

Advanced **DHARTI SERIES**

Stronger | Heavier | Durable

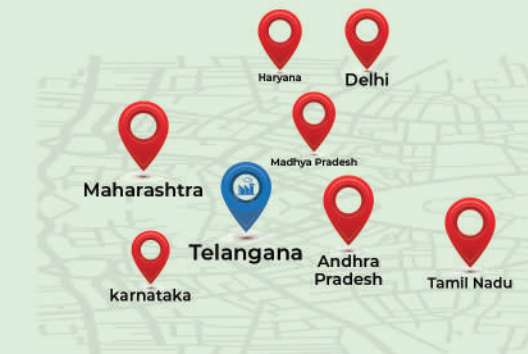
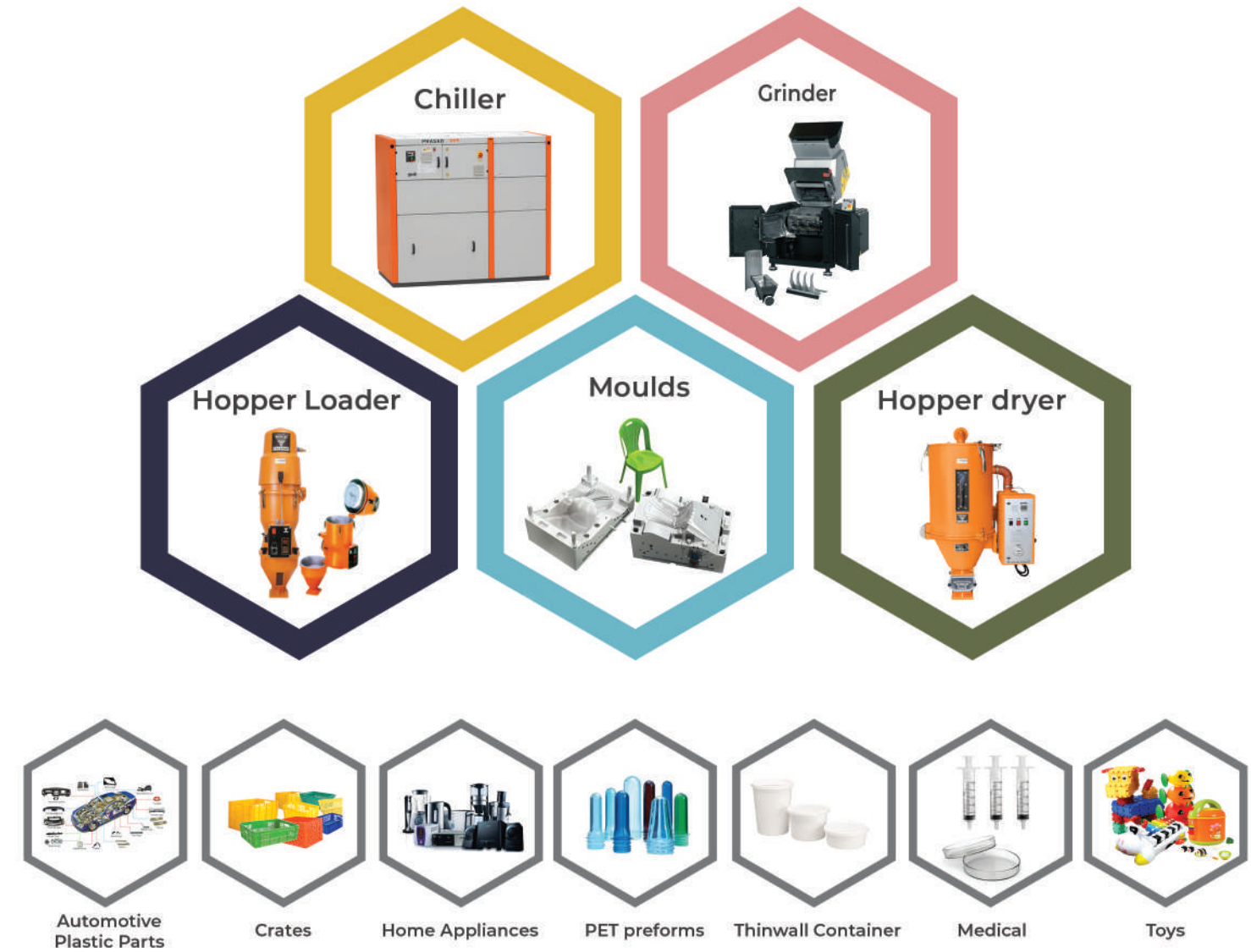
98 Ton to 3400 Ton



Mfg. of
**Plastic Injection
Moulding Machines**

SPECIALIST IN PLASTIC STARTUP PROJECTS

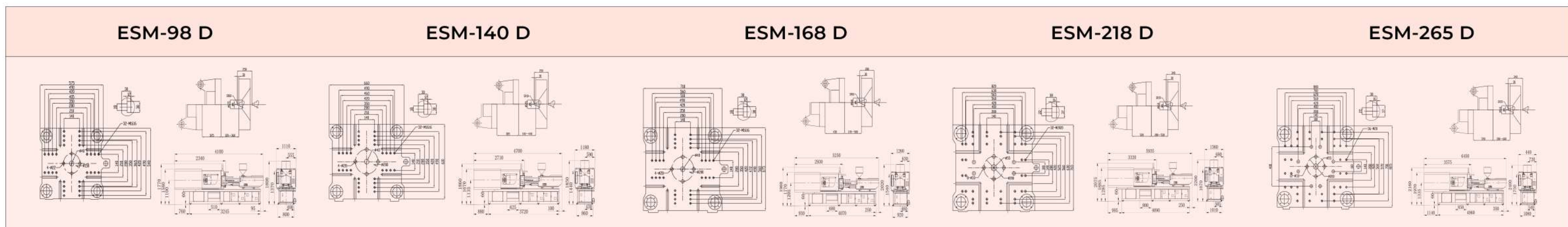
AUXILIARY EQUIPMENT



FACTORY & REGD OFFICE

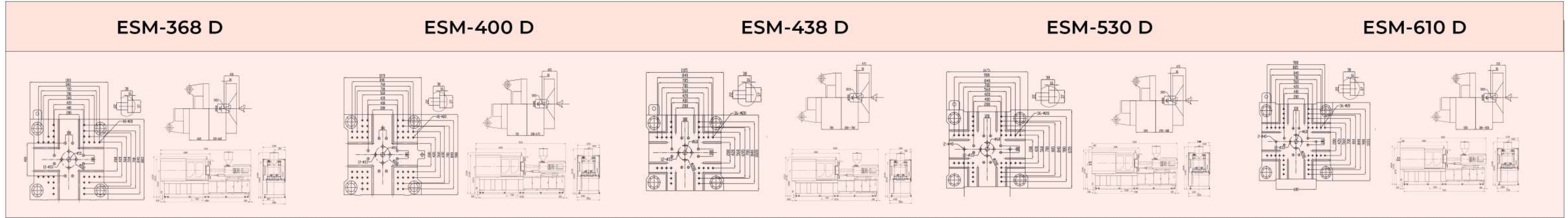
	UNITS	ESM-98 D			ESM-140 D			ESM-168 D			ESM-218 D			ESM-265 D		
INJECTION UNIT																
SCREW TYPE		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
SCREW DIAMETER	mm	32	35	38	38	40	45	40	45	48	45	50	55	55	60	65
SCREW L/D RATIO	L/D	24.1	22	20.3	23.2	22	19.6	24.8	22	20.6	24.4	22	20	24	22	20.3
SHOT VOLUME	cm ³	133.7	160	189	214.8	238	301.2	313.7	397.4	451.7	460	569	688	655.4	780	915.4
INJECTION PRESSURE	MPa	232.1	194	165	199.4	180	142.2	191.1	151	132.7	227.5	184.3	152.3	184.5	155	132.1
SHOT WEIGHT	Gms	122	146	172	195	217	274	285	361	411	419	518	627	596	710	833
SCREW SPEED	Rpm	210			200			208			180			190		
CLAMPING UNIT																
CLAMPING FORCE	KN	980			1400			1680			2180			2650		
TOGGLE STROKE	mm	320			385			430			520			590		
SPACE BETWEEN TIE BARS	mm	365*360			460*425			510*472			565*525			620*570		
MAX MOULD HEIGHT	mm	360			440			500			530			600		
MIN MOULD HEIGHT	mm	120			140			170			200			200		
EJECTOR STROKE	mm	100			115			130			150			150		
EJECTOR FORCE	KN	38			38			38			70			70		
DIE HOLE DIAMETER	mm	125			125			160			160			160		
OTHER																
SYSTEM PRESSURE	MPa	16			16			16			16			16		
MOTOR POWER	KW	9			13			15			18.5			22		
HEATER POWER	KW	10			12.7			13.2			16.3			24.7		
OILTANK CAPACITY	L	125			170			210			230			300		
MACHINE WEIGHT	Ton	2.8			3.9			5			7			9		
MACHINE DIMENSIONS (LWXH)	M	4.34*1.24*1.85			4.7*1.18*1.85			5.25*1.26*2.02			5.94*1.36*2.2			6.45*1.44*2.4		

****Note:** The technical specifications can be changed without prior notice



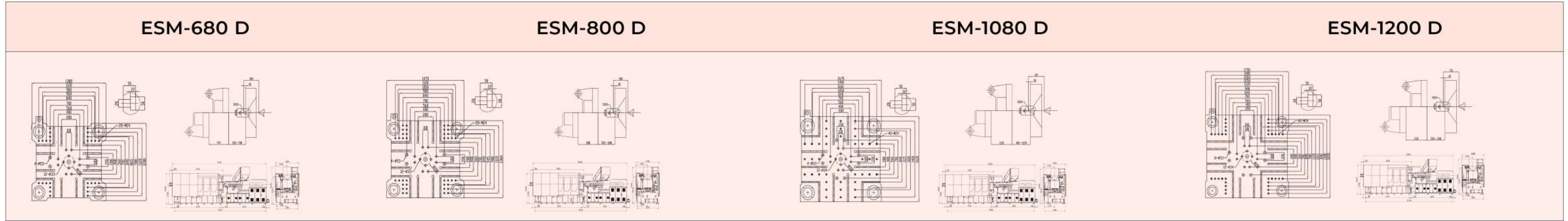
	UNITS	ESM-368 D			ESM-400 D			ESM-438 D			ESM-530 D			ESM-610 D		
INJECTION UNIT																
SCREW TYPE		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
SCREW DIAMETER	mm	65	70	75	70	75	80	75	80	85	80	85	90	85	90	95
SCREW L/D RATIO	L/D	23.7	22	20.5	23.6	22	20.6	23.4	22	20.7	23.4	22	20.8	23.4	22	20.8
SHOT VOLUME	cm3	1177.8	1366	1568.1	1446.9	1661	1889.8	1727.1	1965	2218.3	1964.7	2218	2486.6	2388	2678	2938
INJECTION PRESSURE	MPa	181.7	156.7	136.5	179.1	156	137.1	155.9	137	121.4	168	148.8	132.7	178.3	159	142.7
SHOT WEIGHT	Gms	1072	1243	1427	1317	1512	1720	1572	1788	2019	1788	2018	2263	2174	2437	2715
SCREW SPEED	Rpm	144			144			194			152			126		
CLAMPING UNIT																
CLAMPING FORCE	KN	3680			4000			4380			5300			6100		
TOGGLE STROKE	mm	660			710			780			840			850		
SPACE BETWEEN TIE BARS	mm	705*590			760*690			785*695			840*805			885*810		
MAX MOULD HEIGHT	mm	660			675			780			800			850		
MIN MOULD HEIGHT	mm	210			280			280			290			300		
EJECTOR STROKE	mm	170			170			170			225			225		
EJECTOR FORCE	KN	90			90			90			152			152		
DIE HOLE DIAMETER	mm	160			200			200			200			200		
OTHER																
SYSTEM PRESSURE	MPa	16			16			16			16			16		
MOTOR POWER	KW	37			37			45			45			45		
HEATER POWER	KW	27.9			33.6			33.6			38.3			42		
OILTANK CAPACITY	L	600			700			750			900			900		
MACHINE WEIGHT	Ton	13			16			18			20			25		
MACHINE DIMENSIONS (LWXH)	M	7.45*1.9*2.46			7.67*1.95*2.53			8.3*2.0*2.53			8.6*2.05*3.0			9.2*2.15*3.0		

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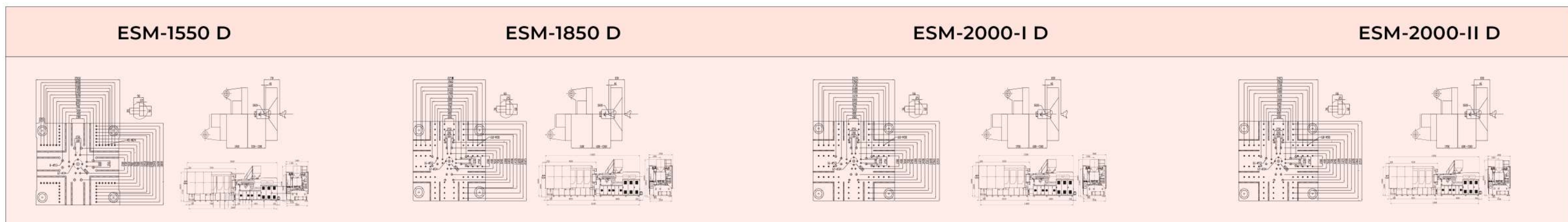
	UNITS	ESM-680 D				ESM-800 D				ESM-1080 D				ESM-1200 D			
INJECTION UNIT																	
SCREW TYPE		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
SCREW DIAMETER	mm	85	90	95	100	95	100	105	115	100	110	120	130	105	115	125	135
SCREW L/D RATIO	L/D	23.3	22	20.8	19.8	23.3	22	21	19.1	24.2	22	20.2	18.6	24	22	20.2	18.7
SHOT VOLUME	cm3	2790	3128	3486	3862	3138.5	3477.6	3834	4599.1	4238	5129	6103	7163	4673.5	5606.1	6623.4	7725.6
INJECTION PRESSURE	MPa	178	159	143	120	158.8	143.4	130	108.4	184	152.2	127.8	109	191.1	159.3	134.9	115.6
SHOT WEIGHT	Gms	2567	2846	3207	3553	2887	3199	3527	4231	3856	4667	5553	6518	4300	5158	6094	7108
SCREW SPEED	Rpm	144				104				105				117			
CLAMPING UNIT																	
CLAMPING FORCE	KN	6800				8000				10800				12000			
TOGGLE STROKE	mm	970				1000				1220				1310			
SPACE BETWEEN TIE BARS	mm	960*865				1050*945				1160*1115				1250*1165			
MAX MOULD HEIGHT	mm	900				1000				1250				1300			
MIN MOULD HEIGHT	mm	320				350				480				530			
EJECTOR STROKE	mm	265				265				350				350			
EJECTOR FORCE	KN	212				212				246				246			
DIE HOLE DIAMETER	mm	200				250				250				250			
OTHER																	
SYSTEM PRESSURE	MPa	16				16				16				16			
MOTOR POWER	KW	30+37				37+37				45+45				45+55			
HEATER POWER	KW	45				60				70				82			
OILTANK CAPACITY	L	1200				1200				1400				1400			
MACHINE WEIGHT	Ton	6+23				9+26				11+36				12+42			
MACHINE DIMENSIONS (LWXH)	M	4.8*2.2*3.1.5		5.8*2.4*2.4		4.7*2.3*3.1		6.5*2.7*2.5		5.1*2.4*3.3		7.4*2.9*2.6		5.2*2.4*3.3		7.8*3.1*2.9	

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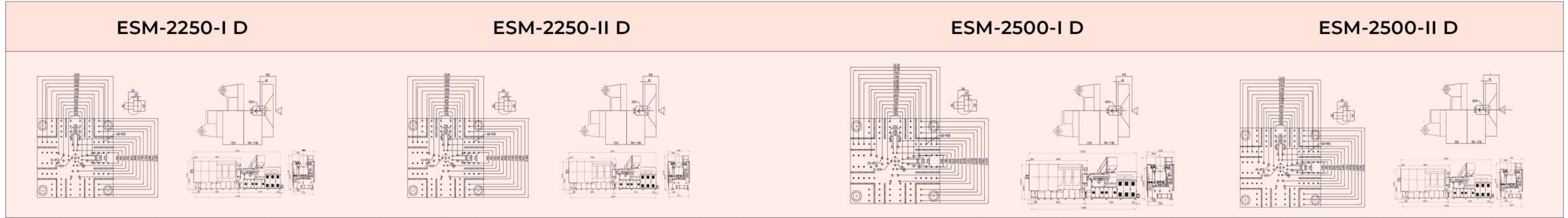
	UNITS	ESM-1550 D				ESM-1850 D				ESM-2000-I D				ESM-2000-II D	
INJECTION UNIT															
SCREW TYPE		A	B	C	D	A	B	C	D	A	B	C	D		
SCREW DIAMETER	mm	110	120	130	140	120	130	140	150	130	140	150	160	180	
SCREW L/D RATIO	L/D	24	22	20.3	18.9	23.8	22	20.4	19.1	23.7	22	20.5	19.3	20	
SHOT VOLUME	cm3	5654	6729	7897	9158	7476	8760	10159	11662	11281.6	13084	15019.9	17089.3	21619	
INJECTION PRESSURE	MPa	204.7	172	146.6	126.4	192.5	164	141.4	123.2	163.5	141	122.8	108	105	
SHOT WEIGHT	Gms	5145	6123	7186	8335	6792	7972	9245	10613	10266	11906	13668	15551	19889	
SCREW SPEED	Rpm	96				90				88				60	
CLAMPING UNIT															
CLAMPING FORCE	KN	15500				18500				20000				20000	
TOGGLE STROKE	mm	1400				1600				1950				1950	
SPACE BETWEEN TIE BARS	mm	1480*1300				1655*1435				1710*1515				1710*1515	
MAX MOULD HEIGHT	mm	1300				1500				1500				1500	
MIN MOULD HEIGHT	mm	530				680				680				680	
EJECTOR STROKE	mm	350				400				400				400	
EJECTOR FORCE	KN	246				363				363				363	
DIE HOLE DIAMETER	mm	250				250				315				315	
OTHER															
SYSTEM PRESSURE	MPa	16				16				16				16	
MOTOR POWER	KW	55+55				45+45+45				45+55+55				55+55+55	
HEATER POWER	KW	97				118				130				140	
OILTANK CAPACITY	L	1600				2000				2000				2000	
MACHINE WEIGHT	Ton	18+47				24+96				24+96				25+96	
MACHINE DIMENSIONS (LWXH)	M	6.9*2.5*3.7		8.9*3.4*2.9		6.3*2.6*4.0		9.9*3.7*3.0		6.3*2.6*4.0		10.5*3.9*3.3		6.3*2.6*4 10.5*3.9*3.3	

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	UNITS	ESM-2250-I D				ESM-2250-II D		ESM-2500-I D				ESM-2500-II D	
INJECTION UNIT													
SCREW TYPE		A	B	C	D			A	B	C	D		
SCREW DIAMETER	mm	140	150	160	170	185		140	150	160	170	190	
SCREW L/D RATIO	L/D	23.7	22	20.5	19.3	20		23.7	22	20.5	19.3	20	
SHOT VOLUME	cm3	14309	16426.1	18689.3	21098.4	27135		16455.3	18545.6	21100.8	23820.8	29755	
INJECTION PRESSURE	MPa	169.8	147.9	130	115.2	104		169.8	147.9	130	115.2	112	
SHOT WEIGHT	Gms	13164	15112	17194	19411	24964		15139	17062	19413	21915	27374	
SCREW SPEED	Rpm	60				60		60				60	
CLAMPING UNIT													
CLAMPING FORCE	KN	22500				22500		25000				25000	
TOGGLE STROKE	mm	1910				1910		1910				1910	
SPACE BETWEEN TIE BARS	mm	1800*1580				1800*1580		1900*1620				1900*1620	
MAX MOULD HEIGHT	mm	1700				1700		1700				1700	
MIN MOULD HEIGHT	mm	700				700		700				700	
EJECTOR STROKE	mm	500				500		500				500	
EJECTOR FORCE	KN	490				490		490				490	
DIE HOLE DIAMETER	mm	315				315		315				315	
OTHER													
SYSTEM PRESSURE	MPa	16				16		16				16	
MOTOR POWER	KW	45+55+55				55+55+55		45+55+55				55+55+55	
HEATER POWER	KW	140				150		150				160	
OILTANK CAPACITY	L	2500				2500		3000				3000	
MACHINE WEIGHT	Ton	26+115				28+115		26+130				27+130	
MACHINE DIMENSIONS (LWXH)	M	8.5*3.2*4.1		11.2*4.0*3.4		8.5*3.2*4.1	11.2*4.0*3.4	8.7*3.2*4.2		11.4*4.1*3.4		8.7*3.2*4.2	11.4*4.1*3.4

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	UNITS	ESM-2800 D		ESM-3400 D	
INJECTION UNIT					
SCREW TYPE					
SCREW DIAMETER	mm	200		220	
SCREW L/D RATIO	L/D	20		20	
SHOT VOLUME	cm3	44610.7		56991	
INJECTION PRESSURE	MPa	133.1		140	
SHOT WEIGHT	Gms	41042		52432	
SCREW SPEED	Rpm	56		45	
CLAMPING UNIT					
CLAMPING FORCE	KN	28000		34000	
TOGGLE STROKE	mm	1910		2020	
SPACE BETWEEN TIE BARS	mm	2000*1650		2160*1800	
MAX MOULD HEIGHT	mm	1850		1950	
MIN MOULD HEIGHT	mm	750		780	
EJECTOR STROKE	mm	500		520	
EJECTOR FORCE	KN	565		830	
DIE HOLE DIAMETER	mm	315		315	
OTHER					
SYSTEM PRESSURE	MPa	16		16	
MOTOR POWER	KW	55*4		55*4	
HEATER POWER	KW	180		220	
OILTANK CAPACITY	L	3800		4800	
MACHINE WEIGHT	Ton	43+150		230	
MACHINE DIMENSIONS (LWXH)	M	9.1*3.3*4.2	12*4.2*3.4	11.1*3.4*5.0	12.4*4.4*3.6

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