

... Flexibility rated very highly ...

... Pesa Logistic In-Motion Scales CWL-B4.1



The special forte of the in-motion scales CWL-B4.1 – with load cell and as a hybrid system – lies in the ideal force distribution, even in case of unsymmetrical loads.

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By means of relatively easy modification of the leverage in the same platform, the variable adjustment is possible to various load ranges between 30 and 600 kilograms. Moreover, the large base surface of the load cell permits maximum dimensions of the weighing belt.



Belt scales, type CWL-B4.1

Basic unit consisting of

- AT200ECO display (table version)
- AWE BR201F evaluation electronics fitted in a die-cast aluminium housing
- Belt conveyor made of aluminium
- Drive and deflection pulley made of steel; end pieces made of stainless steel, diam. 80 mm
- Silk-screen plate as a transport plate
- Load carrier B4.1 ED 20 two-wire pick-up
- Base made of painted or galvanised steel, height adjustable +/- 50 mm
- 600 mm, 700 mm, 800 mm ± 50 mm: minimum working height (FOK) 400 mm
- Belt conveyor, type Siegling E5/2, black
- Belt drive SEW Motor 3 x Ph 380 VAC/50 Hz/0.37 kW to 1.1 kW
- Type of protection IP54
- Two light barriers, type Sick, type WL100
- Interfaces RS 232, RS 422, RS 485
- Belt speed up to 1.5 m/s

Sensor technology

B4.1-ED60 Hybrid,
Bridge size 800 x 635 mm (L x W)

Weight range

15/30/60/150/300 kg

Maximum overload

50 per cent of maximum weight range,
corresponds to 2.2 kN

Minimum reading

1 g (at a weight range of 30 kg)

Scale interval

1500/3000 n

Max. scale interval

30000 n

Min. calibration value

e = 10 g officially calibrated

Belt speed

Standard up to 1.5 m/s
Max. 2.75 m/s at a belt length of 2500 mm

Properties

High resolution independent of G

Use

For critical and demanding projects

Application

Chaotic product sequence with difficult ambient conditions:

- Integration in parcel sending and sorting systems
- Integration in feed lines
- Sorting applications
- Weight determination with integrated volume determination
- Product recognition with barcode reader

Non-chaotic products:

- Fill volume and unit weight control
- Completeness and quality check

Note

Maximum product length depending on the handling speed



■ **Overview CWL-B4.1**

X kg/3000 d n=e=X g +/- deviation	Load capacity kg +/- deviation	Calibration value of the load cell e=g	Official calibration	Permissible maximum +/- deviation	Permissible maximum +/- deviation
CWL-B4.1-30	30	10	Yes	± 2	± 20
CWL-B4.1-60	60	20	Yes	± 2	± 40
CWL-B4.1-150	150	50	Yes	± 2	± 100
CWL-B4.1-300	0	100	Yes	± 2	± 200

■ **Example CWL-B4.1-30**

30 kg/3000 d n=e=10 g	Load capacities in n intervals	Load capacity in kg	Interval values n	Permissible maximum +/- deviation	Permissible maximum +/- deviation
DLW60-30	0-500	0-5	3000	± 1	± 10
30 kg/3000 n	500-2000	5-20		± 1.5	± 15
n=10 g	2000-3000	20-30		± 2	± 20

■ **Working height**

600 mm +/-50 mm	700 mm +/-50 mm	800 mm +/-50 mm
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■ **Belt dimensions**

belt length	900 mm	1000 mm	1200 mm	1400 mm	1600 mm	1800 mm	2000 mm
belt width 400 mm	x	x	x	x	-	-	-
500 mm	x	x	x	x	x	-	-
600 mm	x	x	x	x	x	x	x
800 mm	-	x	x	x	x	x	x
1000 mm	-	-	-	-	x	x	x

■ **Mechanical accessories**

- Additional inlet or outlet belt
- Base painted in RAL colour
- Surcharge for special working height (FOK)
- Side guide, left and right
- Transition sheet metal
- Roller belt conveyor
- Sorting plate
- Surcharge for in-motion scales made of stainless steel
- Frame for inclines of a maximum of 10°
- Switch cabinet mounted to base

■ **Electrical accessories**

- FU, MoviTrac in switch cabinet 3-380 VAC-20 % -480 VAC+10 %
- MoviMot with bus connection, Profibus
- Checkweigher function – three potential-free signals

- Large display / 10 keyboard AT200ST
- Lamp, triple
- External horn
- External fault input, potential-free
- No stop, potential-free contract
- Emergency shut-down, mushroom type, drives motors are de-energised
- Preparation for UL and CSA approval with corresponding documentation
- Power mains transformer 110 VAC/60 Hz
- Ethernet TCP/IP
- Profibus DP (MBM)
- Static I/O ports, potential-free 24 VDC
 - 8 outputs, enable release, status signals
 - 8 inputs, start, stop, emergency shut-down, reset
- Brake resistance for FU
- Power supply unit 24 VDC 1 A
- Field bus distributor with MoviMot for motor actuation by Profibus, ASI, Ethernet interfaces
- Light barrier as a light curtain (Sich 8x light barrier)

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