

What is SPIRAL Track?

SPIRAL Track is mechanical measuring instrument equipped less than 1% of nonlinearity accuracy with high performance of tracking ability due to backlash “zero” top design, consisting of 4 to 6 cylinders sleeve with spiral grooves.

All sleeves expand and contract measuring the displacement of thorax and abdomen of dummy by angle sensors.

In the base of sleeves, 3 sets of rotary angle sensors (x-axis, y-axis, z-axis) are assembled and detect even oblique displacement as well.

Feature:

- Mechanical construction makes high reliability as measuring tool,
- Nonlinearity is less than 1% performance makes high accuracy of sensor
- Backlash “zero” makes high tracking ability,
- Expansion and contraction structure makes wide ability of usage,

Field of application:

- WorldSID 50
- Thor 50
- Q dummy series
- RS dummy
- MATD dummy

International patented products:

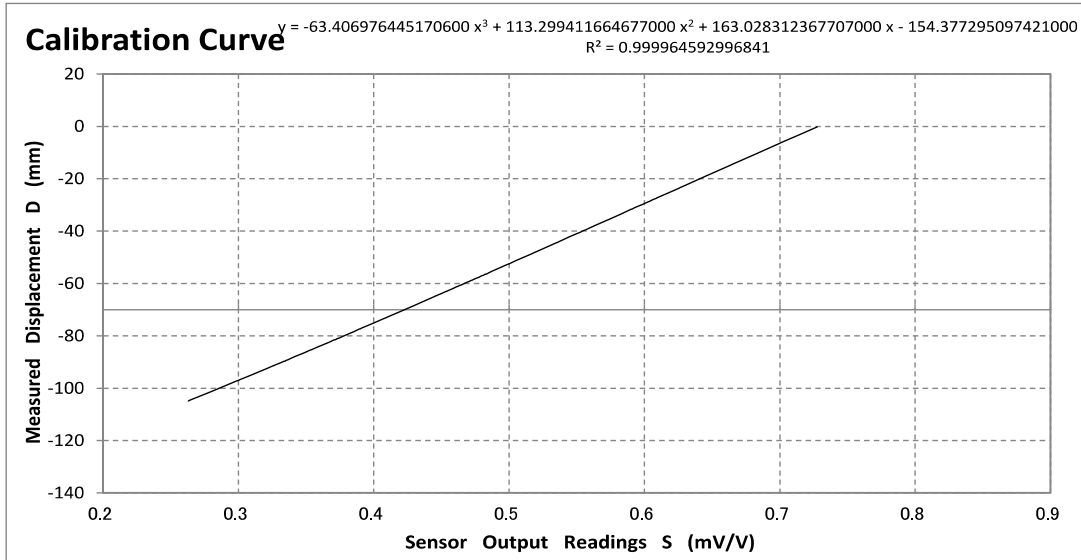
JAPAN, US, Europe, China, India, Korea, Taiwan

Spiral Tracc Calibration Values

Model No. LH.UPR
Serial No. 20190328-C1

Excitation:10V 105mm

Calibration Points (Xc)	Measured Displacement D (mm)	Sensor Output Readings S (mV/V)	Actual Displacement (mm)	Error (mm)	Linearity (%F.S.)
0	0.00	0.728	-0.18	0.178	0.255
5	-5.00	0.707	-4.96	-0.040	0.058
10	-10.00	0.685	-9.99	-0.011	0.016
15	-15.00	0.663	-14.94	-0.057	0.082
20	-20.00	0.642	-19.86	-0.138	0.197
25	-25.00	0.620	-24.86	-0.141	0.201
30	-30.00	0.598	-29.93	-0.071	0.101
35	-35.00	0.576	-35.00	0.000	0.000
40	-40.00	0.554	-40.02	0.021	0.031
45	-45.00	0.533	-44.94	-0.057	0.081
50	-50.00	0.510	-50.22	0.221	0.315
55	-55.00	0.488	-55.18	0.184	0.263
60	-60.00	0.466	-60.24	0.242	0.345
65	-65.00	0.444	-65.14	0.139	0.199
70	-70.00	0.423	-69.99	-0.012	0.017
75	-75.00	0.401	-74.90	-0.105	0.150
80	-80.00	0.379	-79.79	-0.211	0.301
85	-85.00	0.357	-84.71	-0.291	0.416
90	-90.00	0.334	-89.65	-0.351	0.501
95	-95.00	0.308	-95.27	0.269	0.385
100	-100.00	0.284	-100.41	0.413	0.589
105	-105.00	0.263	-104.82	-0.182	0.261
Output		-0.465	Max Non-Linearity		0.589



検査年月日 (Date of check) : 2019/03/28
 温度 (Temperature) : 21.1°C
 湿度 (Humidity) : 43.8%

測定 (Measurment) : K.Kamitomai

承認 (Approved) : Y.Kochi

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