



CERTIFICATE

No: BCP-201178883-08/02.01.2015

The present certifies that

Company
Dolomiten GmbH

9500 Villach
Ottokar-Kernstock Str.5

is an official Representative /Dealer/
of Balkancarpodem AD Bulgaria

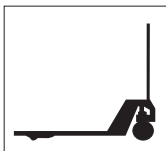
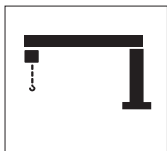
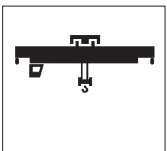
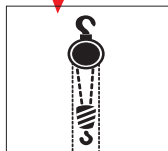
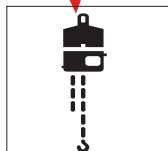
in the region of Italy, Austria and Slovenia

and has the right to represent, realize and make
service maintenance of their products.

Validity: 30.06.2016 r.

President:

(P. Buzov)





**TÜV Rheinland/
Berlin-Brandenburg**



Certificate

TÜV Anlagentechnik Ltd. herewith certifies that the firm

BALKANCARPODEM Ltd.

Blvd. Kl. Ohridski 18

Sofia

Bulgaria

subjected the product

**Rope electric hoists with and
without trolley and assemblies**

to a voluntary conformity test according to
Annex I of the EEC Directive 98/37 (Directive on Machines).

This is to confirm
that the product conforms with basic safety and health requirements.

Scope, test bases and all other details are given in

Test Report No. 03/ 169/ 35

The requirements for putting the mentioned product into circulation in the EU
shall be met once an authorized person of the mentioned firm,
having his/her office within the European Community,
has produced a Statement of Conformity and marked the product with the CE sign.



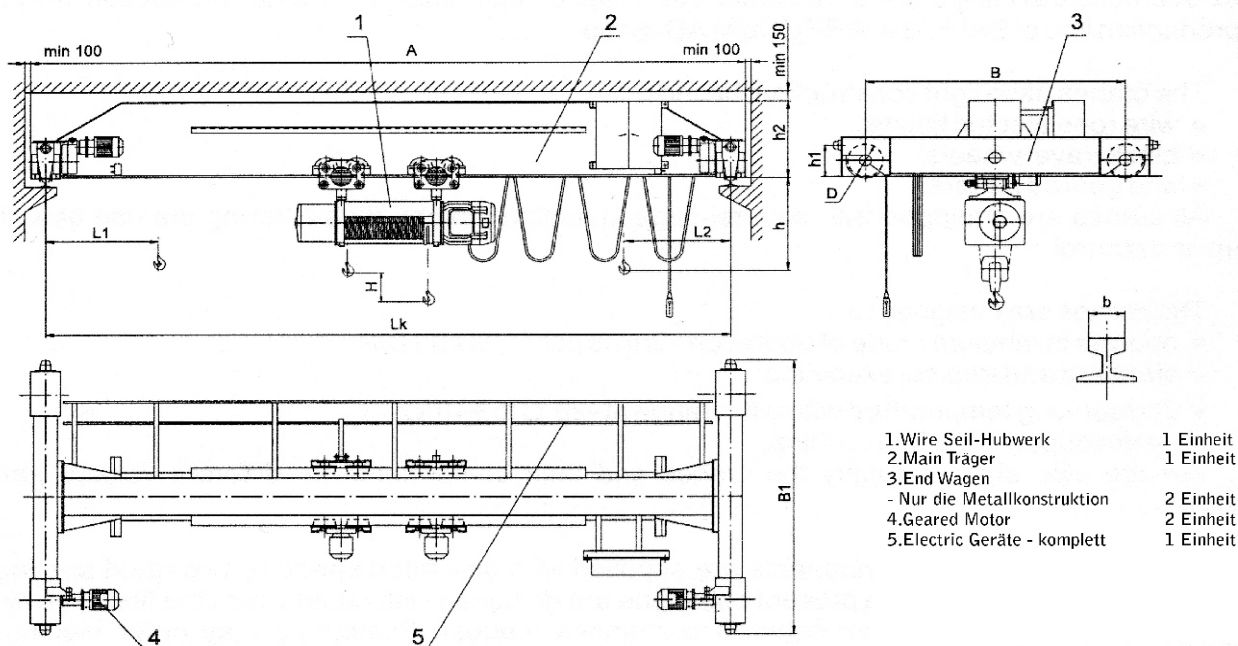
30.09.2003



Purth
expert

1. Einzelträger stehen Laufkrane

1.1. Hauptparameter und Abmessungen

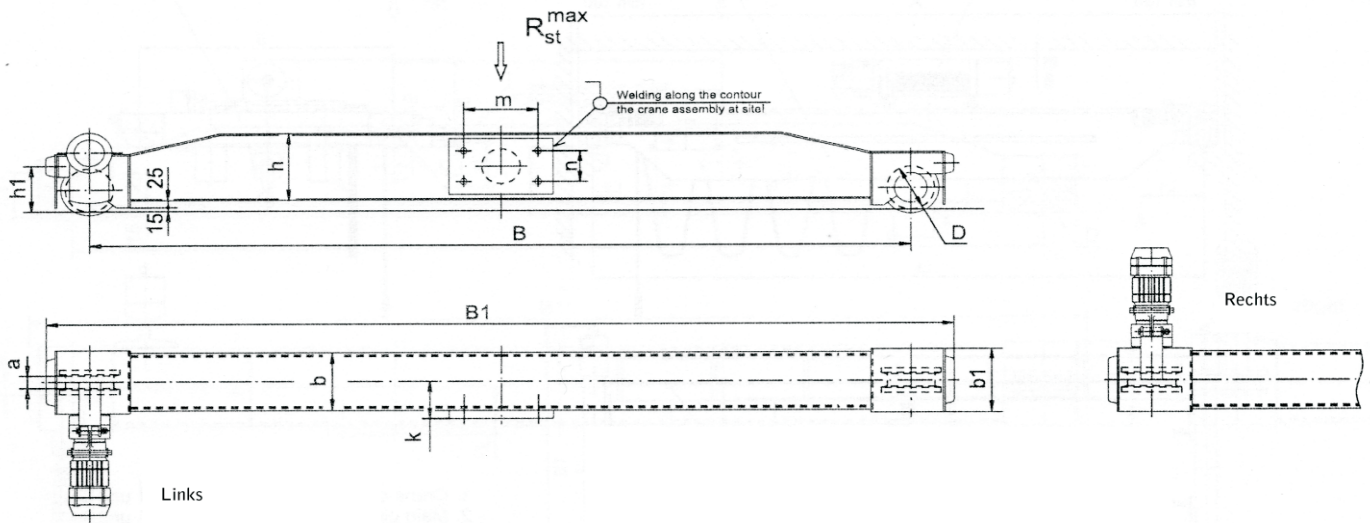


Bezeichnung	Kapazität Q	Spann- weite Lk	Hubhöhe H	Geschwindigkeiten			Größe								Rmax Maximaler Druck auf Laufrädern
				Aufzug	Krabben	Kran	A	B	B1	D	b	h	h1	h2	
-	t	m		m/min			mm								kN
BCE-B 5/10.5	5	10.5	7 ... 40	8 8/2	20 20/6	20/6	10780	2000	2340	160	40	1505	160	520	35
BCE-B 5/16.5		16.5					16780	3000	3340					675	38
BCE-B 5/22.5		22.5					22840	4000	4380	200	50		200	820	41
BCE-B 5/28.5		28.5					28840	4000	4380					1050	45
BCE-B 6.3/10.5	6.3	10.5	5 ... 18	4 4/1	20 20/6	20/6	10840	2000	2380	200	50	1275	200	615	42
BCE-B 6.3/16.5		16.5					16840	3000	3380					815	45
BCE-B 6.3/22.5		22.5					22840	4000	4380					970	48
BCE-B 6.3/28.5		28.5					28840	4000	4380					1050	53
BCE-B 8/10.5	8	10.5	7 ... 34	8 8/2	20 20/6	20/6	10840	2000	2380	250	50	1725	250	615	50
BCE-B 8/16.5		16.5					16840	3000	3500					815	54
BCE-B 8/22.5		22.5					22840	4000	4500					970	59
BCE-B 8/28.5		28.5					28840	4000	4500					1050	65
BCE-B 10/10.5	10	10.5	5 ... 20	4 4/1	20 20/6	20/6	10840	2000	2500	250	50	1580	250	675	63
BCE-B 10/16.5		16.5					16840	3000	3500					970	68
BCE-B 10/22.5		22.5					22870	4000	4500					980	75
BCE-B 10/28.5		28.5					28870	4000	4500					1110	80
BCE-B 12.5/10.5	12.5	10.5	8 ... 17	4 4/1	20 20/6	20/6	10840	2000	2500	250	50	1710	250	770	79
BCE-B 12.5/16.5		16.5					16840	3000	3500					970	82
BCE-B 12.5/22.5		22.5					22870	4000	4590	320			290	980	89
BCE-B 12.5/28.5		28.5					28870	4000	4590					1250	95

Bemerkungen:

*) Größen L1 und L2 sind abhängig von der Art und Hebe Hubhöhe

1.2. Kopfträger



Bezeichnung	Kapazität Q	Spann- weite Lk	Ge- schwin- dig- keit	Getriebemotor		Größe											R _{st} ^{max}				
				Art	Leistung	D	B	B1	a	b	h	b1	h1	k	m	n					
-	t	m	m/min	-	kW	mm											kN				
ECE-B 00	5	10.5	20/6	TP1200-35 T90S-12/4	0.18/0.55	160	2000	2340	55	240	280	240	160	150	600	140	79				
ECE-B 01		16.5					3000	3340			330					190	80				
ECE-B 02		22.5		TP1250-46 T90S-12/4		200	4000	4380	65	270	400	270	200	165		260	83				
ECE-B 03		28.5					4000	4380			420					280	112				
ECE-B 04	6.3	10.5	20/6	TP1250-46 T90S-12/4	0.18/0.55	200	2000	2380	65	270	280	270	200	165	600	140	87				
ECE-B 05		16.5					3000	3380			330					190	92				
ECE-B 06		22.5					4000	4380			420					280	112				
ECE-B 07		28.5					4000	4380			420					280	112				
ECE-B 08	8	10.5	20/6	TP1250-46 T90S-12/4	0.18/0.55	200	2000	2380	65	270	330	270	200	165	600	190	110				
ECE-B 09		16.5		TP1250-54 T90S-12/4		250	3000	3500		300	400	324	180	250		190	260	117			
ECE-B 10		22.5					4000	4500			320		460				324	250	190	320	139
ECE-B 11		28.5					4000	4500					460							320	139
ECE-B 12	10	10.5	20/6	TP1250-54 T90S-12/4	0.18/0.55	250	2000	2500	65	300	400	324	250	180	600	260	131				
ECE-B 13		16.5		3000			3500	460		320	324					250	190	320	140		
ECE-B 14		22.5		TP1315-54 T90L-12/4	0.25/0.75		4000	4500						520				380	165		
ECE-B 15		28.5					4000	4500												520	380
ECE-B 16	12.5	10.5	20/6	TP1315-54 T90L-12/4	0.25/0.75	250	2000	2500	65	300	400	324	250	180	600	260	166				
ECE-B 17		16.5		3000			3500	460		320	324					290	190	320	172		
ECE-B 18		22.5		TP1315-70 T100LA-12/4	0.37/1.10	320	4000	4590				550	410	200							
ECE-B 19		28.5					4000	4590										550	410	200	

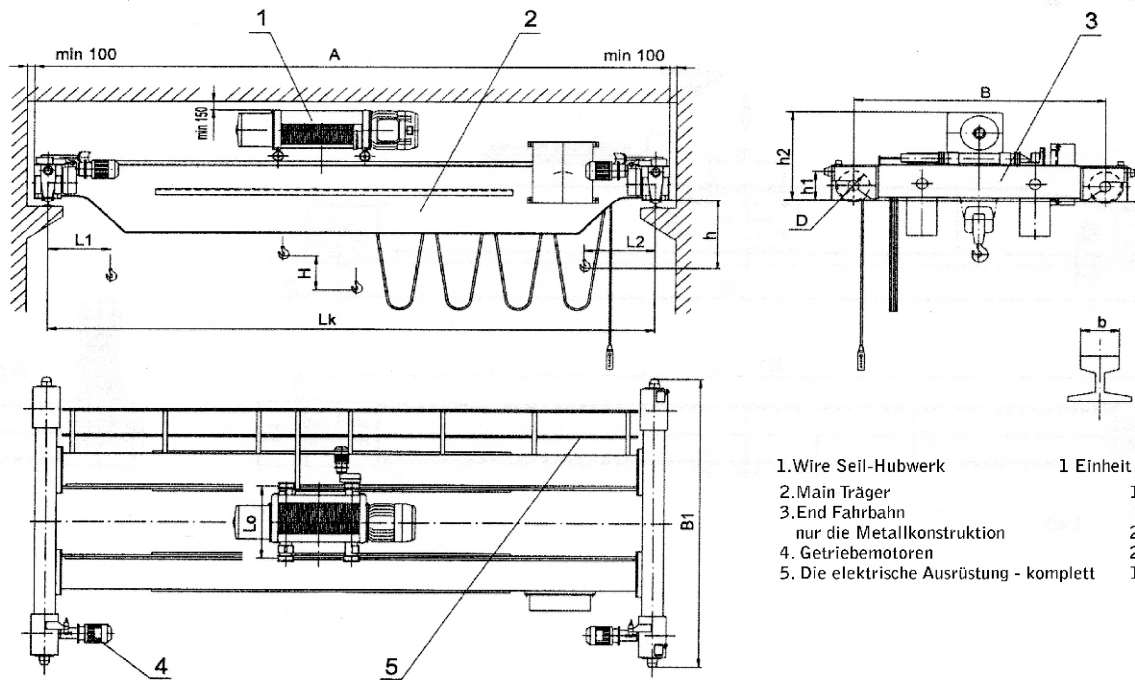
Bemerkungen:

*) R_{st}^{max} - Maximale statische Belastung

$$R_{st}^{max} \approx \left[\frac{G_{crane}}{2} + (Q + G_{hoist}) \right] \cdot 1.10 \text{ (kN)}$$

2. Double Träger Laufkrane

2.1. Hauptparameter und Abmessungen

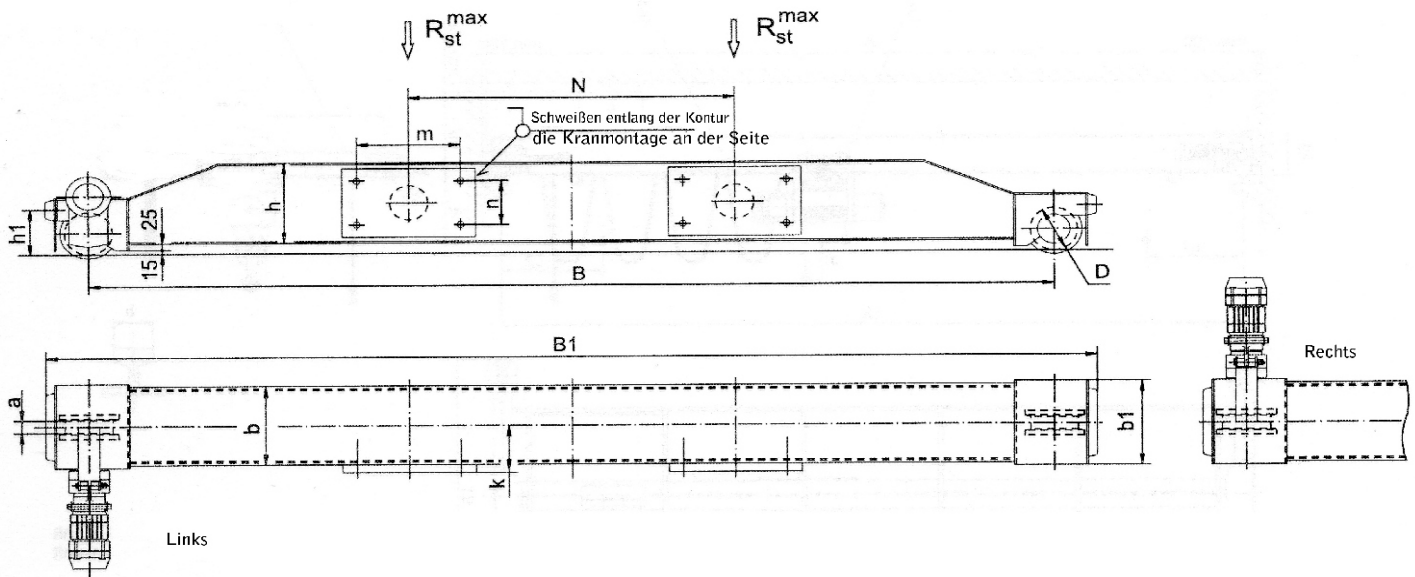


Bezeichnung	Kapazität Q	Spann- weite Lk	Hubhöhe H	Geschwindigkeiten			Größe									Rmax Maximaier Druck auf Laufrädern
				Aufzug	Krabben	Kran	A	B	B1	D	b	Lo	H, min	h1	h2	
-	t	m		m/min			mm									kN
BCD-B 5/10.5	5	10.5	7 ... 40	8 8/2	20 20/6	20/6	10785	3500	3880	200	50	1000	248	200	1150	44
BCD-B 5/16.5		16.5					16785	3500	3880				248		1150	50
BCD-B 5/22.5		22.5					22785	4000	4380				208		1190	58
BCD-B 5/28.5		28.5					28840	4200	4695				188		1200	69
BCD-B 6.3/10.5	6.3	10.5	5 ... 18	4 4/1	20 20/6	20/6	10785	3500	3880	200	50	1000	248	200	1070	52
BCD-B 6.3/16.5		16.5					16785	3500	3880				248		1070	58
BCD-B 6.3/22.5		22.5					22840	4000	4495				188		1140	67
BCD-B 6.3/28.5		28.5					28840	4200	4695				148		1180	78
BCD-B 8/10.5	8	10.5	7 ... 34	8 8/2	20 20/6	20/6	10840	3500	3995	250	50	1000	248	250	1240	61
BCD-B 8/16.5		16.5					16840	3500	3995				248		1240	69
BCD-B 8/22.5		22.5					22840	4000	4495				188		1290	77
BCD-B 8/28.5		28.5					28840	4200	4790				128		290	1350
BCD-B 10/10.5	10	10.5	5 ... 20	4 4/1	20 20/6	20/6	10840	3500	3995	250	50	1000	193	250	1170	78
BCD-B 10/16.5		16.5					16840	3500	4090				173		1190	85
BCD-B 10/22.5		22.5					22840	4000	4590				113		1250	95
BCD-B 10/28.5		28.5					28880	4200	4830				400		70	85
BCD-B 12.5/10.5	12.5	10.5	8 ... 17	4 4/1	20 20/6	20/6	10840	3500	4090	320	50	1200	163	290	1330	87
BCD-B 12.5/16.5		16.5					16840	3500	4090				163		1330	95
BCD-B 12.5/22.5		22.5					22880	4000	4630				75		1430	107
BCD-B 12.5/28.5		28.5					28880	4200	4830				75		1430	119
BCD-B 16/10.5	16	10.5	8 ... 17	4 4/1	20 20/6	20/6	10840	3500	4090	320	50	1200	253	290	1370	107
BCD-B 16/16.5		16.5					16880	3500	4130				253		1390	115
BCD-B 16/22.5		22.5					22880	4000	4630				205		1430	128
BCD-B 16/28.5		28.5					28880	4200	4830				155		1480	142
BCD-B 20/10.5	20	10.5	8 ... 17	3.2 3.2/0.8	20 20/6	20/6	10880	3500	4130	400	70	1400	205	370	1420	130
BCD-B 20/16.5		16.5					16880	3500	4130				205		1420	139
BCD-B 20/22.5		22.5					22880	4000	4630				155		1480	150
BCD-B 20/28.5		28.5					28880	4200	4830				155		1480	166

Bemerkungen:

*) Größen L1 und L2 sind abhängig von der Art und Hebe Hubhöhe

2.2. Kopfträger



Bezeichnung	Kapazität Q	Spannweite Lk	Geschwindigkeit	Getriebemotor		Größe												R _{st} ^{max}
				Art	Leistung	D	B	B1	a	b	b1	H _i	h1	k	m	n	N	
-	t	m	m/min	-	kW	mm												kN
ECD-B 00	5	10.5	20/6	TP1250-46 T90S-12/4	0.18/0.55	200	3500	3880	65	270	270	400	200	165	330	260	1224	54
ECD-B 01		16.5					3500	3880				400			470	300	1364	54
ECD-B 02		22.5		TP1250-54 T90S-12/4	0.25/0.75	250	4000	4380				440			620	320	1514	60
ECD-B 03		28.5					4200	4695				460			710	320	1604	71
ECD-B 04	6.3	10.5	20/6	TP1250-46 T90S-12/4	0.18/0.55	200	3500	3880	65	270	370	400	200	165	330	260	1224	54
ECD-B 05		16.5					3500	3880				400			470	300	1364	73
ECD-B 06		22.5		TP1250-54 T90S-12/4	0.25/0.75	250	4000	4495			320	460			620	320	1514	69
ECD-B 07		28.5					4200	4695				500			710	380	1604	81
ECD-B 08	8	10.5	20/6	TP1250-54 T90S-12/4	0.18/0.55	250	3500	3995	65	300	324	400	250	180	360	260	1254	73
ECD-B 09		16.5					3500	3995				400			470	320	1363	73
ECD-B 10		22.5		TP1250-54 T90L-12/4	0.25/0.75	250	4000	4495				460			620	320	1513	81
ECD-B 11		28.5					4200	4790				520			710	380	1602	94
ECD-B 12	10	10.5	20/6	TP1315-54 T90L-12/4	0.25/0.75	250	3500	3995	65	300	324	440	250	180	380	300	1273	82
ECD-B 13		16.5					3500	4090				460			500	320	1393	100
ECD-B 14		22.5		TP1315-70 T100LA-12/4	0.37/1.1	320	4000	4590			320	520			640	380	1532	100
ECD-B 15		28.5					4200	4830				550			710	406	1601	125
ECD-B 16	12.5	10.5	20/6	TP1315-70 T90L-12/4	0.25/0.75	320	3500	4090	70	300	324	460	290	180	380	320	1473	100
ECD-B 17		16.5					3500	4090				500			500	320	1592	100
ECD-B 18		22.5		TP1315-86 T100LA-12/4	0.37/1.1	400	4000	4630			365	550			640	406	1732	137
ECD-B 19		28.5					4200	4830				710			710	406	1801	137
ECD-B 20	16	10.5	20/6	TP1315-70 T100LA-12/4	0.37/1.1	320	3500	4090	70	320	324	500	290	190	440	360	1532	117
ECD-B 21		16.5					3500	4130				520			510	380	1601	125
ECD-B 22		22.5		FA87 SDT100LS-8/2-BM2/Z	0.45/1.80	400	4000	4630		340	365	550		370	610	406	1700	137
ECD-B 23		28.5					4200	4830				600			710	456	1800	151
ECD-B 24	20	10.5	20/6	FA87 SDT100LS-8/2-BM2/Z	0.45/1.80	400	3500	4130	85	340	365	550	370	200	460	406	1751	142
ECD-B 25		16.5					3500	4130				560			560	406	1849	151
ECD-B 26		22.5		FA87 SDT100L-8/2-BM2/Z	0.60/2.40	400	4000	4630			365	600		212	660	456	1949	162
ECD-B 27		28.5					4200	4830				760			760	452	2048	178

Remarks:

*) R_{st}^{max} - maximale statische Belastung

Wo:

G_{crane} - Kran Eigengewicht (t);

Q - Kran Nennleistung (t);

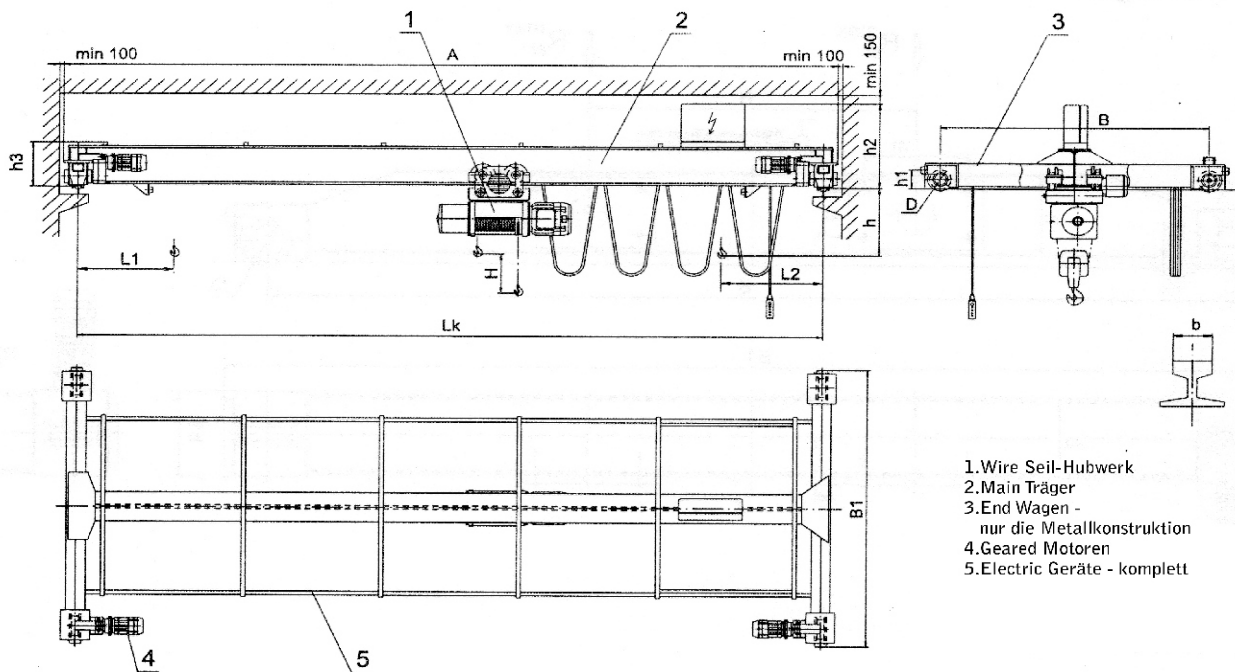
G_{crab} - Kran Krabbe Gewicht (t)

$$R_{st}^{max} \approx \frac{1}{2} \left[\frac{G_{crane}}{2} + (Q + G_{crab}) \right] \cdot 10 \text{ (kN)}$$

**) Ausgangsumdrehungen der Getriebe FA 87 ... - n_a = 4/17 min⁻¹

3. Einträgerlaufkran stehenden Kräne - Lichtart

3.1. Hauptparameter und Abmessungen

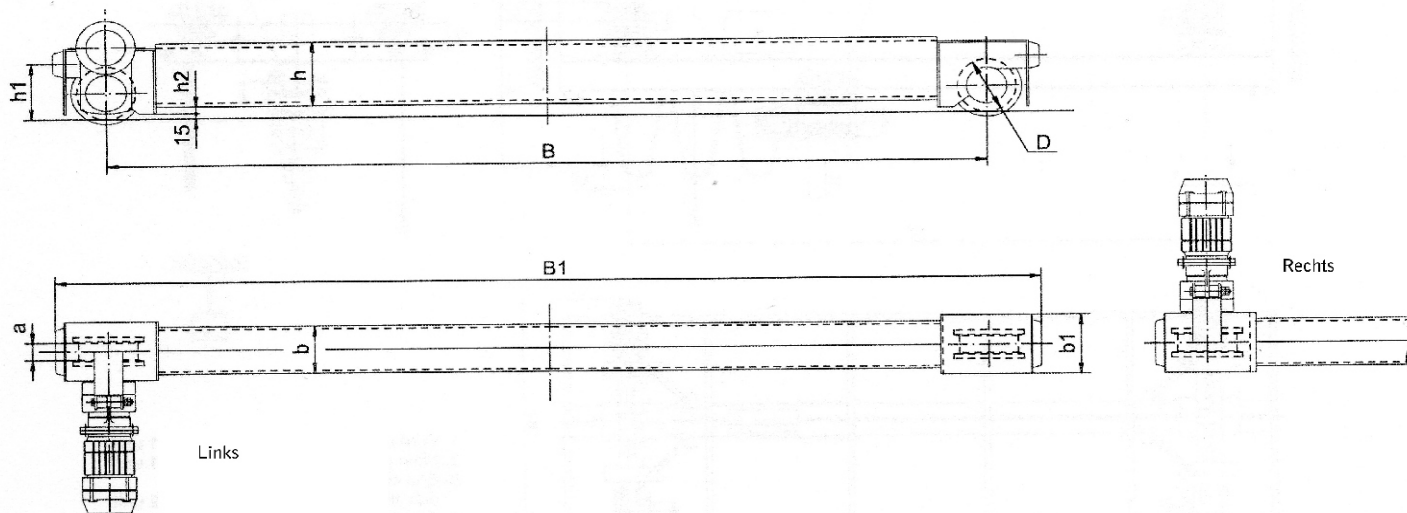


Bezeichnung	Kapazität Q	Spannweite Lk	Hubhöhe H	Geschwindigkeiten			Größe									Rmax Maximaler Druck auf Laufrädern
				Aufzug	Krabben	Kran	A	B	B1	D	b	h	h1	h2	h3	
-	t	m		m/min			mm									kN
MEA 1/7.5	1	7.5	5 ... 51	8 8/2	20 20/6	20/6	7740	1600	1938	160	40	990	160	735	335	11.5
MEA 1/10.5		10.5					10740	2000	2338							
MEA 1/13.5		13.5					13740	2700	3038							
MEA 1/16.5		16.5														
MEA 2/7.5	2	7.5	5 ... 45	8 8/2	20 20/6	20/6	7740	1600	1938	160	40	1190	160	735	335	19
MEA 2/10.5		10.5					10740	2000	2338							
MEA 2/13.5		13.5					13740	2700	3038							
MEA 2/16.5		16.5														
MEA 3.2/7.5	3.2	7.5	5 ... 37	8 8/2	20 20/6	20/6	7740	1600	1938	160	40	1260	160	775	375	27
MEA 3.2/10.5		10.5					10740	2000	2338							
MEA 3.2/13.5		13.5					13740	2700	3038							
MEA 3.2/16.5		16.5														
MEA 5/7.5	5	7.5	7 ... 40	8 8/2	20 20/6	20/6	7740	1600	1938	160	40	1535	160	805	405	38
MEA 5/10.5		10.5					10740	2000	2338							
MEA 5/13.5		13.5					13740	2700	3038							
MEA 5/16.5		16.5														
MEA 6.3/7.5	6.3	7.5	5 ... 18	4 4/1	20 20/6	20/6	7770	1600	1978	200	50	1210	200	865	465	46
MEA 6.3/10.5		10.5					10770	2000	2378							
MEA 6.3/13.5		13.5					13770	2700	3078							
MEA 6.3/16.5		16.5														
MEA 8/7.5	8	7.5	7 ... 34	8 8/2	20 20/6	20/6	7770	1600	1978	200	50	1640	200	925	525	57
MEA 8/10.5		10.5					10770	2000	2378							
MEA 8/13.5		13.5					13824	2700	3196							
MEA 8/16.5		16.5														

Bemerkungen:

*) Größen L1 und L2 sind abhängig von der Hebevorrichtung Typ und die Hubhöhe

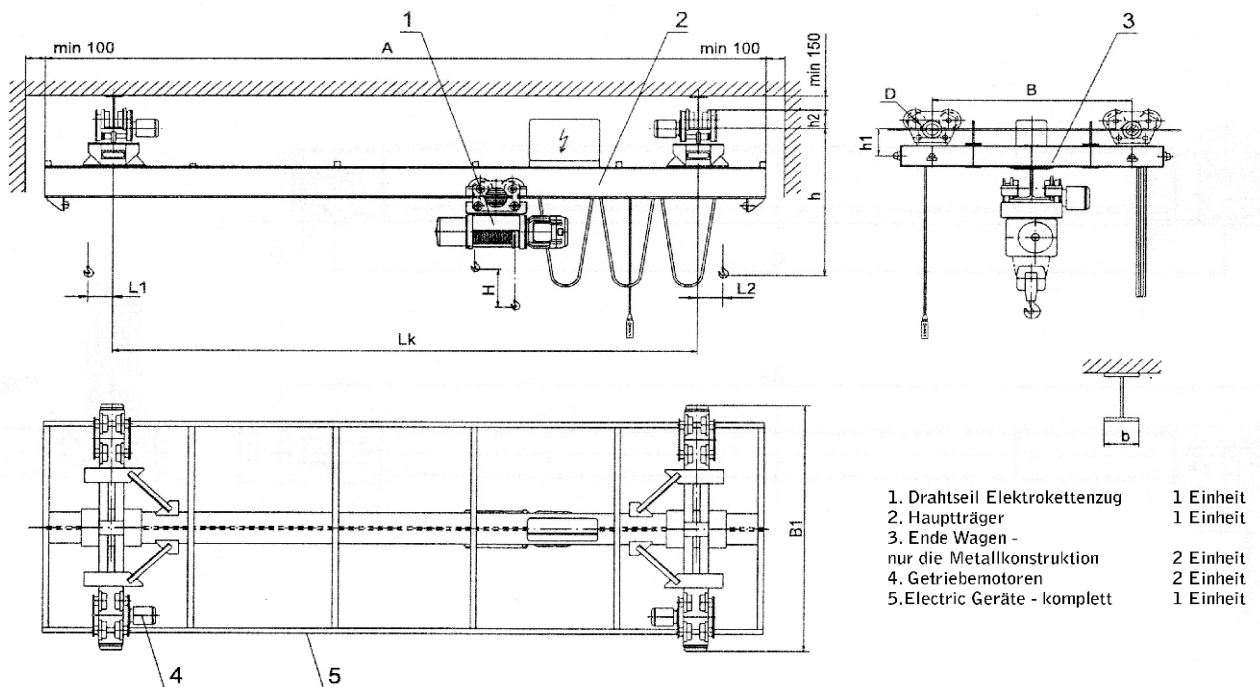
3.2. Kopfträger



Bezeichnung	Kapazität Q	Spann- weite Lk	Ge- schwin- dig-keit	Getriebemotor		Größe								
				Art	Leistung	D	B	B1	a	b	b1	h	h1	h2
-	t	m	m/min	-	kW	mm								
MEA 02-00	1	7.5	20/6	TP1160-35 T80A-12/4	0.08/0.25	160	1600	1938	55	116	240	140	160	60
MEA 02-01		10.5					2000	2338		128		160		40
MEA 02-02		13.5					2700	3038		140		180		20
MEA 02-03		16.5					3000	3338		152		200		35
MEA 02-04	2	7.5	20/6	TP1160-35 T80B-12/4	0.12/0.37	160	1600	1938	55	128	240	160	160	40
MEA 02-05		10.5					2000	2338		140		180		20
MEA 02-06		13.5					2700	3038		164		220		20
MEA 02-07		16.5					3000	3338		164		220		20
MEA 02-08	3.2	7.5	20/6	TP1200-35 T90S-12/4	0.18/0.55	160	1600	1938	55	152	240	200	160	40
MEA 02-09		10.5					2000	2338		164		220		30
MEA 02-10		13.5					2700	3038		180		240		40
MEA 02-11		16.5					3000	3338		190		270		40
MEA 02-12	5	7.5	20/6	TP1200-35 T90S-12/4	0.18/0.55	160	1600	1938	55	164	240	220	160	30
MEA 02-13		10.5					2000	2338		180		240		30
MEA 02-14		13.5					2700	3038		190		270		20
MEA 02-15		16.5					3000	3338		200		300		20
MEA 02-16	6.3	7.5	20/6	TP1250-46 T90S-12/4	0.18/0.55	200	1600	1978	65	164	270	220	200	30
MEA 02-17		10.5					2000	2378		180		240		50
MEA 02-18		13.5					2700	3078		200		300		30
MEA 02-19		16.5					3000	3378		200		300		30
MEA 02-20	8	7.5	20/6	TP1250-46 T90S-12/4	0.18/0.55	200	1600	1978	65	180	270	240	200	50
MEA 02-21		10.5		TP1250-54 T90S-12/4	0.18/0.55	250	2000	2378		190		270		30
MEA 02-22		13.5					2700	3196		210		330		40
MEA 02-23		16.5					3000	3496		220		360		30
MEA 02-24	10	7.5	20/6	TP1250-54 T90S-12/4	0.18/0.55	250	1600	2096	65	220	324	360	250	30
MEA 02-25		10.5					2000	2496		220		360		30
MEA 02-26		13.5					2700	3196		230		400		30
MEA 02-27		16.5					3000	3496		230		400		30

4. Single Träger-Hängekrane

4.1. Hauptparameter und Abmessungen

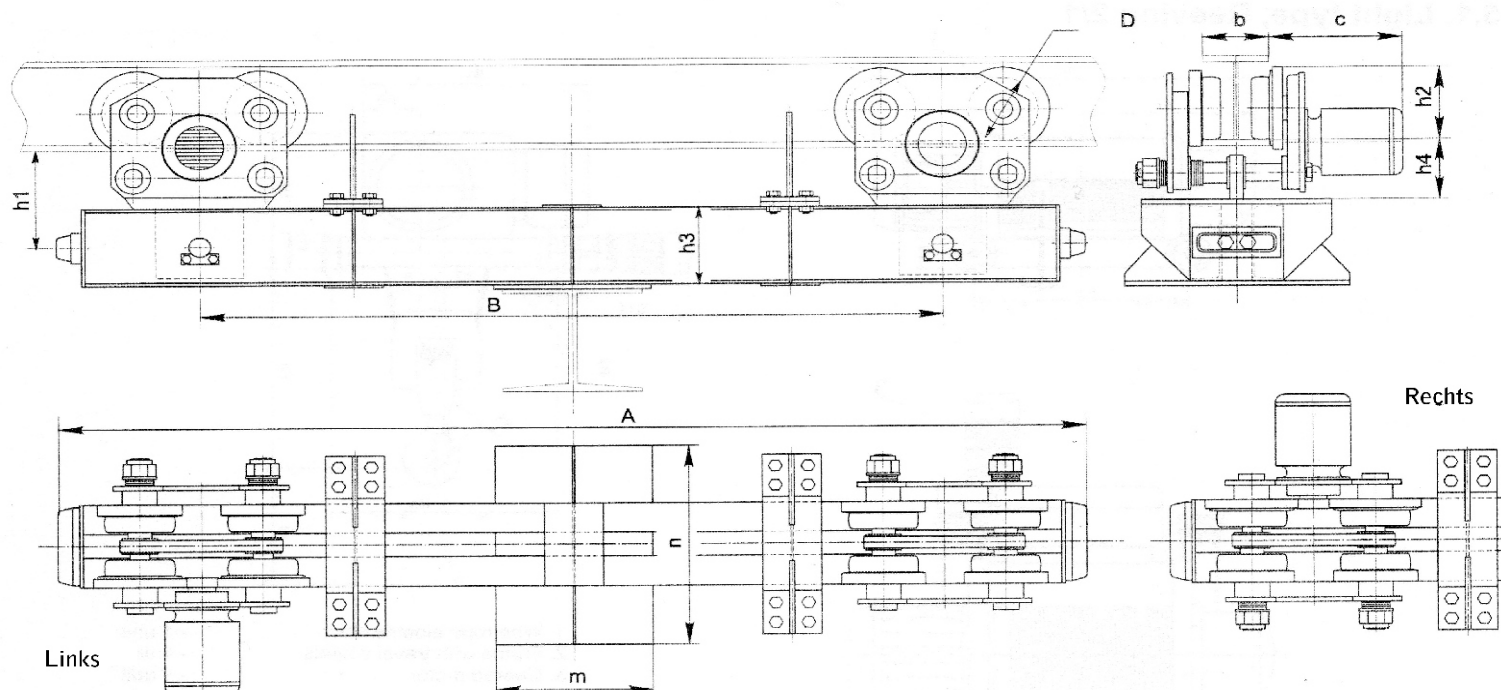


Bezeichnung	Kapazität Q	Spann- weite Lk	Hubhöhe H	Geschwindigkeiten			Größe								Rmax Maximaler Druck auf Laufrädern
				Aufzug	Krabben	Kran	A	B	B1	D	b	h	h1	h2	
-	t	m		m/min			mm								kN
MES 0.5/7	0.5	7	6 ... 51	8 8/2	20 20/6	20/6	8000	1200	1720	100	90 ... 130	1370	190	132	7
MES 0.5/10		10					12400	1700	2200			1410			7.5
MES 0.5/12		12					14400	2000	2520			1430			8
MES 1/7	1	7	6 ... 51	8 8/2	20 20/6	20/6	8000	1200	1720	100	130 ... 150	1390	190	132	10.5
MES 1/10		10					12400	1700	2200			1430			11.5
MES 1/12		12					14400	2000	2520			1450			12
MES 2/7	2	7	5 ... 45	8 8/2	20 20/6	20/6	8000	1200	1770	125	130 ... 150	1630	220	155	17
MES 2/10		10					12400	1700	2270			1670			18
MES 2/12		12					14400	2000	2570			1710			19.5
MES 3.2/7	3.2	7	5 ... 37	8 8/2	20 20/6	20/6	8000	1200	1770	125	130 ... 150	1720	220	155	25
MES 3.2/10		10					12400	1700	2340			1795			26
MES 3.2/12		12					14400	2000	2640			1815			27
MES 5/7	5	7	7 ... 40	8 8/2	20 20/6	20/6	8000	1200	1840	160	130 ... 150	2085	265	187	36
MES 5/10		10					12400	1700	2340			2125			37
MES 5/12		12					14400	2000	2640			2165			38
MES 8/7	8	7	7 ... 37	8 8/2	20 20/6	20/6	8000	1200	1840	160	130 ... 150	2255	265	187	56
MES 8/10		10					12400	1700	2340			2295			57
MES 8/12		12					14400	2000	2640			2345			58

Bemerkungen:

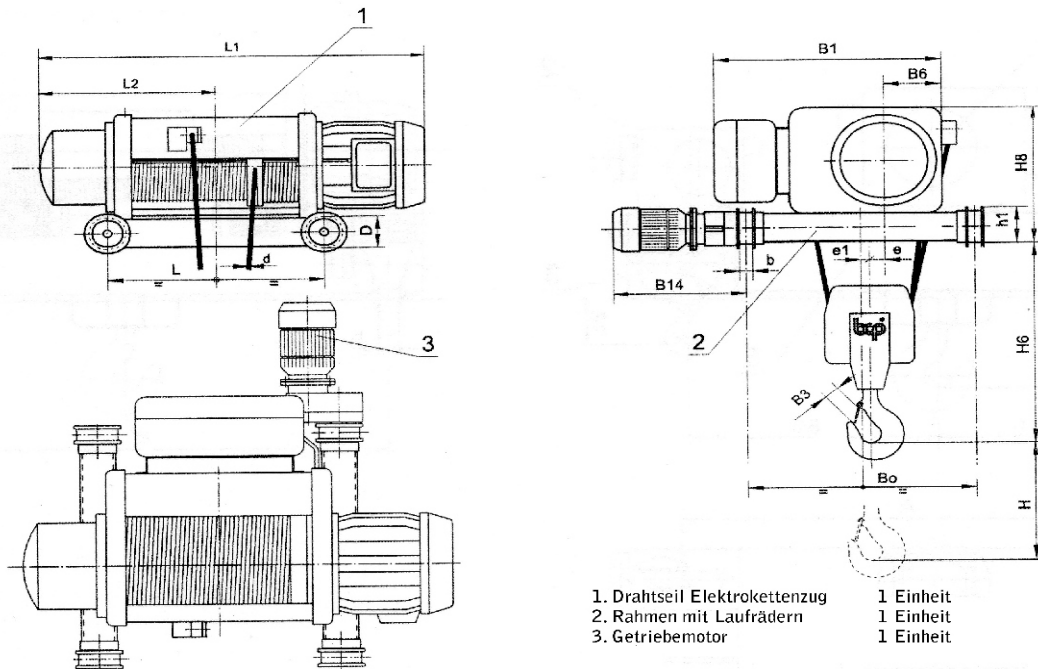
*) Größen L1 und L2 sind abhängig von dem Hebezeug Art und Hubhöhe

4.2. Kopfträger



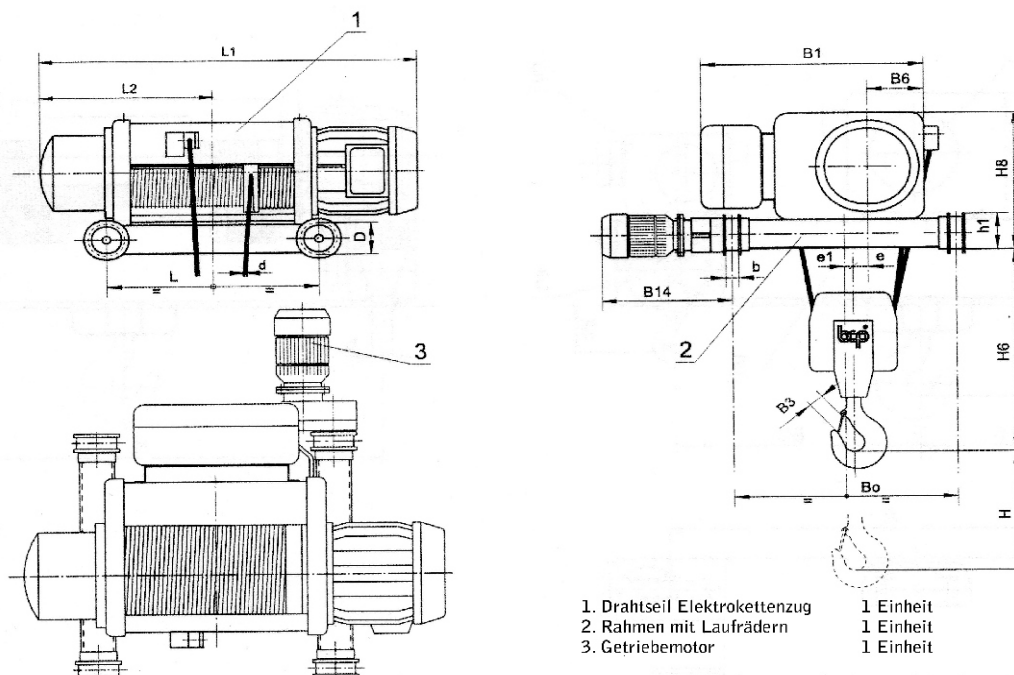
Bezeichnung	Kapazität Q	Spann- weite Lk	Ge- schwin- dig- keiten	Monorail Kran Krabben			Größe														
				Art	El. Motortyp	Leistung	A	B	D	b	c max	h1	h2	h3	h4	m	n				
-	t	m	m/min	-	-	kW	mm														
MES 01-00	0.5	7	20/6	EK 100 B	KK 1405-12/4A	0.06/0.18	1720	1200	100	90 ... 130	310	190	132	120	130	220	445				
MES 01-01		10					2220	1700						120		260	457				
MES 01-02		12					2520	2000						140		280	457				
MES 01-03	1	7	20/6	EK 100 B	KK 1405-12/4	0.06/0.18	1720	1200	100	90 ... 130	310	190	132	120	130	240	445				
MES 01-04		10					2220	1700						140		280	457				
MES 01-05		12					2520	2000						160		300	469				
MES 01-06	2	7	20/6	EK 125 B	KK 1407-12/4	0.11/0.37	1770	1200	125	130 ... 150	360	220	155	140	148	280	462				
MES 01-07		10					2270	1700						160		320	474				
MES 01-08		12					2570	2000						180		360	486				
MES 01-09	3.2	7	20/6	EK 125 B	KK 1407-12/4	0.11/0.37	1770	1200	125	130 ... 150	360	220	155	160	148	300	474				
MES 01-10		10		EK 160 B	KK 1407-12/4	0.11/0.37	2340	1700	160		365	265	187	200		165	360	512			
MES 01-11		12					2640	2000						200							
MES 01-12	5	7	20/6	EK 160 B	KK 1407-12/4	0.11/0.37	1840	1200	160	130 ... 150	365	265	187	200	165	360	512				
MES 01-13		10					2340	1700	160					220			524				
MES 01-14		12					2640	2000						240			540				
MES 01-15	8	7	20/6	EK 160 B	KK 1407-12/4	0.11/0.37	1840	1200	160	130 ... 150	365	265	187	220	165	360	524				
MES 01-16		10					2340	1700						270			550				
MES 01-17		12					2640	2000						300			560				

5.2. Lichtart, Einscherung 4/1



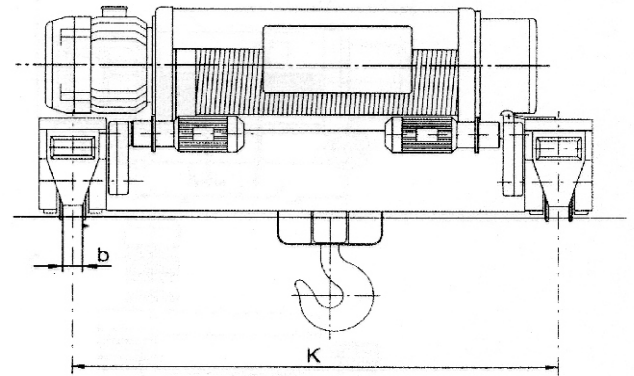
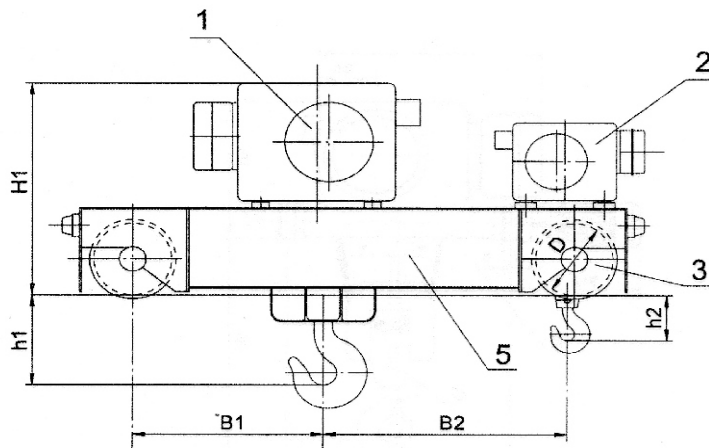
Art	H u b h ö h e	Kapazität kg	allgemeinen Abmessungen, mm																	
			L	L1		L2	Bo	B1	B3	B7	B14, max	H6	H8	D	b	d	e	e1	h1	
				V	V/M															
EKD 20/6 MHM 4-10 4/1 H... V4	6	4000	841	1025	1095	470	1000	730	50	254	480	505	525	160	50	10	15	27	175	
EKD 20/6 MHM 4-10 4/1 H... V4/1	9		841	1225	1295	570														
	12,5		1041	1425	1495	670														
EKD 20/6 MHM 4-16 4/1 H... V4	6	6300	841	1025	1095	470	1000	730	56	254	480	545	525	160	50	10	16	27	175	
EKD 20/6 MHM 4-16 4/1 H... V4/1	9		841	1225	1295	570														
	12,5		1041	1425	1495	670														
EKD 20/6 MHM 5-16 4/1 H... V4	5,5	6300	691	1090	1175	495	1000	730	56	254	480	545	525	160	50	12 (10)	15	27	175	
EKD 20/6 MHM 5-16 4/1 H... V4/1	8,5		911	1310	1395	605														
	11,5		1131	1630	1615	715														
	14,5		1351	1750	1835	825														
EKD 20/6 MHM 5-25 4/1 H... V4	5,5	10000	691	1120	1175	495	1000	730	71	264	480	685	525	160	50	12	16	27	175	
EKD 20/6 MHM 5-25 4/1 H... V4/1	8,5		911	1340	1395	605														
	11,5		1131	1660	1615	715														
	14,5		1351	1780	1835	825														
EKD 20/6 MH 6-25 4/1 H... V4	5	10000	863	1120	1210	505	1000	850	71	309	480	685	590	160	50	15 (13)	14	23	175	
EKD 20/6 MH 6-25 4/1 H... V4/1	8		863	1330	1420	610														
	11		1073	1540	1630	715														
	12,5		1178	1645	1735	770														
	15		1353	1820	1910	860														
EKD 20/6 MH 6-32 4/1 H... V4	5	12500	863	1155	1210	505	1200	850	71	309	480	685	630	200	60	15	14	23	215	
EKD 20/6 MH 6-32 4/1 H... V4/1	8		863	1365	1420	610														
	11		1073	1575	1630	715														
	12,5		1178	1680	1735	770														
	15		1353	1855	1910	860														
EKD 20/6 MH 7-32 4/1 H... V4	5	12500	993	1460	1495	675	1200	1000	71	369	760	765	740	200	60	18 (15)	23	22	215	
EKD 20/6 MH 7-32 4/1 H... V4/1	11		1208	1675	1710	785														
	14,5		1423	1890	1925	890														
	17,5		1633	2100	2135	995														
	20		1843	2310	2345	1100														
	23,5		2073	2540	2575	1215														
EKD 20/6 MH 7-40 4/1 H... V4	5	18000	993	1460	1495	675	1200	1000	71	369	760	765	740	200	60	18 (15)	23	22	215	
EKD 20/6 MH 7-40 4/1 H... V4/1	11		1208	1675	1710	785														
	14,5		1423	1890	1925	890														
	17,5		1633	2100	2135	995														
	20		1843	2310	2345	1100														
	23,5		2073	2540	2575	1215														
EKD 20/6 MH 7-50 4/1 H... V3,2	5	20000	993	1520	1550	730	1400	1000	90	380	760	815	800	250	60	18 (15)	23	22	265	
EKD 20/6 MH 7-50 4/1 H... V3,2/0,8	11		1208	1735	1765	837,5														
	14,5		1423	1950	1980	945														
	17,5		1633	2160	2190	1050														
	20		1843	2370	2400	1155														
	23,5		2073	2600	2630	1270														
EKD 20/6 MH 7-63 4/1 H... V2,6	7,5	25000	993	1520	1550	730	1400	1000	90	380	760	815	815	250	60	20 (18)	23	22	265	
EKD 20/6 MH 7-63 4/1 H... V2,6/0,65	10,5		1208	1735	1765	837,5														
	13		1423	1950	1980	945														
	16		1633	2160	2190	1050														
	18,5		1843	2370	2400	1155														
	22		2073	2600	2630	1270														
EKD 20/6 MH 7-80 4/1 H... V2,2	6,5	32000	993	1520	1550	730	1400	1000	90	380	760	815	850	320	60	22	23	22	337,5	
EKD 20/6 MH 7-80 4/1 H... V2,2/0,55	9		1208	1735	1765	837,5														
	11,5		1423	1950	1980	945														
	14		1633	2160	2190	1050														
	16,5		1843	2370	2400	1155														
	19		2073	2600	2630	1270														

5.2. Lichtart, Einscherung 4/1



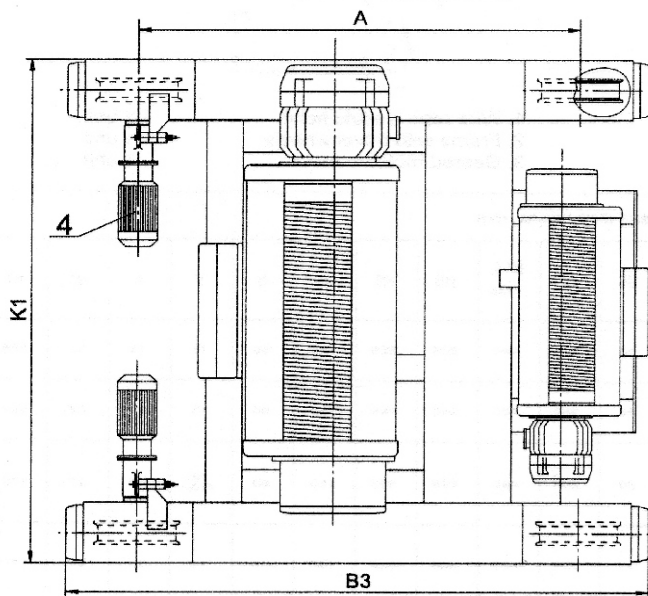
Art	H u b h ö h e	Kapazität kg	allgemeinen Abmessungen, mm																
			L1			L2	Bo	B1	B3	B7	B14, max	H6	H8	D	b	d	e	e1	h1
			L	V	V/M														
EKD 20/6 MHM 4-10 4/1 H... V4	6	4000	841	1025	1095	470	1000	730	50	254	480	505	525	160	50	10	15	27	175
EKD 20/6 MHM 4-10 4/1 H... V4/1	9		841	1225	1295	570													
	12,5		1041	1425	1495	670													
EKD 20/6 MHM 4-16 4/1 H... V4	8	6300	841	1025	1095	470	1000	730	56	254	480	545	525	160	50	10	15	27	175
EKD 20/6 MHM 4-16 4/1 H... V4/1	9		841	1225	1295	570													
	12,5		1041	1425	1495	670													
EKD 20/6 MHM 5-16 4/1 H... V4	5,5	6300	691	1090	1175	495	1000	730	56	254	480	545	525	160	50	12	15	27	175
EKD 20/6 MHM 5-16 4/1 H... V4/1	8,5		911	1310	1395	605													
	11,5		1131	1530	1615	715													
	14,5		1351	1750	1835	825													
EKD 20/6 MHM 5-25 4/1 H... V4	5,5	10000	891	1120	1175	495	1000	730	71	254	480	685	625	160	50	12	16	27	175
EKD 20/6 MHM 5-25 4/1 H... V4/1	8,5		911	1340	1395	605													
	11,5		1131	1660	1615	715													
	14,5		1351	1780	1835	825													
EKD 20/6 MH 6-25 4/1 H... V4	5	10000	853	1120	1210	505	1000	850	71	309	480	685	590	160	50	15	14	23	175
EKD 20/6 MH 6-25 4/1 H... V4/1	8		863	1330	1420	610													
	11		1073	1540	1630	715													
	12,5		1178	1645	1735	770													
	15		1353	1820	1910	860													
EKD 20/6 MH 6-32 4/1 H... V4	5	12500	863	1155	1210	505	1200	850	71	309	480	685	630	200	60	15	14	23	215
EKD 20/6 MH 6-32 4/1 H... V4/1	8		863	1365	1420	610													
	11		1073	1575	1630	715													
	12,5		1178	1680	1735	770													
	15		1353	1855	1910	860													
EKD 20/6 MH 7-32 4/1 H... V4	8	12500	993	1460	1495	675	1200	1000	71	369	760	765	740	200	60	18	23	22	215
EKD 20/6 MH 7-32 4/1 H... V4/1	11		1208	1675	1710	785													
	14,5		1423	1890	1925	890													
	17,5		1633	2100	2135	995													
	20		1843	2310	2345	1100													
	23,5		2073	2540	2575	1215													
EKD 20/6 MH 7-40 4/1 H... V4	8	16000	993	1480	1495	675	1200	1000	71	369	760	765	740	200	60	18	23	22	215
EKD 20/6 MH 7-40 4/1 H... V4/1	11		1208	1675	1710	785													
	14,5		1423	1890	1925	890													
	17,5		1633	2100	2135	995													
	20		1843	2310	2345	1100													
	23,5		2073	2540	2575	1215													
EKD 20/6 MH 7-50 4/1 H... V3,2	8	20000	993	1520	1550	730	1400	1000	90	380	760	815	800	250	60	18	23	22	265
EKD 20/6 MH 7-50 4/1 H... V3,2/0,8	11		1208	1735	1765	837,5													
	14,5		1423	1950	1980	945													
	17,5		1633	2160	2190	1050													
	20		1843	2370	2400	1155													
	23,5		2073	2600	2630	1270													
EKD 20/6 MH 7-63 4/1 H... V2,6	7,5	25000	993	1520	1550	730	1400	1000	90	380	760	815	815	250	60	20	23	22	265
EKD 20/6 MH 7-63 4/1 H... V2,6/0,65	10,5		1208	1735	1765	837,5													
	13		1423	1950	1980	945													
	16		1633	2160	2190	1050													
	18,5		1843	2370	2400	1155													
	22		2073	2600	2630	1270													
EKD 20/6 MH 7-80 4/1 H... V2,2	6,5	32000	993	1520	1550	730	1400	1000	90	380	760	815	860	320	60	22	23	22	337,5
EKD 20/6 MH 7-80 4/1 H... V2,2/0,55	9		1208	1735	1765	837,5													
	11,5		1423	1950	1980	945													
	14		1633	2160	2190	1050													
	16,5		1843	2370	2400	1155													
	19		2073	2600	2630	1270													

5.3. Mit zwei Hebe



- 1. Drahtseil Elektrokettenzug (Haupthub)
- 2. Drahtseil Elektrokettenzug (Zusatzhub)
- 3. Getriebemotor
- 4. Reiseräder blockieren
- 5. Frame

- 1 Einheit
- 1 Einheit
- 2 Einheit
- 2 Einheit - Fahren
- 2 Einheit - angetrieben
- 1 Einheit



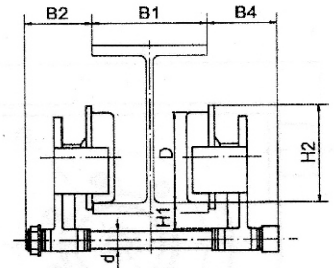
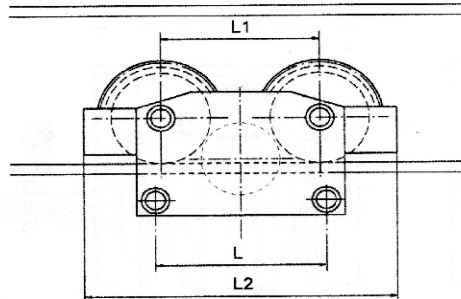
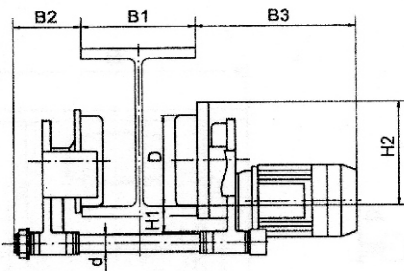
Hauptparameter und Abmessungen

Kapazität (haupt/zusatz) t	Hubhöhe (haupt/zusatz) m	Geschwindigkeit, m / min			Abmessungen, mm										
		Hauptlift	Zusatzlift	Reise	K	A	B1	B2	B3	K1	H1	h1	h2	D	b
16/3.2	14/17	4/1	8/2	20/6	2000	~1760	715	825	2400	2270	870	190	280	250	65
20/5	14/17	3.2/0.8				~1820	783	822		2275	963	515	295	320	70
32/8	14/17	2.2/0.5				~1920	805	900		2285	1053	425	335	400	85

Komponenten

Kapazität (haupt/zusatz) t	Pos. 1	Pos. 2	Pos. 3	Pos. 4
	Elektrische hissen (Haupthub) 1 Einheit	Elektrische hissen (Zusatzhub) 1 Einheit	Getriebemotor 2 Einheit	Reiseblockräder 2 Einheit - Fahr- und 2 Einheit - angetrieben
16/3.2	MH 7-40 4/1 H14 V4/1	MHM 5-16 2/1 H17 V8/2	TP1200-54 T90S-12/4R BRII	2 x MAM250 and 2 x MAL250
20/5	MH 7-50 4/1 H14.5 V3.2/0.8	MH 6-25 2/1 H16.5 V8/2	TP1200-69 T90S-12/4R BRII	2 x MAM320 and 2 x MAL320
32/8	MH 7-80 4/1 H14.5 V2.2/0.5	MH 7-40 2/1 H16.5 V8/2	TP1250-88 T90L-12/4R BRII	2 x MAM400 and 2 x MAL400

6. Einschienenkrankatzen



Art	D	Geschwindigkeit	Elektromotor		Max. Last	B1	B2, max	B3, max	B4	H1	H2	L	L1	L2	d
-	mm	m/min	Art	kW	kg	mm									

Art EK

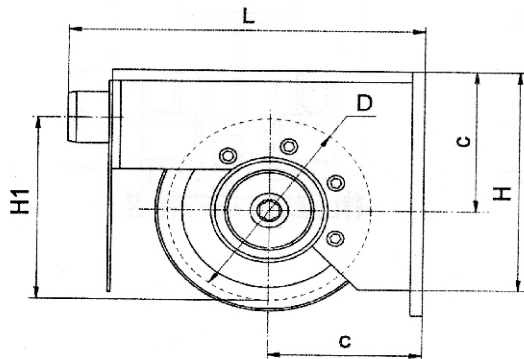
EK 100B-8	100	8	KK 1204-6A	0.12	1200	90 ... 130 130 ... 300	100	310	-	45	132	180	215	400	25
EK 100B-10		10													
EK 100B-12		12													
EK 100B-15		15													
EK 100B-20		20	KK 1204-6A	0.12											
EK 100B-32		32	KK 1204-4A	0.18											
EK 100B-12/4		12/4	KK 1405-12/4A	0.06/0.18											
EK 100B-15/5		15/5													
EK 100B-20/6.5		20/6.5													
EK 125B-8	125	8	KK 1405-6A	0.25	3650	130 ... 150 150 ... 300	115	360	-	42.5	155	200	240	450	35
EK 125B-10		10													
EK 125B-12		12													
EK 125B-15		15													
EK 125B-20		20	KK 1405-6A	0.25											
EK 125B-32		32	KK 1405-4A	0.37											
EK 125B-12/4		12/4	KK 1407-12/4A	0.11/0.37											
EK 125B-15/5		15/5													
EK 125B-20/6.5		20/6.5													
EK 125B-32/10		32/10													
EK 160B-8	160	8	KK 1405-6A	0.25	5650	130 ... 150 150 ... 300	120	365	-	45	187	225	280	520	45
EK 160B-10		10													
EK 160B-12		12													
EK 160B-15		15	KK 1405-4A	0.37											
EK 160B-20		20	KK 1405-6A	0.37											
EK 160B-32		32	KK 1407 - 4A	0.55											
EK 160B-12/4		12/4	KK 1407-12/4A	0.11/0.37											
EK 160B-15/5		15/5													
EK 160B-20/6.5		20/6.5													
EK 160B-32/10		32/10	KG II 1606 - 12/4	0.24/0.76											

Art SK

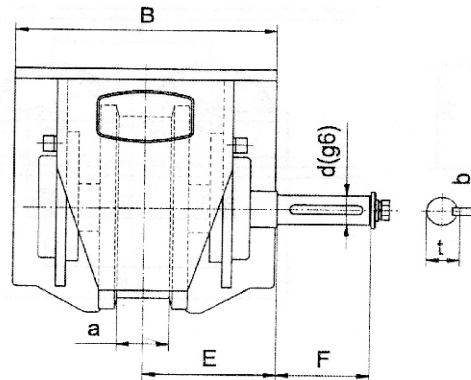
SK 100B	100	-	-	-	1200	90 ... 130 130 ... 300	100	-	73	45	114	180	215	400	25
SK 125B	125	-	-	-	3650	130 ... 150 150 ... 300	115	-	89	42.5	142	200	240	450	35
SK 160B	160	-	-	-	5650	130 ... 150 150 ... 300	120	-	97	45	176	225	280	520	45

7. Blockreiseräder

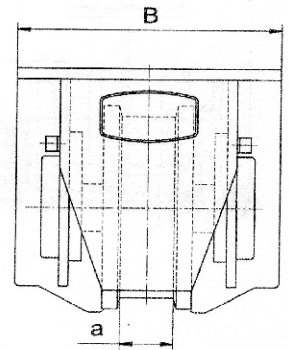
Diagramm



Typ MAM ...- Antrieb



Typ MAL ... - angetrieben



Bezeichnung	Größe												Weight
	D	L	H	H1	B	a	c	d	E	F	b	t	
	mm												kg
MAM 125	125	288	172	132	200	55	125	30	103	95	8	33	28
MAL 125								-	-	-	-	-	27
MAM 160	160	304	200	160	240	55	160	30	123	95	8	33	40
MAL 160								-	-	-	-	-	39
MAM 200	200	354	250	200	270	65	165	40	138	116	12	43	68
MAL 200								-	-	-	-	-	66
MAM 250	250	438	300	250	324	65	190	40	165	116	12	43	94
MAL 250								-	-	-	-	-	92
MAM 320	320	526	375	291	324	70	230	50	165	140	14	53.5	167
MAL 320								-	-	-	-	-	164
MAM 400	400	596	465	370	365	85	280	50	185.5	140	14	53.5	236
MAL 400								-	-	-	-	-	232

Bemerkungen:

*) Bei der Bestellung muss der Kunde zu Größen geben d, F, b und t, wenn sie sich von den Größen in der Tabelle sind

Maximal zulässige statische Belastungen auf Laufräder - R max (kg)

D	Schiene	Ressource bis	Arbeitsweise	Rmax						M	
				Geschwindigkeit, m / min							
				10	20	30	40	50	60	Mnom	Mmax
mm		Stunden	-	kg						Nm	
125	□40	800	1Am	4200	3800	3700	3400	3100	2800	288	1384
		1600	2m	3400	3000	2800	2500	2100	1800		
		3200	3m	2900	2700	2500	2300	2000	1700		
		6300	4m	2400	2200	2000	1800	1600	1400		
		12500	5m	2000	1800	1600	1400	1200	1000		
160	□40	800	1Am	4800	4300	4100	4000	3800	3600	288	1384
		1600	2m	4300	4100	3600	3400	3200	3000		
		3200	3m	3600	3300	2900	2700	2500	2300		
		6300	4m	3100	2700	2400	2100	1900	1700		
		12500	5m	2600	2200	1900	1600	1400	1200		
200	□50	800	1Am	6900	6700	6400	5000	4800	4600	684	3284
		1600	2m	6000	5900	5100	4500	4200	3900		
		3200	3m	4900	4800	4100	3800	3400	3000		
		6300	4m	4000	3900	3100	2800	2500	2200		
		12500	5m	3100	3000	2200	1900	1500	1300		
250	□50	800	1Am	8800	8600	8500	8300	8000	7500	684	3284
		1600	2m	8700	8500	7700	7000	6000	5000		
		3200	3m	8300	7000	6200	5600	5000	4000		
		6300	4m	7000	5600	4800	4400	4000	3500		
		12500	5m	5000	4600	3800	3400	2800	2000		
320	□50	800	1Am	11500	11300	10800	10700	10500	10200	1328	6378
		1600	2m	11200	10900	10500	10000	9000	8500		
		3200	3m	10800	10000	8500	8000	7000	6000		
		6300	4m	8500	7900	6800	6200	5200	4600		
		12500	5m	7000	6400	5300	4700	3700	2900		
400	□70	800	1Am	16300	15800	15200	14300	13400	12000	1328	6378
		1600	2m	14800	14400	13800	13100	12400	11000		
		3200	3m	12500	11900	11500	11000	10000	9000		
		6300	4m	10800	10000	9000	8300	7500	6200		
		12500	5m	9400	8500	7500	6800	5500	4500		