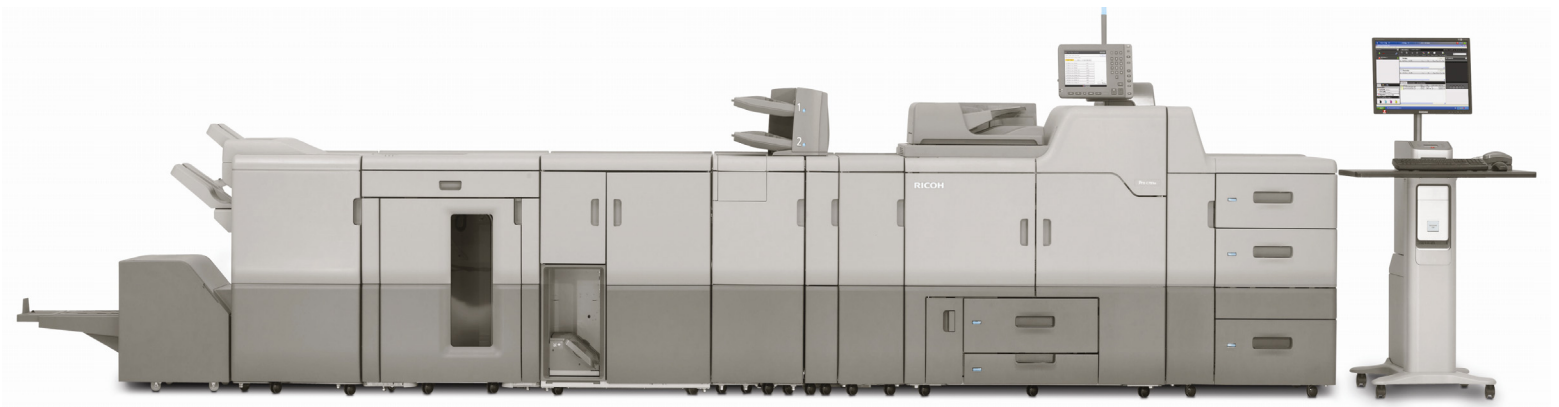


RICOH

PRO C651EX / C751EX / C751 SERIES

CUSTOMER EXPECTATIONS GUIDE

VERSION 1.0



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DOCUMENT REVISION TABLE

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SECTION 2.1 **DOCUMENT INTRODUCTION**

Congratulations on your decision to purchase a Ricoh Pro C651EX / C751EX / C751 Production Series Printer.

How to use this document:

This document is designed to provide a comprehensive guide to the C651EX / C751EX / C751 Production Series models from Ricoh Americas Corporation. This document may include features of these print engines that may or may not be included in your purchase.

Checkboxes (☐) are provided for each optional component to signify which are included with your purchase and should be *checked* during the review of this document by the Ricoh Production Print Solutions Engineer (PPSE).

This guide was also created for the RICOH Pro C651EX / C751EX / C751 models to provide a communication link between the RICOH Production Print Specialist, the Production Solutions Engineer and the Customer during the sales cycle of the Ricoh solution.

It also provides the necessary information required to facilitate a successful delivery, installation, implementation and end user training of the RICOH Pro C651EX / C751EX / C751 at the customer location.

As shown on the table of contents, some of the critical information this document addresses include:

- Size, Weight and Electrical Specifications of the RICOH Pro C651EX / C751EX / C751 models
- Connectivity and Workflow Configuration
- Site Requirements - Power, Network, and Clearance
- RICOH Service and Support Services Engagement

Throughout the document there are areas where initials are required. This indicates that the items on the page were reviewed by all parties involved with the sales, delivery and implementation of the product.

Upon completion of the review, acknowledgement signatures on the “Sign Off Worksheet” should be completed and copies made available for the PPSE’s customer file.

The document then follows the sales cycle to include delivery, installation, implementation, and product training.

Should you have any questions, please contact your Local Ricoh PPSE.

SECTION 2.2**RICOH PRO C651EX / C751EX / C751 PRODUCT OVERVIEW**

The RICOH Pro C651EX / C751EX / C751 series are high-volume, 65/75 page per minute, four-color production printers which offer a variety of in-line media handling and finishing capabilities to produce professional output.

With the capability of producing high quality, 1200 x 4800 dpi prints on a wide variety of media or substrates. The Pro C651EX / C751EX / C751 models duplex media weights up to 256gsm when feeding from specific trays.

There are three different models to the Ricoh Pro C651EX / C751EX / C751 family. There is a Pro C751 which offers a Printer-only engine in addition to the Pro C651EX / C751EX series. The EX Series include scan to file, copy and document server functionality in addition to four-color printing.

Each of the Pro C651EX / C751EX / C751 models offer various finishing options. The optional in-line finishing equipment include a Ring Binder RB5010, a High-Capacity Stacker Unit SK5020, 2/3 Hole Punch Unit, a GBC Streampunch Pro, a Multi-folding unit FD5010 and others. There are two solutions which provide inline saddle-stitched, folded booklets which include a Plockmatic Production Booklet Maker BK5030 and or SR5040. Both of which offer optional inline trimming capabilities.

These components are covered in more detail in the Finishing section of this document.

The design of the RICOH Pro C651EX / C751EX / C751 products facilitate a Trained Customer Replaceable Unit Program (*TCRU*) to minimize system downtime, optimize image quality and maintain overall machine productivity. This requires the customer to replace specific components to maintain the optimal environment for image quality. The TCRU program is covered in more detail in Section 13 of this document.

The RICOH @Remote Service allows the machine to remotely communicate important information back to RICOH to ensure that the Pro C651EX / C751EX / C751 series are running optimally at every customer site.

There are three critical items which the machine communicates. These are:

- Automatic Service Call Placement for preventative maintenance and service calls
- Remote Usage Counter Readings (Automatic Meter Reads)
- Automatic Supply (Toner) Ordering and Replenishment

More information on the @Remote Service can be found on Section 14 of this document.

With the variety of media handling, extensive inline finishing capabilities, an effective TCRU program, @Remote, and the ability to load paper and toner “*on the fly*”, the RICOH Pro C651EX / C751EX / C751 models will produce and maintain the highest quality, delivering finished output at speeds of up to 65/75 pages per minute.



SECTION 3.1**PRO C751 PRINTER CONFIGURATION****☐ PREFERRED CONFIGURATION**

The standard RICOH Pro C751 Printer Model configuration includes the following components:

- PRINT ENGINE OR MAINFRAME
- 1,000 SHEETS X 2 (TANDEM TRAY) 8 1/2 X 11" MEDIA
- 500 SHEET TRAY SUPPORTING UP TO 12 X 18 MEDIA
- 10.4 INCH LCD OPERATION PANEL

RIP FRONT END - (For optional rip hardware and software including our Total Flow Color Bundles, refer to the specific pages for information)

- E-41A EXTERNAL FIERY CONTROLLER
- KEY OPERATOR TRAINING DELIVERED BY OUR PPSE



Pro C751 Standard Configuration

The RICOH Pro C751 can be configured to include the following optional components:

- ☐ LARGE CAPACITY TRAY RT5060
- ☐ A3 / DLT TRAY UNIT TK5010
- ☐ BYPASS TRAY BY5010
- ☐ POST-PROCESS COVER INTERPOSER CI5020
- ☐ BOOKLET FINISHER SR5040
- ☐ TRIMMER TR5040 FOR THE SR5040
- ☐ MULTI-FOLDING UNIT FD5010
- ☐ STAPLER FINISHER SR5030
- ☐ PUNCH UNIT PU5020 FOR THE SR5030
- ☐ DECURLER UNIT DU5010
- ☐ RING BINDER RB5010
- ☐ PLOCKMATIC PRODUCTION BOOKLET MAKER BK5030 TYPE E (NOT AVAILABLE AT RELEASE)
- ☐ STACKER UNIT SK5020 WITH BUFFER PASS UNIT 5010
- ☐ GBC STREAMPUNCH PRO EX (NOT AVAILABLE AT RELEASE)
- ☐ BUFFER PASS UNIT TYPE 5010

TotalFlow Color Bundles

- ☐ TOTAL FLOW COLOR STANDARD
- ☐ TOTAL FLOW COLOR ADVANCED
- ☐ TOTAL FLOW COLOR ADVANCED PLUS



Optional Hardware Configurations are shown on following pages

SECTION 3.2**PRO C651EX / C751EX CONFIGURATION****☐ PREFERRED CONFIGURATION**

The standard RICOH Pro C651EX / C751EX configuration includes the following components:

- PRINT ENGINE OR MAINFRAME
- 1,000 SHEETS X 2 (TANDEM TRAY) 8 1/2 X 11" MEDIA
- 500 SHEET TRAY SUPPORTING UP TO 12 X 18 MEDIA
- 10.4 INCH LCD OPERATION PANEL

RIP FRONT END - (For optional rip hardware and software including our Total Flow Color Bundles, refer to the specific pages for information)

- E-41A EXTERNAL FIERY CONTROLLER
- KEY OPERATOR TRAINING DELIVERED BY OUR PPSE



C651EX / C751EX Standard Configuration

The RICOH Pro C651EX / C751EX can be configured to include the following optional components:

- ☐ LARGE CAPACITY TRAY RT5060
- ☐ A3 / DLT TRAY UNIT TK5010
- ☐ BYPASS TRAY BY5010
- ☐ POST-PROCESS COVER INTERPOSER CI5020
- ☐ BOOKLET FINISHER SR5040
- ☐ TRIMMER TR5040 FOR THE SR5040
- ☐ MULTI-FOLDING UNIT FD5010
- ☐ STAPLER FINISHER SR5030
- ☐ PUNCH UNIT PU5020 FOR THE SR5030
- ☐ DECURLER UNIT DU5010
- ☐ RING BINDER RB5010
- ☐ PLOCKMATIC PRODUCTION BOOKLET MAKER BK5030 TYPE E (NOT AVAILABLE AT RELEASE)
- ☐ STACKER UNIT SK5020 WITH BUFFER PASS UNIT 5010
- ☐ GBC STREAMPUNCH PRO EX (NOT AVAILABLE AT RELEASE)
- ☐ BUFFER PASS UNIT TYPE 5010

TotalFlow Color Bundles

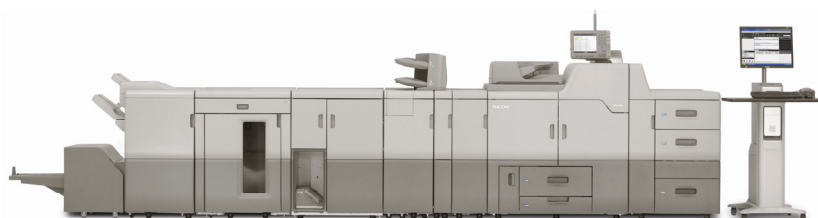
- ☐ TOTAL FLOW COLOR STANDARD
- ☐ TOTAL FLOW COLOR ADVANCED
- ☐ TOTAL FLOW COLOR ADVANCED PLUS



Optional Hardware Configurations are shown on the following pages

SECTION 3.3**PRO C651EX / C751EX / C751 OPTIONAL EQUIPMENT**

OPTIONAL EQUIPMENT FOR THE PRO C651EX / C751EX / C751	<i>Item</i>	<i>Description</i>	<i>Remarks</i>
	Staple Finisher	Finisher SR5030	100 Page Staple Features
	Booklet Finisher	Finisher SR5040	Max 20 sheets (80gsm) Saddle Stitch
	Punch Unit	Punch Unit PU5020	Allows punching at 75ppm / 65ppm
	Booklet Trimmer	Booklet Trimmer TR5040	One Side Edge Trim
	LCIT	LCIT RT5060	Equipped with Air-Assist Paper Feed
	Bypass tray	Multi Bypass Tray BY5010	500 sheet capacity
	Buffer Pass Unit	Buffer Pass Unit	Required when installing the High Capacity Stacker
	High Capacity Stacker	High Capacity Stacker SK5020	5000 sheets Single Configuration Only
	Roll-Away Cart	Roll-Away Cart Type 5020 (additional cart)	Additional cart for Stacker
	Multi Fold Unit	Multi Folding Unit FD5010	Supports 6 different folding patterns
	A3/11"x17" Tray Unit	A3/11"x17" Tray Unit TK5010	Converts Tandem tray to 11/17"
	Cover Interposer Tray	Cover Interposer Tray CI5020	-
	Ring Binder	Ring Binder RB5010	Produces Ring bound output
	Ring Opener	Ring Opener Type A	Option to open finished Ring bound booklet to add pages
	Color Controller	Type E-41A	Standard Fiery Controller (External)
	Waste Toner Bottle	Type C751	Waste Toner Bottle Part # D0746670
	TCRU Kit	TCRU Kit Type A	-
	TCRU Kit	TCRU Kit Type B	Fuser Unit as TCRU Item
	Java VM Card	Type R	-
	EFI HDD Security	E41 EFI Server HDD Security Option	



SECTION 3.4 PRO C751 OPTIONS COMPATIBILITY CHART

	1. Multi Bypass Tray (BY5010)	2. 13"x19.2" LCT (LCIT RT5060)	3. A3/DLT Tray Unit (TK5010)	4. Cover Interposer Tray (CI5020)	5. Multi-Folding Unit (FD5010)	6. Ring Binder (RB5010)	7. High Capacity Stacker (SK5020)	8. Finisher (SR5030)	9. Booklet Finisher (SR5040)	10. Punch unit US 2/3	11. Punch unit EU 2/4	12. Punch unit SC 4hole	13. Trimmer Unit (TR5040)	14. Buffer Pass Unit Type 5000	15. Decurler Unit DU5010	16. TCRU/ORU Type C751 Set A	17. TCRU/ORU Type C751 Set B	18. Waste Toner Bottle	19. Tab Sheet unit	19. Optional Counter I/F	20. Plockamtiic Booklet Maker	21. GBC Stream Punch
1. Multi Bypass Tray (BY5010)	M																					
2. 13"x19.2" LCT (LCIT RT5060)																						
3. A3/DLT Tray Unit (TK5010)																						
4. Cover Interposer Tray (CI5020)																						
5. Multi-Folding Unit (FD5010)																						
6. Ring Binder (RB5010)																						
7. High Capacity Stacker (SK5020)																						
8. Finisher (SR5030)																						
9. Booklet Finisher (SR5040)																						
10. Punch unit US 2/3																						
11. Punch unit EU 2/4																						
12. Punch unit SC 4hole																						
13. Trimmer Unit (TR5040)																						
14. Buffer Pass Unit Type 5000																						
15. Decurler Unit DU5010																						
16. TCRU/ORU Type C751 Set A																						
17. TCRU/ORU Type C751 Set B																						
18. Waste Toner Bottle																						
19. Tab Sheet unit																						
20. Optional Counter I/F																						
21. Plockmatic Booklet Maker																						
22. GBC Stream Punch																						

X Cannot be installed together

M Must be installed together

1 Must select one of these options and installed together

A High Capacity Stacker (SK5020) may be the last finishing option in the configuration, if the Multi Folding Unit (FD5010) is not included in the configuration.

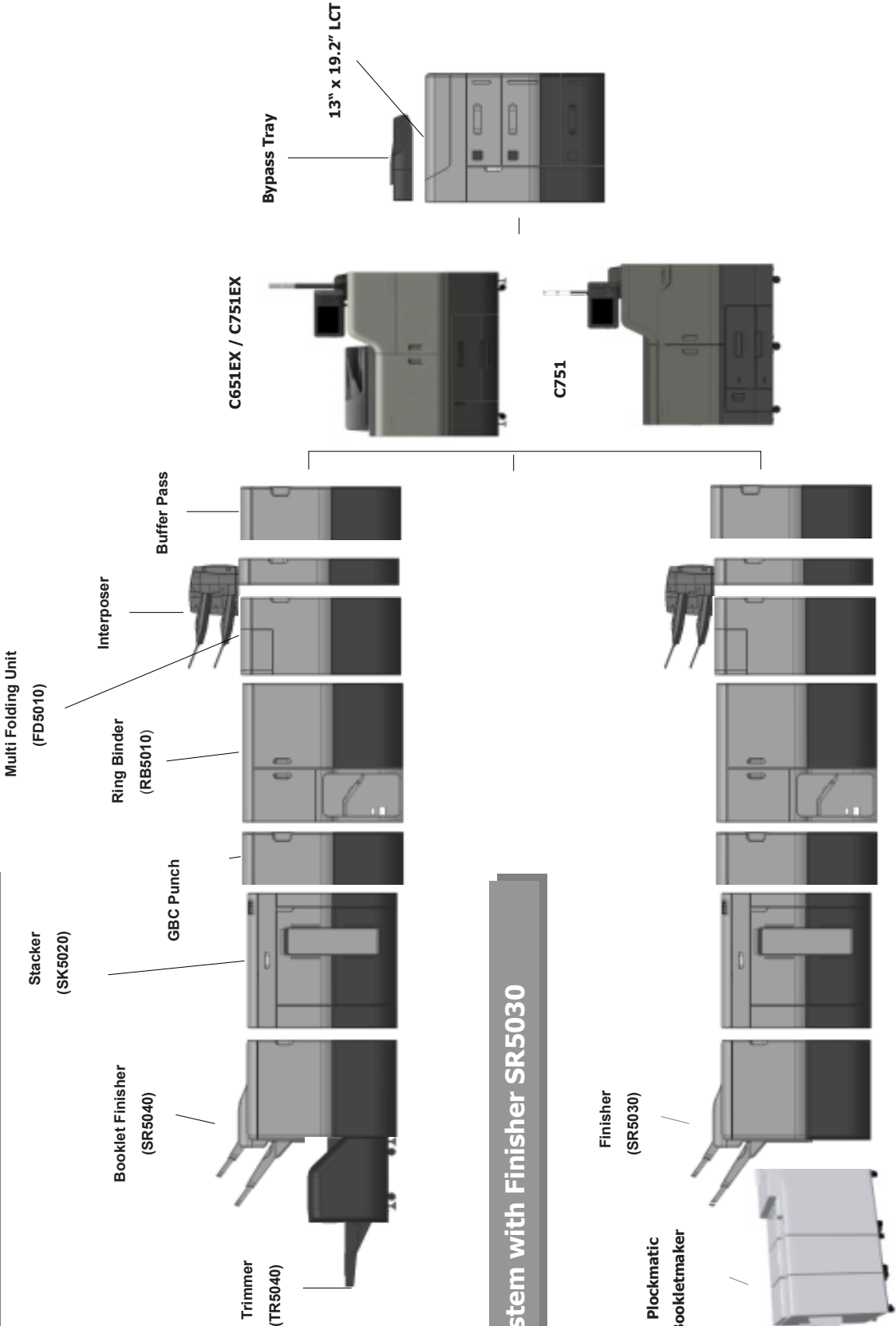
R The unit is recommended when included with the configuration

SECTION 3.5**PRO C651EX / C751EX OPTIONS COMPATIBILITY CHART** (CONTINUED)

	1. Multi Bypass Tray (BY5010)	2. 13"x19.2" LCT (LCIT RT5060)	3. A3/DLT Tray Unit (TK5010)	4. Cover Interposer Tray (CI5020)	5. Multi-Folding Unit (FD5010)	6. Ring Binder (RB5010)	7. High Capacity Stacker (SK5020)	8. Finisher (SR5030)	9. Booklet Finisher (SR5040)	10. Punch unit US 2/3	11. Punch unit EU 2/4	12. Punch unit SC 4hole	13. Trimmer Unit (TR5040)	14. Buffer Pass Unit Type 5000	15. Decurler Unit DU5010	16. TCRU/ORU Type C751 Set A	17. TCRU/ORU Type C751 Set B	18. Waste Toner Bottle	19. Tab Sheet unit	20. Optional Counter I/F	21. Plockamtiic Booklet Maker	22. GBC Stream Punch	23. VM Card TypeR
1. Multi Bypass Tray (BY5010)		M																					
2. 13"x19.2" LCT (LCIT RT5060)																							
3. A3/DLT Tray Unit (TK5010)							A	1	1														
4. Cover Interposer Tray (CI5020)							A	1	1														
5. Multi-Folding Unit (FD5010)								1	1														
6. Ring Binder (RB5010)								1	1														
7. High Capacity Stacker (SK5020)																							
8. Finisher (SR5030)																							
9. Booklet Finisher (SR5040)																							
10. Punch Unit US 2/3 (PU5020)																							
11. Punch Unit EU 2/4 (PU5020)																							
12. Punch Unit SC 4hole (PU5020)																							
13. Trimmer Unit (TR5040)																							
14. Buffer Pass Unit Type 5000																							
15. Decurler Unit DU5010																							
16. TCRU/ORU Type C751 Set A																							
17. TCRU/ORU Type C751 Set B																							
18. Waste Toner Bottle																							
19. Tab Sheet Unit																							
20. Optional Counter I/F																							
21. Plockmatic Booklet Maker																							
22. GBC Stream Punch																							
23. VM Card TypeR																							

SECTION 3.6 PRO C651EX / C751EX OPTIONAL EQUIPMENT (CONTINUED)

System with Booklet Finisher



SECTION 3.7

MACHINE CONFIGURATION OPTIONS



SECTION 3.7 **MACHINE CONFIGURATION OPTIONS** *(CONTINUED)*



SECTION 3.7 **MACHINE CONFIGURATION OPTIONS** *(CONTINUED)*



SECTION 3.7 **MACHINE CONFIGURATION OPTIONS** *(CONTINUED)*



SECTION 3.8 **RIP FRONT-END AND CONNECTIVITY OPTIONS**

The three Pro C651EX / C751EX / C751 models ship standard with a front-end rip solution. A rip front-end needs to be configured to best meet the workflow requirements.

There is one rip to interface to the Pro C651EX / C751EX / C751 models, which is considered a standard component. Depending on a variety of factors such as color requirements, workflow, and others, the appropriate Total Flow Color Bundle will need to be determined once the production workflow is established by your Production Printing Solutions Engineer or PPSE. The Total Flow Color Bundles are detailed on Page 38 of this document.

NOTE: Use Page 37 of this document to specify your RIP Front-end options. This page is simply for informational purposes.

EFI E-41A Fiery



*EFI E-41A Fiery shown
without the optional
FACI and
Furniture Kit
Pro C651EX / C751EX / C751
Models*



*EFI E-41A Fiery
Optional FACI and
Furniture Kit
Pro C651EX / C751EX / C751
Models*

SECTION 4.1

GENERAL MACHINE SPECIFICATIONS

RELIABILITY	SPECIFICATION		PRO C651EX	PRO C751EX / C751
	MAXIMUM MONTHLY VOLUME		180K / MONTH	180K / MONTH
	PM INTERVAL		300K PRINTS	300K PRINTS
	DUTY CYCLE		350K PRINTS / MONTH	350K PRINTS / MONTH

RICOH PRO C651EX / C751EX / C751 PRINT ENGINE	CONFIGURATION		Console	
	COPY PROCESS		4-drum dry electrostatic transfer system with internal transfer belt	
	FUSING		Oil-less Belt-fusing Method	
	ENGINE SPEED	C651EX	FULL COLOR/BLACK 65PPM Thick1(52.3g/m ²) - Thick5(220.0g/m ²) 65PPM Thick6(220.1g/m²) - Thick7(300.0g/m²) 45PPM	A4/LT(LEF) Printing Speed can be lowered to 32PPM by adjusting the Advanced Settings for all paper weight.
		C751EX C751	FULL COLOR/BLACK 75PPM Thick1(52.3g/m ²) - Thick5(220.0g/m ²) 75PPM Thick6(220.1g/m²) - Thick7(300.0g/m²) 52PPM	A4/LT(LEF) Printing Speed can be lowered to 37PPM by adjusting the Advanced Settings for all paper weight.
	WARM-UP TIME		Less than 300 sec.	23C°, rated voltage
	LIMITLESS PAPER SUPPLY		Supported	
	PAPER SIZE		Please refer to "Paper size matrix".	
	MAX PRINTABLE AREA		323 mm x 480 mm / 12.7" x 18.9"	
	PAPER WEIGHT AND PAPER TYPE	TRAY 1	52.3-300g/m ² / 14lb.Bond – 110lb.Cover Plain Paper, Recycle Paper, Preprinted, Letterhead, Pre-punched	
		TRAY 2	52.3-256.0g/m ² / 14lb.Bond – 95lb.Cover Plain Paper, Recycle Paper, Preprinted, Letterhead, Pre-punched, Tab Stock(*1)	
		A3/ DLT LCT	TRAY 3	52.3-256.0g/m ² / 14lb.Bond – 95lb.Cover Plain Paper, Recycle Paper, Preprinted, Letterhead, Pre-punched, Tab Stock(*2), Glossy/ Matted Paper, OHP (Transparency), Translucent Paper, Envelope
			TRAY 4	52.3-300g/m ² / 14lb.Bond – 110lb.Cover Plain Paper, Recycle Paper, Preprinted, Letterhead, Pre-punched, Tab Stock(*2), Glossy/ Matted Paper, OHP (Transparency), Translucent Paper, Envelope, Label Paper
			TRAY 5	52.3-256.0g/m ² / 14lb.Bond – 95lb.Cover Plain Paper, Recycle Paper, Preprinted, Letterhead, Pre-punched, Tab Stock(*2), Glossy/ Matted Paper, OHP (Transparency), Translucent Paper, Envelope
		B Y - PASS	TRAY 6	52.3-220.0g/m ² / 14lb.Bond – 81lb.Cover Plain Paper, Recycle Paper, Preprinted, Letterhead, Pre-punched, Tab Stock(*2), Translucent Paper
		DUPLEX	60-256.0g/m ² 16lb.Bond – 95lb Cover	A5 SEF/HLT SEF – 13" x 19.2" duplex
	PAPER WEIGHT SETTING		Thick1 (52.3-63.0g/m ²), Thick2 (63.1-80.0g/m ²), Thick3 (80.1-105.0g/m ²), Thick4 (105.1g/m ² -163.0g/m ²), Thick5(163.1g/m ² -220.0g/m ²), Thick6 (220.1-256.0g/m ²), Thick7 (256.1-300 g/m ²)	
	POWER SPECIFICATION	NA VER.	208-240V, 16A, 50/60Hz	
		EU VER.	220-240V, 16A, 50/60Hz	
	MAX. POWER CONSUMPTION		4000W	

SECTION 4.2**PRO C651EX / C751EX COPY SPECIFICATIONS**

RICOH Pro C651EX / C751EX COPY SPECIFICATIONS

Original Type		Book/Sheet/Object		
Original size		Max: A3 / 11" x 17" Min: A5, 5 1/2" x 8 1/2"		
Copy/Print size		A3-A5, Up to 330mm x 458mm 11" x 17"-5 1/2 x 8 1/2, 13" x 18"		
First Copy Output Time		FC	Less than 11 sec	A4/LT(LEF) 1 st input tray /Face Up/ Plain Paper / Simplex
		BK	Less than 11 sec	
Multi copy speed	Memory retention	FC	(C1a) 65 cpm (C1b) 75cpm	A4/LT(LEF)
		BK	(C1a) 65 cpm (C1b) 75cpm	
	ADF 1 to 1	FC	(C1a) 65 cpm (C1b) 75cpm	A4/LT(LEF)
		BK	(C1a) 65 cpm (C1b) 75cpm	
Multi copy		Up to 9,999		
Resolution		Copy	1,200dpi	
		Print	1,200dpi x 4800dpi	
		Scan copy	600dpi	
		Scan send	600dpi	
Magnification		NA ver.	7 Reductions & 5 Enlargement 93%, 85%, 78%, 73%, 65%, 50%, 25% 121%, 129%, 155%, 200%, 400%	
		EU ver.	7 Reductions & 5 Enlargement 93%, 82%, 75%, 71%, 65%, 50%, 25% 115%, 122%, 141%, 200%, 400%	
Auto Magnification Select (AMS)		Supported		
Zoom		25-400%		1% step
Size Magnification		Supported		
Directional Magnification		Supported		1 % step
Directional Size Magnification		Supported		1 mm/0.1 inch step
Full Image Copy		Supported		93% & Centering
Interrupt Copy		Standard		
Image Density		Auto Image Density		
		Manual Selection		9 Levels
Color Model		Auto Color Selection		
		Full Color		
		Black & White		
		Single Color		Default: 12 colors & Black User Color: 15 colors
		Twin-Color		Black & Other color Red & Black
Original Type Setting		Text		
		Text/Photo		
		Photo		
		Map		
		Pale		
		Generation		
		Inkjet		
		Highlight Pen		

SECTION 4.2**PRO C651EX / C751EX COPY SPECIFICATIONS** (CONTINUED)

RICOH PRO C651EX / C751EX COPY SPECIFICATIONS

Paper selection		Auto Paper Selection	
		1 st Tray	
		2 nd Tray	
		3 rd Tray	LCT option is required
		4 th Tray	LCT option is required
		5 th Tray	LCT option is required
		6 th Tray (Bypass tray)	LCT & Bypass required
Paper Library		Yes	
Duplex		1 side to 2 side / 2 side to 2 side / Book to 2 side / Front & Back to 2 side	
Book / Series Combine	Book	Booklet / Magazine	
	Series	Book to Simplex / Book to Duplex / Front & Back to 2 sided	
	Combine	Combine 2,4,8 into 1 simplex sheet / Combine 4,8,16 into 1 duplex sheet	
Margin Adjustment		Supported	1mm/0.1 inch
Erase 3 edge	Inside	Supported	
	Outside Center/Border		
Cover / Slip sheet	Front	Copy or Blank	Copy: Duplex or Simplex
	Front & Back	Copy or Blank	Copy: Duplex or Simplex
	Slip	Copy or Blank	
Chaptering		Supported	Up to 100 positions
Paper Designate		Supported (can select from 3 trays)	Up to 100 positions
Image Rotation		Supported	
Electronic Sort		Supported	With finisher
Stapling		Supported, 4 positions	With finisher
Punch		USA: 2/3 switchable hole punch EU: 2/4 switchable hole punch Scandinavian: 4 holes punch	With Finisher
Stamp	Background Numbering	Not Available	
	Page Numbering	6 stamps	
	Date Stamp	5 stamps	
	User Stamp	5 stamps	
	Preset Stamp	8 stamps	
	Stamp Text	Supported	
Quality Adjust-ments	<div> <div> <u>Color Adjustment</u> Color Balance Adjustment Color Balance Program Color Registration </div> <div> <u>Image Adjustment</u> Sharp Soft Contrast Background Density Adjustment Under Color Removal Auto Color Selection Sensitivity Adjustment Text-Photo Separation Sensitivity Adjustment Color Erase Sensitivity Adjustment Auto Color Calibration (ACC) </div> </div>		
User Code		8 digits / 500 user code	
Interrupt Copy		Supported	
Copy Counter		Electrical and Mechanical counter x1	
Counterfeit Prevention		Bill Recognition & Invisible Marking Function	

SECTION 5.1**AUTOMATIC DOCUMENT FEEDER (ADF) SPECIFICATIONS**

AUTOMATIC DOCUMENT FEEDER (ADF) SPECIFICATIONS	Dimensions (W x D x H)	680 x 565 x 180mm / 267 x 23 x 7 inches	
	Weight	Less than 19.5 Kg / 42.9 lbs.	
	Power Source	From mainframe	
	Noise (Power level)	Less than 72dB	
	Stack capacity	100 sheets or less than 12mm	80g/m2, 20lbs Bond
	Original size	- Simplex B6-A3 (SEF), 5 1/2" x 8 1/2" – 11" x 17" (SEF) Banner Page -1260mm - Duplex B5-A3 (SEF) 5 1/2" x 8 1/2" – 11" x 17" (SEF)	
	Original Weight	- Simplex 40-128 g/m2 11-34 lb Bond - Duplex 52-128 g/m2 14-34 lb Bond	
	Original set position	Left-rear corner	
	Original Feed	ADF, SADF mode	
	Original Set	Face Up, First sheet on top	
	Original Feeding Speed	B/W: 75 ipm Color: 75 ipm (200 dpi)	A4 LEF or LT LEF
	Power Source	From Mainframe	

SECTION 6.1 PRODUCTIVITY DATA FOR NORTH AMERICAN MEDIA SIZES

The following tables represent the productivity for the Pro C651EX and C751EX. 70% indicates **Thick Paper 6** and **Thick Paper 7** or **220gsm** or heavier weight substrate. Productivity runs at 70% of full rated speed. This applies to all models of the product. For specific paper sizes and paper sources, refer to the tables below and on the following page.

Pro C751EX Simplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	LT	LEF	52	75
	DLT	SEF	29	42
Tray2	HLT	LEF	52	75
	LT	LEF	52	75
	LT	SEF	42	60
	LG	SEF	34	49
	DLT	SEF	29	42
	12 x 18	SEF	27	39
Tray3-6	HLT	LEF	52	75
	LT	LEF	52	75
	LT	SEF	42	60
	LG	SEF	34	49
	DLT	SEF	29	42
	12 x 18	SEF	27	39
	13 x 19.2	SEF	26	37

Pro C651EX Simplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	LT	LEF	45	65
	DLT	SEF	26	38
Tray2	HLT	LEF	45	65
	LT	LEF	45	65
	LT	SEF	37	53
	LG	SEF	30	44
	DLT	SEF	26	38
	12 x 18	SEF	25	36
Tray3-6	HLT	LEF	45	65
	LT	LEF	45	65
	LT	SEF	37	53
	LG	SEF	30	44
	DLT	SEF	26	38
	12 x 18	SEF	25	36
	13 x 19.2	SEF	24	34

Duplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	LT	LEF	52	75
	DLT	SEF	29	42
Tray2	LT	LEF	52	75
	LT	SEF	40	58
	LG	SEF	33	48
	DLT	SEF	29	42
	12 x 18	SEF	27	38
Tray3-6	LT	LEF	52	75
	LT	SEF	40	58
	LG	SEF	33	48
	DLT	SEF	29	42
	12 x 18	SEF	27	38
	13 x 19.2	SEF	26	37

Duplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	LT	LEF	45	65
	DLT	SEF	27	38
Tray2	LT	LEF	45	65
	LT	SEF	35	50
	LG	SEF	30	42
	DLT	SEF	27	38
	12 x 18	SEF	25	36
Tray3-6	LT	LEF	45	65
	LT	SEF	35	50
	LG	SEF	30	42
	DLT	SEF	27	38
	12 x 18	SEF	25	36
	13 x 19.2	SEF	24	34

SECTION 6.2 PRODUCTIVITY DATA FOR EUROPEAN MEDIA SIZES

The following tables represent the productivity for the Pro C651EX and C751EX. 70% indicates **Thick Paper 6** and **Thick Paper 7** or **220gsm** or heavier weight substrate. Productivity runs at 70% of full production speed. This applies to all models of the product. For specific paper sizes and paper sources, refer to the tables below and on the previous page.

Pro C751EX Simplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	A4	LEF	52	75
	A3	SEF	30	43
Tray2	A5	LEF	52	75
	A4	LEF	52	75
	A4	SEF	40	57
	A3	SEF	30	43
	SRA3	SEF	28	40
	12 x 18	SEF	27	39
Tray3-6	A5	LEF	52	75
	A4	LEF	52	75
	A4	SEF	40	57
	A3	SEF	30	43
	SRA3	SEF	28	40
	12 x 18	SEF	27	39

Pro C651EX Simplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	A4	LEF	45	65
	A3	SEF	27	39
Tray2	A5	LEF	45	65
	A4	LEF	45	65
	A4	SEF	35	50
	A3	SEF	27	39
	SRA3	SEF	25	36
	12 x 18	SEF	25	36
Tray3-6	A5	LEF	45	65
	A4	LEF	45	65
	A4	SEF	35	50
	A3	SEF	27	39
	SRA3	SEF	25	36
	12 x 18	SEF	25	36

Duplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	A4	LEF	52	75
	A3	SEF	30	43
Tray2	A4	LEF	52	75
	A4	SEF	38	56
	A3	SEF	30	43
	SRA3	SEF	27	38
	12 x 18	SEF	27	38
Tray3-6	A4	LEF	52	75
	A4	SEF	38	56
	A3	SEF	30	43
	SRA3	SEF	27	38
	12 x 18	SEF	27	38

Duplex

	Substrate		70%	100%
	Format	Direction	PPM	
Tray1	A4	LEF	45	65
	A3	SEF	27	39
Tray2	A4	LEF	45	65
	A4	SEF	34	48
	A3	SEF	27	39
	SRA3	SEF	25	36
	12 x 18	SEF	25	36
Tray3-6	A4	LEF	45	65
	A4	SEF	34	48
	A3	SEF	27	39
	SRA3	SEF	25	36
	12 x 18	SEF	25	36

SECTION 7.1**PRO C651EX / C751EX / C751 GW CONTROLLER SPECIFICATIONS**

GW CONTROLLER	CPU		LV Dothan Pentium M1.4GHz/14076915	
	Memory	P1	1.5GB (1GB + 512MB)	
		C1	2.5GB (2GB + 512MB)	
	HDD		320 GB	
	Interface		100/BASE-TX / 10BASE-T	
			SD Slot x 2	GW application installation / Service use
			USB2.0 x 1	External appliance
	Network Protocol	Network	TCP/IP (Ipv4, Ipv6)	
		Scan to E-mail	POP before SMTP, SMTP Authentication, S/MIME	
		Scan to Folder	SMB, FTP, NCP	

GW CONTROLLER SECURITY FEATURES	HDD Data Overwrite Security			Yes
	Type H	414002		Standard
	ISO/IEC15408 Certification			No
	Authentication (*1)			
	Windows Authentication			Yes
	LDAP Authentication			Yes
	Kerberos (*2)			Yes
	Basic Authentication			Yes
	User Code Authentication			Yes
	802.1xWired Authentication			Yes
	Encryption			
	Address Book Encryption			Yes
	Authentication Pwd Encryption			Yes
	SSL communication			Yes
	S/MIME(*3)			Yes
	IPsec communication			Yes
	HDD Encryption			Yes
	Type A	414021		Standard
	Locked Print password Encryption			No
	Others			
	Network Protocol On/Off			Yes
	IP filtering (Access Control)			Yes
	Mask Type for Copying/Data Security for Copying (*1)			No
	Copy Data Security Unit Option			No
	Type F	413985		

THE RICOH GW CONTROLLER IS STANDARD TO THE PRO C651EX / C751EX / C751 MODELS AND IS USED FOR THE @REMOTE SERVICE AND NETWORK SCANNING (EX MODELS ONLY).

THIS INTERFACE REQUIRES A NETWORK CONNECTION, AN RJ-45 PATCH CABLE AND AN IP ADDRESS FOR ALL CONFIGURATIONS.



SECTION 7.2**GW SCANNING SPECIFICATIONS**

GW SCANNING SPECIFICATIONS	Original type		Book / Sheet / Object
	Resolution		100 / 150 / 200 / 300 / 400 / 600 (Default) 200dpi 100-1,200 dpi (Twain: BW) 100-1,200 dpi (Twain: Color)
	Scan Speed (A4, 200dpi)		BW: 75 spm FC: 75 spm *Scan speed (A4 LEF, 200dpi)
	Max Scan Area		297 x 432 mm / 11.7"x17"
	Original Size	Standard	A3 SEF, A4 SEF, A4 LEF, A5 SEF, A5 LEF, B4 SEF, B5 SEF, B5 LEF, 11"x17" SEF, 8 1/2"x14" SEF, 8 1/2"x13" SEF, 8 1/2"x11" SEF, 8 1/2"x11" LEF, 5 1/2"x8 1/2" SEF, 5 1/2"x8 1/2" LEF
		Customized	Minimum: 140 x 140 mm Maximum: 297 x 432 mm
	File Format		TIFF (Multi/Single), JPEG, PDF (Multi/Single), High compression PDF(Multi/Single)
	Scan Mode	Default	BW Text/Line Art
		Support	BW Text/Line Art, BW_Text, BW_Text-Photo, BW_Photo, Grayscale, FC_Text-Photo, FC_Photo, Auto Color Selection
	Image Density	Auto Density Selection	Supported
		Manual Setting	7 Levels
	Thin paper mode		Not Supported
	SADF / Batch Mode		Supported
	Mixed Size Mode		Supported

SECTION 7.3 GW SCAN TO EMAIL SPECIFICATIONS

GW SCAN TO EMAIL SPECIFICATIONS	Requirement		SMTP Gateway and TCP/IP
	Authentication		SMTP POP before SMTP
	Resolution		Default: 200 dpi 100 / 150 / 200 / 300 / 400 / 600 dpi
	Register E-mail Address in HDD		Max. 2,000 addresses
	Register Group Address in HDD		Max. 500 Addresses Max. 100 Addresses in One Group Addresses
	Maintain E-mail Address in HDD		Direct input on operation panel, Web image Monitor, Smart Device Monitor
	Search E-mail Address in HDD		By name & E-mail address
	LDAP		Yes
	Max Address Number per Send		Max. 500 addresses
	Address Number per send	via Address Book	Max. 500 addresses
		Direct Input	Max. 100 addresses
		via LDAP	Max. 100 addresses
	Attention		To, cc, bcc
	Subject	Manual Input	Max. 128 characters
	Body Message	Manual Input	Max. 80 characters
		Pre-register by user	5 body message. 80 characters x 5 lines per a body message. Title name of the body message: Max. 20 characters per a name.
		Preset	Message: "This e-mail included attached file sent from xxxx (machine model name)."
	E-mail Size Restriction	With restriction	128-102,400KB, Default = 2,048KB
		W/O restriction	725MB
	File Type		Single Page TIFF, Single Page JPEG, Single Page PDF, Multi Page TIFF, Multi Page PDF, Single Page High-compression PDF, Multi Page High-compression PDF
	Program User Setting		Yes (Up to 25 programs)
	Divided & Send E-mail		Yes (By page or size) / No, Default = Yes (By size)
	Resend		Yes

SECTION 7.4**GW SCAN TO FILE AND TWAIN SCANNING SPECIFICATIONS**

GW CONTROLLER SCAN TO FILE SPECIFICATIONS	Protocol Support	SMB, FTP, NCP
	Security	Client folder log-in (log-in name and password) Encryption of log-in name and password during transmission
	Resolution	Default: 200dpi 100, 150, 200, 300, 400, 600dpi
	Max. Resisted Client Folder Address in HDD	Max. 2,000 folders
	Maintain Client Folder Address in HDD	Via Operation Panel, Web Image Monitor
	Max. Client Folders per send	Max. 50 client folders
	Group Address	Max. 100 destinations (To Folder: 50, To e-mail: 100) *1
	Input Subject	No
	Scan file size	1 document Up to 2000MB
	File size when combined Scan to Folder & Scan to E-mail	128-102,400KB, Default = 2,048KB (With restriction) 725MB (W/O restriction) (Conforming to the scan to e-mail specification)
	File Type	Single Page TIFF/JPEG, Single Page PDF, Multi Page TIFF, Multi Page PDF, Single Page High-compression PDF, Multi Page High-compression PDF
	Program Registration	Yes (Up to 25 programs)
	Dividing file in Scan to E-mail	Yes (By page or size) / No, Default = Yes (By size) (When Scan to PC combine with Scan to e-mail)
	Resend	Yes / No, Default = Yes

NETWORK TWAIN DRIVER	Operating System	Windows 2000/XP/Vista/7, Windows Server 2003, Server 2008
	Resolution	100-1200dpi
	Scan Mode	Standard, Photo, OCR, Filing
	Image Adjustment	Brightness, Contrast, Threshold, Gamma Adjustment, Halftone Pattern
	Stamp	Not Supported
	Endorse	Date, Page Number, Text

SECTION 7.5

FIERY SCANNING FOR THE C651EX / C751EX MODELS

FIERY REMOTE SCAN SPECIFICATIONS	Resolution		100 / 150 / 200* / 300 / 400 / 600 dpi
	Scan Speed (A4, 200dpi)		50PPM
	Max Scan Area		297mm x 432mm / 11.69 x 17.0 inches
	Original Size	Standard	A3, B4, A4, B5, A5, Letter, 11 x17, 8.5 x14, 8.5 x13, 5.5 x8.5
		Customized	297mm x 432mm / 11.69 x 17.0 inches
	File Format		TIFF, JPEG, PDF
	Scan Type		Black & White: Text/Line Art Black & White: Text Black & White: Text/Photo Black & White: Photo Grayscale Full Color: Text/Photo Full Color: Glossy Photo
	Side		Single Top/top Top/bottom
	Orientation		Portrait Landscape
Destination		Hold Queue Mailbox E-Mail FTP Internet fax SMB	

FIERY SCAN TO EMAIL	Registered E-mail Address in Address Book		1,000
	Address Number per send	Address Book	24K for total size of To and Cc
		LDAP	24K for total size of To and Cc
	Email to scan mode	Attachment	Attachment/URL When URL is specified, the email will be send with URL linked to HDD of Fiery server where the scanned data is stored.
		Format	TIFF, JPEG, PDF

FIERY SCAN TO FTP/SMB	FTP server	Server Name/ IP address, Directory, Port Number can be set.
	Timeout	30 sec (0 – 999 sec can be set)
	Authentication	User Name, Password can be set.
	Proxy server setup	The setup for the FTP server is available.
	SMB setup	Network pas/ Domain name can be set.
	Authentication	User Name, Password can be set.

SECTION 7.6**DOCUMENT SERVER SPECIFICATIONS FOR C651EX / C751EX****DOCUMENT SERVER (EX MODELS ONLY)**

Copy	Ricoh Unique Format
Print	Ricoh Unique Format
Scan	TIFF, JPEG, PDF

	Document Server Capacity
HDD Capacity for Document Server	320GB
Maximum Stored Documents	3,000 Documents
Maximum Page per Document	5,000 pages (Copy) 3,000 pages (Print) 3,000 pages (Scanner)
Maximum Page of all stored Document	12,000 pages

SECTION 8.1**PRO C651EX / C751EX / C751 FIERY E-41A SPECIFICATIONS**

RICOH PRO C651EX / C751EX / C751 FIERY E-41A SPECIFICATIONS	System Version		Fiery System 9 Release 2	
	Configuration		Standard (External)	
	CPU		Intel Core 2 Duo E8400 3.0GHz	
	Memory		2GB	1GB x 2 DDR2
	HDD		160GB	
	DVD RW Drive		Supported	
	Operating System		Windows XP Professional x64 Edition	
	Network Protocol		TCP/IP (IPv4, Ipv6), Apple Talk, SMB	
	PDL		PostScript 3, PCL 5c, PCL 6	Remarks : PCL5 does not support Ring Binder finishing.
	VDP		PPML v.2.2 Fiery Free Form v.1 and .2.1	
	Max Continuous Printing Speed	FC	75ppm (C751/C751EX) 65PPM (C651EX)	A4 or Letter / LEF / 1200dpi
		BK	75ppm (C751/C751EX) 65PPM (C651EX)	A4 or Letter / LEF / 1200dpi
	Print Resolution		1200dpi	600dpi in PCL5c
	Font	PS3	136 + 2MM	
		PCL	80	
	Fiery Menu via Operation Panel		Supported	
	2-character Controller Panel		Supported	Technical Service Use
	Network Interface		Ethernet 1000/100/10base-T x2	
	Service Interface		USB x 8 (Front 2, Back 6) * PS2 Mouse, PS2 Keyboard	Technical Service Use *USB port is available for users for USB print.
	Dimension (W x D x H)		212mm x 482mm x 488mm	
	Weight		19.6kg	
	Power Specification		100-240V, 3.0A, 50/60Hz	
	Max. Power Consumption		350W	

SECTION 8.2

FIERY PRINT CONTROLLER SPECIFICATIONS

FIERY PRINT CONTROLLER	DESCRIPTION	E - 41A FIERY PRINT CONTROLLER
	SYSTEM	FIERY SYSTEM 9 RELEASE 2 EXTERNAL SERVER
	CPU	INTEL CORE 2 DUO E8400 @ 3.00GHZ
	OS	WINDOWS XP PROFESSIONAL X64 EDITION
	MEMORY	2GB 1GB x 2 DDR2
	HDD	160GB
	DVD / CD Rom	DVD-RW AND CD-RW
	PDL	ADOBE POSTSCRIPT 3, PCL5c, PCL6
	RESOLUTION	1200DPI / 600DPI IN PCL5c
	HOST INTERFACE	1000/100/10BASE-T
	PRINT SPEED	FULL COLOR 90 PPM A4 OR LETTER / LEF / 1200DPI BLACK ONLY 90 PPM A4 OR LETTER / LEF / 1200DPI
	SUPPORTED DATA FORMAT	PDF, PS, TIFF, JPEG, CT/LW, TIFF/IT, EPS, DCS2, 1-BIT TIFF, PDF2Go, EXPORTPS, PDF/X-1A AND PDF/X-3 PREFLIGHT
	NETWORK PROTOCOL	TCP/IP (IPv4,IPv6), APPLE TALK
	Fonts	PS3: 136Fonts + 2MM
	UTILITIES AND OTHER SOFTWARE COMPONENTS	EFI PRINT DRIVER COMMAND WORKSTATION WINDOWS/OSX FIERY WEBTOOLS EFI HOTFOLDER MS OFFICE FILTER FOR HOTFOLDER (WINDOWS ONLY) EFI VIRTUAL PRINTERS MACINTOSH PRINT CENTER PLUG-INS RUSH PRINTING, PRINT/PROCESS NEXT, JOB RE-ORDER SUSPEND ON MISMATCH QUICK DOC MERGE SCHEDULED PRINTING
	STANDARD COLOR MANAGEMENT COMPONENTS	EFI FIERY COLORWISE PRO TOOLS FIERY GRAPHIC ARTS PACKAGE
	IMPOSITION & DOCUMENT ASSEMBLY	MIXED MEDIA PAPER CATALOG TAB SHIFT INSERT TAB BOOKLET MAKER EFI IMPOSE, 1 LICENSE (OPTIONAL) EFI COMPOSE (OPTIONAL)

SECTION 8.2 FIERY PRINT CONTROLLER SPECIFICATIONS (CONTINUED)

FIERY PRINT CONTROLLER	DESCRIPTION	E - 41A FIERY PRINT CONTROLLER
	VARIABLE DATA PRINTING (STANDARD)	EFI FIERY FREE FORM FIERY VDP RESOURCE MANAGER
	VDP FILE FORMATS	PPML v2.2, FIERY FREE FORM, CREO VPS (APPLICATION SPECIFIC)
	PROOFING	FIERY GRAPHIC ARTS PACKAGE PREMIUM EDITION (OPTIONAL)
	MAKE READY	EFI COMPOSE FIERY EDITION (OPTIONAL)
	USB SUPPORT	SUPPORTED X6 (2 IN FRONT / 4 IN BACK)
	CONNECTIVITY COMPLIANCE	FIERY JDF EFI CENTRAL CERTIFIED ENGINE
	COLOR MANAGEMENT	EFI COLOR PROFILER SUITE INCLUDED IN THE SUITE ARE: PRINTER PROFILER - GENERATES PRINTER PROFILES FROM PRINTED COLOR CHARTS MONITOR PROFILER - CREATES A COLOR MANAGES VIEWING ENVIRONMENT PROFILE EDITOR - FACILITATES FINE TUNING OF ICC PROFILES PROFILE INSPECTOR - ANALYZES PROFILE INTEGRITY AND DEVICE GAMUT COLOR VERIFIER - PROVIDES PROFILE QUALITY ASSURANCE COLOR MANAGEMENT TOOLS
	JOB MANAGEMENT	FACI CONNECTIVITY KIT AND CWS FACI CONNECTIVITY KIT AND CWS
	SECURITY	STANDARD EFI SYSTEM 9R2 SECURITY REMOVABLE HDD KIT (OPTIONAL) EFI SECURE ERASE

SECTION 8.2 FIERY PRINT CONTROLLER SPECIFICATIONS (CONTINUED)

E - 41A FIERY PRINT CONTROLLER	
DESCRIPTION	<p>FIERY GRAPHIC ARTS PACKAGE PREMIUM EDITION (<i>OPTIONAL</i>)</p> <p>IMAGEVIEWER: INCLUDES COLOR WHEEL EDITING PER PAGE. VIEW RASTER DATA, TRAPS, DOT SHAPES, SCREEN ANGLES AND MOIRÉ PATTERNS, COLOR PROFILE CHANGES. EXPORTS RASTER FILE TO PDF FOR OFFLINE PROOFING. INCLUDES EASY NAVIGATION, MULTI-PAGE PREVIEW. ZOOMS UP TO 3200 PERCENT AND DOWN TO DOT CELL LEVEL.</p> <p>PAPER SIMULATION EDITING: REGISTERS AND ADJUSTS THE COLOR AND/OR WHITE POINT OF PAPER DEFINED IN CMYK SIMULATION PROFILES.</p> <p>HALFTONE SIMULATION WITH FREQUENCY PER COLOR: OFFERS THREE USER-DEFINED HALFTONE SCREENS, LPI AND SCREEN ANGLES PER COLOR CHANNEL, AND CUSTOM OR APPLICATION-DEFINED DOT SHAPES.</p> <p>2-COLOR PRINT MAPPING: PROVIDES UNIQUE PROOFING CAPABILITY FOR TWO COLOR PRESSES THAT IS USEFUL WHEN SPOT COLORS ARE KNOWN AT A LATER STAGE IN THE DOCUMENT APPROVAL PROCESS.</p> <p>CONFIGURABLE AUTO-TRAPPING: OFFERS CONFIGURABLE PARAMETERS SUCH AS: WIDTH, COLOR REDUCTION, SHAPE, OBJECT TYPE. IS APPLICATION INDEPENDENT, SO IT DOES NOT ADVERSELY AFFECT RIP PERFORMANCE.</p>
PROOFING	
DESCRIPTION	<p>FIERY GRAPHIC ARTS PACKAGE PREMIUM EDITION (<i>OPTIONAL</i>)</p> <p>FILTERS FOR HOT FOLDERS: AUTOMATES SENDING PRINT FILES TO A FIERY THROUGH SIMPLE DRAG & DROP OR PRINT-TO-FILE FUNCTION. INCLUDES A SET EXPERT LEVEL FILTERS (CT/LW, TIFF/IT, EPS, PS, PDF, DCS2, 1-BIT TIFF, PDF2Go, ExportPS, JPEG, PDF/X-1A AND PDF/X-3 PREFLIGHT) TYPICALLY FOUND WITHIN PRODUCTION WORKFLOW SYSTEMS.</p> <p>PREFLIGHT: INCLUDES REPORTS ON FONTS, SPOT COLORS, HIGH RESOLUTION FILES, HAIRLINES BELOW THRESHOLD, OVERPRINTS, AND PS ERRORS. VALIDATES VDP FILE SEARCH PATH AND RESOURCES. SUPPORTS FORMATS SUCH AS: PS, PDF, EPS, PPML, VPS AND VIPP.</p> <p>POSTFLIGHT: HAS OBJECTS (GRAPHICS, TEXT) THAT ARE COLOR-CODED. OFFERS DETAILED REPORT THAT IDENTIFIES COLOR SPACES AND PPD OPTIONS, PROVIDES INFORMATION ABOUT THE PRINTING ENVIRONMENT AND ADVICE ON POSSIBLE PROCEDURES AND VALUES. CAN ALSO PRINT A TEST PAGE TO VERIFY THE CONDITION OF THE PRINTING ENVIRONMENT.</p> <p>PROGRESSIVES: PRINTS A CMYK JOB WITH ONE SEPARATION, THEN TWO, THEN THREE, THEN FOUR. SIMULATES ONE-AND TWO-COLOR PRESSES INCLUDING THE SEQUENCE. IDENTIFIES SEPARATIONS FIERY SENDS TO THE PRINTER.</p> <p>CONTROL BAR: IS HIGHLY CUSTOMIZABLE WITH FIELDS TO DISPLAY JOB INFORMATION AND COLOR CONTROL BAR. HAS THE ABILITY INCORPORATE ANY EPS FILE.</p>
PROOFING (CONTINUED)	

SECTION 8.3

FIERY PRINT CONTROLLER SCREENING SPECIFICATIONS

FIERY PRINT CONTROLLER SCREENING	<i>Options (Job Ticket Setting)</i>	<i>Text</i>	<i>Graphics</i>	<i>Image</i>	<i>Application</i>
	200 Dot (1200dpi)	200lpi-Dot	200lpi-Dot	200lpi-Dot	
	200 Line + Fine Text (1200dpi)	270lpi-Line	200lpi-Line	200lpi-Line	Line graphics Color text accuracy
	200 Dot + Fine Text (1200dpi)	270lpi-Line	200lpi-Dot	200lpi-Dot	Accurate Text (Books on Demand)
	200 Dot + Fine Text & Graphics (1200dpi)	270lpi-Line	200lpi-Line	200lpi-Dot	Line (AutoCAD)
	Hybrid (1200dpi)	Hybrid-Dot	Hybrid-Dot	Hybrid-Dot	Graphics with periodical pattern and no-angle dependency (MS Office with pattern fill)
	175 Dot (1200dpi)*	175lpi-Dot	175lpi-Dot	175lpi-Dot	-To simulate offset printing -More stable than 200lpi
	150 Dot (1200dpi)	150lpi-Dot	150lpi-Dot	150lpi-Dot	Halo is prevented most
	175 Line + Fine Text (1200dpi)	270lpi-Line	175lpi-Line	175lpi-Line	Halo and grainy output is prevented
	200 Dot (600dpi)*	200lpi-Dot	200lpi-Dot	200lpi-Dot	
	175 Line (600dpi)*	175lpi-Line	175lpi-Line	175lpi-Line	

FIERY PRINT CONTROLLER E-41A OPTIONS	<i>Optional Component</i>	<i>Yes</i>	<i>No</i>
	SeeSequence Impose		
	SeeSequence Compose		
	SeeSequence Suite		
	EFI Graphic Arts Package		
	EFI Graphic Arts Package Premium		
	EFI Graphic Arts Package Premium Edition Upgrade		
	Color Profiler Suite v. 3.X (UV Version)		
	Color Profiler Suite v.3.X (Non-UV Version)		
	Color Profiler Suite Upgrade From v.2.X to v.3.X		
	Color Profiler Suite v.3.X (Software Only)		
	ES-1000 UV Filter v.2.0		
	ES-1000 Non-UV Filter v.2.0		
	FACI/Furniture Kit for E-41A		
	EFI Server HDD Security for E-41A		

SECTION 8.4**FIERY PRINT CONTROLLER SYSTEM REQUIREMENTS**

FIERY SOFTWARE SYSTEM REQUIREMENTS	Minimum Requirement	Windows XP / 2003 / Vista / Server 2008 / Server 2008 R2	Mac OS X
	Client Operating System	<p>The following Windows versions (<i>with latest service packs</i>) are supported for printer drivers and Fiery applications:</p> <p>Windows XP Home, 32 bit Windows XP Professional, 32 & 64 bit Windows Server 2003, Standard Edition, 32 bit Windows Server 2003, Enterprise Edition, 32 bit Windows Server 2003, Datacenter Edition, 32bit Windows Server 2003 SPI, 64 bit Windows Vista, Home Basic Edition, 32 & 64 bit Windows Vista, Home Premium Edition, 32 & 64 bit Windows Vista, Ultimate Edition, 32 & 64 bit Windows Vista, Business Edition, 32 & 64 bit Windows Vista, Enterprise Edition, 32 & 64 bit Windows 7 Windows Server 2008, Standard Edition, 32 & 64 bit Windows Server 2008, Enterprise Edition, 32 & 64 bit Windows Server 2008, Datacenter Edition, 32 & 64 bit Windows Server 2008, Web Server, 32 & 64 bit Windows Server 2008 R2, Standard Edition, 64 bit Windows Server 2008 R2, Enterprise Edition, 64 bit Windows Server 2008 R2, Datacenter Edition, 64bit Windows Server 2008 R2, Web Server, 64 bit</p> <p>Note: Fiery applications are supported on 64 bit operating systems, however they run in 32 bit mode only.</p>	<p>The following Mac OS versions are supported for printer drivers:</p> <p>Mac OS v.10.3.9 and later (Power PC Mac OS computers)</p> <p>Mac OS v.10.4 and later (<i>Intel-based and Power PC Mac OS computers</i>)</p> <p>Mac OS versions supported for Fiery applications:</p> <p>Mac OS v.10.4 and later (<i>Intel-based based Mac OS computers</i>)</p> <p>Mac OS v.10.5 (<i>Power PC G5 and Intel-based Mac OS computers</i>)</p> <p>Note: Hot Folders is only supported on Power PC G5 and Intel-based Mac OS computers.</p> <p>Mac OS v.10.6.x (<i>printer drivers not supported through Apple Talk</i>)</p>
	Client HDD required for printing and utilities	500MB available hard disk space for installation (<i>2GB hard disk space recommended for writing full previews of raster files and handling large files</i>)	80MB available hard disk space for installation (500MB hard disk space recommended for writing full previews of raster files and handling large files)
	Memory for printing and utilities	1GB of RAM for printing and operating utilities	
	Networking protocol	TCP/IP	
	Networking protocol for Fiery utilities	TCP/IP	TCP/IP, EtherTalk, and AppleTalk
	WebTools	<p>Java-enabled Web browser: Windows: Internet Explorer 6, 7 and 8 (<i>32 bit only</i>), Firefox v.3.5 Mac OS X: Safari v.4.0, Firefox v.3.5</p> <p>Note: Microsoft releases frequent updates to Internet Explorer. Because support cannot be guaranteed for all versions, use the versions specified for best results.</p> <p>A monitor and video memory that supports 16-bit color at a minimum resolution of 800 x 600 A TCP/IP-enabled network and E-41 and E-81 IP address or DNS name Web Services enabled on E-41 and E-81</p>	
	Command WorkStation	1.0GHz or greater Pentium 4 processor	1.6GHz or greater
		1GB RAM	
		500MB hard disk space available for application installation 2GB hard disk space available for application use A monitor that supports 16 bit color at a minimum resolution of 1024 x 768	
	SeeSequence (Impose and Compose) on Command WorkStation	In addition to requirements for Command WorkStation: Dongle to be installed on USB port for every client workstation Acrobat / PitStop software	

SECTION 8.5**RICOH TOTAL FLOW COLOR BUNDLES**

TotalFlow

Color Solutions Bundles

TotalFlow Color Standard

☐ **PREFERRED CONFIGURATION**

- EFI Graphic Arts Package
- ES-1000 Spectrophotometer
- EFI SeeSequence Impose 1 License
- 2 Days PPSE Integration and Training



TotalFlow Color Advanced

☐ **PREFERRED CONFIGURATION**

- EFI Graphic Arts Premium Package
- Color Profile Suite v3 with ES-1000
- EFI SeeSequence Suite (Impose and Compose)
- 3 Days PPSE Integration and Training



TotalFlow Color Advanced Plus

☐ **PREFERRED CONFIGURATION**

- Same as above including Fiery Furniture



SECTION 9.1 PAPER INPUT SPECIFICATIONS

LARGE CAPACITY TRAY (LCT RT5060)	Dimensions (W x D x H)	865 x 730 x 1218 mm / 34 x 28.7 x 47.9 inches
	Weight	Less than 185 kg / 407.8 lbs.
	Configuration	Console Type
	Power source	From mainframe
	Noise (Power level)	Less than 76dB
	Paper size	A5 (LEF)/HLT (LEF) – 13" x 19.2" <Custom Size Paper> Width: 100.0 to 330.2mm (3.94 to 13.00 inch) Length: 139.7 to 487.7mm (5.50 to 19.20 inch)
	Paper weight	52.3-300g/m2 14lb Bond -110lb Cover
	Paper capacity	4 th tray: 1,000 sheets 5 th tray: 2,000 sheets 6 th tray: 1,000 sheets
	Paper weight	4 th tray: 52.3-256 g/m2 14lb Bond - 95lb Cover 5 th tray: 52.3-300 g/m2 14lb Bond - 110lb Cover 6 th tray: 52.3-256 g/m2 14lb Bond - 95lb Cover
	Air Assist Paper Pickup	Yes (all tray)

☐ PREFERRED CONFIGURATION

MULTI BYPASS UNIT	Paper Capacity	500 sheets (80g/m2, 20lb Bond)
	Paper Size	A5-A3· 5 1/2" x 8 1/2" - 13" x 19.2"*1 with A3/DLT LCT <Custom Size Paper> Width: 100.0 to 330.2mm (3.94 to 13.00 inch) Length: 139.7 to 487.7mm (5.50 to 19.20 inch)
	Paper Weight	52.3 ~ 216g/m2, 14lb Bond to 80lb Cover
	Power Source	From LCT (From Mainframe→LCT)
	Paper Volume Sensors	In 4 steps: Near end, 0%, 50%, 100%
	Dimension (W x D x H)	690 mm x 561 mm x 210mm / 27.1 x 22 x 8.2 inches
	Weight	Less than 20kg / 44 lbs.

☐ PREFERRED CONFIGURATION

DLT / A3 TRAY	Dimensions (W x D x H)	495 x 530 x 175 mm / 19.4 x 20.8 x 6.8 inches
	Weight	10 kg / 22 lbs.
	Paper size	A3 SEF, B4 SEF, A4 11"x17" SEF, 8 1/2"x14 SEF, 8 1/2"x11"
	Paper capacity	1,000 sheets

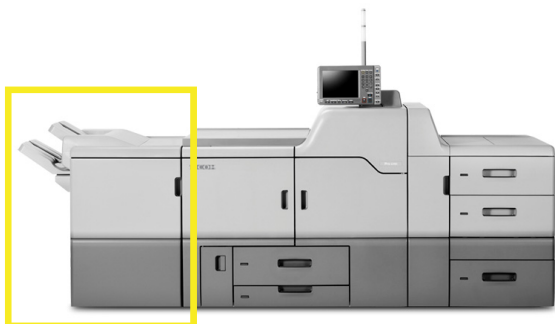
☐ PREFERRED CONFIGURATION

SECTION 9.2 PAPER INPUT SPECIFICATIONS

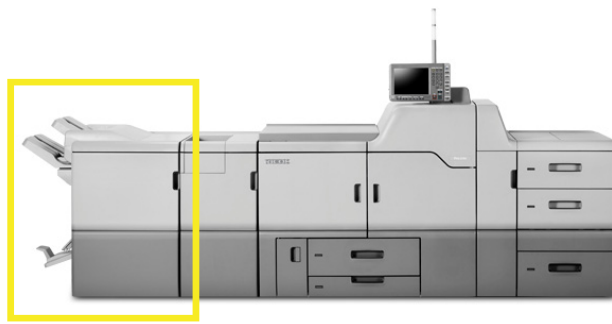
INPUT PAPER CAPACITY	Dimension (W x D x H)		1,320 x 910 x 1,218mm / 39.2 x 28.7 x 44.2 inches		
	Weight		Less than 550kg / 246.9 lbs.		
	ARDF		Standard		
	Paper Capacity	Standard	1 st tray: 1,000 sheets x2 (Tandem)		
			2 nd tray: 500 sheets		
		Optional	3 rd tray: 1,000 sheets 13"x19.2" LCT		
			4 th tray: 2,000 sheets 13"x19.2" LCT		
			5 th tray: 1,000 sheets 13"x19.2" LCT		
Bypass tray: 500 sheets					

SECTION 10.1 FINISHING SPECIFICATIONS

FINISHER SR 5030 / BOOKLET FINISHER SR 5040		Dimensions (W x D x H)	996 x 730 x 1125mm / 39.2 x 28.7 x 44.2 inches *Not including projections	
		Weight	SR5030 Less than 112kg / 246.9 lbs. SR5040 Less than 130kg / 28 lbs.	
		Configuration	Console type	
		Power Source	100-240V	
		Power Consumption	Less than 250W	
		Output Jogger	Standard	
		Proof Tray	Stack capacity	250 sheets (A4, 8 1/2" x 11 or smaller) 50 sheets (B4, 8 1/2" x 14" or larger) 80g/m2, 20 lb.Bond
			Paper size	Max up to 330.2 x 487.7 mm (13" x 19.2")
			Paper weight	<Without Z-folding> 60 g/m2-216g/m2 (16-40 lb.Bond, 50-80 lb.Cover, 90-110 lb.Index) <Z-folding> 64-105 g/m2, 17-28lb Bond
		Shift Tray	Stack capacity	3,000 sheets *SR5030 (A4 LEF, B5 LEF, 8 1/2" x 11 LEF) 2,500 sheets *SR5040 (A4 LEF, B5 LEF, 8 1/2" x 11 LEF) 1,500 sheets (A3 SEF, A4 SEF, B4, B5 SEF, 11" x 17" SEF, 8 1/2 " x 11" SEF, SRA4, 226 x 310mm) 1,000 sheets (12" x 18", SRA3, 13"x18", 12.6"x18.5", 12.6"x19.2", 13"x19", 13" x 19.2", 310x432mm) 500 sheets (A5 LEF, 5 1/2" x 8 1/2" LEF) 100 sheet (A5 SEF, 5 1/2" x 8 1/2" SEF) 30 sheets (Z-folding paper)
			Paper size	<Without Z-folding> Max Up to 330.2 x 487.7 mm (13" x 19.2") <Z-folding> Up to 12"x18"
			Paper weight	<Without Z-folding> 52.3-300g/m2 <Z-folding> 64-105 g/m2, 17-28lb Bond



☐ **PREFERRED CONFIGURATION**



☐ **PREFERRED CONFIGURATION**

SECTION 10.2 FINISHING SPECIFICATIONS (CONTINUED)

SR 5030 STAPLE SPECIFICATION	Paper size		B5-A3 8 1/2" x 11" – 11" x 17"
	Paper weight		<Without Z-folding> 64-80g/m2 (17-22 lb.Bond) <Z-folding> 64-105 g/m2 (17-28 lb Bond)
	Staple position		Top, Bottom, 2 Staples, Top-slant
	Staple Capacity	A4, B5, 8 1/2" x 11"	2-100 sheets
		A3, B4 11"x17", 8 1/2"x14"	2-50 sheets
		Z-folding	10 sheets
	Staple Replenishment		Cartridge exchange / 5,000 pins per cartridge

PUNCH UNIT FOR THE SR5030	Number of Punch	NA: 2 or 3 holes EU: 2 or 4 holes Scandinavian: 4 holes	Punch option is required.
	Punch Registration	Yes (Resist Roller and Side Registration Sensor)	
	Max. Thickness	209gsm	
	Punch Replenishment	NA 2 holes: 15,000 sheets NA 3 holes: 10, 000 sheets EU 2holes: 25,000 sheets EU 4 holes: 15,000 sheets Scandinavian 4 holes: 15,000 sheets	

SADDLE STICH	Paper size		B5-SRA3 8 1/2"x11"-13"x19.2"
	Paper weight		64-90g/m2 (17-24 lb.Bond)
	Staple position		Center 2 position
	Staple Capacity	64-80g/m2 (18-20lb Bond)	20 sheets
		80-90g/m2 (20-24lb Bond)	15 sheets
		Cover Sheet	One cover sheet (up to 163g/m2) can be included in the above stapling capacity.
Staple Replenishment		Cartridge exchange	

SECTION 10.3 FINISHING SPECIFICATIONS (CONTINUED)

STACK CAPACITY AFTER FINISHING		Paper size	# of Pages per set	# of Sets
	Without Z-folding	A4 LEF, B5 LEF 8 1/2" x 11" LEF	20-100	125-25
			10-19	200-105
			2-9	150
		A4 SEF, B5 SEF 8 1/2" x 11" SEF	10-100	150-15
			2-9	150
	Mixed-sized	A3, B4 11" x 17", 8 1/2" x 14"	10-50	150-30
			2-9	30
	With Z-folding (One size or mixed-sized)	One size A3 Z-folding & A4 B4 Z-folding & B5 11" x 17" Z-folding + 11" x 8 1/2"	1-10	30-3
	When Saddle Stitch	All sizes	2-5	30
			6-10	15
			11-15	10
			16-20	5

BOOKLET TRIMMER (TR5040)	Dimension (W x D x H)	1,115 x 591 x 555mm / 43.8 x 23.2 x 21.8 inches	
	Weight	75kg / 165 lbs.	
	Configuration	Console type / Optional unit for Finisher	Finisher SR5040 is necessary
	Power consumption	Universal Power Supply 100V – 240V NA: 60Hz EU: 50Hz Ave. 75W, Max. 250W	Plug
	Trimming Type	One side edge	
	Trimming Capacity	1-20 sheets (2-40 pages after folding)	20lb, 80g/m2
	Paper Size	13 x 19.2", 13 x 19", 12.6 x 19.2", 12.6 x 18.5" 13 x 18", SRA3(320 x 450mm), 12 x 18", A3, B4 SRA4(320 x 225mm), 226 x 310mm, 310 x 432mm, A4, B5, DLT, LG, LT <Custom Size> Width: 182 to 330mm / 7.16 x 12.9 inches Length: 257 to 488mm / 10.1 x 19.2 inches	*sizes before folding
	Stack Capacity	1 sheet: 60 sets * 2 - 5 sheets: 60 sets 6 - 10 sheets: 35 - 40 sets * 11 - 20 sheets: 20 - 25 sets *	* Stack capacity varies according to the size of the printed sheets
	Stacker Full Detection	Yes	
	Limitless Stack	Yes	Requires Service Adjustment

SECTION 10.4 FINISHING SPECIFICATIONS (CONTINUED)

COVER INTERPOSER	Dimension (W x D x H)	540 x 730 x 1,290mm / 21.2 x 28.7 x 50.7 inches	
	Weight	Less than 45kg / 99.2 lbs.	
	Power Source	From mainframe	
	Noise (Power level)	Less than 76dB	
	Paper Size	A3-A5 11"x17" – 5 1/2"x 8 1/2" MAX.13" x 19.2"/ 330mm x 487.7 mm	
	Paper weight	64-216 g/m2 17lb Bond -80 lb Cover	
	Paper capacity	200 sheets x 2 trays	20lb, 80g/m2
	Original set position	Center position	
	Original Set	Face Up, First sheet on top	
	Size change	From operation panel of mainframe	User changeable

RING BINDER	Dimensions (W x D x H)		870 x 730 x 1,010 mm / 34.2 x 28.7 x 39.7 inches
	Weight		Less than 140kg / 308 lbs.
	Power consumption		Less than 400W
	Power Supply		100-240V, 50/60Hz
	Paper size	Binding mode	A4_LEF, 8 1/2" x 11" _LEF
		Punching mode	A4_LEF, 8 1/2" x 11" _LEF
	Paper weight	Binding mode	64-216 g/m2 17lb Bond -80 lb Cover
		Punching mode	64-216 g/m2 17lb Bond -80 lb Cover
	Capacity of ring bind		2-100 sheets
	Number of holes	8 1/2" x 11"	21 holes
		A4	23 holes
	Ring Supply	Type	NA 1) 8 1/2" x 11", Black, 50 sheets 2) 8 1/2" x 11", Black, 100 sheets 3) 8 1/2" x 11", White, 50 sheets 4) 8 1/2" x 11", White, 100 sheets
			EU 1) A4, Black, 50 sheets 2) A4, Black, 100 sheets 3) A4, White, 50 sheets 4) A4, White, 100 sheets
		Replenishment	Cartridge exchange *75 sets/cartridge
	TAB Stock		Supported*1 *See the below drawings
	Stack capacity	Binding mode	11 sets *100 sheets /set
		Punching mode	100 sheets (200 pages in DPX)

SECTION 10.5 FINISHING SPECIFICATIONS (CONTINUED)

HIGH CAPACITY STACKER (SK5020)	Dimensions (W x D x H)		900 x 730 x 1000mm / 35.4 x 28.7 x 39.3 inches	
	Weight		Stacker:120kg/ 264.5 lbs, Roll-away Cart 15kg / 33 lbs.	
	Configuration		Console type	
	Power consumption		Less than 120W	
	Power Supply		NA: 120V, 60Hz *5V, 24V needs to be supplied from EU: 220-240V, 50/60Hz the main unit	
	Proof tray	Paper size	A6T to 331x 488mm (13"x19.2")	
		Paper weight	52-300g/m2	40-52g/m2 paper has to be tested
		Stack Capacity	250 sheets	
	Stack tray	Paper size	139.7x139.7mm to 330.2x487.7mm (13"x19.2")	
		Paper weight	52-300g/m2	
		Stack Capacity	A4/LT-SRA3/13"x19.2": 5,000 sheets B5-Half LT: 2,500 sheets	
		Output Jogger	Standard	
	Roll Away Cart		Yes (Includes one cart. Additional option cart is available)	
	Door Lock		Optional (Bracket for Lock is included in the box)*2	

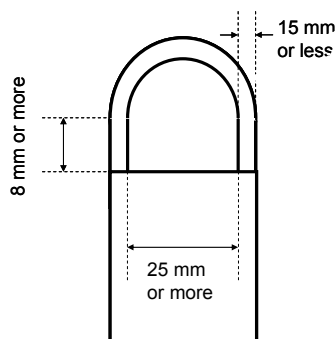
BUFFER PASS UNIT	Dimensions (W x H x D)		330 x 730 x 1010 mm / 12.9 x 28.7 x 39.7 inches	
	Weight		Less than 90kg / 198 lbs.	
	Power consumption		Less than 200W	
	Power Supply		NA: 100- 120V, 50/60Hz, 3A EU: 220- 240V, 50/60Hz, 1A	
	Paper Size		331 x 488mm(13' x 19.2') ~ A6T/Post Card	
	Paper Weight		52g/m ² – 300g/m ²	

*1: Recommended Lock Type

The following lock is recommended. Please procure it locally.



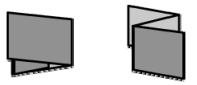





ABUS Lock: T84MB (50 or 60mm), 84MB (50 or 60mm), EC75 (50 or 60mm)

See the following drawing for alternative.



Bracket for Security Lock is included in the box

SECTION 10.6 FINISHING SPECIFICATIONS (CONTINUED)

MULTI FOLDING UNIT (FD5010)	Folding Type	Single Sheet	Z-fold, Half fold/Print inside, Half fold/Print outside, Letter fold-in/Print inside, Letter fold-in/Print outside, Letter fold-out, Double Parallel/Print inside, Double Parallel/Print outside, Gate Fold/Print inside, Gate Fold/Print outside		
		Multiple Sheets	Up to 3 sheets Half fold/Print inside, Half fold/Print outside, Letter fold-in/Print inside, Letter fold-in/Print outside, Letter fold-out,		Coated paper is supported
	Paper Size	Single Sheet Mode	<Z folding> B4, A4, A3, 8.5"x11", 8.5"x14", 11"x17", 12"x18"		*Multi-folding unit does not support custom paper size.
			<Half folding> B5, B4, A4, A3, 8.5"x11", 8.5"x14", 11"x17", 12"x18", 12.6"x18.5", 12.6"x19.2", 13"x18", 13"x19", 13"x19.2", 226x310mm, 310x432mm, SRA3, SRA4		
			<Letter folding in/out> B5, A4, 8.5"x11"		
			<Double parallel> B5, B4, A4, A3, 8.5"x11", 8.5"x14", 11"x17", 12"x18"		
			<Gate folding> B5, A4, 8.5"x11"		
		Multiple Sheet Mode	<Half folding> B5, B4, A4, A3, 8.5"x11", 8.5"x14", 11"x17", 12"x18", 12.6"x18.5", 12.6"x19.2", 13"x18", 13"x19", 13"x19.2", 226x310mm, 310x432mm, SRA3, SRA4		
			<Letter folding in> B5, A4, 8.5"x11"		
			<Letter folding out> B5, A4, 8.5"x11"		
	Paper Weight	Single Sheet Mode	64-105g/m2		
		Multiple Sheet Mode	64-80g/m2		
	Power Supply		NA: 120V, 60Hz EU: 220-240V, 50/60Hz		
	Power Consumption		270W		
	Dimension (W x D x H)		470 x 730 x 1,000mm		
	Weight		Less than 92kg		

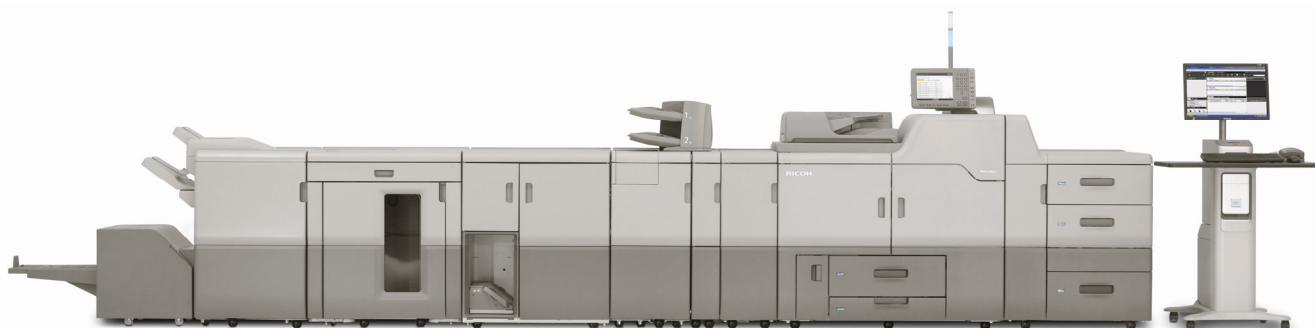
SECTION 10.7 MISCELANEOUS SPECIFICATIONS

TARGET SUPPLY YIELD	Toner	Black	48.5K prints/bottle	A4/LT, 8.75%, 25P/J
		Cyan	48.5K prints/bottle	A4/LT, 8.75%, 25P/J
		Magenta	48.5K prints/bottle	A4/LT, 8.75%, 25P/J
		Yellow	48.5K prints/bottle	A4/LT, 8.75%, 25P/J
	Staple	SR5030/SR5040 Side Staple	Staple Set Cartridge : 5K shots/cartridge Staple Refill Cartridge : 5K shots/cartridge	
		SR5040 Saddle Stitch	Staple Set Cartridge : 5K shots/cartridge Staple Refill Cartridge : 5K shots/cartridge	
	Ring cartridge		75 sets/cartridge	Cartridge exchange
Waste Toner Bottle		70K	A4/LT, 8.75%, 25P/J2 Color Ratio: 80%	

Please note that toner yields are subject to fluctuate due to a variety of factors to include environment, total ink density, substrate, machine settings and file design. The numbers published in the above table represent data which was recorded at Ricoh Engineering. As more machines are placed in the field, additional data may be collected to further adjust these numbers.

SUPPLY STORAGE	Item	Transport	Storage	Storage Period
	Toner	-30 to +45 deg C 15 to 90% RH	-30 to +45 deg C Under 90%RH	Less than 12 months from production
	Developer	-30 to +45 deg C 15 to 90% RH	-30 to +45 deg C Under 90%RH	Less than 12 months after production

ENVIRONMENTAL REGULATION	BAM		Target
			No
	Energy Star 1.2 Compliant	With EFI Controller E-41A	Yes



SECTION 11.1 **MEDIA AND SUBSTRATE**

The substrate handling capabilities of the Pro C651EX / C751EX / C751 series range from 60 gsm to 300gsm with an auto-duplex capability of 252gsm. Supported media include plain, coated and uncoated stocks.

The Pro C651EX / C751EX / C751 manages media using a “Paper Library” which is resident to the print engine.

All paper library entries are defined at the Pro C651EX / C751EX / C751 panel and automatically synchronized with the Fiery Print Controller (*rip*).

The Paper Weight parameter works with several ranges of weights in gsm. Each Paper manufacturer publishes specifications for all media and this information can also be found on the label of the packaging if applicable.

Once the media is defined on the Pro C651EX / C751EX / C751 panel, registering the media to a specific paper tray and choosing the media within job ticket is quite simple using Command Workstation or the Operator Panel.

The design of the Paper Library architecture on the Pro C651EX / C751EX / C751, allows the print engine and the Fiery Controller (*rip*) to fine tune and utilize optimal imaging and fusing Environment specific to the substrate when and if necessary. Additionally, the Fiery controller interface to the Paper Library on the Pro C651EX / C751EX / C751 allows media-specific ICC profiles to be assigned to each individual entry using the “Paper Catalog” which resides on the Fiery.

The Paper Catalog is accessible using Command Workstation version 5.

The result of the above architecture is that any media which is defined within the workflow, will use the optimal fusing and imaging settings as well as the correct ICC profile to achieve color accuracy. This is especially beneficial when content will potentially print on a variety of media as well as within automated workflows.

Ricoh Production Printing has heavily invested in knowledge, processes and infrastructure to ensure your solution is capable of running a wide range of substrates. From plain to coated, from synthetic to carbonless, we are proud to support our customers media requirements.

The Ricoh Pro C651EX / C751EX / C751 models include a published specification on media capabilities. Experience has indicated that the device exceeds expectations. Ricoh has established two world-class testing facilities in Atlanta, Georgia and in Tustin, California within our Hardware Verification laboratory. At these sites, and with as little as 500 sheets, we will perform a variety of tests designed to evaluate the performance of the media. Image Quality (*solid densities, toner adhesion, fusing strength, gloss, skew*), Image performance (*voids, toner scatter, lines and image anomalies*),

Feed performance (*misfeeds, jams, curl, wrinkles, tracks, stacking performance*) and environmental tests (temperature, humidity) are a few of the defined tests we use to ensure that an approved substrate will run in your environment while providing consistent and optimal results.

Please consult with your local Production Printing Solutions Engineer (PPSE) for any questions regarding media testing on the Ricoh Pro C651EX / C751EX / C751 models.

SECTION 11.2 **MEDIA AND SUBSTRATE WORKSHEET**

Use this worksheet to document any substrate which will potentially run through the Pro C651EX / C751EX / C751 at the customer location. This will help to calibrate, profile, and fine-tune the media for the printing conditions within the environment.

<i>MANUFACTURER</i>	<i>TYPE</i>	<i>BASE WEIGHT</i>	<i>GRAIN DIRECTION</i>	<i>NOTES</i>

Use this second table to document any substrate which will need to be tested by Ricoh's Media Qualification Process as described on the previous page. This will help to expedite testing and provide results for the implementation of the Pro C651EX / C751EX / C751 on site.

<i>MANUFACTURER</i>	<i>TYPE</i>	<i>BASE WEIGHT</i>	<i>GRAIN DIRECTION</i>	<i>NOTES</i>

RICOH PPSE Initials _____

Customer Initials _____

SECTION 12.1 POWER REQUIREMENTS**INPUT VOLTAGE LEVELS**

NORTH AMERICA	208 TO 240V, 50/60 Hz MORE THAN 20A
EUROPE / ASIA	220/230/240V 50/60 Hz: MORE THAN 16A

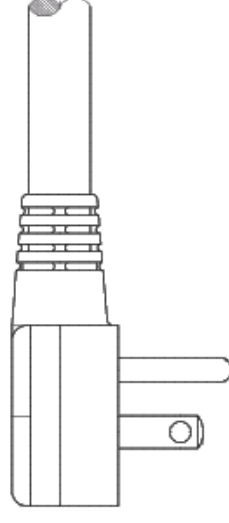
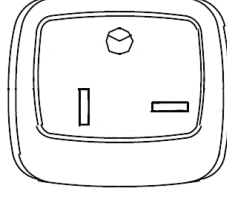
NOISE EMISSION

Stand-by	Less than 52.5dB – 72dB (C1a) Less than 55.5dB – 72dB (C1b/P1)	Less than 52.5dB – 72dB (C1a) Less than 55.5dB – 72dB (C1b/P1)
Printing	Less than 72dB – 75dB (All models)	Less than 78dB – 79dB (All models)

NOTE: BASED ON THE FULLY CONFIGURED SYSTEM

POWER CONSUMPTION

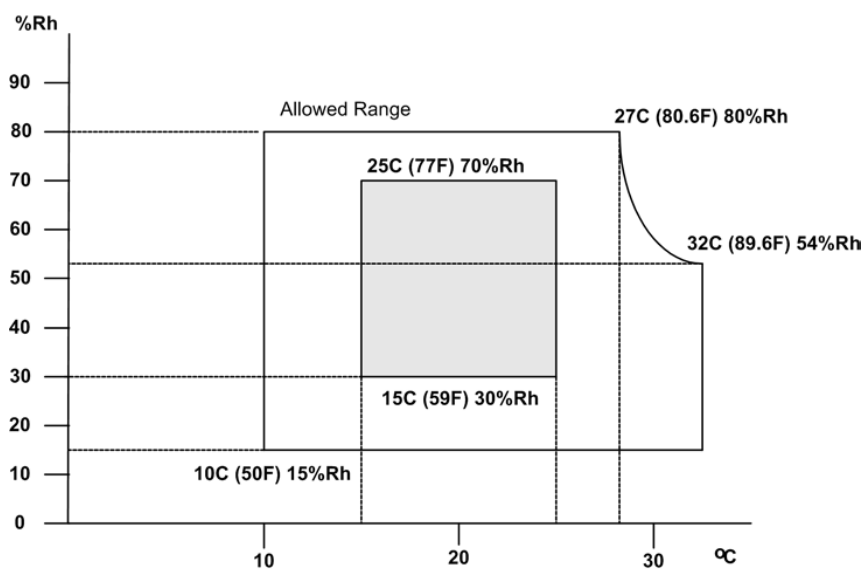
MAX (PRINTING)	LESS THAN 4000W
STANDBY	LESS THAN 30W

**Energy Star**

ITEM	UNIT DESCRIPTION	POWER SPECIFICATIONS	NA REQUIREMENTS	POWER SUPPLY PLUG TYPE
FIERY E-41A	FIERY CONTROLLER / REQUIRED FOR ALL UNITS	120v, 50/60Hz; 15A	120v / 15A	NEMA 5-15
FACI LCD MONITOR	FACI CONNECTION KIT LCD MONITOR	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
SR5040	BOOKLET FINISHER	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
TR5040	TRIMMER UNIT FOR SR5020	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
SR5030	STAPLER FINISHER	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
ZF4000	Z FOLDER	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
RB5010	RING BINDER	100v-240v, 50/60Hz; 15A	120v / 15A	NEMA 5-15
SK5020	HIGH-CAPACITY STACKER	120v, 50/60Hz; 15A	120v / 15A	NEMA 5-15
BUFFER PASS UNIT	BUFFER PASS UNIT TYPE 5010	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
FD5010	MULTI-FOLDING UNIT	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
BK5030	PLOCKMATIC PRODUCTION BOOKLET FINISHER	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15
GBC	GBC STREAMPUNCH PRO EX	120v, 50/60Hz: 15A	120v / 15A	NEMA 5-15

SECTION 12.2**ENVIROMENTAL REQUIREMENTS**

- If the machine is installed in a location where the ambient temperature is more than 30°C (86°F), do not run full color printing longer than 2 hours, and never turn the main power switch off immediately after a long print job. Leave the machine on so that the fans can expel the hot air from the machine and cool the electronic components.
 - If this machine is to be used in a location where both temperature and humidity are high, the tray heaters should be turned on. The tray heaters for the paper bank are built in. Just open the 1st and 2nd tray and turn them on.
1. If the installation site has air-conditioners or heaters, put the machine in a location that agrees with these conditions:
 - Where there are no sudden temperature changes from low to high, or high to low.
 - Where the machine will not be directly exposed to cool air from an air conditioner in the summer.
 - Where the machine will not be directly exposed to reflected heat from a heater in the winter
 2. Do not put the machine where it will be exposed to gases like ammonia that can cause corrosion.
 3. Put the machine on a strong level surface. The front and rear of the machine must be level ± 2.5 mm (0.1").
 4. Never put the machine where it can be subjected to strong vibration.
 5. Never connect the machine to a power source shared with other electrical devices.
 6. The machine can generate an electromagnetic field which can cause interference with radio or television reception.

Recommended Temperature/Humidity Range for Operation

Recommended: 23C (73.4F), 50% Rh

d074i503

Target Temperature	23 degrees C (73.4 degrees F) 50% RH
Temperature Range	10-30 degrees C (10-90 degrees F)
Humidity Range	15 to 80% RH
Ambient Illumination	Less than 1500 lux
Ventilation	Air turnover rate of more than 30 m ³ /hr/person
Ambient Dust	Less than 0.10 mg/m ³

SECTION 12.3**MACHINE CLEARANCE REQUIREMENTS**

The illustration on the following page is a top view of the main machine. This illustration is not drawn to scale.

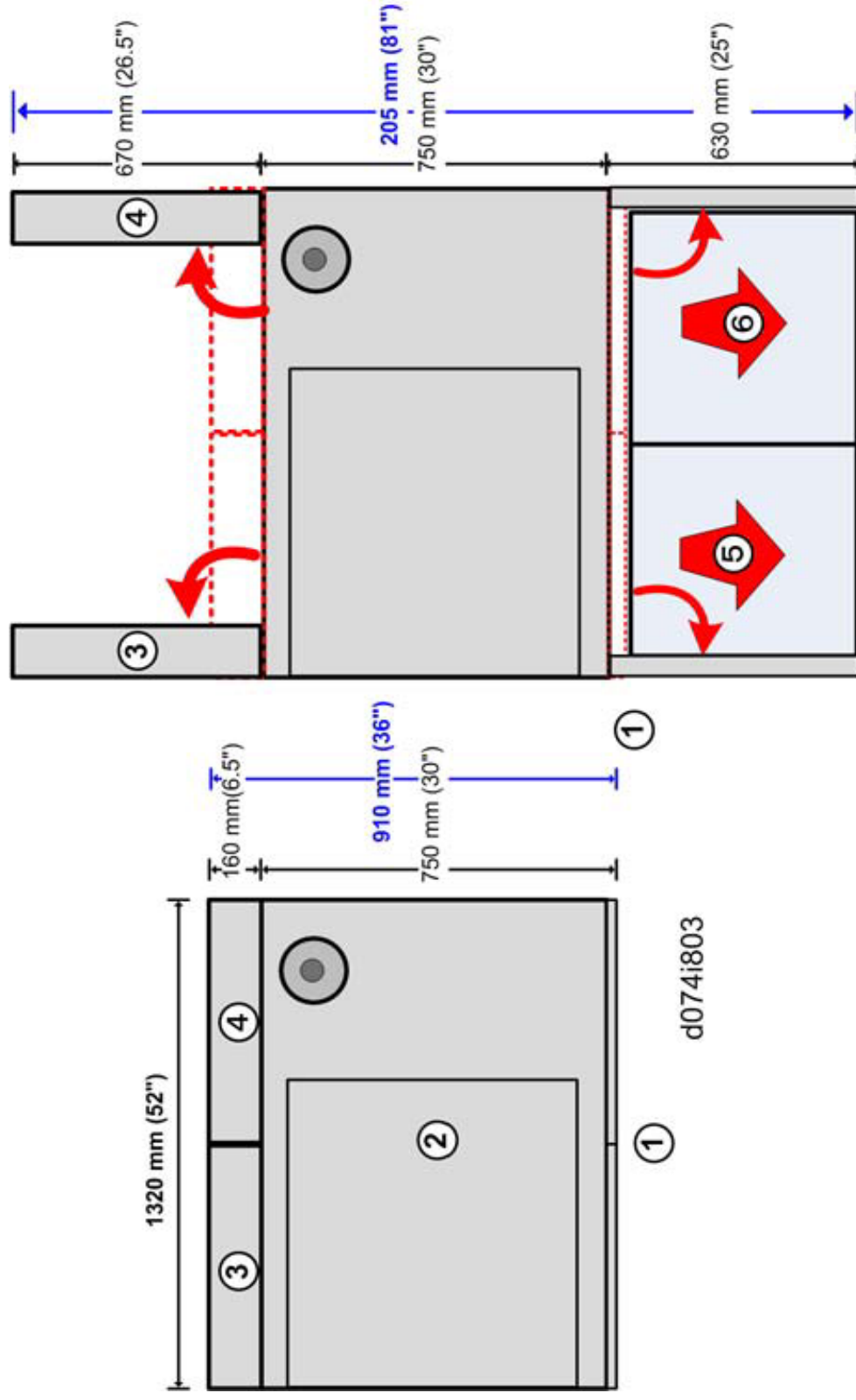
Measurements are rounded up slightly, but they will allow you to estimate how much space will required to work around the machine and service the machine without moving it.

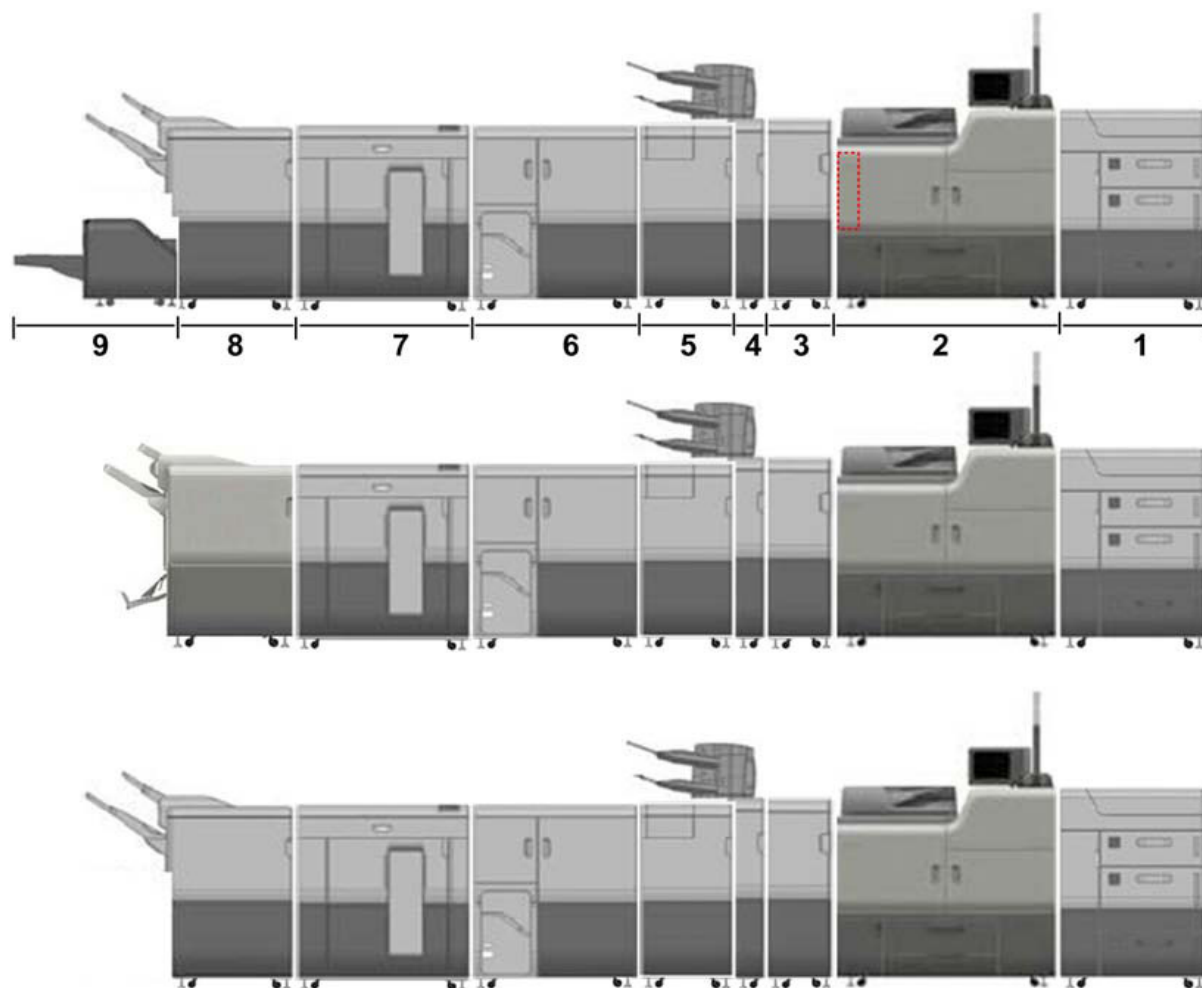
- Approximately **670 mm (26.5 in.)** clearance required behind the machine with both rear boxes open.
- Approximately **630 mm (25 in.)** at the front of the machine with both front doors open.

No.	Part	Range of Movement
1	Front Doors	Both doors swing open to the right
2	Main Machine	Remains stationary
3	Cooling Box	Swings open to the rear after removing 3 screws
4	Controller Box	Swings open to the rear after removing 3 screws
5	Left Drawer	Slides open to the front for servicing (fusing unit, etc.)
6	Right Drawer	Slides open to the front for servicing (registration unit, etc.)

- The rear boxes (cooling box and controller box) are on hinges and can swing open to the rear in order to service parts on the back of the machine (motors, sensors, etc.)
- The front doors swing open to the front, and then the left drawer or right drawer (or the ITB unit as well) can be pulled out the front of the machine on their rails for servicing.

SECTION 12.3 MACHINE AND SPACE CLEARANCE REQUIREMENTS



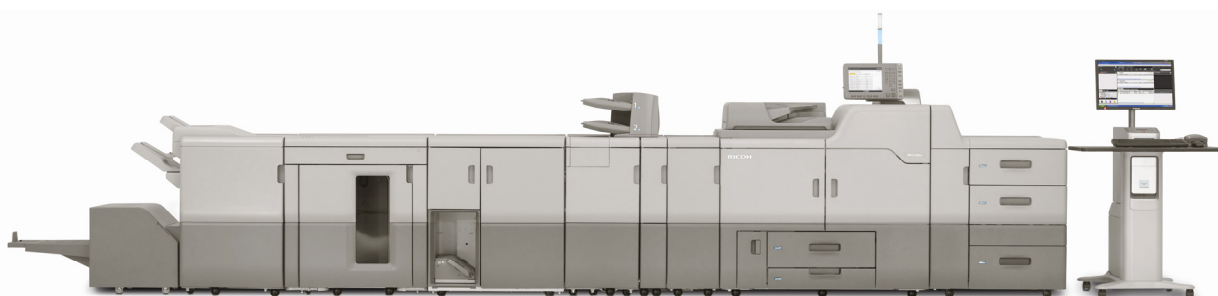
SECTION 12.4**MACHINE FOOTPRINT**

No.	Unit	millimeters	inches
1	A3 / DLT LCIT	880	35
2	Main Machine	1320	52
3	Buffer Pass Unit	330	13
4	Cover Interposer Tray	164	7
5	Multi Folding Unit	470	19
6	Ring Binder	870	35
7	High Capacity Stacker	900	36
8	Finisher	990	39
9	Trimmer Unit	1115	44
	Total 1 (mm, inches)	7422 mm	292 inches
	Total 2 (mm, feet)	7.4 m	25 feet

SECTION 12.4**MACHINE FOOTPRINT** (CONTINUED)**Notes:**

- The Decurler Unit is not listed because it is installed inside the machine.
- The Multi-Bypass Tray is not listed because it is installed on top of the LCIT
- The Buffer Pass Unit (3) is required for the Stacker Unit(7).
- Only one High Capacity Stacker (7) can be installed in the line.
- If the Trimmer Unit (9) is not installed, the booklet tray for the Booklet Finisher must be installed to hold stapled booklets. The booklet tray must be removed in order to install the Trimmer Unit.

No.	Unit	millimeters	inches
1	A3 / DLT LCIT	880	35
2	Main Machine	1320	52
3	Buffer Pass Unit	330	13
4	Cover Interposer Tray	164	7
5	Multi Folding Unit	470	19
6	Ring Binder	870	35
7	High Capacity Stacker	900	36
8	Finisher	990	39
9	Trimmer Unit	1115	44
	Total 1 (mm, inches)	7422 mm	292 inches
	Total 2 (mm, feet)	7.4 m	25 feet



SECTION 12.5 **MACHINE DELIVERY AND SETUP**

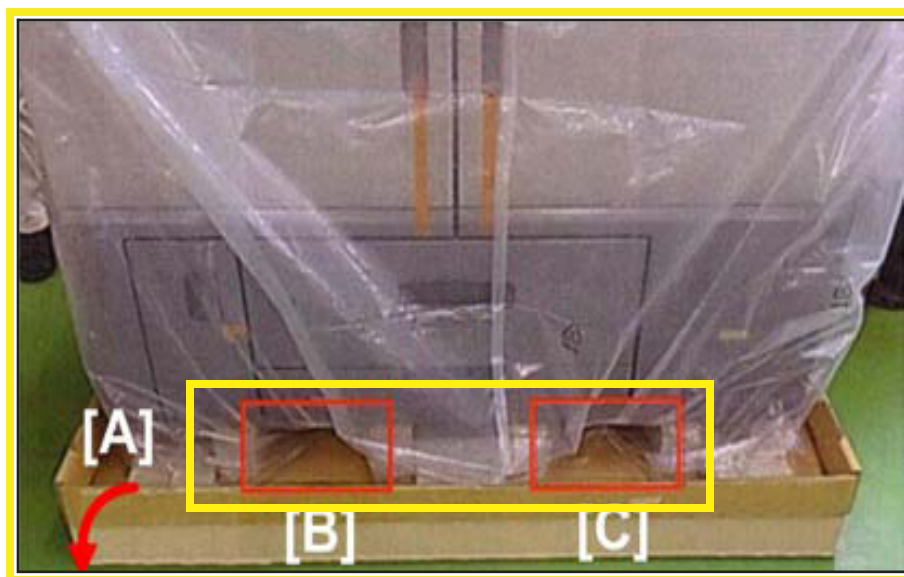
- As stated throughout this document, a forklift and an operator are required to remove the Pro C651EX / C751EX / C751 from the shipping pallet.
 - Care and precision must be exercised to remove the main unit properly to insure optimal machine performance.
 - Please consider machine and unit dimensions when an elevator is required to deliver
 - Included on this page are pictures of the process required to remove the main unit from its shipping pallet.
 - If the customer site does not have an adequate loading dock, a forklift and an operator, the machine must be removed from the main unit at a RICOH location.
- **Please indicate whether or not this can be accomplished at the customer site by checking the applicable statement below.**
- ☐ The main unit can be removed from the shipping pallet at the customer site with a forklift and an operator.
- ☐ The main unit cannot be removed from the shipping pallet at the customer site and needs to be removed at the RICOH location prior to delivery and installation.



*****The following page shows the location where the forklift will need to position itself to lift the main unit from the shipping pallet*****

SECTION 12.5 **MACHINE DELIVERY AND SETUP** *(CONTINUED)*

This page shows an image of the Main Unit and the position of the forklift required to remove it from the shipping pallet.



KEY REQUIREMENTS TO DELIVER AND MOVE THE MAIN UNIT

A forklift is required to lift the RICOH Pro C651EX / C751EX / C751 off of its shipping pallet (a pallet jack **cannot** be used). If the customer cannot provide a forklift, the main unit needs to be removed from the pallet and soft shipped to the customer.

Care should be taken strapping down the machine for transit as the Front Door hinges can be bent or broken causing intermittent open door indications and/or jamming.

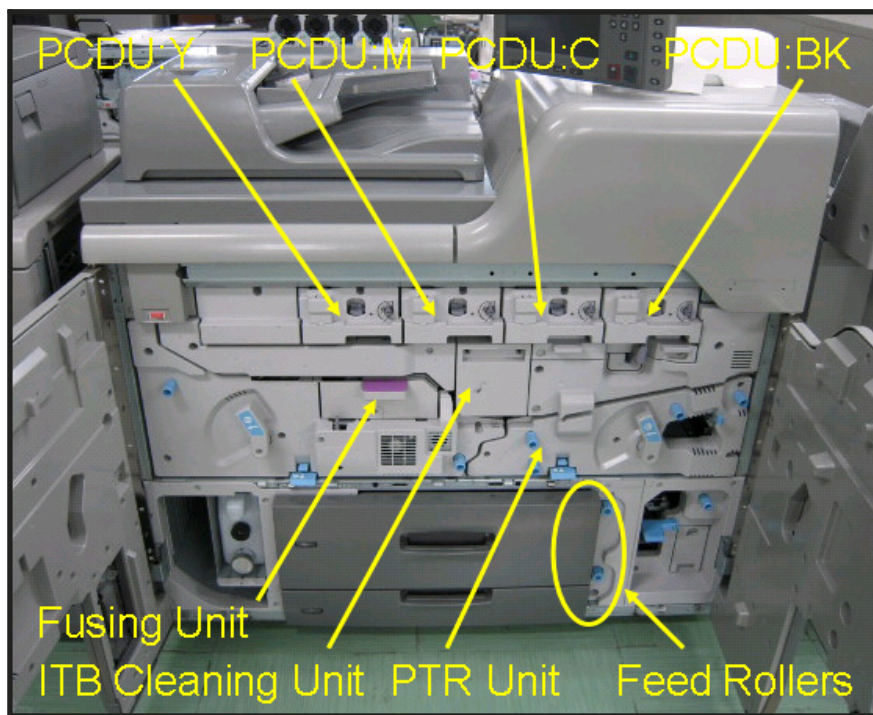
The on site delivery path should be planned in advance to avoid transportation issues.

Do not push/pull on the Operation Display Panel Support Arm or the Toner Hopper Assembly when moving the main unit.

SECTION 13.1 THE PRO C651EX / C751EX / C751 TCRU PROGRAM

The TCRU (*Trained Customer Replacement Unit*) Program allows the customer to perform routine maintenance on the Pro C651EX / C751EX / C751 to reduce downtime, maximize image quality and overall machine performance.

Although the TCRU Program is voluntary, customers have the option of participating in the Shared Service (*self maintenance of unit replacement*) or Full Service. If Full Service is chosen, the TCRU is used as a FRU (*Field Replaceable Unit*) by Field Technicians as a tool to reduce service time.



Onsite TCRU Training Details

Training will be conducted by the Installing Field Service Representative (*FSR*) or the Customer Service Representative (*CSR*).

When: At Machine Installation and also a refresher at the 1st TCRU replacement (at PM Alarm)

Critical Documents/Process to Review:

- TCRU Replacement & Troubleshooting Manuals (*included in the TCRU kit*)
- TCRU Replacement Form (Appendix 2)
- TCRU Replacement Workflows – PM & EM
- Addendum – Shared Service (TCRU) Agreement

Simulations Performed:

- The actual replacement of all TCRU's.
- Key Operator will remove and replace each TCRU to verify procedures

Time/Duration: Plan on spending 45 – 60 minutes for Key Operator Training.

SECTION 13.1 THE PRO C651EX / C751EX / C751 TCRU PROGRAM (CONTINUED)***There are two kinds of TCRU/ORU Kits.*****Set A:** Each PM unit and accessories without the Fuser unit.

There are two versions of Set A. One is for NA/EU, and the other is for AP. Although contents are same, the kit for NA/EU will be consisted of recycle system package, and the one for AP is same as the current one.

Set B: Fusing Unit.

There are two versions of Set B. One is for NA/EU, and the other is for AP. Similar to Set A, the package is different.

TCRU/ORU Type C751 (Set A) for NA/EU Main Components

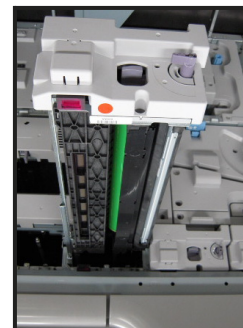
Part Number	Description	Q'ty	Notes
D0746400	Belt Cleaning Assembly	1	
D0742330	Drum Cleaning Assembly	4	
D0744450	Web Cleaning Unit Assembly	1	
D0746201	Transfer/Separation Unit	1	
D0742150	Charge Unit	4	
D0142380	Compression Spring Drum Assembly	4	
D0742252	Frame Photoconductor	4	
D0749510	OPC Drum Assembly	4	
AF030072	Paper Feed Roller, Pickup	1	For mainframe
AF031080	Paper Feed Roller, Feed	1	For mainframe
AF032080	Paper Feed Roller, Separate	1	For mainframe
AF030071	Paper Feed Roller, Pickup	3	For LCIT
AF030171	Paper Feed Roller, Feed	3	For LCIT
AF032041	Paper Feed Roller, Separate for Manual Feed	3	For LCIT
D0747690	Brush, Blower	1	
D8378612	Driver, TCRU	1	
G1783799	Setting Powder	1	

TCRU/ORU Type C751 (Set B) for NA/EU Main Components

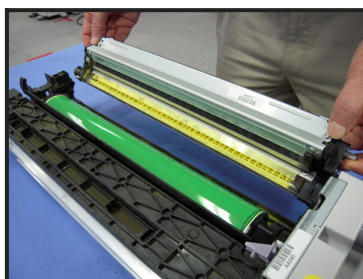
D0744483	Fusing Unit 230V Assembly NA/EU	1	
D0746670	Collection Bottle Assembly	1	

SECTION 13.1 THE PRO C651EX / C751EX / C751 TCRU PROGRAM (CONTINUED)*From the PCDU*

Unit	Yield	Qty.	Disposal/Recycled
Drum Cleaning Unit	300k	4	Recycled
Drum Charge Roller	300k	4	Recycled
Drum	a 1200k / b 1350k	4	Disposal



Drum Cleaning Roller



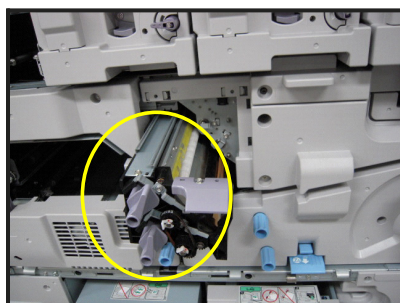
Drum Cleaning Unit



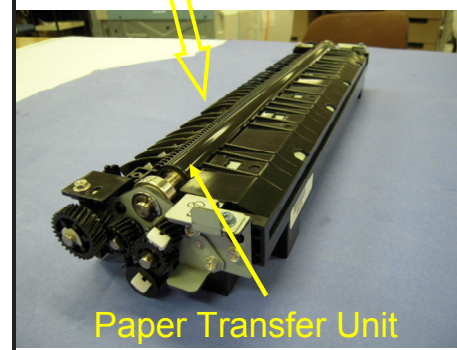
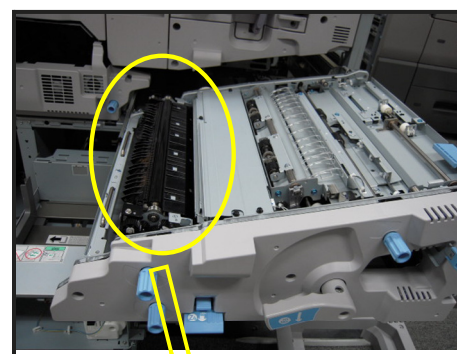
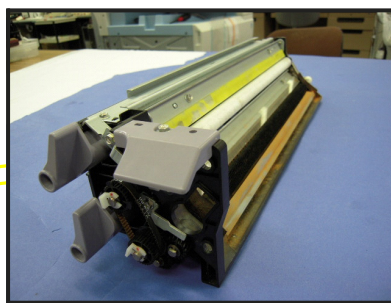
Drum

From the Paper Transport Unit

Unit	Yield	Qty.	Disposal/Recycled
ITB Cleaning Unit	600k	1	Recycled
PT Unit	300k	1	Recycled



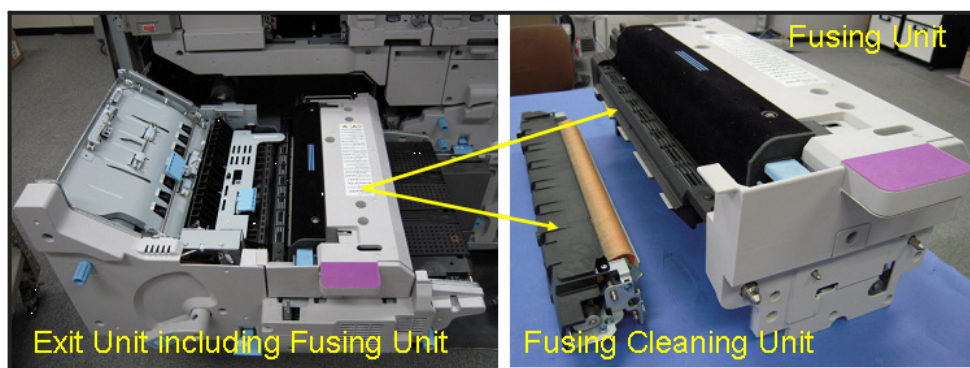
ITB Cleaning Unit



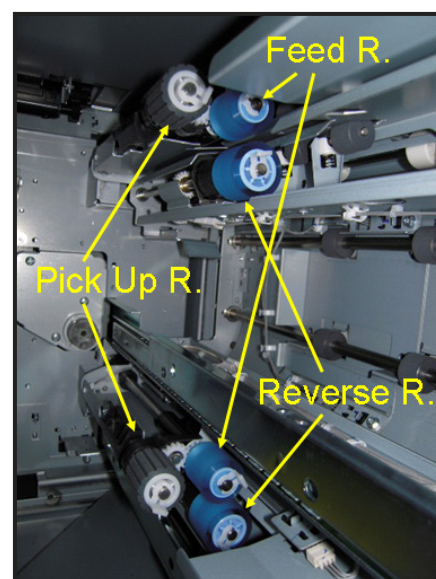
Paper Transfer Unit

SECTION 13.1 THE PRO C651EX / C751EX / C751 TCRU PROGRAM (CONTINUED)***Fusing Unit***

<i>Unit</i>	<i>Yield</i>	<i>Qty.</i>	<i>Disposal/Recycled</i>
Fusing Unit	650k	1	Recycled
Fuser Cleaning Unit	450k	1	Recycled

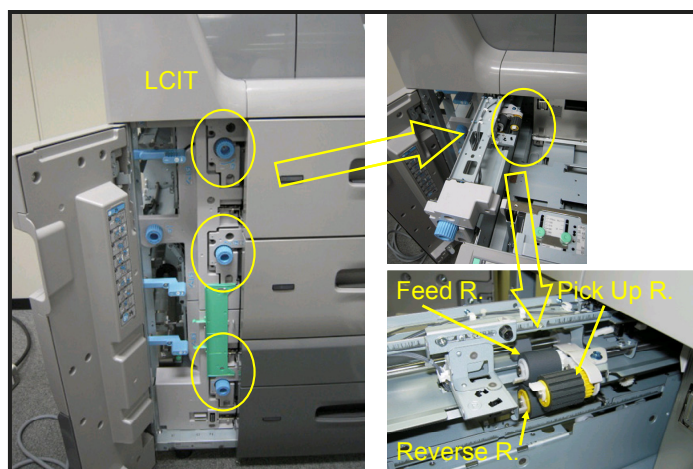
***Paper Feed in Mainframe***

<i>Unit</i>	<i>Yield</i>	<i>Qty.</i>	<i>Disposal/Recycled</i>
Pick up Roller	1000k	2	Disposal
Feed Roller	1000k	2	Disposal
Reverse Roller	1000k	2	Disposal

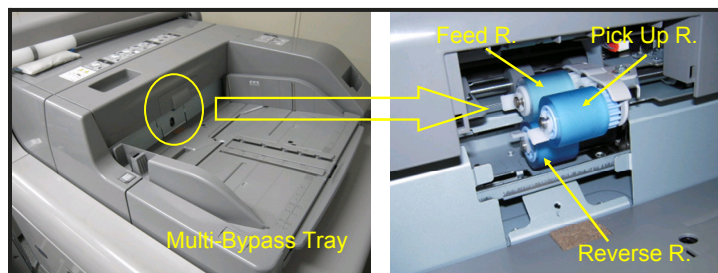


SECTION 13.1 THE PRO C651EX / C751EX / C751 TCRU PROGRAM (CONTINUED)**LCIT**

<i>Unit</i>	<i>Yield</i>	<i>Qty.</i>	<i>Disposal/Recycled</i>
Pick up Roller	300k	3	Disposal
Feed Roller	300k	3	Disposal
Reverse Roller	300k	3	Disposal

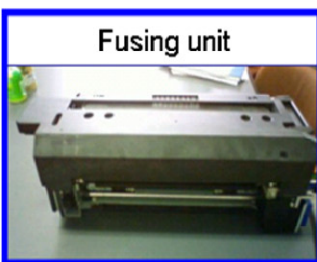
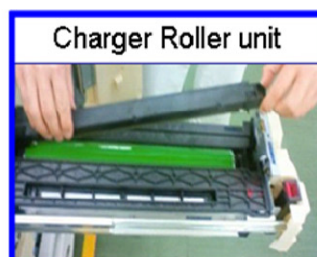
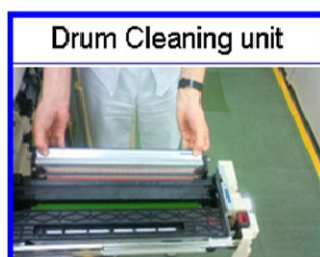
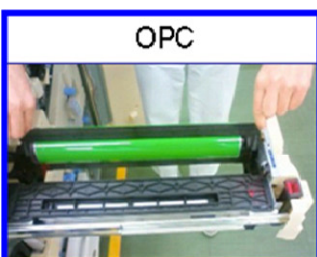
**Mult-Bypass Tray**

<i>Unit</i>	<i>Yield</i>	<i>Qty.</i>	<i>Disposal/Recycled</i>
Pick up Roller	1000k	1	Disposal
Feed Roller	1000k	1	Disposal
Reverse Roller	1000k	1	Disposal



SECTION 13.1 THE PRO C651EX / C751EX / C751 TCRU PROGRAM (CONTINUED)

The TCRU kit would be delivered at the same time as the machine installation. Please note that the operator training is mandatory in order to perform unit replacement at customer site. The operator training would be held either at the customer site by a Field Engineer or at a training center by a Certified Product Trainer. The Customer Service Engineer or Trainer would train the operator using a TCRU Operation Manual prepared locally.



To minimize the preventative and/or emergency service time of the Fusing Unit, it is strongly recommended that **TCRU Kit B** be ordered. If the workflow requires running heavy weight media and different paper widths (11" / 12" / 13") an additional Fuser Unit may be required.

ORU - Operator Replaceable Unit (below)

A waste toner bottle is considered a CRU (Customer replaceable unit). Since a customer can replace a waste toner bottle whenever necessary, it is unnecessary to wait for a Field Service

Engineer to replace the bottle.

**Waste Toner Bottle**

SECTION 14.1 THE RICOH @REMOTE SERVICE

The **@Remote Service** allows the RICOH Pro C651EX / C751EX / C751 to communicate at regular intervals back to Ricoh to meet three distinct objectives.

- To automatically place service calls
- To communicate internal usage counter information
- To automatically place supply (toner) orders

The service communicates via secure http (**HTTPS**) at predetermined intervals thus reducing the customer interaction and down time.

The following chart describes the three features in more detail. The second chart describes the TCP/IP Ports and the @Remote Events which occur automatically using this service.

For additional information, a Brochure and a White Paper on @Remote is available from RICOH.

<i>Advantages</i>	<i>Main Features</i>	<i>Current</i>	<i>With Ricoh's @Remote Service</i>
Reduce Device Downtime	Automatic Service Call	When Service Calls occur, customers contact their sales/service company for device maintenance or repair.	The @Remote Service can receive device failure calls automatically and carry out remote diagnostics and perform remote updates in the event of firmware changes/updates
Automated Counter Checking	Automatic Counter Reading and Billing	Meter reading is usually by post-card, fax, or telephone between customer and service company.	The @Remote Service carries out meter readings periodically without requiring end user intervention.
Ordering Supplies (Toner)	Automatic Supply Replenishment	When supplies run out, customer contact their sales/service company to order or stock up on supplies.	The @Remote Service can obtain toner level information from Ricoh devices automatically.

<i>Event</i>	<i>Communications Description</i>	<i>Port Number</i>	<i>Protocol</i>	<i>Type</i>
The @Remote Service is sending information by email	Remote Communication Gate sends to the IT Administrator	25	SMTP	TCP/IP
The @Remote Service is authenticating in POP before SMTP	Remote Communication Gate sends to POP Server	110	POP	TCP/IP
The @Remote Service is sending notification to Communication Server via HTTPS	Remote Communication Gate sends to RICOH Communication Server	443	HTTPS	TCP/IP
The @Remote Service is requesting firmware information				

SECTION 14.2

THE @REMOTE SERVICE BROCHURE



A Brochure and a White Paper are available from RICOH to provide detailed information on the @Remote service.

To obtain a copy of these resources, contact your RICOH Production Print Specialist.

Ricoh Embedded @Remote

Automated service calls and more

Today, if your MFP or printer needs attention, you need to identify the problem and make the call. The Ricoh @Remote™ system has functionality to reduce these unwelcome surprises.

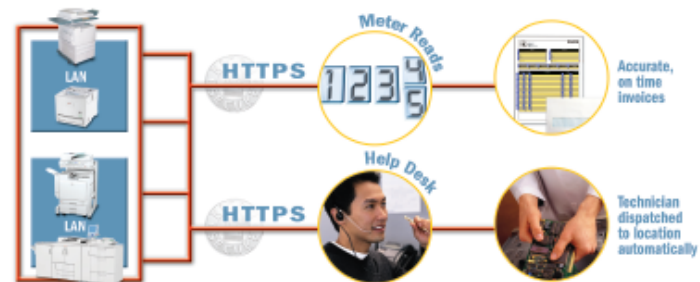
- If a device recognizes that it needs service, Ricoh embedded @Remote will automatically send a message to your service provider alerting them to the potential problem. So a field engineer could be on the way by the time anyone in your office notices a problem!
- Manual requests for service will be greatly reduced as self-diagnostic data is automatically forwarded to a Data Center. The service provider receiving the information can then take immediate and appropriate action, making rapid arrangements to streamline the maintenance process.
- Service efficiency can be maximized, as field engineers are able to arrive at your location with the tools and parts to service your system in one stop.
- Alerts can be sent warning about low toner, further ensuring that your devices are constantly up and running and you'll never run out of the toners that keeps you printing and copying.
- Firmware can be upgraded remotely, making sure the device is always up-to-date.

Eliminate manual reading and collection of meter data.

The Ricoh embedded @Remote™ Intelligent Remote Management System eliminates manual collection and reporting of usage data from Ricoh MFPs and printers for companies with cost-per-copy leases. And since @Remote™ is built-in, it automatically communicates its own meter data and reports it directly to your service provider, freeing up your time for other tasks.

- Data is protected with HTTPS secure protocol, the same highly reliable protection used for online banking.
- Monthly invoices are accurate and delivered on time, minimizing inaccurate or estimated billings.

The Ricoh embedded @Remote™ Intelligent Remote Management System is the fast, accurate solution for anyone with a cost per copy lease. Combined with its standard security features, embedded @Remote provides a secure and automated way to collect the meter data from your MFPs and will provide more productivity-enhancing benefits in the future.



(*)Models equipped with an Ethernet controller require LAN connection to the mainframe as well.
(*)Includes all configurations of the device (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z).

RICOH

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SECTION 15.1 RICOH AND THE ENVIRONMENT

Ricoh is committed to the environment and has an extensive webpage dedicated to that cause. The website link is shown below along with a screen of the actual site.

<http://www.ricoh.com/environment/>

It is recommended to visit this site to understand Ricoh's position on the global environment and how it relates to our manufacturing efforts both now and in the future.



SECTION 16.1 RICOH SUPPORT SERVICES

Technical Solutions Support

RICOH Technical Support services are available to all Pro C651EX / C751EX / C751 customers and can be reached during normal business hours at the number shown below.

For those customers who require extended technical support hours, RICOH is also available to assist during those non-standard times.

To obtain additional information on the extended support services, please contact your RICOH Production Print Specialist.


- Knowledge Base
- Product Manuals
- Contact Ricoh
- Developer Support
- Software Download

Support

The Ricoh Support Center puts product, software and service support right at your fingertips. Here you can find phone numbers, send emails and even find answers to your questions in our Knowledge Base.

[Product Advisory](#)
[—Ricoh Model LR-1](#)
[Personal Copier](#)


Knowledge Base



Ricoh's Technology Solution Center Provides answers to frequently asked questions about Ricoh Products. This area will also allow you to send email to Ricoh regarding product operation and software support.

[Ricoh Products](#)


Product Manuals



Most Ricoh product operation manuals are available for download in PDF format. These are the only manuals that are available for download.


[Download Ricoh Manuals](#)

Contact Ricoh



Easily find the phone numbers, web sites, email addresses of all Ricoh sales, services and support locations.

[Contact Ricoh Support](#)

 **FEEDBACK**

SUPPORT SERVICES

National Service Dispatch Center	(800) 432 - 9787 Option 1
Application Help Desk (<i>Software and Solutions</i>)	(888) 424 - 1573 option 3, option 1
RICOH's Production Printing Business Group Web Site	http://www.ricoh-usa.com/ppbg
Material Safety Data Sheets	(800) 336-MSDS (6737)

SECTION 16.2 RICOH PROFESSIONAL SERVICES

At RICOH, we know documents are essential for business. For your business to succeed, and to keep up, you need to deliver cost effective, high quality, secure document services. You must evolve as business needs and technologies change, while effectively reaching out to clients with new services and workflows-and rarely can you do this alone.

RICOH Production Printing is a trusted partner that listens and understands your unique needs in order to provide creative insights, deliver effective answers, and integrate new systems within your infrastructure.

Service Bureau - High Performance Reliable Solutions for Service Bureaus

Complex workflows, transpromotional campaigns, immediate document turnaround, advanced printer technologies-service bureaus face a long list of ongoing challenges and relentless competition to

provide clients with premier service and customized solutions. To be successful, you need differentiated solutions that will help your clients dominate the competition, save money, and boost profitability.

Enterprise - Helping Enterprise Data Centers Stay Competitive

The enterprise data center is where the company and customer relationship converge-driven by the creation, production, and delivery of mission-critical communications. Decisions are driven by tight budgets and having to do more with less. Expectations run high and enterprise data center professionals are expected to invest in the newest production printing solutions, while continually facing the threat of outsourcing.

RICOH Production Printing understands the many issues you face in producing premier customer-facing documents. That's why we offer a comprehensive set of software, hardware, and partner solutions that will help your operation meet the needs of this ever-changing market. Let us show you the many ways we can help your business grow and profit.

Graphic Arts Environments - Flexible, Innovative Solutions for the Graphic Arts Industry

Commercial printers face a variety of challenges that include commoditization of services, relentless price pressures and new competition from mergers and acquisitions.

The rules of the game are changing, and if you want to be an active player, it is important to have the products and solutions necessary to stay competitive. Ricoh Production Printing is ready to partner with you to assess your needs based on customer demands. We will help you develop solutions that deliver the functionality and flexibility your customers want, and the growth and profitability you need.

In-Plant Environment - Understanding Today's In-Plant Needs and Deliver Working Answers

Documents are essential for business. For companies, schools, and governments to succeed - and for in-plants to keep up-you need to deliver cost effective, high quality, secure document services. Plus, you must evolve as business needs and technologies change, while effectively reaching out to clients with new services and workflows-rarely can you do this alone.

In the rush to consistently meet tight deadlines, it's easy to miss emerging tools and techniques that could make your clients' documents more effective. RICOH Production Printing offers a wide range of print products and solutions to help you meet the demands for low cost, high quality production, while adding value that changes your department from a low-cost commodity provider to a valuable strategic corporate asset.

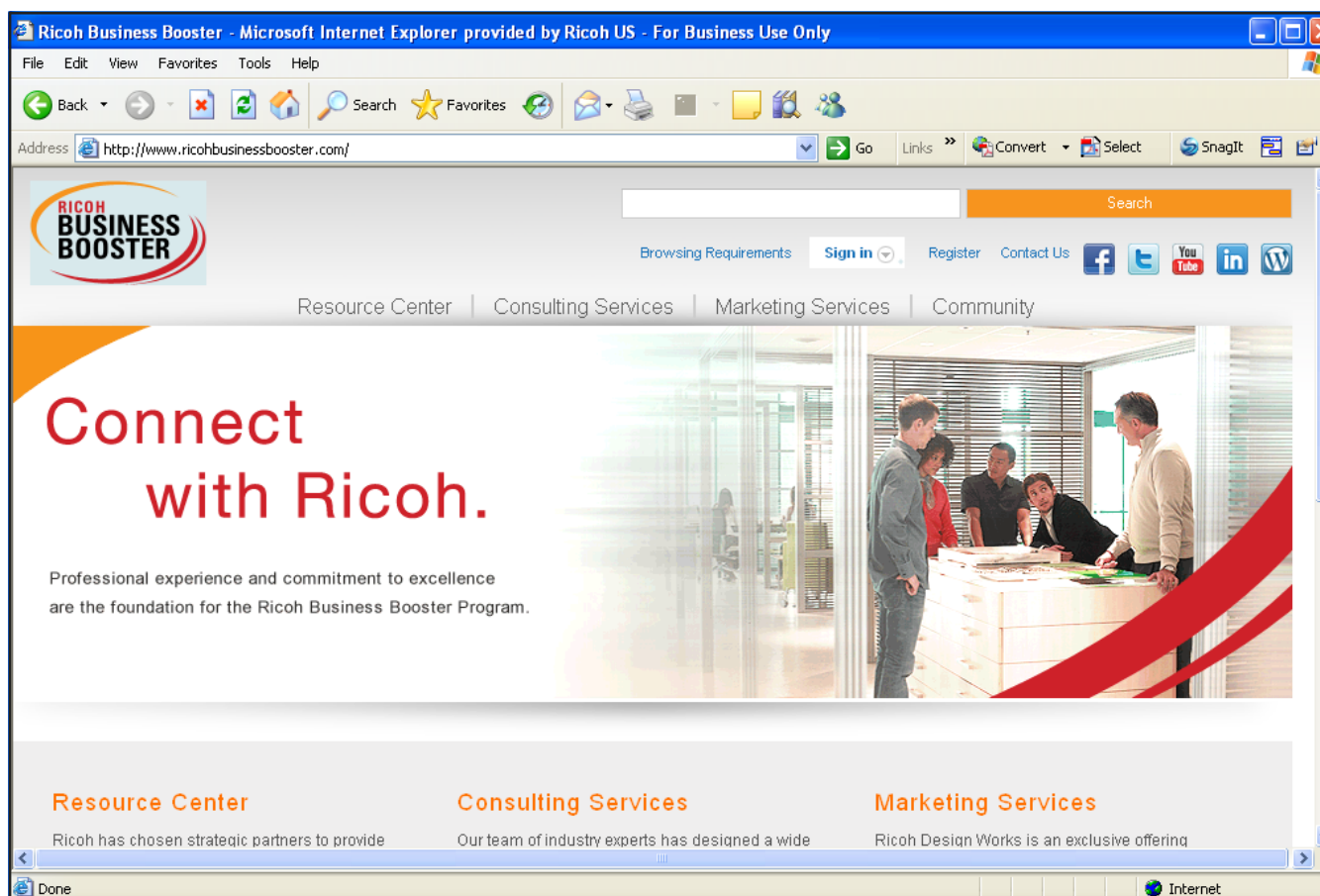
SECTION 16.3 **RICOH BUSINESS DEVELOPMENT SERVICES**

At Ricoh, we want you to succeed growing your print volume, while you continue to invest in evolving production solutions. and so you'll remain in business as loyal Ricoh customers for decades to come. This ever-growing site provides ideas, spreadsheets, presentations, videos, services and other tools to help you get the most out of your Ricoh investments in order to grow your business.

The materials in this site are only accessible by registered users. They are arranged by categories under three primary production segments: Data Centers, Graphic Arts and In-Plant production centers.

Upon completion of your installation of the Pro C651EX / C751EX / C751, your Ricoh Production Printing Solutions Engineer will register you for the site.

Below is a screen of the actual website. It is recommended to visit the site and explore the many ways which Ricoh can help your business grow.



SECTION 17.1 **END USER PRODUCT TRAINING FIERY WORKFLOW**

The following is a breakdown of the standard Pro C651EX / C751EX / C751 Product Training included with each machine placement. Following the product installation, the RICOH Production Print Solutions Engineer or Product Trainer will conduct the training at the machine location. The modules which will be covered will reflect those features configured during the product installation.

Each of these modules listed below is also documented in the form of a hard-copy printed tutorial. A checklist will also be completed onsite following the training. A sample of the Training Checklist is shown on the following pages.

Product Overview

- ☐ Pro C651EX / C751EX / C751 Machine Overview
- ☐ Introduction to the Fiery Print Controller
- ☐ Power Up/Down Sequence

Fiery and Print Job Management

- ☐ Getting Started with Command Workstation
- ☐ CWS Production Features
- ☐ Using Hot Folders
- ☐ Printing from Windows and OSX
- ☐ Using Virtual Printers
- ☐ Enabling PDF Printing Workflows
- ☐ Using Paper Catalog
- ☐ Backing Up using Fiery Clone Tool

Document Preparation

- ☐ Printing to JPEG Hot Folders
- ☐ Using Booklet Maker v4
- ☐ Using Booklet Maker for Perfect Bound Books
- ☐ Using SeeSequence Imposition
- ☐ Using SeeSequence Compose

Graphic Arts / Color Management

- ☐ Printing with Spot Colors
- ☐ Optimizing Color Quality
- ☐ Using Image Enhance
- ☐ Standard Color Calibration
- ☐ Printing the Altona Test Suite for PDF Compliance
- ☐ Printing the Ghent Test Suite for PDF Compliance

Variable Data Printing

- ☐ Using FreeForm for Letterhead
- ☐ Using VDP with Booklet Mode
- ☐ Using VDP for Postcards

Advanced Media and Color Management

- ☐ Advanced Color Calibration
- ☐ Media Management

EFI Color Profiler Suite

- ☐ Printer Profiling
- ☐ Monitor Profiling
- ☐ Profile Inspector / Editor
- ☐ Color Verifier / Verification Assistant

SECTION 17.1 **END USER PRODUCT TRAINING FIERY EDITION** *(CONTINUED)***Graphic Arts Premium Package**

- ☐ Imageviewer
- ☐ Preflight / Postflight
- ☐ Configurable Auto-Trapping
- ☐ Hot Folder GA Filters
- ☐ Control Bar Operations

User Documentation Review

- ☐ Fiery E-41A Welcome Guide
- ☐ Configuration Guide
- ☐ Printing Guide
- ☐ Utilities Guide
- ☐ Graphic Arts Guide
- ☐ Color Guide
- ☐ About this Machine
- ☐ General Settings Guide
- ☐ Network Guide
- ☐ Security Reference
- ☐ Paper Settings Guide
- ☐ TCRU Guide
- ☐ Scanner Reference
- ☐ Copy and Document Server Guide



Ricoh Americas Corporation
5 Dedrick Place
West Caldwell, NJ 07006

Production Color Training Checklist

Pro C901 GAE - Fiery Sys9r2

[Print Form](#)[Reset Form](#)

Submit by email to ProductionSurvey@ricoh-usa.com
Also provide to PPS to upload to salesforce.com

Date Complete:

Days / Hours On-Site

Company Name

Address

City State Zip

Student(s)

Email

Phone

Engine Type

Pro C901s GAE

Serial Number

Controller

Fiery E41

Serial Number

Attached Finishing Solutions:

- ☐ SR5000 100 Sheet Finisher ☐ Buffer Pass Unit Type 5000 ☐ GBC Stream Punch III
- ☐ SR5020 Booklet Finisher ☐ SK5010 Stacker ☐ RB5000 Ring Bind Unit
- ☐ BK5010e Plockmatic ☐ TR5010e Face Trim Unit ☐ GB5000 Perfect Bind Unit
- ☐ BF5010e Book Fold Unit ☐ CI5010 Cover Interposer ☐ ZF4000 Z Fold Unit

Completed
Yes No

Introduction & Overview:

- ☐ Machine Overview
☐ Intro to Fiery Controller
☐ Power Up / Down Sequence
- Print Job Submission & Management:**
- ☐ CWS 5 Workflow
☐ CWS 5 Production Features
☐ Using Hot Folders
☐ Printing from PS Driver
☐ Using Virtual Printers
☐ APPE / PDF Workflow
☐ Using Paper Catalog
☐ Fiery Clone Tool

Document Preparation:

- ☐ Printing to Jpeg Hot Folders
☐ Using Booklet Maker v4
☐ Using Booklet Maker / Perfect Bound
☐ Using SeeSequence Imposition
☐ Using SeeSequence Compose

Graphic Arts / Color Management:

- ☐ Printing with Spot Colors
☐ Optimizing Color Quality
☐ Using Image Enhance
☐ Standard Color Calibration
☐ Printing the Altona Test Suite
☐ Printing the Ghent Test Suite

Completed
Yes No

Variable Data Printing:

- ☐ Using FreeForm for Letterhead
☐ Using VDP with Booklet Mode
☐ Using VDP for Postcards

Advanced Media / Color Management:

- ☐ Advanced Color Calibration
☐ Media Management

EFI Color Profiler Suite:

- ☐ EFI Printer Profiling
☐ EFI Monitor Profiling
☐ EFI Profile Inspector
☐ EFI Profile Editor
☐ EFI Color Verifier
☐ EFI Verification Assistant

Graphic Arts Premium Suite:

- ☐ Image Viewer
☐ Preflight / Postflight
☐ Configurable Auto-Trapping
☐ Hot Folder GA Filters
☐ Control Bar

EFI User Documentation:

- ☐ E41 / E81 Welcome Guide
☐ E41 / E81 Configuration Guide
☐ E41 / E81 Printing Guide
☐ E41 / E81 Utilities Guide
☐ E41 / E81 Graphic Arts Guide
☐ E41 / E81 Color Guide

Completed
Yes No

Ricoh User Documentation:

- ☐ C901 About This Machine
☐ C901 General Settings
☐ C901 Network Guide
☐ C901 Security Reference
☐ C901 Paper Settings Guide
☐ C901 TCRU Guide
☐ C901 Scanner Reference
☐ C901 Copy / Document Server

Completed
Yes No

Service Items:

- ☐ @ Remote Installed / Configured
☐ TCRU Shared Maintenance
☐ TCRU Ricoh Maintenance
☐ Help Desk Call Procedures
☐ Service Call Procedures

Contact and Resources:

- ☐ Business Booster Registration
☐ Ricoh USA Website
☐ Appropriate Contact Numbers Provided

3rd Party Solutions:

- 1 ☐ ☐
- 2 ☐ ☐
- 3 ☐ ☐

Install
Notes

Form V1 - June, 2011

PPSE Name

PPSE Signature

Customer Name

Customer Signature

SECTION 18.1 RESPONSIBILITY WORKSHEET

These next two pages consist of a breakdown of the responsibilities for Ricoh's PPSE, the Ricoh Service Team and the customer. This worksheet is designed to be a reminder to manage a successful implementation of the RICOH Pro C651EX / C751EX / C751 into a customer site.

RICOH Production Printing Systems Engineer (PPSE)

- Introduce the customer to the RICOH Pro C651EX / C751EX / C751, various media handling options and color workflow components.
- Configure the printer to communicate with the customer's network.
- Design and implement workflow(s) for end users to submit print jobs to the printer.
- Train the end users on the RICOH Pro C651EX / C751EX / C751 operations and workflow components.
- Complete the RICOH Pro C651EX / C751EX / C751 Customer Expectations Guide (*this document*) or a Statement of Work (SOW) if additional software components are required.

RICOH Sales and Service Team

- Communicate the necessary power requirements to include all accessories which require an independent power source.
- Communicate power source placement, to include power sources for accessories.
- Remove the main unit from pallet if customer cannot provide a forklift and an operator. The Pro C651EX / C751EX / C751 requires a forklift to remove the unit from its shipping pallet.
- Communicate the weight and size of main unit and accessories.

SECTION 18.1 **RESPONSIBILITY WORKSHEET** *(CONTINUED)*

Customer

- Provide a **stable, level surface** that can support the main unit and accessories.
- Verify **adequate space is available** to allow main unit and accessories to be **delivered and moved to installation area**.
- Provide **proper power sources** for main unit and accessories.
- Verify the proper **position of power source** as to allow all units to plug directly into power source.
- Verify the installation area meets **environmental** specifications.
- **Provide network connections (*LAN drops, patch cables and TCP/IP Addresses*):**
 - One (1) network drop and cable is needed for the Fiery Local Area Network connection.
 - A second network connection is needed if the @Remote Service is utilized.
 - Each of the above network connections will require a **TCP/IP Address**.
(2) in Total.
- Provide **resources for network and printer configuration** to include:
 - Representation from IT (Internal Information Technology) or alike to install end user software on client workstations or print servers. End user software consists of printer drivers, utility and color management software.
 - If spare parts are to be kept on site to rebuild TCRUs, the parts should be store relative to the TCRUs.
- Provide media list containing commonly used substrates to be run through the C900 to provide a color and media management plan prior to delivery.
- If TCRU (*Trained Customer Replaceable Units*) are utilized: The customer site shall provide adequate space to store TCRUs. This storage space should meet the environmental specifications outlined in the Installation Requirements of the main unit.
 - The operator and/or the technician should have access to TCRUs during main unit operation hours.
 - If spare parts are to be kept on site to rebuild TCRUs, the parts should be store relative to the TCRUs.
 - If TCRUs are to be rebuilt at the customer location, the customer should provide a location and a work area away from the main unit to allow the technician to perform the rebuild of the TCRUs so as to not interfere with the operation of the main unit.

SECTION 18.2 PRO C651EX / C751EX / C751 PRE-INSTALLATION CHECKLIST

Please complete this checklist to verify the site requirements are met for the Pro C651EX / C751EX / C751 delivery, installation and training to occur. Reference the appropriate page number for detailed information on each line item.

YES	NO	ITEM TO REVIEW	PAGE #
<input type="checkbox"/>	<input type="checkbox"/>	Machine Specifications	20
<input type="checkbox"/>	<input type="checkbox"/>	Operating Environmental Conditions	51
<input type="checkbox"/>	<input type="checkbox"/>	Proper power supplied	50
<input type="checkbox"/>	<input type="checkbox"/>	Accessory Power Sources available within specification and distance.	50
<input type="checkbox"/>	<input type="checkbox"/>	Power cord(s) can plug directly into power receptacles) with no extension cords or power strips	50
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) live Ethernet network drops and two (2) RJ-45 patch cables are available at the location of the print engine: <ul style="list-style-type: none"> <input type="checkbox"/> One (1) for Local Area Network Connectivity <input type="checkbox"/> One (1) for RICOH's @Remote Service OR C651EX / C751EX Scanning Functionality 	26/32
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) TCP/IP Addresses will be available to connect the Pro C651EX / C751EX / C751 into the Local Area Network.	26/32
<input type="checkbox"/>	<input type="checkbox"/>	The Network or LAN Administrator will be present during the installation	N/A
<input type="checkbox"/>	<input type="checkbox"/>	A Client Workstation will be available to install printer drivers, utilities and color management software.	N/A
<input type="checkbox"/>	<input type="checkbox"/>	A media or substrate listing is provided containing commonly used stocks for the C651EX / C751EX / C751.	N/A
<input type="checkbox"/>	<input type="checkbox"/>	The Key Operators will be available for product training when scheduled.	N/A
<input type="checkbox"/>	<input type="checkbox"/>	A Forklift and Operator are available onsite to remove the main frame print engine from its shipping pallet.	56/57
<input type="checkbox"/>	<input type="checkbox"/>	The main unit will need to be removed from pallet prior to shipping unit to the customer site.	56/57
<input type="checkbox"/>	<input type="checkbox"/>	The Floor Surface will support the RICOH Pro C651EX / C751EX / C751 Mainframe and its accessories.	20
<input type="checkbox"/>	<input type="checkbox"/>	A Loading Dock is available at the customer site.	56/57
<input type="checkbox"/>	<input type="checkbox"/>	The doorways and passageways are at least 1100mm (43.3") wide for delivery.	52/53
<input type="checkbox"/>	<input type="checkbox"/>	Minimum Space and Clearance requirements are met around all four sides when the main frame and accessories are installed.	52-53
<input type="checkbox"/>	<input type="checkbox"/>	A RICOH Service Technician is required during delivery.	56-57

SECTION 18.3 PRO C651EX / C751EX / C751 OPTIONS CHECKLIST

Please complete this checklist to verify the optional components selected for the Pro C651EX / C751EX / C751. This will help to configure the system, highlight the site requirements, and verify the compatibility within the system.

Included	Item	Item #	Page #	Notes / Comments
	Pro C651EX Main Unit	404447	8/9	
	Pro C751EX Main Unit	404448	8/9	
	Pro C751 Main Unit	404385	8/9	
	LCIT RT5060	404388	38	
	Multi-Bypass Tray BY5010	404387	38	
	DLT / A3 Tray Kit TK5010	404195	38	
	Multi-Folding Unit FD5010	404390	45	
	Cover Interposer Tray CI5020	404389	43	
	Ring Binder Unit RB5010	404392	43	
	High Capacity Stacker SK5020	404394	44	
	Stapler Finisher SR5030	404396	40	
	Booklet Finisher SR5040	404398	40	
	Punch Unit PU5020	404177	41	
	Booklet Trimmer TR5040	404400	42	
	Buffer Pass Unit Type 5010	404402	44	
	Decurler Unit DU5010	404404	n/a	
	TCRU/ORU Set A	404440	57	
	TCRU/ORU Set B	404442	57	
	Counter Interface Unit Type A	413012	n/a	
	Plockmatic Booklet Maker BK5030	404453	n/a	
	VM Card Type R	404407	n/a	
	Color Fiery Controller E-41A	404405	18	
	Roll Away Cart	404218	44	
	Total Flow Color Bundle	006876MIU	37	
	Total Flow Advanced Color Bundle	006877MIU	37	
	Total Flow Advanced Plus Color Bundle	006878MIU	37	

SECTION 18.4 **PRODUCT IMPLEMENTATION AND TIMELINES**

The following information provides a relative timeline for the Pro C651EX / C751EX / C751 implementation and what to expect from Ricoh.

Following the equipment order, Day One would consist of delivery, machine assembly and connecting it into the customer's network. Day Two would consist of installing print drivers on workstations and/or servers, building Hot Folders, virtual printers and workflow based on pre-sales discussions with your local Production Print Solutions Engineer. Following the implementation, End User Training will begin.

Each installation will vary in timelines based on local resources and customer availability. This worksheet can be used to document all contacts involved with the project to maintain communications during the process.

Below you will find a table where to enter the names of the appropriate contacts, their roles and contact information.

NAME	REPRESENTING	EMAIL ADDRESS	PHONE #

SECTION 18.5 SIGN-OFF WORKSHEET

Signatures - Verifies that this document was reviewed and this checklist was communicated between the RICOH PPS, the RICOH PPSE and the customer contact(s).

Customer	<i>Customer Contact (printed)</i>
	<i>Title (Printed)</i>
	<i>Signature, Customer Contact</i>
	<i>Date</i>

RICOH - Production Printing	<i>RICOH Production Print Solutions Engineer (printed)</i>
	<i>Title (Printed)</i>
	RICOH Production Print Solutions Engineer (PPSE)
	<i>Signature, RICOH PPSE</i>
	<i>Date</i>

RICOH - Production Printing	<i>RICOH Service Manager (printed)</i>
	<i>Title (printed)</i>
	RICOH Service Representative
	<i>Signature, RICOH Service Manager</i>
	<i>Date</i>

Notes	
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SECTION 18.6 **NOTES**

Please use this space provided to include and notes, follow up items, test files, etc. to communicate with your Ricoh Production Print Solutions Engineer or Production Print Specialist.

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THINK PRODUCTION. THINK RICOH.
RICOH