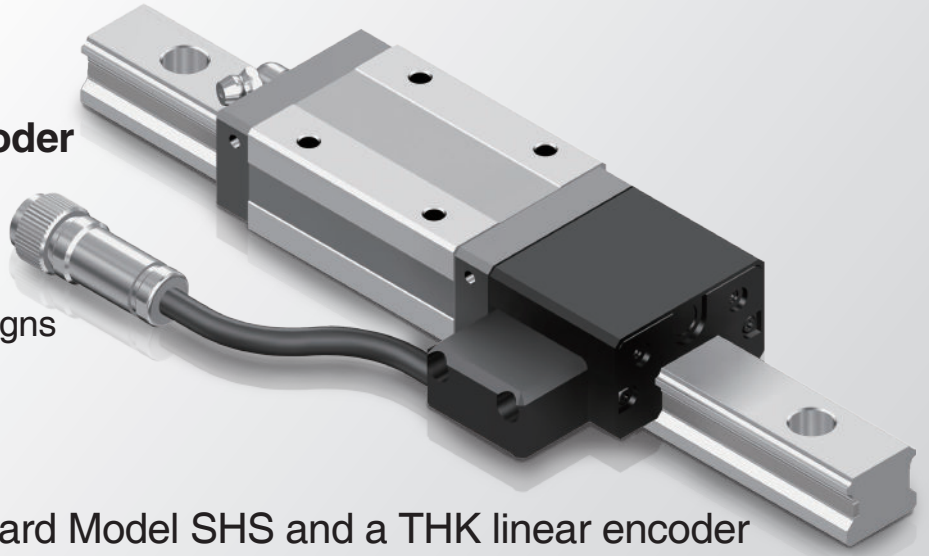


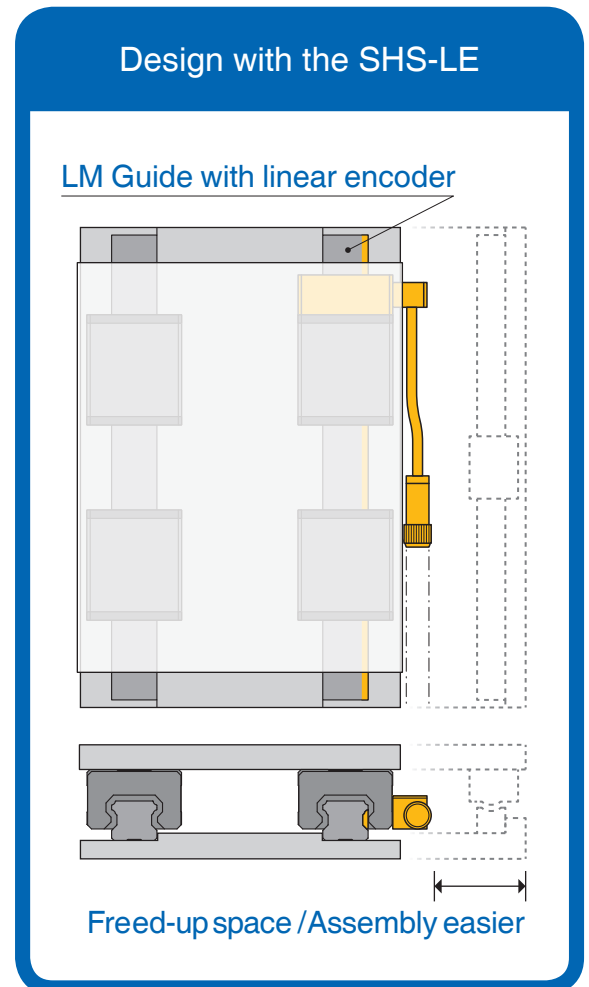
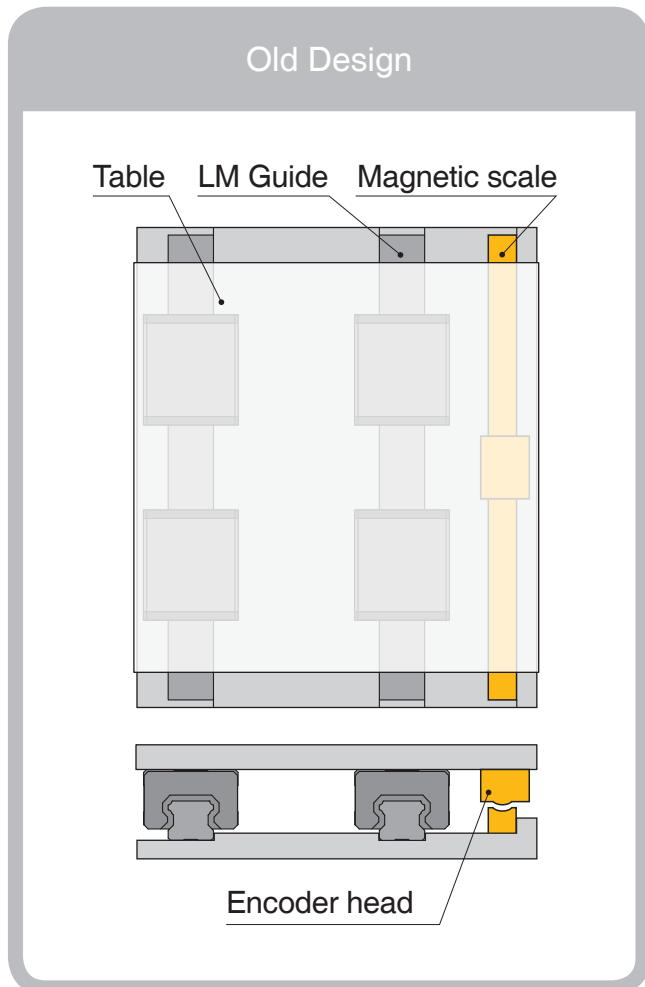
## LM Guide with Linear Encoder

# SHS-LE

Enables Compact Machine Designs



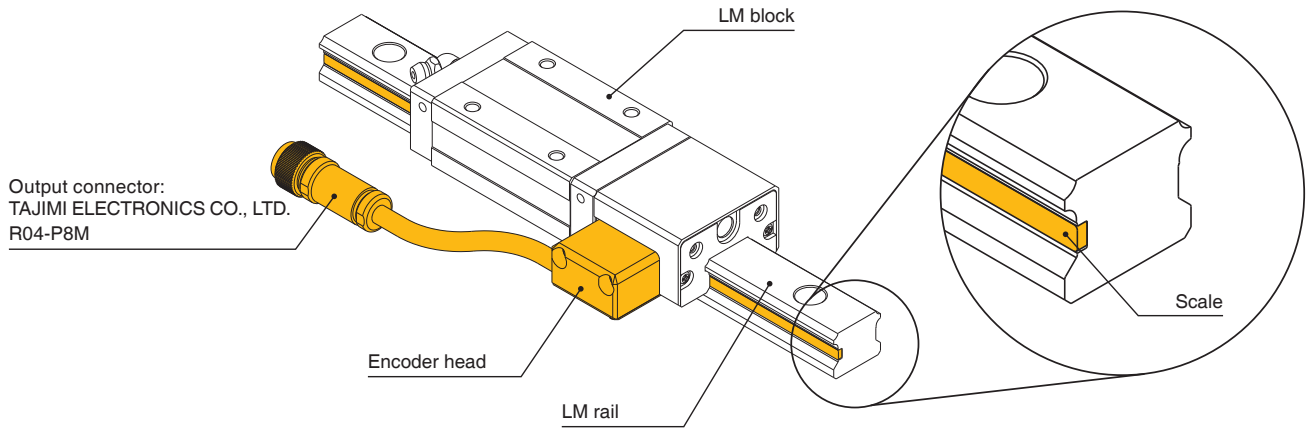
- Combines the global standard Model SHS and a THK linear encoder
- Makes design and assembly easier (see below)
- Enables compact machine designs (see below)



The images are illustrative examples of LM Guide installations.

- Makes design and assembly easier because magnetic scale is not required
- Enables compact machine designs

## Components/Structure



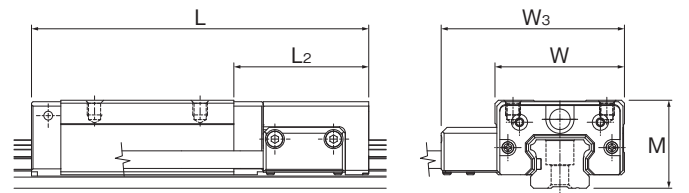
## Shapes of Connector and Pin assignment

Pin assignment		Pin signal	
Encoder	Extension cable (output side)	Encoder	Extension cable (output side)
A	1	A=+5V	2=SG
B	2	B=PA	5=/PB
C	3	C=/PA	6=/PA
D	4	D=SG	7=+5V
E	5	E=PB	8=+5V
F	6	F=/PB	9=SG
G	7	G=—	13=PB
H	8	H=FG	14=PA

Round connector 8-pin

D-Sub 15 pin

## Dimensions/Lineup



Unit: mm

## Linear Encoder Specifications

Encoder	Incremental magnetic encoder
Resolution(μm)	1/5/10
Positioning repeatability	± Resolution or less
Power supply	5V ± 5%
Output	Incremental A-B phase differential output EIA-422 line driver
Encoder head protection rating	IP67
Cable length (mm)	500 (extension cables are available)
Standard compliance	CE

Model No.		Height M	Width		Length	
			W	W <sub>3</sub>	L	L <sub>2</sub>
SHS20LE	C (LC)	30	63	72	115(134)	46
	V (LV)	30	44	62.5	115(134)	46
SHS25LE	C (LC)	36	70	76.3	129(146)	47.5
	R (LR)	40	48	65.3	129(146)	47.5
	V (LV)	36	48	65.3	129(146)	47.5
SHS30LE	C (LC)	42	90	88.3	143(168)	50
	R (LR)	45	60	73.3	143(168)	50
	V (LV)	42	60	73.3	143(168)	50
SHS35LE	C (LC)	48	100	96	162(192)	54.5
	R (LR)	55	70	81	162(192)	54.5
	V (LV)	48	70	81	162(192)	54.5
SHS45LE	C (LC)	60	120	111.3	180(214)	57
	R (LR)	70	86	94.3	180(214)	57
	V (LV)	60	86	94.3	180(214)	57

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