

CS 500ci vs. the Competition | Konica Minolta • Ricoh • Sharp

The **Copystar CS 500ci** offers an industry-leading preventive maintenance schedule of an astounding **300,000 pages** for both B&W and color, and utilizes Amorphous Silicon (ASi) drums, also rated for **300,000 pages**.

In the table to the right, a scenario is formulated for a busy office environment that outputs 15,000 pages per month. In this case, a single preventive maintenance call would be required in the 20th month of a 36 month acquisition. At this time the two individual maintenance kits (K/CMY) with all of the necessary items for service would be replaced. This greatly reduces scheduled downtime for the customer over the life of the product.

CS 500ci		50 PPM Black • 40 PPM Color											
Year 1	1	2	3	4	5	6	7	8	9	10	11	12	
Year 2	13	14	15	16	17	18	19	20	21	22	23	24	
Year 3	25	26	27	28	29	30	31	32	33	34	35	36	

CS 500ci Maintenance and Consumable Facts:

- PM Schedule: 300,000 Pages (individually rated for color and b&w)
- Drums: Amorphous Silicon (ASi)
- Drum Yield: 300,000 Pages
- Black Toner Yield: 25,000 Pages
- CMY Toner Yield: 18,000 Pages
- Maintenance Kits: 300,000 Pages (K/CMY)

Konica Minolta: The bizhub C451 Color MFP has no set preventive maintenance interval, however the Imaging Units (IU) (which combine the drums and developers) of the device need to be replaced at 100,000 pages for the CMY components and at 300,000 pages for the black components. In addition, the fuser unit must be replaced at 300,000 impressions. Since these components all are required at different intervals, a maintenance call during these periods could vary in length, depending on what is being replaced. For instance, in the 7th and 14th month, three IUs are replaced; and then in month 20, the CMY IUs are replaced for the third time, as well as the black IU and a fuser unit. In the 15,000 pages/month scenario, the bizhub C451 would require a minimum of five (5) service calls, resulting in more downtime for the customer.

Konica Minolta bizhub C451		45 PPM Black • 45 PPM Color											
Year 1	1	2	3	4	5	6	7	8	9	10	11	12	
Year 2	13	14	15	16	17	18	19	20	21	22	23	24	
Year 3	25	26	27	28	29	30	31	32	33	34	35	36	

bizhub C451 Maintenance and Consumable Facts:

- PM Schedule: None Set*
- Drums: Imaging Unit (IU)
- Black Imaging Unit Yield: 300,000 Pages
- CMY Imaging Unit Yield: 100,000 Pages
- Fuser Unit Yield: 300,000 Pages
- Black Toner Yield: 45,000 Pages
- CMY Toner Yield: 27,000 Pages

Ricoh: In this analysis, the Ricoh Aficio MP C5000 Color MFP, incorporates Organic Photoconductor (OPC) type imaging drums rated for 80,000 pages, corresponding to Ricoh's frequent preventive maintenance schedule. Ricoh also requires/recommends that the fuser rollers for the Aficio be replaced at 160,000 pages, which can increase the amount of time to service the MFP at every other call. At 15,000 pages per month, the customer with the Ricoh MFP would experience a total of six (6) required maintenance periods, at least two per year during the three year period. This could be intrusive if the company in question has peak periods of activity and relies heavily on the MFP as their primary means to output documents.

Ricoh Aficio MP C5000		50 PPM Black • 50 PPM Color											
Year 1	1	2	3	4	5	6	7	8	9	10	11	12	
Year 2	13	14	15	16	17	18	19	20	21	22	23	24	
Year 3	25	26	27	28	29	30	31	32	33	34	35	36	

Aficio MP C5000 Maintenance and Consumable Facts:

- PM Schedule: 80,000 Pages
- Drums: Organic Photoconductor (OPC)
- Drum Yields: 80,000 Pages
- Black Toner Yield: 23,000 Pages
- CMY Toner Yield: 17,000 Pages
- Fuser Roller Yield: 160,000 Pages

Sharp: The MX-4501N Color MFP from Sharp has a preventive maintenance interval of 150,000 pages, half of the CS 500ci. This 150,000 page mark is also the time when the black imaging drum needs replacement, as well as maintenance items such as charger units, fuser rollers and cleaning blades. These intervals are represented on the table as month 10, 20 and 30. The additional shaded areas in the table correspond to the maintenance intervals when the CMY color drums will need to be replaced, since they are only rated for 100,000 images each. This staggered approach to replacing drums and the set PM schedule increases the number of required calls for the MX-4501N to seven (7) over a 36 month period, imaging 15,000 pages per month.

Sharp MX-4501N		45 PPM Black • 35 PPM Color											
Year 1	1	2	3	4	5	6	7	8	9	10	11	12	
Year 2	13	14	15	16	17	18	19	20	21	22	23	24	
Year 3	25	26	27	28	29	30	31	32	33	34	35	36	

Sharp MX-4501N Maintenance and Consumable Facts:

- PM Schedule: 150,000 Pages
- Drums: Organic Photoconductor (OPC)
- Black Drum Yields: 150,000 Pages
- CMY Drum Yields: 100,000 Pages
- Black Toner Yield: 36,000 Pages
- CMY Toner Yield: 15,000 Pages
- Fuser Kit Yield: 300,000 Pages
- Maintenance Kits: 150,000/300,000 Pages

Analysis based on 15,000 pages per month average over 36 months.

* 'None Set' denotes that there is no specific interval specified and that all preventive maintenance components have to be replaced. The yields on all maintenance items vary per device.

This information for this Competitive Edge was gathered from several sources, which Kyocera Mita America deems reliable and to the best of its knowledge are accurate; however, Kyocera Mita America shall not be responsible for inaccuracies. Product specifications may change without notice. Required maintenance calls outlined in the competitive tables may include the replacement of drums and/or imaging units, as well as the recommended preventive maintenance schedules each manufacturer specifies. This Competitive Edge is for the sole information of Copystar dealers. It is not to be reprinted or used by any other party without the prior written consent of Kyocera Mita America. Trade names or trademarks used to identify products are owned or controlled by their respective companies.

CS 500ci vs. the Competition | Canon • Toshiba • Xerox

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In the table to the right, a scenario is formulated for a busy office environment that outputs 15,000 pages per month. In this case, a single preventive maintenance call would be required in the 20th month of a 36 month acquisition. At this time the two individual maintenance kits (K/CMY) with all of the necessary items for service would be replaced. This greatly reduces scheduled downtime for the customer over the life of the product.

CS 500ci					50 PPM Black • 40 PPM Color							
Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Year 2	13	14	15	16	17	18	19	20	21	22	23	24
Year 3	25	26	27	28	29	30	31	32	33	34	35	36

CS 500ci Maintenance and Consumable Facts:

- PM Schedule: 300,000 Pages (individually rated for color and b&w)
- Drums: Amorphous Silicon (ASi)
- Drum Yield: 300,000 Pages
- Black Toner Yield: 25,000 Pages
- CMY Toner Yield: 18,000 Pages
- Maintenance Kits: 300,000 Pages (K/CMY)

Canon: Canon, who utilizes Amorphous Silicon drums on their imageRUNNER B&W MFPS, uses OPC type drums in their color MFPS, with a rating of 70,000 pages on each (CMYK). These drum units include the developer required for replacement at 70,000 pages as well. Like the Sharp model, the imageRUNNER C4580/C4580i will generate seven (7) required maintenance calls over a 36 month period in a business environment that is imaging an average of 15,000 pages per month, compared to the CS 500ci, which would need one required call based on its long-life component strategy.

Canon imageRUNNER C4580/C4580i					45 PPM Black • 36 PPM Color							
Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Year 2	13	14	15	16	17	18	19	20	21	22	23	24
Year 3	25	26	27	28	29	30	31	32	33	34	35	36

imageRUNNER C4580/C4580i Maintenance and Consumable Facts:

- PM Schedule: Information Not Available
- Drums: Organic Photoconductor (OPC)
- Drum Yield: 70,000 Pages
- Black Toner Yield: 26,000 Pages
- CMY Toner Yield: 30,000 Pages
- Fuser Unit Yield: Information Not Available

Toshiba: Toshiba is another manufacturer with a PM interval required at 70,000 pages, approximately 1/4 the schedule of the CS 500ci. Utilizing OPC drums rated for 70,000 pages each, these units would need to be replaced seven (7) times over the course of three years in an environment running 15,000 pages a month. Fuser rollers are replaced at every other preventive maintenance cycle, so in months 10, 19, and 28, the service call could be slightly longer than the calls to replace the drums.

Toshiba e-STUDIO4520c					45 PPM Black • 45 PPM Color							
Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Year 2	13	14	15	16	17	18	19	20	21	22	23	24
Year 3	25	26	27	28	29	30	31	32	33	34	35	36

e-STUDIO4520c Maintenance and Consumable Facts:

- PM Schedule: 70,000 Pages
- Drums: Organic Photoconductor (OPC)
- Drum Yield: 70,000 Pages
- Black Toner Yield: 29,000 Pages
- CMY Toner Yield: 24,000 Pages
- Fuser Unit Yield: 140,000 Pages

Xerox: The WorkCentre 7346 by Xerox provides an interesting analysis when comparing preventive maintenance and drum replacements. The WorkCentre 7346 utilizes a "cartridge-type" drum, which Xerox positions as "customer-replaceable". These drum units last for 26,000 pages, well below the drum or imaging units of every manufacturer in this analysis. At 26,000 pages, in our scenario of 15,000 pages per month, the Xerox WorkCentre would need an incredible 20 drum replacements, either by a Xerox service technician, or the customer themselves. So an interesting discussion can be posed; if a customer is paying for a maintenance contract, should they be compelled to complete the service action of replacing major components; and does your customer really want to frequently change drum units with astounding regularity?

Xerox WorkCentre 7346					45 PPM Black • 40 PPM Color							
Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Year 2	13	14	15	16	17	18	19	20	21	22	23	24
Year 3	25	26	27	28	29	30	31	32	33	34	35	36

WorkCentre 7346 Maintenance and Consumable Facts:

- PM Schedule: None Set*
- Drums: Cartridge-Type
- Drum Yield: 26,000 Pages
- Black Toner Yield: 26,000 Pages
- CMY Toner Yield: 16,000 Pages
- Fuser Unit Yield: 150,000 Pages

Analysis based on 15,000 pages per month average over 36 months.

*None Set denotes that there is no specific interval specified and that all preventive maintenance components have to be replaced. The yields on all maintenance items vary per device.

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