

Housing Freewheel FCBM

Backstop for Kiln drives
with electromagnetic and manual release function



Application as

- ▶ Backstop

Features

The Housing Freewheel FCBM is used to control reverse rotation of the kiln when a rotary kiln drive is shut down. It is equipped with a Cage Freewheel on the main shaft and a multi-disc brake as well as a centrifugal brake on the worm shaft.

When the rotary kiln drive is shut down, the Cage Freewheel automatically engages the main shaft and the worm shaft. The closed multi-disc brake prevents reverse rotation of the rotary kiln. Through electromagnetic or manual releasing of the multi-disc brake, the controlled reverse rotation of the rotary kiln is then initiated. During reverse rotation, the centrifugal brake is used to ensure a controlled low speed of the rotary kiln until it has come to a stand still.

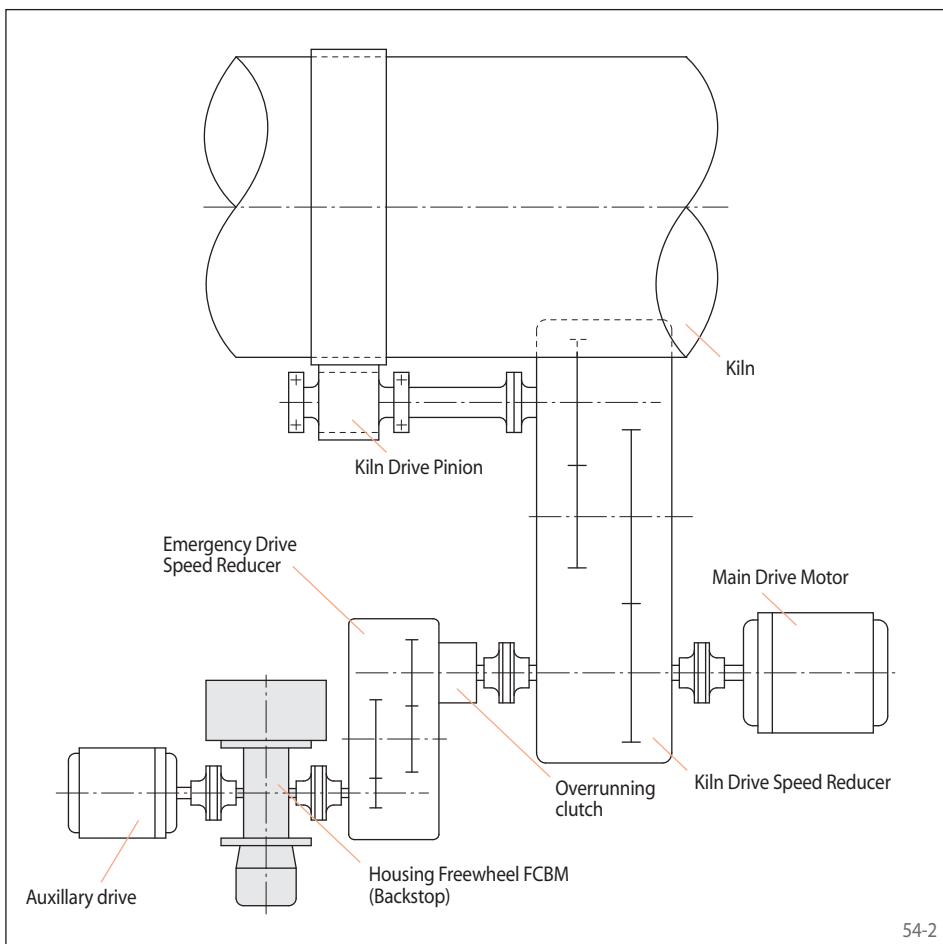
The Housing Freewheels FCBM is a completely enclosed freewheel for stationary arrangement with input and output shaft. It was developed to protect people and machines from injury and damage.

Technical data

- Nominal torque 750 Nm
- Maximum overrunning speed 1600 min⁻¹
- Oil capacity of 2,75 liter
- Weight 190 kg

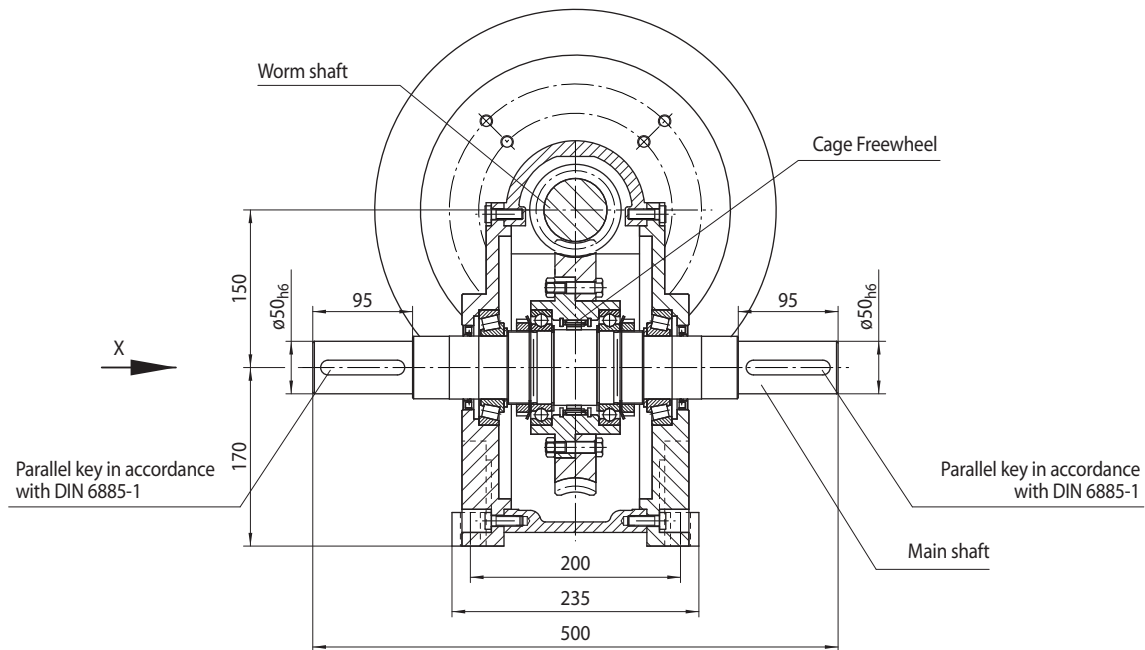
Application example

The Housing Freewheel FCBM is usually arranged in rotary kiln drives between the auxiliary drive and auxiliary gear box, as shown in Fig. 54-2. It makes a controlled reverse rotation of the rotary kiln possible.



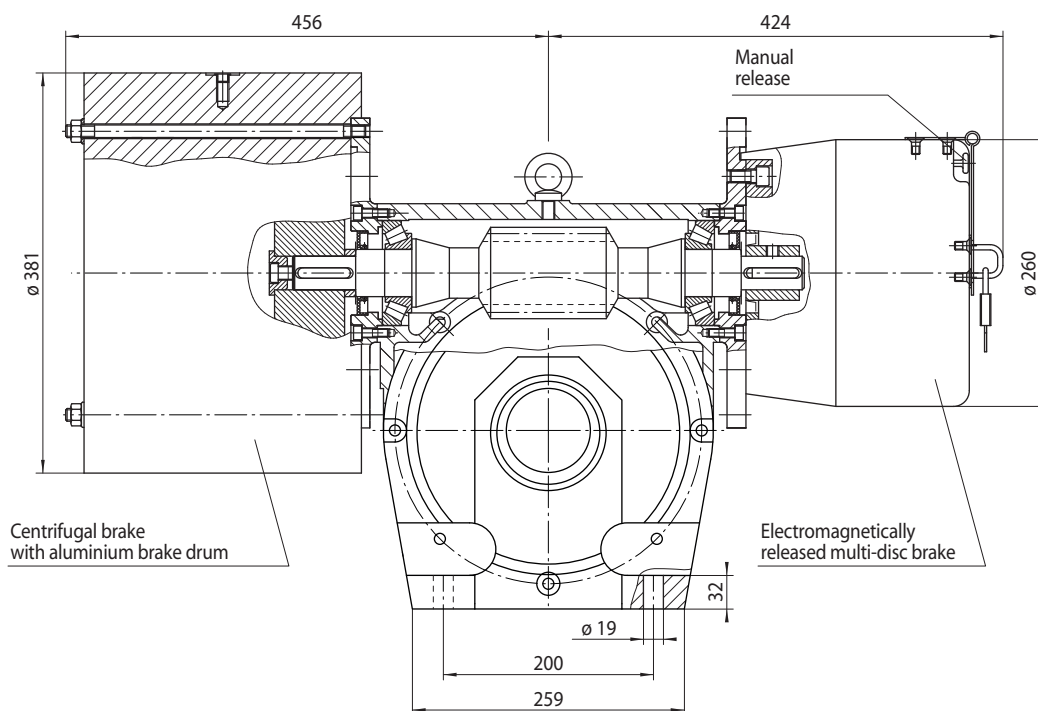
54-2

Backstop for Kiln drives with electromagnetic and manual release function



55-1

View „X“



55-2

Power supply

The following power supplies are available for the electromagnetically released multi-disc brake:

- 230 VAC +/- 10% (207-253 V) at 50 Hz
- 400 VAC +/- 10% (360-440 V) at 50 Hz
- 115 VAC +/- 10% (103-126 V) at 60 Hz

Special voltages can be customised as requested. Please indicate such voltages on the selection sheet on page 114.

Example for ordering

Prior to ordering, please complete the questionnaire on page 114 so that we can check the selection.