

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)
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		mm		inches		System Pressure PSI	Force % Increase	Before Lbs	Est. Bucket weight* Lbs	After Lbs	After* Lbs		
																									2200							
L39 Curl	65	2.56	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		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	3560	250	#REF!	#REF!
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		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	2200	700	#REF!	#REF!

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 Weigh for Lift Comensation & 1/2 Bucket Weight for Curl Compensation.