KERN CFS 300-3



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points



Measuring system	
Adjustment options:	External calibration
Eccentric loading at 1/3 [Max]:	6 mg
Linearity:	4 mg
Readability [d]:	1 mg
Recommended adjusting weight:	200 g (F1); 100 g (F1)
Repeatability:	2 mg
Resolution:	300000
Stabilisation time under laboratory conditions:	2 s
Tare range:	300 g
Warm up time:	2 h
Weighing capacity [Max]:	300 g
Weighing system:	Strain gauge
Weighing units:	g
Display	
Display digit height (large):	2 cm
Counting	
Counting resolution:	60000
Mininum piece weight at piece counting (Laboratory:	5 mg
Mininum piece weight at piece counting (Normal):	50 mg
Reference weight:	yes
Functions	
Conversion function:	yes
Counting function:	yes
Function to save totals:	yes
PRE-TARE function:	yes

Weighing with tolerance range:

Environmental conditions	
Maximum humidity:	80 %
Maximum operating temperature:	40 °C
Minimum ambient temperature:	0 °C
Minimum humidity:	0 %
Power supply	
Charging time:	14 h
Input voltage:	110 V - 230 V AC
Mains adapter:	Mains adapter external
Mains adapter/adapter included:	EURO CH UK US
Operating time (Backlight off):	70 h
Operating time (Backlight on):	40 h
Rechargeable battery:	Rchrg. battery optional
Services (optional)	
DAkkS Certificate:	963-127
Category	
Brand:	KERN
Category:	Balances
Product Group:	Counting scale
Troudet Group.	- Counting soulc
Packaging & shipping	
Delivery:	24 h
Dimensions packaging (WxDxH):	640 x 540 x 230 mm
Gross weight:	5,500 kg
Net weight:	2,500 kg
Shipping method:	Parcel service
Construction	
Casing material:	Plastic
Dimensions device (WxDxH):	320 x 350 x 125 mm
Dimensions draft shield (WxDxH):	167 x 154 x 80 mm
51 1 1 1 04/5 10	
Dimensions housing (WxDxH):	315 x 350 x 110 mm
Dimensions housing (WxDxH): Dimensions of display device (WxDxH):	315 x 350 x 110 mm 320 x 350 x 120 mm
Dimensions of display device	
Dimensions of display device (WxDxH):	320 x 350 x 120 mm
Dimensions of display device (WxDxH): Level indicator:	320 x 350 x 120 mm yes
Dimensions of display device (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted	320 x 350 x 120 mm yes stainless steel
Dimensions of display device (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted (WxDxH):	320 x 350 x 120 mm yes stainless steel 315 x 350 x 185 mm
Dimensions of display device (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted (WxDxH): Revolving screw feet:	320 x 350 x 120 mm yes stainless steel 315 x 350 x 185 mm yes
Dimensions of display device (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted (WxDxH): Revolving screw feet: Weighing space (WxDxH):	320 x 350 x 120 mm yes stainless steel 315 x 350 x 185 mm yes 155 x 141 x 80 mm
Dimensions of display device (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted (WxDxH): Revolving screw feet: Weighing space (WxDxH):	320 x 350 x 120 mm yes stainless steel 315 x 350 x 185 mm yes 155 x 141 x 80 mm

yes

KERN CFS 300-3



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points

KERN CFS30K0.5



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points



Adjustment options: External calibration Eccentric loading at 1/3 [Max]: 2,500 g Linearity: 1 g Readability [d]: 500 mg Recommended adjusting weight: 10 kg (F2); 20 kg (F2) Repeatability: 500 mg Resolution: 60000 Stabilisation time under laboratory 2 s conditions: Tare range: 30 kg Warm up time: 2 h Weighing capacity [Max]: 30 kg Weighing system: Strain gauge Weighing units: kg lb Display Display digit height (large): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Measuring system	
Linearity: 1 g Readability [d]: 500 mg Recommended adjusting weight: 10 kg (F2); 20 kg (F2) Repeatability: 500 mg Resolution: 60000 Stabilisation time under laboratory 2 s conditions: Tare range: 30 kg Warm up time: 2 h Weighing capacity [Max]: 30 kg Weighing system: Strain gauge Weighing units: kg lb Display Display Display digit height (large): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Adjustment options:	External calibration
Readability [d]: 500 mg Recommended adjusting weight: 10 kg (F2); 20 kg (F2) Repeatability: 500 mg Resolution: 60000 Stabilisation time under laboratory conditions: Tare range: 30 kg Warm up time: 2 h Weighing capacity [Max]: 30 kg Weighing system: Strain gauge Weighing units: kg lb Display Display digit height (large): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Eccentric loading at 1/3 [Max]:	2,500 g
Recommended adjusting weight: Repeatability: So0 mg Resolution: Stabilisation time under laboratory conditions: Tare range: Warm up time: Weighing capacity [Max]: Weighing system: Weighing units: Display Display digit height (large): Display digit height (small): Counting Counting Counting Counting resolution: Mininum piece weight at piece 10 kg (F2); 20 kg (F2) 80000 Stabilisation time under laboratory 2 s Sound Substitute 2 kg 2 cm Counting Counting Counting Counting 500 mg	Linearity:	1 g
Repeatability: 500 mg Resolution: 60000 Stabilisation time under laboratory 2 s conditions: Tare range: 30 kg Warm up time: 2 h Weighing capacity [Max]: 30 kg Weighing system: Strain gauge Weighing units: kg lb Display Display digit height (large): 2 cm Display digit height (small): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Readability [d]:	500 mg
Resolution: 60000 Stabilisation time under laboratory 2 s conditions: Tare range: 30 kg Warm up time: 2 h Weighing capacity [Max]: 30 kg Weighing system: Strain gauge Weighing units: kg lb Display Display digit height (large): 2 cm Display digit height (small): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Recommended adjusting weight:	10 kg (F2); 20 kg (F2)
Stabilisation time under laboratory conditions: Tare range: 30 kg Warm up time: 2 h Weighing capacity [Max]: 30 kg Weighing system: Strain gauge Weighing units: kg lb Display Display digit height (large): 2 cm Display digit height (small): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Repeatability:	500 mg
conditions: Tare range: 30 kg Warm up time: 2 h Weighing capacity [Max]: 30 kg Weighing system: Strain gauge Weighing units: kg lb Display Display digit height (large): 2 cm Display digit height (small): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Resolution:	60000
Warm up time: Weighing capacity [Max]: Weighing system: Strain gauge Weighing units: bisplay Display digit height (large): Display digit height (small): Counting Counting Counting Counting resolution: Mininum piece weight at piece 2 h Strain gauge kg lb		2 s
Weighing capacity [Max]: Weighing system: Weighing units: Strain gauge Weighing units: kg lb Display Display digit height (large): Display digit height (small): 2 cm Counting Counting Counting resolution: Mininum piece weight at piece 500 mg	Tare range:	30 kg
Weighing system: Weighing units: Bisplay Display Display digit height (large): Display digit height (small): Counting Counting Counting resolution: Mininum piece weight at piece Strain gauge kg lb 2 cm 60000	Warm up time:	2 h
Weighing units: kg lb Display Display digit height (large): 2 cm Display digit height (small): 2 cm Counting Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Weighing capacity [Max]:	30 kg
Display Display digit height (large): 2 cm Display digit height (small): 2 cm Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Weighing system:	Strain gauge
Display digit height (large): 2 cm Display digit height (small): 2 cm Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Weighing units:	kg lb
Display digit height (small): 2 cm Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Display	
Counting Counting resolution: 60000 Mininum piece weight at piece 500 mg	Display digit height (large):	2 cm
Counting resolution: 60000 Mininum piece weight at piece 500 mg	Display digit height (small):	2 cm
Mininum piece weight at piece 500 mg	Counting	
	Counting resolution:	60000
counting (Laboratory:	Mininum piece weight at piece counting (Laboratory:	500 mg
Mininum piece weight at piece 5 g counting (Normal):		5 g
Reference weight: yes	Reference weight:	yes

Functions	
Conversion function:	yes
Counting function:	yes
Function to save totals:	yes
PRE-TARE function:	yes
Weighing with tolerance range:	yes
Environmental conditions	
Maximum humidity:	80 %
Maximum operating temperature:	40 °C
Minimum ambient temperature:	0°C
Minimum humidity:	0 %
Power supply	
Charging time:	14 h
Input voltage:	220 V - 240 V AC 50 Hz
Mains adapter/adapter included:	EURO CH UK US
Operating time (Backlight off):	70 h
Operating time (Backlight on):	40 h
Rechargeable battery:	Rchrg. battery optional
Services (optional)	
Adjustment at the location of installation	:961-248
DAkkS Certificate:	963-128
DAkkS Certificate: Category	963-128
-	963-128 KERN
Category	
Category Brand:	KERN
Category Brand: Category:	KERN Balances
Category Brand: Category: Product Group:	KERN Balances
Category Brand: Category: Product Group: Packaging & shipping	KERN Balances Counting scale
Category Brand: Category: Product Group: Packaging & shipping Delivery:	KERN Balances Counting scale
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH):	KERN Balances Counting scale 24 h 450 x 375 x 220 mm
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight:	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight:	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method:	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg Parcel service
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material:	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg Parcel service
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH):	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg Parcel service Plastic 320 x 350 x 125 mm
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH): Dimensions housing (WxDxH): Level indicator: Material weighing plate:	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg Parcel service Plastic 320 x 350 x 125 mm 315 x 350 x 100 mm
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH): Dimensions housing (WxDxH): Level indicator:	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg Parcel service Plastic 320 x 350 x 125 mm 315 x 350 x 100 mm yes
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH): Dimensions housing (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted	KERN Balances Counting scale 24 h 450 x 375 x 220 mm 4,400 kg 3,230 kg Parcel service Plastic 320 x 350 x 125 mm 315 x 350 x 100 mm yes stainless steel

Weighing surface (WxD):

295 x 225 mm

KERN CFS30K0.5



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points

KERN CFS3K-5



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points



Measuring system	
Adjustment options:	External calibration
Eccentric loading at 1/3 [Max]:	60 mg
Linearity:	100 mg
Readability [d]:	10 mg
Recommended adjusting weight:	2 kg (F1); 1 kg (F1)
Repeatability:	30 mg
Resolution:	300000
Stabilisation time under laboratory conditions:	2 s
Tare range:	3 kg
Warm up time:	2 h
Weighing capacity [Max]:	3 kg
Weighing system:	Strain gauge
Weighing units:	kg lb
Display	

op . s. y	
Display digit height (large):	2 cm
Counting	
Counting resolution:	60000
Mininum piece weight at piece counting (Laboratory:	50 mg
Mininum piece weight at piece counting (Normal):	500 mg
Reference weight:	yes

Functions		
Conversion function:	yes	
Counting function:	yes	
Function to save totals:	yes	
PRE-TARE function:	yes	
Weighing with tolerance range:	yes	

Environmental conditions	
Maximum humidity:	80 %
Maximum operating temperature:	40 °C
Minimum ambient temperature:	0°C
Minimum humidity:	0 %

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Charging time:	14 h
Input voltage:	110 V - 230 V AC
Mains adapter:	Mains adapter external
Mains adapter/adapter included:	EURO CH UK US
Operating time (Backlight off):	70 h
Operating time (Backlight on):	40 h
Rechargeable battery:	Rchrg. battery optional

Services (optional)		
DAkkS Certificate:	963-127	

Category	
Brand:	KERN
Category:	Balances
Product Group:	Counting scale

Packaging & shipping	
Delivery:	24 h
Dimensions packaging (WxDxH):	450 x 375 x 220 mm
Gross weight:	4,400 kg
Net weight:	3,211 kg
Shipping method:	Parcel service

Construction	
Casing material:	Plastic
Dimensions device (WxDxH):	320 x 350 x 125 mm
Dimensions housing (WxDxH):	315 x 350 x 100 mm
Level indicator:	yes
Material weighing plate:	stainless steel
Overall dimensions mounted (WxDxH):	315 x 350 x 125 mm
Revolving screw feet:	yes
Weighing surface (WxD):	295 x 225 mm

KERN CFS3K-5



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points

Piktogramme STANDARD KCP RS 232 RS 232 ROTOCOL DUAL SUM TOL MULTI DMS OPTION DAkks ACCU +3 DAYS FACTORY

KERN CFS50K-3



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points



Measuring system	
Adjustment options:	External calibration
Eccentric loading at 1/3 [Max]:	5 g
Linearity:	2 g
Readability [d]:	1 g
Recommended adjusting weight:	50 kg (F2)
Repeatability:	1 g
Resolution:	50000
Stabilisation time under laboratory conditions:	2 s
Tare range:	50 kg
Warm up time:	2 h
Weighing capacity [Max]:	50 kg
Weighing system:	Strain gauge
Weighing units:	kg lb
Display	

Display digit height (large):	2 cm
Counting	
Counting resolution:	50000
Mininum piece weight at piece counting (Laboratory:	1 g
Mininum piece weight at piece counting (Normal):	10 g
Reference weight:	yes

Functions		
Conversion function:	yes	
Counting function:	yes	
Function to save totals:	yes	
PRE-TARE function:	yes	
Weighing with tolerance range:	yes	

Environmental conditions	
Maximum humidity:	80 %
Maximum operating temperature:	40 °C
Minimum ambient temperature:	0 °C
Minimum humidity:	0 %

Power supply	
Charging time:	14 h
Input voltage:	220 V - 240 V AC 50 Hz
Mains adapter/adapter included:	EURO CH UK US
Operating time (Backlight off):	70 h
Operating time (Backlight on):	40 h
Rechargeable battery:	Rchrg. battery optional

Services (optional)

Adjustment at the location of installation: 961-248

DAkkS Certificate:	963-128

Category	
Brand:	KERN
Category:	Balances
Product Group:	Counting scale

Packaging & shipping	
Delivery:	24 h
Dimensions packaging (WxDxH):	470 x 440 x 205 mm
Gross weight:	5,900 kg
Net weight:	4,400 kg
Shipping method:	Parcel service

Construction	
Casing material:	Plastic
Dimensions device (WxDxH):	320 x 350 x 125 mm
Dimensions housing (WxDxH):	370 x 360 x 100 mm
Level indicator:	yes
Material weighing plate:	stainless steel
Overall dimensions mounted (WxDxH):	370 x 360 x 125 mm
Revolving screw feet:	yes
Weighing surface (WxD):	370 x 240 mm

KERN CFS50K-3



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points

KERN CFS6K0.1



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points



Measuring system	
Adjustment options:	External calibration
Eccentric loading at 1/3 [Max]:	500 mg
Linearity:	200 mg
Readability [d]:	100 mg
Recommended adjusting weight:	1 kg (F2); 5 kg (F2)
Repeatability:	100 mg
Resolution:	60000
Stabilisation time under laboratory conditions:	2 s
Tare range:	6 kg
Warm up time:	2 h
Weighing capacity [Max]:	6 kg
Weighing system:	Strain gauge
Weighing units:	kg lb
Display	
Display digit height (large):	2 cm
Display digit height (small):	4 mm
Counting	
Counting resolution:	60000
Mininum piece weight at piece counting (Laboratory:	100 mg
Mininum piece weight at piece counting (Normal):	1 g
Reference weight:	yes

Functions	
Conversion function:	yes
Counting function:	yes
Function to save totals:	yes
PRE-TARE function:	yes
Weighing with tolerance range:	yes
	•
Environmental conditions	
Maximum humidity:	80 %
Maximum operating temperature:	40 °C
Minimum ambient temperature:	0°C
Minimum humidity:	0 %
Power supply	
Charging time:	14 h
Input voltage:	220 V - 240 V AC 50 Hz
Mains adapter/adapter included:	EURO CH UK US
Operating time (Backlight off):	70 h
Operating time (Backlight on):	40 h
Rechargeable battery:	Rchrg. battery optional
Services (optional)	
Adjustment at the location of installation	v.061.248
Aujustinent at the location of installation	1. 901-240
DAkkS Certificate:	963-128
DAkkS Certificate: Category	963-128
	963-128 KERN
Category	
Category Brand:	KERN
Category Brand: Category: Product Group:	KERN Balances
Category Brand: Category: Product Group: Packaging & shipping	KERN Balances Counting scale
Category Brand: Category: Product Group: Packaging & shipping Delivery:	KERN Balances Counting scale
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH):	KERN Balances Counting scale 24 h 455 x 380 x 215 mm
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight:	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight:	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight:	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight:	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method:	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg Parcel service
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material:	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg Parcel service
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH):	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg Parcel service Plastic 320 x 350 x 125 mm
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH): Dimensions housing (WxDxH):	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg Parcel service Plastic 320 x 350 x 125 mm 315 x 350 x 100 mm
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH): Dimensions housing (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg Parcel service Plastic 320 x 350 x 125 mm 315 x 350 x 100 mm yes
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH): Dimensions housing (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted (WxDxH):	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg Parcel service Plastic 320 x 350 x 125 mm 315 x 350 x 100 mm yes stainless steel 315 x 350 x 125 mm
Category Brand: Category: Product Group: Packaging & shipping Delivery: Dimensions packaging (WxDxH): Gross weight: Net weight: Shipping method: Construction Casing material: Dimensions device (WxDxH): Dimensions housing (WxDxH): Level indicator: Material weighing plate: Overall dimensions mounted	KERN Balances Counting scale 24 h 455 x 380 x 215 mm 4,400 kg 3,200 kg Parcel service Plastic 320 x 350 x 125 mm 315 x 350 x 100 mm yes stainless steel

KERN CFS6K0.1



Professional, high-resolution counting balance with 100 item memories and second balance interface, counting resolution up to 75,000 points