

DIK-7401 : Prostrate Tester

The DIK-7401 is used to measure the **resistance of the crop stem/plant against an applied pushing force**. The operator places the tester against the plant stem and applies force to evaluate how much load the plant can withstand. Prostrate tester measures how much the stem of the plant endures against the wind of storm. By pushing only the stem of the plant with the tester, you know easily how the stem can endure against the load.



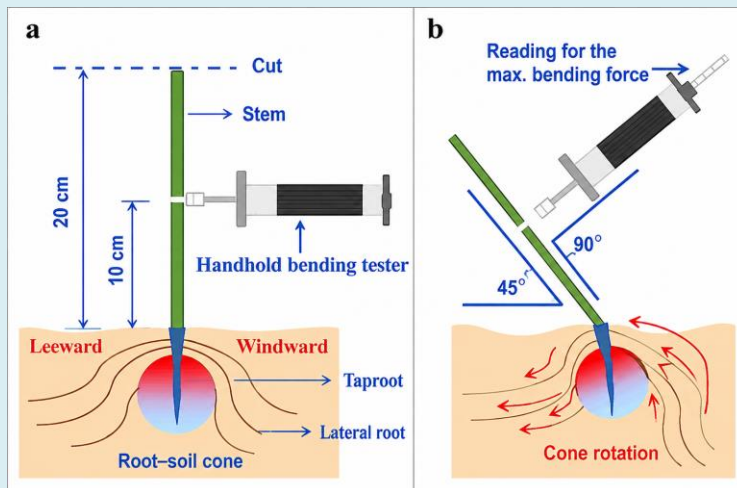
Package Includes:-

- 1 x Main Unit (Prostrate Tester)
- 3 x Springs (White, Yellow, Red)
- 1 x User manual
- 1 x Case

Typical Applications can be useful for:-

- Rice breeding programs
- Agricultural research
- Research related to wind damage and crop stability
- Evaluation of strong and weak crop stems
- Evaluation of lodging-resistant crop varieties
- Comparison of stem strength between varieties
- Fertilizer and crop-management studies

- 1. Main Purpose:** During strong wind, heavy rain, or typhoons, crop plants especially rice may bend or collapse. This is called Lodging.
- 2. Key Features**
 - Portable and lightweight – suitable for field use.
 - Simple manual operation – no complicated electronic setup.
 - Three interchangeable springs for different force ranges.
 - Suitable for evaluating crop stem strength and lodging resistance.
 - Includes attachments for different planting arrangements.
 - Made using durable materials including aluminium, resin, and stainless steel, No electrical power supply or battery is specified for the instrument.
 - Compact design for convenient agricultural field measurements.



Component & Specifications

Main unit Dimensions : $\Phi 40 \times 205\text{mm}$

Material : Aluminium, resin and stainless steel

Attachment for rice stock

Material : Aluminium and resin

Dimensions : $W70 \times D80 \times H10\text{mm}$

Attachment for rice stripe

Dimensions : $W130 \times D60 \times H10\text{mm}$

Strength of Springs (Material :Stainless Steel)

(i) White : 9.8N/40mm

(ii) Yellow : 19.6N/40mm

(iii) Red : 39.2N/40mm

Total weight : Approx.650g

Indian Distributor

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DIK-7401 Springs Strength

9.8N/40mm (White Spring)

mm	kgf	N	mm	kgf	N
1	0.025	0.245	21	0.525	5.145
2	0.050	0.49	22	0.550	5.39
3	0.075	0.735	23	0.575	5.635
4	0.100	0.98	24	0.600	5.88
5	0.125	1.225	25	0.625	6.125
6	0.150	1.47	26	0.650	6.37
7	0.175	1.715	27	0.675	6.615
8	0.200	1.96	28	0.700	6.86
9	0.225	2.205	29	0.725	7.105
10	0.250	2.45	30	0.749	7.35
11	0.275	2.695	31	0.774	7.595
12	0.300	2.94	32	0.799	7.84
13	0.325	3.185	33	0.824	8.085
14	0.350	3.43	34	0.849	8.33
15	0.375	3.675	35	0.874	8.575
16	0.400	3.92	36	0.899	8.82
17	0.425	4.165	37	0.924	9.065
18	0.450	4.41	38	0.949	9.31
19	0.475	4.655	39	0.974	9.555
20	0.500	4.9	40	0.999	9.8

19.6/40mm (Yellow Spring)

mm	kgf	N	mm	kgf	N
1	0.050	0.49	21	1.049	10.29
2	0.100	0.98	22	1.099	10.78
3	0.150	1.47	23	1.149	11.27
4	0.200	1.96	24	1.199	11.76
5	0.250	2.45	25	1.249	12.25
6	0.300	2.94	26	1.299	12.74
7	0.350	3.43	27	1.349	13.23
8	0.400	3.92	28	1.399	13.72
9	0.450	4.41	29	1.449	14.21
10	0.500	4.9	30	1.499	14.7
11	0.550	5.39	31	1.549	15.19
12	0.600	5.88	32	1.599	15.68
13	0.650	6.37	33	1.649	16.17
14	0.700	6.86	34	1.699	16.66
15	0.749	7.35	35	1.749	17.15
16	0.799	7.84	36	1.799	17.64
17	0.849	8.33	37	1.849	18.13
18	0.899	8.82	38	1.899	18.62
19	0.949	9.31	39	1.949	19.11
20	0.999	9.8	40	1.999	19.6

39.2/40mm (Red Spring)

mm	kgf	N	mm	kgf	N
1	0.100	0.98	21	2.099	20.58
2	0.200	1.96	22	2.199	21.56
3	0.300	2.94	23	2.298	22.54
4	0.400	3.92	24	2.398	23.52
5	0.500	4.9	25	2.498	24.5
6	0.600	5.88	26	2.598	25.48
7	0.700	6.86	27	2.698	26.46
8	0.799	7.84	28	2.798	27.44
9	0.899	8.82	29	2.898	28.42
10	0.999	9.8	30	2.998	29.4
11	1.099	10.78	31	3.098	30.38
12	1.199	11.76	32	3.198	31.36
13	1.299	12.74	33	3.298	32.34
14	1.399	13.72	34	3.398	33.32
15	1.499	14.7	35	3.498	34.3
16	1.599	15.68	36	3.598	35.28
17	1.699	16.66	37	3.697	36.26
18	1.799	17.64	38	3.797	37.24
19	1.899	18.62	39	3.897	38.22
20	1.999	19.6	40	3.997	39.2

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