

PRODUCT BROCHURE

**KERN
EMB 500-1**

Date: 08.07.2025

ENGLISH**Image not
available**

Entry level laboratory balance with tremendous weighing performance

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

Phone : +49 7433 9933-0
Fax : +49 7433 9933-149
Email : info@kern-sohn.com
Web : www.kern-sohn.com

Scan here for more
information

DESCRIPTION

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- Particularly flat design
- Ready for use: Batteries included
- Hook for underfloor weighing standard
- Also available as KERN EMB 500-1BE Black Edition
- Note: With the optional auxiliary set for density determination KERN YDB-04 also well suited for school and teaching operation, see accessories

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	EMB 500-1
Model-Serie	EMB
Assortment	KERN
Product Type	Laboratory balances
Product group	School balances
Product usage type	Main article
EAN code (Model)	4045761076525
Customs tariff number	84238129
IsKERNReferenceArticle NonMandatory	False

Technical data - Primary

Weighing capacity	500 g
Readability	0.1 g
Repeatability	0.1 g
Linearity	± 0.2 g
Weighing surface (d)	150 mm

Recommended adjusting weight 500 g (M1)

Technical data - Construction

Dimension housing (W×D×H)	170×244×39 mm
Material weighing plate	plastic
Casing material	plastic

Technical data - Display

Display height	15 mm
Backlight	no

Technical data - Power supply

Battery	9 V Block
Operating time	35 h

Technical data - Measuring system

Calibration method	Adjusting with external weight
--------------------	--------------------------------

Stabilisation time under laboratory conditions	3 s
Tare range	500 g
Warm up time	10 min
Weighing system	Strain gauge
Weighing units	dwt;g;oz;ozt

DAkkS Calibration	963-127
-------------------	---------

FUNCTIONS

Standard
Option

Technical data - Environmental conditions

Maximum humidity	80 %
Maximum operating temperature	35 °C
Minimum ambient temperature	5 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	265×200×65 mm
Gross weight	0.70 kg
Net weight	0.55 kg
Shipping method	Parcel service
Packaging component - by weight - paper	5 g
Packaging component - by weight - cardboard	720 g
Packaging component - by weight - plastics	5 g
Packaging component - by weight - styrofoam	98 g
Packaging component - by weight - foam	23 g
Delivery time	1 d

Optional Services

ENGLISH

ACCESSORIES

Model	Description
440-902	Power supply KERN 440-902
315-409-405	Safety Set KERN 315-409-405
470-902-003	Power supply KERN 470-902-003
YKA-03N	Power Adapter KERN YKA-03N
347-09	Test Weight KERN 347-09
KS-A01	Rechargeable battery pack external KS-A01

SERVICES

Model	Description
963-127	DAkkS Calibration KERN 963-127
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
961-247	Adjustment at the location of installation 961-247
970-011	Warranty extension KERN (+3 years) 970-011

SPARE PARTS

Model	Description
REMB-4011	Display overlay REMB-4011
440-902	Power supply KERN 440-902
REMB-2001	Keyboard PCB REMB-2001
470-902-003	Power supply KERN 470-902-003
REMB-8001	Battery compartment cover REMB-8001
REMB-6002	Weighing plate KERN REMB-6002

RELATED ARTICLES DATA

Model name	Weighing capacity	Readability	Repeatability	Linearity	Weighing surface (d)	Recommended adjusting weight
EMB 500-1BE	500 g	0.1 g	0.1 g	± 0.2 g	150 mm	500 g (M1)
EMB 2000-2V	2000 g	0.01 g	0.02 g	± 0.05 g	150 mm	2 kg (F1)
EMB 200-2	200 g	0.01 g	0.01 g	± 0.02 g	105 mm	200 g (M1)
EMB 2200-0	2200 g	1 g	1 g	± 2 g	150 mm	2 kg (M1)

Model name	Weighing capacity	Readability	Repeatability	Linearity	Weighing surface (d)	Recommended adjusting weight
EMB 5.2K5	5200 g	5 g	5 g	± 10 g	150 mm	5 kg (M1)
EMB 1200-1	1200 g	0.1 g	0.1 g	± 0.3 g	150 mm	1 kg (M1)
EMB 5.2K1	5200 g	1 g	1 g	± 3 g	150 mm	5 kg (M1)
EMB 100-3	100 g	0.001 g	0.001 g	± 0.005 g	82 mm	100 g (F1)
EMB 1000-2	1000 g	0.01 g	0.01 g	± 0.05 g	150 mm	1 kg (F1)
EMB 600-2	600 g	0.01 g	0.01 g	± 0.03 g	105 mm	500 g (F2)
EMB 500-1	500 g	0.1 g	0.1 g	± 0.2 g	150 mm	500 g (M1)
EMB 6000-1	6000 g	0.1 g	0.1 g	± 0.3 g	150 mm	5 kg (M1)
EMB 200-3	200 g	0.001 g	0.001 g	± 0.005 g	82 mm	200 g (F1)
EMB 2000-2	2000 g	0.01 g	0.01 g	± 0.05 g	150 mm	2 kg (F1)
EMB 200-3V	200 g	0.001 g	0.002 g	± 0.005 g	82 mm	200 g (F1)
EMB 3000-1	3000 g	0.1 g	0.1 g	± 0.3 g	150 mm	3 kg (M1)