

Updated 01/11/15 for the new 2016 model

Coin Sorter CS209 Guide

An electronic version of this document can be downloaded from the CS209 product page at www.shopstuff.co.uk

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CS209 Coin Sorter

The coin sorter everyone has been waiting for!

Fast mixed coin sorter capable of counting, sorting and batching up to 450+ coins per minute. With steel sorting disk suitable for everyday use.

In 2007 we had the first prototype of this coin sorter but were not happy with some aspects of the internal workings so after three different prototypes and exclusive internal design changes completed solely for Shopstuff Ltd we are now able to make this machine available for the UK market.

So that you know you are buying a true Shopstuff CS209 coin sorter either from shopstuff or one of our authorised agents, ask your supplier the following.

1. Does the coin sorter being supplied have a blue keyboard and not a white or silver one, the blue keyboard signifies the latest UK software and version 3 LCD display with increased fuse capacity.
2. Does the coin sorter being supplied when first switched on come up with GBP on the display, this is another indicator of the latest UK software.
3. Does the coin sorter being supplied have an internal memory allowing you to open the top cover and the coin count to be retained on the display.
4. Does the machine being supplied have a non-reset memory allowing the operator to see total amount of coins counted for a given period. Allowing the operator to check warranty conditions.
5. Does the CS209 being offered have white coin pots and not white.
6. Does the CS209 have an off white thumb screw on the top of the sorting disk and does not have screws around the outer edge.

If your supplier can not answer Yes to all six of these questions you are probably not buying a genuine Shopstuff Ltd designed and tested machine. If unsure please phone us on 08456 44 2210 where we will be able to confirm if the company you are purchasing from is approved by us.

The CS209 is **NOT** suitable for any foreign, commemorative, damaged coins. Putting these types of coins into the machine may cause damage and therefore invalidate any warranty claim. If you believe it is possible that foreign coins may be put into the sorter, it would be worth considering a coin sorter with coin verification such as the CS730.

If you are unsure if this coin sorter is suitable please phone us - we will be happy to discuss your requirements and suitability in detail.

We also offer a hire before you buy scheme, this allows you to hire the machine for a period of time to find out if the coin sorter is suitable for your requirements, if not the machine is simply returned and the cost of the hire stands, if the machine is suitable then the hire machine is returned and the charge for the hire taken from the cost of the new machine.

To assist you further we have included in this document the test results, warranty information and full instructions on the use of the machine, again we strongly recommend this is read before committing to purchase.

Searching www.youtube.com for CS209 coin sorter will also bring up a basic video showing the machine in operation and how to spot a genuine CS209 coin sorter.

CS209 Coin Sorter Warranty Information

We offer the CS209 coin sorter and counter with a 300,000 coin or twelve month warranty (whichever comes first) with an expected average monthly usage of up to 25,000 coins.

The warranty is offered on a fair usage policy meaning we would not expect to receive a CS209 back that has counted 100,000 coins after just one month of ownership; however, we allow a 10% per calendar month over usage without affecting your warranty to account for seasonal fluctuations in usage up to the warranty limit. We have this in place to insure that customers have selected the correct machine for their requirement and that a machine with a higher capacity or with coin verification and off sort would not better suit your needs. Please phone us on 08456 44 22 10 if you are unsure on the correct machine to purchase.

What your warranty covers:-

Labour, parts & UK mainland delivery back to you

What's not covered:-

- Warranty claims caused by customer not following the CS209 cleaning requirements. Machines returned that simply need cleaning or a coin jam cleared will incur a £25+vat charge + carriage back.
- Coin Jams and damage caused by damaged sterling or foreign coins.
- Exceeding your monthly fair usage by 10% from point of purchase.
- Consumable plastic, foam and rubber spinning disk, which should be replaced at very minimum every 100000 coins counted. Press 0 & 9 together to view current total.
- Cost of sending the machine back to us however we cover the basic cost of returning the machine to you after an approved repair (Over water and highlands return fees incur a small additional charge.

We will endeavour to inspect and if necessary repair and send back any returned machines to the address or the returns form within 11 working days of receiving it.

To return a machine simply contact us by e-mail - a returns form will be sent to you by return, simply fill this in and return with the machine to us for repair.

Test Results for Coin Sorter CS209 carried out 01/10/2015 by CR.

Reason for testing: To test and find any weakness present in new 2016 model CS209 coin sorter with the new modification design and implemented exclusively for us.

Test coins: UK sterling pre-checked for damaged or foreign coins.

592 coins in total each count completed over a 3 hour period, testing to be completed over 20 batch runs with total coins counted **11840** coins in a three hour period.

Count Number	Auto Jams Cleared	Auto Jams Not cleared	Count 100% Correct	Count error
1	0	0	Y	
2	1	0	Y	
3	0	0	Y	
4	0	0	Y	
5	0	0	Y	
6	0	0	Y	
7	0	0	Y	
8	0	0	Y	
9	0	0	Y	
10	1	0	N	1 x 10p over
11	0	0	Y	
12	0	0	Y	
13	0	0	N	1 x 2p coin over
14	0	0	Y	
15	0	0	Y	
16	0	0	Y	
17	1	0	Y	
18	0	0	Y	
19	0	0	Y	
20	0	0	Y	
Total coins counted 11840	3	0	18/20	Total 2

Total coins counted 11840 with a total of 2 coins missed or not counted, a rate of just 0.02%.

Recommended fair usage to equal counts of 6,000 coins per week (25,000 per month or 300,000 per calendar year).

Speed Test

Manufacturer claims 600 coins per minute; we tested over a 30 second period with a preloaded machine of full UK sterling mixed coin type. Running the same speed test 10 times. We averaged over these test a count speed of 450 coins per minute. This could be increased to 600 coins with ease if all UK coins were of equal thickness and shape, Euro version of this machine with different sorting place runs at 530+ coins for this sole reason.

Wear and Tear

After testing the machine was dismantled to inspect for any premature ware, none was found however it would be prudent to explain in the instructions as to how the customer should maintain the machine to prolong life and optimal performance. I would also recommend that the foam/plastic internal spinning disk be seen as a consumable and should be replaced after approximately 100000 coins counted to ensure consistency of counting.

Test result Mis-counts.

As with any coin sorter, regardless of cost, miss-counts and jams are always going to occur due to the thickness and shape of UK sterling coins. In our test the CS209 miscounted just 2 coins out of 11840, we noted that the coins miss-counted were all of the larger type coins. We then discovered that when we reduced the amount of 2p's being counted from 80 to the standard UK bank bag of 50 we could not replicate the problem, this has led us to believe that the larger coins stack differently in the pots causing a larger pile to develop quicker and therefore the possibility of a coin "bouncing" back up off the top of a large pile and into the path of the count sensor causing to mis-read an extra coin. Care should be taken that batch quantities are not set to high for large diameter coins.

Conclusion.

A well design and constructed coin sorter and batcher that will fit well into the market place as there is nothing currently available with this speed and robustness and clearly in some cases match performance and suitability of the considerably more expensive CS730.

This machine should in no way be compared to the CS205 which is purely designed for light use. The features of the bonnet clearing system alone put it head and shoulders above this machine. Based on construction and design and market positioning I would recommend a competitive price to be circa £600.00 + vat.

As with any coin sorter regardless of price, mis-sorts and batching mistakes are always possible and I would also recommend that a customer purchases either a [Safescan 6155](#) or [Omal Count Easy](#) to accompany the coin sorter as this would further speed up banking and this would instantly spot any occasional miss-sorts before being put forward for banking as shown in the test results.

I would recommend the CS209 to be suitable for clients counting up to 25000 coins per month in smaller daily batches of around 1000 coins.

Instructions.



Specification

Ambient Temperature -0°C - 40°C
Ambient Humidity- 30 - 80%
Hopper Capacity - 900 Coins Max
Individual Tray capacity 1 - 100 coins
Batch Preset -3 Digits LCD
Counting Number Display -7 Digits LCD
Power Source –AC220V/50HZ or AC110V/60HZ
Power Consumption-50W Maximum
Dimensions-330mm x 330mm x 255mm
Net Weight - 4.6KG
Counting Speed-450+ Coins per Minute

Key Features

Counts up to 450 coins per minute
Hopper Capacity approx 900 coins
8 denomination coin trays with a maximum capacity of 100 coins per tray
(Dependent on denomination size)
Can count and save up to 4 counts—4 memories
Batch set facility—set the machine to stop each time a denomination reaches
its maximum bank standard bag limit—i.e. 20 x £1 or 50 x 2p
Machine opens up for easy maintenance and access to cleaning
Not suitable for foreign objects, coins or damaged currency
LCD display with full count information on one screen—no need to toggle
through settings
Warranty 12 months or 300,000 coins dependent on which comes first.

4. Batching

To set up batch mode firstly press the “SET” key. Then press the relevant number from 1-8—each number represents a denomination 1 is equal to 5ps 2 is equal to 1ps and so on in coin size order £2 being number 8. Then to preset the denomination 1-8 you wish to batch—key in the number you wish the machine to stop at IE 20 x £1.00 or 20 denomination number 4. Press the “SET” key to store the batch setting and then repeat above if you want to set the batching for another coin or press “START” to begin your count. If batching is not required then set each batch number to the maximum capacity for each tray as shown below, this will stop any overfilling of the pots and possible miss-sorts and damage to the machine.



Tray Number	1	2	3	4	5	6	7	8
Denomination	5p	1p	20p	£1	10p	2p	50p	£2
Maximum ideal capacity in each tray	100	100	50	50	50	50	30	30

ABOVE IS THE RECCOMENDED MAXIMUM AMOUNT OF COINAGE WHICH WILL FIT INTO EACH TRAY – DO NOT OVERFILL THE TRAYS AS THIS COULD DAMAGE THE MACHINE OR CAUSE OVER MIS-COUNTS

5. Memories

To memorize a count either during a count or after a count press the “SAVE” key and then 1, 2, 3 or 4 (each number representing a memory)

To view a saved count press the “SAVE” key once more then press number 5, 6, 7 or 8 to view the saved count or counts.

Pressing “5” brings up count number 1, “6” brings up count number 2, pressing number “7” will bring up saved count number 3 and pressing “8” will recall count number 4.

Your machine will now have sorted and counted each denomination into each tray.

Your full count details will be displayed on the LCD display for you to record.

6. Error diagnosing

To optimize performance and avoid invalidating your warranty only sterling coins should be entered into the hopper – and care should be taken not to enter any other foreign object or foreign coin into the machine.

THIS MACHINE WILL ONLY COUNT STERLING COINS!

When counting if the letter “E” appears on the left hand side of the LCD display and a loud buzzing sound occurs, there is machine error — this is usually caused by damaged or foreign coins or objects other than coins jamming the machine that may have entered the machine mixed with the coins.

1. Firstly try pressing the “START” button twice so as the machine can reverse and try to dislodge any jammed coins.
 2. If this does not work for you, Un-plug the machine from the wall, and make sure that ALL coins have been removed from the top hopper.
 3. Open the machine by pressing the small grey square button on the front of the machine and check for any jammed coins or possible foreign objects such as a paperclip or even excessive dirt on the round black disc.
 4. Close the machine and power back up. The machine will reset itself and clear the jam. If this procedure does not clear the jam then you may have to remove the internal centre disk, instructions on how to do this can be found in the maintenance & cleaning instructions.
- It is strongly recommended that the count is re-started as coins may have been forced into the wrong collection pots when the machine has tried to clear itself.

Sometimes coins will form a “BRIDGE” across the hopper causing the coins to stop feeding. If this happens simply move some coins in the hopper this will cause the coins to resettle and counted will automatically start feeding again.

Please note that failure to operate the machine in the way advised within these instructions may invalidate your warranty and costs may be issued for repairs carried out on a returned machine due to operator use and not following the instructions carefully. Do not over fill coin trays otherwise this may damage the machine.



Coin Sorter CS209 Routine Maintenance

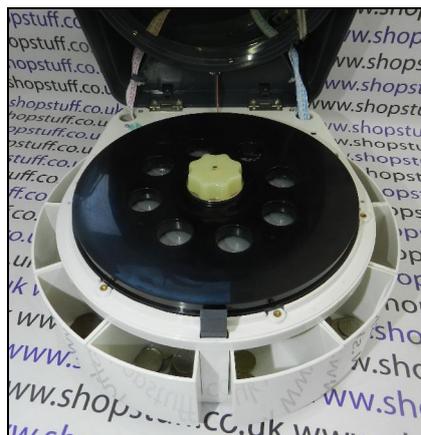
All coin counting and sorting machines need routine cleaning due to deposits and dirt brought in to the machine by the coins it is counting. You only have to look at your hands after handling coins to realise how dirty coins actually are.

We recommend that basic cleaning is carried out after each use and full cleaning procedure is carried out approximately every 20,000 coins counted.

This procedure also explains how to clear jammed coins that will not auto clear.

Basic Maintenance

1. Use anti static foam cleaner to clean down outer cases.
2. Open top lid and using paint brush out of machine coin dirt.



3. Check there are no coins left inside machine.

Full Maintenance and manually clearing a coin jam.

1. Complete basic maintenance.
2. Open lid and remove consumable sorting disk by removing the centre thumb screw.



3. Brush metal sorting disk and gently vacuum foam underside of plastic disk, checking for holes or damage to the underside of the disc at the same time.



4. Gently brush all LED count sensors.



Clean out coin collecting pots with anti-static foam cleaner.

Never put any type of oil into the machine as the dirt will stick to the oil and cause friction damage.

All maintenance must be carried out with the machine switched off and unplugged from the wall.

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