



Specifications ⁽¹⁾

Specification	Units	Hercules 100	Hercules 200
Travel Options ⁽²⁾	mm	250, 400, 510, 650	250, 400, 510, 650
Motor Options (see Table #1 below) (X/Y)	-	(A - D)/(A - F)	(A - D)/(A - F)
Encoder Resolution (see Table #2 below)	-	A	B & C
Flatness of Travel (X/Y)	μm	± 25/± 25	± 15/± 10
Straightness of Travel (X/Y)	μm	± 20/± 20	± 10/± 15
Orthogonality (X-to-Y)	arc-sec	± 10	± 10
Accuracy (center travel) (X/Y)	μm	± 25/± 30	± 10/± 15
Repeatability	μm	± 15	± 5
Max Velocity ⁽³⁾	m/sec	2.0	2.0
Maximum Payload on X-axis	kg	20	20

Notes:

- (1) Specifications are stated per axis for Model HER-510-510-AA1 at midpoint of travel. Values may differ slightly for other models.
- (2) The longer length of optional LEB-S-6 motor coils reduces the standard X-axis and Y-axis travel by 120mm (± 60mm from center).
- (3) Maximum velocity may be limited by a combination of encoder resolution, controller input frequency, and supply voltage.
- (4) Dual Y-axis motor option only.

Table #1

Linear Motors

Code	Model
A	LC-050-200D
B	LC-050-200E
C	LEB-S-4
D ₍₂₎	LEB-S-6
E ₍₄₎	LC-075-200D
F ₍₄₎	LC-075-200E

Table #2

Encoder Resolution

Code	Model
A	5.0μm
B	1.0μm
C	0.5μm

Note:

X-axis carriage on the Y-axis moving beam.

