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SWIFT MACHINES
MACHINE CATALOGUE



VERTICAL INJECTION MOULDING MACHINES | MOULDS | AUXILLIARIES

ABOUT US

We manufacture machines that are designed according to the needs of industry. we are INDIAN company designing and manufacturing best in class machines in India for world.



We manufacture vertical injection moulding machines designed and manufactured in INDIA for the world, we aim to deliver the machines that are specifically designed according to the needs of the industry and customers, we provide multiple customization and options so that our customers can have machines that suit their application the best.

We design and manufacture every component of the machine in-house to make sure that it meets our quality standards, we also develop the software for machine in-house to make it easy to understand and operate.

We take pride in our machines and our craftsmanship, to achieve this level of craftsmanship and quality of machines we had to keep on innovating, and after 4 generations of machines we are improving our technology at a class leading pace.



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Insert Moulding The Perfect Combination

In many cases having more than 1 is always more beneficial, Same is the case of having multiple factors working towards a common goal. Same principle applies when different materials are combined.

$$1 + 1 > 2$$

All technical parts can achieve their function and desired characteristics only through best manufacturing process and intelligent combination of techniques and different materials.

Material synergy must be utilized consistently.

Insert Moulding with plastic fuses other materials with plastic to create stronger components, Materials such as metal parts, glass, plastic components, electronic components can be insert moulded to improve their characteristics.

Overmoulding fuses plastic with other materials

Our machines are designed with insert moulding in mind, Not only does our machine perform insert moulding with maximum efficiency and precision, it also offers a whole lot of other features such as ergonomic advantages, better safety, higher production & better customization.

More **PRODUCTIVITY.**

Increase production output by saving time and reducing delays, even with complex or multiple insert placement and component removal procedures. Machines equipped with rotary stations or sliding table work with two station operation method, where injection process is performed in parallel with parts handling at primary and secondary stations.

Ergonomic **OPERATION.**

Horizontal orientation of machine table results in easier placement of inserts as Mould is placed horizontally thus reducing chances or insert movement significantly.

Removal of finished component is also made easier due to horizontal placement and vertical ejection of the component from the mould.

Increased **EFFICIENCY.**

Using Low friction parts and high precision engineering mechanical losses in machine are reduced which in result increase the operational efficiency of machine.

Using Swift **Greendrive** servo hydraulics increase overall efficiency to levels previously unattainable (**Greendrive** is optional).

High **CUSTOMIZATION.**

We take pride in our engineering expertise as a result of which we are able to provide high level of customization in our machines to better tailor the machine to your production requirements.

Customized machines can have personalized mould sizes, clamping requirements, injection requirements, automation requirements, reach out to us and we'll be happy to help.

Increased **SAFETY.**

Safety should be highest priority. All our machines are equipped with operator safety and mould safety features.

Operator safety is ensured by the use of Safety light curtains, closed gates on side of the machine, emergency switches, two operation start switch to ensure ends are out of clamping area and heat shields on all high temperature areas.

Mould safety is ensured by utilizing variable clamping pressure, and mould protection protocol which prevents machine from applying clamping pressure if foreign object prevents mould from closing.

MACHINE APPLICATIONS

**AUTOMOTIVE
COMPONENTS**

**ENGINEERING
COMPONENTS**

**HOUSEHOLD
COMPONENTS**

**SURGICAL
COMPONENTS**

**INDUSTRIAL
COMPONENTS**

**AGRICULTURAL
COMPONENTS**

**GENERAL PURPOSE
COMPONENTS**

**MEDICAL
COMPONENTS**

**ELECTRICAL
COMPONENTS**

CLAMPING UNIT

Your mould sizes can differ greatly depending on product, especially in the field of vertical injection moulding machines. Here, machine specification flexibility is most important factor for successful production.

With our joint expertise in mechanical, electrical and hydraulic fields we take pride in our design as our machines are highly customizable as per your requirement. be it mould size, opening closing requirements, shot weight requirement, clamping pressure requirements, operating table requirement, automation requirement, our range of machines can fulfill all your production requirements.

Our clamping units are designed for efficient, fast and precise clamping pressure control over the mould, accurate clamping pressure is necessary to achieve high quality moulding results and longer mould life.

We provide multiple customization options for our clamping units.

Focus on Flexibility and Precision

Customizing clamping unit :

- Clamping Force
- Minimum Mould Height
- Maximum Mould Height
- Table Size
- Maximum Mould Size

Our machines offer multiple advantages :

- Ergonomic working area
- Easy accessibility
- Easier mould installation
- Increased mould safety
- Easy machine setup
- Multistage clamping control
- High precision clamping
- Easy control interface
- Smooth clamping movement
- Increased operator safety



CLAMPING TABLE

Fixed type clamping table is where the mould is stationary and clamping unit opens and closes the mould.

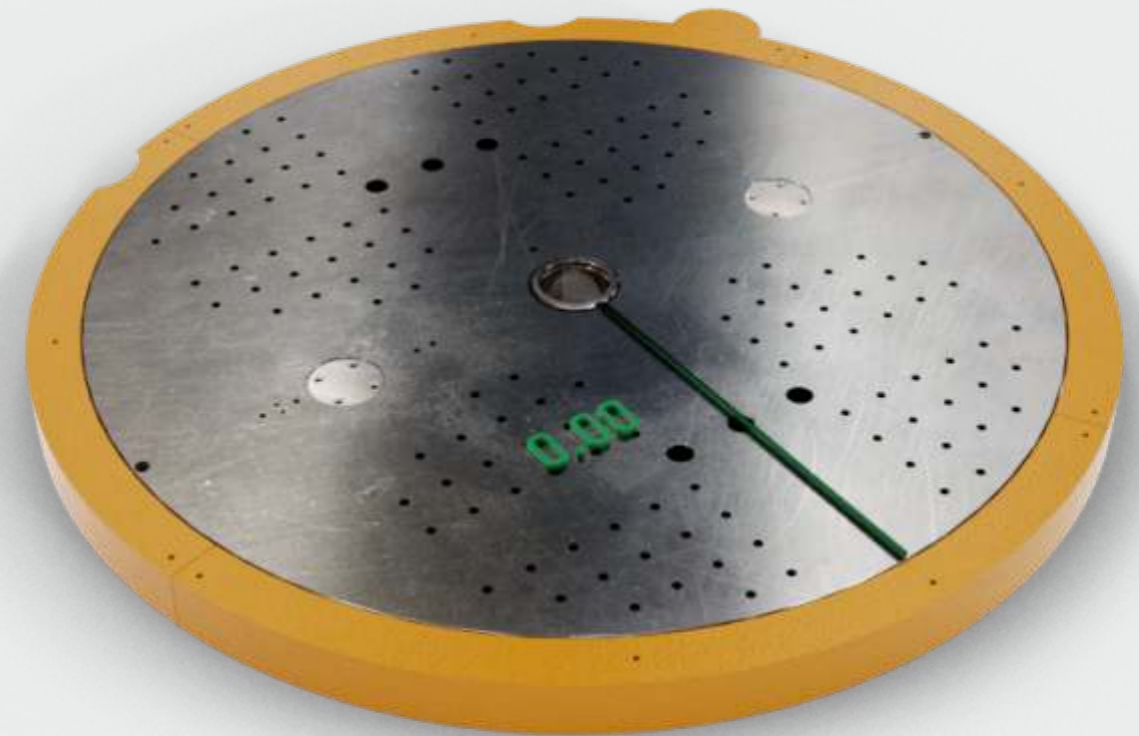
Single Slider type clamping table is where the mould is clamped on a sliding table and the mould moves in/out of the clamping area for ergonomic advantage.

Double Slider type clamping table is where one and half mould is clamped on a sliding table and the mould moves in/out of the clamping area for ergonomic advantage. while also increasing production output due to reduced stationary time of the machine. Parallel operation of Injection and component removal/placement at both ends of the table.

Rotary Type clamping table is where one and half mould is clamped on a rotating table and the mould rotates in/out of the clamping area for ergonomic advantage. while also increasing production output due to reduced stationary time of the machine. Parallel operation of Injection and component removal/placement at two positions of table.

Depending on your production requirement we have multiple clamping table options

- Fixed type clamping table
- Single Slider Type Clamping Table
- Double Slider Type Clamping Table
- Rotary 2 Station Type Clamping Table
- Rotary 3 Station Type Clamping Table



INJECTION UNIT

Injection is the only way to control material flow inside mould thus higher control over material flow and injection position is required to achieve high quality moulded components.

With highly customizable injection unit you can choose the injection unit that suits your production requirements.

Using super accurate measuring apparatus and highly sensitive controller we can accurately control the positioning of injection to control exact amount of material entering mould thus producing best moulding results and these results can be reproduced infinite number of times.

The Hydraulic injection system is highly reliable and robust with our optional bimetallic screw injection unit can be taken to next level of usage with ultra high density materials.

Multiple Heating Zones provide accurate control over material melting process inside the barrel, you can set custom heating stages for materials and melt the material accurate resulting in reduced time material has to stay at higher temperatures thus preserving material composition and integrity.

Multiple Injection Unit Screw Options depending on your production requirement you can choose your ideal injection unit.

Focus on Control and Flexibility



HIGH EFFICIENCY

Saving energy does not mean just using low power electrical hardware, true energy savings can only be achieved if all the components of machine work at their best efficiency. all components of machine including mechanical and electrical systems need to operate at max efficiency to achieve best energy savings.

With Swift Greendrive the electrical components can achieve their best efficiency throughout their operating life, and through our expertise in material science and engineering we make sure that all the hydraulic and electrical components have as low mechanical losses as possible to add to the savings achieved by Greendrive.

When all the components from both electrical and mechanical systems work in synergy only then true efficiency and energy savings be achieved.

Greendrive | Intelligent Hydraulics

Greendrive means serious energy savings. Compared to conventional hydraulic machines, the intelligent Hydraulic system enables you to save upto 60% energy. how is it achieved? The drive is only operational during mechanical movement in machine, and enters idle state when the mechanical movement is completed, consuming virtually zero energy in idle state(during cooling time for example). When the Hydraulic system is operational it utilizes as low energy as possible thanks to highly efficient hydraulic layout and control mechanism.

Added advantage of Greendrive is fact that the hydraulic system is onboard, this makes it ideal for moulds with hydraulic components such as core pullers.

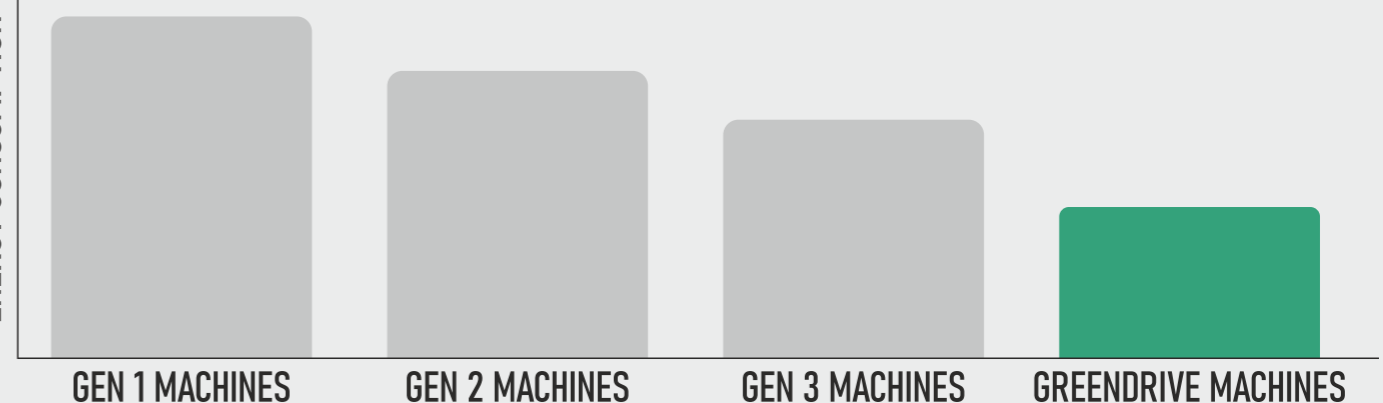
As a result of higher operating efficiency another bonus is low operational noise levels, and also lower hydraulic oil temperature during longer operational periods.

How does Swift Greendrive Works ?

Swift Greendrive system contains a servomotor coupled to fixed displacement pump instead of conventional asynchronous motor with variable pump. Achieved energy efficiency is result of multiple technical factors.

1. Absence of control valves in the main drive unit for speed and pressure regulation. In conventional machines, control valves for speed and pressure regulation cause high energy loss because of pressure difference. on contraire the Swift Greendrive regulates speed and pressure without control valves, this results in much higher efficiency rate
2. Main system speed is regulated directly via controlling the rotational speed of Greendrive, with no additional losses in pressure and energy. instead of using pressure control valve we utilize smart hydraulic design and custom system control algorithms.
3. Green drive is only operational while the machine is applying clamping force, once the clamping force is achieved by the system, Greendrive enters idle state consuming virtually Zero energy, thus increasing overall machine efficiency. As cycle time increase, energy savings also rise significantly.

ENERGY CONSUMPTION



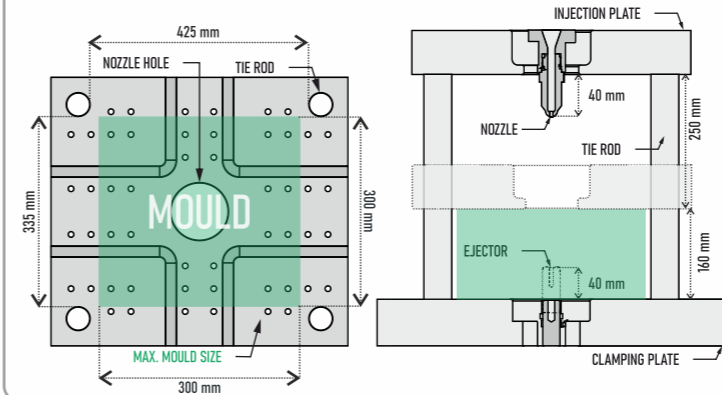
SV FIX - SERIES



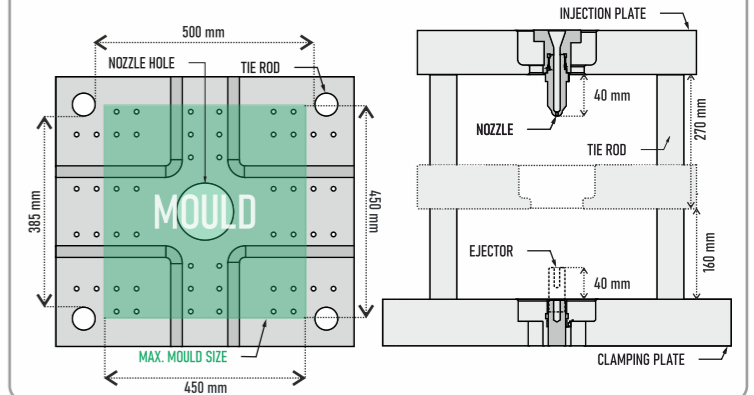
PARAMETER	UNITS	SV 30 FIX			SV 45 FIX			SV 60 FIX			SV 90 FIX			SV 120 FIX			SV 160 FIX			SV 200 FIX		
SCREW DIAMETER	mm	22	25	30	30	32	35	32	35	38	40	42	45	42	45	50	45	50	55	55	60	70
INJECTION PRESSURE	kgf/cm ²	2126	1646	1143	1143	1004	840	1661	1388	1177	1680	1523	1327	1523	1327	1075	1327	1075	888	888	746	548
TH. INJECTION VOLUME	cm ³	47.5	61	88	88	100	120	116	139	164	301	332	381	332	381	471	397	491	593	593	706	961
MAX. INJECTION WEIGHT (P.S)	gram	40	55	79	79	90	108	105	125	148	271	299	343	299	343	424	358	442	534	534	636	865
INJECTION RATE	cm ³ /sec	38	48	94	94	120	114	89	87	158	111	122	140	122	140	173	175	173	262	367	437	595
INJECTION SPEED	mm/s	130			150			100			88			88			131			155		
INJECTION STROKE	mm	125			125			145			240			240			250			250		
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300		
NOZZLE OUT OF PLATEN	mm	40			40			40			40			40			40			40		
CLAMPING FORCE	tf	30			45			60			90			120			160			200		
	mm	200			250			270			270			285			350			350		
MIN. MOULD HEIGHT	mm	160 (235)			160 (235)			160 (235)			245 (345)			285 (385)			300 (400)			300 (400)		
MAX. OPENING	mm	360 (435)			410 (485)			430 (505)			515 (615)			570 (670)			650 (750)			650 (750)		
DISTANCE BTW. TIE ROD	mm	375 x 325			425 x 300			500 x 355			525 x 525			680 x 515			700 x 525			750 x 600		
MAX MOULD SIZE (LxW)	mm	300 x 300			350 x 325			450 x 450			500 x 500			550 x 550			600 x 550			700 x 550		
EJECTOR STROKE	mm	40			40			40			40			40			40			40		
EJECTOR FORCE	tf	2.2			2.2			2.7			4.6			4.6			4.6			4.6		
SYSTEM PRESSURE	lpm	140			140			140			140			140			140			160		
OIL TANK CAPACITY	liters	210			225			250			270			320			360			420		
PUMP MOTOR POWER	kW (hp)	5 (7.5)			7.5 (10)			7.5 (10)			15 (20)			18.5 (25)			22.5 (30)			30 (4.2)		
HEATING POWER	kW	3.4	3.4	5	5	5.8	5.8	5.8	5.8	6	6.6	7.5	7.5	7.5	7.5	8.3	7.5	8.3	9.1	9.1	10.1	11
TOTAL WATTAGE	kW	8.4	8.4	10	12.5	13.3	13.3	13.3	13.3	13.8	21.6	22.5	22.5	26	26	26.8	30.3	30.8	31.6	39.1	40.1	41
TOTAL WEIGHT	ton	1.4			2.0			2.5			3.7			5.4			6.7			8.1		
MACHINE DIMENSION (LxWxH)	mtr.	1.9 x 1.2 x 3.0			2.0 x 1.3 x 3.1			2.2 x 1.4 x 3.4			2.3 x 1.5 x 3.9			2.4 x 1.7 x 4.0			3.0 x 2.4 x 4.3			3.5 x 2.6 x 4.7		

MACHINE TECHNICAL DRAWING

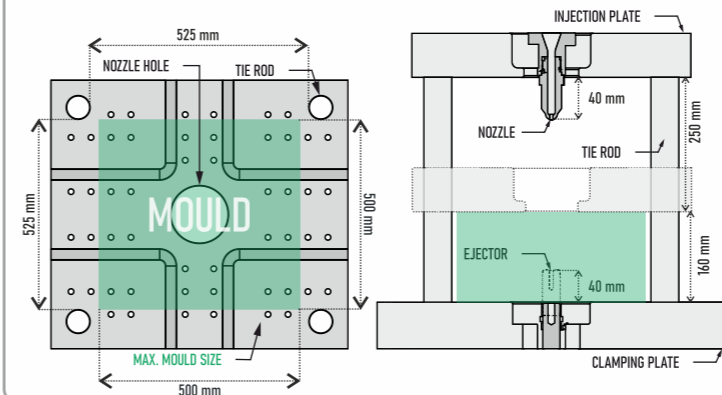
SV 45 FIX



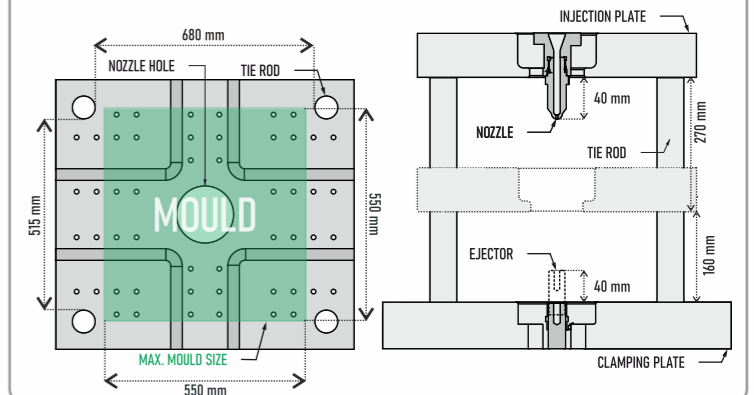
SV 60 FIX



SV 90 FIX



SV 120 FIX



IDEAL FOR

Small / Medium scale production

Overmoulding with long inserts

Overmoulding on cables and pipes.

Components with small inserts

SALIENT FEATURES

Four column ram type vertical clamping unit for smooth, stable & precise clamping unit control, and equal distribution of clamping force.

Increased safety for operator with many safety features provided as standard, high mould safety thanks to high precision hydraulics and precise control.

Advanced controller with many robust features and ease of use, designed and programmed with production needs in mind.

High production efficiency, result of swift GREENDRIVE technology, incorporating advanced hydraulics and mechanical system to achieve max efficiency.

SV SS - SERIES



PARAMETER	UNITS	SV 30 SS			SV 45 SS			SV 60 SS			SV 90 SS			SV 120 SS			SV 160 SS			SV 200 SS		
SCREW DIAMETER	mm	22	25	30	30	32	35	32	35	38	40	42	45	42	45	50	45	50	55	55	60	70
INJECTION PRESSURE	kgf/cm ²	2126	1646	1143	1143	1004	840	1661	1388	1177	1680	1523	1327	1523	1327	1075	1327	1075	888	888	746	548
TH. INJECTION VOLUME	cm ³	47.5	61	88	88	100	120	116	139	164	301	332	381	332	381	471	397	491	593	593	706	961
MAX. INJECTION WEIGHT (P.S)	gram	40	55	79	79	90	108	105	125	148	271	299	343	299	343	424	358	442	534	534	636	865
INJECTION RATE	cm ³ /sec	38	48	94	94	120	114	89	87	158	111	122	140	122	140	173	175	173	262	367	437	595
INJECTION SPEED	mm/s	130			150			100			88			88			131			155		
INJECTION STROKE	mm	125			125			145			240			240			250			250		
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300		
NOZZLE OUT OF PLATEN	mm	40			40			40			40			40			40			40		
CLAMPING FORCE	tf	30			45			60			90			120			160			200		
CLAMPING STROKE	mm	200			250			270			270			285			350			350		
MIN. MOULD HEIGHT	mm	160 (235)			160 (235)			185 (260)			200 (300)			240 (340)			300 (400)			300 (400)		
MAX. OPENING	mm	360 (435)			410 (485)			455 (530)			470 (570)			525 (625)			650 (750)			650 (750)		
DISTANCE BTW. TIE ROD	mm	490 x 385			540 x 400			590 x 450			640 x 500			750 x 600			780 x 635			910 x 680		
MAX MOULD SIZE (LxW)	mm	250 x 250			300 x 300			350 x 350			450 x 450			500 x 500			600 x 500			700 x 550		
EJECTOR STROKE	mm	145			145			145			145			145			145			145		
EJECTOR FORCE	tf	2.2			2.2			2.7			4.6			4.6			4.6			4.6		
SYSTEM PRESSURE	lpm	140			140			140			140			140			140			160		
OIL TANK CAPACITY	liters	210			225			250			270			320			360			420		
PUMP MOTOR POWER	kW (hp)	5 (7.5)			7.5 (10)			7.5 (10)			15 (20)			18.5 (25)			22.5 (30)			30 (4.2)		
HEATING POWER	kW	3.4	3.4	5	5	5.8	5.8	5.8	5.8	6	6.6	7.5	7.5	7.5	7.5	8.3	7.5	8.3	9.1	9.1	10.1	11
TOTAL WATTAGE	kW	8.4	8.4	10	12.5	13.3	13.3	13.3	13.3	13.8	21.6	22.5	22.5	26	26	26.8	30.3	30.8	31.6	39.1	40.1	41
TOTAL WEIGHT	ton	1.6			2.0			2.8			4.2			5.8			7.2			8.1		
MACHINE DIMENSION (LxWxH)	mtr.	1.8 x 1.3 x 2.9			2.0 x 1.6 x 3.2			2.5 x 1.9 x 3.4			3.1 x 1.7 x 4.0			3.1 x 1.8 x 4.2			3.2 x 1.9 x 4.4			3.3 x 2.1 x 4.5		

IDEAL FOR

Small / Medium scale production

Overmoulding with heavy inserts

Overmoulding with multiple cavity.

Increasing operator safety and efficiency.

SALIENT FEATURES

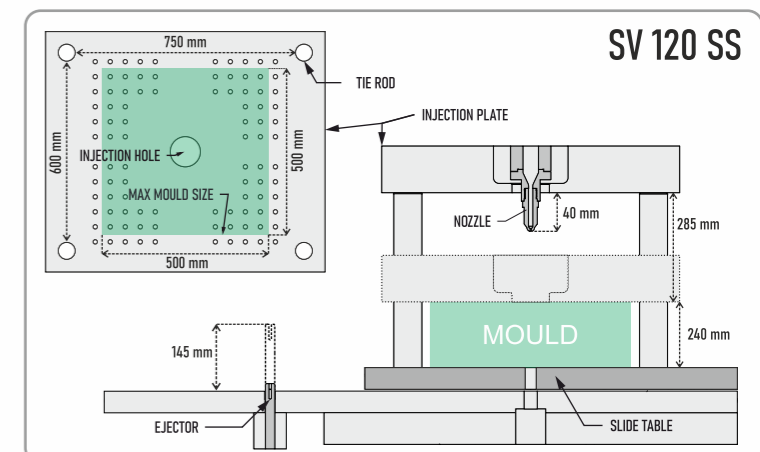
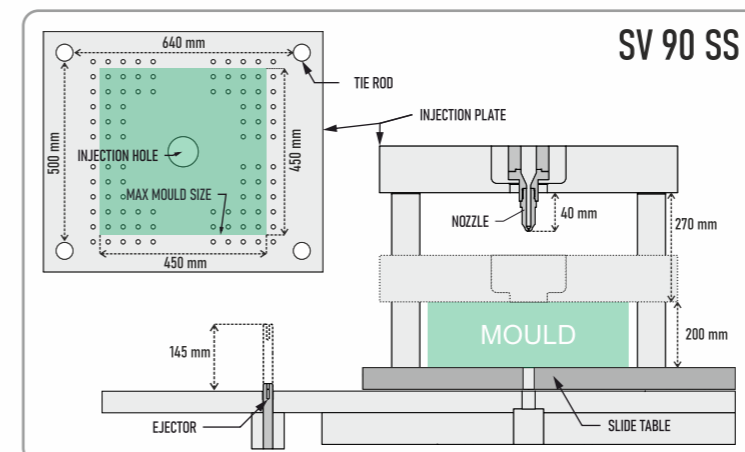
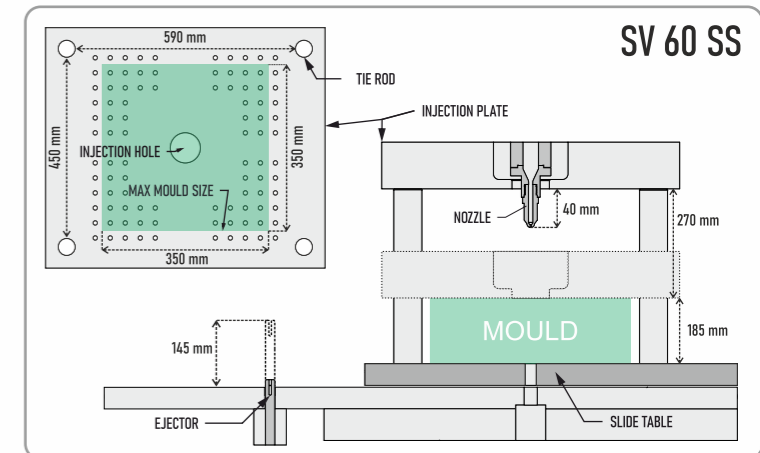
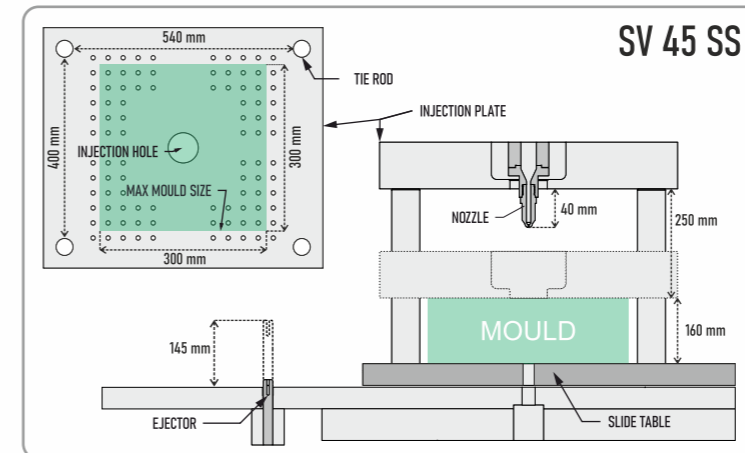
Electronically controlled slide table, moves the mould in and out of clamping unit to facilitate easier removal of finished moulded components.

Increased safety and operator ergonomics, reducing the chances of accidents while also facilitating higher production efficiency

Advanced controller with many robust features and ease of use, designed and programmed with production in mind and industrial needs.

High production efficiency, result of swift GREENDRIVE technology, incorporating advanced hydraulics and mechanical system to achieve max efficiency.

MACHINE TECHNICAL DRAWING

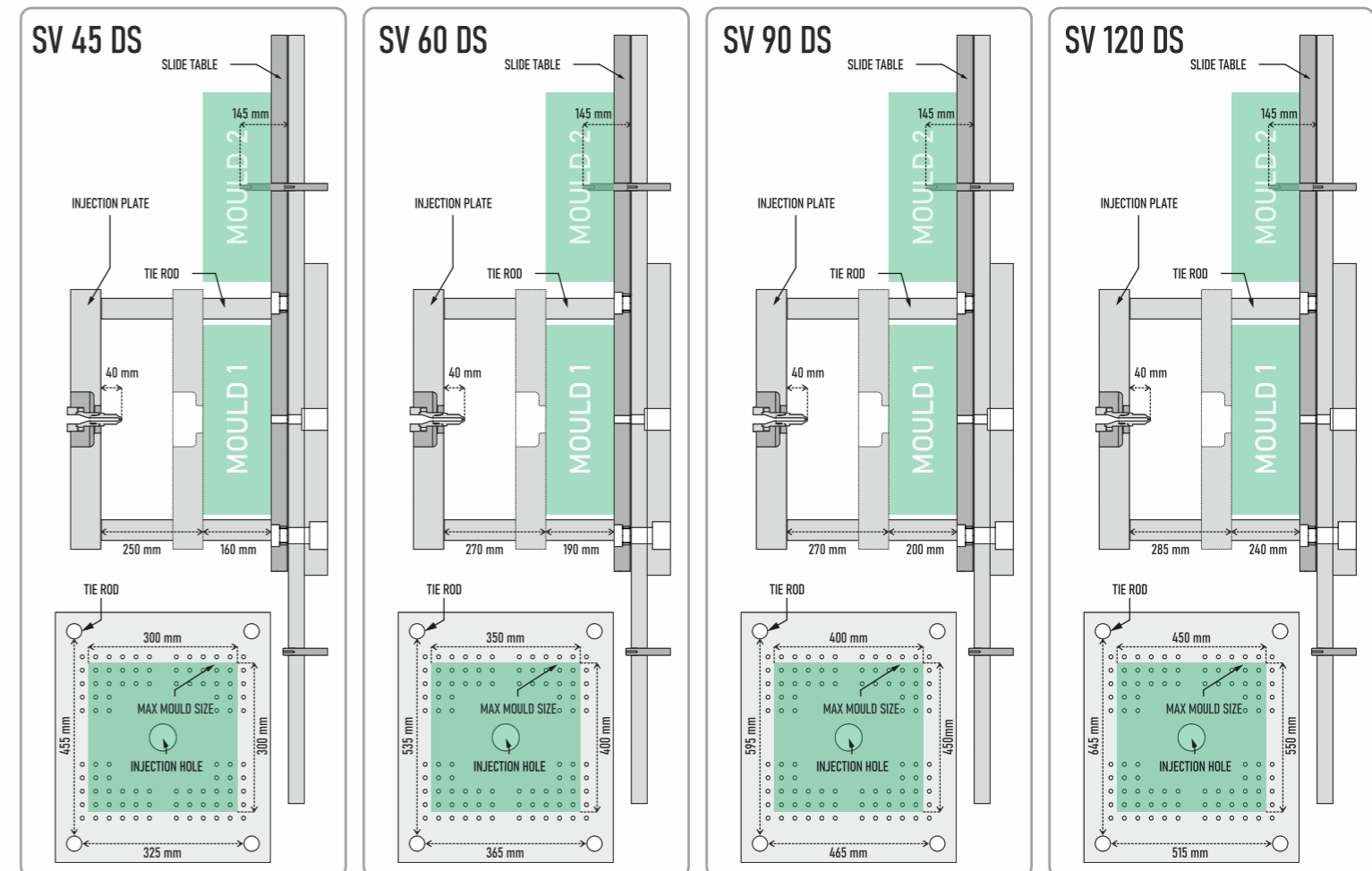


SV DS - SERIES



PARAMETER	UNITS	SV 30 DS			SV 45 DS			SV 60 DS			SV 90 DS			SV 120 DS			SV 160 DS			SV 200 DS		
SCREW DIAMETER	mm	22	25	30	30	32	35	32	35	38	40	42	45	42	45	50	45	50	55	55	60	70
INJECTION PRESSURE	kgf/cm ²	2126	1646	1143	1143	1004	840	1661	1388	1177	1680	1523	1327	1523	1327	1075	1327	1075	888	888	746	548
TH. INJECTION VOLUME	cm ³	47.5	61	88	88	100	120	116	139	164	301	332	381	332	381	471	397	491	593	593	706	961
MAX. INJECTION WEIGHT (P.S)	gram	40	55	79	79	90	108	105	125	148	271	299	343	299	343	424	358	442	534	534	636	865
INJECTION RATE	cm ³ /sec	38	48	94	94	120	114	89	87	158	111	122	140	122	140	173	175	173	262	367	437	595
INJECTION SPEED	mm/s	130			150			100			88			88			131			155		
INJECTION STROKE	mm	125			125			145			240			240			250			250		
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300		
NOZZLE OUT OF PLATEN	mm	40			40			40			40			40			40			40		
CLAMPING FORCE	tf	30			45			60			90			120			160			200		
	mm	200			250			270			270			285			350			350		
MIN. MOULD HEIGHT	mm	160 (235)			160 (235)			190 (265)			200 (300)			240 (340)			300 (400)			300 (400)		
MAX. OPENING	mm	360 (435)			410 (485)			460 (535)			470 (570)			525 (625)			650 (750)			650 (750)		
DISTANCE BTW. TIE ROD	mm	415 x 300			455 x 325			535 x 365			595 x 465			645 x 515			740 x 555			785 x 625		
MAX MOULD SIZE (LxW)	mm	250 x 250			300 x 300			400 x 350			450 x 400			550 x 450			600 x 450			700 x 500		
EJECTOR STROKE	mm	145			145			145			145			145			145			145		
EJECTOR FORCE	tf	2.2			2.2			2.7			4.6			4.6			4.6			4.6		
SYSTEM PRESSURE	lpm	140			140			140			140			140			140			160		
OIL TANK CAPACITY	liters	205			230			280			310			330			350			420		
PUMP MOTOR POWER	kW (hp)	5 (7.5)			7.5 (10)			7.5 (10)			15 (20)			18.5 (25)			22.5 (30)			30 (4.2)		
HEATING POWER	kW	3.4	3.4	5	5	5.8	5.8	5.8	5.8	6	6.6	7.5	7.5	7.5	7.5	8.3	7.5	8.3	9.1	9.1	10.1	11
TOTAL WATTAGE	kW	10.4	10.4	12	14.5	15.3	15.3	15.3	15.3	15.8	22.6	23.5	23.5	28	28	28.8	32.3	32.8	33.6	42.1	42.1	43
TOTAL WEIGHT	ton	1.9			2.7			3.4			4.9			6.3			7.5			8.4		
MACHINE DIMENSION (LxWxH)	mtr.	1.5 x 1.4 x 3.0			2.0 x 1.7 x 3.2			2.3 x 1.9 x 3.4			2.5 x 2.3 x 3.7			2.5 x 2.6 x 4.0			2.6 x 2.7 x 4.2			2.8 x 3.0 x 4.4		

MACHINE TECHNICAL DRAWING



IDEAL FOR

Medium / Large scale production

Overmoulding parts with huge inserts

Large mould sizes with large number of cavities.

Increased production efficiency and safety.

SALIENT FEATURES

Electronically operated dual station slide table, moves the mould in and out of clamping unit to facilitate easier removal of finished moulded components.

Parallel operation of loading and unloading of components at one station and moulding process at other station increases production by upto 1.7 times.

Advanced controller with many robust features and ease of use, designed and programmed with production in mind and industrial needs.

Advanced control system and GREENDRIVE system ensures optimum performance and efficiency saving upto 60% more energy.

SV R2 - SERIES



PARAMETER	UNITS	SV 30 R2			SV 45 R2			SV 60 R2			SV 90 R2			SV 120 R2			SV 160 R2			SV 200 R2		
SCREW DIAMETER	mm	22	25	30	30	32	35	32	35	38	40	42	45	42	45	50	45	50	55	55	60	70
INJECTION PRESSURE	kgf/cm ²	2126	1646	1143	1143	1004	840	1661	1388	1177	1680	1523	1327	1523	1327	1075	1327	1075	888	888	746	548
TH. INJECTION VOLUME	cm ³	47.5	61	88	88	100	120	116	139	164	301	332	381	332	381	471	397	491	593	593	706	961
MAX. INJECTION WEIGHT (P.S)	gram	40	55	79	79	90	108	105	125	148	271	299	343	299	343	424	358	442	534	534	636	865
INJECTION RATE	cm ³ /sec	38	48	94	94	120	114	89	87	158	111	122	140	122	140	173	175	173	262	367	437	595
INJECTION SPEED	mm/s	130			150			100			88			88			131			155		
INJECTION STROKE	mm	125			125			145			240			240			250			250		
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300		
NOZZLE OUT OF PLATEN	mm	40			40			40			40			40			40			40		
CLAMPING FORCE	tf	30			45			60			90			120			160			200		
CLAMPING STROKE	mm	200			250			270			270			285			350			350		
MIN. MOULD HEIGHT	mm	150 (225)			160 (235)			200 (275)			225 (325)			250 (350)			285 (385)			300 (400)		
MAX. OPENING	mm	350 (425)			410 (485)			470 (545)			495 (595)			535 (635)			635 (735)			650 (750)		
DISTANCE BTW. TIE ROD	mm	410 x 300			435 x 385			550 x 415			615 x 475			615 x 525			795 x 570			800 x 595		
MAX MOULD SIZE (LxW)	mm	300 x 250			350 x 300			400 x 350			500 x 400			550 x 450			600 x 475			650 x 515		
TABLE DIAMETER	mm	700			870			985			1150			1250			1370			1450		
EJECTOR STROKE	mm	145			145			145			145			145			145			145		
EJECTOR FORCE	tf	2.2			2.2			2.7			4.6			4.6			4.6			4.6		
SYSTEM PRESSURE	lpm	140			140			140			140			140			140			160		
OIL TANK CAPACITY	liters	265			295			320			370			380			445			480		
PUMP MOTOR POWER	kW (hp)	5 (7.5)			7.5 (10)			7.5 (10)			15 (20)			18.5 (25)			22.5 (30)			30 (4.2)		
HEATING POWER	kW	3.4	3.4	5	5	5.8	5.8	5.8	5.8	6	6.6	7.5	7.5	7.5	7.5	8.3	7.5	8.3	9.1	9.1	10.1	11
TOTAL WATTAGE	kW	10.4	10.4	12	14.5	15.3	15.3	15.3	15.3	15.8	22.6	24.5	24.5	28	28	28.8	32.3	32.8	33.6	39.1	42.1	43
TOTAL WEIGHT	ton	2.2			3.1			3.9			5.5			6.6			7.8			8.9		
MACHINE DIMENSION (LxWxH)	mtr.	2.2 x 1.5 x 3.0			2.3 x 1.6 x 3.2			2.5 x 1.7 x 3.5			2.7 x 1.9 x 4.0			2.8 x 1.9 x 4.2			2.9 x 2.1 x 4.5			3.1 x 2.5 x 4.7		

IDEAL FOR

Medium / large scale production

Reducing manpower and production costs.

Moulds with huge number of cavities for higher production

Increased production output, safety and efficiency.

SALIENT FEATURES

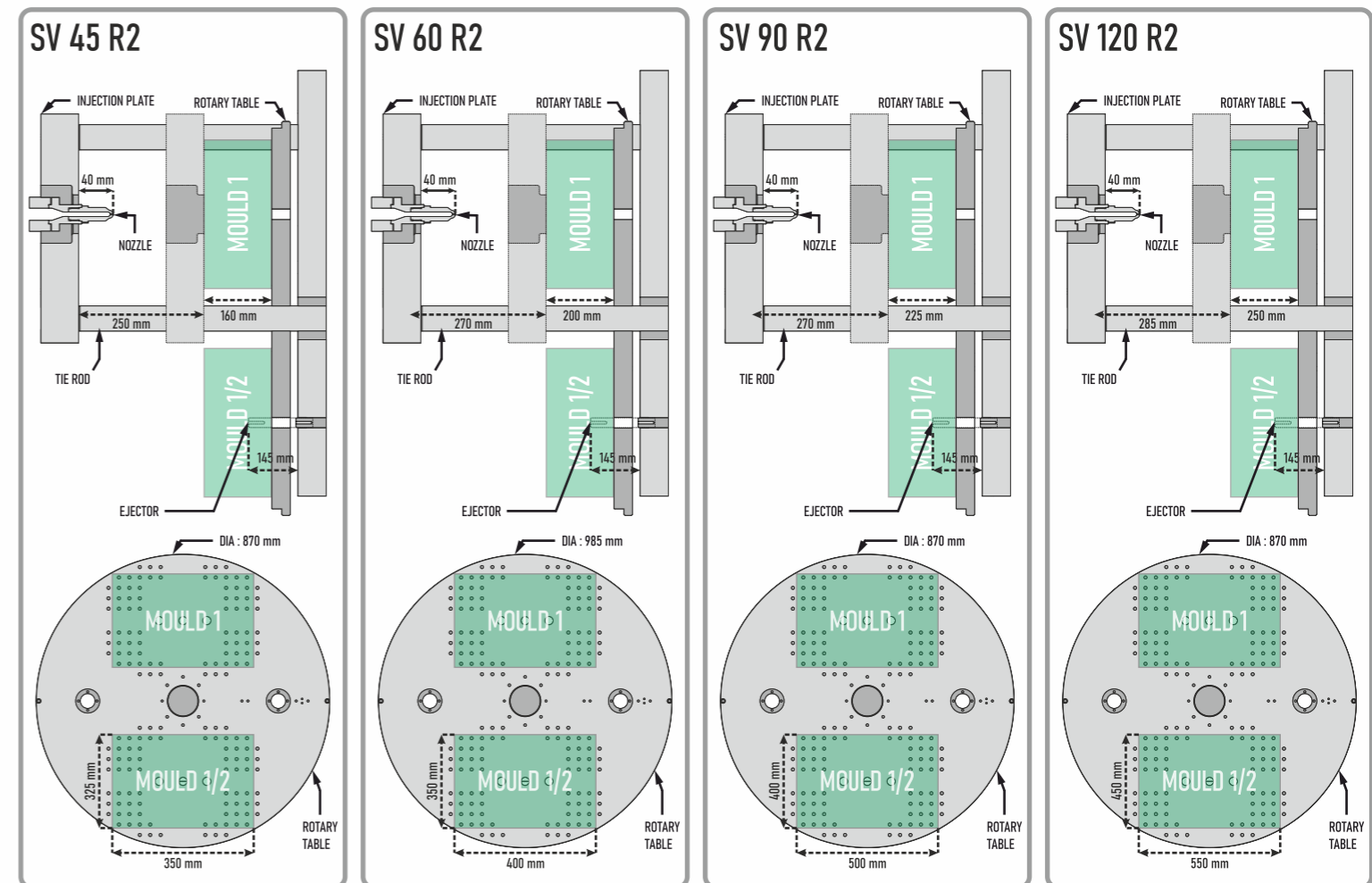
Electronically operated dual station rotary table, moves the mould in and out of clamping unit to facilitate easier removal of finished moulded components.

Parallel operation of loading and unloading of components at one station and moulding process at other station increases production by upto 1.7 times.

Advanced controller with many robust features and ease of use, designed and programmed with production in mind and industrial needs.

Advanced control system and GREENDRIVE system ensures optimum performance and efficiency saving upto 60% more energy.

MACHINE TECHNICAL DRAWING



SV R2 R3 - SERIES



PARAMETER	UNITS	SV 90 R2 R3			SV 120 R2 R3			SV 160 R2 R3			SV 200 R2 R3		
SCREW DIAMETER	mm	40	42	45	42	45	50	45	50	55	55	60	70
INJECTION PRESSURE	kgf/cm ²	1680	1523	1327	1523	1327	1075	1327	1075	888	888	746	548
TH. INJECTION VOLUME	cm ³	301	332	381	332	381	471	397	491	593	593	706	961
MAX. INJECTION WEIGHT (P.S)	gram	271	299	343	299	343	424	358	442	534	534	636	865
INJECTION RATE	cm ³ /sec	111	122	140	122	140	173	175	173	262	367	437	595
INJECTION SPEED	mm/s	88			88			131			155		
INJECTION STROKE	mm	240			240			250			250		
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300			0 - 300		
NOZZLE OUT OF PLATEN	mm	40			40			40			40		
CLAMPING FORCE	tf	90			120			160			200		
CLAMPING STROKE	mm	270			285			350			350		
MIN. MOULD HEIGHT	mm	225 (325)			250 (350)			285 (385)			300 (400)		
MAX. OPENING	mm	495 (595)			535 (635)			635 (735)			650 (750)		
DISTANCE BTW. TIE ROD	mm	615 x 475			615 x 525			795 x 570			800 x 595		
MAX MOULD SIZE (LxW)	mm	400 x 300			500 x 350			550 x 400			575 x 450		
TABLE DIAMETER	mm	1150			1250			1370			1450		
EJECTOR STROKE	mm	145			145			145			145		
EJECTOR FORCE	tf	4.6			4.6			4.6			4.6		
SYSTEM PRESSURE	lpm	140			140			140			160		
OIL TANK CAPACITY	liters	370			380			445			480		
PUMP MOTOR POWER	kW (hp)	15 (20)			18.5 (25)			22.5 (30)			30 (4.2)		
HEATING POWER	kW	6.6	7.5	7.5	7.5	7.5	8.3	7.5	8.3	9.1	9.1	10.1	11
TOTAL WATTAGE	kW	24.6	26.5	26.5	30	30	31.8	34.3	34.8	35.6	41.1	44.1	45
TOTAL WEIGHT	ton	5.5			6.6			7.8			8.9		
MACHINE DIMENSION (LxWxH)	mtr.	2.7 x 1.9 x 4.2			2.8 x 2.0 x 4.3			2.9 x 2.3 x 4.5			3.0 x 2.6 x 4.7		

IDEAL FOR

Medium / Large scale production

Reducing production times and increasing production.

Moulds with huge number of cavities for higher production

Increased production output, safety and efficiency.

SALIENT FEATURES

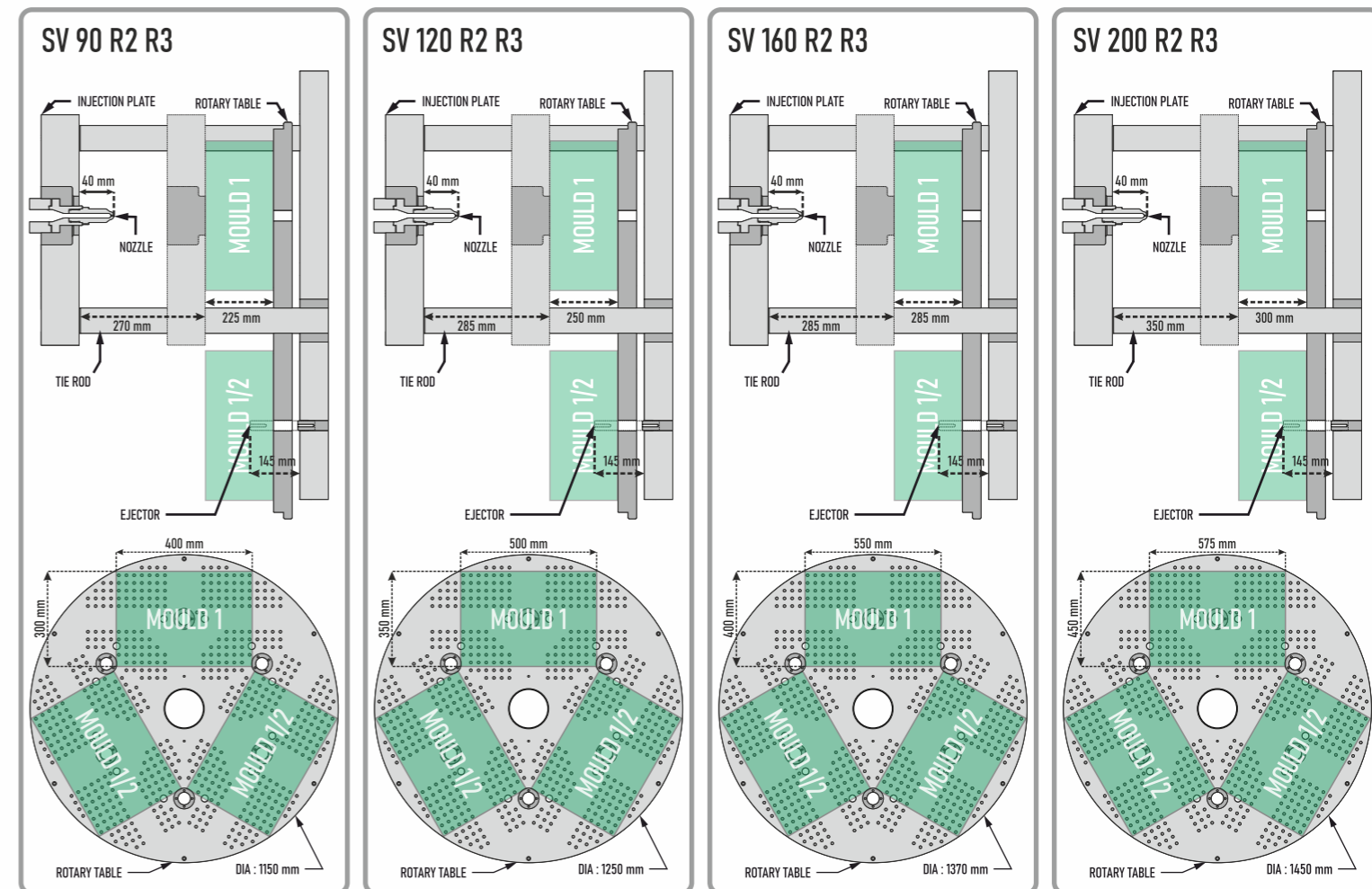
Electronically operated three station rotary table, moves the mould in and out of clamping unit to facilitate easier removal of finished moulded components.

Parallel operation of loading and unloading of components at separate station and moulding process at other station increases production by upto 1.7 times.

3 station operation eliminates machine idle times, station 1 for placing inserts, station 2 for moulding process, and station 3 for removal of moulded parts.

Machine can be operated in 3 station as well as 2 station operation mode depending on your production requirements.

MACHINE TECHNICAL DRAWING



SV R2C - SERIES



IDEAL FOR

Large scale production

Overmoulding with 2 colors or 2 materials

Full automated production operation.

Components with 2nd material on one side.

SALIENT FEATURES

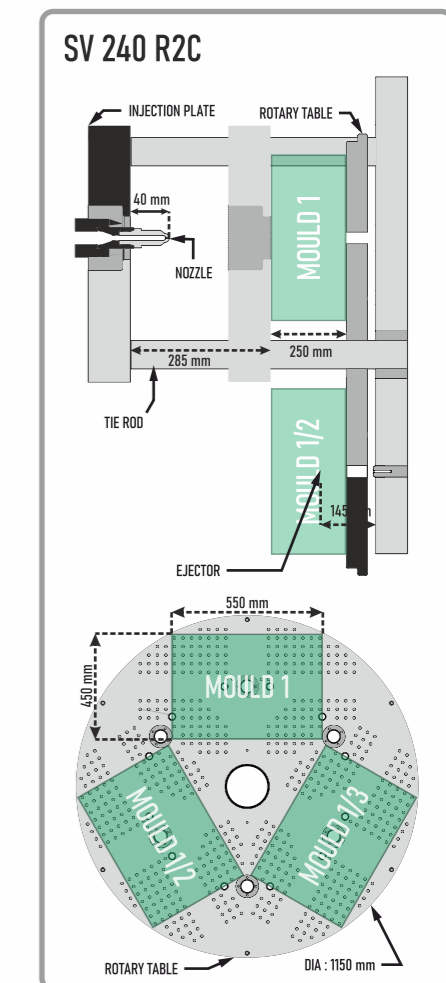
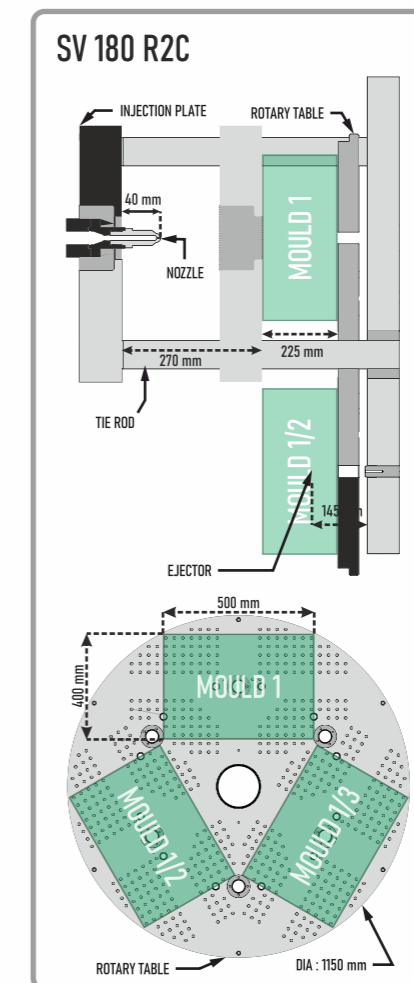
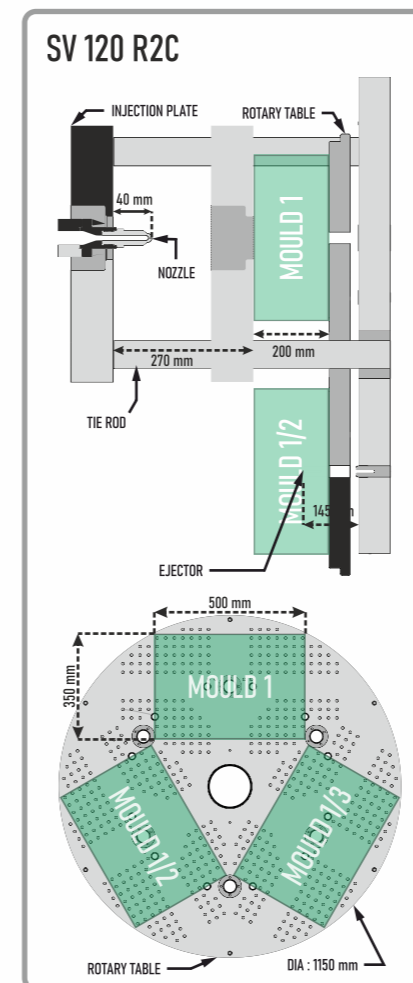
Electronically operated three station rotary table, moves the mould in and out of clamping unit to facilitate easier removal of finished moulded components.

Two independent injection for individual control of injection pressure and speed, also providing individual material temperature control.

Two independent clamping units provide total independent control of clamping force and mould height adjustment also opening speed and timing.

Advanced controller with total independent control for both injection and clamping units, while also providing support for Robots and other automation.

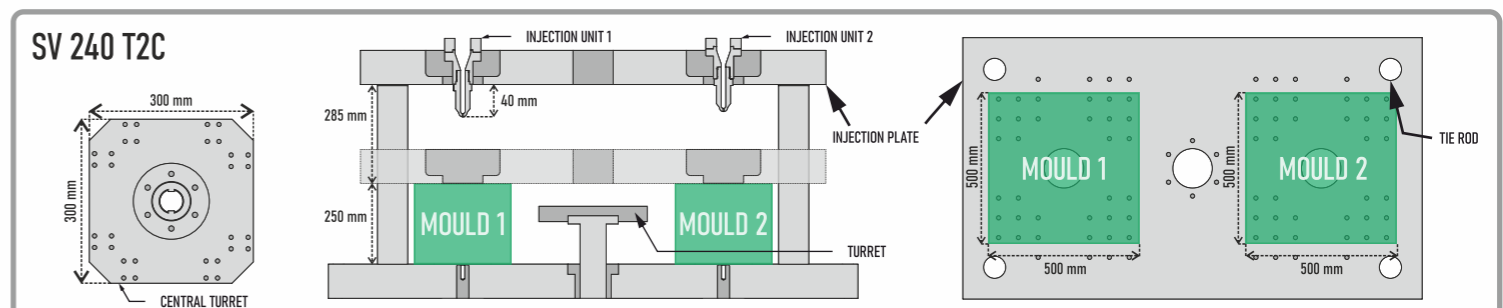
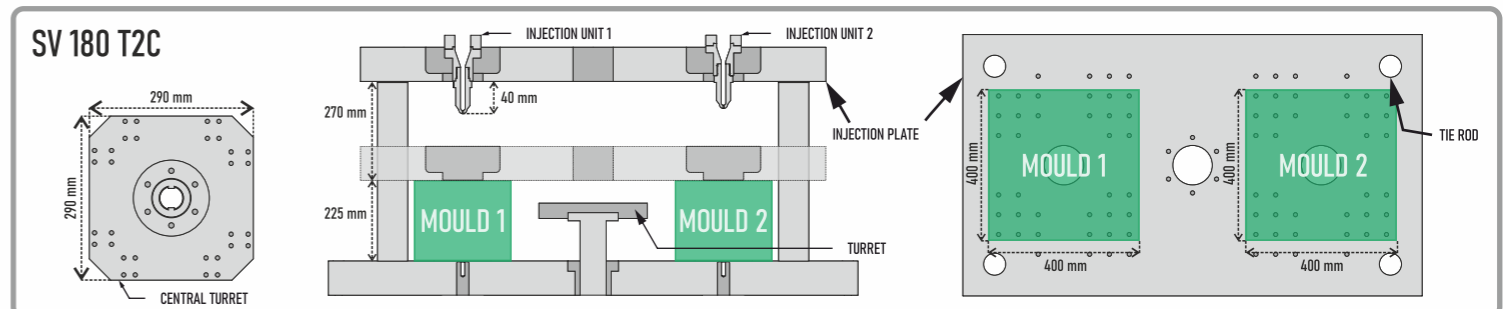
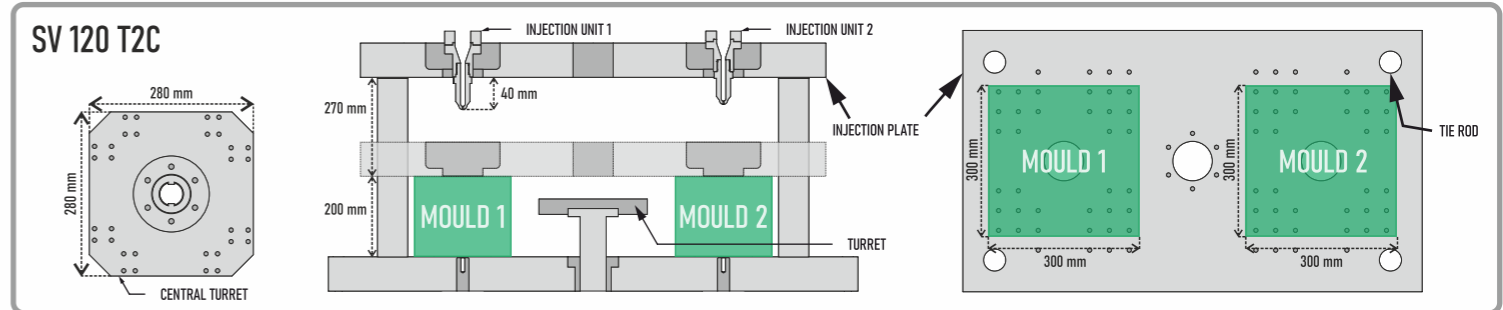
PARAMETER	UNITS	SV 120 R2C						SV 180 R2						SV 240 R2					
		UNIT 1			UNIT 2			UNIT 1			UNIT 2			UNIT 1			UNIT 2		
INJECTION UNIT	UNIT																		
SCREW DIAMETER	mm	32	35	38	32	35	38	40	42	45	40	42	45	42	45	50	42	45	50
INJECTION PRESSURE	kgf/cm ²	1661	1388	1177	1661	1388	1177	1680	1523	1327	1680	1523	1327	1523	1327	1075	1523	1327	1075
TH. INJECTION VOLUME	cm ³	116	139	164	116	139	164	301	332	381	301	332	381	332	381	471	332	381	471
MAX. INJECTION WEIGHT (P.S)	gram	105	125	148	105	125	148	271	299	343	271	299	343	299	343	424	299	343	424
INJECTION RATE	cm ³ /sec	89	87	158	89	87	158	111	122	140	111	122	140	122	140	173	122	140	173
INJECTION SPEED	mm/s	100			100			88			88			88			88		
INJECTION STROKE	mm	145			145			240			240			240			240		
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300		
NOZZLE OUT OF PLATEN	mm	40			40			40			40			40			40		
CLAMPING FORCE	tf	120						180						240					
CLAMPING STROKE	mm	270						270						285					
MIN. MOULD HEIGHT	mm	200 (275)						225 (325)						250 (350)					
MAX. OPENING	mm	470 (545)						495 (595)						535 (635)					
DISTANCE BTW. TIE ROD	mm	550 x 415						615 x 475						615 x 525					
MAX MOULD SIZE (LxW)	mm	500 x 350						500 x 400						550 x 450					
EJECTOR STROKE	mm	145						145						145					
EJECTOR FORCE	tf	2.7						4.6						4.6					
SYSTEM PRESSURE	lpm	140						140						140					
OIL TANK CAPACITY	liters	320						445						480					
PUMP MOTOR POWER	kW (hp)	18.5 (25)						22.5 (30)						30 (40.2)					
HEATING POWER	kW	5.8	5.8	6	5.8	5.8	6	6.6	7.5	7.5	6.6	7.5	7.5	7.5	7.5	8.3	7.5	7.5	8.3
TOTAL WATTAGE	kW	13.3	13.3	13.8	13.3	13.3	13.8	21.6	22.5	22.5	21.6	22.5	22.5	26	26	26.8	26	26	26.8
TOTAL WEIGHT	ton	5.9						8.5						12					
MACHINE DIMENSION (LxWxH)	mtr.	2.5 x 1.7 x 3.5						2.8 x 2.4 x 4.0						3.0 x 2.8 x 4.2					



SV T2C - SERIES



PARAMETER	UNITS	SV 120 T2C						SV 180 T2C						SV 240 T2C						
		UNIT 1			UNIT 2			UNIT 1			UNIT 2			UNIT 1			UNIT 2			
INJECTION UNIT	UNIT																			
SCREW DIAMETER	mm	32	35	38	32	35	38	40	42	45	40	42	45	42	45	50	42	45	50	
INJECTION PRESSURE	kgf/cm ²	1661	1388	1177	1661	1388	1177	1680	1523	1327	1680	1523	1327	1523	1327	1075	1523	1327	1075	
TH. INJECTION VOLUME	cm ³	116	139	164	116	139	164	301	332	381	301	332	381	332	381	471	332	381	471	
MAX. INJECTION WEIGHT (P.S)	gram	105	125	148	105	125	148	271	299	343	271	299	343	299	343	424	299	343	424	
INJECTION RATE	cm ³ /sec	89	87	158	89	87	158	111	122	140	111	122	140	122	140	173	122	140	173	
INJECTION SPEED	mm/s	100			100			88			88			88			88			
INJECTION STROKE	mm	145			145			240			240			240			240			
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			0 - 300			
NOZZLE OUT OF PLATEN	mm	40			40			40			40			40			40			
CLAMPING FORCE	tf	120						180						240						
CLAMPING STROKE	mm	270						270						285						
MIN. MOULD HEIGHT	mm	200 (275)						225 (325)						250 (350)						
MAX. OPENING	mm	470 (545)						495 (595)						535 (635)						
DISTANCE BTW. TIE ROD	mm	800 x 375						1000 x 535						1200 x 650						
MAX MOULD SIZE (LxW)	mm	300 x 300						400 x 400						500 x 500						
EJECTOR STROKE	mm	145						145						145						
EJECTOR FORCE	tf	2.7						4.6						4.6						
SYSTEM PRESSURE	lpm	140						140						140						
OIL TANK CAPACITY	liters	320						370						380						
PUMP MOTOR POWER	kW (hp)	18.5 (25)						15 (20)						18.5 (25)						
HEATING POWER	kW	5.8	5.8	6	5.8	5.8	6	6.6	7.5	7.5	6.6	7.5	7.5	7.5	7.5	8.3	7.5	7.5	8.3	
TOTAL WATTAGE	kW	13.3	13.3	13.8	13.3	13.3	13.8	21.6	22.5	22.5	21.6	22.5	22.5	26	26	26.8	26	26	26.8	
TOTAL WEIGHT	ton	5.8						7.6						11.2						
MACHINE DIMENSION (LxWxH)	mtr.	2.0 x 1.8 x 3.6						2.8 x 2.4 x 4.0						3.5 x 2.7 x 4.6						



IDEAL FOR

Large scale production

Overmoulding with 2 colors or 2 materials

Overmoulding on pliers, Grips, knives, screwdrivers.

Components with 2 materials all around body.

SALIENT FEATURES

Electrically operated central turret system carries the moulded part from one station to another station making the process of 2 color/material moulding total automatic.

Two independent injection unit provide total separate control for the injection process, from operation mode, temperature control, injection shot weight control and much more.

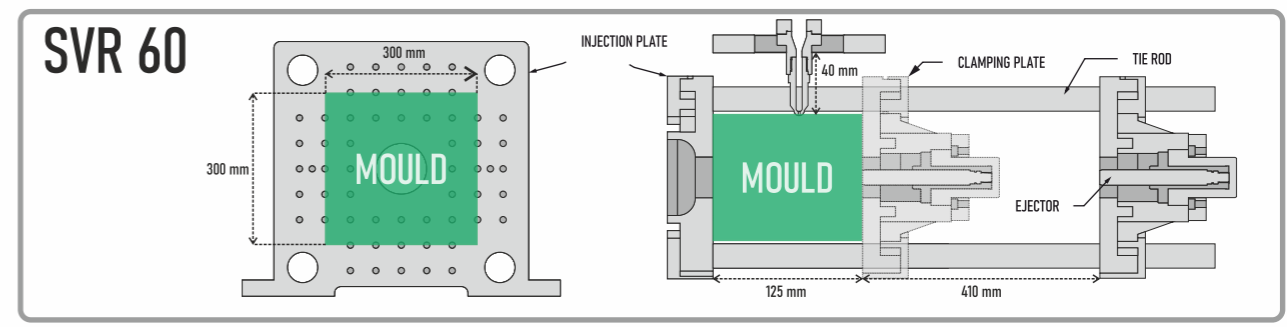
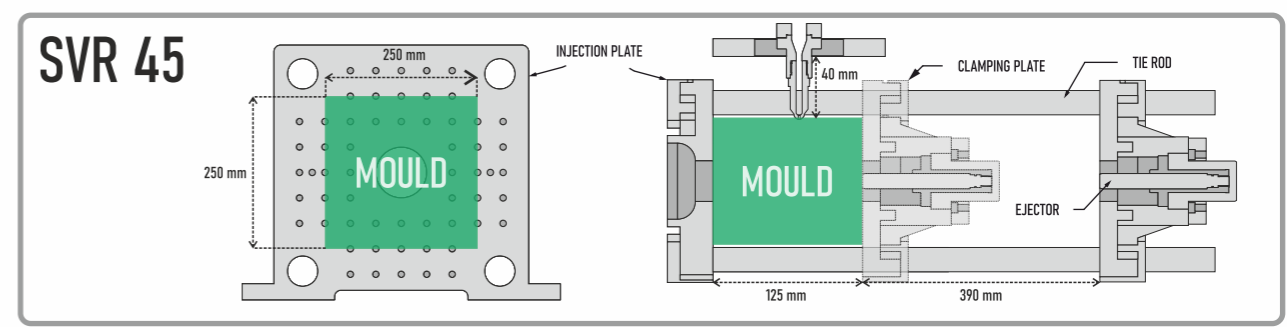
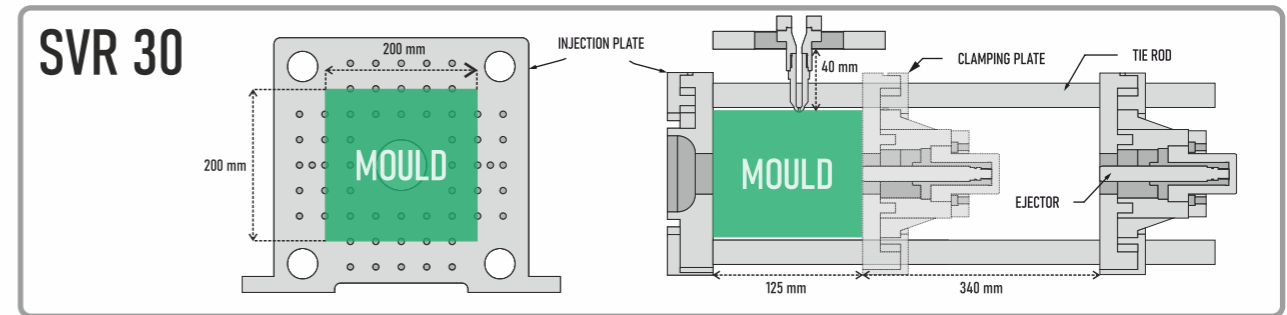
Singular clamping unit control with two ram type clamping cylinders provide perfect clamping pressure to both the moulds and reduce the opening and closing time for moulds.

Advanced controller with precise control for all parameters, while also providing advanced production data and support for robots and other automation, and also user friendly.

SV R - SERIES



PARAMETER	UNITS	SVR 30			SVR 45			SVR 60		
SCREW DIAMETER	mm	22	25	30	30	32	35	32	35	38
INJECTION PRESSURE	kgf/cm ²	2126	1646	1143	1143	1004	840	1661	1388	1177
TH. INJECTION VOLUME	cm ³	47.5	61	88	88	100	120	116	139	164
MAX. INJECTION WEIGHT (P.S)	gram	40	55	79	79	90	108	105	125	148
INJECTION RATE	cm ³ /sec	38	48	94	94	120	114	89	87	158
INJECTION SPEED	mm/s	130			150			100		
INJECTION STROKE	mm	125			125			145		
SCREW ROTATION SPEED	rpm	0 - 300			0 - 300			0 - 300		
NOZZLE OUT OF PLATEN	mm	40			40			40		
CLAMPING FORCE	tf	30			45			60		
CLAMPING STROKE	mm	340			390			410		
MIN. MOULD HEIGHT	mm	125			125			125		
MAX. OPENING	mm	465			515			535		
DISTANCE BTW. TIE ROD	mm	375 x 325			425 x 300			500 x 355		
MAX MOULD SIZE (LxW)	mm	200 x 200			250 x 250			300 x 300		
EJECTOR STROKE	mm	40			40			40		
EJECTOR FORCE	tf	2.2			2.2			2.7		
SYSTEM PRESSURE	lpm	140			140			140		
OIL TANK CAPACITY	liters	150			180			200		
PUMP MOTOR POWER	kW (hp)	5 (7.5)			7.5 (10)			7.5 (10)		
HEATING POWER	kW	3.4	3.4	5	5	5.8	5.8	5.8	5.8	6
TOTAL WATTAGE	kW	8.4	8.4	10	12.5	13.3	13.3	13.3	13.3	13.8
TOTAL WEIGHT	ton	1.6			2.1			2.5		
MACHINE DIMENSION (LxWxH)	mtr.	1.9 x 1.2 x 2.4			2.0 x 1.3 x 2.7			2.5 x 1.4 x 3.4		



IDEAL FOR

Small / Medium scale production

Single color/material components

Components with only direct plastic moulding

Plastic components with thin wall structure.

SALIENT FEATURES

Horizontal ram type clamping unit for fast, smooth and stable clamping pressure through out the mould clamping area.

Vertical injection with multiple zone temperature and injection control, also with precise injection force and speed control.

Advanced controller with precise machine parameter control, also providing advanced production data and automation integration options.

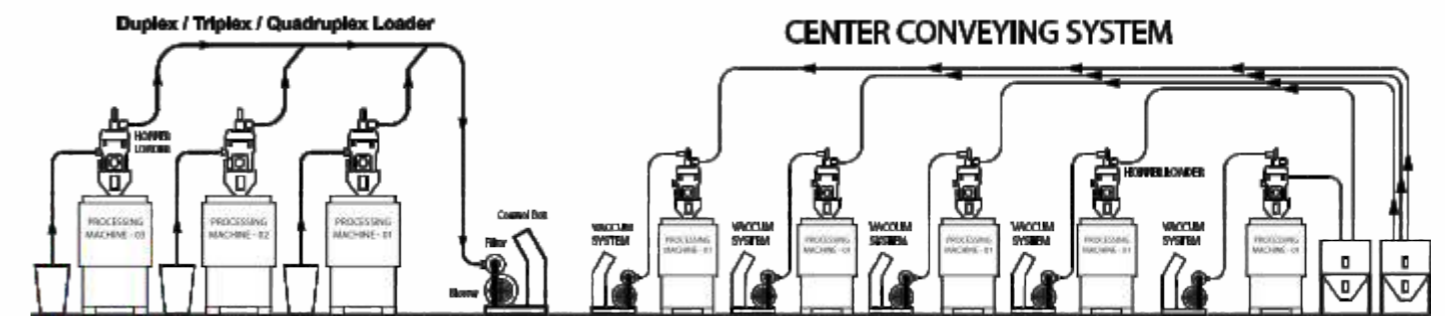
High production efficiency, result of swift GREENDRIVE technology, incorporating advanced hydraulics and mechanical system to achieve max efficiency.

HOT AIR DRYER - SEHD SERIES



MODEL	CAPACITY (Liters.)	HEIGHT (mm)	HEATING POWER (killo watt)	BLOWING POWER (watt)	POWER SUPPLY (Volts)
SEHD - 25	25	800	2.1	90	230V, 1φ
SEHD - 50	50	1000	2.7	90	230V, 1φ
SEHD - 100	100	1100	3.9	200	415V, 3φ
SEHD - 150	150	1200	6.0	250	415V, 3φ
SEHD - 200	200	1350	6.0	250	415V, 3φ
SEHD - 300	300	1450	9.0	400	415V, 3φ
SEHD - 400	400	1600	9.0	400	415V, 3φ
SEHD - 800	800	2000	18	750	415V, 3φ
SEHD - 1200	1200	2100	18	1700	415V, 3φ
SEHD - 2500	2500	2500	24	2200	415V, 3φ
SEHD - 3500	3500	3000	36	3700	415V, 3φ

HOT AIR DRYER - SEHD SERIES



MODEL	OUTPUT (Kg/Hr)	CONVEYING OUTPUT	BLOWER CAPACITY (Killo watt)	POWER SUPPLY (VOLTS)	CONTROLLER
S - 175	50 - 100	6	0.8	230V, 1φ	MICRO PROCESSOR
S - 375	150 - 200	6	0.85	415V, 3φ	MICRO PROCESSOR
S - 1500	200 - 300	15	1.5	415V, 3φ	MICRO PROCESSOR
S - 2200	300 - 500	30	2.2	415V, 3φ	MICRO PROCESSOR
S - 4000	500 - 800	30	4.0	415V, 3φ	MICRO PROCESSOR
S - DUPLEX	100 (x2)	6 (x2)	1.6	415V, 3φ	MICRO PROCESSOR
S- TRIPLEX	100 (x3)	6 (x3)	2.2	415V, 3φ	MICRO PROCESSOR
S - QUAD	100 (x4)	6 (x4)	4	415V, 3φ	MICRO PROCESSOR

MACHINE ORDER CONFIGURATION

CUSTOMER NAME :

CUSTOMER CONTACT :

RECOMMENDED MODEL :

REQUIRED MATERIAL SHOT WEIGHT :

MOULD SIZE :

MOULD CAVITY NUMBER :

MATERIAL USED :

PRODUCTION AIM :

COMPONENT DETAILS :

MACHINE OPTIONAL EXTRA

- > ELECTRICAL ENERGY METER FOR ELECTRICAL READING AND PRODUCTION CALCULATION PER UNIT ENERGY USED.
- > BIMETALLIC SCREW BARREL FOR ENGINEERING MATERIALS.
- > THERMOCOUPLE IN FEEDING ZONE FOR TEMPERATURE READING OF MATERIAL ENTERING BARREL.
- > THERMOSET SCREW BARREL FOR USE WITH THERMOSET MATERIALS.
- > SCREW BARREL FOR USE WITH PVC / RPVC MATERIALS.
- > HYDRAULIC PROPORTIONAL VALVE FOR MOULD OPEN AND CLOSE
- > HYDRAULIC CORE (MAX 3 CORE)
- > PNEUMATIC CORE (MAX 3 CORE)
- > ELECTRONIC CORE (MAX 3 CORE)
- > EUROMAP CONNECTORS FOR ROBOT INTERFACE.
- > MACHINE ELECTRICAL PANNEL DOOR CLOSE SENSOR.
- > LNC In6800 CONTROLLER WITH 10 INCH SCREEN.
- > LNC CONTROLLER WITH TOUCH SCREEN.
- > CUSTOMIZED MACHINE CLAMPING AREA ACCORDING TO MOULD SIZE.
- > UPS POWER BACKUP FOR HMI (MAIN CONTROLLER DISPLAY).
- > SAFETY LIGHT CURTAINS FOR BACK DOOR OPENING NEAR CLAMPING AREA.

MATERIAL	DENSITY gm/cc	PROCESSING TEMPERATURE °C	CLARITY T / O / C	TENSILE STRENGTH AT YIELD kg?cm	ELONGATION AT BREAK %	SOFRENING TEMPERATURE VICAT 0°C	HEAT DEFLECTION 0°C AT 66 PSI
LDPE	0.92	160 - 210	TRANSLUCENT	95	200	85	50
LLDPE	0.92	180 - 260	TRANSLUCENT	100	100	80	45
HDPE	0.96	190 - 280	TRANSLUCENT OPAQUE	250	500	126	75
PP Copolymer	0.90	190 - 300	TRANSLUCENT CLEAR	290	500	150	90
PP Homopolymer	0.90	190 - 300	TRANSLUCENT	310	200	152	96
PS (GPPS)	1.05	180 - 220	CLEAR	420	5	102	85
HIPS	1.05	180 - 220	TRANSLUCENT OPAQUE	275	45	88	83
ABS	1.05	210 - 270	OPAQUE	440	20	95	86
SAN	1.04	220 - 270	CLEAR	650	4	107	95
Polycarbonate (PC)	1.2	260 - 310	CLEAR	680	150	150	144
Nylon - 6	1.13	240 - 270	TRANSLUCENT OPAQUE	740	40	215	165
Nylon - 66	1.13	270 - 300	TRANSLUCENT OPAQUE	1240	300	245	238
RPVC	1.45	150 - 210	CLEAR	440	20	100	76
Acrylics	1.19	200 - 260	CLEAR	700	3	89	90
PBT	1.31	220 - 260	OPAQUE	530	300	172	155
Polyurethane	1.20	185 - 240	CLEAR	520	510	116	74
Acetal	1.41	180 - 240	OPAQUE	700	55	104	172
TPE	1.2	180 - 240	OPAQUE	310	375	195	111
PET	1.38	260 - 310	CLEAR	880	70	110	85

NOTE :
