5161 W. Rio Vista Ave.
Tampa, FL 33634
813 – 515 – 5576
info@propactusa.com

General Product Rating Sheet – MacLean Power Systems

Shaft Size	Pile Shaft Designation	Rated Torsional Capacity (ft-lbs)[1]	Ultimate Mechanical Shaft Capacities for Axial Loading (lbs)[2]
1.50" Square Shaft	D6	5,500	68,000
1.50" Square Shaft (high str.)	D7	7,000	70,000
1.75" Square Shaft	D10	10,400	100,000
2.00" Square Shaft	D15	15,000	150,000
2.875" O.D. (0.203" wall)	P28	7,500	70,000
2.875" O.D. (0.276" wall)	P28H	8,000	90,000
3.500" O.D. (0.216" wall)	P35	11,400	100,000
3.500" O.D. (0.300" wall)	P35H	15,000	120,000
4.500" O.D. (0.237" wall)	P45	20,000	130,000
4.500" O.D. (0.337" wall)	P45H	26,000	180,000
8.625" O.D. (0.1875" wall)	R86L	40,000	200,000 compression[3] / 120,000 tension

1 Rated torsional capacity is based on strength of materials resisting torsional forces.
2 Mechanical capacity for axial loads are based on strength of materials of the pile to resist axial (compression and tension) loading.
Actual in place loads may not reach the ultimate mechanical capacities due to soil types, helix configuration or design methodology.
3 Higher axial resistance may require filling the pile shaft with grout and possibly rebar following installation.

Helical Foundations Systems Engineering Manual
Updated August 2025