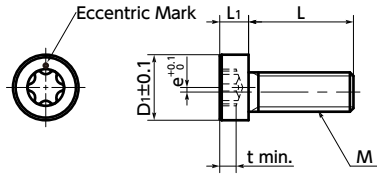


SLEC-A Clamping Screws with Eccentric Head

WEB Selection Tool WEB CAD Download



● Material/Finish

RoHS Compliant

	SLEC-A	SLEC-A-EL
Main Body	SCM435 Ferroferric Oxide Coating	SCM435 Electroless Nickel Plating
Strength Class	10.9	10.9

*The hexalobular shape is prescribed by JIS B 1015 : 2008 (ISO 10664 : 2005) "Hexalobular internal driving feature for bolts and screws".

SLEC-A



SLEC-A-EL

- When the screw is tightened, the workpiece is strongly clamped by the head, which is decentered from the shaft center of the screw. The wedging effect creates a large clamping force with a low tightening torque.
- The screws has a hexalobular socket* that can withstand a high tightening torque. → P.712
- Install and remove by using **SKX** Special Key. → P.715
- For fixing linear guideway rails.
- **SLEC-A-EL** is an electroless nickel (EN) plating type.
For applications that require corrosion resistance.
- Also, **SLEC-B** Clamping Screw with Eccentric Head, which has a guide section below the neck is available. → P.696
- Application

Fixing linear guideway rails, workpieces, and tools

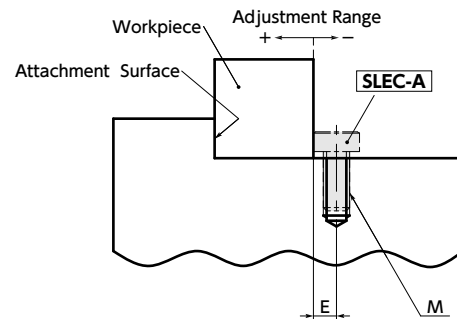
Unit : mm

SLEC-A Ferroferric oxide film	SLEC-A-EL Electroless nickel plating	Common dimensions										Qty per pack
Part Number	Part Number	M	L	D1	L1	e	Applicable wrench	Hexalobular Socket No.	t	Mass (g)		
SLEC-M3-A	SLEC-M3-A-EL	M3	6	6.8	2.5	0.4	SKX-10	10	1	0.7	1	
SLEC-M4-A	SLEC-M4-A-EL	M4	8	7	3	0.4	SKX-15	15	1.2	1.6	1	
SLEC-M5-A	SLEC-M5-A-EL	M5	10	8.5	4	0.4	SKX-20	20	1.5	2.6	1	
SLEC-M6-A	SLEC-M6-A-EL	M6	12	10	4	0.5	SKX-25	25	2	5.1	1	
SLEC-M8-A	SLEC-M8-A-EL	M8	16	13	5	0.8	SKX-30	30	2.5	11	1	
SLEC-M10-A	SLEC-M10-A-EL	M10	20	16	7	1	SKX-40	40	3	22	1	
SLEC-M12-A	SLEC-M12-A-EL	M12	24	18	8	1	SKX-45	45	3.5	32	1	

● Installation Dimensions

Unit : mm

Part Number	Part Number	E	M	Adjustment Range min. / max.
SLEC-M3-A	SLEC-M3-A-EL	3.1 ^{+0.3} ₀	M3	-0.1 / 0.7
SLEC-M4-A	SLEC-M4-A-EL	3.15 ^{+0.3} ₀	M4	-0.05 / 0.75
SLEC-M5-A	SLEC-M5-A-EL	3.9 ^{+0.3} ₀	M5	-0.05 / 0.75
SLEC-M6-A	SLEC-M6-A-EL	4.65 ^{+0.3} ₀	M6	-0.15 / 0.85
SLEC-M8-A	SLEC-M8-A-EL	6.05 ^{+0.5} ₀	M8	-0.35 / 1.25
SLEC-M10-A	SLEC-M10-A-EL	7.5 ^{+0.5} ₀	M10	-0.5 / 1.5
SLEC-M12-A	SLEC-M12-A-EL	8.5 ^{+0.5} ₀	M12	-0.5 / 1.5



● Installation Method

- ① Screw the clamping screws with eccentric head into the screw holes until the head bearing surface lightly touches the surface **Diagram 1**. At this time, the positions of the eccentric marks do not have to be aligned.
- ② Loosen the clamping screws with eccentric head so that the eccentric marks reach the position in **Diagram 2**.
- ③ Loosen the clamping screws with eccentric head further so that the eccentric marks reach the position in **Diagram 3**.
- ④ With the eccentric marks at the position in the **Diagram 3**, insert the workpiece you wish to secure between the clamping screws with eccentric head and the attachment surface.
- ⑤ Tighten the clamping screws with eccentric head by clockwise turn. The heads press the workpiece into the attachment surface and secure the workpiece **Diagram 4**.

Diagram 1

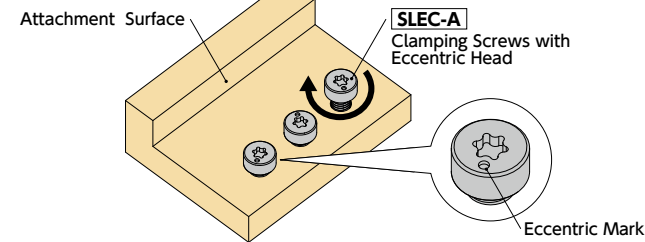


Diagram 2

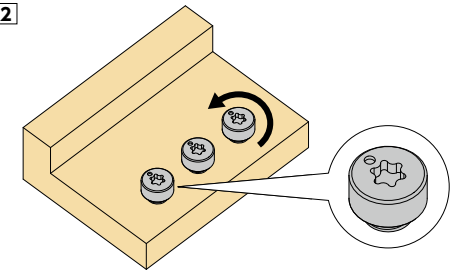


Diagram 3

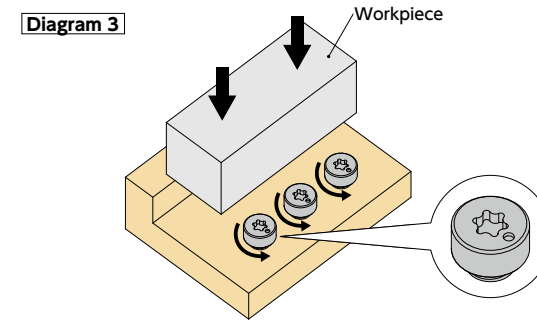
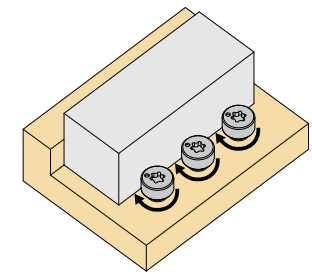
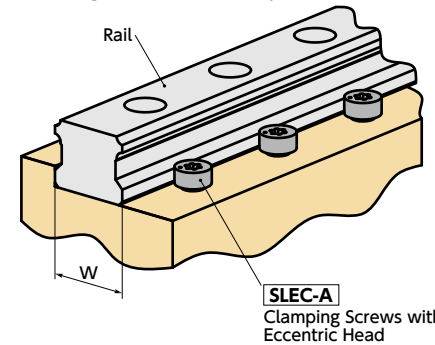


Diagram 4



● Usage example

Fixing Linear Guideway Rails



● Recommended size of linear guideway rail Unit : mm

Nominal of Rail	Rail Width W	with Clamping Screws with Eccentric Head	
#9	9	SLEC-M3-A	SLEC-M4-A
#12	12	SLEC-M3-A	SLEC-M4-A
#15	15	SLEC-M3-A	SLEC-M4-A
#20	20	SLEC-M4-A	SLEC-M5-A
#25	23	SLEC-M5-A	SLEC-M6-A
#30	28	SLEC-M6-A	SLEC-M8-A
#35	34	SLEC-M8-A	SLEC-M10-A
#45	45	SLEC-M10-A	SLEC-M12-A
#55	53	SLEC-M12-A	

● Part number specification

SLEC-M6-A-EL

1 Individual Sales → P.794 1 Cleanroom Wash & Packaging → P.792 1 Screw Length Adjustment → P.796 1 Vibration Resistant → P.795 1 Modification process for captive use → P.791
1 unit in 1 bag Available / Add'l charge Not Available Not Available Not Available