

### Loader Hydraulic Cylinder Dims vs. Force.

#### OEM Cylinders

	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	49	1.929		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	66	2.598	25	0.984	50	1.969		3013	13402	5423	24124
TL1000																					2900				
L39 Curl	60	2.36	35	1.378	360	14.2	575	22.6	935	36.8	70	2.756	30	1.181	59	2.323	30	1.181	62	2.441		8385	37297	12709	56534
L39 Lift	55	2.17	35	1.378	575	22.6	740	29.1	1315	51.8	65	2.559	30	1.181	80	3.150	30	1.181	55	2.165		6355	28267	10679	47504

#### Upsized Cylinders

	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	Est. 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	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	1500	220	2438	2575
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																					2900									
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		11054	49169	15378	68406	31.8	3560	250	4693	4773
L39 Lift	60	2.36	38	1.496	575	22.6	740	29.1	1315	51.8	65	2.559	30	1.181	60	2.362	60	2.362	80	3.150		7611	33858	12709	56534	19.0	2200	700	2618	2751

Note

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

\*Bucket weight for Curl Function is estimate of 1/2 Loader Frame Weight, plus Bucket Weight for Lift Compensation & 1/2 Bucket Weight for Curl Compensation.