

# Tubular Motors

## Theoretical Lifting Capacity

Theoretical Lifting Capacity is an indicator of the torque aptitude of a motor without consideration of factors that impact the actual load value, such as tube diameter, length and deflection, friction and system loss, material dimensions and accessories used.

For all published motor theoretical lifting capacities, an additional 25% safety factor is excluded from the max published lifting capacity to achieve optimal performance of the Motor, MaestroShield strongly suggest utilization of full line of MaestroShield Brand accessory components.

Description	Speed (RPM)	Theoretical Lifting Capacity — in Pounds							
		25mm Tube	35mm Tube	40mm Tube	50mm Tube	60mm Tube	70mm Tube	86mm Tube	100mm Tube
Silent Series 1 Nm Motor, 24V	20	13 lbs	10 lbs	8 lbs					
Silent Series 3 Nm Motor, 120V	28				20 lbs	17 lbs	14 lbs		
Silent Series 6 Nm Motor, 120V	28				40 lbs	33 lbs	28 lbs		
Silent Series 8 Nm Motor, 120V	19				53 lbs	44 lbs	38 lbs		
Smart Series 6 Nm Motor, 120V	28			50 lbs	40 lbs	33 lbs	28 lbs		
Smart Series 10 Nm Motor, 120V	30				66 lbs	55 lbs	47 lbs		
Smart Series 20 Nm Motor, 120V	30				134 lbs	112 lbs	94 lbs	77 lbs	66 lbs
Smart Series 30 Nm Motor, 120V	17				198 lbs	165 lbs	141 lbs	115 lbs	99 lbs
Smart Series 40 Nm Motor, 120V	12				264 lbs	220 lbs	189 lbs	153 lbs	132 lbs
Smart Series 50 Nm Motor, 120V	12				330 lbs	275 lbs	236 lbs	192 lbs	165 lbs
Harmony Series DC 0.7 Nm Motor, 12V	34	9 lbs	7 lbs	6 lbs					
Harmony Series DC 3 Nm Motor, 12V	24			25 lbs	20 lbs	17 lbs	14 lbs		
Harmony Series DC 6 Nm Motor, 12V	24			50 lbs	40 lbs	33 lbs	28 lbs		
Harmony Series DC 20 Nm Motor, 12V	14				132 lbs	110 lbs	94 lbs	77 lbs	66 lbs
Harmony Series DC 35 Nm Motor, 12V	7				231 lbs	193 lbs	165 lbs	134 lbs	116 lbs

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## Theoretical Lifting Capacity (cont.)

Description	Speed (RPM)	Theoretical Lifting Capacity — in Pounds							
		25mm Tube	35mm Tube	40mm Tube	50mm Tube	60mm Tube	70mm Tube	86mm Tube	100mm Tube
Harmony Series AC 6 Nm Motor, 120V	33			50 lbs	40 lbs	33 lbs			
Harmony Series AC 10 Nm Motor, 120V	32				66 lbs	55 lbs			
Harmony Series AC Prodigy Series 20 Nm Motor, 120V	19				132 lbs	110 lbs	94 lbs	77 lbs	66 lbs
Harmony Series AC Prodigy Series 20 Nm Motor, 120V	32				132 lbs	110 lbs	94 lbs	77 lbs	66 lbs
Harmony Series AC Prodigy Series Clutch Release 50 Nm Motor, 120V	13				330 lbs	275 lbs	236 lbs	192 lbs	165 lbs
Harmony Series AC Aria Series 100Nm Motor, 120V	11						471 lbs	384 lbs	330 lbs
Prodigy Series 30 Nm Motor, 120V	14				198 lbs	165 lbs	141 lbs	115 lbs	99 lbs
Prodigy Series 40 Nm Motor, 120V	14				264 lbs	220 lbs	189 lbs	153 lbs	132 lbs
Aria Series 60 Nm Motor, 120V	14						283 lbs	230 lbs	198 lbs
Aria Series 80 Nm Motor, 120V	14						377 lbs	307 lbs	264 lbs
Aria Series 120Nm Motor, 120V	9						566 lbs	460 lbs	396 lbs
Encore Series 140Nm Motor, 120V	12								462 lbs
Encore Series 180Nm Motor, 120V	12								594 lbs
Encore Series 230Nm Motor, 120V	12								759 lbs
Encore Series 300Nm Motor, 120V	6								990 lbs
Encore Series 300Nm Motor, 120V	8								990 lbs