

Tripod Construction Details

Rev 3

Manufacturer: Tripod Name: Tripod Identifier: Options			Libec RT30B RT30B	Manfrotto 546B 546B	Sachtler Speedlock 75CF 4588	Vinten 2 Stage Pozi-Loc 3819-3	
1	Design Type	Twin tube, single tube, I-beam, Other	Twin Tube	Twin Tube	Twin Tube	Twin Tube	
2	No of Stages	No.	3	3	3	3	
3	Format	Top stage	No. Tubes, Other	2	2	2	
		2nd Stage	No. Tubes, Other	2	2	1	
		3rd stage	No. Tubes, Other	1	1	1	
		4th Stage	No. Tubes, Other	-	-	-	
4	Construction Materials	Receiver	Specify	Aluminium	Aluminium?	HD Plastic	Composite Plastic
		Legs	Specify	Aluminium	Aluminium	Carbon Fibre	Aluminium
		Locks	Specify	HD Plastic	HD Plastic	HD Plastic & Carbon fibre	Composite Plastic
5	Total Leg Length (from hinge pin to bottom of foot)		cm/ins	151cm	158cm	145.5cm	158cm
6	Stage Details						
	Top Stage						
	Tube Spacing (c-c)* / I-Beam Width		mm/ins	80mm	90mm	45mm	90mm
	Tube Diameter / I-Beam Depth		mm/ins	16 mm x 14 mm Ellipse	16mm	16mm	16mm
	2nd Stage						
	Tube Spacing (c-c)* / I-Beam Width		mm/ins	40mm	53mm	-	45mm
	Tube Diameter / I-Beam Depth		mm/ins	16 mm x 14 mm Ellipse	16mm	24mm	16mm
	3rd Stage						
	Tube Spacing (c-c)* / I-Beam Width		mm/ins	-	-	-	-
	Tube Diameter / I-Beam Depth		mm/ins	22mm	25mm	19.6mm	26.4 x 16.4 mm
	4th Stage						
	Tube Spacing (c-c)* / I-Beam Width		mm/ins	-	-	-	-
	Tube Diameter / I-Beam Depth		mm/ins	-	-	-	-
	Bottom Tube Cross Section		Specify	Circular	Circular	Circular	Ovoid

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Options											
7	Leg Angle (90° is Vertical, 0° is Horizontal)										
	Mid Level Spreader	Retracted	degrees	77°		74°		75°		70°	
		Extended	degrees	70°		60°		62°		55°	
	Ground Level Spreader	Retracted	degrees	Not Tested		Not Tested		Not Tested		Not Tested	
		Extended	degrees	Not Tested		Not Tested		Not Tested		Not Tested	
8	Tripod Stress Scores (see explanation below)										
	Rotational Windup(Twist)/Head Warp										
	Mid Level Spreader - Extended			Twist		Warp		Twist		Warp	
	Stress Bar Load		.1kg mm	6	4.5	3.5	5	5.5	5	0	5
			.3kg mm	16.5	15	7.5	11.5	16	20	0	12
			.5kg mm	30	23	13	20	25	27	4.5	21
			.7kg mm	39.5	32	17	28.5	35.5	31	8	29
			.9kg mm	50.5	40	21.5	35	45	40	11	35
			.95kg mm	56	45	24.5	40	56	46	14	40.5
	**Score (based on .95kg figure)		No.	14.50	15.50	17.55	16.00	14.4	15.4	18.6	15.95
	Mid Level Spreader - Retracted										
	Stress Bar Load		.1kg mm	9.5	5	5.5	3	15	5	5	5
			.3kg mm	31.5	11	18.5	10	40	20	15	12
			.5kg mm	55	22	34	17.5	75	27	25	21
			.7kg mm	79	31	47.5	26	95	31	39	29
			.9kg mm	95	45.5	60.5	34	128	40	40.5	35
			.95kg mm	106	56.5	71	38	137	46	45.5	40.5
	**Score (based on .95kg figure)		No.	9.40	14.35	12.90	16.2	6.3	15.4	15.45	15.95

* (c-c) - Measured centre to centre

** Measured deflection deducted from 20.

Test Method

These figures are the measured deflection of a laser beam, the emitter of which is situated on the tripod vertical centre line, aimed at a target 23.5 metres away.

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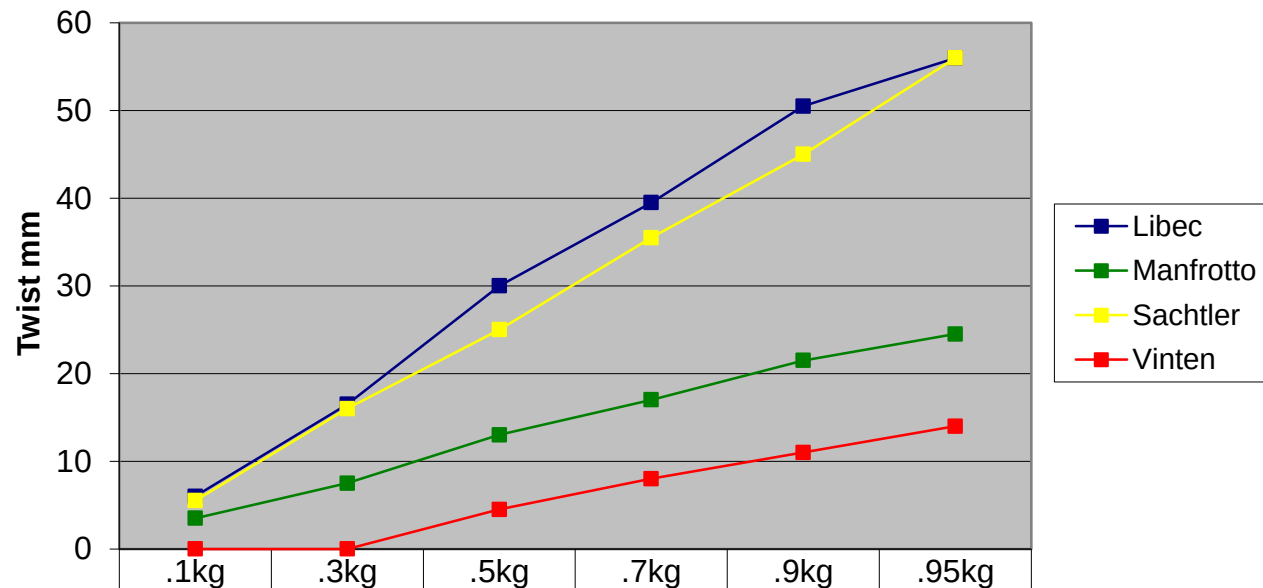
Libec
RT30B
RT30B

Manfrotto
546B
546B

Sachtler
Speedlock 75CF
4588

Vinten
2 Stage Pozi-Loc
3819-3

Tripod Stress Scores - Mid Level Spreader Extended - Twist /Windup



	.1kg	.3kg	.5kg	.7kg	.9kg	.95kg
Libec	6	16.5	30	39.5	50.5	56
Manfrotto	3.5	7.5	13	17	21.5	24.5
Sachtler	5.5	16	25	35.5	45	56
Vinten	0	0	4.5	8	11	14

Test Weight Applied

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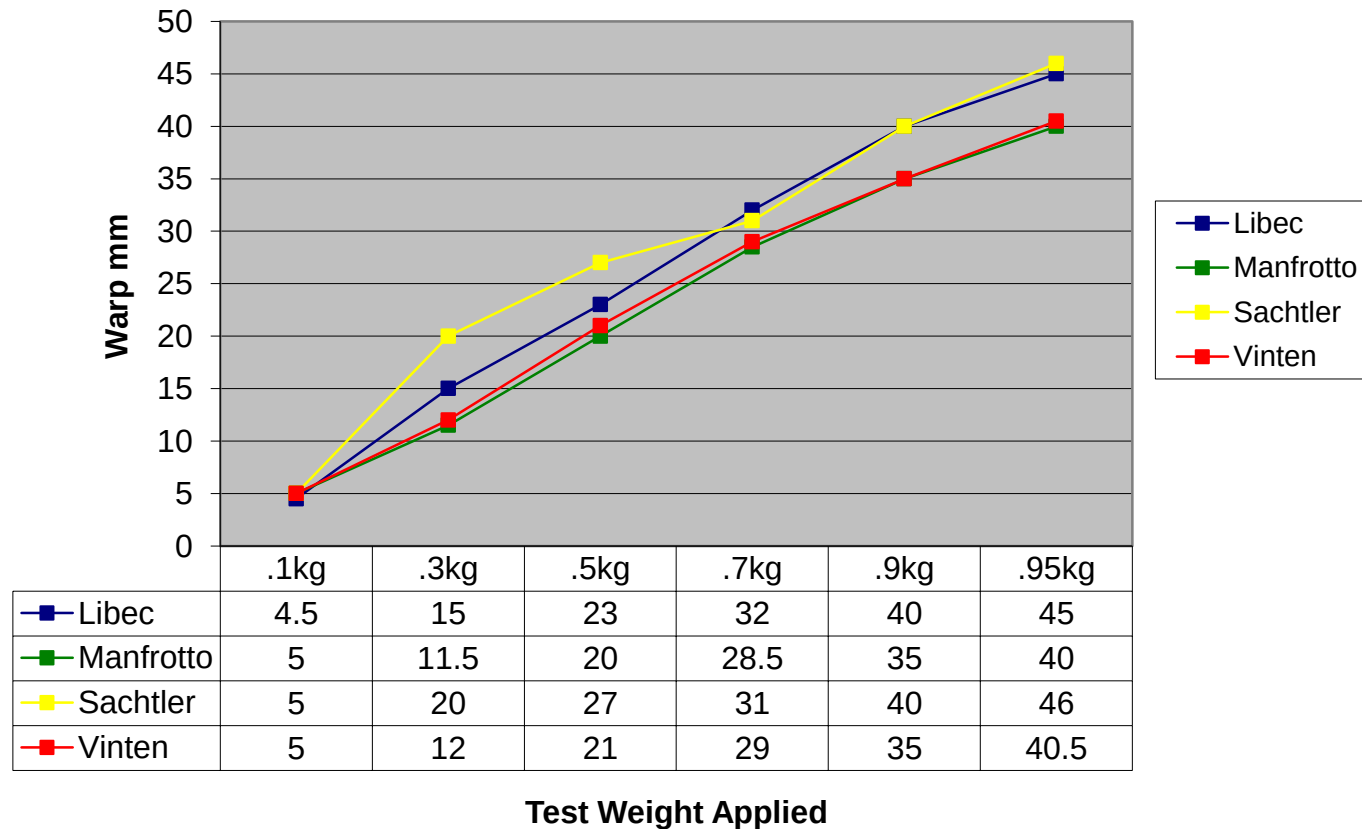
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Tripod Stress Scores Mid Level Spreader Extended - Tripod Receiver Warp



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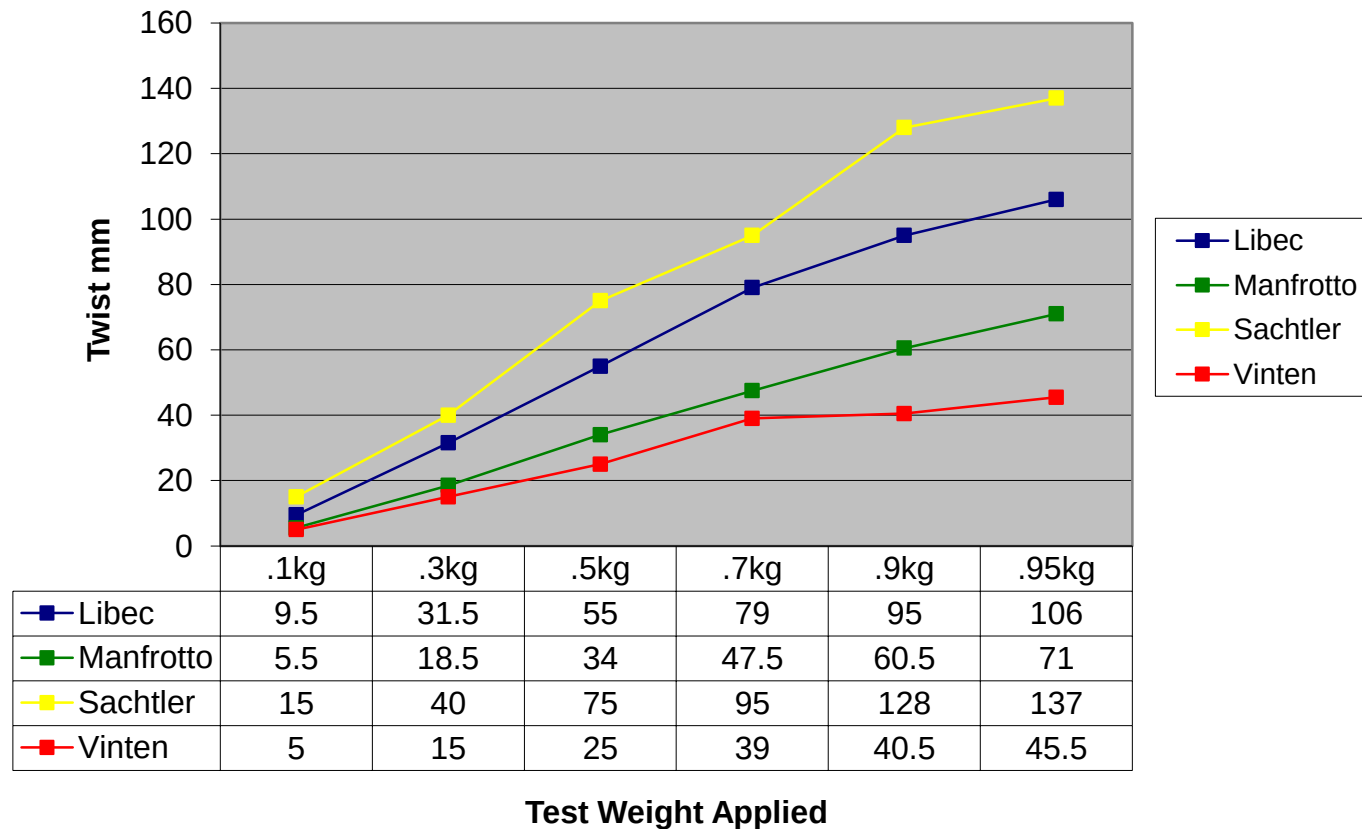
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Tripod Stress Scores - Mid Level Spreader Retracted - Twist /Windup



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Tripod Stress Scores Mid Level Spreader Retracted - Tripod Receiver Warp

