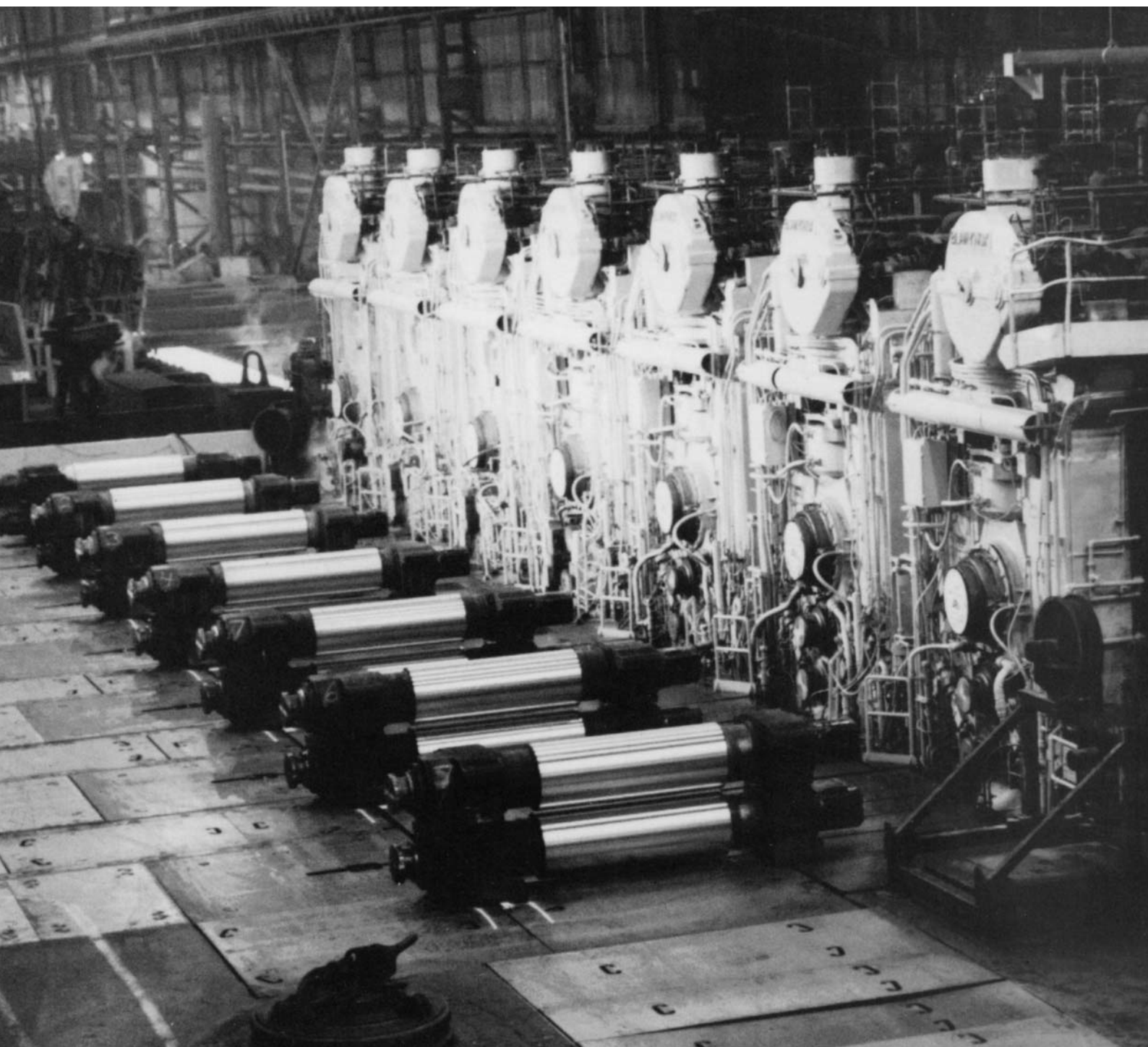


# Work Roll Bearing Arrangement of the 7-stand Finishing Section of a 84" Hot Strip Mill with Bending and Shifting

# FAG

Examples of Application Engineering

WL 17 520 GB-D

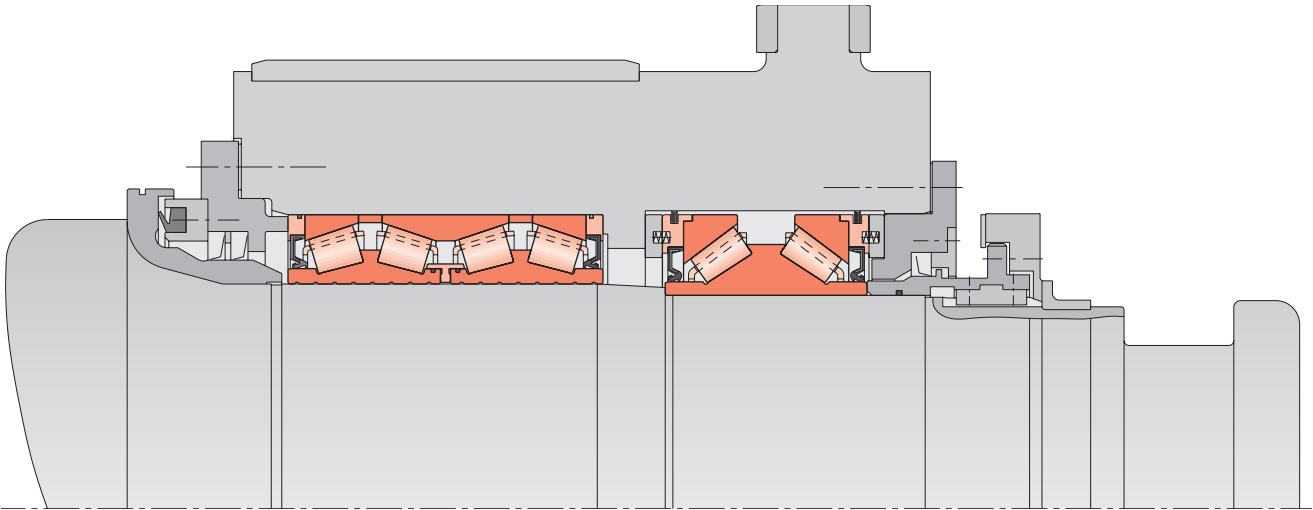


Manufacturer: SMS Demag Inc., Pittsburgh / USA (retrofit stands 2-7)  
Operator: U.S. Steel Corp., Gary Works / USA

**SCHAEFFLER GROUP**  
INDUSTRIAL

## Sealed tapered roller bearings for work rolls

Reduced lubricant consumption and improved service life



### Radial bearing

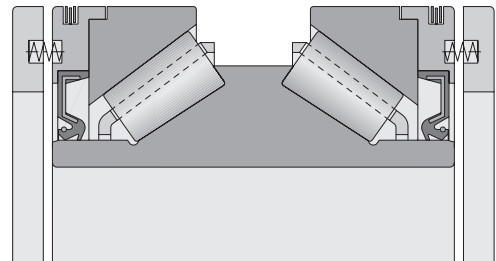
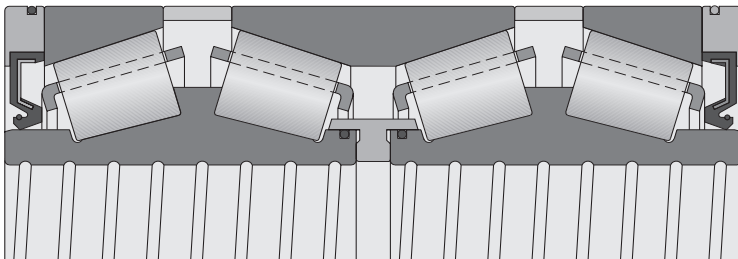
At both ends the rolls are supported by sealed, four-row tapered roller bearings **F-802007.TR4-H122AG**. Their dimensions are identical with those of the previously used bearings **Z-564694.01.TR4**.

Dimensions:    d    482,68 mm  
                  D    615,95 mm  
                  B    330,2 mm

### Axial bearing

The axial loads that are effective during axial displacement are accommodated at the operator end by a sealed double-row tapered roller bearing **Z-577775.01.TR2**.

Dimensions:    d    440 mm  
                  D    615,95 mm  
                  B    263,6 mm



### Operating data

Bending force maximal    1 335 kN  
Roll body diameter        736 mm  
Roll body length         2 133 mm  
Rolling speed             2,6 - 20 m/s  
(stands 2 to 7)

### Lubrication

The grease is held close to the rolling elements. It is effective over a long period of time. Since no grease can escape from the bearings, and only little amounts of it are needed, a high-quality rolling bearing grease can be used. High-quality grease and improved cleanliness as a rule result in a longer service life.

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