

# standard-duty lift systems

The line of standard-duty lifts is suitable for applications with up to 10 duty cycles per hour. This includes most industrial warehousing applications, most stage and platform lifting applications and many others.

This product line offers lift columns with a **dynamic capacity** of up to 50 000 N and a **static capacity** of up to 100 000 N.

Static capacity is relevant in particular to stage applications. While the dynamic process of lifting puts stress chiefly on the drive elements, the static holding of a load, above all, requires high column stability and axis resistance. For the **ChainLift**, the static and the dynamic capacity are the same, due to the structural properties of the chain. The **LinkLift**, however, allows static loads

up to twice the maximum dynamic load, thanks to its special construction.

Standardly, the **maximum stroke length** is 7 m. Longer strokes can be obtained by guiding the lift columns. Contact SERAPID Engineering for pertinent information.

SERAPID standard-duty lift systems				
	ChainLift 40	ChainLift 60	LinkLift 50	LinkLift 100
<b>pitch of link (mm)</b>	40	60	50	100
<b>max. stroke (m)</b>	1	2	3	7
<b>max. static force (N)</b>	7 500	20 000	30 000	100 000
<b>max. dynamic force (N)</b>	7 500	20 000	15 000	50 000
<b>nominal speed (mm/s)</b>	200	200	200	200

## available options

The following options are available for our standard-duty products:

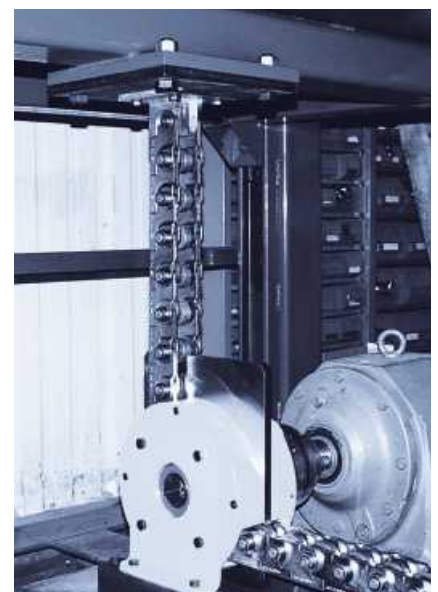
**mounting flange** for gear motor

**looped return** with sprocket and rear-end attachment

**special shaft output** to allow integration of **encoder or CAM switch** by the user

**double output** drive shaft

**special output shaft**, custom design as required

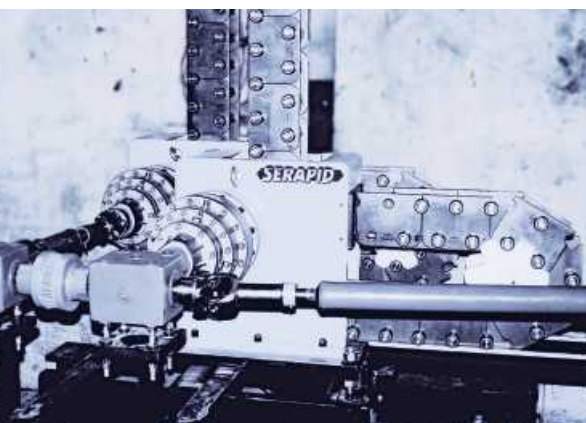
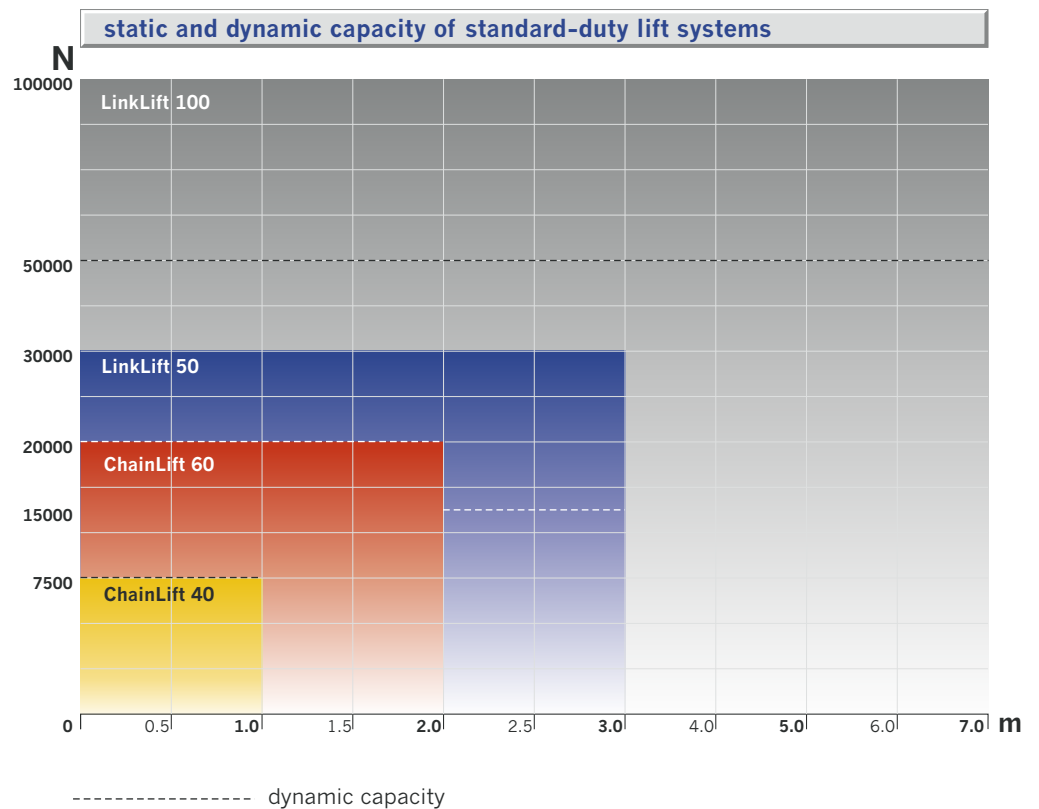


## capacity specifications

The chart below shows the capacities of the standard-duty lifts relative to the stroke height. The corresponding fields represent the recommended application domain for each of the products.

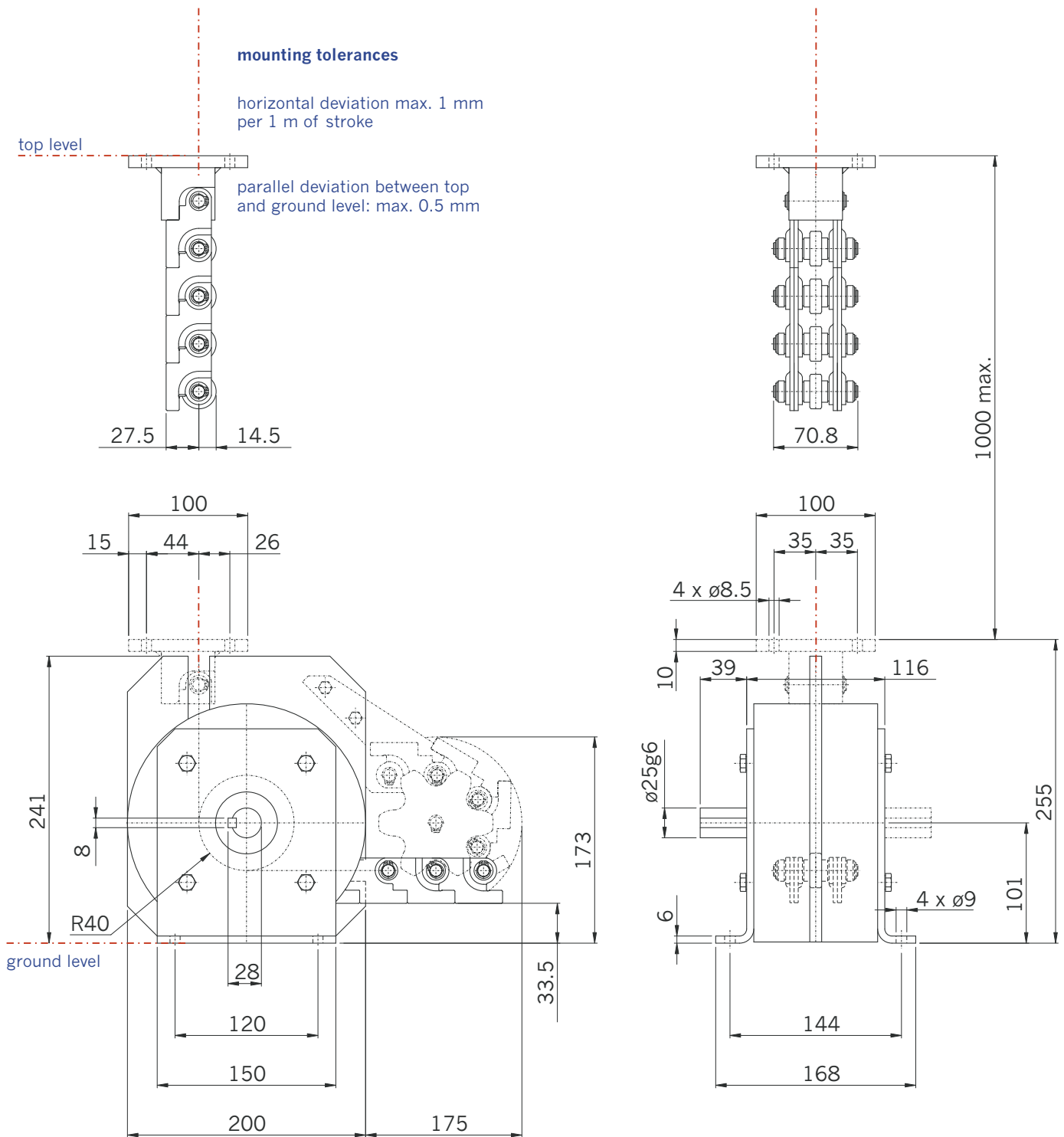
The specifications are given for the **unguided use** of the lifts. Moreover, they are valid only for the nominal speed of 200 mm/s and a maximum of 10 cycles per hour. Also, the capacities can only be guaranteed if the mounting tolerances (see the technical drawings) are observed.

The capacity specifications include security margins according to application-relevant standards.



**If your application does not fall within the specifications, ask SERAPID Engineering for your custom solution.**

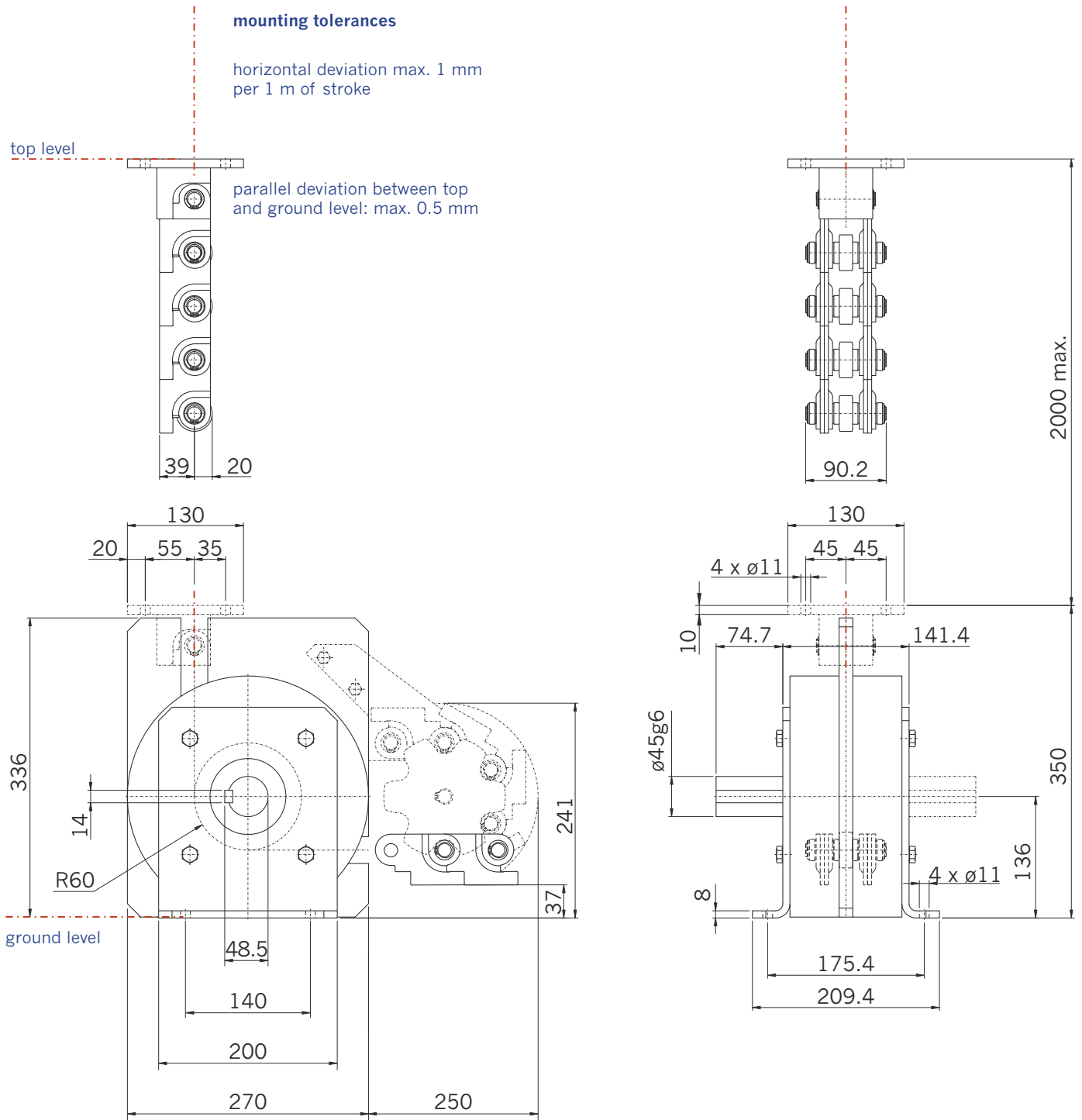
# standard-duty lift systems



all dimensions in mm

## ChainLift 40

pitch of link (mm)	40 (equal to segment radius of drive pinions)
chain weight per m (kg)	7.8
drive housing	cast steel, 90°, extended guide plate, weight 15 kg
max. stroke (m)	1
max. dynamic force (N)	7 500
max. static force (N)	7 500
nominal speed (mm/s)	200

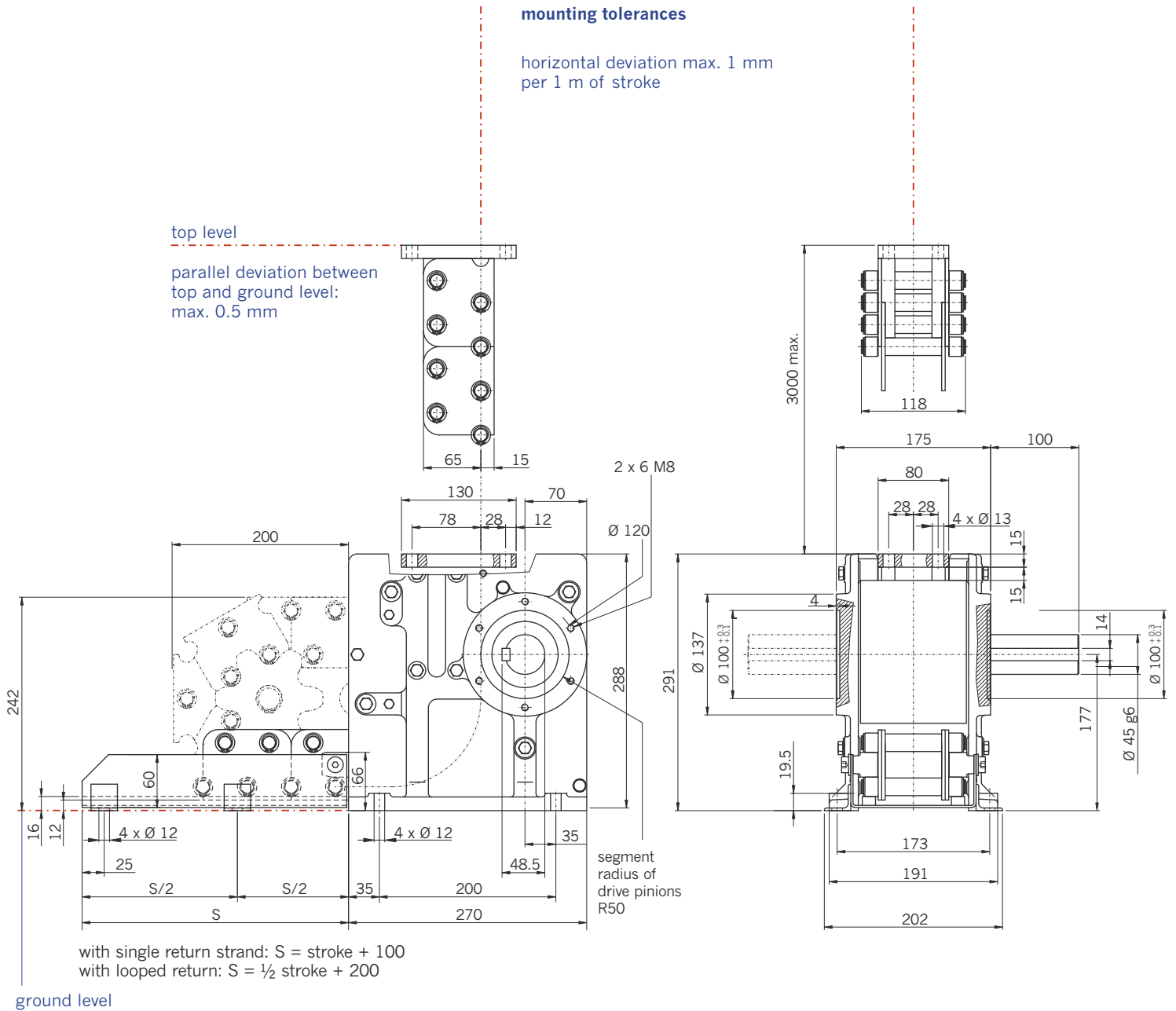


all dimensions in mm

## ChainLift 60

pitch of link (mm)	60 (equal to segment radius of drive pinions)
chain weight per m (kg)	10.5
drive housing	cast steel, 90°, extended guide plate, weight 45 kg
max. stroke (m)	2
max. dynamic force (N)	20000
max. static force (N)	20000
nominal speed (mm/s)	200

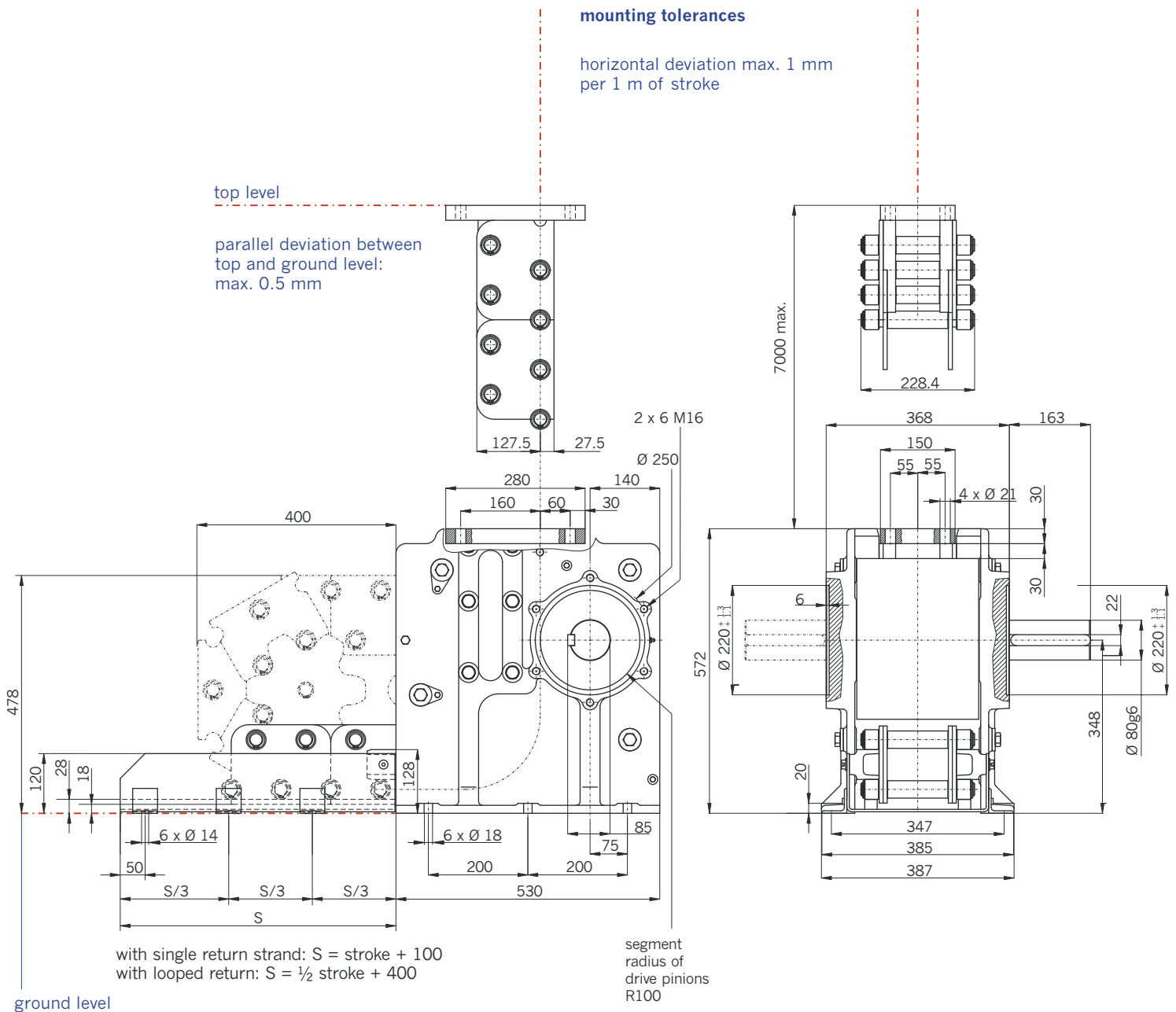
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all dimensions in mm

## LinkLift 50

pitch of link (mm)	50 (equal to segment radius of drive pinions)
chain weight per m (kg)	18
drive housing	cast steel, 90°, lateral guide rails, weight 30 kg
max. stroke (m)	3
max. dynamic force (N)	15 000
max. static force (N)	30 000
nominal speed (mm/s)	200



all dimensions in mm

## LinkLift 100

pitch of link (mm)	100 (equal to segment radius of drive pinions)
chain weight per m (kg)	67
drive housing	cast steel, 90°, lateral guide rails, weight 240 kg
max. stroke (m)	7
max. dynamic force (N)	50 000
max. static force (N)	100 000
nominal speed (mm/s)	200