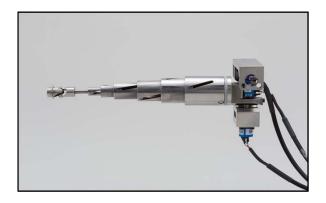
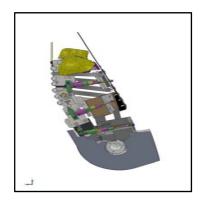
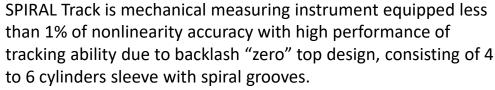
SPIRAL Track SPIRAL









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.

Advantage: Non Linearity less than 1%

No backlash No time delay

Mechanical mesurment system

Applicable dummies: THOR 50, WorldSID 50,

Q series Dummy, RS-Dummy, etc.

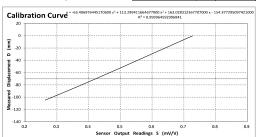
International Patent; USA, EU, INDIA, China, Korea, Taiwan,

Japan



Spiral Tracc Calibration Values

Serial No.	20190328-C1			Excitation:10V	105mm
Calibration	Measured	Sensor Output	Actual		
Points	Displacement D	Readings	Displacement	Error	Linearity
(Xc)	(mm)	S (mV/V)	(mm)	(mm)	(%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



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