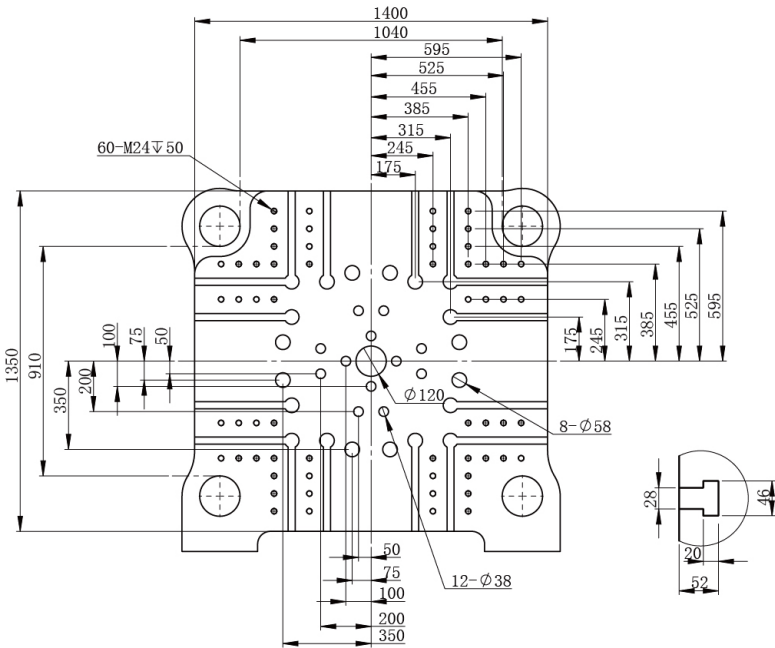
- Tie bars are fixed to the stationary plate for convenient installation for large size mold.
- Tie bar nut and clamping piston are suspension structure to fully protect tie bar in band-type brake unit, this greatly increase machine life with high reliability and good performance.

TWO PLATEN INJECTION MOLDING MACHINE		DKM-600TP			
SCREW TYPE		A	B	C	D
INJECTION UNIT					
Screw Diameter	mm	85	90	95	100
Screw L/D Ratio	L/D	22.7	21.4	20.3	19.3
Theoretical Shot Volume	cm³	2439	2734	3046	3375
Injection Weight (PS)	gram	1907	2138	2382	2640
Injection Pressure	Mpa	232	207	186	168
Screw Speed	rpm	145			
Screw Stroke	mm	430			
CLAMPING UNIT					
Clamp Force	kN	6000			
Mold opening stroke	mm	1350-800			
Distance Between Tie bars	mm	1040×910			
Max. Mold Height	mm	950			
Min. Mold Height	mm	400			
Max.daylight	mm	1750			
Max. mold weight	t	9			
Ejector Stroke	mm	250			
Ejector Force	kN	110			
OTHERS					
Max. Pump Pressure	Mpa	22			
Pump Motor Power	kW	69			
Heater Power	kW	43	43	43	43
Machine Dimension (LxWxH)	mm	7400×2600×2700			
Machine Weight	tons	27			
Oil Tank Capacity	liter	770			

DIMENSIONS

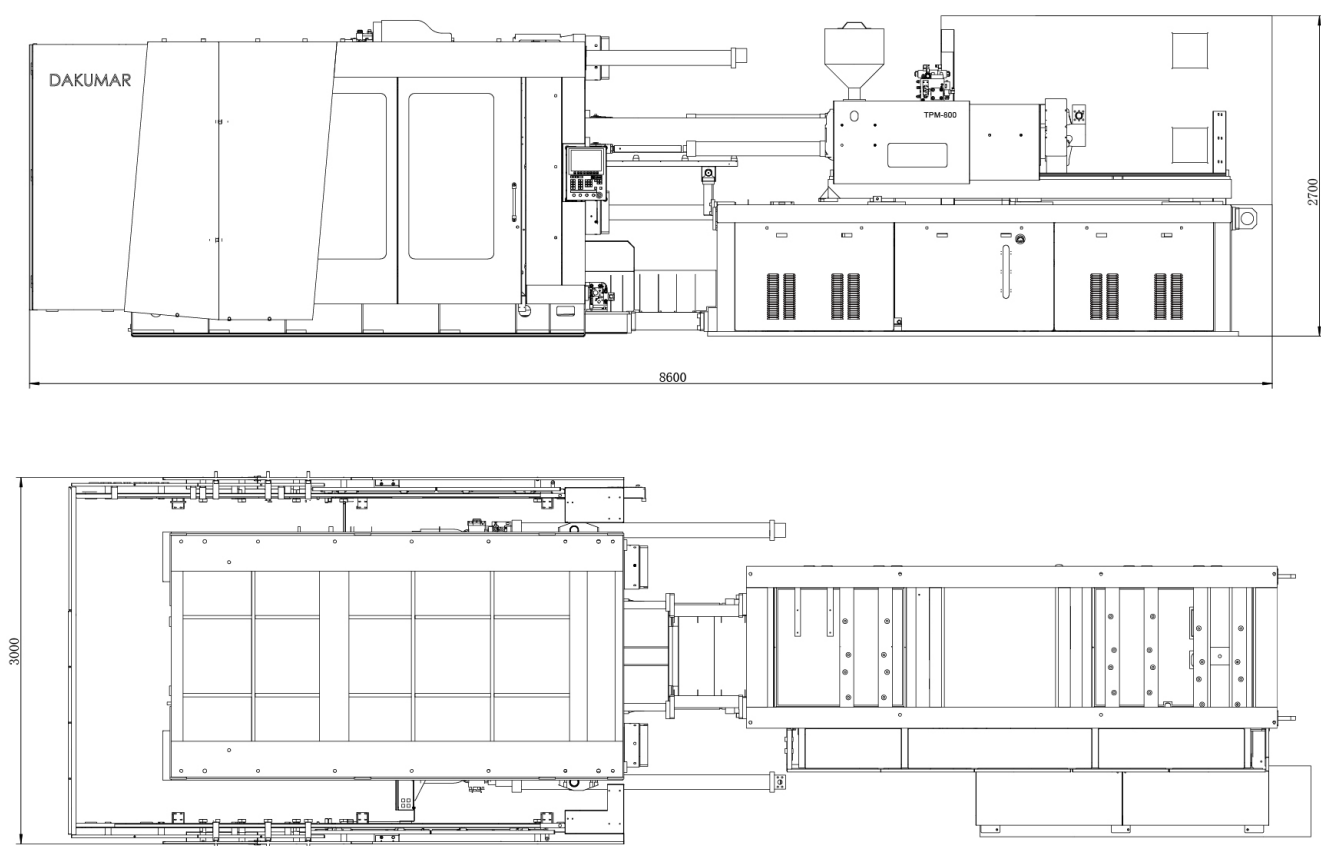


MOLD PLATEN DRAWING

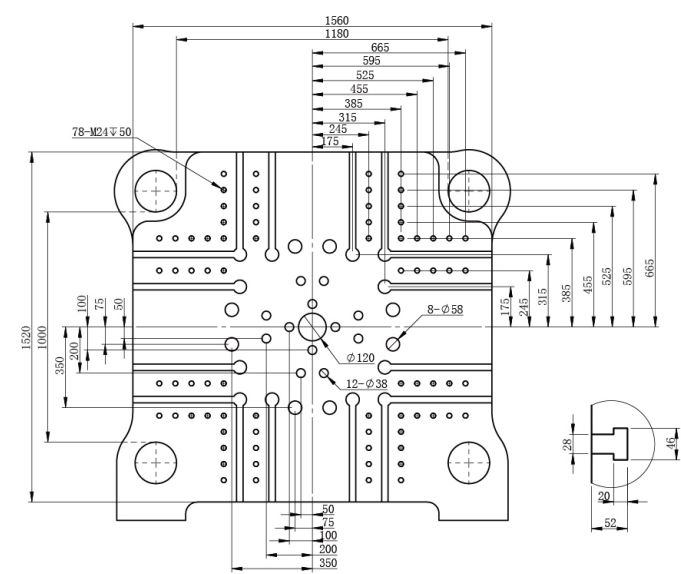


TWO PLATEN INJECTION MOLDING MACHINE		DKM-800TP			
SCREW TYPE		A	B	C	D
INJECTION UNIT					
Screw Diameter	mm	90	95	100	110
Screw L/D Ratio	L/D	23.5	22	20.8	18.7
Theoretical Shot Volume	cm³	2975	3315	3673	4445
Injection Weight (PS)	gram	2327	2592	2873	3476
Injection Pressure	Mpa	207	186	168	139
Screw Speed	rpm	125			
Screw Stroke	mm	468			
CLAMPING UNIT					
Clamp Force	kN	8000			
Mold opening stroke	mm	1400-900			
Distance Between Tie bars	mm	1180×1000			
Max. Mold Height	mm	950			
Min. Mold Height	mm	450			
Max.daylight	mm	1850			
Max. mold weight	t	11			
Ejector Stroke	mm	300			
Ejector Force	kN	195			
OTHERS					
Max. Pump Pressure	Mpa	22			
Pump Motor Power	kW	75			
Heater Power	kW	50	50	50	50
Machine Dimension (LxWxH)	mm	8600×3000×2700			
Machine Weight	tons	30			
Oil Tank Capacity	liter	850			

DIMENSIONS

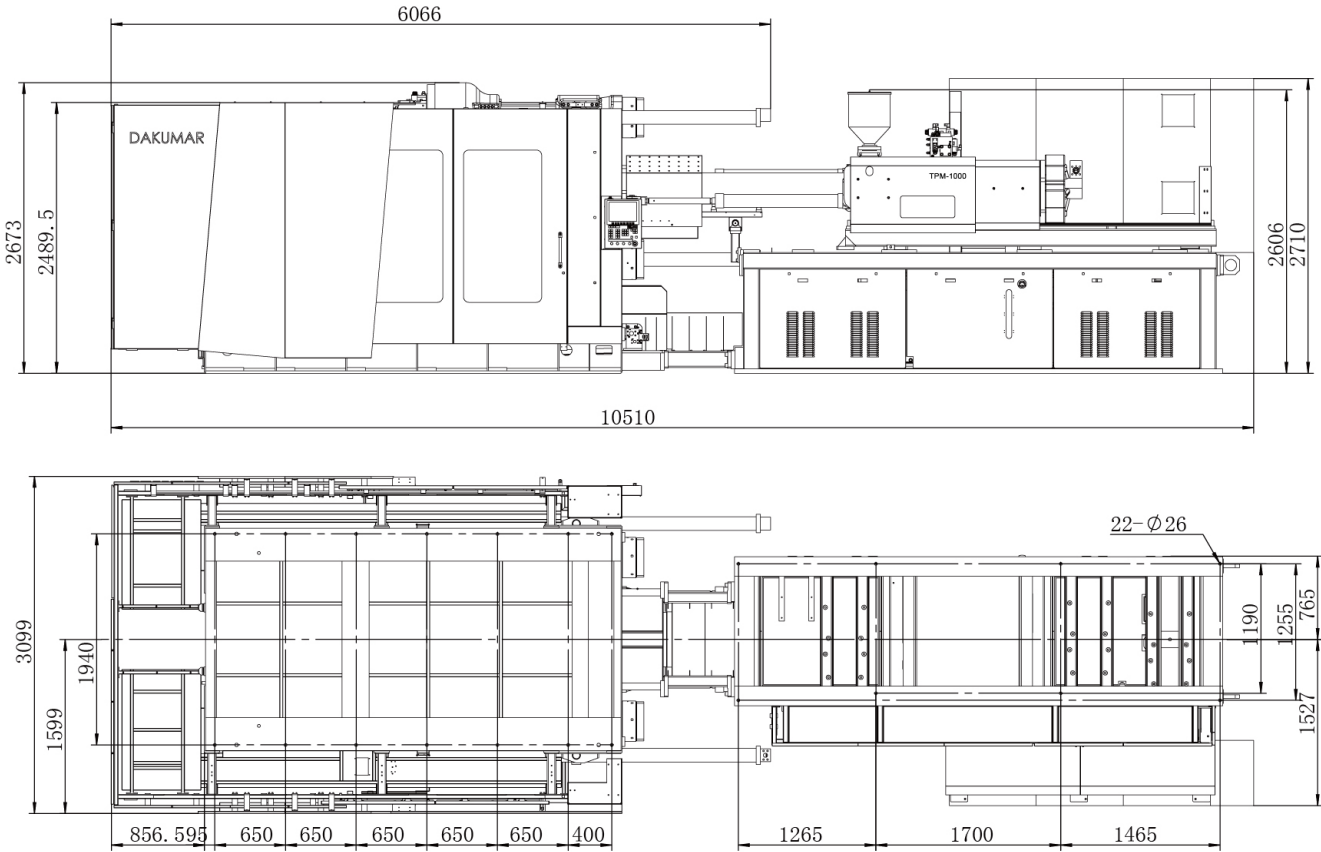


MOLD PLATEN DRAWING

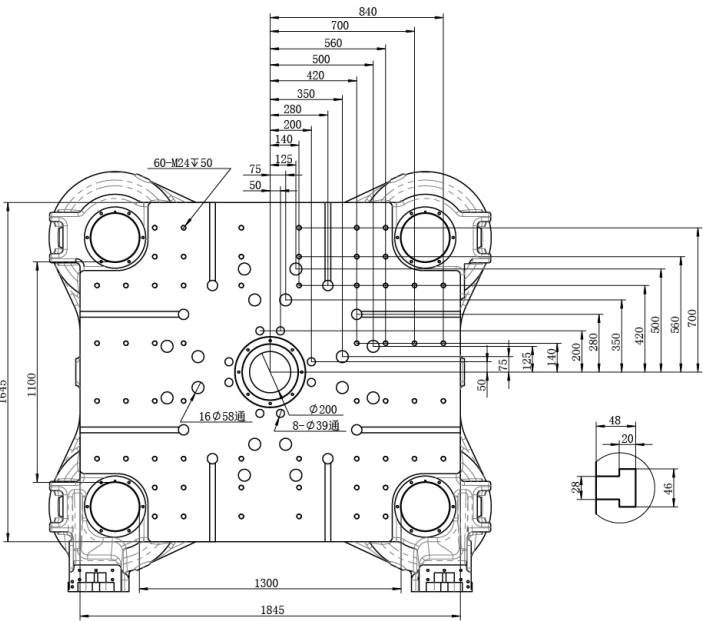


TWO PLATEN INJECTION MOLDING MACHINE		DKM-1000TP		
SCREW TYPE		A	B	C
INJECTION UNIT				
Screw Diameter	mm	100	120	135
Screw L/D Ratio	L/D	25.3	21.1	18.7
Theoretical Shot Volume	cm³	5102	7347	9299
Injection Weight (PS)	gram	3990	5745	7272
Injection Pressure	Mpa	270	188	148
Screw Speed	rpm	125		
Screw Stroke	mm	650		
CLAMPING UNIT				
Clamp Force	kN	10000		
Mold opening stroke	mm	1920-1180		
Distance Between Tie bars	mm	1300×1100		
Max. Mold Height	mm	1240		
Min. Mold Height	mm	500		
Max.daylight	mm	2420		
Max. mold weight	t	16		
Ejector Stroke	mm	300		
Ejector Force	kN	210		
OTHERS				
Max. Pump Pressure	Mpa	22		
Pump Motor Power	kW	115		
Heater Power	kW	55	55	85
Machine Dimension (LxWxH)	mm	10000×3100×2800		
Machine Weight	tons	65		
Oil Tank Capacity	liter	900		

DIMENSIONS

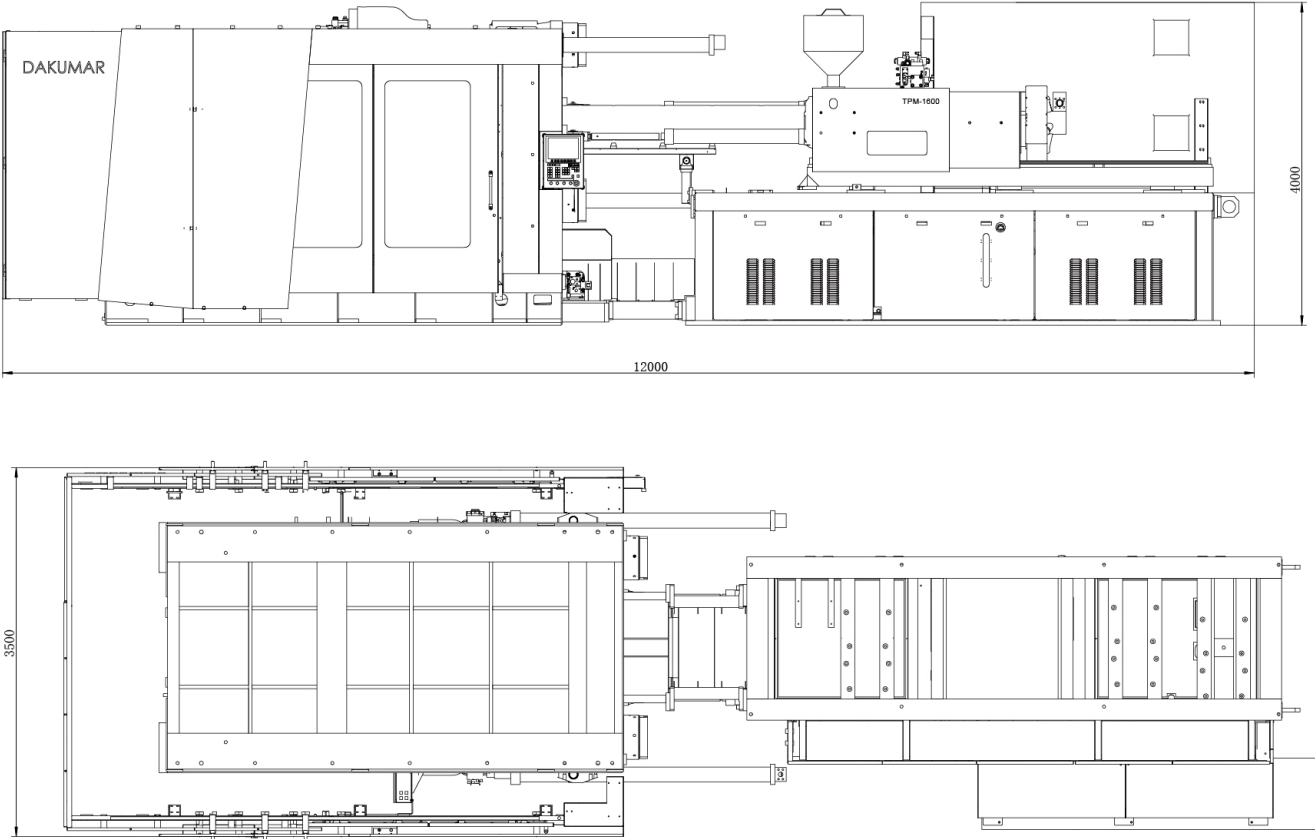


MOLD PLATEN DRAWING

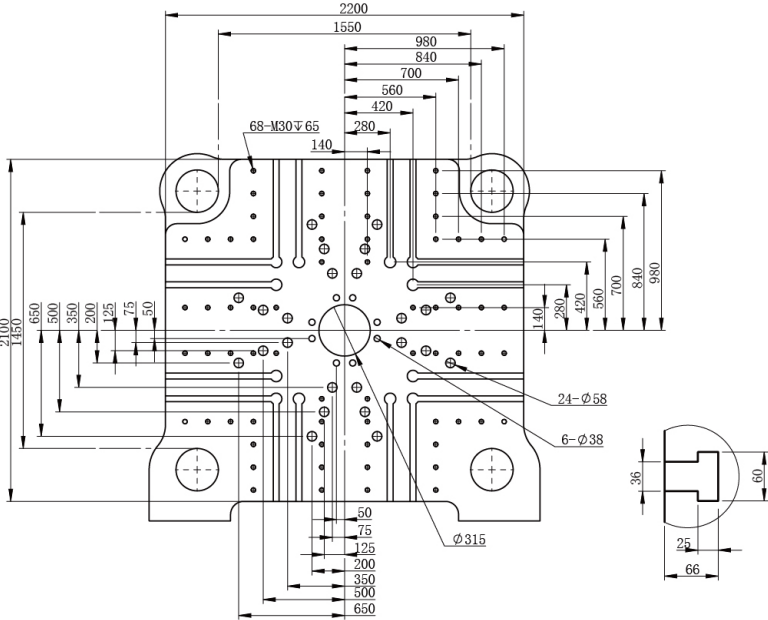


TWO PLATEN INJECTION MOLDING MACHINE		DKM-1600TP			
SCREW TYPE		A	B	C	D
INJECTION UNIT					
Screw Diameter	mm	120	130	140	150
Screw L/D Ratio	L/D	24.3	22.3	20.6	19
Theoretical Shot Volume	cm³	7912	9286	10770	12363
Injection Weight (PS)	gram	6187	7262	8422	9668
Injection Pressure	Mpa	192	164	141	123
Screw Speed	rpm	95			
Screw Stroke	mm	700			
CLAMPING UNIT					
Clamp Force	kN	16000			
Mold opening stroke	mm	2550-1700			
Distance Between Tie bars	mm	1550×1450			
Max. Mold Height	mm	1550			
Min. Mold Height	mm	700			
Max.daylight	mm	3250			
Max. mold weight	t	33			
Ejector Stroke	mm	400			
Ejector Force	kN	330			
OTHERS					
Max. Pump Pressure	Mpa	22			
Pump Motor Power	kW	158			
Heater Power	kW	102	102	102	102
Machine Dimension (LxWxH)	mm	12000×3500×4000			
Machine Weight	tons	88			
Oil Tank Capacity	liter	2000			

DIMENSIONS

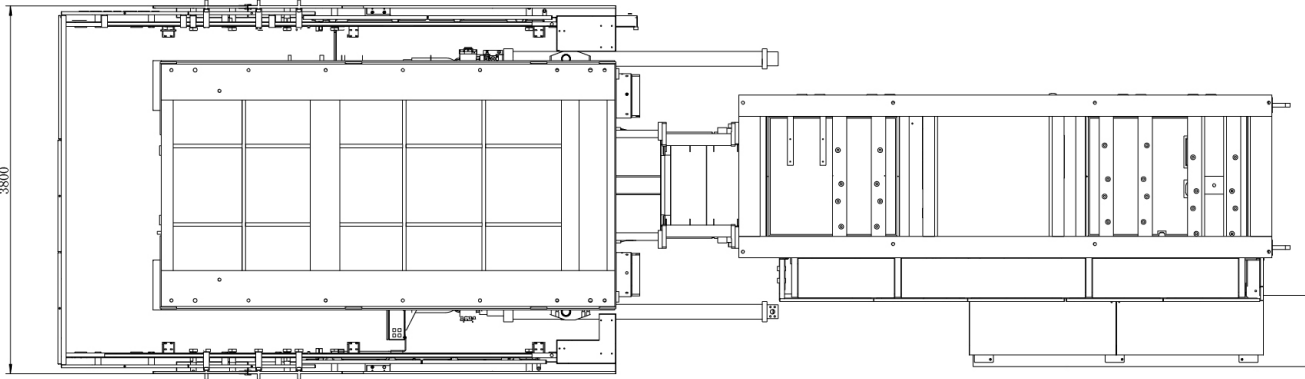
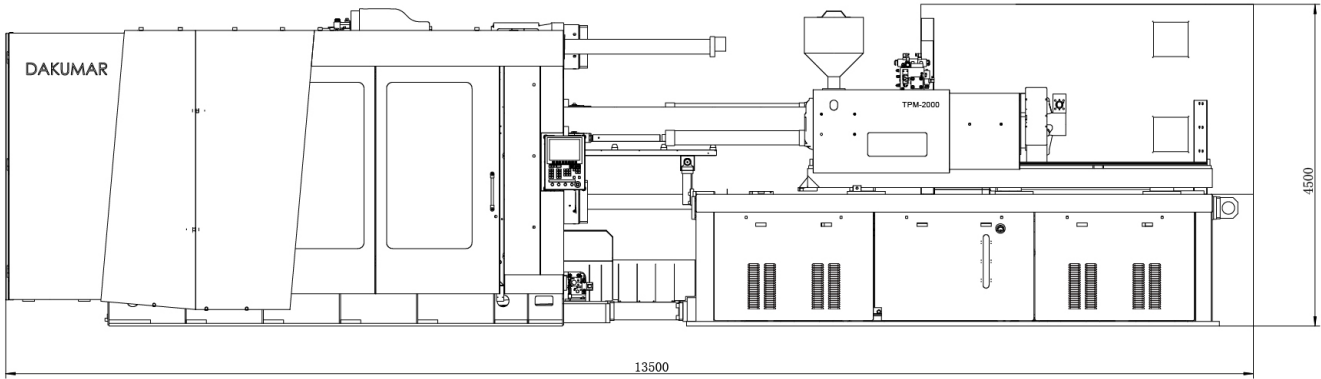


MOLD PLATEN DRAWING

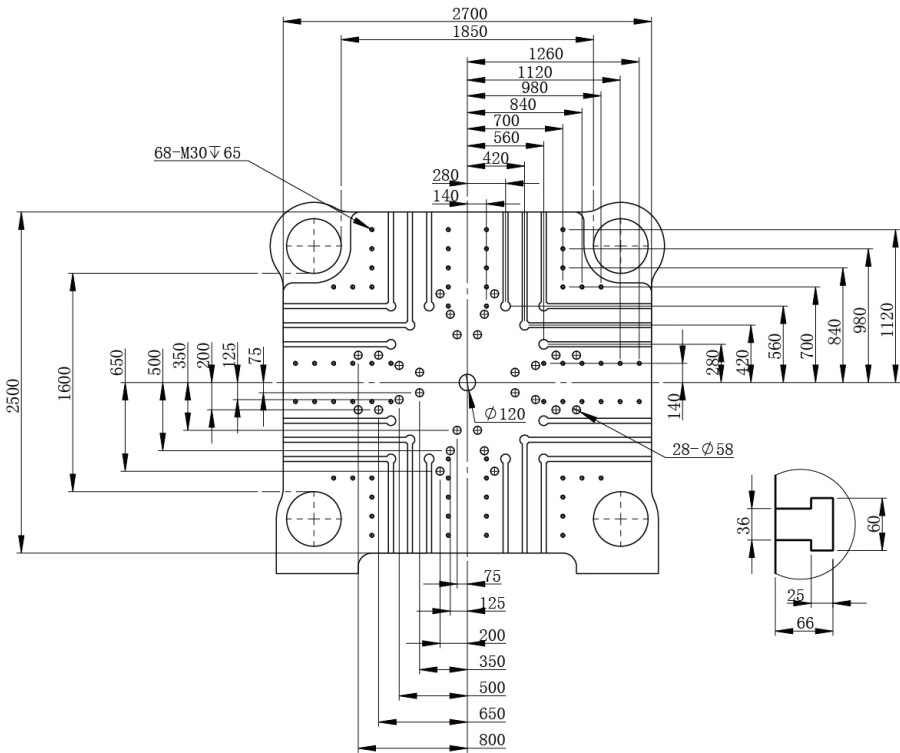


TWO PLATEN INJECTION MOLDING MACHINE		DKM-2000TP			
SCREW TYPE		A	B	C	D
INJECTION UNIT					
Screw Diameter	mm	120	130	140	150
Screw L/D Ratio	L/D	24.3	22.3	20.6	19
Theoretical Shot Volume	cm³	7912	9286	10770	12363
Injection Weight (PS)	gram	6187	7262	8422	9668
Injection Pressure	Mpa	192	164	141	123
Screw Speed	rpm	95			
Screw Stroke	mm	700			
CLAMPING UNIT					
Clamp Force	kN	20000			
Mold opening stroke	mm	2700-1800			
Distance Between Tie bars	mm	1850×1600			
Max. Mold Height	mm	1700			
Min. Mold Height	mm	800			
Max.daylight	mm	3500			
Max. mold weight	t	50			
Ejector Stroke	mm	450			
Ejector Force	kN	360			
OTHERS					
Max. Pump Pressure	Mpa	22			
Pump Motor Power	kW	160			
Heater Power	kW	90			
Machine Dimension (LxWxH)	mm	13500×3800×4500			
Machine Weight	tons	100			
Oil Tank Capacity	liter	3000			

DIMENSIONS

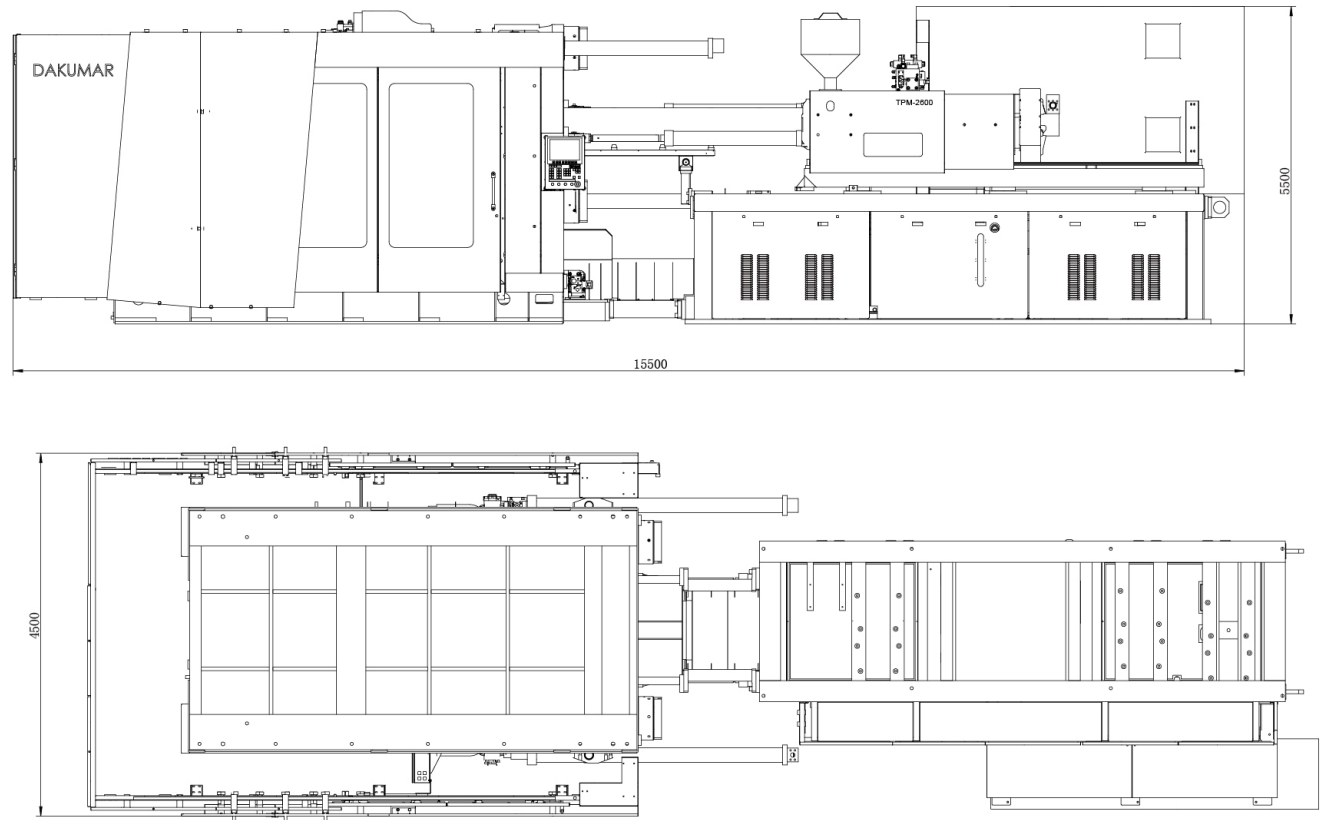


MOLD PLATEN DRAWING

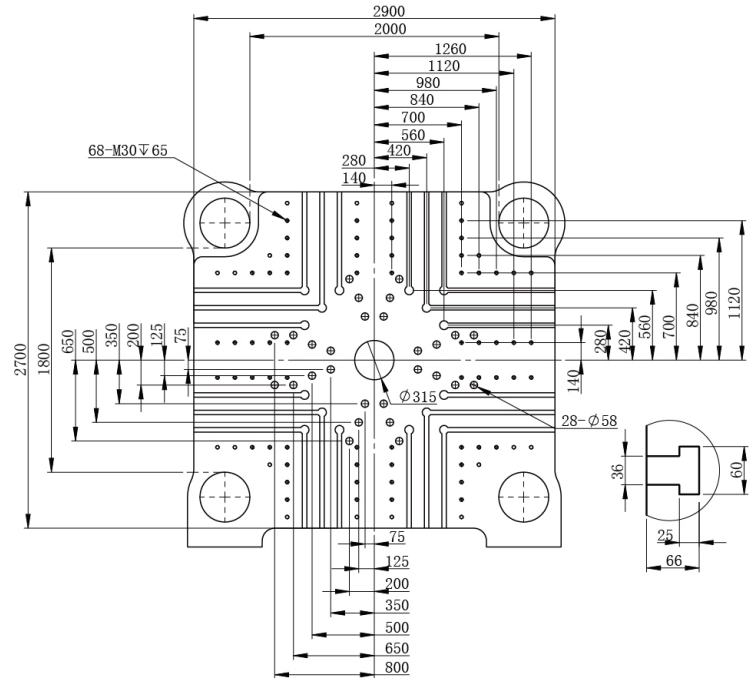


TWO PLATEN INJECTION MOLDING MACHINE		DKM-2600TP		
SCREW TYPE		A	B	C
INJECTION UNIT				
Screw Diameter	mm	160	180	200
Screw L/D Ratio	L/D	23	20.4	18.4
Theoretical Shot Volume	cm³	15281	19340	23876
Injection Weight (PS)	gram	13753	17406	21488
Injection Pressure	Mpa	208	165	188
Screw Speed	rpm	60		
Screw Stroke	mm	760		
CLAMPING UNIT				
Clamp Force	kN	26000		
Mold opening stroke	mm	2900-1900		
Distance Between Tie bars	mm	2000×1800		
Max. Mold Height	mm	1900		
Min. Mold Height	mm	900		
Max.daylight	mm	3800		
Max. mold weight	t	66		
Ejector Stroke	mm	500		
Ejector Force	kN	450		
OTHERS				
Max. Pump Pressure	Mpa	22		
Pump Motor Power	kW	228		
Heater Power	kW	172		
Machine Dimension (LxWxH)	mm	15500×4500×5500		
Machine Weight	tons	165		
Oil Tank Capacity	liter	3600		

DIMENSIONS

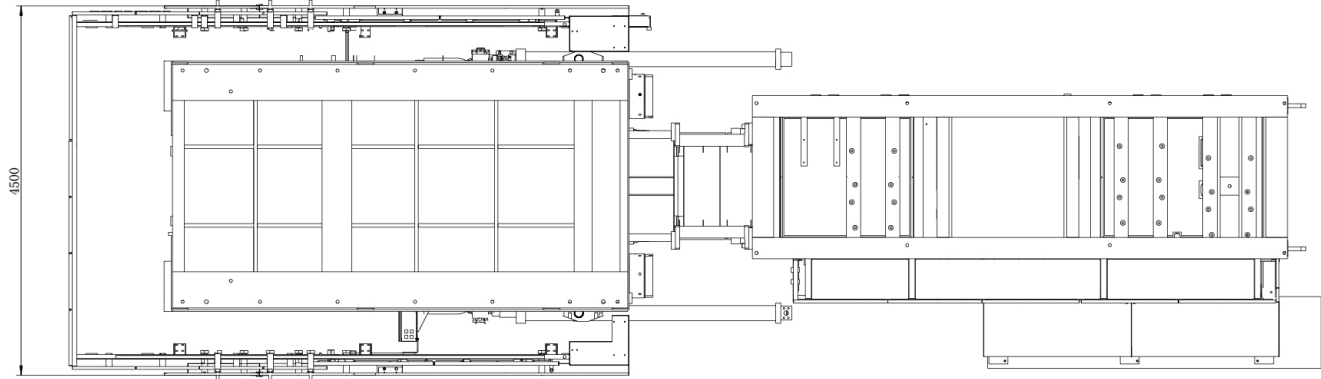
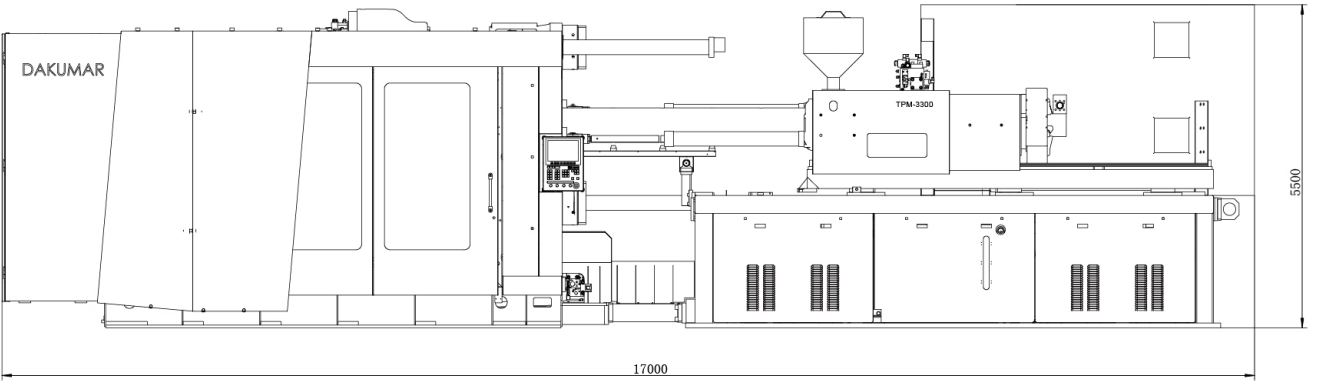


MOLD PLATEN DRAWING

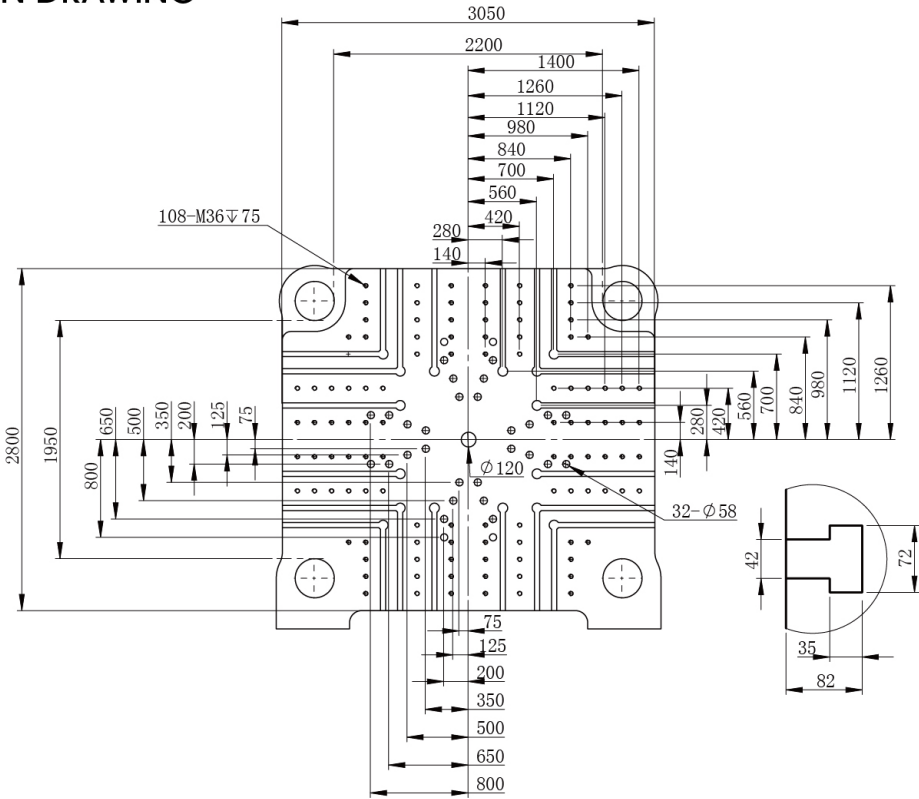


TWO PLATEN INJECTION MOLDING MACHINE		DKM-3300TP		
SCREW TYPE		A	B	C
INJECTION UNIT				
Screw Diameter	mm	180	200	220
Screw L/D Ratio	L/D	24.4	22	20
Theoretical Shot Volume	cm³	27977	34540	41793
Injection Weight (PS)	gram	25180	31086	37614
Injection Pressure	Mpa	194	157	130
Screw Speed	rpm	55		
Screw Stroke	mm	1100		
CLAMPING UNIT				
Clamp Force	kN	33000		
Mold opening stroke	mm	3160-2160		
Distance Between Tie bars	mm	2200×1950		
Max. Mold Height	mm	2000		
Min. Mold Height	mm	1000		
Max.daylight	mm	4160		
Max. mold weight	t	75		
Ejector Stroke	mm	600		
Ejector Force	kN	620		
OTHERS				
Max. Pump Pressure	Mpa	19.5		
Pump Motor Power	kW	237		
Heater Power	kW	200		
Machine Dimension (LxWxH)	mm	17000×4500×5500		
Machine Weight	tons	230		
Oil Tank Capacity	liter	5000		

DIMENSIONS

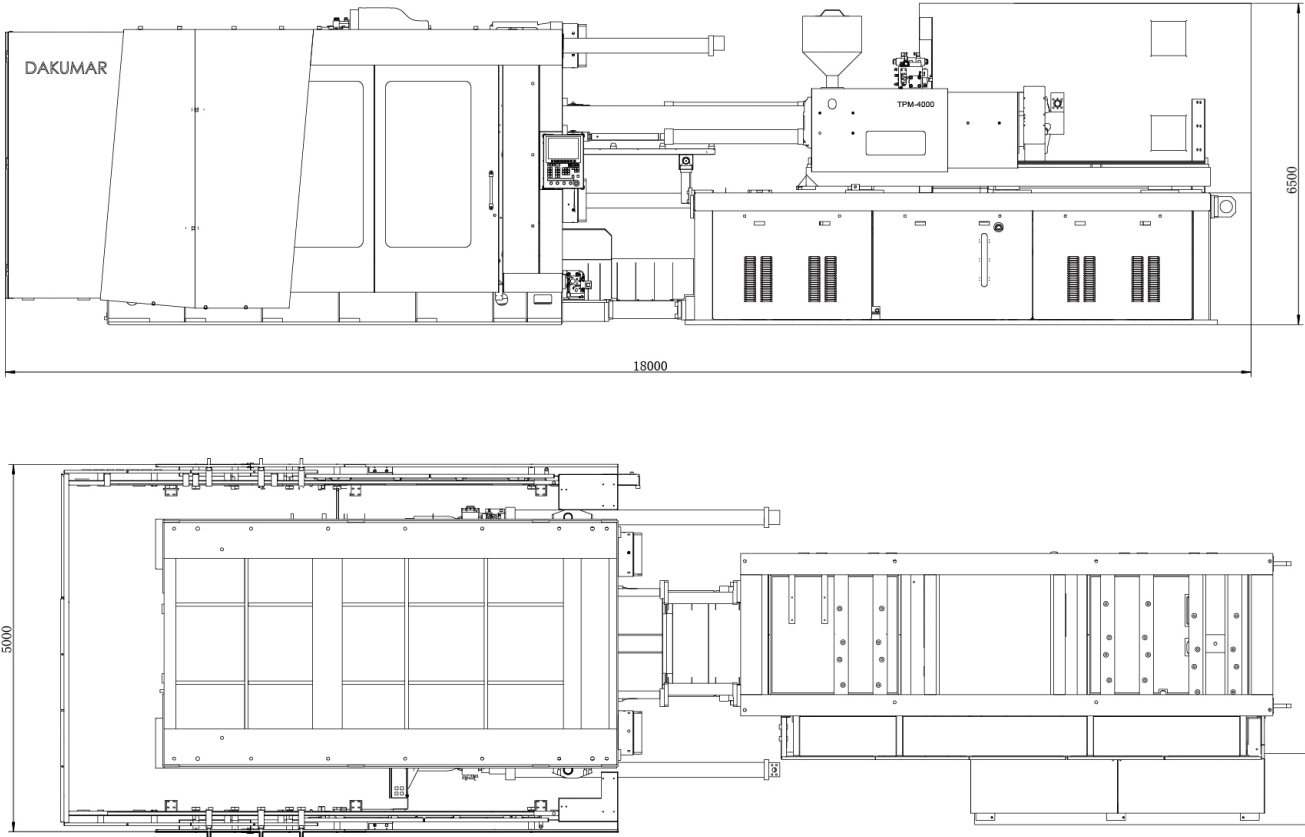


MOLD PLATEN DRAWING

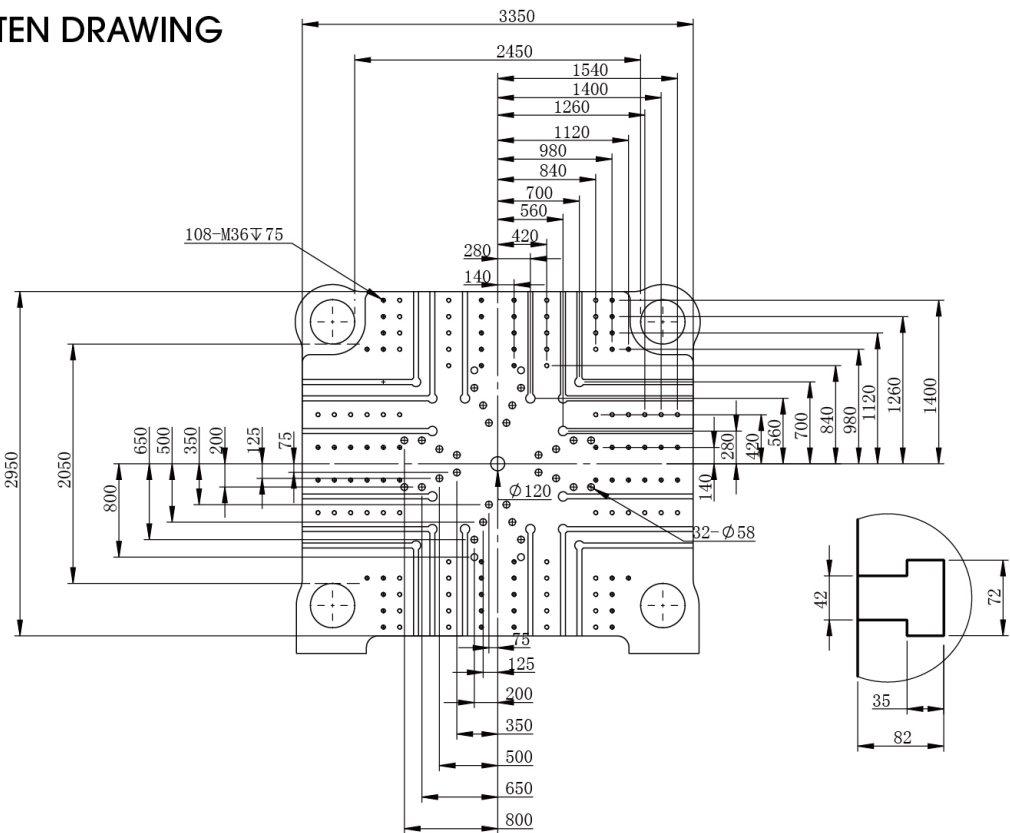


TWO PLATEN INJECTION MOLDING MACHINE		DKM-4000TP	
SCREW TYPE		A	B
INJECTION UNIT			
Screw Diameter	mm	240	260
Screw L/D Ratio	L/D	23.8	22
Theoretical Shot Volume	cm³	58781	68986
Injection Weight (PS)	gram	52903	62087
Injection Pressure	Mpa	160	136
Screw Speed	rpm	40	
Screw Stroke	mm	1300	
CLAMPING UNIT			
Clamp Force	kN	40000	
Mold opening stroke	mm	3460-2360	
Distance Between Tie bars	mm	2450×2050	
Max. Mold Height	mm	2100	
Min. Mold Height	mm	1000	
Max.daylight	mm	4460	
Max. mold weight	t	85	
Ejector Stroke	mm	600	
Ejector Force	kN	620	
OTHERS			
Max. Pump Pressure	Mpa	19.5	
Pump Motor Power	kW	385	
Heater Power	kW	240	
Machine Dimension (LxWxH)	mm	18000×5000×6500	
Machine Weight	tons	290	
Oil Tank Capacity	liter	6000	

DIMENSIONS



MOLD PLATEN DRAWING



STANDARD FEATURES

CLAMPING UNIT	
1	Compact two-platen clamping unit with high rigidity and minimal deflection
2	Moving platen mounted 'hydroblock' tie bar locking system and clamping pistons
3	Chrome plated tie bars
4	Euromap platen configuration
5	Moving platen with extended support shoes
6	Moving platen linear and lateral guidance system
7	Automatic mould thickness control
8	Automatic central lubrication system by means of electric pump
9	Three - stage mould closing speed profile
10	Three - stage mould opening speed profile
11	Moving platen pre - feed
12	Mould closing and opening stages governed through closed loop with proportional control valve
13	Digital reading of moving platen position displayed on operator interface
14	Mould thickness and clamping force self - adjustment
15	Digital reading of clamping force displayed on operator interface
16	Two - stage ejection speed profile
17	Ejection force control
18	Ejector proportional speed control, with overlapped movement at opening
19	Repeated ejection with stroke and speed control
20	Ejector return signal

INJECTION UNIT	
1	Twin cylinder injection unit
2	Hydraulic motor for screw controlled
3	Injection unit sliding on linear bearings
4	Swiveling injection unit for easy plasticising screw removal and cleaning (Pivot cylinder)
5	Quick barrel change system
6	Bimetallic barrel
7	General purpose screw profile, suitable for most types of thermoplastic materials, special screw
8	profiles on demand
9	Injection unit driven by two cylinders to assure perfect nozzle centering
10	Ceramic heater bands
11	Alarm threshold for set temperature range
12	Injection speed and pressure profiles
13	Switch to holding pressure triggered by screw position, hydraulic pressure or time
14	Digital reading of screw position displayed on operator interface
15	Adjustable screw rotation speed profile
16	Screw rotation delay
17	Adjustable back - pressure profile
18	Digital reading of back - pressure displayed on operator interface
19	Decompression before and after screw recovery
20	Auto purge program
21	Stainless steel hopper

CONTROLLER	
1	Integrated industrial PC complete with a CANBUS port using CanOpen protocol, a port that can be assigned to RS-485-A or RS-232-C, an EtherCAT port, and two USB port.
2	Colour touch monitor
3	Overvoltage category: II Equipment class: III according to EN 61131-2 IP code: IP20
4	Euromap 12, Euromap 67
5	Automatic Calibration Procedures for transducer, rotation rate and pump pressure and velocity
6	Integral keyboard
7	Multilingual language
8	Multiple User Level Permissions and Data Locks
9	Perpetual clock
10	Display area for process parameters
11	Four-stage mold closing with pressure, velocity and position adjustment
12	Five-stage mold opening with pressure, velocity and position adjustment
13	Two-stage high pressure with pressure and velocity adjustment
14	Mold overview Interface (Lock nuts state, Tiebars position and actual high pressure)
15	Auto safety gate open mode set up(after inject, after plasticize, during mold open, after mold open, after cycle)
16	Three-stage ejector forward and backward with pressure, velocity and position adjustment
17	Three ejector modes(Hold, Continuous, Shake), and ejector counter set up
18	Additional ejection stroke and ejection zero position setting in Mechanical stroke
19	Lubrication cycles
20	Air valve mode(after plasticize, after mold open ,after ejector,during mold open, before plasticize, after ineject, before plasticize , after inject , during mold close) ,delay and time set up
21	Core in and out mode, in and out priority set up
22	Multi-group valve gates control
23	10 stages inject with pressure ,velocity and position set up ,selectable number of stages
24	cut off mode(position ,time and inject pressure) set up

CONTROLLER	
25	10 stages hold with pressure ,velocity and position set up ,selectable number of stages
26	Decompression before plasticize and decompression after plasticize with pressure, velocity and position adjustment
27	Five-stages backpressure, rotation rate and position adjustment
28	Injection Curve Graphics
29	Cooling timer
30	Control nozzle with pressure 、 velocity and position adjustment
31	Auto purge
32	Weekly automatic heating start time setting
33	Heating nozzle PID control, function of optimize nozzle heating
34	Keep warm and group heating function
35	Overview Interface of Production Status
36	Production counter
37	Machine Action Sequence Interface
38	IO Monitor Interface
39	Scope
40	History of parameter modification
41	Alarm history and button of Confirm alarm
42	IO exchange
43	Notepad
44	Can capture a screenshot and save in PNG or PDF files.
45	Mold data and machine data save
46	Cycle Time Contrast Interface
47	SPC Statistical Analysis Interface
48	production data (PD)graphic
49	Production data(PD) histogram

HYDRAULIC SYSTEM

1	Variable delivery pump with closed loop proportional flow and pressure control
2	Digital reading of hydraulic circuit pressure displayed on operator interface
3	Proportional control valve for moving platen movement
4	Monitoring of oil level, temperature and oil filter efficiency
5	Oil temperature control system
6	Automatic cooling water shut-off valve
7	Oil preheating program
8	Off-line circuit for oil filtering and cooling
9	Oil cooling with platen heat exchanger
10	Tank window to ease cleaning
11	Optical and electrical oil level gauge

ELECTRICAL SYSTEM

1	Enclosure for electric components with IP55 protection
2	Electric motors with thermal protection
3	Interlocked main switch to prevent electrical cabinet from being opened when press is energised
4	Overload cutouts for motor - pump units and dosing motor
5	Fuses and static relays for control of plasticising cylinder temperatures
6	Vectorial inverter for servo moter screw rotation
7	Fan for air circulation in electrical cabinet
8	LED indicators on solenoid valves
9	Fully labelled electrical circuits
10	Conforms to Euromap or UL standards

OPTIONAL FEATURES

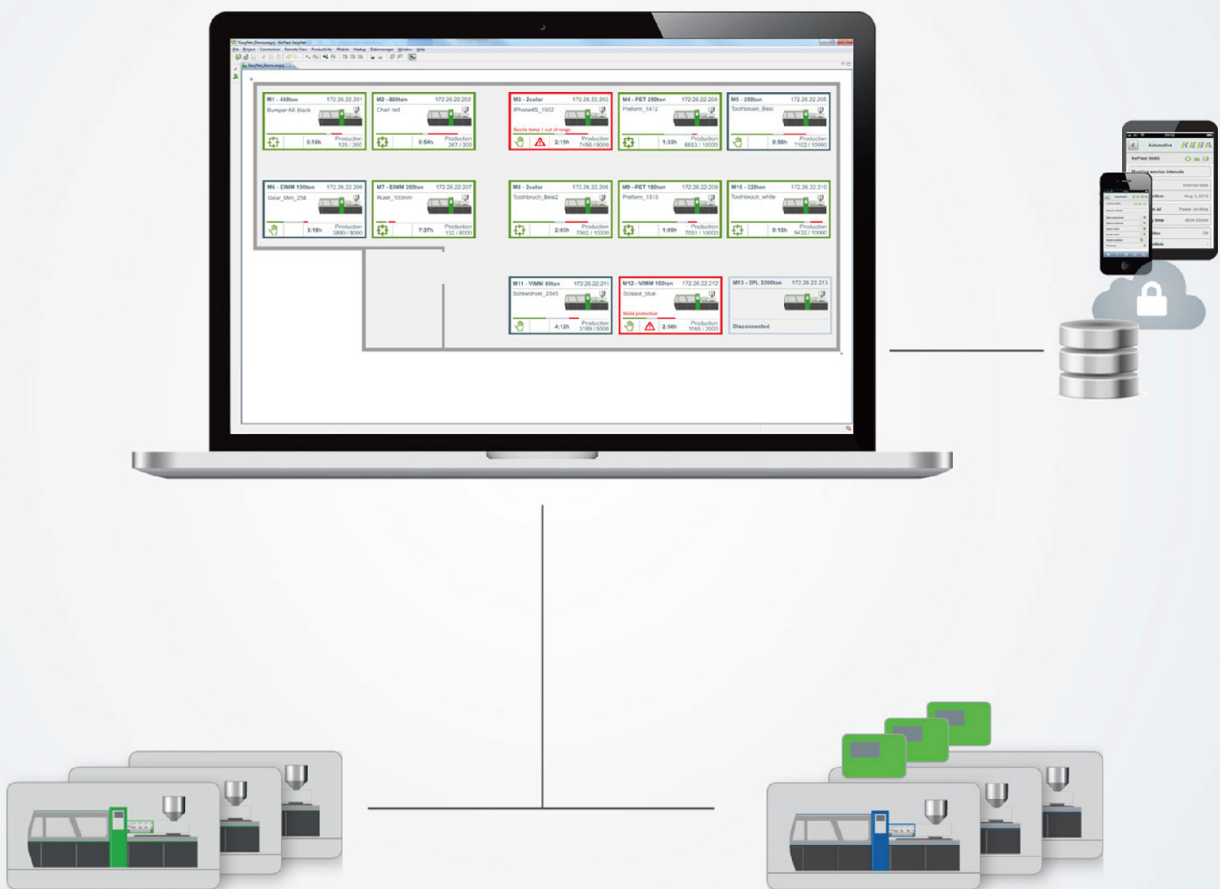
OPTIONS

1	Core Pull MP/FP
2	Air Blast MP/FP
3	EU67 Robot Interface
4	Integrated Robot Interface
5	Special Screw (Wear Resistant, Corrosion Resistant, Mixing, Barrier, Low Compression, etc.)
6	Special Barrel (Corrosion Resistant, High Wear Resistant)
7	Barrel Liner
8	Special Tip Design
9	Extended Nozzle Body
10	Additional Nozzle Zone
11	Mold Valve Gate Hydraulic
12	Mold Valve Gate Pneumatic
13	Hydraulic Shut-Off Nozzle – Bolt
14	Integrated Hot Runner
15	Mold Pressure Transducer Interface
16	Special Paint
17	Additional Flowmeters
18	Feed Throat Cooling
19	Magnetic Platens
20	Hydraulic Mold Clamps
21	Rotary Table

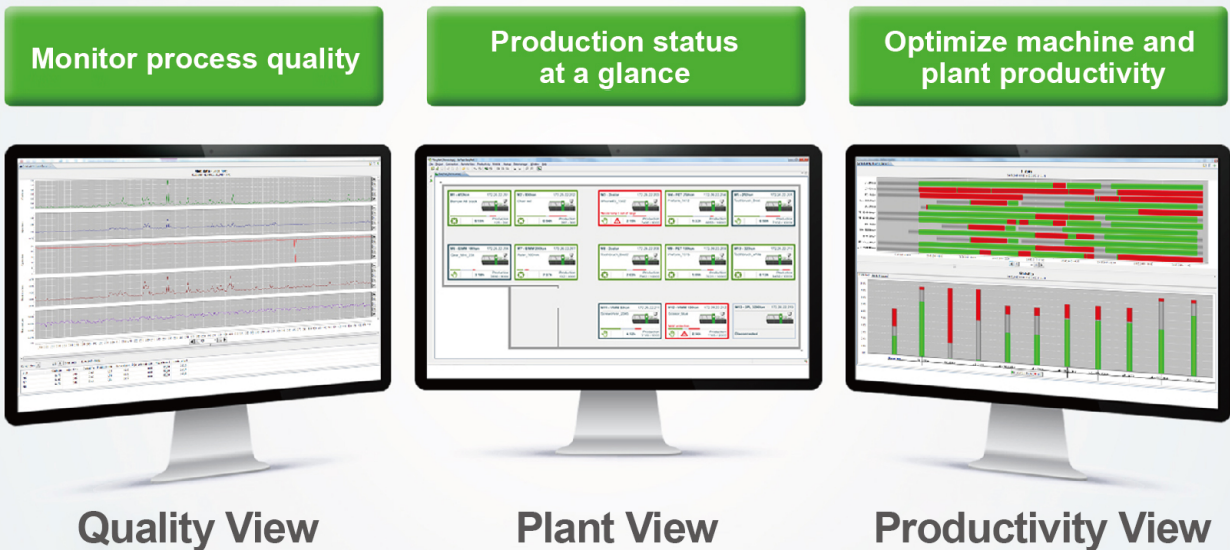
KePlast EasyNet



1 Monitor production with PC, Tablet and Smart Phone



2 Easy Data analysis for quality and productivity



3 Easy access to machine data at any time by Tablet and Smart Phone

