



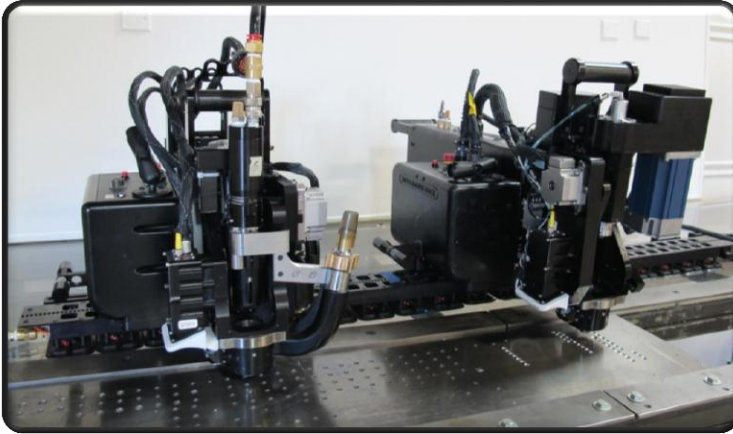
# MINI FLEX TRACK

## SYSTEMS (SHEET 1)

MINI FLEX TRACK LIGHT DUTY (MFT-LD)  
MINI FLEX TRACK HEAVY DUTY (MFT-HD)

### Key Features:

- Single person setup
- Intuitive and user friendly software interface
- Quick setup time and simple connections allow the system to be installed in under 5 minutes. (A demonstration video is available upon request)
- Quiet operation.
- Unlimited X-axis travel using linked vacuum rails (See Rail and Positioning Carriage data sheet).
- Variety of programmable drilling modes
- Automated A-axis normalization for longitudinal and orbital drilling. Flat to 80in (2000mm) radiuses on convex surfaces.
- Typical hole-to-hole cycle times of 6 to 12 Seconds.



MFT-LD

MFT-HD

### Technical Specifications:

	MFT-LD System (shown on left)	MFT-HD System (shown on right)
<b>Interchangeable modules</b> (see module data sheets)	Spliceable rails, Positioning Carriage, End Effectors	Spliceable Rails, Positioning Carriage, End Effectors
<b>Air supply requirements</b>	Dry @ 90 psi min (see module data sheets for cfm specs)	Dry @ 90 psi Minimum (see module data sheets for cfm specs)
<b>Supply voltage</b>	Universal AC: 85-264VAC, 1-phase 50/60Hz, 15A-30A	Universal AC: 85-264VAC, 1-phase 50/60Hz, 15A-30A
<b>Control modes</b>	Stand alone or Cell Controller for multiple MFT synchronization	Stand alone or Cell Controller for multiple MFT synchronization
<b>Stand alone user interface</b>	Industrial touch screen Windows tablet PC	Industrial touch screen Windows tablet PC
<b>Track to track connection</b>	Quick splice feature or fixed splice	Quick splice feature or fixed splice
<b>Communication interface</b>	Ethernet	Ethernet
<b>Positional accuracy</b>	.012 radial (0.3mm)	.012 radial (0.3mm)
<b>Drilling modes</b>	Peck, Micro Peck, Plunge, Stacks With Different Materials, Constant IPR Drilling	Peck, Micro Peck, Plunge, Stacks With Different Materials, Constant IPR Drilling
<b>Vision system</b>	Cognex camera	Cognex camera
<b>Drill lubricant</b>	Mist pulse	Mist Pulse and Through tool
<b>Spindle motor type</b>	Modular air spindle	DC Servo
<b>Spindle motor speeds options</b>	Fixed at 1,500, 3,700, 6,500 and 23,000 rpm	Variable Up To 3000, 6000, and 9000 RPM
<b>Spindle Thrust and Clamp Up Force</b>	Programmable up to 80 lbs (356N)	Programmable up to 300 lbs (1333N)
<b>Spindle collet type</b>	ER16	HSK-32A
<b>Recommended max drill dia.</b>	5/16 inch (8mm)	7/16 inch (11mm)
<b>Recommended min. drill size</b>	1/8 inch (3mm)	1/8 inch (3mm)
<b>Recommended max drill depth</b>	2 inches (50mm)	3 inches (76mm)
<b>Drill/countersink depth repeatability</b>	±0.001	±0.001
<b>A-axis travel</b>	+8 to -2 degrees from normal (convex surface)	+8 to -2 degrees from normal (convex surface)
<b>A-axis normality accuracy</b>	±0.3 degrees	±0.3 degrees
<b>X-axis velocity</b>	Programmable up to 8 inches/second (203 mm/sec)	Programmable up to 8 inches/second (203 mm/sec)
<b>Y-axis velocity</b>	Programmable up to 8 inches/second (203 mm/sec)	Programmable up to 8 inches/second (203 mm/sec)
<b>Standard y-axis stroke</b>	5.5 inches (140mm)	5.5 inches (140mm)
<b>FOD vacuum</b>	Can be fully automated and under control of machine	Can be fully automated and under control of machine
<b>Weight</b>	See individual module data sheets	See individual module data sheets
<b>Size (L x W x H)</b>	See individual module data sheets	See individual module data sheets

**For more information, demonstrations, or custom applications please contact a representative to discuss your specific requirements**



# MINI FLEX TRACK

## SYSTEMS (SHEET 2)

MINI FLEX TRACK LIGHT DUTY (MFT-LD)  
MINI FLEX TRACK HEAVY DUTY (MFT-HD)

### System Modules:

