

Loader Hydraulic Cylinder Dims vs. Force.

Upsized Cylinder

	Bore		Rod Diameter		Stroke		Retracted Length		Extended Length		Tube O.D.		Pin Dia., Rod End		X-Tube Width, Rod End		Pin Dia., (Base) Tube End		Tube (Base) End Width		System Pressure PSI	Retract Force (Lbs.)	Retract Force (N)	Extend Force (Lbs.)	Extend Force (N)
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches					
ML205																					2200				
Curl Max28XL	35	1.38	25	0.984	425	16.7	650	25.6	1075	42.3	45.5	1.791	25	0.984	66	2.598	25	0.984	50	1.969		1607	7148	3281	14594
Lift Max28XL	45	1.77	30	1.181	380	15.0	620	24.4	1000	39.4	55.5	2.185	25	0.984	67	2.638	25	0.984	50	1.969		3013	13402	5423	24124
TL1000																					2950				
L39 Curl	60	2.36	35	1.378	360	14.2	575	22.6	935	36.8	70	2.756	30	1.181	60	2.362	61	2.402	60	2.362		8529	37940	12928	57509
L39 Lift	55	2.17	35	1.378	575	22.6	740	29.1	1315	51.8	65	2.559	30	1.181	60	2.362	60	2.362	80	3.150		6464	28754	10864	48323

OEM Cylinder

	mm		inches		mm		inches		mm		inches		mm		inches		mm		inches		System Pressure PSI	Retract Force (Lbs.)	Retract Force (N)	Extend Force (Lbs.)	Extend Force (N)	Force % Increase	Before Lbs	Bucket weight* Lbs	After Lbs	After* Lbs
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches												
ML205																					2200									
Curl Max28XL	40	1.57	25	0.984	425	16.7	650	25.6	1075	42.3	45.5	1.791	25	0.984	66	2.598	25	0.984	50	1.969		2611	11615	4285	19061	62.5	1800	220	2925	3063
Lift Max28XL	50	1.97	30	1.181	380	15.0	620	24.4	1000	39.4	55.5	2.185	25	0.984	67	2.638	25	0.984	50	1.969		4285	19061	6696	29783	23.5	1100	350	1358	1440
TL1000																					2950									
L39 Curl	66	2.60	35	1.378	360	14.2	575	22.6	935	36.8	70	2.756	30	1.181	60	2.362	61	2.402	60	2.362		11244	50017	15643	69586	31.8	3560	250	4693	4773
L39 Lift	60	2.36	35	1.378	575	22.6	740	29.1	1315	51.8	65	2.559	30	1.181	60	2.362	60	2.362	80	3.150		8529	37940	12928	57509	19.0	2200	700	2618	2751

Note

Lift capacities are at bucket center, Curl force is bucket edge.