



# ML1000 Series

## HOLLOW SHAFT PRECISION ROBOTIC TRANSMISSION



### Description

The Motus Labs ML1000 series precision drive offers higher torque density than competing strain wave gearing with no compromise in performance. Motus Labs' patented design utilizes a series of cam-driven blocks that engage over 80% of the output ring surface area at all times. This design distributes load stresses over a much larger surface area, permitting the Motus M-DRIVE transmission mechanism to deliver much greater torque per unit size and volume than other technologies.

### Key Specifications (ML1000 Series)

Specification	ML1000-17-90	ML1000-20-104	ML1000-25-104	ML1000-32-104	ML1000-40-125
Rated torque	45 Nm	97 Nm	178 Nm	345 Nm	523 Nm
Repeated peak torque	90 Nm	174 Nm	356	690 Nm	1046 Nm
Momentary peak torque	180 Nm	348 Nm	712	1380 Nm	2092 Nm
Gear ratio	90:1	104:1	104:1	104:1	125:1
Mass	770 g	1400 g	2100 g	4500 g	7700 g
Target availability date	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q4 2020

Motus Labs reserves the right to change the M-DRIVE specifications representations.

### About Motus Labs

Motus Labs, LLC., located in Dallas, TX, designs, manufactures and markets robot drive transmissions. The Motus M-DRIVE is a new gearless drive technology that uses mating surfaces instead of traditional gear teeth. The Motus Labs M-DRIVE technology is protected under several U.S. and International patents.