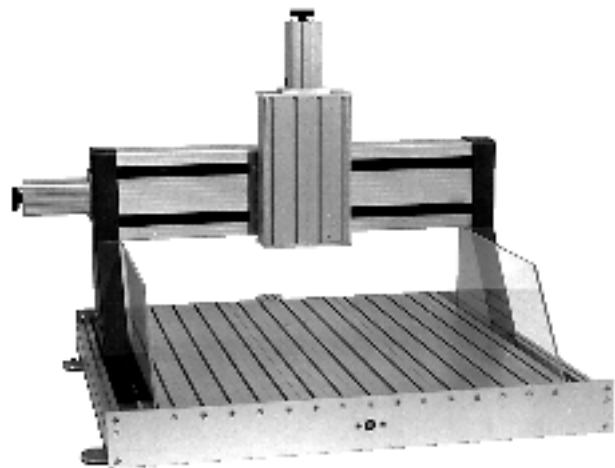


FEATURES

- ◆ Moving gantry provides large stationary work surface
- ◆ All axes provided with home reference switch and far end limit switch with ± 0.01 mm 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 015, 027, 040, 054 & 067 feature 125 oz•in stepper motors, model HL2600M210001
- ◆ Model 130 features 150 oz•in stepper motor, model HL2600M210002 on bottom axis
- ◆ All models with servo motor option feature motor model HZ2600M1050XY3 with line driver optical rotary encoder, 1000 line
- ◆ Standard anti-backlash 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 200 mm (optional gantry clearance heights of 300 mm and 500 mm available)
- ◆ Work surface constructed of flat milled 30 x 250 mm aluminum table plates
- ◆ Plastic guards not included



Z MACHINES & SLIDES

XY GANTRY SELECTION

CATALOG NUMBER
HL32 M201 05

Motor Drive
X No Motor
V Servo Motor
S Stepper Motor
C Crank Handle

Screw Type
B Ball Screw
X No Screw

Gantry Clearance
***2** 200 mm
3 300 mm
5 500 mm

XYZ GANTRY SELECTION

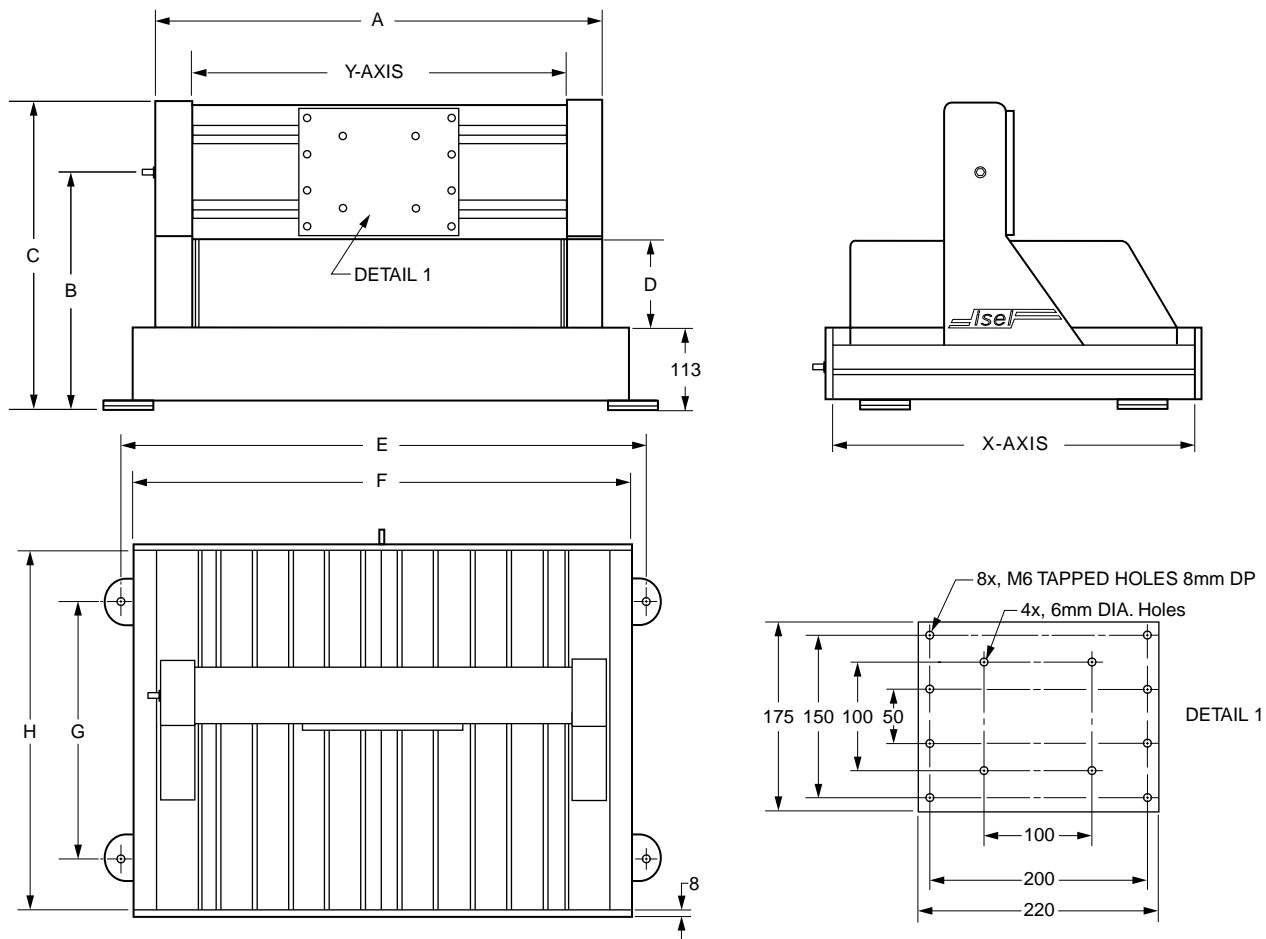
An XYZ Gantry III consists of an XY Gantry III and a Z-Axis selected from page 66.

Model	Table Size mm (in)	Travel (X – Y) mm (in)
*015	600 x 500 (23.6 x 19.6)	350 x 290 (13.7 x 11.4)
027	850 x 750 (33.4 x 29.5)	500 x 540 (19.6 x 21.2)
040	1100 x 750 (43.3 x 29.5)	750 x 540 (29.5 x 21.2)
054	1100 x 750 (53.1 x 29.5)	1000 x 540 (39.3 x 21.2)
067	1350 x 1000 (53.1 x 39.3)	850 x 790 (33.4 x 31.1)
130	1750 x 1250 (68.8 x 49.2)	1250 x 1040 (49.2 x 40.9)

EXAMPLE: To order an XY Gantry System with Stepper Motor (**S**), Ball Screw (**B**), 200 mm Gantry Clearance (**2**) & 500 x 540 mm Travel (**027**), the Catalog Number is **HL32SBM201202705**.

*Gantry clearance on **Model 015** is 125 mm.

For mating connectors and cables, see page 166. For machine stands, see page 130. For motor standoffs and couplings, see page 132.



2 MACHINES & SLIDES

Model	Travel mm		A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
	X	Y								
015	350	290	620	328	425	125	869	824	456	610
027	500	540	870	393	490	190	1119	1074	685	850
040	750	540	870	393	490	190	1119	1074	935	1100
054	1000	540	870	393	490	190	1119	1074	1185	1350
067	850	790	1120	393	490	190	1224	1184	1185	1350
130	1250	1040	1370	393	490	190	1474	1434	1585	1750

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 015, 027, 040, 054, 067 and **HL2600M210002** for Model 130, as described on page 152, half step mode, with 4.5A / phase, 40V chopper driver. Servo motor is model **HZ2600M1050XY3** as described on page 164, 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.