

## Technical Information

### Roller drive, based on the pinwheel gear principle, in a roller hearth furnace

#### Technical description

This facility serves to anneal and bend glass panels. The panel is heated to bending temperature in the furnace chamber. To avoid deflections (waviness), the plates are continuously moved on the ceramic rollers. All the load-bearing rollers must move in absolute synchronism, since relative movements would damage the glass surface. The roller drive with Biflex inverted tooth chain ensures complete synchronicity and avoids slack upon reversal. The chain is not wrapped around the sprockets but meshes tangentially with them.

#### Special features

- total synchronicity
- no slack upon reversal
- insensitive to radiated heat
- long service life
- flexible adaptation to application conditions

#### Technical data

Motor type	2 Gear motors
Motor power N	2.2 [kW]
Speed n	max. 130 [min <sup>-1</sup> ]
Drive torque M	max. 310 [Nm]



Roller spacing	120 [mm]
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Velocity v	~ 0.5 [m/s]
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Lubrication	manual
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Retensioning	pneumatic
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Tooth chain type	Biflex
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Sprocket wheel	Sprockets with special tooth profile
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