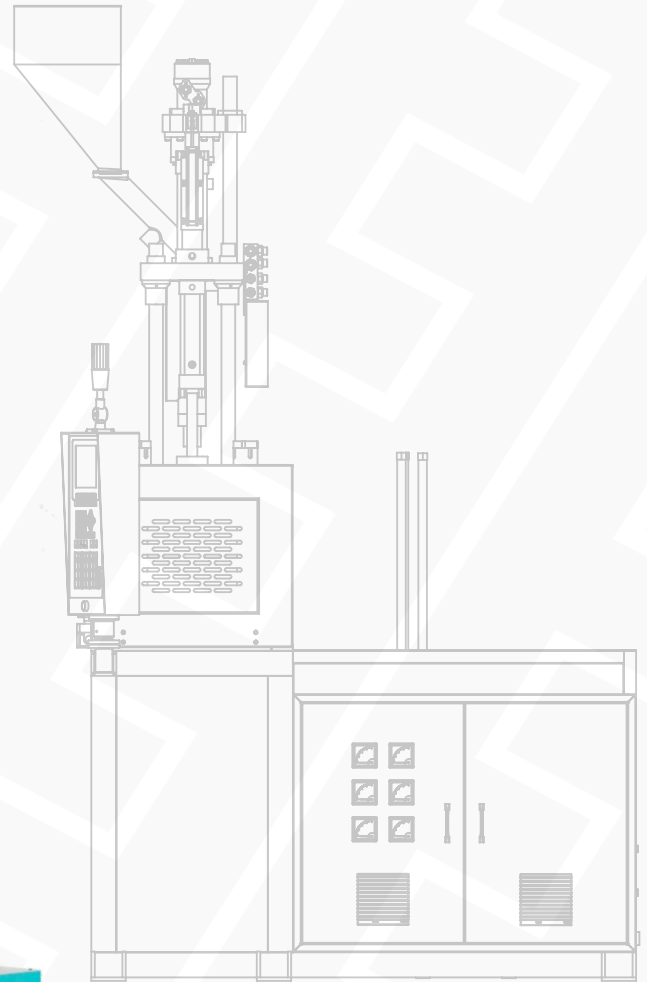




KAMAL ENGINEERING

ISO 9001:2015



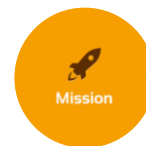


COMPANY INTRODUCTION

- We Are One Of The Most Established Injection Moulding Machine Manufacturers In India. Having A Large Production Facility In Ahmedabad, We Design And Manufacture Highly Durable And Precision Machines To Ensure The Maximum Satisfaction Of Our Clients. Owing To Years Of Experience And Rich Industry Expertise, We Are Engaged In Offering A Comprehensive Array Of Injection Moulding Machines To Our Clients In India And Worldwide.



Our Vision Is To Provide Complete Vertical And Horizontal Injection Moulding Machine Solutions And Best In Class Service Experience To Our Customers



We Are Continuously Setting High Technology And Quality Performance, and Service Support. Our Team Professional Has All The Requisite Expertise Related To Injection Moulding machines.

Values

Safety First | Customer Driven | Best - In - Class Quality

Our Certificates



KE-T SERIES

VERTICAL INJECTION MOULDING MACHINE SERIES

- VERTICAL INJECTION & HORIZONTAL CLAMPING
- VERTICAL SCREW TYPE INJECTION MOULDING MACHINE
- FULL MICROPROCESSOR PLC TYPE
- POWER SAVING SERVO TYPE
- FULL AUTOMATIC TOGGLE TYPE CLAMPING



● HORIZONTAL CLAMPING & VERTICAL INJECTION

Specification	UNIT	KE-60T	KE-100T	KE-150T	KE-200T	KE-300T	KE-500T
Screw Diameter	mm	30	35	40	45	45	55
Injection Pressure	kg/cm ²	1700	1600	1500	1500	1500	1400
Theoretical Shot Volume	cm ³	71	130	207	251	251	275
Max. Shot Weight	g	50	100	150	200	300	500
Injection Rate	cm ³ / sec	57	83	90	114	114	167
Screw Stroke	mm	100	140	170	200	250	350
Screw Speed Max.	rpm	0-250	0-250	0-250	0-250	0-250	0-250
Nozzal Reaction Stroke	mm						
Number Of Temperature		4	4	4	4	4	5
Matrial Hopper Capacity	l	10	10	15	20	20	20
Clamping Force	tons	35	35	50	75	75	90
Opening Force	tons	1.5	2.6	3.1	4	4	6.1
Distance Between Tie Bar	mm	200x200	260x260	310x310	340x340	360x360	400x400
Min. Mould Hight	mm	100	100	100	100	100	125
Opening Stroke	mm	150	180	275	310	310	400
Max. Open Daylight	mm	420	460	590	680	680	900
Ejector Force	tons	1.3	1.3	1.3	2	2	2
Ejector Stroke	mm	50	70	70	70	70	70
Slide Stroke	mm	120	150	150	150	200	250
Max. Hydraulic Pressure	kg/cm ²	120	120	120	120	120	120
Pump Output	litter/min	20	26	26	40	40	60
Oil Capacity	liter	100	120	120	150	150	200
Pump Motor	kw	2.2	3.5	3.5	5.5	5.5	10
Barrel Heating Power	kw	3.2	4.1	4.1	4.1	6	6.5
Total Wattage	kw	5.4	7.6	7.6	9.6	11.5	16.5
Machine Weight Approx	tons	0.7	0.9	1	1.5	1.5	2.5
Machine Size Approx	m	1.8x1x2.48	2.1x1.1x2.8	2.2x1.2x3	2.2x1.3x3.1	2.4x1.2x3.4	2.7x1.5x3.4

Insert Moulding Machine Fix Plate Single Slide. Double Slide, Main Feature

- Clamping Force. 25 Ton 100 Ton Vertical Injection & Vertical Clamping High
- Speed Productivity Come Form Specital Type Of Slidable Table Servo, VDP,
- Efbg, Vertical Machine Have The Advantage Of Low Noise, Low Energy
- Consumption, High Efficiency & Long Life Time



VERTICAL CLAMPING & VERTICAL INJECTION FIX PLATE

Specification	UNIT	KE-25FS		KE-40FS		KE-55FS		KE-70FS		KE-85FS		KE-100FS	
Screw Diameter	mm	25	30	30	35	35	40	35	40	40	45	45	50
Injection Volume	cm3	49	70	85	115	135	175	135	175	226	286	286	353
Injection Pressure	kg/cm2	2150	1495	1742	1280	1594	1220	1594	1220	1973	1559	1559	1263
Injection Weight	g(oz)	44(1.5)	62(2.2)	76(2.7)	101(3.6)	123(4.3)	160(5.7)	123(4.3)	160(5.7)	206(7.3)	261(9.3)	261(9.3)	320(11.3)
Nozzal Stroke	mm	120		200		200		200		250		250	
Temperature Zone	-	4		4		4		4		4		5	
Hopper Capacity	l	10		10		12		12		15		15	
Clamping Force	ton	25		40		55		70		85		100	
Space Between Tie Bar	mm(inch)	300x240(11"x9")		370x240(14"x9")		410x310(16"x12")		460x330(18"x12")		520x360(20"x14")		620x400(24"x15")	
Min. Mould Height	mm	125		140		145		145		200		240	
Opening Stroke	mm	180		200		250		270		300		300	
Max. Open Daylight	mm	305		370		420		445		525		590	
Ejector Force	ton	1.7		1.7		1.7		2		3		3	
Ejector Stroke	mm	40		50		55		55		55		55	
Max. Hydraulic Pressure	kg/cm2	140		140		140		140		140		140	
Tank Volume	litter	140		180		200		250		250		300	
Pump Motor Power	kw	3.5		5.5		7.5		11		11		15	
Heater Power	kw	3.2		3.2		3.5		4.5		4.5		4.2	
Total Wattage	kw(HP)	6.7(9)		8.7(11.6)		11(15)		15.5(20)		15.5(20)		19.2(25)	
Machine Weight Approx	ton	1.4		1.6		2.1		2.5		3.2		3.8	
Machine Dimension Apr.	mm	2845x1615x950		3151x1635x1180		3044x1815x1230		3494x1900x1400		3600x2025x1520		3650x2050x1600	

Insert Moulding Machine Fix Plate Single Slide. Double Slide, Main Feature

- Clamping Force. 25 Ton 100 Ton Vertical Injection & Vertical Clamping High
- Speed Productivity Come Form Specital Type Of Slidable Table Servo, VDP,
- Efbg, Vertical Machine Have The Advantage Of Low Noise, Low Energy
- Consumption, High Efficiency & Long Life Time



VERTICAL CLAMPING & VERTICAL INJECTION SINGLE SLIDE / DOUBLE SLIDE

Specification	UNIT	KE-25VS		KE-40VS		KE-55VS		KE-70VS		KE-85VS		KE-100VS	
Screw Diameter	mm	25	30	30	35	35	40	35	40	40	45	45	50
Injection Volume	cm3	49	70	85	115	135	175	135	175	226	286	286	353
Injection Pressure	kg/cm2	2150	1495	1742	1280	1594	1220	1594	1220	1973	1559	1559	1263
Injection Weight	g(oz)	44(1.5)	62(2.2)	76(2.7)	101(3.6)	123(4.3)	160(5.7)	123(4.3)	160(5.7)	206(7.3)	261(9.3)	261(9.3)	320(11.3)
Nozzal Stroke	mm	120		200		200		200		250		250	
Temperature Zone	-	4		4		4		4		4		5	
Hopper Capacity	l	10		10		12		12		15		15	
Clamping Force	ton	25		40		55		70		85		100	
Space Between Tie Bar	mm(inch)	300x240(11"x9")		370x240(14"x9")		410x310(16"x12")		460x330(18"x12")		520x360(20"x14")		620x400(24"x15")	
Min. Mould Height	mm	125		140		145		145		200		240	
Opening Stroke	mm	180		200		250		270		300		300	
Max. Open Daylight	mm	305		370		420		445		525		590	
Ejector Force	ton	1.7		1.7		1.7		2		3		3	
Ejector Stroke	mm	40		50		55		55		55		55	
Max. Hydraulic Pressure	kg/cm2	140		140		140		140		140		140	
Tank Volume	litter	140		180		200		250		250		300	
Pump Motor Power	kw	3.5		5.5		7.5		11		11		15	
Heater Power	kw	3.2		3.2		3.5		4.5		4.5		4.2	
Total Wattage	kw(HP)	6.7(9)		8.7(11.6)		11(15)		15.5(20)		15.5(20)		19.2(25)	
Machine Weight Approx	ton	1.4		1.6		2.1		3		5		6.5	
Machine Dimension Apr.	mm	2845x1615x950		3151x2000x1180		3044x2250x1230		3494x2420x1400		3600x2600x1520		3650x2700x1600	
Additional Features : SS													
Specification		KE-25VS/DS		KE-40VS/DS		KE-55VS/DS		KE-70VS/DS		KE-85VS/DS		KE-100VS/DS	
Slide Stroke	mm	390		400		460		530		610		700	

Insert Moulding Machine Rotary Type Two Mould Sutaibale,

Two Color Mainfeature

- Clamping Force. 15 Ton 100 Ton
- Vertical Injection & Vertical Clamping
- High Speed Productivity Come Form Specital Type Of Slidable Table
- Servo, Vdp, Efbg, Vertical Machine Have The Advantage Of Low Noise,
- Low Energy Consumption, High Efficiency & Long Life Time



VERTICAL CLAMPING & VERTICAL INJECTION ROTARY TYPE

Specification	UNIT	KE-25R2		KE-40R2		KE-55R2		KE-70R2		KE-85R2		KE-100R2	
Screw Diameter	mm	25	30	30	35	35	40	35	40	40	45	45	50
Injection Volume	cm3	49	70	85	115	135	175	135	175	226	286	286	353
Injection Pressure	kg/cm2	2150	1495	1742	1280	1594	1220	1594	1220	1973	1559	1559	1263
Injection Weight	g(oz)	44(1.5)	62(2.2)	76(2.7)	101(3.6)	123(4.3)	160(5.7)	123(4.3)	160(5.7)	206(7.3)	261(9.3)	261(9.3)	320(11.3)
Nozzal Stroke	mm	120		200		200		200		250		250	
Temperature Zone	-	4		4		4		4		4		5	
Hopper Capacity	l	10		10		12		12		15		15	
Clamping Force	ton	25		40		55		70		85		100	
Space Between Tie Bar	mm(inch)	300x240(11"x9")		370x240(14"x9")		410x310(16"x12")		460x330(18"x12")		520x360(20"x14")		620x400(24"x15")	
Min. Mould Height	mm	125		140		145		145		200		240	
Opening Stroke	mm	180		200		250		270		300		300	
Max. Open Daylight	mm	305		370		420		445		525		590	
Ejector Force	ton	1.7		1.7		1.7		2		3		3	
Ejector Stroke	mm	40		50		55		55		55		55	
Max. Hydraulic Pressure	kg/cm2	140		140		140		140		140		140	
Tank Volume	litter	140		180		200		250		250		300	
Pump Motor Power	kw	3.5		5.5		7.5		11		11		15	
Heater Power	kw	3.2		3.2		3.5		4.5		4.5		4.2	
Total Wattage	kw(HP)	6.7(9)		8.7(11.6)		11(15)		15.5(20)		15.5(20)		19.2(25)	
Machine Weight Approx	ton	1.4		2		3.4		3.9		5		6.5	
Machine Dimension Apr.	mm	2845x1615x950		3151x1635x1180		3044x1815x1230		3494x1900x1400		3600x2025x1520		3650x2050x1600	
Additional Features : R2													
Specification		KE-25R2		KE-40R2		KE-55R2		KE-70R2		KE-85R2		KE-100R2	
Rotary Disk Size	mm	580		740		880		980		1170		1300	

INJECTION PLASTIC MOULD

ALL TYPE PLASTIC MOULD

- PLASTIC ENGINEERING COMPONENTS MOULD
- PLASTIC SURGICAL COMPONENTS MOULD
- PLASTIC HOUSEHOLD COMPONENTS MOULD
- PLASTIC AGRICULTURE COMPONENTS MOULD
- ALL TYPE VERTICAL, AND HORIZONTAL SUITABLE MAKING
- MOULD, BEST QUALITY AND EASY WORKING BEST PRODUCTIVITY



MATERIAL	DENSITY gm/cc	PROCESSING TEMPERATURE C	CLARITY T / D / C	TENSILE STRENGTH AT YIELD kg?CM	ELDNGATION AT BREAK %	SOFRENING TEMPERATURE VICAT 0C	HEAT DEFLECTION 0C 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 OPAOUE	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 OPAOUE	275	45	88	83
ABS	1.05	210-270	OPAOUE	440	20	95	86
SAN	1.04	220-270	CLEAR	650	4	107	95
POLYCARBONATA (PC)	1.2	260-310	CLEAR	680	150	150	144
NYLON - 6	1.13	240-270	TRANSLUCENT OPAOUE	740	40	215	165
NYLON - 66	1.13	270-300	TRANSLUCENT OPAOUE	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	OPAOUE	530	300	172	155
POLYURETHENE	1.20	185-240	CLEAR	520	510	116	74
ACETAL	1.41	180-240	OPAOUE	700	55	104	172
TPE	1.2	180-240	OPAOUE	310	375	200	111
PET	1.38	260-310	CLEAR	880	70	110	85

VERTICAL INJECTION MOULDING MACHINE SERIES

- VERTICAL INJECTION & HORIZONTAL CLAMPING
- VERTICAL SCREW TYPE INJECTION MOULDING MACHINE
- FULL MICROPROCESSOR PLC TYPE
- POWER SAVING SERVO TYPE
- FULL AUTOMATIC TOGGLE TYPE CLAMPING



HORIZONTAL CLAMPING & VERTICAL INJECTION SUPER TOGGLE

Specification	UNIT	KE-60ST	KE-100ST	KE-150ST	KE-200ST	KE-300ST	KE-500ST
Screw Diameter	mm	30	35	40	45	45	55
Injection Pressure	kg/cm ²	1700	1600	1500	1500	1500	1400
Theoretical Shot Volume	cm ³	71	130	207	251	251	275
Max. Shot Weight	g	50	100	150	200	300	500
Injection Rate	cm ³ / sec	57	83	90	114	114	167
Screw Stroke	mm	100	140	170	200	250	350
Screw Speed Max.	rpm	0-250	0-250	0-250	0-250	0-250	0-200
Nozzal Reaction Stroke	mm						
Number Of Temperature		4	4	4	4	4	5
Matrrial Hopper Capacity	l	10	10	15	20	20	20
Clamping Force	tons	35	50	50	80	100	130
Opening Force	tons	1.5	2.6	3.1	4	4	6.1
Distance Between Tie Bar	mm	200x200	260x260	310x310	340x340	360x360	400x400
Min. Mould Hight	mm	100	100	100	100	100	125
Opening Stroke	mm	210	300	325	460	470	550
Max. Open Daylight	mm	350	470	550	670	670	780
Ejector Force	tons	1.3	1.3	1.3	2	2	2
Ejector Stroke	mm	50	70	70	70	70	70
Slide Stroke	mm	120	150	150	150	200	250
Max. Hydraulic Pressure	kg/cm ²	120	120	120	120	120	120
Pump Output	litter/min	20	26	26	40	40	60
Oil Capacity	liter	100	120	120	150	150	200
Pump Motor	kw	2.2	3.5	3.5	5.5	5.5	10
Barrel Heating Power	kw	3.2	4.1	4.1	4.1	6	6.5
Total Wattage	kw(HP)	5.4(7.24)	7.6(10.2)	7.6(10.2)	9.6(12.8)	10.5(14)	16.5(22.1)
Machine Weight Approx	tons	1.7	1.9	2.5	2.5	3.5	4
Machine Size Approx	m	1.8x1x2.48	2.1x1.1x2.8	2.2x1.2x3	2.2x1.3x3.1	2.4x1.2x3.4	2.7x1.5x3.4



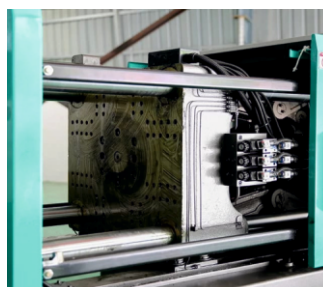
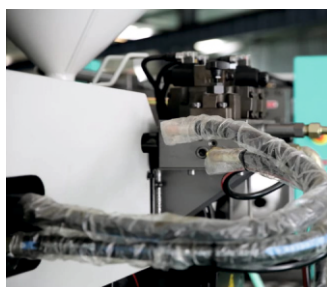
HORIZONTAL CLAMPING & VERTICAL INJECTION RAM TYPE

Specification	UNIT	KE-60R	KE-100R	KE-150R	KE-200R	KE-300R	KE-500R
Screw Diameter	mm	30	35	40	45	45	55
Injection Pressure	kg/cm ²	1700	1600	1500	1500	1500	1400
Theoretical Shot Volume	cm ³	71	130	207	251	251	275
Max. Shot Weight	g	50	100	150	200	300	500
Injection Rate	cm ³ / sec	57	83	90	114	114	167
Screw Stroke	mm	100	140	170	200	250	350
Screw Speed Max.	rpm	0-250	0-250	0-250	0-250	0-250	0-200
Nozzal Reaction Stroke	mm						
Number Of Temperature		4	4	4	4	4	5
Matrrial Hopper Capacity	l	10	10	15	20	20	20
Clamping Force	tons	8	15	20	25	25	35
Opening Force	tons	1.5	2.6	3.1	4	4	6.1
Distance Between Tie Bar	mm	200x200	260x260	310x310	340x340	360x360	400x400
Min. Mould Hight	mm	100	100	100	100	100	125
Opening Stroke	mm	340	395	450	490	500	630
Max. Open Daylight	mm	440	505	605	675	700	835
Ejector Force	tons	1.3	1.3	1.3	2	2	2
Ejector Stroke	mm	50	70	70	70	70	70
Slide Stroke	mm	120	150	150	150	200	250
Max. Hydraulic Pressure	kg/cm ²	120	120	120	120	120	120
Pump Output	litter/min	20	26	26	40	40	60
Oil Capacity	liter	100	120	120	150	150	200
Pump Motor	kw	2.2	3.5	3.5	5.5	5.5	10
Barrel Heating Power	kw	3.2	4.1	4.1	4.1	6	6.5
Total Wattage	kw	5.4	7.6	7.6	9.6	11.5	16.5
Machine Weight Approx	tons	0.7	0.9	1	1.5	1.5	2.5
Machine Size Approx	m	1.8x1x2.48	2.1x1.1x2.8	2.2x1.2x3	2.2x1.3x3.1	2.4x1.2x3.4	2.7x1.5x3.4



HORIZONTAL CLAMPING & HORIZONTAL INJECTION

MODEL		KE-85 H			KE-100 H			KE-130 H			KE-170 H			KE-200 H		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
INJECTION UNIT																
Screw Diameter	mm	32	35	38	35	38	42	38	42	45	42	42	50	45	50	50
Screw L/D Ratio		22	20.1	18.5	22	20.3	42	24	22	20.5	23.6	22	19.8	24.4	22	19.8
Shot Size (Theoretical)	cm3	133	160	190	163	193.2	235	226	277	318	311	357	441	397	490	441
Injection Weight	g	121	146	173	148	176	214	206	252	289	283	325	402	362	446	402
Injection Pressure	Mpa	203	170	144	219	184	152	208	171	149	203	177	143	207	168	143
Screw Speed	r/min		0-225			0-210			0-185			0-180			0-155	
CLAMPING UNIT																
Clamp Tonnage	KN		850			1000			1300			1700			2200	
Toggle Stroke	mm		320			350			380			435			475	
Tia Bar Diameter			60			65			75			80			90	
Space Between Tie Bars	mm		360*340			370*370			420*420			470*470			520*520	
Max.Mold Height	mm		350			380			450			500			550	
Min.Mold Height	mm		150			150			160			180			200	
Ejector Stroke	mm		90			120			140			140			150	
Ejector Tonnage	KN		30			38			50			50			70	
OTHERS																
Max. Pump Pressure	Mpa		16			16			16			16			16	
Pump Motor Power	KW		11			13			13			18.5			18.5	
Heater Power	KW		6.5			7.5			8			12.5			14	
Machine	m					4.3'1.3'2.0			4.6'1.5'2.1			5.1'1.5'2.2			5.7'1.6'2.3	
machine Weight	t		2.8			3.4			4			6			7	



OPTIONAL AUXILIARY EQUIPMENTS



CHILLER MACHINE



HOPPER DRYER



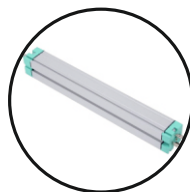
CRUSHING MACHINE



WATER COOLING TOWER



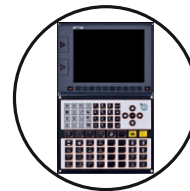
SAFETY SENSORS



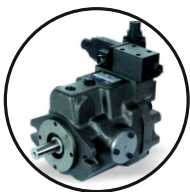
LINEAR SCALE



PISTON MOTOR



PLC



VDP, PUMP

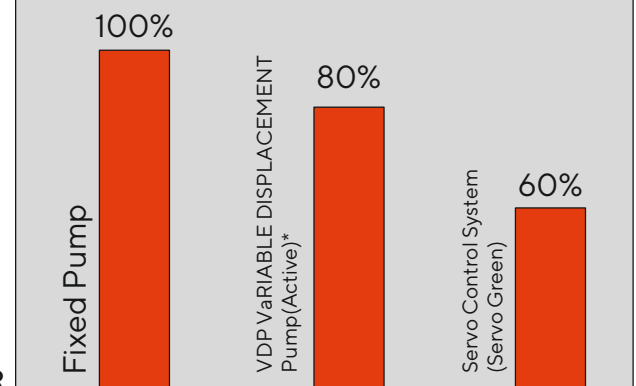


SERVO MOTOR

Hydraulics System

- Energy Efficient Variable Displacement Pump And Servo Control System.
- Digital Oil Temperature Gauge.direct Reading Hydraulic Pressure.
- Compact, Easily Accessible Injection And Clamping Valves To Minimize The Heat Generation.
- Contamination Free Oil Tank With Feele Cum-breather.
- Return Line Filter As Standard Accessories.
- Alarm Shut Down For Low Lubrication Oil Level.
- Provides High Safety As Main Motor Shuts Down On Opening Rear Gate.
- Hydraulic Directional Valve On/o ffIndicator Connector.

POWER CONSUMPTION



OUR PRESENCE



+91 98981 46156

+91 8128544474

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