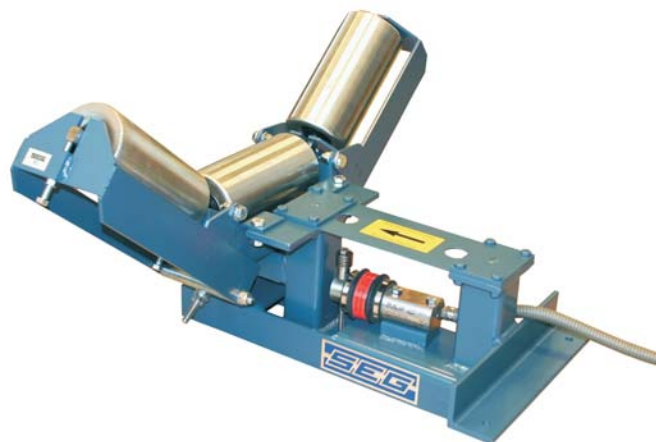
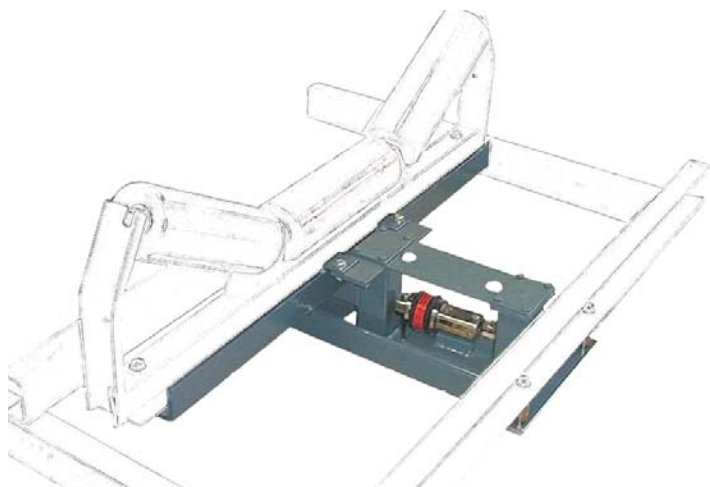




BELT WEIGHING UNIT BK

TECHNICAL DATA AND DIMENSIONS



The belt weighing unit BK consists of a weighing unit with load cell. The weighing unit is adapted for SEG load cells and may be equipped with an overload protection device, for 35kg and 100kg load cells.

The weighing unit can either be used together with an adapter for accommodation of an existing idler set, or with an adjustable SEG precision idler set with trued and balanced rollers.

The unit is delivered with the load cell (to be ordered separately) already installed. SEG Idler sets are available in various versions (see overleaf). The finish is varnished steel as standard. The maximum total load must be calculated, and a suitable load cell size selected from the table below. As a rule of thumb, the best accuracy is normally achieved when the idler distance "I" at the installed weighing unit is adjusted to 1-2 times of the conveyor belt width.

Total load = measuring load "P" + belt weight + idler weight. The measuring load is calculated acc. to the formula below:

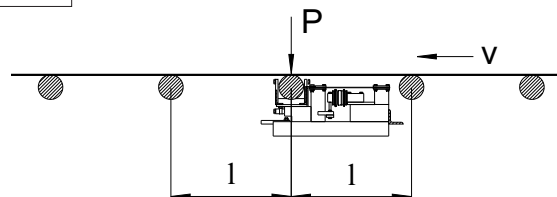
Loadcell rated load kg	Max total load kg	Over load protection (option) releases at kg	Measur. load P at full capacity	Belt weight kg/m	Idler weight kg
35	50	~65	Calculated	5-30	See overleaf
100	150	~155	Calculated	5-30	See overleaf
200	250	-	Calculated	5-30	See overleaf

$$P = (Q \times I) / (3600 \times v) \text{ kg} \quad \text{where}$$

Q = max capacity in kg/h

I = idler distance at area of weigh unit in metres

v = belt speed in m/s



Load cell must be ordered separately, refer to spec. for load cells type K.

DESIGNATIONS FOR WEIGHING UNIT:

The designation of the weighing unit consists of a 2 code group: **BK - Options** Example: **BK- 35**
- 0 (No option), **- 35** (Overload protection for 35kg load cell), **- 100** (Overload protection for 100kg load cell).

DESIGNATIONS FOR IDLERS:

The designation for idlers consists of a 3 code group: **Code - Version - Roller options** Example: **K3/K2-STD**

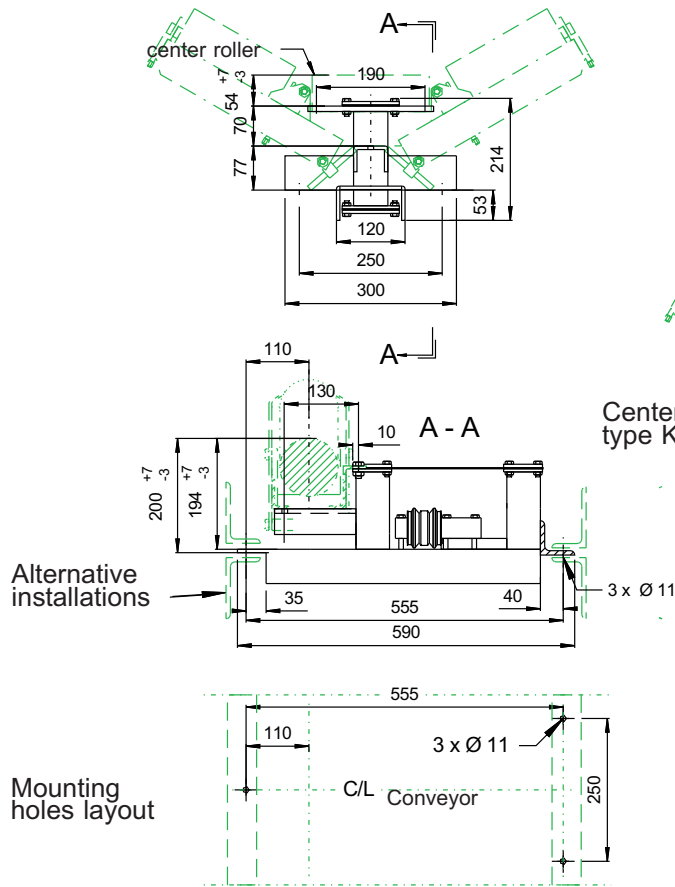
Code: P1-P5 Flat idlers. **Version:** -STD Std. coating **Roller options:** (w/o option rollers have STD coating)

Kx/Kx Troughed idlers. **Roller options:** -RPL Nylon coated rollers.

Vx V-shape idler. **Roller options:** -RSS Stainless rollers AISI 304.

Ux Adapter only.

The type of idler is selected acc. to the table overleaf. For troughed idlers the code no. for center- and side section is selected from the same table. Example: K3/K3-SS-RSS. A side section wider than the selected center section should be avoided. All idlers are delivered with coated steel rollers as standard. For dimensions see overleaf.

WEIGH UNIT BK:


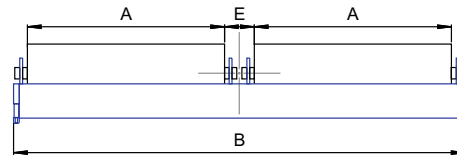
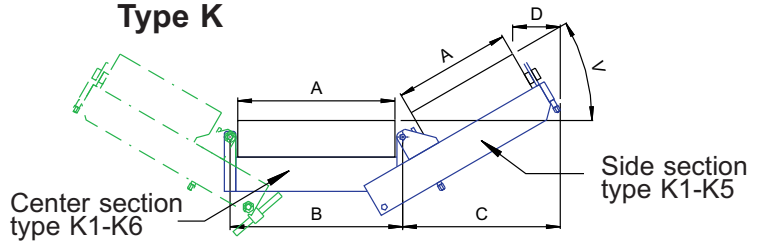
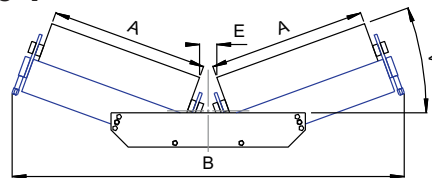
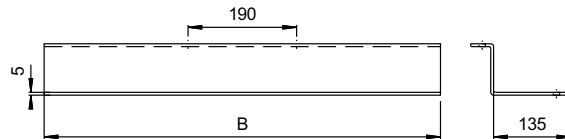
Weigh unit weight: 18 kg

DATA FOR IDLERS

Codes for idlers	Roller length A	B mm	C V=20°	C V=30°	C V=45°	Troughing V°	D V=20°	D V=30°	D V=45°	E	Weight kg/pc
K1 (Y+M)	205	232	280	276	254	15-45	65	83	106	-	6
K2 (Y+M)	275	302	346	336	303	20-45	65	83	106	-	7.5
K3 (Y+M)	345	372	411	397	353	20-45	65	83	106	-	8.5
K4 (Y+M)	415	442	477	457	402	20-45	65	83	106	-	10
K5 (Y)	415	-	477	457	402	20-45	65	83	106	-	10
K5 (M)	485	512	-	-	-	-	-	-	-	-	12
K6 (M)	555	582	-	-	-	-	-	-	-	-	12
V1	2x275	720	-	-	-	15-25	-	-	-	30	14
P1	485	530	-	-	-	-	-	-	-	-	10
P2	2x345	790	-	-	-	-	-	-	-	52	15
P3	2x415	930	-	-	-	-	-	-	-	52	18
P4	2x485	1070	-	-	-	-	-	-	-	52	19
P5	3x415	1400	-	-	-	-	-	-	-	2x52	26
U1	-	1000	-	-	-	-	-	-	-	-	9
U2	-	800	-	-	-	-	-	-	-	-	8

Y = Side section, M = Center section

For determination of codes for troughed idlers, a center section "M"-measure needs to be checked. For accurate determination of idler data, specification F11-0e "Belt weighing unit data sheet" needs to be asked for and returned to the local representative after having been filled in properly. This will ensure correct selection of idler type.

PRECISION IDLERS:
Type P

Type K

Type V

Type U, adapters for existing idler

 All rollers are $\varnothing = 102$ mm
 All measures in mm
