

Successfully tested type of banknote handling machines**Staff-operated machines****Last updated: 2021/09/14**

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 firmness sorting capacity	Version of the test deck used in the test
103000134766	Fujitsu RBU-10	TARM	Hardware: HV80 Software: J008	Fujitsu Technology Solutions, S.A. Camino Cerro de los Gamos, 1 28224, Pozuelo de Alarcón – Madrid Spain www.es.fujitsu.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2020/09/09	Yes	58
103000134777	Fujitsu RBU-10	TARM	Hardware: HV84 Software: J008	Fujitsu Technology Solutions, S.A. Camino Cerro de los Gamos, 1 28224, Pozuelo de Alarcón – Madrid Spain www.es.fujitsu.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2020/09/09	Yes	58
102000137187 101000137198	D6 D5	BAM	1.0.1.x	Grupo Sallen Tech, S.L. Calle Lérida, 68 22500 Binefar, Huesca Spain www.sallen.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2020/10/15	No	59

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
102000101835	Lince-600	BAM	IMAGE I65L	Batemat, S.A C/. Pujades, nº 60-4º-2 08005 Barcelona España www.batemat.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2020/10/15	No	59
102000137201	Lince-700	BAM	IMAGE 20120	Batemat, S.A C/. Pujades, nº 60-4º-2 08005 Barcelona España www.batemat.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2020/10/16	No	59
101000125024 101000125035	GA-QFJ2101 BT-2101	BPM	EUR.02.05	Sahngai guao Electronic 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€	2020/10/16	Sí	59
102000137699	V8000	BAM	V5.1	Batemat, S.A C/. Pujades, nº 60-4º-2 08005 Barcelona España www.batemat.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2020/10/20	No	59

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
103000113351 103000113362	CM18 Da Vinci CM18 Da Vinci HC	TARM	Detector: RS32 SW: ZF04.EUF007.05	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€	2020/12/17	Yes	59
103000113384	CM18 Da Vinci	TARM	Detector: RS22 SW: HJ8B.EUN028.18	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€	2020/12/17	Yes	59
103000107126 103000107137 103000107148 103000107159	CM14.8 CM24.8 CM24B Kendo CM24	TARM	Detector: RS15 SW: HR8A.EUN028.18	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€	2020/12/17	Yes	59
103000107160 103000107171 103000107182 103000107193	CM14.8 CM24.8 CM24B Kendo CM24	TARM	Detector: RS25 SW: HY8B.EUN028.18	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€	2021/01/29	Yes	59

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
101000141013 101000141024	Eagle Eye 7	BPM	4.33	PULOON Technology Inc. gd. Puloon Building, #23-10 Hyoryeong-Ro 60-Gil Seocho-Gu www.puloon.co.kr	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2021/04/05	Yes	59
103000145291	CM18 Da Vinci	TARM	Detector: RS22 SW: ZF07 EUF10.02	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€	2021/05/11	Yes	60
103000145280	CM18 Da Vinci	TARM	Detector: RS22 SW: ZG07 EUG010.02	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€	2021/05/11	Yes	60
103000115898	THR 150	TARM	Hart-CPU-Key-40F-20S	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€	2021/06/01	Yes	60

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
1010000146655	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,IDS: 6.15170000001	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€	2021/06/08	Yes	60
103000148216	Cashphenix THR 250	TARM	Cashphenix EUR_220621_IU1 FW 6A0.30 SW 7V00.75	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€	2021/07/08	Yes	60
103000149193	Fujitsu RBU-10	TARM	Hardware: HV80 Software: J008D	Fujitsu Technology Solutions, S.A. Camino Cerro de los Gamos, 1 28224, Pozuelo de Alarcón – Madrid Spain www.es.fujitsu.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2021/07/22	Yes	60
103000149217	Fujitsu RBU-10	TARM	Hardware: HV84 Software: J008D	Fujitsu Technology Solutions, S.A. Camino Cerro de los Gamos, 1 28224, Pozuelo de Alarcón – Madrid Spain www.es.fujitsu.com	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2021/07/22	Yes	60

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
103000150905	CM18 Da Vinci	TARM	Detector: RS22 SW: HJ8B EUN030.19	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€	2021/09/06	Yes	60
10200010856	Obolus Electrum	BAM	DSP 2.2.0.X	Grupo Sallen Tech, S.L. Calle Lérida, 68 22500 Binefar, Huesca Spain www.sallen.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2021/09/09	No	60
102000137176	Obolus Electrum	BAM	DSP 2.2.1.X	Grupo Sallen Tech, S.L. Calle Lérida, 68 22500 Binefar, Huesca Spain www.sallen.es	ES1 All denominations ES2 5€ ES2 10€ ES2 20€ ES2 50€ ES2 100€ ES2 200€	2021/09/09	No	60

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 machine 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.