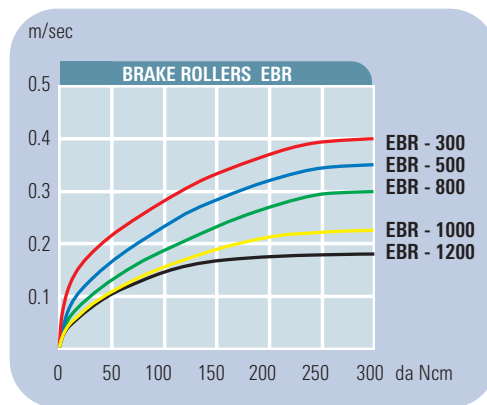
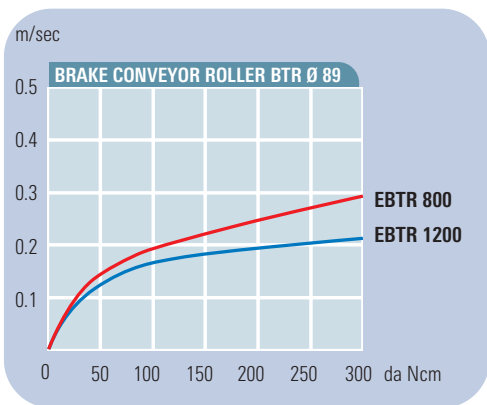
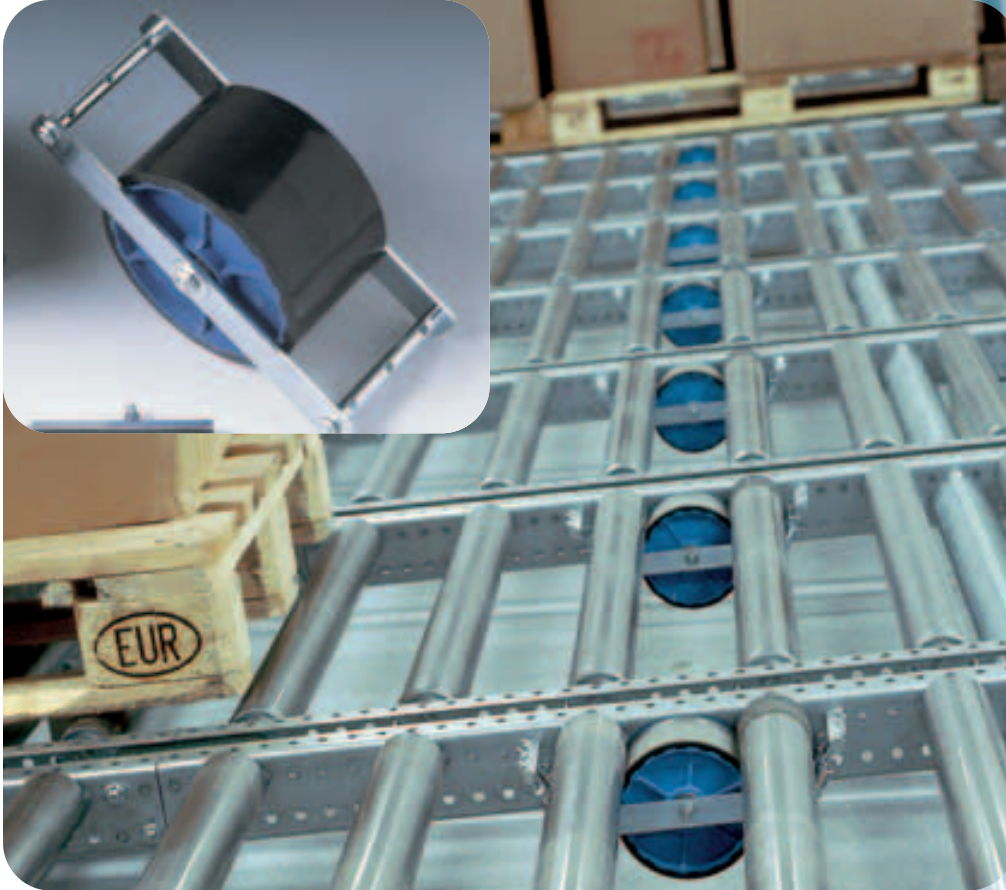


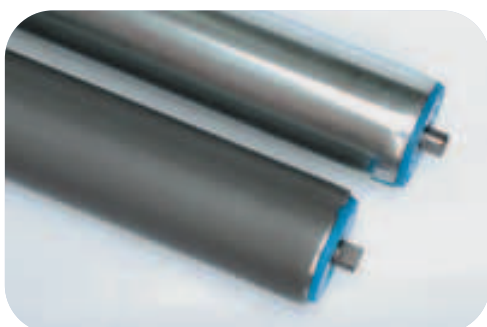
EUROROLL®-BRAKE ROLLERS BRAKE CONVEYOR ROLLERS

Areas of Application



Dependent on the kind of installation EURO-ROLL-Brake Rollers can be supplied with short or long mountings. An extensive range of accessories to install the Brake Rollers and to adjust them exactly supplements the product range.

2 kinds of installation are possible:
Direct or indirect speed control of the pallet to be conveyed.



Rubberised Brake Conveyor Roller

EUROROLL supplies Brake Conveyor Rollers where the entire length of the roller has a shrunk-on rubber cover, which is used for steel pallets or plastic pallets. The result is to get a better friction between the Brake Conveyor Roller and the pallet.

BRAKE ROLLERS BRAKE CONVEYOR ROLLERS

EUROROLL-Brake Rollers and EUROROLL-Brake Conveyor Rollers control the speed of the good to be conveyed on roller tracks while they keep the conveyed good at a constant run-off speed. This is achieved by means of planetary gearing, which at each revolution presses the centrifugal brake discs against the roller body, raising it with proportional brake force up to the brake momentum. The distance of the Brake Rollers and the correct brake roller type are influenced by several factors:

1. Construction and capacity of the roller track
2. Declination of the roller track
3. Characteristics of the good to be conveyed (size, weight, sensitivity, barrel-shaped)
4. Resistance of the Brake Roller
5. Environmental conditions, e.g. wet, cold or warm conditions

At least one Brake Roller or Brake Conveyor Roller has to be fitted per pallet place, as only then a controlled speed without acceleration and the appearance of great force can be achieved. The run-off speed should never be above 0.3 m/sec. The run-off speed is only 0.1 – 0.2 m/sec. when the Brake Rollers are correctly positioned. Important is the correct adjustment of the suspension of the Brake Rollers and Brake Conveyor Rollers. As only by means of the necessary pressing between the Brake Roller and the good to be conveyed (conveyor roller or pallet) a contact free from slipping occurs and a constant conveying speed is achieved.

Braking Force Diagram

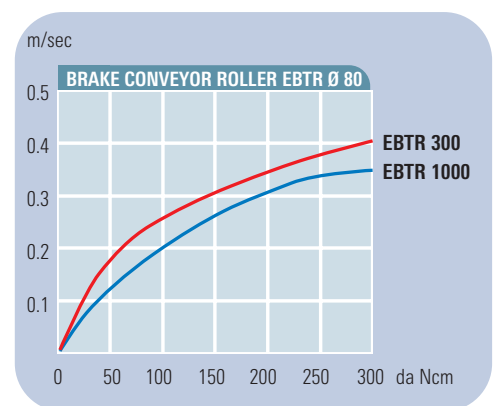
Braking force diagrams are a great help to choose the correct type of Brake Rollers and Brake Conveyor Rollers. Forces (which mainly arise due to acceleration), which exceed the characteristic curve, can overload and destroy the Brake Rollers. Therefore the Brake Rollers and Brake Conveyor Rollers always have to be fitted in pallet distance in roller tracks or even closer to each other. This means that the pallet in each position is always in contact with a Brake Roller (it's a speed controller).



The EUROROLL-Brake Conveyor Rollers are supplied in two different diameters and laid out for different loads:

Brake Conveyor Roller dia. 80 mm
Brake Conveyor Roller dia. 89 mm

Each Brake Conveyor Roller is delivered together with a set of suspension and therefore can only be installed in a way, that the Brake Conveyor Roller is suspended at maximum level of the roller track or less. The correct level of the moving of the elastic



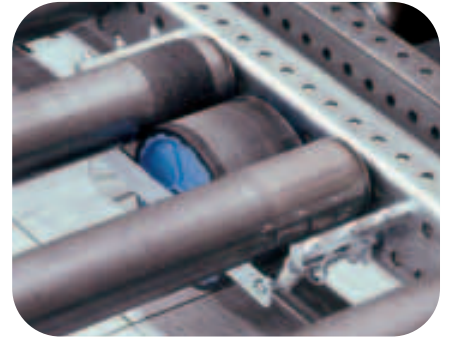
suspension and the lowest level of the top of the Brake Conveyor Roller have to be determined by carrying out careful measurements. (Figure based on experience: approx. 1 – 2 mm above roller upper level).

It is very important, that each Brake Conveyor Roller is exactly adjusted and checked. When using fixed holders the Brake Conveyor Roller will always be adjusted above the upper level of the rollers of the roller track. The level has also got to be determined by carrying out careful tests and then will be exactly adjusted.

TYPES OF INSTALLATIONS

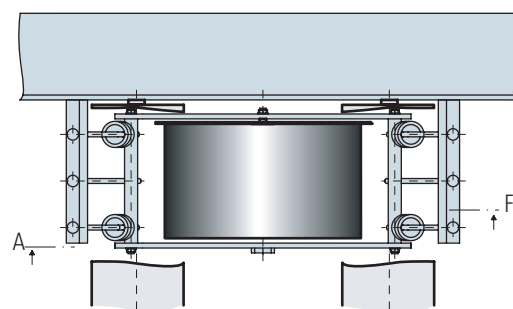
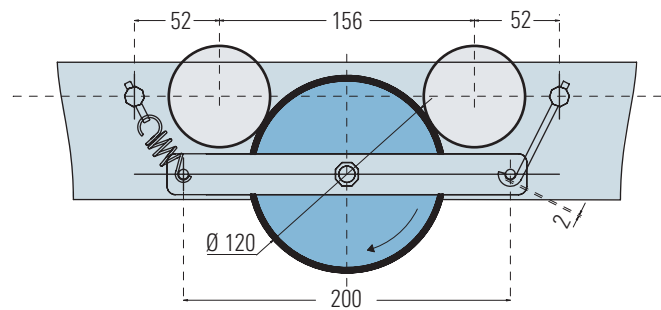
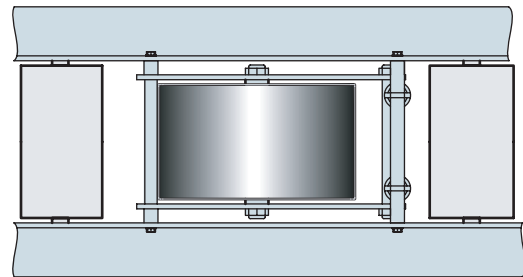
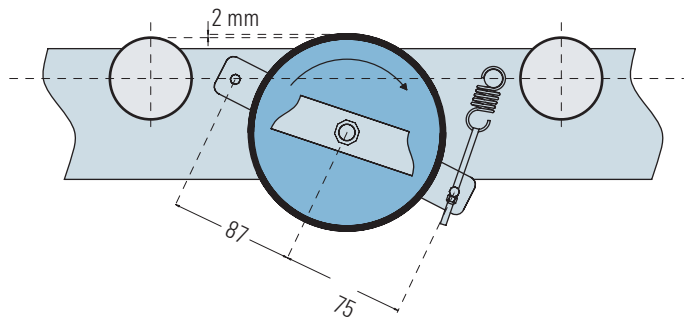
Direct Speed Controlling:

With direct speed controlling the EUROROLL-Brake Roller has direct contact with the pallet. The Brake Roller is spring suspended and has to be 2 mm above roller level of the conveyor.



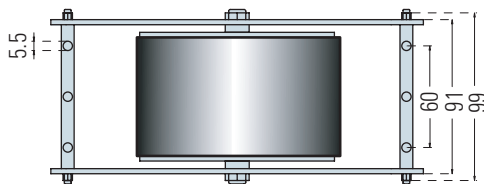
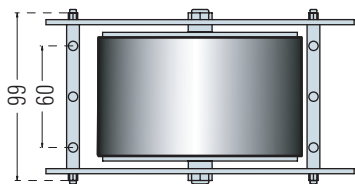
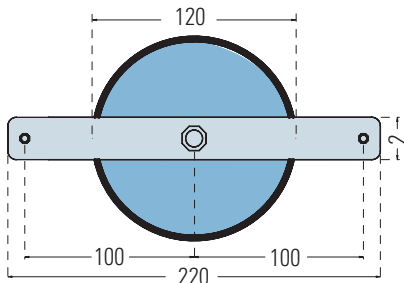
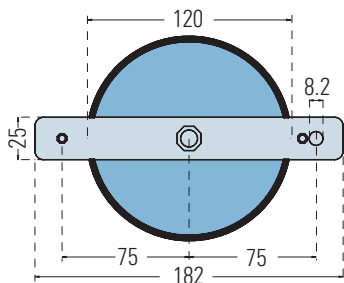
Indirect Speed Controlling:

In many cases the indirect speed control is preferred as the contact to the pallet is transferred by means of 2 conveyor rollers. 4 springs take over the optimal contact, 2 hook screws, fitted loosely, secure the brake roller. In order to improve the contact between Brake Roller, conveyor roller and pallet, self-adhesive friction covers should be fitted to the conveyor roller, which are in contact with the Brake Roller.

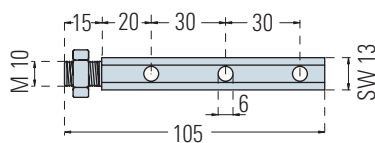


EUROROLL®-BRAKE ROLLERS

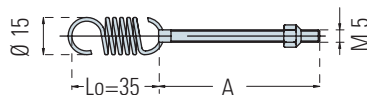
fitting examples, technical data, accessories



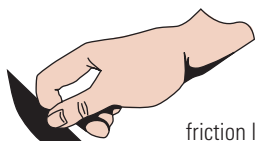
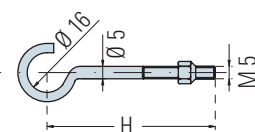
suspension pin



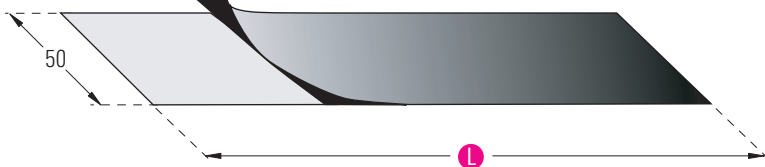
spring suspension A = 30, 40, 50, 65



hook screw H = 67 oder 88 mm



friction lining for conveyor roller



The EUROROLL-Brake Roller can be delivered with short or long mountings.

Mounting long: **-L**

Mounting short: **-K**

With a 4 % declination the Brake Rollers should be supplied with the following maximum loading weights:

Loading weight 300 kg: **EBR 300**

Loading weight 500 kg: **EBR 500**

Loading weight 800 kg: **EBR 800**

Loading weight 1000 kg: **EBR 1000**

Loading weight 1200 kg: **EBR 1200**

Order example: EBR 800 – L

EUROROLL-Brake Roller with long mountings for 800 kg/pallet

Suspension pin: **AAB**

Suspension pin to fix the Brake Roller

Spring suspension in different lengths:

Length A = 30 mm: **FB 30**

Length A = 40 mm: **FB 40**

Length A = 50 mm: **FB 50**

Length A = 65 mm: **FB 65**

Hook screw in different lengths:

Length H = 67 mm: **HB 67**

Length H = 88 mm: **HB 88**

Friction lining for the conveyor roller (self-adhesive) for indirect installation (please state length): **RNN – L**

EUROROLL-BRAKE ROLLERS

Roller Type	Allowed Pallet Weights	Mounting Short -K Mounting Long -L	Suspension Pin	Spring Suspension for different Lengths	Hook Screw	Friction Lining /Length L
EBR 300	300 kg	-K oder -L	AAB	FB 30, FB 40, FB 50, FB 65	HB 67, HB 88
EBR 500	500 kg	-K oder -L	AAB	FB 30, FB 40, FB 50, FB 65	HB 67, HB 88
EBR 800	800 kg	-K oder -L	AAB	FB 30, FB 40, FB 50, FB 65	HB 67, HB 88
EBR 1000	1000 kg	-K oder -L	AAB	FB 30, FB 40, FB 50, FB 65	HB 67, HB 88
EBR 1200	1200 kg	-K oder -L	AAB	FB 30, FB 40, FB 50, FB 65	HB 67, HB 88