

UMA Accumulator Head



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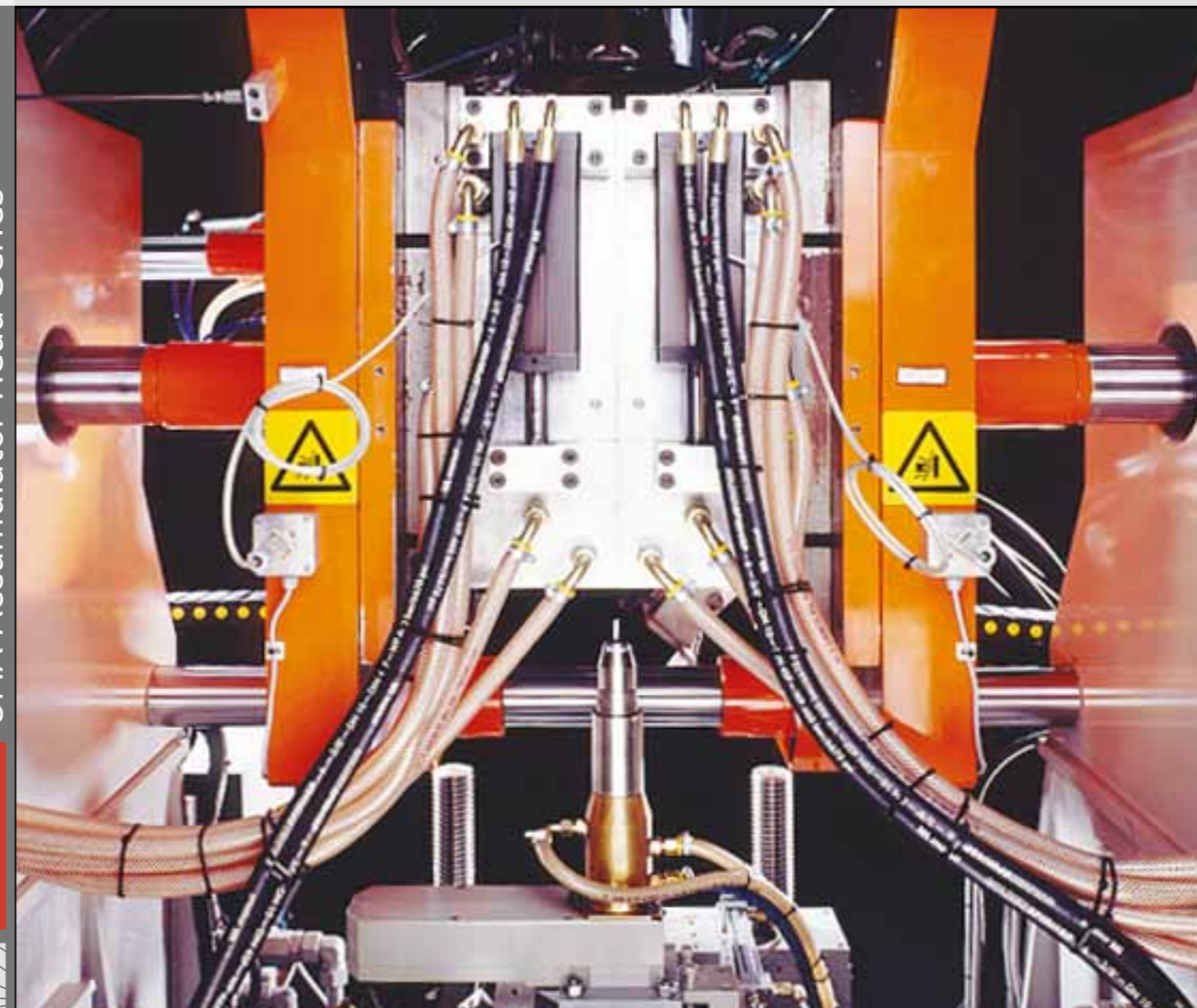
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□ ACCUMULATOR HEAD BLOW MOLDING MACHINES

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UNILOY MILACRON UMA Accumulator Head Series



Accumulator Head Series

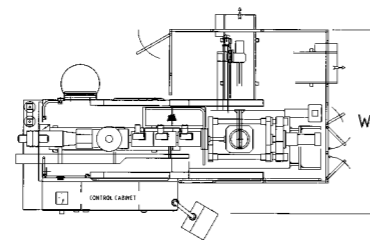
UMA

- AUTOMOTIVE
- CONSUMER
- INDUSTRIAL
- MEDICAL
- TECHNICAL

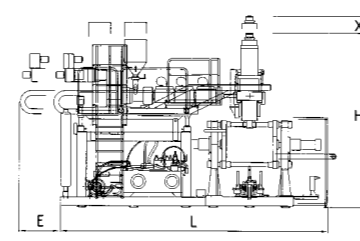
□ Accumulator head blow molding machines

UMA Accumulator Head Series

MODEL		UMA 20	UMA 30	UMA 40	UMA 50	UMA 60	UMA 70	UMA 85	UMA 120	UMA 170
Standard extruders (diameter)	(1) mm	60 - 70 - 80	70 - 80 - 90	80 - 90 - 100	80 - 90 - 100	90 - 100 - 120	90 - 100 - 120	100 - 120 - 150	120 - 150 - 2x120	120 - 150 - 2x120
Standard heads (model)	(1)	HV1 - GP3 - GP4	GP3 - GP4 - GP6 HV6	GP6 - GP8 - GP11 HV6 - HV9	GP6 - GP8 - GP11 HV6 - HV9	GP11 - GP17 - GP21 HV9 - HV12 - HV16	GP11 - GP17 - GP21 HV9 - HV12 - HV16	GP21 - GP30 HV20 - HV25	GP21 - GP30 - GP50 HV25 - HV40 - HV60	GP30 - GP50 - GP76 HV40 - HV60
CLAMP UNIT										
Clamp force	kN	220	300	400	500	600	700	850	1200	1700
Platens net dimensions (w x h)	(1) mm	600 x 600	600 x 800	800 x 1000	800 x 1200	800 x 1300	900 x 1300	1100 x 1400	1400 x 1700	1500 x 2000
Daylight between platens (minimum / maximum)	(2) mm	300 / 1000	400 / 1100	500 / 1300	500 / 1300	600 / 1500	600 / 1500	700 / 1700	1200 / 2500	1200 / 3000
Maximum mold weight	kg	900	1300	2200	2200	2800	2800	4000	5000	6000
HYDRAULIC UNIT										
Maximum pressure	bar	200	200	200	200	200	200	250	250	250
Pump motor power	kW	15	30	30	30	37	37	37	45	45
Tank capacity	lt	350	600	600	600	600	600	650	800	800
POWER / AIR / WATER REQUIREMENTS										
Total connected load (depending on configuration)	kW	72 - 126	108 - 170	140 - 193	140 - 193	168 - 267	168 - 267	204 - 348	277 - 508	277 - 522
Average power (depending on configuration)	kW	43 - 76	65 - 102	84 - 116	84 - 116	101 - 160	101 - 160	122 - 209	166 - 305	166 - 313
Compressed air requirement (min. 6 bar - max. 9 bar)	Nm ³ /h	45	65	80	80	110	110	180	350	350
Hydraulic unit + extruder cooling requirement	kJ/h	55.000 - 70.000	93.000 - 112.000	103.000 - 123.000	103.000 - 123.000	127.000 - 157.000	127.000 - 157.000	138.000 - 199.000	174.000 - 252.000	174.000 - 252.000
Hydraulic unit + extruder cooling water flow	(3) m ³ /h	2,0 - 2,4	3,7 - 4,1	3,9 - 4,4	3,9 - 4,4	4,8 - 5,5	4,8 - 5,5	5,1 - 6,5	6,3 - 8,2	6,3 - 8,2
Max. mold cooling requirement (HDPE)	kJ/h	75.000 - 126.000	93.000 - 156.000	126.000 - 192.000	126.000 - 192.000	156.000 - 258.000	156.000 - 258.000	192.000 - 396.000	258.000 - 516.000	258.000 - 516.000
Max. mold cooling water flow (HDPE) with Δt=4°C	(4) m ³ /h	4,5 - 7,5	5,6 - 9,3	7,5 - 11,4	7,5 - 11,4	9,3 - 15,4	9,3 - 15,4	11,4 - 23,7	15,4 - 30,8	15,4 - 30,8
MACHINE DIMENSIONS										
Width (W)	mm	3500	3900	3900	3900	4300	4300	5600	5850	6300
Length (L) + Stroke for extruder backwards (E)	mm	6000 + 900	6400 + 1200	7000 + 1300	7000 + 1300	8000 + 600	8000 + 600	9400	9700	10000
Height (H) + Extra stroke for head adjustment (X)	mm	3900 + 400	4200 + 400	4800 + 400	4800 + 400	5700 + 500	5700 + 500	6900 + 800	7400 + 900	7900 + 1000



UMA 20 - UMA 30 - UMA 40 - UMA 50 - UMA 60 - UMA 70



UMA 85 - UMA 120 - UMA 170

EXTRUDERS		60	70	80	90	100	120	150	150 L
Screw diameter / L:D ratio	mm	60 / 24	70 / 24	80 / 24	90 / 24	100 / 24	120 / 24	150 / 24	150 / 28
Max. screw speed	rpm	94	101	96	72	70	65	52	52
Electric motor power / Motor type	kW	30 / AC	42 / AC	64 / AC	72 / AC	88 / AC	138 / DC	206 / DC	280 / DC
Heating zones number / Total heating power	n° / kW	5 / 11	5 / 16	5 / 18	6 / 22	6 / 31	7 / 38	7 / 49	7 / 56
Max. output (HDPE with HLMFI ≥ 15)	(6) kg/h	125	155	210	260	320	430	660	820
Standard output (HDPE with HLMFI ≥ 15)	(7) kg/h	85	105	145	180	225	300	460	630
Standard output (VHMWPE with HLMFI = 2)	(7) kg/h	90	110	150	185	230	310	475	615

ACCUMULATOR HEADS - GP TYPE		GP 3	GP 4	GP 6	GP 8	GP 11	GP 17	GP 21	GP 30	GP 50	GP 76
Accumulation volume	lt	2,8	4,2	5,6	8,3	11,1	16,7	21,3	29,3	50	76,4
HDPE accumulation capacity	kg	2	3	4	6	8	12	16	22	36	55
Die diameter (minimum - maximum)	mm	40 - 220	40 - 220	60 - 300	60 - 300	100 - 350	100 - 350	125 - 450	125 - 450	180 - 550	350 - 950
Heating zones number / Total heating power	n° / kW	4 / 16	4 / 17	4 / 22	5 / 24	6 / 30	6 / 32	7 / 45	7 / 45	7 / 63	7 / 82

ACCUMULATOR HEADS - HV TYPE		HV 1	HV 2	HV 6	HV 9	HV 12	HV 16	HV 20	HV 25	HV 40	HV 60
Accumulation volume	lt	1,3	2,5	6	9	12	16	20	25	40	60
HDPE accumulation capacity	kg	0,9	1,8	4,3	6,5	8,6	11,5	14,4	18	28,8	43,2
Die diameter (minimum - maximum)	mm	10 - 100	10 - 150	80 - 250	80 - 250	115 - 320	115 - 320	150 - 400	150 - 400	300 - 630	300 - 630
Heating zones number / Total heating power	n° / kW	4 / 13	4 / 15	6 / 26	6 / 32	6 / 27	6 / 38	9 / 45	9 / 54	10 / 76	10 / 89

(1) Other configurations are available on request.
 (2) Mold thickness must exceed the minimum daylight between platens.
 (3) Net pressure: Δp = 5 bar - Max. intake temperature: 25°C.
 (4) Net pressure: Δp = 5 bar - Max. intake temperature: 10°C.

(5) Vertical dimensions do not include any hopper, feeder, or other accessories.
 (6) Max. output is measured at 100% screw speed with 100% virgin resin.
 (7) Standard output is measured at 80% screw speed with 70% virgin resin and master batch + 30% regrind material.
 Special screws for higher percentage of regrind material are available on request.