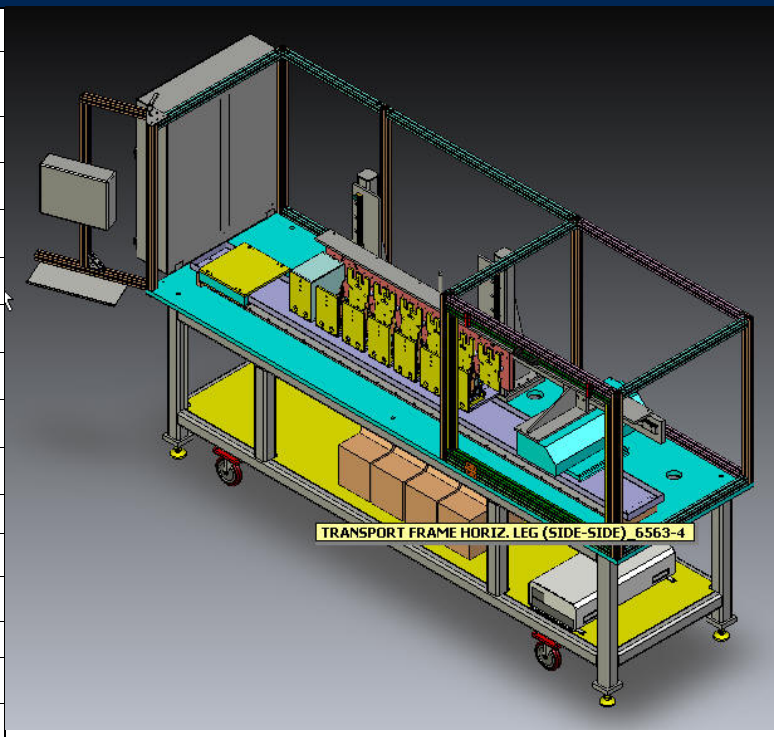
LR1000 Linear Print Rig

Specifications (Standard Configuration)	
Frame	Single painted frame, with casters and leveling pads
Enclosure	Enclosed lamp box & protective guarding
Linear slide	Parker Dual rail slide
	Low cogging torque, dual magnet motor
	Max scan speed of 150 fpm
	Max acceleration of 4g with 10lb load
	Nominal scan length of 96 inches
	Fixed Z (height), adjustable Y position sled
	1 micron optical encoder
Slide Controller	Galil 4000 series single axis controller
	Brushless amplifier
	Enclosure for controller
High Level Machine Controller	Rack mounted PC
	ELO Touch screen monitor
	Motion control software
Head mounting Structure	Movable back plate with lift cylinder
	Linear Rail to provide precise alignment of
	Mounting for 6 printheads on a 6 inch pitch
	¼-20 tapped holes on 2 inch centers for additional mounting options
UV Cure Lamp	Mounting for customer specified curing lamp system (Lamp not supplied)
Options	*Light safety screen*
	Printhead Mounts *Up to 6 fixed printhead modules consisting of 4 Xaar Leopard heads, 2 TTEC CE2 or 24 Spectra S Class printheads for each module.*
	Jetrion 3000 series printhead mount supporting up to 4 head assemblies
	Servo or pneumatic back plain adjustment
	Ink supply system for Xaar Printheads
	Water heaters
	PLC to control various machine elements (Beckhoff or Siemens)
	Multi-axis servo controller
	5 micron Encoder
	UV Cure lamp, IT or Honle lamp with mounts



LR 1000 Linear Print Rig

The LR1000 Linear print rig provides a solid yet versatile platform on which many varied print simulations can be run. Rigid heavy gauge welded steel frame structure provides rigid stable platform on which to perform the most demanding experiments.

Bread board style back plan provide mounting options for various print head combinations as well as for pre and post processing elements such as heaters and tack lamps. Entire back moves vertically on linear rails with a hydraulic cylinder to provide easy adjustment for print height variations and for quick set up.

The dual magnet motor provides high acceleration and uniform consistent motion with extremely low cogging ripple. The precision dual rail system is mounted and aligned to proved a maximum of 25 microns of error in both the Y and Z directions over the length of the travel.

Optional head module mounts are available for various print heads including for Xaar Leopard, TTEC Grayscale, Spectra S Class and Jetrion 3000 series head modules.

UV cure lamp mounting and enclosure provide flexibility for various lamp assemblies.

CUSTOMIZATION

The LR1000 can be customized to fit most customer specific applications. Typical customizations include longer slides, higher velocities and custom holders to print on 3 dimensional objects.

Phone: 585.615.5262

Version 1.0 3/07

Specifications subject to change with out notice.
All Trademarks are properties of their respective owners.