



SRC-DP Servo Hydraulic
Two-Platen Injection Moulding Machine
(6,000-33,000 kN)

INJECTION

MOULDING MACHINES

It's time to get more!

TWO-PLATEN
UNIQUE PERFORMANCE
SRC-DP
SERIES



SARAC PLASTIC TECHNOLOGIES

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INJECTION
MOULDING MACHINES

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MOULDING MACHINES

50 YEARS OF EXPERIENCE

For more than 50 years, Sarac Plastic Technologies have supplied highly reliable plastic processing machines worldwide with dependable service and competitive prices. Many years of experience in the plastics industry has enabled us to have a comprehensive understanding of markets, processes, technologies and customer-specific requirements. Our customer satisfaction has earned Sarac a reputation as one of the world's leading suppliers in the plastic machinery industry. With its factory stretching to an area of 5.000 m² and a dedicated team of highly qualified 30 engineers and technicians Sarac can provide effective solutions for its customers requirements.

SARAC manufactures a wide range of new generation ServoTech injection moulding machines built to European standards utilising proven high-quality European brand components. We can also provide servo energy saving hydraulic injection moulding machines with high speed and two-platen options. Machines can also be built to specific to customers requirements our moulding machines are exported worldwide, with a comprehensive network of sales and service agents to look after all your after sales needs.

Throughout the past half century, and into the next, this commitment to customer satisfaction will continue to be the foundation for our success.



SRC-DP

SERIES

SRC - DP Two-Platen injection moulding machines give a great deal of advantages with its unique, compact machine design, Servo System and German gearbox electric screw drive. Large products with higher shot weights like white goods, automotive and industrial parts can be manufactured on less floor space.

HIGH PRODUCTIVITY ON A SMALL FOOTPRINT

PERFORMANCE MACHINES
FOR PERFORMANCE
PRODUCTION



MAIN FEATURES

Available from 6,000 - 33,000 kN

Compact size

Stable and reliable performance.

Space saving concept: Machine has less footprint with a high shot capacity and efficiency.

Less Hydraulic Oil: The need of hydraulic oil quantity is less than half of conventional machines.

Flexible design structure: Clamping unit can be combined with different injection units.

Advanced two-platen design providing largest stroke and daylight with the smallest footprint possible.

Improved clamping unit allows shorter cycle times.

INJECTION

MOULDING MACHINES

Excellent Two Platen Technology

Compact two-platen clamping unit with high rigidity and minimal deflection

KEBA Austria Touch Screen Controller Unit

High Plasticizing Performance

Independent electric screw drive ensures high efficient melting. By the help of Servo Motor Pump within the whole system, the mould opening and clamping movements can be synchronized with plasticization.

TWO-PLATEN
UNIQUE PERFORMANCE

SRC-DP

SERIES

**German
Knödler Gearbox**

**BOSCH - REXROTH
Hydraulics**

T-Slot & Thread

Non-contact Tie Bar Design

Lower friction of moving platens, linear guide system allows faster cycle times with contribution of non-contact tie bars.

Moving platen on the linear guide

Optimized two platen design ensures long term high degree parallelism

**Highly stable and
reliable injection unit**

Two parallel hydraulic injection pistons ensure highly stable and reliable injection process.

Energy Saving Servo Technology

Reduced energy consumption up to 30-60%

TWO-PLATEN
UNIQUE PERFORMANCE

**SRC-DP Servo Hydraulic
Two-Platen Injection Moulding Machine**
(6,000-33,000 kN)

INDUSTRY 4.0


KEBA
Automation by innovation.

Monitor and
store process
quality

Quality View
Analyze and
protocol
process quality

Optimize
machine and plant
productivity

Plant View

Production
status at a
glance

APPLICATION EXAMPLES



WHITE GOODS

- Refrigerator support part
- Washing machine cover
- Air purifier shell
- Air conditioner frame



AUTOMOTIVE

- Bumper
- Engine cover
- Battery cover
- Car interiors



INDUSTRIAL PLASTIC GOODS

- Trash can
- Plastic furniture

HIGH EFFICIENCY AND LOWER ENERGY CONSUMPTION

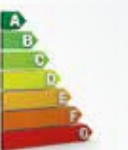
The concept of high efficiency and lower energy consumption altogether with smart design of SRC two platen injection machine allows our customers to gain the following advantages:

- *Energy saving of more than 25% comparing to hydraulic machines.*
- *Maximization of production efficiency*
- *ROI Return of investment in a short cycle time*



ADVANTAGES OF SERVOTECH TECHNOLOGY

30%-50%
ENERGY SAVINGS

**Energy Saving**

Between 30% - 50% of energy input is saved.

**Reduced Energy Consumption**

Servo motor rpm adapts according to need from 0 to 3000 rpm.

**Quick Response**

The drive system requires only 0.05 seconds to reach the maximum power output.

**Noise Reduction**

Quiet gear pump & variable speed operations can be utilised when required.

**Reduced Heat Generation**

The system only delivers hydraulic oil when it is needed.

**Reliable Holding Pressure**

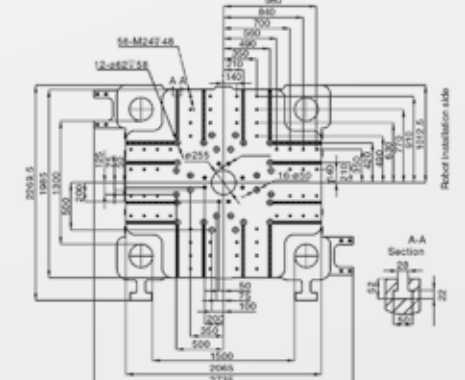
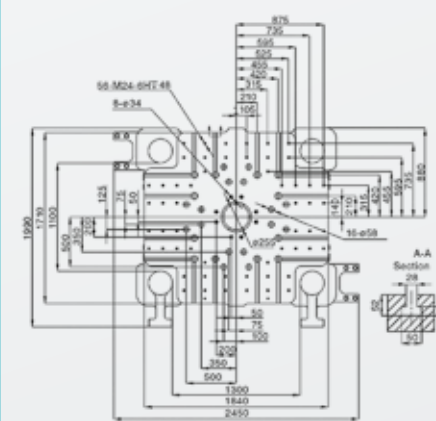
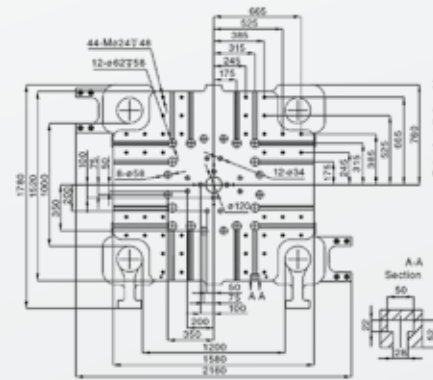
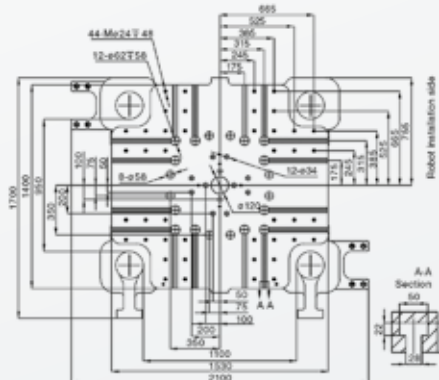
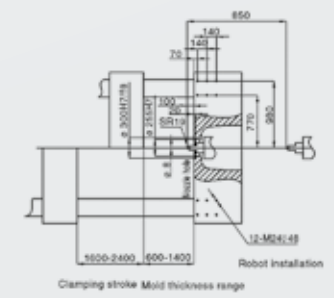
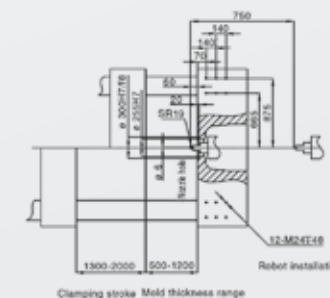
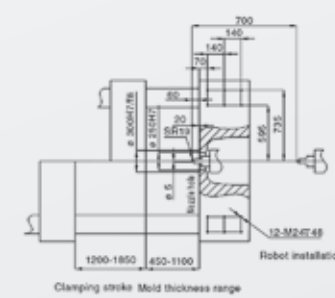
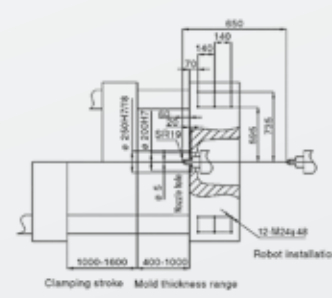
During holding pressure, servo motor slows down rotation and consumes low energy.

SRC 1400-DP

Clamping Force	kN	6000	8000	10000	12000	14000
Clamping Stroke	mm	900-1450	1000-1600	1200-1850	1300-2000	1600-2400
Space Between Tie Bars	mm	880X880	1100X950	1200X1000	1300X1100	1500X1300
Min Mould Dimension	mm	616x616	770x665	840x700	910x770	1050x910
Mould Thickness Range	mm	350-900	400-1000	450-1100	500-1200	600-1400
Opening Force	kN	176	199	223	275	303
Open Speed	mm/s	1112	1330	1244	1192	1453
Close Speed	mm/s	996	1321	1356	1145	1514
Max. Daylight	mm	1800	2000	2300	2500	3000
Ejector Force	kN	110	166	166	198	232
Ejector Stroke	mm	250	300	300	350	350
No. Of Ejector Pins	pcs	21	21	21	29	29
Dry Cycle (Euromap 6)	s	4	5.1	5.4	5.8	6.2

SRC-DP Injection Unit		3300			5300			7100			9600			15000		
Screw Diameter	mm	70	80	90	80	90	100	90	100	110	100	110	120	120	130	140
Screw L/D Ratio	L/D	25.1	22.0	19.6	24.8	22.0	19.8	24.4	22.0	20.0	24.2	22.0	20.2	23.8	22.0	20.4
Shot Volume	cm ³	1478	1930	2443	2262	2863	3534	3181	3927	4752	4320	5227	6220	7351	8628	10006
Shot Weight (PS)	g	1330	1737	2199	2036	2577	3181	2863	3534	4277	3888	4704	5598	6616	7765	9005
Injection Pressure	bar	2280	1740	1380	2290	1810	1470	2180	1760	1460	2150	1780	1490	2140	1820	1570
Injection Rate (PS)	g/s	406	530	670	574	727	898	663	818	990	745	902	1073	1051	1234	1431
Plasticizing Capacity (PS)	g/s	55	71	90	59	75	103	75	103	138	109	138	188	157	184	230
Injection Speed	mm/s	105			114			104			95			93		
Injection Stroke	mm	384			450			500			550			650		
Screw Speed	rpm	160			125			125			125			100		
Injection Unit Force	ton	16.5			20.4			20.4			20.4			26.1		
Carriage Stroke	mm	500			650			700			750			850		

Main Motor Power	kW	37.7+27.2+4+5.5	56.5+37.7+4+5.5	56.5+46.1+4+5.5	56.5*2+4+5.5	56.5*2+46.1+4+5.5
No. Of Heater Zones	unit	6+1	6+1	6+1	6+1	6+1
Heater Power	kW	34	47	51	56	89
Machine Dimensions (L x W x H)	m	7.5 x 2.5 x 2.3	9.3 x 3.0 x 2.4	9.6 x 3.0 x 2.4	10.6 x 3.4 x 2.6	12.6 x 3.7 x 2.7
Oil Tank Capacity	L	750	1000	1200	1300	1900
Machine Weight (Clamping + Injection Units)	t	17 + 7	23 + 10	30 + 12	37 + 14	47 + 17

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SRC 3300-DP

CLAMPING UNIT

Clamping Force	kN	16000	18000	23000	28000	33000
Clamping Stroke	mm	1750-2650	1800-2700	2000-3000	2100-3100	2200-3200
Space Between Tie Bars	mm	1600X1400	1700X1500	1900X1700	2000X1800	2200X2000
Min Mould Dimension	mm	1120x980	1190x1050	1330X1190	1400X1260	1540X1400
Mould Thickness Range	mm	650-1550	700-1600	800-1800	900-1900	1000-2000
Opening Force	kN	464	363	429	539	703
Open Speed	mm/s	1368	1368	957	957	1061
Close Speed	mm/s	1283	1283	997	997	951
Max. Daylight	mm	3300	3400	3800	4000	4200
Ejector Force	kN	309	332	396	464	618
Ejector Stroke	mm	400	400	450	500	550
No. Of Ejector Pins	pcs	25	25	25	25	25
Dry Cycle (Euromap 6)	s		6.8	8.2	8.8	9.8

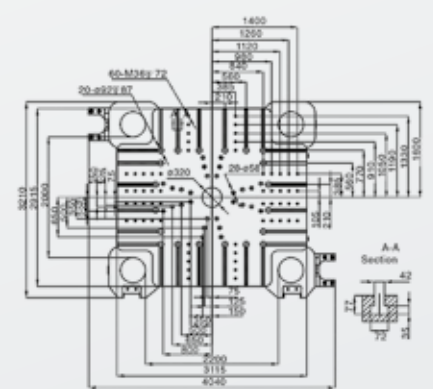
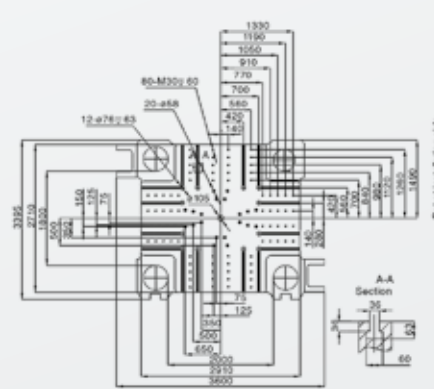
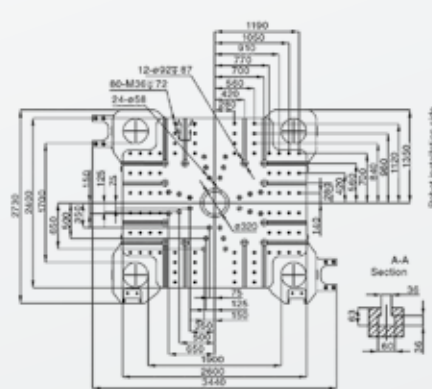
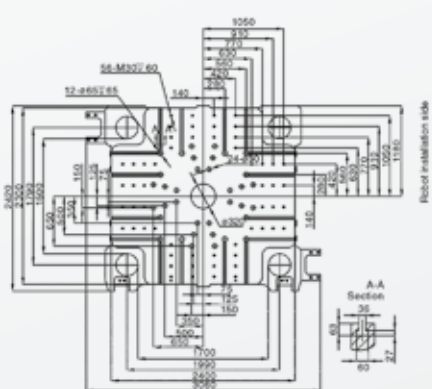
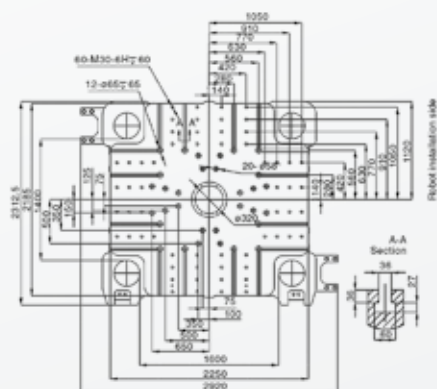
INJECTION UNIT

SRC-DP Injection Unit		20000			20000			30000			45000			55000		
Screw Diameter	mm	130	140	150	130	140	150	140	160	180	160	180	200	180	200	220
Screw L/D Ratio	L/D	23.7	22.0	20.5	23.7	22.0	20.5	25.1	22.0	19.6	24.8	22.0	19.8	24.4	22.0	20.0
Shot Volume	cm³	9291	10776	12370	9291	10776	12370	12315	16085	20358	18096	22902	28274	25447	31416	38013
Shot Weight (PS)	g	8362	9698	11133	8362	9698	11133	11084	14476	18322	16286	20612	25447	22902	28274	34212
Injection Pressure	bar	2040	1760	1530	2040	1760	1530	2280	1740	1380	2150	1700	1380	2010	1630	1350
Injection Rate (PS)	g/s	1180	1368	1571	1180	1368	1571	1155	1508	1909	1222	1546	1909	1833	2263	2739
Plasticizing Capacity (PS)	g/s	184	230	294	184	230	294	171	250	339	250	339	401	271	321	388
Injection Speed	mm/s	89			89			75			61			72		
Injection Stroke	mm	700			700			800			900			1000		
Screw Speed	rpm	100			100			80			80			64		
Injection Unit Force	ton	26.1			26.1			26.1			31.6			31.6		
Carriage Stroke	mm	1000			1000			1000			1000			1000		

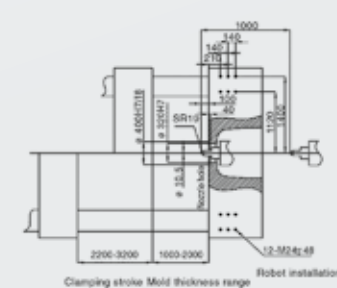
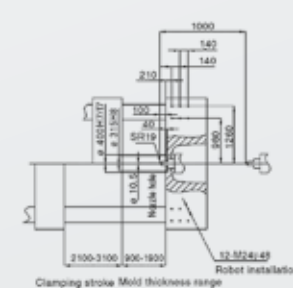
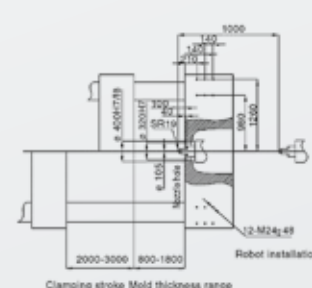
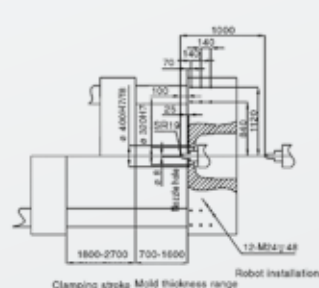
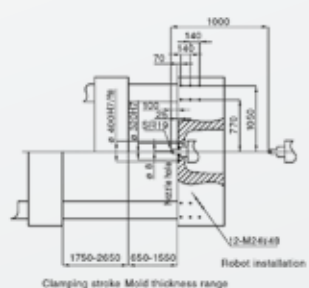
OTHERS

Main Motor Power	kW	56.5*3+4+7.5	56.5*3+4+7.5	56.5*2+37.7*2+5.5+7.5	56.5*2+37.7*2+5.5+7.5	56.5*3+46.1*2+5.5+7.5
No. Of Heater Zones	unit	6+1	6+1	6+1	6+1	6+1
Heater Power	kW	93	93	123	133	172
Machine Dimensions (L x W x H)	m	13.0 x 3.9 x 2.8	13.4 x 4.1 x 2.8	15.5 x 4.5 x 3.0	16.500 x 4.7 x 3.3	17.1 x 5.1 x 3.7
Oil Tank Capacity	L	2000	2000	2300	2500	2700
Machine Weight (Clamping + Injection Units)	t	55 + 21	67 + 23	90 + 30	110 + 35	137 + 40

■ PLATEN DIMENSIONS



CLAMPING PARAMETERS





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FOR HIGH PERFORMANCE

PERFORMANCE MACHINES
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PRODUCTION



INJECTION
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