



# Digicon Series 3

## Specification

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### General

Handling	Left to right or right to left	
Maximum material thickness	0.45mm	0.018"
Minimum material thickness	0.05mm	0.002"
Maximum running speed die cutting	80m/min	210ft/min
Maximum running speed of FAST Track semi rotary	150m/min	492ft/min
Maximum running speed full rotary re register	150m/min	492ft/min
Minimum running speed	2m/min	6.6ft/min
Manual cross adjust movement	+/- 10.00mm	0.394"
Maximum material width	350mm	13.780"
Minimum material width	150mm	9.055"

### Unwind

Standard unwind diameter	800.00	31.496"
Maximum unwind diameter	1000.00mm	39.370"
Standard unwind shaft diameter	76.20mm	3.000"
Maximum adjustment web guide	+/- 25.40mm	1.000"

### Corona Treater

Corona power	1 - 3 KW
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### 25 Tonne flatbed hot foil & emboss

Standard foil tool thickness	6.35mm / 7.00mm	0.250"
Maximum diameter foil unwind	450.00mm	17.717"
Standard foil unwind shaft diameter	76.20mm	3.000"
Maximum adjustment web guide	305.00mm x 340.00mm	12.008" x 13.386"
Minimum foil pull	1.00mm	0.039"
Skew adjust of head	+/- 1°	
Maximum running speed with 304.80mm (12.000") repeat	52m/min	171ft/min
Maximum running speed with 622.30mm (24.500") repeat	72m/min	236.2ft/min
Maximum number of foils in web direction	3 Lanes	
Chase turn device	Yes	
Operational modes	Stroke & Rotary	
Maximum foil chase temperature	180°C	356°F
Blanket thickness	0.95mm	0.037"
Embossing tools	6.35mm female 1.15mm male	0.250" female 0.045" male
Intelligent foil save system	Yes	



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### BIG FOOT 50 Tonne flat bed hot foil & emboss

Standard foil tool thickness	6.35mm / 7.00mm	0.250"
Maximum diameter foil unwind	450.00mm	17.717"
Standard foil unwind shaft diameter	76.20mm	3.000"
Maximum hot foil stamp area (LxW)	410.00mm x 340.00mm	16.142" x 13.386"
Minimum foil pull	1.00 mm	0.039"
Skew adjust of head	+/- 1°	
Maximum running speed with 410.00mm (16.142") repeat	60m/min	197ft/min
Maximum running speed with 622.3mm (24.500") repeat	72m/min	236.2ft/min
Maximum number of foils in web direction	4 Lanes	
Maximum number of foils across web	4 Lanes	
Chase turn device	Yes	
Operational modes	Stroke & Rotary	
Maximum foil chase temperature	180°C	356°F
Blanket thickness	0.95mm	0.037"
Embossing tools:	6.35mm Female 1.15mm Male	0.250" Female 0.045" Male
Intelligent foil save system	Yes	

### Semi rotary hot foil & emboss

Unwind shaft diameter	76.20mm	3.000"
Maximum hot foil stamp width	320.00mm	12.598"
Minimum foil pull	1.00mm	0.039"
Maximum number of foils in web direction	40m/min	131ft/min
<b>Magnetic Cylinder</b>		
Standard tool thickness	0.71mm	0.028"
Maximum hot foil stamp repeat 482.00mm (25.500")	622.30mm	24.500"
Maximum hot foil stamp repeat 635.00mm (25.500")	457.20mm	18.000"
<b>Clamping Cylinder</b>		
Standard tool Thickness	1.000mm	0.039"
Maximum hot foil stamp repeat 482.00mm (19.000")	546.10mm	21.500"
Maximum hot foil stamp repeat 635.00mm (25.500")	381.00mm	15.000"



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### Flexographic printing station

Flexographic type	full rotary / full rotary re-reg / semi rotary	
Weight of ink cartridge (empty)	10kg	22lb
Maximum printing width	330.00mm	12.992"
Maximum rotary flexo plate cylinder size	647.70mm	25.500"
Minimum rotary flexo plate cylinder size	254.00mm	10.000"
Maximum repeat semi rotary with 647.70mm (25.5") cylinder	622.30mm	24.500"
Minimum plate repeat semi rotary	50.80mm	2.000"
Coating roller width - standard	325.00mm	12.795"
Accuracy to pre printed web	+/- 0.15mm	0.006"
Doctor blade carbon steel	15.00mm x 0.15mm	0.591" x 0.006"
Doctor blade M10 tipped trupoint orange synthetic	15.00mm x 0.7mm	0.591" x 0.028"
Ink pump duct connection inlet diameter	10.00mm	0.394"
Ink pump duct connection outlet diameter	25.00mm	0.984"

### Cold Foil

Cold foil semi rotary without chill roller maximum speed	27m/min	89ft/min
Cold foil semi rotary with chill roller maximum speed	40m/min	131ft/min
Cold foil full rotary with chill roller maximum speed	100m/min	328ft/min

### UV curing system

Type - low energy air cooled	GEW E2C	
Lamp arc length	380.00mm	14.961"
Lamp power	140-180w/cm	355.6w/inch

### Hot air dryer

Maximum temperature	100°C	212°F
Air flow	300m <sup>3</sup> /h	10594.4ft <sup>3</sup> /h

### Overlamination

Maximum unwind roll diameter	450.00mm	17.717"
Standard unwind/rewind shaft diameter	76.20mm	3.000"
Maximum rewind roll diameter	450.00mm	17.717"



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## Specification

### High speed flatbed screen printing

Repeat length	85.00mm-410.00mm	3.345"-16.142"
Minimum image (web direction)	10.00mm	0.300"
Maximum mechanical speed (repeat dependent)	48m/min	157ft/min
Screen skew adjustment	+/- 2°	
Screen deflection	0.00-8.00mm	0.000-0.310"
UV curing GEW E2C	180w/cm	457w/inch

### Die cutting station

Type	Semi rotary / Rotary	
Maximum die cut repeat on 647.7mm (25.500") cylinder semi rotary	622.30mm	24.500"
Minimum die cut repeat semi rotary	50.80mm	2.000"
Maximum die tool size rotary (option)	647.70mm	25.500"
Minimum die tool size rotary	304.80mm	12.000"
Maximum die cutting width	345.00mm	13.583"
Standard flexible die tool thickness	0.44mm to suit 0.48mm air gap	0.017" to suit 0.019" air gap
Accuracy to printed web	+/- 0.15mm	+/- 0.006"

### FAST Track high speed die cutting

**Granted patents:** GB2539385; AU2016269766

**Patent applications:** EP16725193.3; CA2,981,241; CN201680032146.1; US15/575,291; MX/a/2017/014510; BR 11 20170 22336 8; IN201717046345; JP2017-563237

Type	Semi rotary/Rotary	
Maximum die cutting width	345.00mm	
Standard flexible die tool thickness	0.44mm to suit 0.48mm air gap	0.017" to suit 0.019" air gap
Accuracy to printed web	+/- 0.15mm	+/- 0.006"

#### Dual anvil mode

Maximum die cut repeat	558.00mm	21.969"
Minimum die cut repeat	100.00mm	3.937"

#### Single anvil mode

Maximum die cut repeat	785.00mm	30.906"
Minimum die cut repeat	100.00mm	3.937"



# Digicon Series 3

## Specification

Waste matrix rewind		
Type	Standard / Contact	
Maximum rewind diameter	800.00mm	31.496"
Rail mounted contact waste matrix maximum diameter	450.00mm	17.717"

Rewind		
Maximum roll diameter upper shaft	600.00mm	23.622"
Maximum roll diameter lower shaft	800.00mm	31.496"
Standard rewind air mandrel size	76.20mm	3.000"

Slitting		
<b>Scissor slit</b> minimum slit width	15.00mm	0.591"
<b>Scissor slit</b> maximum number of knives	20	
<b>Autoslit</b> minimum slit width in edge trim mode	31.00mm	1.220"
<b>Autoslit</b> positional accuracy of slitting knives	+/- 0.10mm	0.004"
Autoslit standard		
Minimum slit width - excluding edge trim mode	24.00mm	0.945"
Maximum number of knives	12	
Autoslit option		
Minimum slit width - excluding edge trim mode	15.00mm	0.591"
Maximum number of knives	15	
<b>Crush slit</b> minimum slit width	14.00mm	0.551"
<b>Crush slit</b> maximum number of knives	16	
<b>Razor blade</b> minimum slit width	12.00mm	0.472"
<b>Razor blade</b> maximum number of blades	20	
<b>FAST slit</b> minimum slit width	27.00mm	1.063"
<b>FAST slit</b> maximum number of knives	10	

SGTR AutoSet turret rewinder		
Maximum roll diameter	400.00mm	15.478"
Maximum web width	350.00mm	13.780"
Standard rewind air mandrel size	76.20mm	3.000"
Maximum mandrel diameter	76.20mm	3.000"
Minimum mandrel diameter	25.40mm	1.000"
Rewind sleeve on 76.20mm (3.000") mandrel	101.60mm	4.000"
Maximum running speed	150m/min	492ft/min
Counting	Labels and Metres	
Interlabel cutting accuracy with a 3.00mm (0.118") interlabel gap	100m/min	328ft/min



# Digicon Series 3

## Specification

### Metal to metal through die cutter/sheeter

Sheeter tool repeat with 6 blades	304.80mm	12.000"
Sheet length increments	0.10mm	0.004"
Minimum sheet length	50.80mm	2.000"
Maximum running speed with 2 blades on a 304.80mm (12.000") sheet	120m/min	394ft/min
Maximum running speed with 3 blades on a 250.00mm (9.843") sheet	101m/min	331.4ft/min
Maximum running speed with 6 blades on a 125.00mm (4.921") sheet	62m/min	203ft/min
Print or label to sheet accuracy	+/- 0.15mm	0.006"
Die cutting mode with standard tool maximum running speed	150m/min	492.1ft/min

### Power requirements

Basic machine including GEW only (50hz)	380/415V 3PH, E & N 32AMP/PHS
Basic machine including GEW only (60hz)	208/220V 3PH & E 40AMP/PHS
Air requirements	6 BAR

### Dedicated sheeter

Fixed sheeter tool repeat	304.80mm	12.000"
Sheet length increments	0.10mm	0.004"
Minimum sheet length	50.80mm	2.000"
Maximum running speed with 2 blades on a 304.80mm (12.000") sheet	120m/min	394ft/min
Maximum running speed with 3 blades on a 250.00mm (9.843") sheet	101m/min	331.4ft/min
Maximum running speed with 6 blades on a 125.00mm (4.921") sheet	62m/min	203ft/min
Print or label to sheet accuracy	+/- 0.15mm	0.006"



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## Specification

Module dimensions - length (L) x width (W) x height (H)		
Inline interface	0.90m x 1.52m x 1.80m	2'11" x 4'12" x 5'11"
Unwind (800mm)	1.30m x 1.52m x 1.80m	4'3" x 4'12" x 5'11"
Unwind (1000mm)	1.40m x 1.59m x 1.90m	4'7" x 5'2" x 6'2"
25 Tonne flatbed hot foil and emboss	1.10m x 1.52m x 1.80m	3'7" x 4'12" x 5'11"
BIG FOOT 50 Tonne flatbed hot foil and emboss	1.80m x 1.52m x 2.00m	5'11" x 4'12" x 6'6"
Flexographic print including UV	1.10m x 1.52m x 1.80m	3'7" x 4'12" x 5'11"
Overlaminaton (self wound/with carrier)	Does not increase machine dimension	
High speed flatbed screen print	1.65m x 1.52m x 1.80m	5'5" x 4'12" x 5'11"
Die cutting module	1.10m x 1.52m x 1.80m	3'7" x 4'12" x 5'11"
FAST Track high speed die cutting	1.50m x 1.52m x 1.80m	4'11" x 4'12" x 5'11"
Laser die cutting	2.40m x 1.52m x 1.80m	7'10" x 4'12" x 5'11"
Mid press waste matrix rewind	0.60m x 1.52m x 1.80m	1'12" x 4'12" x 5'11"
Rewind	1.50m x 1.52m x 1.80m	4'11" x 4'12" x 5'11"
2 Spindle semi-auto turret including buffer & matrix stripping	3.00m x 1.52m x 1.80m	9'10" x 4'12" x 5'11"
SGTR AutoSet turret rewinder	1.73m x 1.65m x 2.00m	5'8" x 5'5" x 6'6"
Double crossover peel and reveal 3 ply	1.10m x 1.52m x 1.80m	3'7" x 4'12" x 5'11"
Sheeter (including conveyer)	1.80m x 1.52m x 2.00m	5'11" x 4'12" x 6'6"
Sheeter/through die cutter (excluding conveyer)	1.10m x 1.52m x 1.80m	3'7" x 4'12" x 5'11"
Conveyor - standard	1.10m x 1.52m x 1.80m	3'7" x 4'12" x 5'11"