

Successfully tested type of banknote handling machines**Staff-operated machines****Last updated: 2024/12/27**

Identification number of the machine	Machine name	Machine category	Identification (hardware/software version)	Contact details of manufacturer	Machine process the following denominations of euro banknotes	Date of test	Machine equipped with fitness sorting capacity	Version of the test deck used in the test
1020000137187 102000137198	D6 D5	BAM	1.0.1.x	Grupo Sallen Tech, S.L. Calle Lérida, 68 22500 Binéfar, Huesca Spain www.sallen.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/02/08	No	62
1020000157887	DF4	BAM	1.1.1.x	Grupo Sallen Tech, S.L. Calle Lérida, 68 22500 Binéfar, Huesca Spain www.sallen.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/02/08	No	62
102000100856	Obolus Electrum	BAM	DSP 2.2.0.X	Grupo Sallen Tech, S.L. Calle Lérida, 68 22500 Binéfar, Huesca Spain www.sallen.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/02/08	No	62

Identification number of the machine	Machine name	Machine category	Identification (hardware/software version)	Contact details of manufacturer	Machine process the following denominations of euro banknotes	Date of test	Machine equipped with fitness sorting capacity	Version of the test deck used in the test
102000137176	Obolus Electrum	BAM	DSP 2.2.1.X	Grupo Sallen Tech, S.L. Calle Lérida, 68 22500 Binéfar, Huesca Spain www.sallen.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/02/08	No	62
101000192402	CPS 1800	BPM	General: CPS 7.6.55-U 05/10/10 Authentication: VME 7.0.0-p7 DATE: JAN-28 -2008 Fitness: CONF 7.0.3 IDS1, IDS2: 6.15170000 IDS SHAPE: 6.15170000003	Cash Processing Solutions, S.L.U. Av. General Perón, 3, 3º, 28020 Madrid Spain www.cashprocessingsolutions.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/02/21	Yes	61
102000193858	b9200	BAM	C-26-2	Protección Documental, S.L. Calle José Sánchez Pescador, 3 Local 28007 Madrid España www.beeplo.eu	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/03/13	No	62
103000196453	CM18 Da Vinci	TARM	Detector: RS22 SW: HJ8C EUN032.19	ARCA TECHNOLOGIES S.r.L. UNIPERSONALE Corso Vercelli, 322 Ivrea 10015 Italy www.arca.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	06/05/2024	Yes	62

Identification number of the machine	Machine name	Machine category	Identification (hardware/software version)	Contact details of manufacturer	Machine process the following denominations of euro banknotes	Date of test	Machine equipped with fitness sorting capacity	Version of the test deck used in the test
103000196486 103000196497	CM18 Da Vinci CM 18 Da VinciT	TARM	Detector: RS32 SW: ZF08 EUF13.02	ARCA TECHNOLOGIES S.r.L. UNIPERSONALE Corso Vercelli, 322 Ivrea 10015 Italy www.arca.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	06/05/2024	Yes	62
103000196501	CM18 Da Vinci	TARM	Detector: RS32 SW: ZG08 EUF12.02	ARCA TECHNOLOGIES S.r.L. UNIPERSONALE Corso Vercelli, 322 Ivrea 10015 Italy www.arca.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	06/05/2024	Yes	62
102000197271	SH-08V	BAM	Main: 20240312A Image: 3.0 A8611253	Nanjing Numenmatic Tech CO., LTD 606#, JiuZhou B Building, KunYang Town, PingYang country, Wenzhou City 325400China	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/06/11	No	62
103000186747	THR 150	TARM	Hart-CPU-Key-40F-26Y	Hart Monetic, S.A. Avda. Camino de lo Cortao, 34 San Sebastián de los Reyes 28700 Madrid Spain www.hartmonetic.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/06/03	Yes	62

Identification number of the machine	Machine name	Machine category	Identification (hardware/software version)	Contact details of manufacturer	Machine process the following denominations of euro banknotes	Date of test	Machine equipped with fitness sorting capacity	Version of the test deck used in the test
103000197329	THR 150	TARM	Hart-CPU-Key 40F-26Z	Hart Automation, S.L. Avda. Camino de lo Cortao, 34 San Sebastián de los Reyes 28700 Madrid Spain www.cashphenix.com	ES1 5€ ES1 10€ ES1 20€ ES1 50€ ES1 200€ ES1 500€ ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/06/05	Yes	62
103000197294	Cashphenix THR 250	TARM	Librería: EUR_030624_U2 FW: 16b_6a1.2 SW: 8V03.3.11	Hart Automation, S.L. Avda. Camino de lo Cortao, 34 San Sebastián de los Reyes 28700 Madrid Spain www.cashphenix.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/06/06	Yes	62
101000198271	Eagle Eye 7 FS	BPM	6.82	Puloon Technology Inc. 23-10, Hyoryeong-ro 60 gil Seocho-gu 137-866 Seoul Korea www.puloon.co.kr	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/07/09	Yes	62
102000198307	Eagle Eye 7 VS	BAM	6.83	Puloon Technology Inc. 23-10, Hyoryeong-ro 60 gil Seocho-gu 137-866 Seoul Korea www.puloon.co.kr	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/07/09	No	62

Identification number of the machine	Machine name	Machine category	Identification (hardware/software version)	Contact details of manufacturer	Machine process the following denominations of euro banknotes	Date of test	Machine equipped with fitness sorting capacity	Version of the test deck used in the test
101000125024 101000125035	GA-QFJ2101 BT-2101	BPM	EUR.02.05	Sahngai guao Electonic Technology Co., Ltd. 6, Alley 1225 TonPu Road, PuTuo Distric Shanghai China www.gu-ao.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/09/18	Yes	62
101000154155 101000154166 101000154177	GA-QFJ2101 A10 JBYD GA200 BT-2101 A10	BPM	EUR.03.03	Sahngai guao Electonic Technology Co., Ltd. 6, Alley 1225 TonPu Road, PuTuo Distric Shanghai China www.gu-ao.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/09/18	Yes	62
101000200867 101000200890	GA-QFJ3201 BT-3201	BPM	V2.1	Sahngai guao Electonic Technology Co., Ltd. 6, Alley 1225 TonPu Road, PuTuo Distric Shanghai China www.gu-ao.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/09/19	Yes	62
102000200879 102000201380	BT-800 SH-208C	BAM	IMG: 1.0.1.2.3.1	Nanjing Numenmatic Tech CO., LTD 606#, JiuZhou B Building, KunYang Town, PingYang country, Wenzhou City 325400China	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/09/19	No	62

Identification number of the machine	Machine name	Machine category	Identification (hardware/software version)	Contact details of manufacturer	Machine process the following denominations of euro banknotes	Date of test	Machine equipped with fitness sorting capacity	Version of the test deck used in the test
103000196486 103000196497	CM18 Da Vinci CM18 Da VinciT	TARM	Detector: RS32 SW: ZF08 EUF13.02	ARCA TECHNOLOGIES S.r.L. UNIPERSONALE Corso Vercelli, 322 Ivrea 10015 Italy www.arca.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/11/12	Yes	62
103000196501 103000205900	CM18 Da Vinci CM18 Da VinciT	TARM	Detector: RS32 SW: ZG08 EUG12.02	ARCA TECHNOLOGIES S.r.L. UNIPERSONALE Corso Vercelli, 322 Ivrea 10015 Italy www.arca.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2024/12/04	Yes	62

Footnote

- a) The manufacturer has declared that the machine(s) mentioned between brackets has/have the same performance regarding the tested functionality (authenticity/fitness/tracing ability).

Explanations

Prior to testing, manufacturers are requested to provide the following information to the Banco de España:

1. Country of origin (if not an EU Member State) of the machine,
2. Manner of note insertion, i.e. automated/batch processing, or manual feeding; according to the framework only machines with automated processing are tested according to this test procedure,
3. Information on whether the machine complies with any national or Community health and safety legislation; if so, which,

4. Indication of which banknote denominations and banknote feeding orientations the machine is designed to support and whether information on this is shown clearly on the machine,
5. Statement concerning which authentication features, as specified by the company, the machine is checking and how these checks are carried out,
6. User manual: if the user manual is not in the official languages of the Member State of the NCB which is conducting the test, other similar information needed for operating the machine shall be provided,
7. Information on whether the user manual or other instructions given to the user indicate (a) how, and (b) how frequently the machine needs to be serviced (e.g. cleaning of sensors) in order to function reliably,
8. Information on whether the machine can be adapted to detect new counterfeits, and if so, how this is achieved and how this can be verified by the user,
9. Information on how the fitness sorting thresholds can be changed, and
10. Information on the machine's power supply.

Disclaimer

- i. The counterfeit euro banknotes used in the test are, to the best of the knowledge of the ECB and the NCBs, those most commonly found in circulation in the euro area at the time of the update of the test deck used in the test. Since the ECB and the NCBs cannot foresee or exclude the possibility of new types of counterfeits appearing after the update of the test deck used, it is the responsibility of the manufacturers to regularly re-test the various types of machines. Furthermore, it is the responsibility of distributors and users of the machines to have the authentication devices integrated in their machines periodically updated in order to detect new counterfeits.
- ii. To the extent permitted by applicable law, the ECB and the NCBs do not accept any liability whatsoever for any direct or indirect damage resulting from the performance of the tests, the publication, non-publication, or removal from the Internet of the test results, or for the tests' outcomes.
- iii. The published test results neither contain, nor imply any recommendation by the ECB or the NCBs that third parties should or should not use the type of machine tested.
- iv. This statement does not imply any warranty by the ECB or the NCBs, whether express or implied, that the types of machines tested can detect counterfeit euro banknotes continuously and without error, or concerning their fitness for use, or their purpose irrespective of whether the users of the machine comply with the user requirements or not.