HyCAP Machine Specifications V2.1

Product Matrix

	RS55	RS65	RS80	RS95	
H225	•	•	•		
H300		•	•	•	
H400			•	•	
H500			٠	•	

Features

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Hopper access walkway ✓ njection unit access platform ✓	Hopper drawer magnet		\checkmark
njection unit access platform	Hopper with minimum level monitoring		\checkmark
	Hopper access walkway		\checkmark
Color changing feature	Injection unit access platform		\checkmark
	Color changing feature		\checkmark

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Controls Features	Standard	Option
Industrial PC machine control with Windows [™] style operator interface	\checkmark	
Data storage on USB, hard drive and CD	✓	
Solid state heater relays	\checkmark	
Ultrasonic non-contact position transducers on clamp injection unit and ejector, 5 micron resolution	\checkmark	
Flat panel colour operator interface, touch screen	\checkmark	
Sealed electric cabinet with internal air circulation fan	\checkmark	
Star delta motor starter	\checkmark	
Hour meter	\checkmark	
Ports for parallel printer, external keyboard and mouse, external screen, ethernet, and modem	\checkmark	
Closed loop control of injection speed, hold pressure, back pressure, and fill pressure limiting	\checkmark	
10 step injection speed profile	\checkmark	
10 step recovery speed and back pressure profiles	\checkmark	
10 step hold pressure profile	\checkmark	
Graphical display of injection speed, injection pressure, clamp pressure, platen speed	\checkmark	
Cushion control and monitoring	\checkmark	
Fransition injection to hold by position, time, hydraulic pressure	\checkmark	
Screens in English and one other world language with on-line language switching	\checkmark	
mperial and metric units with on-line switching	\checkmark	
Set and actual parameters in engineering units	\checkmark	
Explicit alarm descriptions with on-line help	\checkmark	
Save / recall of over 1000 machine setups with set-up transfer on CD or USB device	\checkmark	
Cycle time, highest priority alarm, clock & machine status on every screen	\checkmark	
Setpoint limit checking	\checkmark	
Aulti-level password protected data entry	\checkmark	
Froubleshooting screens	\checkmark	
Machine events (20000) and downtime reports	√	
SPC/SQC software package with analysis, and alarms (20000 cycles)	√	
Storage of process values (10000 cycles)	√	
Machine and mold heat scheduling	√	
Timer based, automatic heat reduction if machine stops	v	
Production counter with completion alarm	•	
Audible alarm	\checkmark	1
High ambient temperature package		•
Set point change reason reporting		•
Power outlet package		•
Host computer interface		•
njection compression		•
Hotrunner temperature controls interface		•
Photo eye part detection		•
nterface to auxiliary devices		v
Hydraulic Features	✓	
ndependent servo valve control of clamp tonnage, mold stroke and injection /ariable displacement pumps	• •	
High efficiency water cooled drive motor	· •	
Noise reducing fully enclosed power pack	1	
Face-seal fittings	· •	
Quick connector on filter for oil filling	✓	
High flow bypass oil filtration (3 micron) with pressure drop monitoring	1	
Dil level monitoring	✓	
Closed loop oil temperature control	✓	
Dil preheating	✓	
Hydraulic hose restraints on pressure lines	✓	
Aold services identified with nameplates	✓	
ligh and low oil temperature alarms	√	
High oil temperature pre-alarm	✓	
Pressurized oil tank for minimum contamination	√	
Centralized oil collection and recovery system	· √	
Quick connectors for hydraulic guage (supplied) at key hydraulic test points	•	

Hydraulic supply for customer requirements

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Clamp		H225
Clamp Force	kN	2250
Tiebar Spacing (Horizontal x Vertical)	mm	660 x 660
Platen Size (Horizontal x Vertical)	mm	950 × 950
Clamp Stroke (1)	mm	540 / 920
Shutheight (Min / Max)	mm	280 / 660
Daylight	mm	1200
Ejector Stroke	mm	100
Ejector Force	kN	141
Tiebar Diameter	mm	110
Maximum Mold Weight ⁽⁶⁾	kg	3000
Dry Cycle ⁽²⁾	S	1.22

RS Injection Model		F	RS55			RS65			RS80	
Working Capacity			980			1612			2651	
Screw Diameter	mm		50			60		65		70
Screw L/D			25.0			25.0		27.1	2	5.0
Injection Pressure	bar		2080			2000		2350	2	030
Injection Stroke	mm		240			285		340	З	340
Injection Capacity	cm ³		471			806		1128	1	308
Barrel Heat Power	kW		21.6			27.2		42.0	4	2.0
Barrel Control Zones (3)			4			4		5		5
High Speed Accumulator Assist Injection Rate ⁽⁴⁾	cm ³ /s		1642			1709		3801	4	408
High Speed Accumulator Assist Air Shot Rate	cm ³ /s		3200			3300		6000	7	000
Carriage Force	kN		80			80		178	1	78
Melt Channel Diameter	mm		15			15		22	:	22
Screw Drive ⁽⁵⁾ HDPE MFI 1-6										
Screw Speed	RPM		382			318		294	2	273
Peripheral Screw Speed	m/s		1.0			1.0		1.0		1.0
Screw Torque	Nm		1522			2490		3351	3	776
HDPE MFI 7-11										
Screw Speed	RPM		458			382		353	32	27.4
Peripheral Screw Speed	m/s		1.2			1.2		1.2		1.2
Screw Torque	Nm		1155			1890		2543	2	866
Overall Machine Specifications										
Oil Volume	1		630			720			970	
Overall Width x Height	mm	1910	x	2472	1899	X	2522	2017	x	2522
Overall Length	mm		7418		. 500	7788			8692	_022
Overall Weight	t		13.4			14.6			17.3	

Notes: (1) Available stroke at maximum shutheight / maximum stroke at minimum shutheight.

(2) 100% speed, 100% clamp force using 350 mm stroke.

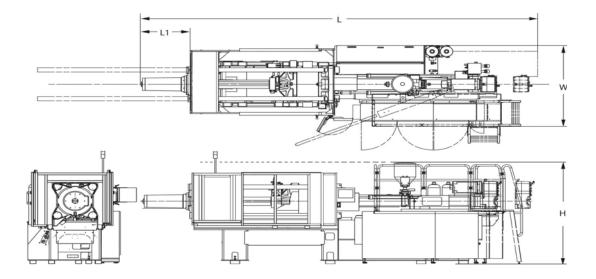
(3) Additional zones provided for barrel head, nozzle adapter, and optional shut-off head.

(4) Instantaneous injection rate at 2/3 of maximum available plastic pressure up to 30% injection stroke.

(5) Please consult Husky for final resin specific plasticizing performance for your application.

(6) Maximum 60% stationary platen, 40% moving platen

Specifications are subject to change without notice.



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Clamp		H300
Clamp Force	kN	3000
Tiebar Spacing (Horizontal x Vertical)	mm	780 x 780
Platen Size (Horizontal x Vertical)	mm	1130 x 1130
Clamp Stroke (1)	mm	600 / 1075
Shutheight (Min / Max)	mm	300 / 775
Daylight	mm	1375
Ejector Stroke	mm	98
Ejector Force	kN	141
Tiebar Diameter	mm	130
Maximum Mold Weight (6)	kg	3000
Dry Cycle (2)	S	1.33

	R	S65			RS80				RS95	
	16	612			2651				4756	
mm	6	50		65	7	0		80	8	35
	2	5.0		27.1	25	5.0		26.7	2	5.0
bar	20	000		2350	20)30		2280	20	020
mm	2	85		340	3	40		415	4	15
cm ³	8	06		1128	13	808		2086	23	355
kW	2	7.2		42.0	42	2.0		57.6	5	7.6
		4		5	1	5		6		6
cm ³ /s	17	709		3801	44	804		3973	44	485
cm ³ /s	33	300		6000	70	000		6300	71	100
kN	8	30		178	1	78		178	1	78
mm	1	15		22	2	22		22	2	22
RPM	3	18		294	2	73		239	2	25
m/s	1	.0		1.0	1	.0		1.0	1	.0
Nm	24	190		3351	37	76		5783	63	378
RPM	3	82		353	32	7.4		286	26	69.6
m/s	1	.2		1.2	1	.2		1.2	1	.2
Nm	18	390		2543	28	866		4390	48	341
I.	7	20			1005				1025	
mm	2016	x 2463	3	2134	x	2522		2134	х	2522
	-									
	bar mm cm ³ kW cm ³ /s cm ³ /s kN mm RPM m/s Nm RPM m/s Nm	mm 16 mm 22 bar 20 mm 22 cm ³ 8 kW 22' cm ³ /s 17 cm ³ /s 17 cm ³ /s 33 kN 8 mm 1 n/s 1 Nm 24 RPM 3 m/s 1 Nm 24 RPM 3 m/s 1 Nm 18 I 7 mm 2016 mm 81	25.0 bar 2000 mm 285 cm³ 806 kW 27.2 4 4 cm³/s 1709 cm³/s 3300 kN 80 mm 15 RPM 318 m/s 1.0 Nm 2490 RPM 382 m/s 1.2 Nm 1890 I 720 mm 2016 x mm 8185	1612 1 mm 60 25.0 bar 2000 1 mm 285 1 cm ³ 806 1 kW 27.2 4 cm ³ /s 1709 1 cm ³ /s 3300 1 kN 80 1 mm 15 1 mm 15 1 RPM 318 1 m/s 1.0 1 Nm 2490 1 RPM 382 1 m/s 1.2 1 Nm 1890 1 I 720 1 mm 2016 x 2463 mm 8185 1 1	Interface Interface <thinterface< th=""> Interface <thinterface< th=""> Interface <thinterface< th=""> <thinterface< th=""> <thint< td=""><td>Imm Imm <thimm< th=""> <thimm< th=""> <thimm< th=""></thimm<></thimm<></thimm<></td><td>Interface 2651 mm 60 65 70 25.0 27.1 25.0 2350 2030 mm 285 340 340 cm³ 806 1128 1308 kW 27.2 42.0 42.0 4 5 5 cm³/s 3300 6000 7000 kN 80 178 178 mm 15 22 22 kN 80 178 178 mm 15 294 273 mm 15 353 327.4 m/s 1.2 1.2 1.2 m/s 1.2 2543 2866 m/s 1.890 2543 2866 mm 1890 2543 2866 i 720 1005 1005 mm 2016 x 2463 2134 x 2522 mm 8185</td><td>Imm 1612 2651 Imm mm 60 65 70 1 25.0 27.1 25.0 2350 2030 mm 285 340 340 340 cm³ 806 1128 1308 1 kW 27.2 42.0 42.0 42.0 4 5 5 5 5 cm³/s 3300 6000 7000 1 kN 80 178 178 1 mm 15 22 22 2 mm 15 3351 3776 1 mm 2490 3351 3776 1 mm 1.2 1.2 1.2 1.2 1 mm 1890 2543 2866 1 1 m/s 1.2 1.2 1.2 1.2 1 1 Nm 1890 2543 2866 1 1 1</td><td>Imm 1612 2651 80 mm 60 65 70 80 25.0 27.1 25.0 26.7 26.7 bar 2000 2350 2030 2280 mm 285 340 340 415 cm³ 806 1128 1308 2086 kW 27.2 42.0 42.0 57.6 4 5 5 6 3973 cm³/s 1709 3801 4408 3973 cm³/s 3300 6000 7000 6300 kN 80 178 178 178 mm 15 22 22 22 mm 15 22 22 22 mm 1.0 1.0 1.0 1.0 Nm 2490 353 327.4 286 m/s 1.2 1.2 1.2 1.2 Nm 1890 2543 <td< td=""><td>India India <th< td=""></th<></td></td<></td></thint<></thinterface<></thinterface<></thinterface<></thinterface<>	Imm Imm <thimm< th=""> <thimm< th=""> <thimm< th=""></thimm<></thimm<></thimm<>	Interface 2651 mm 60 65 70 25.0 27.1 25.0 2350 2030 mm 285 340 340 cm ³ 806 1128 1308 kW 27.2 42.0 42.0 4 5 5 cm ³ /s 3300 6000 7000 kN 80 178 178 mm 15 22 22 kN 80 178 178 mm 15 294 273 mm 15 353 327.4 m/s 1.2 1.2 1.2 m/s 1.2 2543 2866 m/s 1.890 2543 2866 mm 1890 2543 2866 i 720 1005 1005 mm 2016 x 2463 2134 x 2522 mm 8185	Imm 1612 2651 Imm mm 60 65 70 1 25.0 27.1 25.0 2350 2030 mm 285 340 340 340 cm³ 806 1128 1308 1 kW 27.2 42.0 42.0 42.0 4 5 5 5 5 cm³/s 3300 6000 7000 1 kN 80 178 178 1 mm 15 22 22 2 mm 15 3351 3776 1 mm 2490 3351 3776 1 mm 1.2 1.2 1.2 1.2 1 mm 1890 2543 2866 1 1 m/s 1.2 1.2 1.2 1.2 1 1 Nm 1890 2543 2866 1 1 1	Imm 1612 2651 80 mm 60 65 70 80 25.0 27.1 25.0 26.7 26.7 bar 2000 2350 2030 2280 mm 285 340 340 415 cm ³ 806 1128 1308 2086 kW 27.2 42.0 42.0 57.6 4 5 5 6 3973 cm ³ /s 1709 3801 4408 3973 cm ³ /s 3300 6000 7000 6300 kN 80 178 178 178 mm 15 22 22 22 mm 15 22 22 22 mm 1.0 1.0 1.0 1.0 Nm 2490 353 327.4 286 m/s 1.2 1.2 1.2 1.2 Nm 1890 2543 <td< td=""><td>India India <th< td=""></th<></td></td<>	India India <th< td=""></th<>

Notes: (1) Available stroke at maximum shutheight / maximum stroke at minimum shutheight.

(2) 100% speed, 100% clamp force using 350 mm stroke.

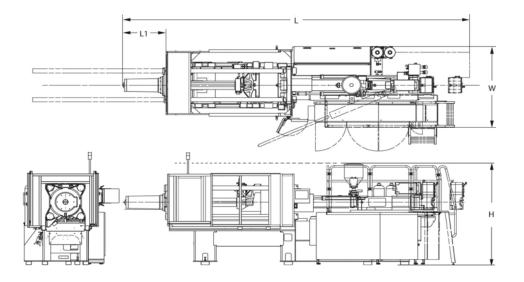
(3) Additional zones provided for barrel head, nozzle adapter, and optional shut-off head.

(4) Instantaneous injection rate at 2/3 of maximum available plastic pressure up to 30% injection stroke.

(5) Please consult Husky for final resin specific plasticizing performance for your application.

(6) Maximum 60% stationary platen, 40% moving platen

Specifications are subject to change without notice.



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Clamp		H400	
Clamp Force	kN	4000	
Tiebar Spacing (Horizontal x Vertical)	mm	920 x 92	20
Platen Size (Horizontal x Vertical)	mm	1310 × 13	310
Clamp Stroke (1)	mm	725 / 12	280
Shutheight (Min / Max)	mm	320 / 87	75
Daylight	mm	1600	
Ejector Stroke	mm	136	
Ejector Force	kN	187	
Tiebar Diameter	mm	148	
Maximum Mold Weight (6)	kg	7500	
Dry Cycle (2)	S	1.39	

RS Injection Model			RS80			RS95
Working Capacity			2651			4756
Screw Diameter	mm	65	70		80	85
Screw L/D		27.1	25.0		26.7	25.0
Injection Pressure	bar	2350	2030		2280	2020
Injection Stroke	mm	340	340		415	415
Injection Capacity	cm ³	1128	1308		2086	2355
Barrel Heat Power	kW	42.0	42.0		57.6	57.6
Barrel Control Zones (3)		5	5		6	6
High Speed Accumulator Assist Injection Rate ⁽⁴⁾	cm ³ /s	3801	4408		3973	4485
High Speed Accumulator Assist Air Shot Rate	cm ³ /s	6000	7000		6300	7100
Carriage Force	kN	178	178		178	178
Melt Channel Diameter	mm	22	22		22	22
Screw Drive ⁽⁵⁾ HDPE MFI 1-6						
Screw Speed	RPM	294	273		239	225
Peripheral Screw Speed	m/s	1.0	1.0		1.0	1.0
Screw Torque	Nm	3351	3776		5783	6378
HDPE MFI 7-11						
Screw Speed	RPM	353	327.4		286	269.6
Peripheral Screw Speed	m/s	1.2	1.2		1.2	1.2
Screw Torque	Nm	2543	2866		4390	4841
Overall Machine Specifications						
Oil Volume	1		1020	1		1035
Overall Width x Height	mm	2258	x 2522		2258	x 252
Overall Length	mm		9738			10402
Overall Weight	t		27.6			28.9

Notes: (1) Available stroke at maximum shutheight / maximum stroke at minimum shutheight.

(2) 100% speed, 100% clamp force using 350 mm stroke.

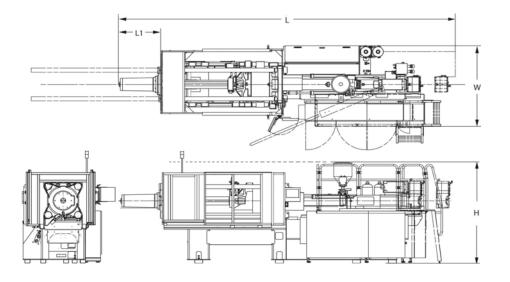
(3) Additional zones provided for barrel head, nozzle adapter, and optional shut-off head.

(4) Instantaneous injection rate at 2/3 of maximum available plastic pressure up to 30% injection stroke.

(5) Please consult Husky for final resin specific plasticizing performance for your application.

(6) Maximum 60% stationary platen, 40% moving platen

Specifications are subject to change without notice.



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H500 Clamp Clamp Force kΝ 5000 Tiebar Spacing (Horizontal x Vertical) 1020 1020 mm х Platen Size (Horizontal x Vertical) mm 1440 1480 х Clamp Stroke (1) 850 1450 mm 1 Shutheight (Min / Max) mm 350 / 950 Daylight 1800 mm Ejector Stroke mm 136 Ejector Force kΝ 187 Tiebar Diameter mm 168 Maximum Mold Weight (6) 10400 kg Dry Cycle (2) s 1.51

RS Injection Model			RS80		RS95	
Working Capacity			2651		4756	
Screw Diameter	mm	65	70	80	8	35
Screw L/D		27.1	25.0	26.7	25	5.0
Injection Pressure	bar	2350	2030	2280	20	020
Injection Stroke	mm	340	340	415	4	15
Injection Capacity	cm ³	1128	1308	2086	23	355
Barrel Heat Power	kW	42.0	42.0	57.6	57	7.6
Barrel Control Zones (3)		5	5	6	(6
High Speed Accumulator Assist Injection Rate ⁽⁴⁾	cm ³ /s	3801	4408	3973	44	185
High Speed Accumulator Assist Air Shot Rate	cm ³ /s	6000	7000	6300	71	00
Carriage Force	kN	178	178	178	1	78
Melt Channel Diameter	mm	22	22	22	2	22
Screw Drive ⁽⁵⁾ HDPE MFI 1-6						
Screw Speed	RPM	294	273	239	2	25
Peripheral Screw Speed	m/s	1.0	1.0	1.0	1	.0
Screw Torque	Nm	3351	3776	5783	63	878
HDPE MFI 7-11						
Screw Speed	RPM	353	327.4	286	26	9.6
Peripheral Screw Speed	m/s	1.2	1.2	1.2	1	.2
Screw Torque	Nm	2543	2866	4390	48	341
Overall Machine Specifications						
Oil Volume	I.		1020		1035	
Overall Width x Height	mm	2352	x 2522	2383	х	2522
Overall Length	mm		11338		12002	
Overall Weight	t		32.0		33.3	

Notes: (1) Available stroke at maximum shutheight / maximum stroke at minimum shutheight.

- (2) 100% speed, 100% clamp force using 350 mm stroke.
- (3) Additional zones provided for barrel head, nozzle adapter, and optional shut-off head.
- (4) Instantaneous injection rate at 2/3 of maximum available plastic pressure up to 30% injection stroke.
- (5) Please consult Husky for final resin specific plasticizing performance for your application.
- (6) Maximum 55% stationary platen, 45% moving platen

Specifications are subject to change without notice.

