HAMSA

SELF-ALIGNING ROLLERS FOR CONVEYOR BELTS

ROLLAX®

ROLLAX®

GENERAL POINTS

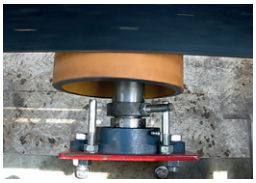
- The **ROLLAX**® self-aligning roller is behind the automatic guiding technology of conveyor belts using movement of the load it receives to correct the trajectory when offsets occur.
- Used for curative or preventive purposes, the **ROLLAX**® effectively corrects offsets caused by the following anomalies or incidents:

  - Poorly adjusted rollers and drums
  - Side loads
  - Asymmetrical stress
  - Clogging
  - Accidental deformation of the chassis frame
  - Non-rectilinear conveyor belts
  - Defective alignment of connections
  - Crosswise and lengthwise tearing

- The **ROLLAX**® handles critical zones of the conveyor, particularly that of the idler pulley, by helping with regular loading of the belt and load stability until it is unloaded.
- The standard sealing of the mechanism is very sophisticated to suit the vast majority of applications.
- The **ROLLAX**® is always coated in rubber lagging.

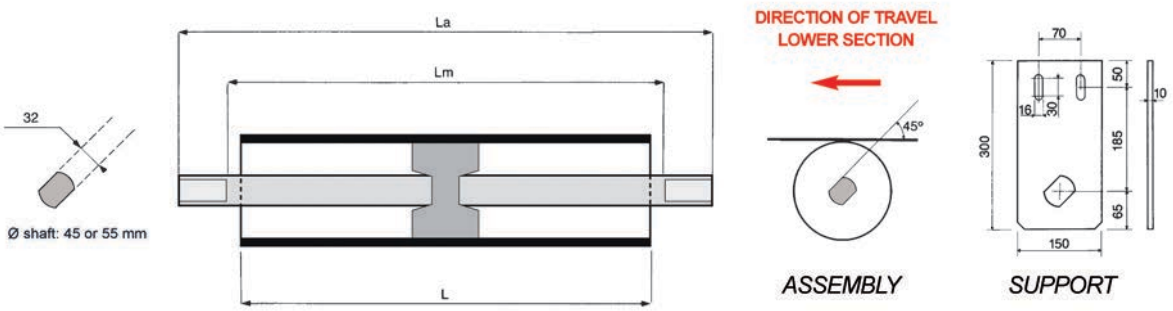
ADVANTAGES

- **Fast, safe offset treatment.**
- **Correction movements in proportion to the extent of the offsets.**
- **Permanent alignment monitoring.**
- **Cuts the maintenance costs associated with the belt, conveyor and its environment.**



SELF-ALIGNING ROLLERS

ROLLAX WITH ONE DIRECTION OF TRAVEL - SM1 and LSM1



STANDARD PRODUCT RANGE

Reference	Belt width	Ø bare ROLLAX	L	Ø shaft	La	Lm	Weight
SM1 400	400 mm	159	475	45	705	525	32 kg
SM1 500	500 mm	159	575	45	805	625	35 kg
SM1 650	650 mm	159	725	45	955	775	39 kg
SM1 800	800 mm	159	875	45	1105	925	44 kg
SM1 1000	1000 mm	159	1115	45	1345	1165	50 kg
SM1 1200	1200 mm	159	1315	45	1545	1365	56 kg
LSM1 1200	1200 mm	193	1315	55	1545	1365	84 kg
LSM1 1400	1400 mm	193	1515	55	1745	1565	93 kg
LSM1 1600	1600 mm	193	1715	55	1945	1765	102 kg
LSM1 1800	1800 mm	193	1915	55	2145	1965	111 kg
LSM1 2000	2000 mm	193	2115	55	2345	2165	120 kg

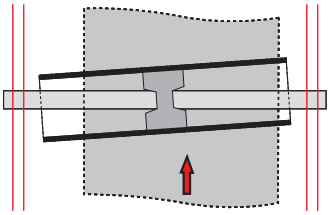
* Different L, La and Lm on request

OPERATING PRINCIPLE

The **ROLLAX**® self-aligning roller is set up under the lower section of the belt, on the same tangent as the neighbouring swivelling accessories.

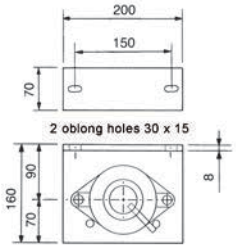
The central mechanism connecting the fixed pin and the rubber-coated tube only allows the latter to move within a 45° plane in relation to the belt, in response to the movement of the load received.

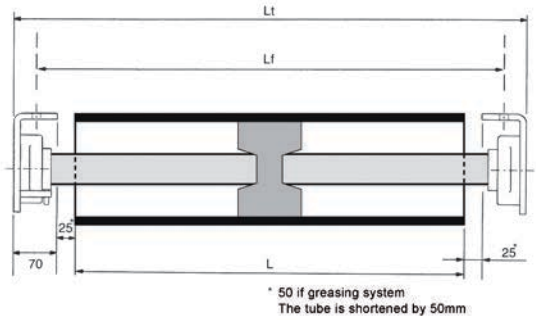
As such, if offset occurs, the **ROLLAX**® loses its perpendicularity to varying degrees in relation to the conveyor, and its rotation in this temporary position automatically realigns the belt.

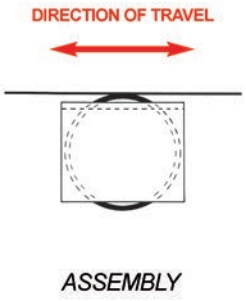


Correction movement of the ROLLAX when the conveyor belt offsets to the right.

REVERSIBLE ROLLAX - SM2 and LSM2







STANDARD PRODUCT RANGE

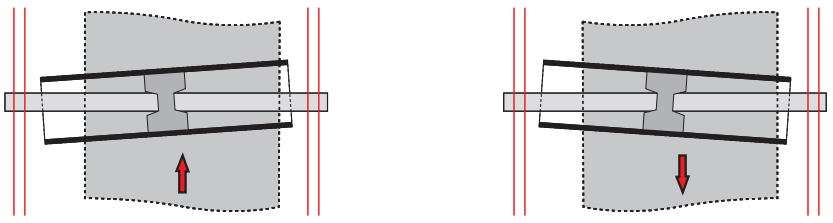
Reference	Belt width	Ø bare ROLLAX	L	Ø shaft	Lf	Lt	Weight
SM2 400	400 mm	159	475	45	595	665	34 kg
SM2 500	500 mm	159	575	45	695	765	37 kg
SM2 650	650 mm	159	725	45	845	915	42 kg
SM2 800	800 mm	159	875	45	995	1065	46 kg
SM2 1000	1000 mm	159	1115	45	1235	1305	52 kg
SM2 1200	1200 mm	159	1315	45	1435	1505	58 kg
LSM2 1200	1200 mm	193	1285	55	1435	1505	86 kg
LSM2 1400	1400 mm	193	1485	55	1635	1705	95 kg
LSM2 1600	1600 mm	193	1685	55	1835	1905	104 kg
LSM2 1800	1800 mm	193	1885	55	2035	2105	113 kg
LSM2 2000	2000 mm	193	2085	55	2235	2305	122 kg

* Different L, Lf and Lt on request

OPERATING PRINCIPLE

On reversible **ROLLAX**® rollers SM2 and LSM2, the pin is assembled on bearings but its rotation is limited by two stops.

When the direction of travel changes, the central mechanism automatically pivots 90° and its operation is therefore reversed to realign the belt in its new direction.



Correction movements of the ROLLAX for an offset on the same side as the conveyor, depending on which direction the belt is travelling in.

The **ROLLAX**® range also includes rollers L1 and L2 with a Ø 89. Please contact us.

LAGGING

For optimum effectiveness, the **ROLLAX**® must be given an appropriate rubber lagging for the application.

For common lagging *, we opt for the non-clogging version if there is a risk of clogging.

Type		Reference	Thickness	Colour
NON-CLOGGING	*	AC	7-10	Beige
ANTI-ABRASION	*	AA	7-10	Black
GROOVED ANTI-ABRASION		AAR	8	Black
GREASE-RESISTANT NITRILE		NAH	6	Black
FLAME-RESISTANT		V	6-10	Black
GREASE-RESISTANT NITRILE		ALH	6	White

PRODUCT NAME EXAMPLES

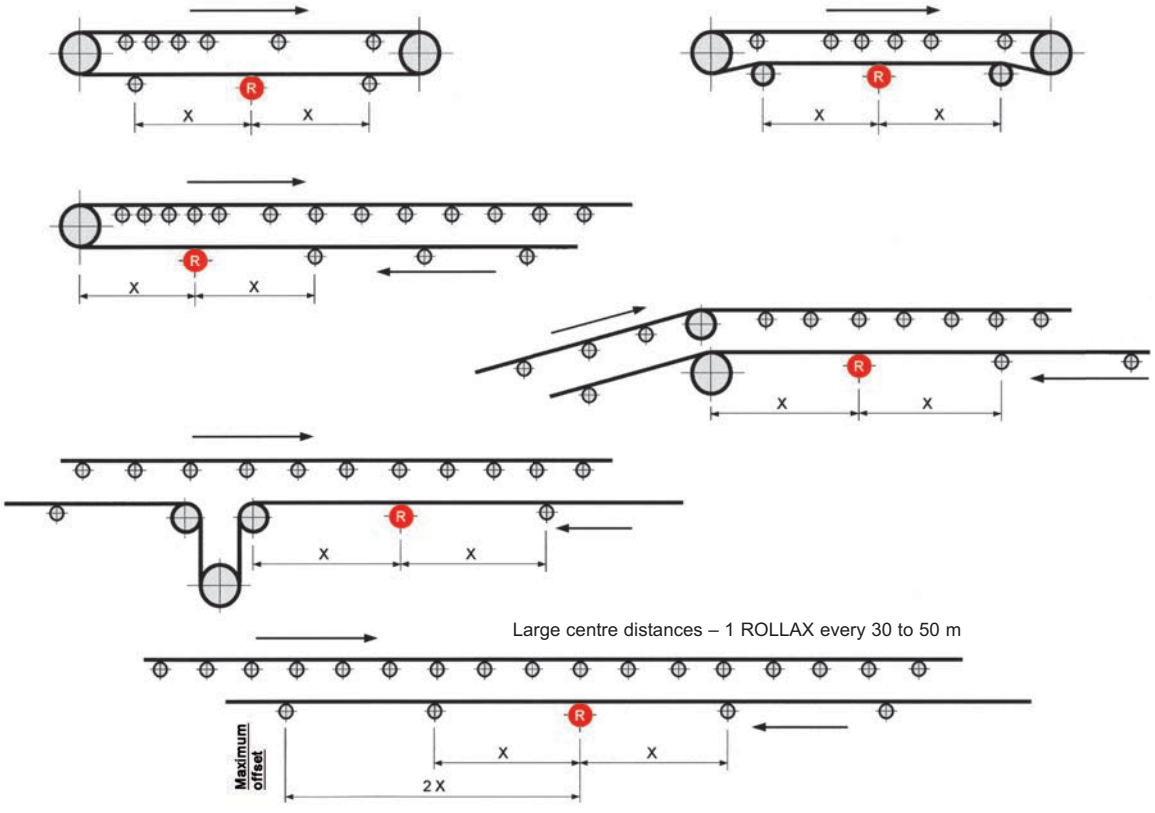
ROLLAX SM1 800 / AC7

ROLLAX SM2 1200 / NAH6 / STAINLESS STEEL tube

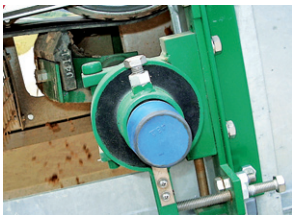
OPTIONS

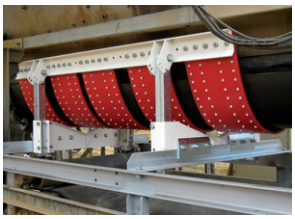
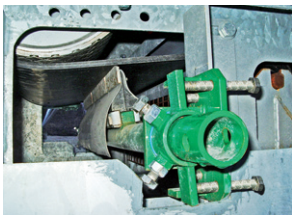
- Partial or total finish in stainless steel
- G greasing system for high speeds or highly polluted environments.

INSTALLATION EXAMPLES



BELLE BANNE	ROLLAX	SPILL-EX	FLEXAL
ACMAN	CENTRAX	SEALTEK	EXCALIBUR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