

Operating instructions



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Subject to technical changes

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Operating instructions

1.0 Safety information



Before mounting and starting operation read all documents carefully and follow the instructions.

Consider the weight of the chain while you unpack it and set it up. Protect yourself with safety shoes in case the chain falls down or slips off.

The delivered chain may be inserted into the drive housing. In this case the chain is secured against unrolling by wire or cable connector.

Attention: The chain may unroll by its own weight during installation. To avoid this the drive shaft has to be fixed before you remove the safety device (wire, cable connector).

Use caution while handling the unloaded chain. In unloaded condition the chain can buckle and may cause bruises. Wear safety gloves to protect yourself.

Mounting and installation has to be done by qualified personnel only.

Meet the specified location deviation (see next page).

A structural compensation of the tolerances is required if using two parallel chains in a rigid system.

It is the customer's responsibility to protect moving parts from unintentional touch. There is danger of injuries.

In very unclean areas we recommend to use a cover to avoid a blocking of the chain. In case of doubt check with the manufacturer.

Don't change the drive. Changes or modifications may cause danger and the manufacturer doesn't accept any liability for changed or modified drives.

Don't block the drive while operating. This may damage the drive seriously.



For the electrical or hydraulic installation and operation we refer to the concerning paragraphs in the operating instructions of the motor.



Don't overload the drive. The values for stroke forces are stated in the technical description and can't be exceeded. Otherwise the drive may be damaged seriously.

With appearance of wear like a strong bending of the chain or backlash we recommend to change the chain before the breakdown is reached.

2. Safety regulations and permissible use



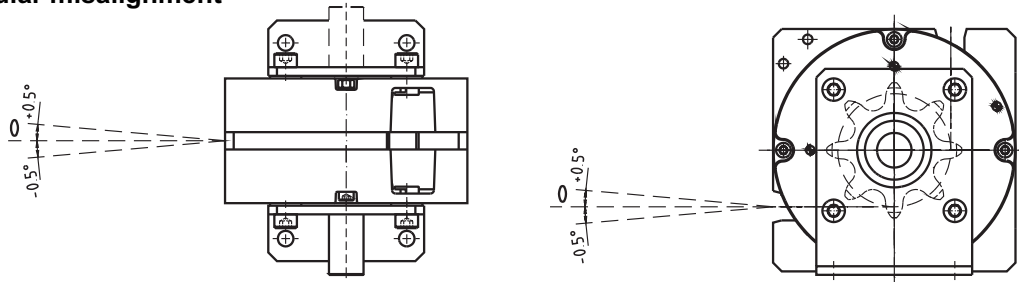
Framo Push-Pull Chains should not be used for applications involving the movement of loads which can endanger working personnel through the operation or system failure. Use of the Push-Pull Chain for personnel transport system is not permissible without prior written approval.

We would refer users to the relevant regulations and recommended practices regarding the provision of guard rails or covers to all moving parts of machines. Furthermore overhead hoist mechanisms for heavy loads using the Push-Pull Chain are not approved.

3. Installation Misalignment

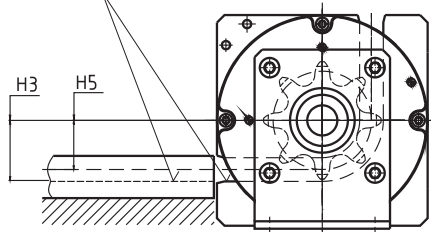
The drive housing has to be installed in accordance with the adjustment tolerances given below to achieve a maximum thrust and a minimum rate of wear. The center line of the LinearChain middle roller to the reaction guide plates has to be especially noted.

Angular misalignment

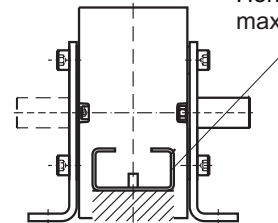


Reaction guide plate

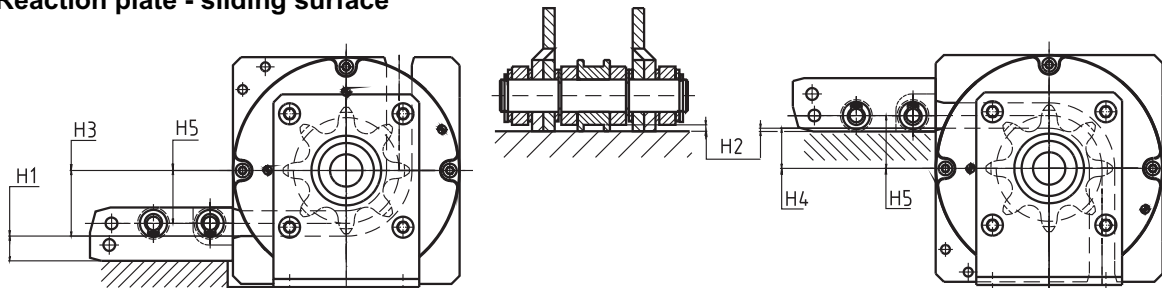
Vertical misalignment
max. 0,5 mm deeper



Horizontal misalignment
max. +/- 0,5 mm



Reaction plate - sliding surface



Kettenteilung	Typ 25	Typ 40	Typ 60
H1	9	18	24
H2	0	2	3
H3	40,5	49,2	75,2
H4	24,8	30,8	44,7
H5	32,7	40	60

4. Lubrication and maintenance

As a consequence of the high grade of materials used and the robust construction of the LinearChain, the only maintenance required is a regular lubrication of the surfaces. The lubrication intervals will depend upon the working criteria and especially the operating frequency and working temperature. It is recommended that all moving parts be inspected regularly for signs of wear. Lubricating oil can be applied evenly across the whole length of the chain using a brush. Standard synthetic lubricating oils such as Mobilith SHC PM from Mobil or similar can be used in most applications. For high duty-rating applications we would recommend using automatic brush lubricators. A standard Teflon spray is suitable too.

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5.0 End of life time

Push chains signal their end of life time by an obvious misalignment of the chain links from the ideal line. You may send the drive to the manufacturer for overhauling by reaching the end of life time. Please pay attention to the appropriate disposal regulations and laws if you want to dispose the drive.