

EFI Roll-to-Roll printers Print modes & Speeds



EFI VUTEk Q3r & Q5r (Updated September 5th, 2021)

4 colors

Print mode	Smoothing level	sqm		sqft	
		VUTEk Q3r	VUTEk Q5r	VUTEk Q3r	VUTEk Q5r
1 pass	-	558	6,006	672	7,233
2 pass	-	294	3,165	368	3,961
3 pass	-	229	264	2,465	2,842
5 pass	-	137	158	1,475	1,701
6 pass	-	107	123	1,152	1,324
Double Strike (DS)	0	100	115	1,076	1,238
	1	63	73	678	786
	2	53	61	570	657

4 colors + white

Print mode	Smoothing level	sqm		sqft	
		VUTEk Q3r	VUTEk Q5r	VUTEk Q3r	VUTEk Q5r
White only	0	116	134	1,249	1,442
	1	93	107	1,001	1,152
	2	58	67	624	721
WU	0	100	115	1,076	1,238
	1	77	89	829	958
	2	51	59	549	635
WO	2	33	38	355	409
CWC-Banner backlit	0	77	89	829	958
	1	51	59	549	635
	2	35	41	377	441
CWC-Banner backlit Day/Night	0	77	89	829	958
	1	51	59	549	635
	2	35	41	377	441

CWC-PET	2	35	41	377	441
CWC-PET Day/Night	2	35	41	377	441
CWBWC Day/Night	2	26	29	280	312

Special White modes

Print mode	Smoothing level	sqm		sqft	
		VUTEk Q3r	VUTEk Q5r	VUTEk Q3r	VUTEk Q5r
White Over DS	2	33	38	355	409
White Under DS	2	51	59	549	635
White only DS	2	33	38	355	409
C1WWC2	2	35	41	377	441

4 colors + coating

Print mode	Smoothing level	sqm		sqft	
		VUTEk Q3r	VUTEk Q5r	VUTEk Q3r	VUTEk Q5r
WU Coat Gloss	2	38	44	409	474
WU Coat Matte	1	70	80	753	861
WU Coat Matte	2	38	44	409	474
4C Coat Gloss	2	58	67	624	721
4C Coat Matte	2	63	73	678	786

7 colors

Print mode	Smoothing level	sqm		sqft	
		VUTEk Q3r	VUTEk Q5r	VUTEk Q3r	VUTEk Q5r
7C-6 Pass		116	134	1,249	1,442
7C-8 Pass		87	100	936	1,076
7C-12 Pass		58	67	624	721
7C-DS	2	50	57	538	614
7C-DS	1	63	73	678	786
7C-DS	0	87	100	936	1,076
7C WO	2	36	41	388	441
7C WU	2	48	55	517	592
7C CWC	2	36	41	388	441

7C CWC Day/Night	2	36	41	388	441
7C CWC Banner Backlit	2	36	41	388	441
7C CWC Banner Backlit Day/Night	2	36	41	388	441
7C CWBWC	2	26	29	280	312

7 colors + coating

Print mode	Smoothing level	sqm		sqft	
		VUTEk Q3r	VUTEk Q5r	VUTEk Q3r	VUTEk Q5r
7C-WU-Coat-Matte	2	40	46	431	495
7C-WU-Coat-Gloss	2	38	44	409	474
7C-Coat-Matte	2	66	76	710	818
7C-Coat-Gloss	2	58	67	624	721

- Speeds are calculated per 3.5m and 5.2m printing widths, respectively
- Speeds are not final and may be subject to change

VUTEk 3r+ & 5r+

4 colors

Print mode	Resolution	EFI VUTEk 3r+		EFI VUTEk 5r+		
		m ² /hr	ft ² /hr	m ² /hr	ft ² /hr	
4C-1 pass	318 x 600	406	4,370	487	5,242	
4C-2 pass	726 x 1200	198	2,131	238	2,562	
4C-3 pass	726 x 1200	134	1,442	160	1,722	
4C-4 pass	726 x 1200	95	1,023	114	1,227	
4C-5 pass *	726 x 1200	80	861	96	1,033	
4C-6 pass	726 x 1200	standard	62	667	75	807
		double strike	51	549	61	657
4C-12 pass	726 x 1200	standard	34	366	41	441
		double strike	31	334	37	398
4C-16 pass *	726 x 1200	25	269	31	334	

* Double Strike (DS) at same speed

4 colors + Double White

Print mode	Resolution	EFI VUTEk 3r+		EFI VUTEk 5r+		
		m ² /hr	ft ² /hr	m ² /hr	ft ² /hr	
White	726 x 1200	58	624	70	753	
White under	726 x 1200	31	334	37	398	
White over	726 x 1200	31	334	37	398	
CWC - 3 layers Color-white-color	726 x 1200	standard	23	248	27	291
		production	67	721	81	872
CWBWC - 5 layers Color-white-black-white-color	726 x 1200	16	172	20	215	

Additional multi-layer modes available

4 colors + Cleat coat

Print mode	Resolution	EFI VUTEk 3r+		EFI VUTEk 5r+		
		m ² /hr	ft ² /hr	m ² /hr	ft ² /hr	
4C + Clear coat	matte finish	726 x 1200	31	334	37	398
	glossy finish	726 x 1200	29	312	35	377

VUTEk 3r+ & 5r+ - additional configurations

- 4 Colors + single white
- 4 Colors + white - multi layers
- 7 colors
- 7 colors + white

VUTEk D3r & D5r

4 colors

Print mode	Resolution	EFI VUTEk D3r		EFI VUTEk D5r	
		m ² /hr	ft ² /hr	m ² /hr	ft ² /hr
1 pass	317 x 600	204	2,196	244	2,626
2 pass	726 x 1200	100	1,076	119	1,281
3 pass	726 x 1200	66	710	80	861
5 pass	726 x 1200	40	431	48	517
6 pass	726 x 1200	31	334	38	409
6 pass - double strike	726 x 1200	25	269	30	323

4 colors + white

Print mode		Resolution	EFI VUTEk D3r		EFI VUTEk D5r	
			m ² /hr	ft ² /hr	m ² /hr	ft ² /hr
White over	standard	726 x 1200	31	334	38	409
	production	726 x 1200	40	431	48	517
	color double strike	726 x 1200	25	269	30	323
White under	standard	726 x 1200	20	215	24	258
	quality	726 x 1200	16	172	19	205
	production	726 x 1200	33	355	40	431
	color double strike	726 x 1200	14	150	17	183
CWC - 3 layers Color-white-color	standard	726 x 1200	11	118	14	151
	day/night	726 x 1200	11	118	14	151
	production	726 x 1200	15	161	19	205
CWBWC - 5 layers	standard	726 x 1200	8	86	11	118
	production	726 x 1200	12	129	14	151

4 colors + Clear Coat

Print mode		Resolution	EFI VUTEk D3r		EFI VUTEk D5r	
			m ² /hr	ft ² /hr	m ² /hr	ft ² /hr
4C + clear coat	matte finish	726 x 1200	31	334	41	442
	glossy finish	726 x 1200	31	334	41	442

4 colors + White + Clear Coat

Print mode			Resolution	EFI VUTEk D3r		EFI VUTEk D5r	
				m ² /hr	ft ² /hr	m ² /hr	ft ² /hr
White under + clear coat	Matte finish	standard	726 x 1200	16	172	19	205
		production	726 x 1200	24	258	29	312
	Glossy finish	standard	726 x 1200	16	172	19	205
		production	726 x 1200	22	237	27	291

EFI Pro 32r+

4 colors

Print mode		Resolution	Pro 32r+	
			m ² /hr	ft ² /hr
Billboard		390 X 300	256	2,756
Distant view		390 X 600	207	2,228
Outdoor		390 X 600	134	1,442
Production		847 X 600	104	1,119
Indoor	standard	847 X 600	92	990
	double strike	847 X 600	46	495
POP		847 X 600	69	743
Quality	standard	847 X 600	52	560
	double strike	847 X 600	25	269
High Quality		847 X 600	44	474

4 colors + Clear coat

Print mode		Resolution	Pro 32r+	
			m ² /hr	ft ² /hr
4C + Clear coat- matte finish		847 X 600	30	323

4 colors + white

Print mode		Resolution	Pro 32r+	
			m ² /hr	ft ² /hr
White	standard	847 X 600	52	560
	white double strike	847 X 600	29	312
White over	standard	847 X 600	29	312
	high quality	847 X 600	23	242
White under	production	847 x 600	34	366
	standard	847 x 600	27	291
	high quality	847 X 600	23	242
	white double strike	847 x 600	19	205
CWC – 3 layers Color-white-color	standard	847 x 600	21	226
	day/night	847 x 600	21	226
	50% C1 or 50% C2	847 X 600	21	226
CWBWC- 5 layers -Color-white-black-white-color		847 X 600	15	161

Chart speeds were measured based on the maximum possible printing width:

- 348 cm (137 in) for 3m printers category
- 520 cm (204.7in) for 5m printers category
- 320 cm (126 in) for Pro 32r+

EFI Matan 3 & 5

4 colors

Print mode	Resolution	EFI Matan 3		EFI Matan 5	
		m ² /hr	ft ² /hr	m ² /hr	ft ² /hr
1 pass	159 x 150	299	3,218	353	3,800
2 pass Fine	318 x 300	147	1,582	173	1,862
3 pass PDS	635 x 300	96	1,033	114	1,227
5 pass PDS	318 x 600	56	603	66	710

4 colors + white

Print mode	Resolution	EFI Matan 3		EFI Matan 5	
		m ² /hr	ft ² /hr	m ² /hr	ft ² /hr
4 pass - white under	635 x 600	63	678	71	764
5 pass - white over	635 x 600	49	527	56	603
10 pass - white over	635 x 600	25	269	28	301
10 pass - CWC -3 layers	635 x 600	24	258	28	301
12 pass - white under	635 x 600	20	215	23	248

Chart speeds were measured based on the maximum possible printing width:

- 348 cm (137 in) for 3m printers category
- 520 cm (204.7in) for 5m printers category
- 320 cm (126 in) for Pro 32r+

Viewing Distances

Quality	Viewing distance		Recommended print mode
	feet	meter	
Ultra Quality	0-1	0-0.3	6 pass
High Quality	1-3	0.3-0.91	5 pass
POP Quality	3-6	0.91-1.8	3 pass / 4 pass
Production	6-10	1.8-3	2 pass / 3 pass
Distant View/Outdoor	10+	3+	1 pass / 2 pass