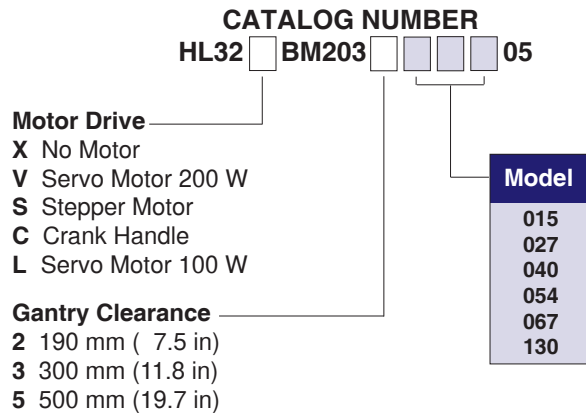


FEATURES:

- Replaces Gantry System III
- Moving gantry provides large stationary work surface
- All axes provided with home reference switch and far end limit switch with ± 0.01 mm (± 0.0004 in) repeatability
- Y-Axis is provided with aluminum dust cover and plastic lip seals to provide protection against contaminants
- X-Axis bearings and drive screw are mounted beneath the work surface to protect them from dust and debris
- 2 patented double linear rails and 4 patented double bearing blocks on each axis
- Models 027, 040, 054 & 067 feature 125 oz-in stepper motors, model HL2600M210001
- Model 130 features 150 oz-in stepper motor, model HZ2600M210002
- All models with 200W servo motor option feature motor model HZ2600M1050XY3 with line driver optical rotary encoder, 1000 line
- Standard antibacklash ball screw and nut, 16 mm diameter with 5 mm pitch
- Heavy cast aluminum side plates support the Y-Axis and provide increased stiffness for cutting and positioning applications
- Standard clearance under the gantry is 190 mm (7.5 in) (optional gantry clearance heights of 300 mm (11.8 in) and 500 mm (19.7 in) available)
- Work surface constructed of flat milled 30 x 250 mm (1.2 x 9.8 in) aluminum table plates
- Plastic guards not included



XY GANTRY SELECTION

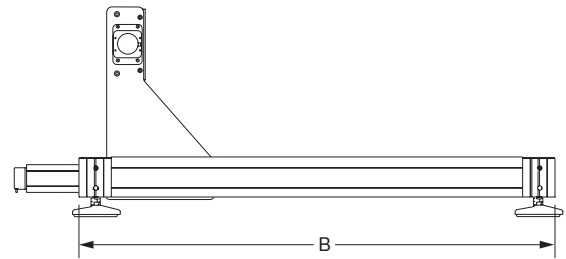
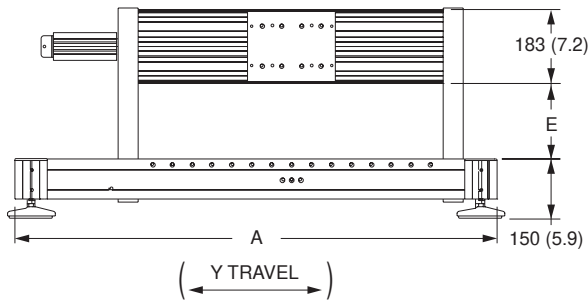


Model	Table Size mm (in)	Travel (X – Y) mm (in)
015	600 x 500 (23.6 x 19.7)	350 x 290 (13.8 x 11.4)
027	850 x 750 (33.5 x 29.5)	500 x 530 (19.7 x 20.9)
040	1100 x 750 (43.3 x 29.5)	750 x 530 (29.5 x 20.9)
054	1350 x 750 (53.1 x 29.5)	1000 x 530 (39.4 x 20.9)
067	1350 x 1000 (53.1 x 39.3)	850 x 780 (33.5 x 30.7)
130	1750 x 1250 (68.9 x 49.2)	1250 x 1030 (49.2 x 40.6)

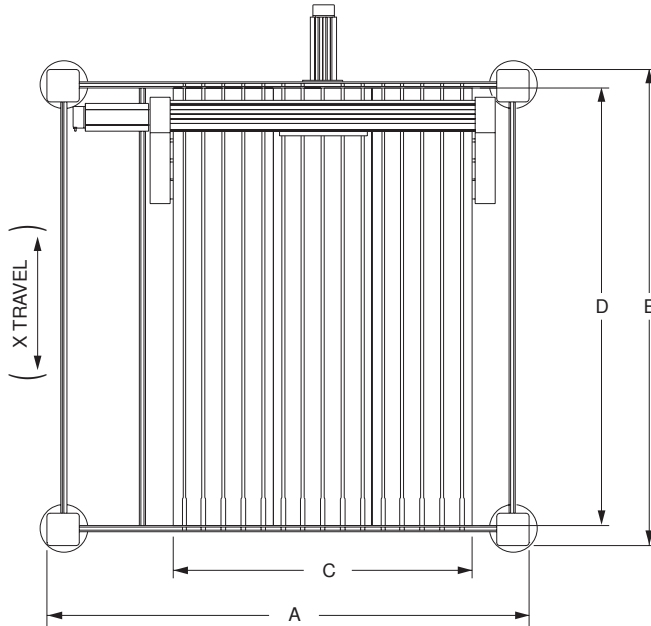
EXAMPLE: To order an XY Gantry System with Stepper Motor (S), 190 mm Gantry Clearance (1) & 500 x 530 mm Travel (027), the Catalog Number is **HL32SBM203202705**.

An XYZ Gantry SystemFB2 consists of an XY Gantry and a Z-Axis selected from page ??.

For mating connectors and cables, see page ???. For machine stands, see page ???. For motor standoff and couplings, see page ???.



NOTE: Dimensions in () are inch.



Model	Travel		A mm (in)	B mm (in)	C mm (in)	D mm (in)	E mm (in)
	X mm (in)	Y mm (in)					
015	350 (13.8)	290 (11.4)	900 (54.4)	666 (26.2)	500 (19.7)	600 (23.6)	125 (4.9)
027	500 (19.7)	530 (20.9)	1210 (47.6)	946 (37.2)	750 (29.5)	850 (33.5)	190 (7.5)
040	750 (29.5)	530 (20.9)	1210 (47.6)	1196 (47.1)	750 (29.5)	1100 (43.3)	190 (7.5)
054	1000 (39.4)	530 (20.9)	1210 (47.6)	1446 (56.9)	750 (29.5)	1350 (53.1)	190 (7.5)
067	850 (33.5)	780 (30.7)	1460 (57.5)	1446 (56.9)	1000 (39.4)	1350 (53.1)	190 (7.5)
130	1250 (49.2)	1030 (40.6)	1710 (67.3)	1846 (72.7)	1250 (49.2)	1750 (68.9)	190 (7.5)

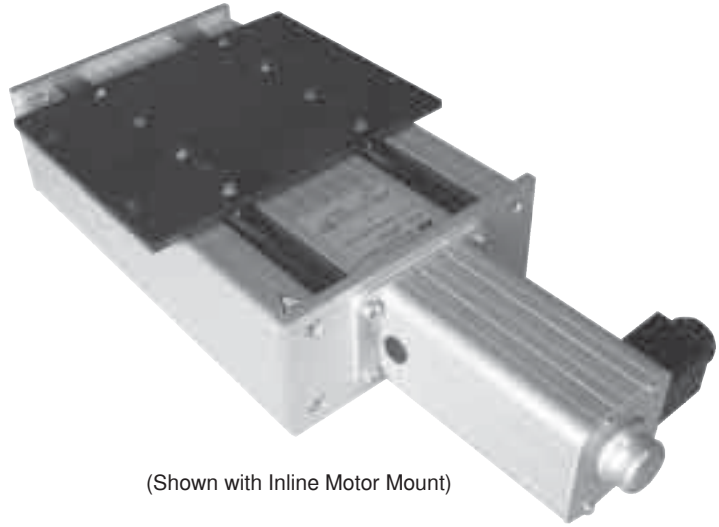
SPECIFICATIONS		
Repeatability	±0.01 mm (± .0004 in)	
Accuracy	± 0.1 mm / 300 mm (± .004 in / 12 in)	
Max. Z-Axis Load	22.7 kg (50 lb)	
Motor Drives	Stepper	Servo
No-Load Speed	127 mm / sec (5 in / sec)	152 mm / sec (6 in / sec)
Thrust Force at Low Speed	91 kg (200 lb)	113 kg (250 lb)
Resolution	0.0125 mm (.0005 in)	0.0025 mm (.0001 in)

NOTES ON SPECIFICATIONS:

Stepper motor is **HL2600M210001** for models 027, 040, 054, 067 and **HL2600M210002** for Model 130, as described on page ???, half-step mode, with 4.5A / phase, 40V chopper driver. 200W Servo motor is model **HZ2600M1050XY3** as described on page ???, operating with 6A / 80V chopper amplifier and 1000 line encoder operating in quadrature. These figures will of course vary with different loads, amplifiers and acceleration profiles provided by the controller.

FEATURES:

- 4 T-Slots on 50 mm (1.97 in) centers are provided to mount tooling
- Home reference switch and far end limit switch with ±0.01 mm (± .0004 in) repeatability
- Aluminum dust cover with plastic lip seals to provide protection against contaminants
- All models with stepper motor option feature 150 oz.-in stepper motor, model HL2600M210100
- All models with 200W servomotor option feature motor model HZ2600M0242610 with line driver optical rotary encoder, 1000 line. 100W servomotors use HZ2600M0243610
- Features 2 patented double linear rails and 4 patented double bearing blocks
- Standard antibacklash ball screw and nut, 16 mm (.6 in) diameter with 5 mm (.2 in) pitch
- Slide to slide mounting surface is flat milled aluminum 220 x 175 x 8 mm (8.7 x 6.9 x .3 in) with 4 holes counterbored for M6 cap screws
- Self-locking magnetic brake to maintain carriage position when power to the motor is turned off or interrupted. 200 mA, 24V DC is required to disengage brake
- Slide can be ordered with side-mounted motor



(Shown with Inline Motor Mount)

Z-AXIS SLIDE SELECTION

CATALOG NUMBER

HL31 M

- Motor Drive**
- X No Motor
 - V Servomotor (200W)
 - L Servomotor (100W)
 - S Stepper motor

- Motor Mount Type**
- B Inline
 - K Side Mount

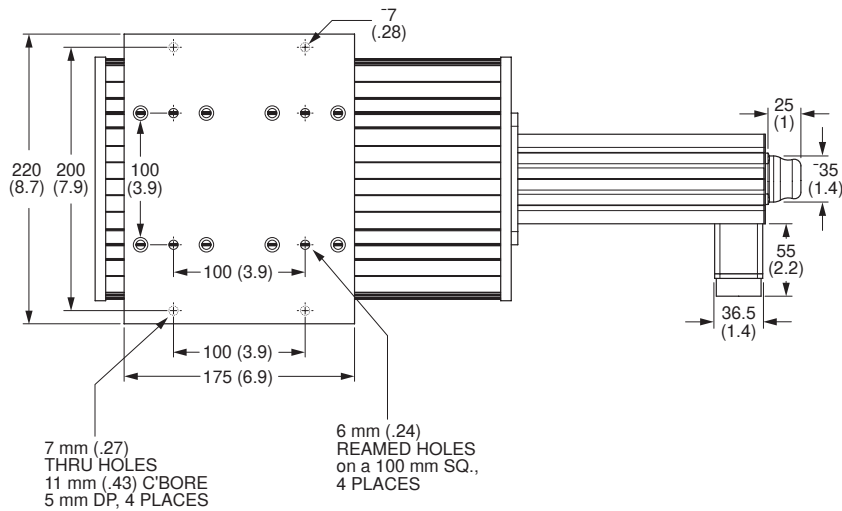
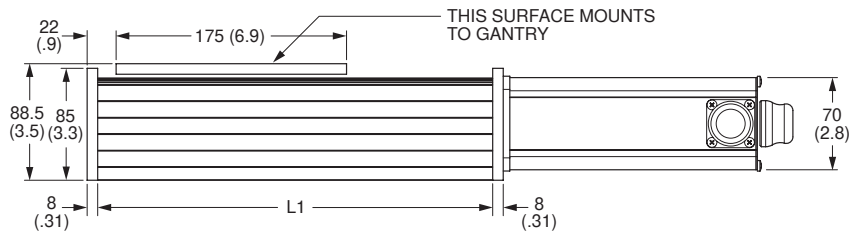
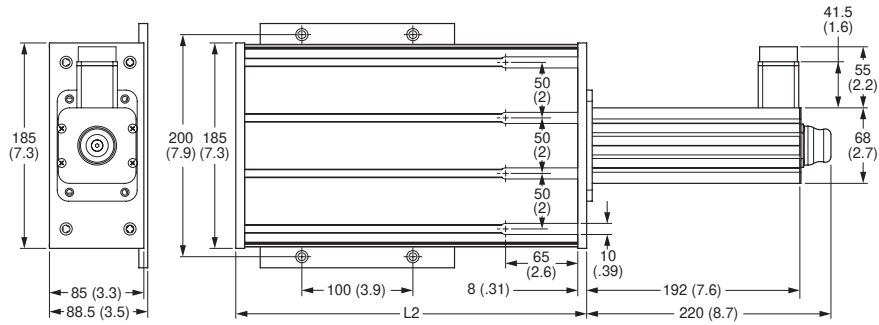
Code
512030005
512040005
512050005
512070005

Code	L1 Length mm (in)	L2 Length mm (in)	Travel mm (in)	Weight kg (lb)	
				Stepper	Servo
512030005	300 (11.8)	316 (12.4)	80 (3.1)	9 (20)	9.5 (21)
512040005	400 (15.7)	416 (16.4)	175 (6.9)	11.3 (25)	11.8 (26)
512050005	500 (19.7)	516 (20.3)	275 (10.8)	15.9 (35)	16.3 (36)
512070005	700 (27.6)	716 (28.2)	475 (18.7)	20 (44)	20.4 (45)

EXAMPLE: To order a Z-Axis Slide with a 200W Servomotor (V), Inline Motor Mount Type (B) with 275 mm (10.8 in) Travel, the Catalog Number is **HL31VBM512050005**

For mating connectors and cables, see page ???. For motor standoffs and couplings, see page ???.

Z-Axis Slide for Gantry III / FB2



NOTE: Dimensions in () are inch.

(Refer to Web site for complete drawings)
(Shown with Stepper Motor option)

SPECIFICATIONS		
Repeatability	±0.01 mm (±.0004 in)	
Accuracy	±0.1 mm / 300 mm (±.004 in / 12 in)	
Max. Z-Axis Load	22.5 kg (50 lb)	
Motor Drives	Stepper	Servo
No Load Speed	127 mm / sec (5 in / sec)	152 mm / sec (6 in / sec)
Thrust Force at Low Speed	91 kg (200 lb)	113 kg (250 lb)
Resolution	0.0125 mm (.0005 in)	0.00125 mm (.00005 in)

For notes on specifications to produce this data, refer to page xxx.