What makes the world's best cutting technology?

# Low Ply Automated Cutting Machines







**Pathfinder** 

D<sub>1</sub>











### Fast, accurate cutting

The L-Series range delivers a reliable and highly productive conveyorised cutting system that will dramatically enhance the speed and quality of your cutting room. The base range of 12 models come with a host of features as standard and can be optioned up to deliver solutions to even the most demanding application.



### From silk to aramid

Whether you are a sample maker in the fashion industry or responsible for cutting challenging composite materials, upholstery fabrics or technical textiles, the advanced technology of the L-Series cutter will deliver consistent, trouble free and accurate cutting, time after time.

#### Pathfinder L-Series cutters standard features include:

- Windows® operating system
- PathCut® cutter operating software
- Touchscreen user interface
- Utility drawer
- Digital vacuum control 2 speed
- Vacuum Economiser® power saving function
- Import standard industry files DXF, HPGL, ISO RS274d, NTV, ESSI
- Common line deletion dynamic 'on the fly' calculation
- Notch identification and alteration
- Drill hole identification and transformation
- Cut line proximity awareness
- Automatic cutting window calculation- 'Whole piece cutting' where possible.
- Zoom and Scroll graphic finger gesture's
- Piece and cut order and identification
- Self diagnostics
- End cut Operator programmable
- Cutting small pieces first user definable
- Pre-set cutting parameters
- Multi-level user access parameter protection
- MultiCut<sup>™</sup> queuing of nested files
- QuickPath<sup>™</sup> automatic cut piece ordering to reduce dry haul

- Integration automatic cut job queuing, cutting list status and completed marker list
- Automatic selvedge waste cut at programmable intervals
- Self adjusting software parameters optimising cut quality
- Marker manipulation features, notch selection, rotation, flip, drill omission, scaling and more
- Conveyor advance pause automatic user definable
- Automatic conveyor advance distance & time user definable
- Automatic pause at piece selected
- Selection of pieces do not cut
- Automatic lay width checking
- System history file production cut file verification
- Power fail re-start sequence integrating intuitive operator prompts
- Maintenance Manager automatic reporting of maintenance requirements and schedule
- Head parking user definable
- Units display in metric, imperial/yards and inches
- Flaw avoidance- automatic piece movement avoiding material flaws
- Recut Selection of single piece or from piece number
- Multi-language supported
- Roll feeder (bar and cradle feeding)

## What makes the world's best cutting technology?

# A range of fully customisable models for multiple applications

A single L-Series cutter is suited to a wide variety of applications. Three widths are available:

- (1800mm/7 linches)
- (2200mm/89 inches)
- (3200mm/126 inches).

The cutting head can be fitted with four working tools at the same time including both Round Knife and Drag Knife, Marking Tool, and a Crease, Notch or Punch tool. Additionally there are a host of pre and post cutting productivity enhancing options for material loading, piece marking and bundling.



### Options that improve productivity



The Pathfinder range of high-precision cutting machines are designed and manufactured to deliver the very best results. Pathfinder engineers will discuss your particular requirement and configure a solution that will be perfectly tailored to your production environment. A full range of options are available to ensure you receive maximum results from your investment.

- ABR (Airbrush) non contact paint marking for difficult materials such as fibreglass
- ANT (Automatic Nesting) automatic pattern nesting. Available only with PTW.
- APM (Adaptive Pattern Matching) Bow & Skew adjustments for Stripes, motifs and pre-printed textiles
- BCR (Barcode Reader) automatic opening of production using barcodes
- DRG (Drag Knife) ultra fine cutting tool for specialty materials
- HDC (Head Camera) camera dynamically interacts with PathCut for Matching
  and other functions
- IJP (Ink-Jet) mounted on the cutting head used for printing part identification
- JTP (JetPen) non contact high speed ink marking
- LSC (LS Convert) automatic conversion of native PLA & PLX file format
- MRK (Marking) tool holder accepting a variety of standard marking pens-seam lines/text etc.
- OFD (Offload Display) synchronised display of delivered cut parts
- OFP (Offload Printer) adhesive label (50mm x 35mm) synchronised with OFD and delivered cut parts
- OFJ (Offload Projector) synchronised projected display of delivered cut parts directly onto the material
- PRA (Production Analyst) remote access to production manager data standalone software
- PRM (Production Manager) integrated production reporting
- PTW (PathWorks®) integrated within PathCut® enabling pattern creation and nesting



### **Standard Roll Feeder**

Max roll weight = 80kgs (176lbs) Max roll dia: = 350mm (13.78in) Roll core: = C3 76mm (3in) Note: Standard roll feeding device included may not be suitable for all materials





Model Name refers to cutting width in cm

E= Extended cutting window version F= Felt cutting belt		L-180				L-220			
Characteristics		L-180	L-180-F	L-180-E	L-180-E-F	L- 220	L- 220-F	L-220-E	L-220-E-F
Max. cut Width	(mm/in)	1800 / 71	1800 / 71	1800 / 71	1800 / 71	2260 / 89	2260 / 89	2260 / 89	2260 / 89
Cutting Window Length	(mm/in)	1750 / 68.9	1750 / 68.9	3160/124.4	3160/124.4	1750 / 68.9	1750 / 68.9	3160/124.4	3160/124.4
Max. material thickness	(mm/in)	12/0.4	12/0.4	12/0.4	12/0.4	12/0.4	12/0.4	12/0.4	12/0.4
Max. cutting depth	(mm/in)	3 / 0.1	3 / 0.1	3 / 0.1	3 / 0.1	3 / 0.1	3 / 0.1	3 / 0.1	3 / 0.1
Speed (max) - p/min	(m/ft)	72 / 236	72 / 236	72 / 236	72 / 236	72 / 236	72 / 236	72 / 236	72 / 236
Acceleration (max) - p/s <sup>2</sup>	(m/in)	8/315	8/315	8/315	8/315	8/315	8/315	8/315	8/315
Width 'A'	(mm/in)	2290 / 90.2	2290 / 90.2	2290 / 90.2	2290 / 90.2	2750 /108.2	2750 /108.2	2750 /108.2	2750/ 108.2
Width 'B'	(mm/in)	1960 / 77.2	1960 / 77.2	1960 / 77.2	1960 / 77.2	2420 / 95.3	2420 / 95.3	2420 / 95.3	2420 / 95.3
Overall Length 'C'	(mm/in)	3640 / 143	3640 / 143	5050 / 199	5050 / 199	3640 / 143	3640 / 143	5050 / 199	5050 / 199
Weight (approx)	(Kg/Lb)	1000 / 2204	1000 / 2204	1200 / 2645	1200 / 2645	1200 / 2645	1200 / 2645	1400 / 3086	1400 / 3086
Cutting Belt		Urethane	Felt	Urethane	Felt	Urethane	Felt	Urethane	Felt
Supply									
Electrical/220-240V single phase	(kW)	3	3	3	3	3	3	3	3
Compressed air / I CFM	(bar/psi)	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90
Operating Environment									
Operating temperature - max	(°C/°F)	41/104	41 / 104	41 / 104	41/104	41/104	41/104	41/104	41/104
Humidity - max (non-condensing)	%	80	80	80	80	80	80	80	80
Noise	dBA	75	75	75	75	75	75	75	75

		L-320					
Characteristics		L-320	L-320-F	L-320-E	L-320-E-F		
Max. cut Width	(mm/in)	3200 / 126	3200 / 126	3200 / 126	3200 / 126		
Cutting Window Length	(mm/in)	1750 / 68.9	1750 / 68.9	3160/124.4	3160/124.4		
Max. material thickness	(mm/in)	12/0.4	12/0.4	12/0.4	12/0.4		
Max. cutting depth	(mm/in)	3 / 0.1	3 / 0.1	3 / 0.1	3 / 0.1		
Speed (max) - p/min	(m/ft)	72 / 236	72 / 236	72 / 236	72 / 236		
Acceleration (max) - p/s <sup>2</sup>	(m/in)	8/315	8/315	8/315	8/315		
Width 'A'	(mm/in)	3690 / 145	3690 / 145	3690/145	3690 / 145		
Width 'B'	(mm/in)	3360 / 132.3	3360 / 132.3	3360 / 132.3	3360 / 132.3		
Overall Length 'C'	(mm/in)	3640 / 143	3640 / 143	5050 / 199	5050 / 199		
Weight (approx)	(Kg/Lb)	1600 / 3527	1600 / 3527	2100 / 4629	2100 / 4629		
Cutting Belt		Urethane	Felt	Urethane	Felt		
Supply							
Electrical/220-240V single phase	(kW)	3	3	3	3		
Compressed air ICFM	(bar/psi)	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90		
Operating Environment							
Operating temperature - max	(°C/°F)	41 / 104	41 / 104	41 / 104	41/104		
Humidity - max (non-condensing)	%	80	80	80	80		
Noise	dBA	75	75	75	75		

#### Pathfinder Australia Pty Ltd

12 Dib Court Tullamarine, VIC 3043, Australia Ph: +61 3 9338 3471 Email: sales@pathfindercut.com Web: www.pathfindercut.com

Manufactured by

Pathfinder Cutting Technology LLC 1901 N Gaffey Street, Unit G San Pedro, CA, 90731, USA Tel: +1 (424) 342 9723 Email: salesusa@pathfindercut.com Web: www.pathfindercut.com



5623 – 5625 W74th Street Indianapolis, IN, 46278, USA Tel: +1 (317) 349 0002 Email: salesusa@pathfindercut.com Web: <u>www.pathfindercut.com</u>

Pathtinder uttina Technoloay