

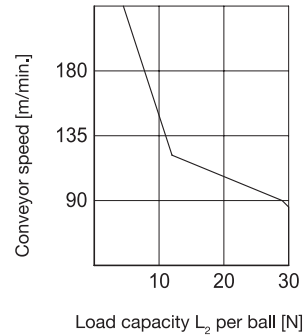
Load Capacity of Individual Components

Roller track assembly with:	Load capacity L_1 per track Carrier rail profile making continuous contact	Load capacity L_2 per individual roller / ball
Conveyor roller track EN 646.1-270-15-PA	13330 N/m	200 N 44.96 lbf
Conveyor roller track EN 646.1-270-27-PA	13330 N/m	360 N 80.93 lbf
Conveyor roller track EN 646.1-270-15-TPU	1333 N/m	20 N 4.50 lbf
Conveyor roller track EN 646.1-270-27-TPU	5550 N/m	150 N 33.72 lbf
Conveyor ball track EN 646.2-270-POM	850 N/m	30 N 6.74 lbf

Within the loads specified in the above table, permanent deformation or deflection of the roller / ball tracks is prevented and proper function is guaranteed.

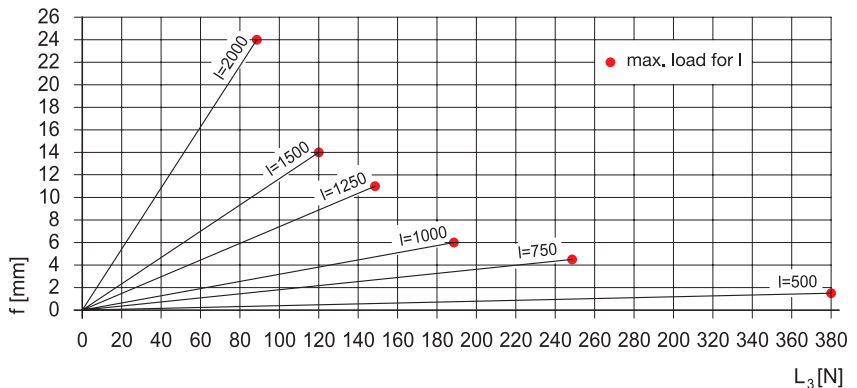
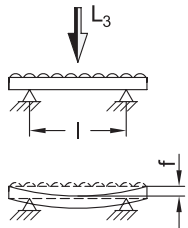
Conveyor Speed

For conveyor ball tracks EN 646.2, conveyor speed must also be taken into account. If the speed is exceeded, the load capacity L_2 / per ball may be compromised.



Load and Deflection

If carrier rail profiles EN 646.3 (→ page 38) rest on two points only, deformation (deflection) under load L_3 must be taken into account.



The diagram shows the different values at which there is neither a permanent deformation „f“ of the carrier rail profiles nor an impairment of the function of the roller track assembly.