

ES-Gripper

I-PEX Torque Sensor ESTORQ® built-in smart gripper for inserting connectors



STANDARD TYPE



VERTICAL TYPE



OMNIDIRECTIONAL TYPE



FINE CONTROL DEVICE ASS'Y

ES-Gripper® Body Specifications

Body Type \ Items	Floating Direction	Center Lock Mechanism	Recommended Connector
STANDARD TYPE	X + θ	-	FPC/FFC 
VERTICAL TYPE	X + θ	-	Wire-to-Board 
OMNIDIRECTIONAL TYPE	X + Y + θ	-	Board-to-Board 
FINE CONTROL DEVICE ASS'Y	X + θ	○*	FPC/FFC 
	X + Y + θ	○*	Board-to-Board 



* This mechanism locks the body by returning it to its original position by supplying air to the floating unit. By locking at the center, stable operation is possible even when transporting.

ES-Gripper® Attachment

FPC/FFC , Board-to-Board , RF connectors

Wire-to-Board connectors

Example of ES-Gripper® with an attachment



Contact us regarding compatibility with connectors made by other companies. ES-Gripper® attachments can be customized.

Built-in capacitance type torque sensor ESTORQ®

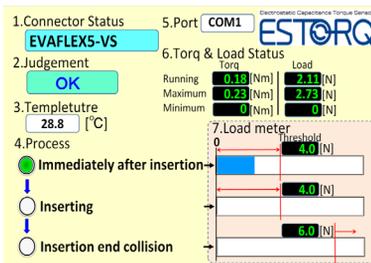
Items	Specification
Measurable torque	5 Nm
Power supply	DC 5 V
Current consumption	120 mA Max.
Operating temp. limit	0 to 80°C (Non-condensing)
Output form	RS422
Baud rate	307.2 kbps
Frequency response	5 kHz

Capacitance-type torque sensor can detect only torque by canceling eccentricity and falling due to torsional deformation.

ESTORQ



Traceability



The built-in torque sensor can detect the torque at the start of connector insertion, when mating is completed, and when pulling is confirmed. The torque value data can be used as part of traceability.

Alignment correction function installed

The alignment correction function can absorb the positional deviation between the pitch direction and the theta direction when inserting the connector.

Inquiry

Check out our demonstration videos on I-PEX Official YouTube channel.



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