

Spring Balancers



INFO

Capacities up to 300 kg available on request.



Load indicator

for models
YBF-09 up to YBF-70
YBF-22L up to YBF-70L
YBA-15 up to YBA-70
YBA-22L up to YBA-70L



Rope guide

for models
YBF-09 up to YBF-200
YBF-09L up to YBF-130L
YBA-15 up to YBA-70



Spring assembly

as separate unit in a closed steel housing.
All models with capacities more than 5 kg.

Spring balancers model YBF

Capacity 0.5 - 200 kg

Spring balancers with extended rope length model YBF-L

Capacity 1.5 - 130 kg

Spring balancers are used to relieve the operator from the weight of hand-tools. By using a tapered rope drum the weight of the attached load is compensated, loads up to 200 kg can be moved effortlessly in vertical axis.

Features

- Spring balancers model YBF are designed in accordance with DIN 15112.
- The housing is manufactured from high-tensile aluminium pressure die casting for maximum resistance to impact.
- Manual drum lock for an easy exchange of rope or for changing the attached load.
- The special spring-assembly inside the balancer guarantees a consistent counterbalance throughout the complete working range.
- Easy exchange of wire rope. A small slot in the body facilitates the removal and re-installation of the rope without any need to disassemble the unit.
- Spring assemblies as separate units in a closed steel housing for improved handling during assembly and disassembly. Reduced risk of injuries.
- Rope guide made of wear-resistant nylon for reduced wear of rope and body. Lifetime of the spring balancer is increased. The rope guide can be removed and installed on site without disassembling the rope.
- Load indicator allows easy reading of the capacity set.
- Upper and lower suspension eyes are provided for the attachment of secondary safety chains. Providing additional safety and preventing the spring balancer and load from falling accidentally.

Applications

Spot-welding guns, riveting-machines, slaughterhouse equipment, multiple nut-runners etc.

Spring Balancers

Technical data model YBF and model YBF-L

Model	Suspension eyes top (T) and bottom (B)	Adjustment of spring tension V=vertical H=horizontal	Tapered rope drum	Manual drum lock	Automatic drum-locking device	Load indicator	Spring assembly enclosed	Closed body	Rope guide, nylon	Rope exchange without disassembly
YBF-01	T	H	•	–	–	–	–	•	–	–
YBF-02	T	H	•	–	–	–	–	•	–	–
YBF-03	T	H	•	–	–	–	–	•	–	–
YBF-05	T	H	•	–	–	–	–	•	–	–
YBF-09	T	H	•	•	•	•	•	•	•	•
YBF-15	T	H	•	•	•	•	•	•	•	•
YBF-22	T + B	V	•	•	•	•	•	•	•	•
YBF-30	T + B	V	•	•	•	•	•	•	•	•
YBF-40	T + B	V	•	•	•	•	•	•	•	•
YBF-50	T + B	V	•	•	•	•	•	•	•	•
YBF-60	T + B	V	•	•	•	•	•	•	•	•
YBF-70	T + B	V	•	•	•	•	•	•	•	•
YBF-85	T + B	V	•	•	•	–	•	•	•	•
YBF-100	T + B	V	•	•	•	–	•	•	•	•
YBF-120	T	H	•	•	•	–	•	•	•	–
YBF-140	T	H	•	•	•	–	•	•	•	–
YBF-170	T	H	•	•	•	–	•	•	•	–
YBF-200	T	H	•	•	•	–	•	•	•	–
YBF-03L	T	H	•	–	•	–	–	•	–	–
YBF-05L	T	H	•	–	•	–	–	•	–	–
YBF-09L	T	V	•	•	•	–	•	•	•	–
YBF-15L	T	V	•	•	•	–	•	•	•	–
YBF-22L	T	V	•	•	•	•	•	•	•	–
YBF-30L	T	V	•	•	•	•	•	•	•	–
YBF-40L	T + B	V	•	•	•	•	•	•	•	–
YBF-50L	T + B	V	•	•	•	•	•	•	•	–
YBF-60L	T + B	V	•	•	•	•	•	•	•	–
YBF-70L	T + B	V	•	•	•	•	•	•	•	–
YBF-85L	T + B	V	•	•	•	–	•	•	•	–
YBF-100L	T	H	•	•	•	–	•	•	•	–
YBF-120L	T	H	•	•	•	–	•	•	•	–
YBF-130L	T	H	•	•	•	–	•	•	•	–

Technical data model YBA and model YBA-L

Model	Suspension eyes top (T) and bottom (B)	Adjustment of spring tension V=Vertikal H=Horizontal	Tapered rope drum	Manual drum lock	Automatic drum-locking device	Load indicator	Spring assembly enclosed	Closed body	Rope guide, nylon	Rope exchange without disassembly
YBA-15	T	V	•	•	•	•	•	•	•	•
YBA-22	T + B	V	•	•	•	•	•	•	•	•
YBA-30	T + B	V	•	•	•	•	•	•	•	•
YBA-40	T + B	V	•	•	•	•	•	•	•	•
YBA-50	T + B	V	•	•	•	•	•	•	•	•
YBA-60	T + B	V	•	•	•	•	•	•	•	•
YBA-70	T + B	V	•	•	•	•	•	•	•	•
YBA-15L	T + B	V	•	•	•	–	•	•	•	–
YBA-22L	T + B	V	•	•	•	•	•	•	•	–
YBA-30L	T + B	V	•	•	•	•	•	•	•	–
YBA-40L	T + B	V	•	•	•	•	•	•	•	–
YBA-50L	T + B	V	•	•	•	•	•	•	•	–
YBA-60L	T + B	V	•	•	•	•	•	•	•	–
YBA-70L	T + B	V	•	•	•	•	•	•	•	–

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Technical data model YBF and model YBF-L

Model	EAN-No. 4025092*	Capacity min.	Capacity max.	Working range	Weight with rope
		kg	kg	m	kg
YBF-01	*485654	0.5	1.5	1.0	1.0
YBF-02	*485661	1	2	1.0	1.0
YBF-03	*485685	1.5	3	1.3	1.8
YBF-05	*485692	3	5	1.3	1.9
YBF-09	*485777	4.5	9	1.3	4.0
YBF-15	*485784	9	15	1.3	4.0
YBF-22	*485791	15	22	1.5	8.0
YBF-30	*485807	22	30	1.5	8.0
YBF-40	*485814	30	40	1.5	10.5
YBF-50	*485821	40	50	1.5	10.5
YBF-60	*485838	50	60	1.5	11.0
YBF-70	*485845	60	70	1.5	11.5
YBF-85	*485968	70	85	1.5	12.0
YBF-100	*485975	85	100	1.5	12.5
YBF-120	*485999	100	120	1.5	28.0
YBF-140	*485982	120	140	1.5	29.0
YBF-170	*486002	140	170	1.5	35.0
YBF-200	*486019	170	200	1.5	36.0
YBF-03L	*485708	1.5	3	2.5	3.9
YBF-05L	*485753	3	5	2.5	4.0
YBF-09L	*486026	4.5	9	2.3	7.0
YBF-15L	*486033	9	15	2.3	7.5
YBF-22L	*486040	15	22	2.3	8.5
YBF-30L	*486057	22	30	2.3	8.5
YBF-40L	*486064	30	40	2.3	11.0
YBF-50L	*486071	40	50	2.3	11.0
YBF-60L	*486088	50	60	2.3	11.5
YBF-70L	*486095	60	70	2.3	12.0
YBF-85L	*486101	70	85	2.5	26.5
YBF-100L	*486217	85	100	2.5	27.0
YBF-120L	*486231	100	120	2.5	34.0
YBF-130L	*486255	120	130	2.5	35.0



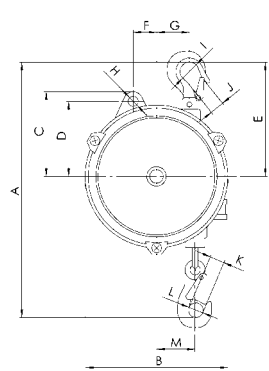
Technical data model YBA and model YBA-L

Model	EAN-No. 4025092*	Capacity min.	Capacity max.	Working range	Weight with rope
		kg	kg	m	kg
YBA-15	*486279	9	15	1.3	5.5
YBA-22	*486286	15	22	1.5	8.5
YBA-30	*486293	22	30	1.5	9.0
YBA-40	*486309	30	40	1.5	11.5
YBA-50	*486316	40	50	1.5	12.0
YBA-60	*486330	50	60	1.5	13.0
YBA-70	*486323	60	70	1.5	13.5
YBA-15L	*486347	9	15	2.3	8.5
YBA-22L	*486354	15	22	2.3	9.0
YBA-30L	*486361	22	30	2.3	9.5
YBA-40L	*486378	30	40	2.3	12.0
YBA-50L	*486385	40	50	2.3	12.5
YBA-60L	*486392	50	60	2.3	13.5
YBA-70L	*486408	60	70	2.3	14.0

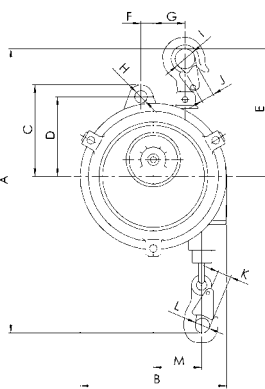
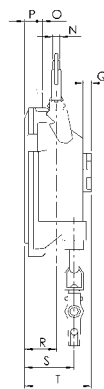
Spring Balancers

Dimensions spring balancers body type I, body type II & body type III

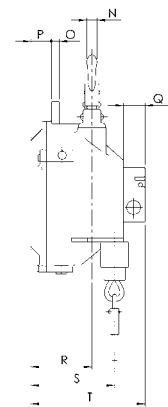
Model	Body type I		Body type II			Body type III					
	YBF-01 YBF-02	YBF-03 YBF-05	YBF-09 YBF-15	YBF-03L YBF-05L	YBA-15	YBF-22 YBF-30	YBF-40 YBF-50	YBF-60 YBF-70 YBF-85 YBF-100	YBF-09L YBF-15L YBF-22L YBF-30L	YBF-40L YBF-50L	YBF-60L YBF-70L
A min., mm	315	290	340	375	340	445	440	440	445	440	440
A max., mm	1315	1590	1640	2875	1640	1945	1940	1940	2745	2740	2740
B, mm	132	148	174	197	174	218	220	220	218	220	220
C, mm	72	89	109	114	109	130	130	130	130	130	130
D, mm	68	78	95	105	95	111	111	111	111	111	111
E, mm	120	120	152	175	152	194	194	194	194	194	194
F, mm	22	25	15	23	15	35	35	35	35	35	35
G, mm	26	33	38	30	38	47	47	47	47	47	47
H, mm	10	10	12	12	12	15	17	17	15	17	17
I, mm	14	14	24	14	24	30	30	30	30	30	30
J, mm	9	9	14	14	14	18	18	18	18	18	18
K, mm	10	8	15	14	15	18	18	18	18	18	18
L, mm	17	14	18	17	18	24	24	24	24	24	24
M min., mm	45	45	39	65	39	46	46	46	46	46	46
M max., mm	65	75	68	105	68	83	83	83	83	83	83
N, mm	9	9	14	14	14	16	16	16	16	16	16
O, mm	6	6	9	8	9	12	14	14	12	14	14
P, mm	11	12	24	30	24	35	75	86	35	75	86
Q, mm	5	9	25	9	25	30	33	33	30	33	33
R, mm	30	32	72	45	94	80	105	116	80	105	116
S min., mm	20	35	65	55	87	72	97	97	72	97	97
S max., mm	38	50	99	85	121	112	137	137	112	137	137
T, mm	49	69	136	110	148	158	188	199	158	188	199
U, mm	-	-	-	-	-	130	130	130	130	130	130



Body type I

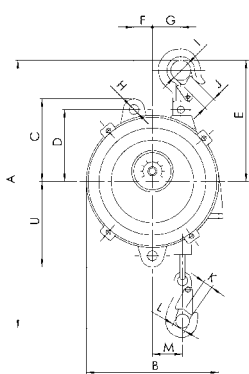


Body type II

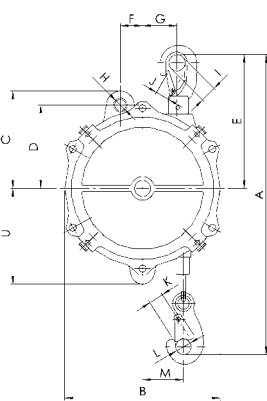
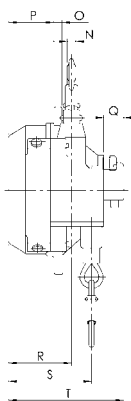


Dimensions spring balancers body type IV & body type V

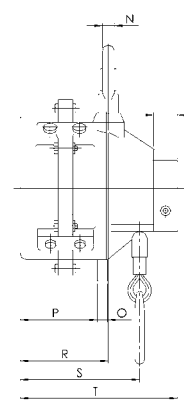
Model	Body type IV				Body type V					
	YBF-120 YBF-140	YBF-170 YBF-200	YBF-85L YBF-100L	YBF-120L YBF-130L	YBA-22 YBA-30	YBA-40 YBA-50	YBA-60 YBA-70	YBA-15L YBA-22L YBA-30L	YBA-40L YBA-50L	YBA-60L YBA-70L
A min., mm	550	550	550	550	445	440	440	445	440	440
A max., mm	2050	2050	3050	3050	1945	1940	1940	2745	2740	2740
B, mm	247	247	247	247	218	220	220	218	220	220
C, mm	156	156	156	156	130	130	130	130	130	130
D, mm	128	128	128	128	111	111	111	111	111	111
E, mm	265	265	265	265	194	194	194	194	194	194
F, mm	40	40	40	40	35	35	35	35	35	35
G, mm	65	65	65	65	47	47	47	47	47	47
H, mm	17	17	17	17	15	17	17	15	17	17
I, mm	26	26	26	26	30	30	30	30	30	30
J, mm	15	15	15	15	18	18	18	18	18	18
K, mm	24	24	24	24	18	18	18	18	18	18
L, mm	27	27	27	27	24	24	24	24	24	24
M min., mm	54	54	54	54	46	46	46	46	46	46
M max., mm	95	95	95	95	83	83	83	83	83	83
N, mm	18	18	18	18	16	16	16	16	16	16
O, mm	16	16	16	16	12	14	14	12	14	14
P, mm	142	185	142	185	55	95	105	55	95	105
Q, mm	37	37	37	37	30	33	33	30	33	33
R, mm	155	193	155	193	115	140	140	115	140	140
S min., mm	175	215	175	215	107	132	132	107	132	132
S max., mm	205	248	205	248	147	172	172	147	172	172
T, mm	268	268	268	310	180	208	218	180	208	218
U, mm	156	156	156	156	130	130	130	130	130	130



Body type III
Body type V



Body type IV



INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.