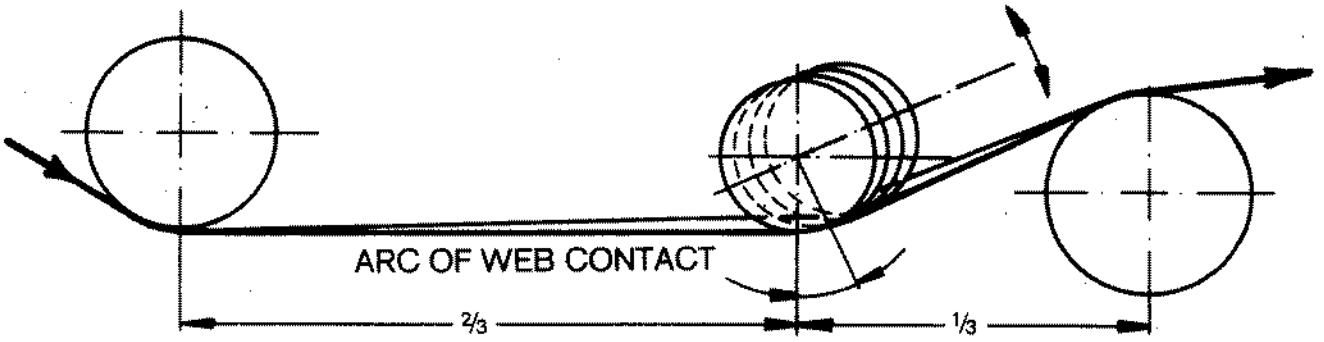
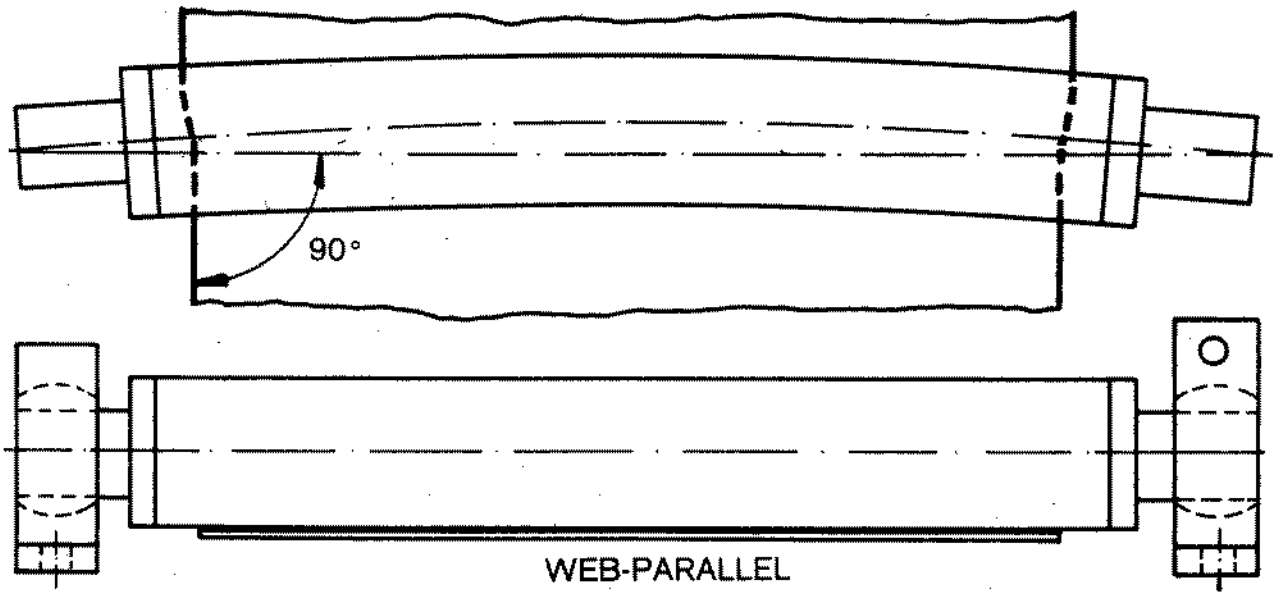
ROBEC spreader rollers must be installed so that the web is guided on the concave side and leaves on the convex side before reaching the top of the arch.



Before running onto the spreader roller the web length should be c. 2/3rds (or at least 3 × roller diameter), and after running off c. 1/3rd of the available web length.

The best arc of web contact is for paper c. 20°, wet felt 30–60°, fabric screen 25–40°, plastic machine wire 10–20°.



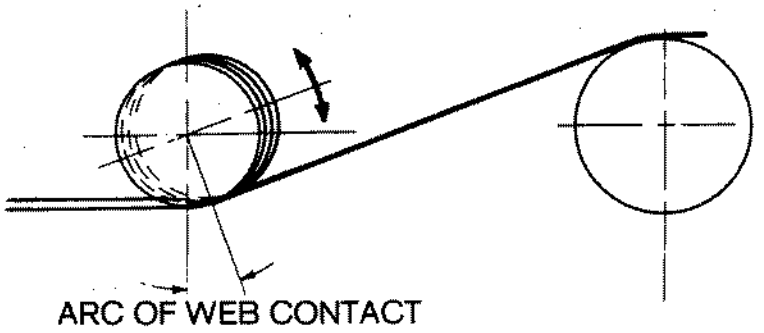
The spreader roller must be installed at right angles (90°) and exactly parallel with the web. Wrong installation will cause faulty action and irregularities/heavy wear of the rubber shell on the roller.

Ball mountings in the bearings will make possible easy alignment.

A specific running direction is not necessary.

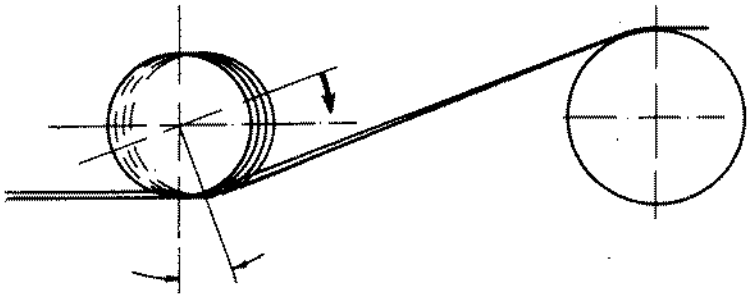
The action of ROBEC spreader rollers can be variably adjusted by turning the curved roller into the web or out of the web, as required (Fig. A).

A



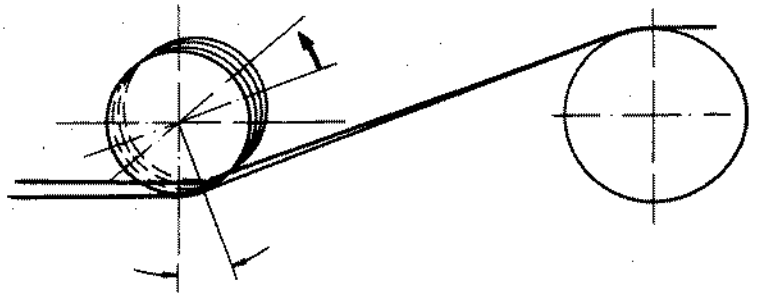
By swining the curved roller into the paper web loose middles lie fully on the roller shell, so that the entire width of the web is spread out without creasing. The middle prerun near the felt is corrected in the same way, so that the felt is guided straight and smooth (Fig. B).

B

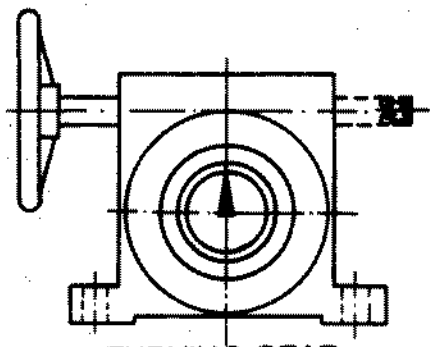


Swinging the curved roller out of the paper web allows loose sides to lie fully on the roller shell, thus achieving creaseless web guide. Edge prerun near felt is returned (Fig. C).

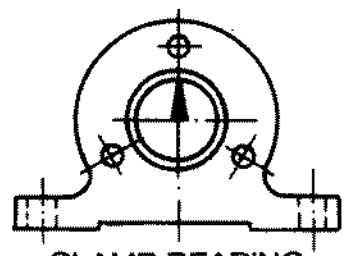
C



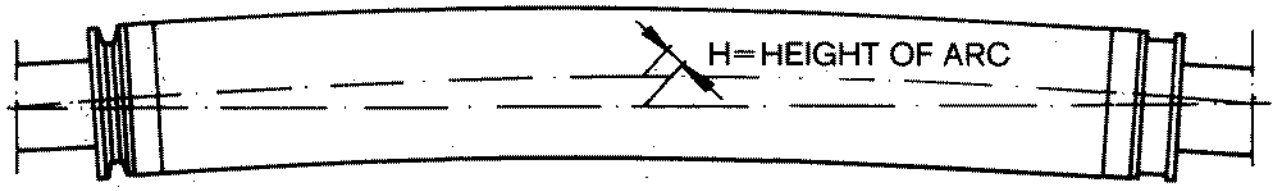
ROBEC spreader rollers are usually supplied with self-locking turning gears and abutments. The curved roller swivel action (360°) is accomplished by means of a handwheel or wrench via the worm shaft. If clamp bearings are supplied the roller spindles are provided with holes or key faces for swivelling; the lock is effected by tightening the clamp screws. The curved roller is marked on its spindle end.



TURNING GEAR



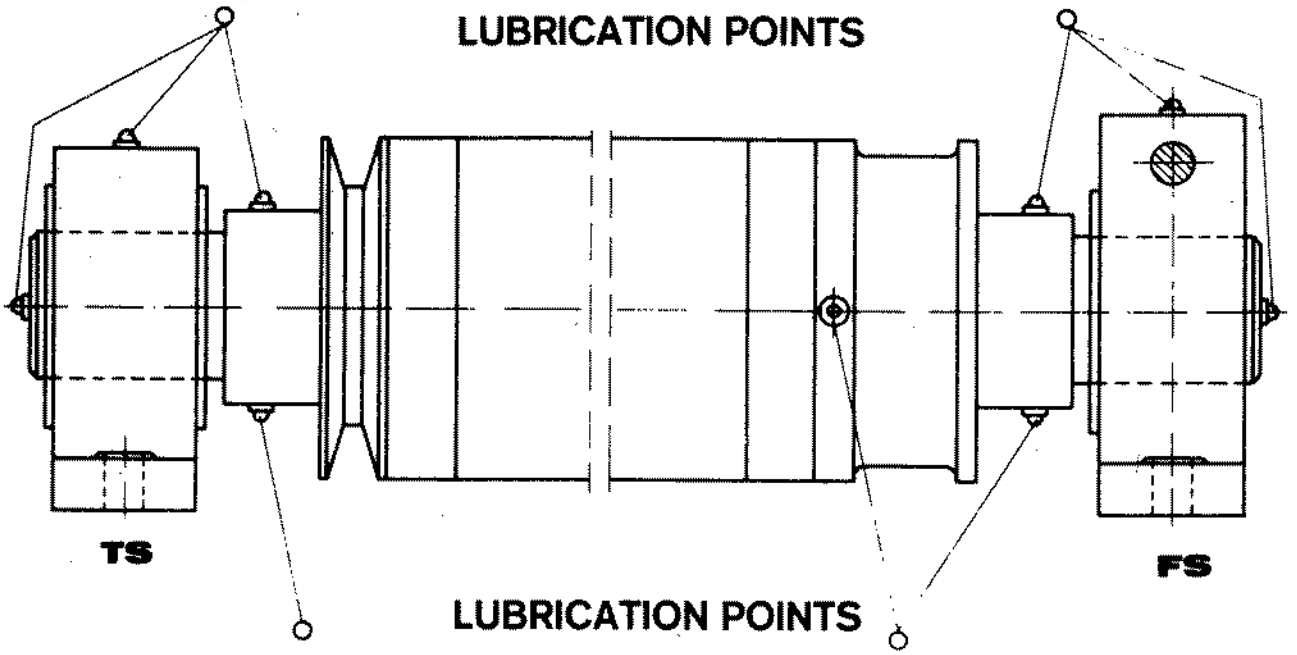
CLAMP BEARING



The **fixed** height of arc of the spreader rollers will be determined by its location and arc of web contact.

ROBEC variable spreader rollers with **adjustable** height of arc can be operated in the same way. An additional feature is that the height of arc can be set by means of a square key at the spindle end, which guarantees optimal action.

Frictional drive or rope pulleys have friction clutches which can be accurately set by means of a clamp ring without stopping the run.



Lubrication Instructions for ROBEC Spreader Rollers

Design: The lubrication points on ROBEC spreader rollers are located in front of the end seals or on the spindle ends, if loose pulleys are provided, also on their periphery. Lubrication nipples are provided on the casing tops of turning gears and abutments. The lubrication points indicated on the drawing are for forced-feed lubrication. All grease chambers have been filled in our works.

Action: The forced-lubrication packs grease into the chambers between the seals. Please ensure that **all** lubrication points get served.

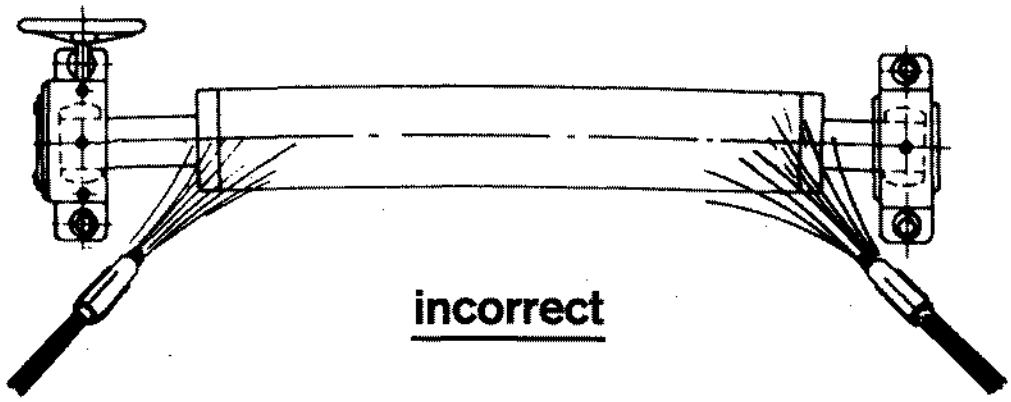
Routine: Lubrication must be made every **4 weeks** for **normal** conditions, but twice weekly if exposed to aggresive media.

Grades: Mobilux 3 (Mobil) · BEACON 3 (Esso)
Alvania R 3 (Shell) · Energrease LS 3 (BP)
or similar grade

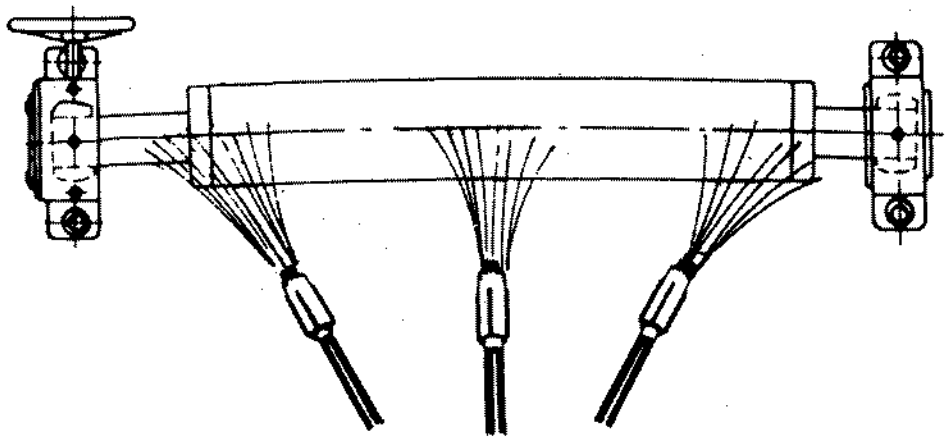
ROBEC spreader rollers that have no visible lubrication points do not require maintenance.

The internal antifriction bearings have been packed with long-lasting grease and do not require regreasing.

When cleaning the roll please ensure that water jets do not impinge directly on the end seals, so that the grease will not be washed out of the labyrinth end sealings.



incorrect



correct