

# Linear Guideways

## General Information

### 2. Linear Guideway Product Series

In an effort to meet customer's requirement and service needs we offers several different types of guides. We supply the HG series which is suitable for CNC machineries, the EG series for automation industries, the WE series for single axis equipment, the RG series for high rigidity applications, and the miniature series, MGN/MGW, for medical devices and semiconductor equipment. Also for high technology industries, we have developed the QH and QE series with high speed and quiet characteristics.

#### (1) Types & series

Table 2-1 Types & Series

Series	Assembly Height	Load	Square Tap hole	Flange		
				Tap hole	Drilled hole	Combination
HG	High	Heavy Load	HGH-CA	-	-	-
		Super Heavy Load	HGH-HA	-	-	-
	Low	Heavy Load	HGL-CA	HGW-CA	HGW-CB	HGW-CC
		Super Heavy Load	HGL-HA	HGW-HA	HGW-HB	HGW-HC
EG	Low	Medium Load	EGH-SA	EGW-SA	EGW-SB	-
		Heavy Load	EGH-CA	EGW-CA	EGW-CB	-
QH	High	Heavy Load	QHH-CA	-	-	-
		Super Heavy Load	QHH-HA	-	-	-
	Low	Heavy Load	-	QHW-CA	QHW-CB	QHW-CC
		Super Heavy Load	-	QHW-HA	QHW-HB	QHW-HC
QE	Low	Medium Load	QEH-SA	QEW-SA	QEW-SB	-
		Heavy Load	QEH-CA	QEW-CA	QEW-CB	-
WE	Low	Heavy Load	WEH-CA	-	-	WEW-CC
MGN	-	Standard	MGN-C	-	-	-
		Long	MGN-H	-	-	-
MGW	-	Standard	MGW-C	-	-	-
		Long	MGW-H	-	-	-
RG	High	Heavy Load	RGH-CA	-	-	-
		Super Heavy Load	RGH-HA	-	-	-
	Low	Heavy Load	-	-	-	RGW-CC
		Super Heavy Load	-	-	-	RGW-HC

**(2) Accuracy classes**

**Table 2-2 Accuracy Classes**

Series	Assembly Type					Interchangeable Type		
	Normal	High	Precision	Super Precision	Ultra Precision	Normal	High	Precision
	(C)	(H)	(P)	(SP)	(UP)	(C)	(H)	(P)
HG	●	●	●	●	●	●	●	●
EG	●	●	●	●	●	●	●	●
QH	●	●	●	●	●	●	●	●
QE	●	●	●	●	●	●	●	●
WE	●	●	●	●	●	●	●	●
MGN	●	●	●	-	-	●	●	●
MGW	●	●	●	-	-	●	●	●
RG	-	●	●	●	●	-	●	●

**(3) Classification of preload**

**Table 2-3 Preload**

Series	Non-interchangeable Type			Interchangeable Type	
	Light preload (Z0)	Medium Preload (ZA)	Heavy Preload (ZB)	Light Preload (Z0)	Medium Preload (ZA)
HG	●	●	●	●	●
QH	●	●	●	●	●

Series	Non-interchangeable Type			Interchangeable Type	
	Very Light Preload (Z0)	Light Preload (ZA)	Medium Preload (ZB)	Very Light Preload (Z0)	Light Preload (ZA)
EG	●	●	●	●	●
QE	●	●	●	●	●
WE	●	●	●	●	●

Series	Non-interchangeable Type			Interchangeable Type		
	Light Clearance (ZF)	Very Ligh Preload (Z0)	Light Preload (Z1)	Light Clearance (ZF)	Very Ligh Preload (Z0)	Light Preload (Z1)
MGN	●	●	●	●	●	●
MGW	●	●	●	●	●	●

Series	Non-interchangeable Type			Interchangeable Type	
	Light preload (Z0)	Medium Preload (ZA)	Heavy Preload (ZB)	Light Preload (Z0)	Medium Preload (ZA)
RG	●	●	●	●	●