

item

Press-information

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New linear guide systems with high load capacity

The latest PS 4-15 linear guide system introduced to the item range of machine building components offers considerable advantages for customised assemblies. Designed for use with the item line 8 profiles, the system comprises a self-contained bearing carriage which is used in combination with a hardened and polished steel guide rail and an anodised aluminium groove profile which is used to clamp the guide rail into position.

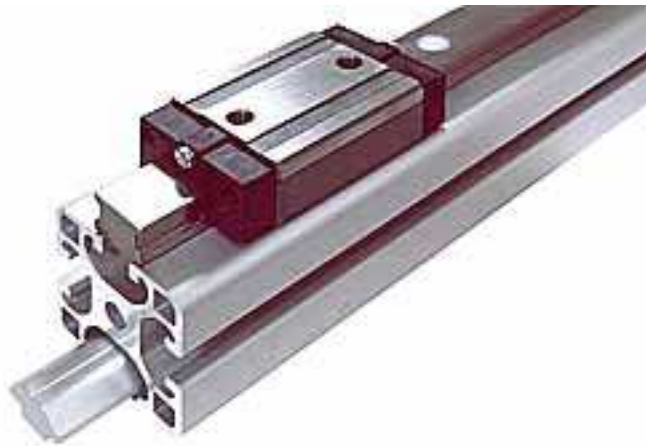
The guide rail incorporates a pre-formed base geometry which ensures that it locates accurately and positively into the standard line 8 profile. It is then fixed securely into position with the pre-tapped groove profile. This ease of assembly, combined with the speed of setting-up and guaranteed linearity, even when using pairs of rails, is unique to the item range. Considerable savings can be achieved by eliminating time consuming procedures normally associated with this type of equipment.

Individual carriages have static and dynamic load factors of 14,500 and 7200N respectively, and the robust design can accommodate out-of-true loading moments of 100 or 150Nm on the x-y-z axes. Each compact carriage has a body size of only 55.6 x 34mm and an above-profile projection of 20mm.

One, two or more linear system carriages can be incorporated onto a single guide rail to give an impressive combined loading capacity. Even greater versatility is achieved by utilising systems incorporating twin guide rails used in parallel, each equipped with bridged carriages to provide suitable support platforms. This can be economically achieved on a single support profile, without resorting to elaborate alignment procedures, due to the built-in geometry and manufacturing accuracy of the item range of equipment.

Each bearing carriage incorporates four polished tracks on which the bearings are in linear rolling contact with the guide rail. Two lubrication nipples are provided, together with replaceable elastic wiper and seal elements fitted to both ends of the carriage to retain lubricant and prevent the ingress of contaminants from the build up of rail debris. Longitudinal wipers are also fitted, giving added protection to the bearings which are re-circulated through the end face reverse units and closed return conduits.

The linear guide rail and associated groove profile are available in lengths up to 2000mm and incorporate pre-drilled holes for assembly. They are clamped together with hexagon socket head cap screws, and flush fitting caps are provided for the guide rail to increase the service life of the end-face wiper elements fitted to the bearing carriages.



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