DEMAG
Cranes & Components

Demag ZKKE standard double-girder overhead travelling crane

with EZDR double-rail crab

Dimension catalogue

Description

Crane girders

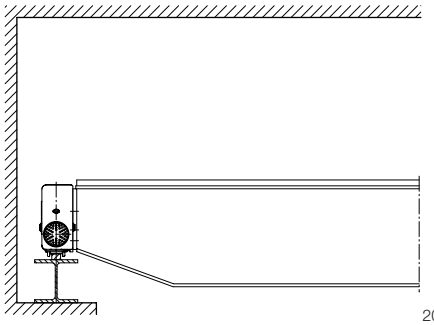
The steel superstructure is specified to DIN 15018, hoisting class H2, loading group B3 for indoor operations (other classifications on request). The crane girder and the end carriages, of welded box-section design, are connected by high-tensile HV screws. The perfectly reproducible crane geometry (precondition for good travel characteristics) is achieved by machining of the connecting surfaces to engineering tolerances, exact measurement and precise adjustment in the plant.

All design and production procedures as well as the component parts are subjected to a permanent and comprehensive quality control to DIN ISO 9001.

Standard crane girder designs

Design 1

for existing building clearance dimensions with limited dimension X and dimension U>0



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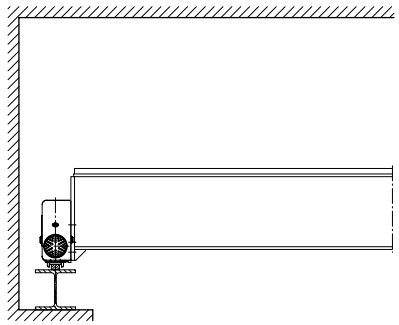
Special crane girder designs

Design 2

Raised U ≤ 150



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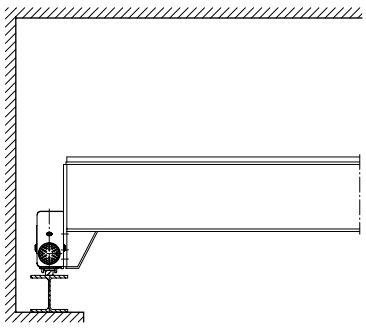
Design 3

Raised U ≥ 150



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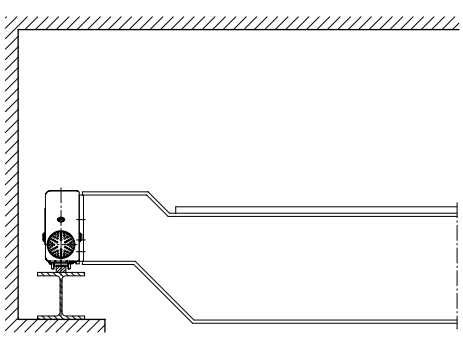
Design 4



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For further information, please refer to the fold out page

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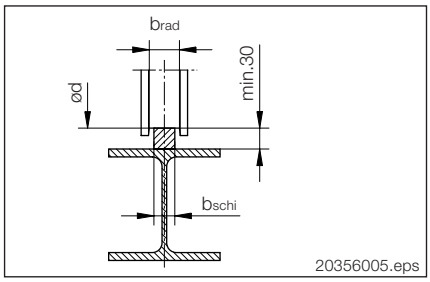
Crane end carriages

The end carriage consists of the welded box structure, the driven wheel block with geared motor and the non-driven wheel block. The travel wheel is made of wear-resistant spheroidal graphite cast iron (minimum tensile strength = 700 N/mm²). The design features include high durability due to roller bearings which are lubricated for life in the wheel bearing, track gauge changes by means of spacer elements and drive arrangements optionally to the right or left.

Documentation: 203 379 44 DFW-L-Z end carriages

Travel wheel tread

DFW-L-Z end carriage	Dimensions in mm	
Size	max brad	max bschi
160	65	50
200	65	50
250	70	55



Long travel drives

Virtually maintenance-free single drives drive one travel wheel on each side of the crane.

The integrated flywheel mass of the cylindrical rotor motor ensures smooth starting of the crane and the special motor winding allows a high number of starts and stops. The disk brake integrated in the motor is spring-actuated and features electro-magnetic release. It is controlled independently of the motor and causes no axial movement of the rotor shaft or forces on the bearings.

Long travel speeds: V_{kr}= 10/40 m/min (pole-changing motor)
V_{kr}= 60 m/min (infinitely variable)
(other speeds on request)

Documentation: 203 351 44 Travel unit components
203 356 44 Geared travel motors

Double-rail crab

Compact double-rail crabs type EZ with Demag DR 5 and 10 rope hoist.

Cross travel speeds: V_{ka}= 1,5 – 30 m/min (infinitely variable)
by means of cylindrical rotor motors
with frequency inverter

Documentation: 203 648 44 EZDR 5, 10-Pro

Power supply to the crab

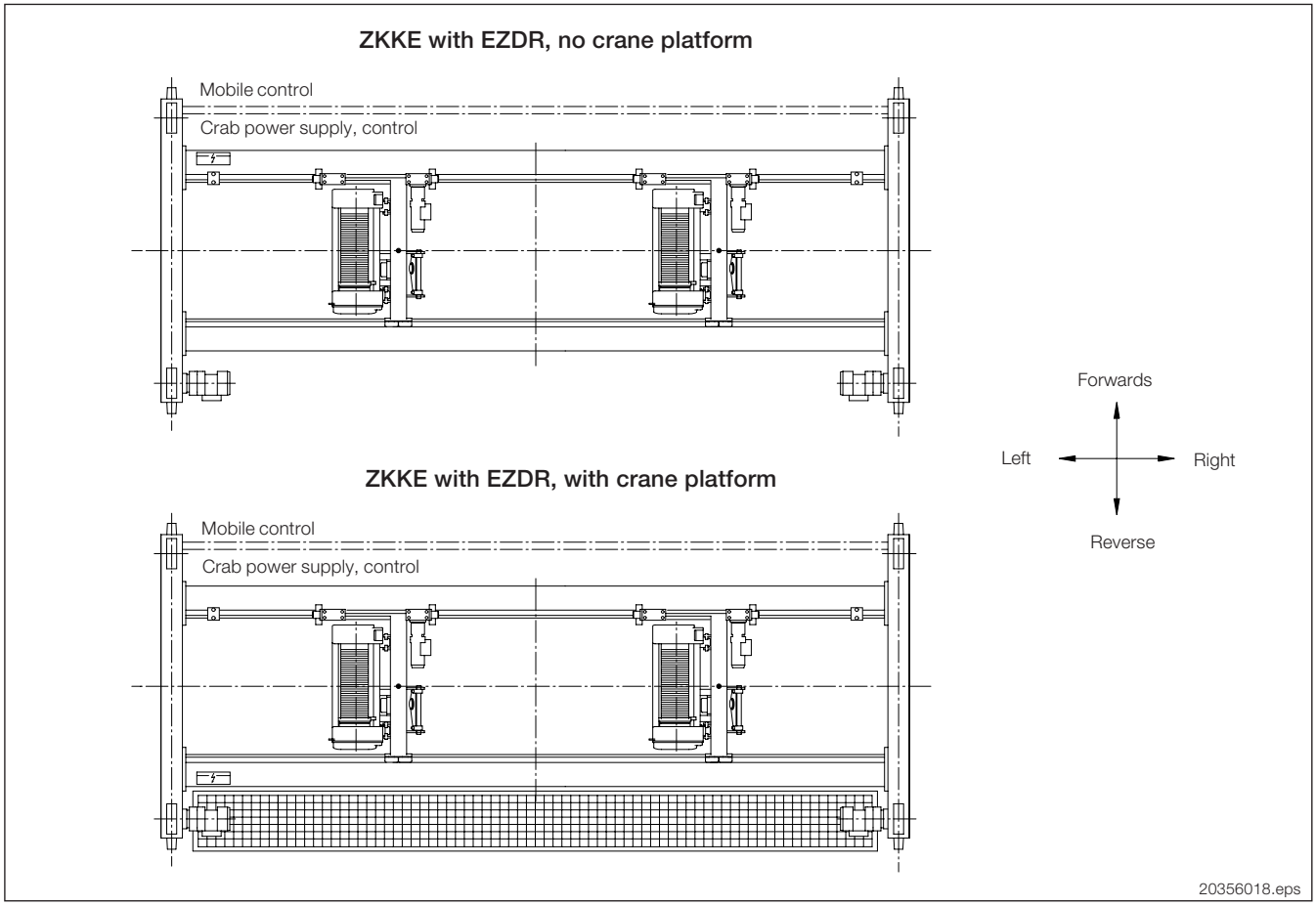
Transmission of power and control commands from the electrical equipment enclosure of the crane to the crab is via a trailing cable system featuring highly flexible flat cables with KBK 25 (KBK 25 profile girder section).

A protective earth conductor is always installed. In accordance with the VDE regulations, a crane switch is provided.

Crane controls

All motions of the crane are controlled via an integrated CAN BUS system. The crane is controlled from the ground optionally by means of:

- Demag Line Control pendants which can travel independently of the crab position or are fixed on the crab,
- Demag Radio Control wireless radio control systems.



Corrosion protection

After a thorough pre-treatment (degree of purity Sa2 to DIN 55928), the steel parts are given a paint finish of synthetic resin-based paint (semi-matt golden yellow; min. coat thickness 60 µm).

Crab 2-colour power-coated in azure blue and silver grey (RAL 5009 and RAL 7001; coat thickness 80 µm).

Travel drives in azure blue (RAL 5009).

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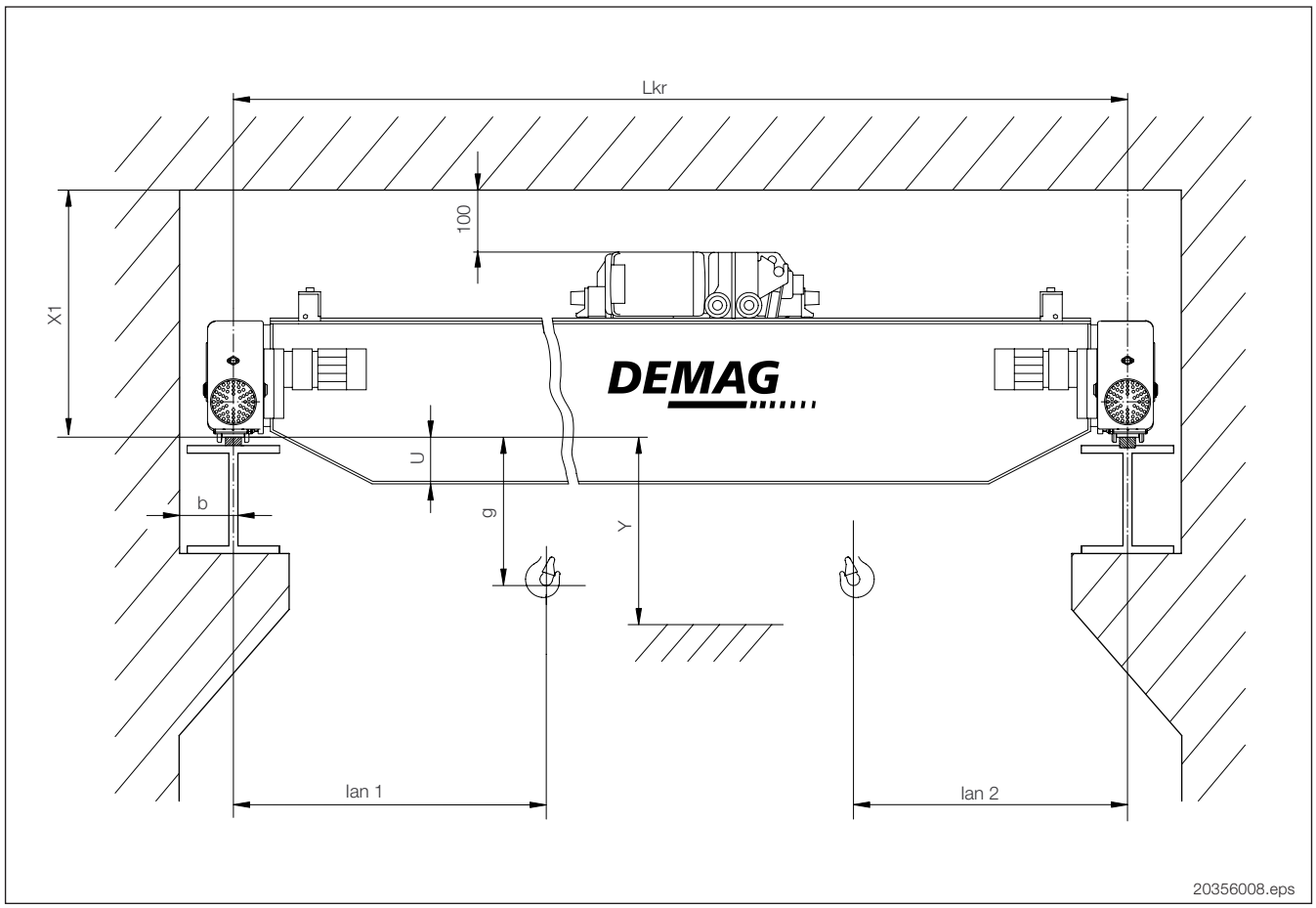
Demag ZKKE standard double-girder overhead travelling crane

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1 x EZDR



Type designation

DFW-L-Z 160 / 2500 / S

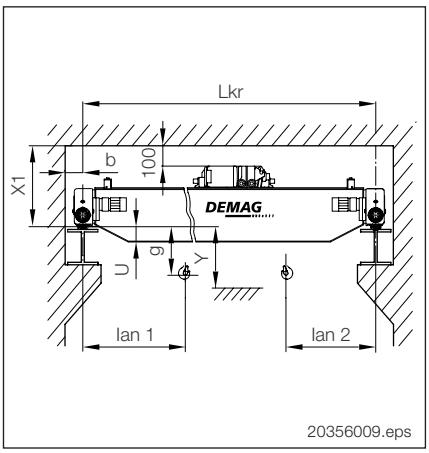
- Side connection
- Wheel base ekt
- Travel wheel diameter d
- Demag end carriage type Z

EZDR 10 - 8 4/1 FEM 3m

- Rope reeving
- SWL in t
- Range 5; 10
- Double-rail crab with Demag rope hoist type DR

ZKKE without crane platform SWL 3,2 t

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1x EZDR 5 - 3,2 4/1 FEM 4m



Hook path: 10 or 6 m; lifting speed: 9/1,5 m/min or 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
5	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
6	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
7	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
8	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
9	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
10	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
11	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
12	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
13	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
14	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
15	808	708	70	1090	700	22	570	1400	1422,5	1569,5	160	2500	2992	100	175
16	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
17	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
18	808	708	170	1090	700	22	670	1400	1422,5	1569,5	160	2500	2992	100	175
19	810	710	172	1090	700	20	672	1400	1422,5	1569,5	160	2500	2992	100	175
20	808	708	268	1090	700	22	768	1400	1747,5	1894,5	160	3150	3642	100	175
21	808	708	270	1090	700	22	770	1400	1747,5	1894,5	160	3150	3642	100	175
22	808	708	272	1090	700	22	772	1400	1747,5	1894,5	160	3150	3642	100	175
23	808	708	270	1090	700	22	770	1400	1747,5	1894,5	160	3150	3642	100	175
24	808	708	368	1090	700	22	868	1400	1767,5	1914,5	160	3150	3682	130	175
25	895	795	281	110	710	-65	781	2240	2225,5	2372,5	200	4000	4598	130	175
26	895	795	281	1100	710	-65	781	2240	2225,5	2372,5	200	4000	4598	130	175
27	895	795	381	1100	710	-65	881	2240	2225,5	2372,5	200	4000	4598	130	175
28	895	795	381	1100	710	-65	881	2240	2225,5	2372,5	200	4000	4598	130	175
29	897	797	383	1100	710	-67	883	2240	2225,5	2372,5	200	4000	4598	130	175
30	897	797	385	1100	710	-67	885	2240	2225,5	2372,5	200	4000	4598	130	175

All dimensions in mm (L_{KR} in m).
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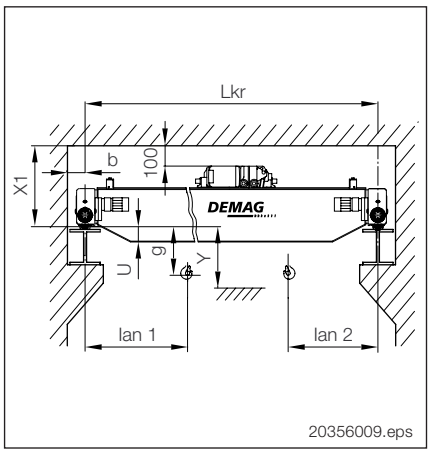
ZKKE without crane platform SWL 5 t

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1x EZDR 5 - 5 4/1 H20



Hook path: 10 or 6 m; lifting speed: 6/1 m/min; 9/1,5 m/min or 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
5	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
6	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
7	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
8	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
9	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
10	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
11	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
12	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
13	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
14	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
15	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
16	808	708	170	1090	700	22	670	1400	1422,5	1569,5	160	2500	2992	100	175
17	808	708	268	1090	700	22	768	1400	1422,5	1569,5	160	2500	2992	100	175
18	808	708	268	1090	700	22	768	1400	1422,5	1569,5	160	2500	2992	100	175
19	808	708	270	1090	700	22	770	1400	1422,5	1569,5	160	2500	2992	100	175
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21	808	708	270	1090	700	22	770	1400	1747,5	1894,5	160	3150	3642	100	175
22	810	710	270	1090	700	20	770	1400	1747,5	1894,5	160	3150	3642	100	175
23	808	708	368	1090	700	22	868	1400	1767,5	1914,5	160	3150	3682	130	175
24	808	708	370	1090	700	22	870	1400	1767,5	1914,5	160	3150	3682	130	175
25	895	795	381	1100	710	-65	881	2240	2225,5	2372,5	200	4000	4598	130	175
26	895	795	381	1100	710	-65	881	2240	2225,5	2372,5	200	4000	4598	130	175
27	895	795	481	1100	710	-65	981	2240	2225,5	2372,5	200	4000	4598	130	175
28	895	795	481	1100	710	-65	981	2240	2225,5	2372,5	200	4000	4598	130	175
29	895	795	483	1100	710	-65	983	2240	2225,5	2372,5	200	4000	4598	130	175
30	897	797	485	1100	710	-67	985	2240	2225,5	2372,5	200	4000	4598	130	175

All dimensions in mm (L_{KR} in m).
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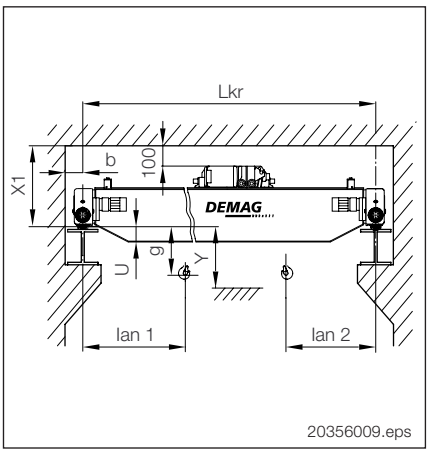
ZKKE without crane platform SWL 6,3 t

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1x EZDR 10 - 6,3 4/1 H20



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Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
5	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
6	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
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8	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
9	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
10	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
11	808	708	168	1090	700	37	668	1400	1319,5	1672,5	160	2500	2992	100	175
12	808	708	168	1090	700	37	668	1400	1319,5	1672,5	160	2500	2992	100	175
13	808	708	170	1090	700	37	670	1400	1319,5	1672,5	160	2500	2992	100	175
14	810	710	172	1090	700	35	672	1400	1319,5	1672,5	160	2500	2992	100	175
15	810	710	175	1090	700	35	675	1400	1319,5	1672,5	160	2500	2992	100	175
16	808	708	270	1090	700	37	770	1400	1319,5	1672,5	160	2500	2992	100	175
17	810	710	272	1090	700	35	772	1400	1319,5	1672,5	160	2500	2992	100	175
18	812	712	272	1090	700	33	772	1400	1319,5	1672,5	160	2500	2992	100	175
19	808	708	370	1090	700	37	870	1400	1319,5	1672,5	160	2500	2992	100	175
20	808	708	368	1090	700	37	868	1400	1644,5	1997,5	160	3150	3642	100	175
21	808	708	368	1090	700	37	868	1400	1644,5	1997,5	160	3150	3642	100	175
22	808	708	370	1090	700	37	870	1400	1664,5	2017,5	160	3150	3682	130	175
23	810	710	370	1090	700	35	870	1400	1664,5	2017,5	160	3150	3682	130	175
24	808	708	468	1090	700	37	968	1400	1664,5	2017,5	160	3150	3682	130	175
25	895	795	383	1100	710	-50	883	2240	2216,5	2381,5	200	4000	4598	130	175
26	897	797	383	1100	710	-52	883	2240	2216,5	2381,5	200	4000	4598	130	175
27	897	797	481	1100	710	-52	981	2240	2216,5	2381,5	200	4000	4598	130	175
28	895	795	483	1100	710	-50	983	2240	2216,5	2381,5	200	4000	4598	130	175
29	895	795	581	1100	710	-50	1081	2240	2216,5	2381,5	200	4000	4598	130	175
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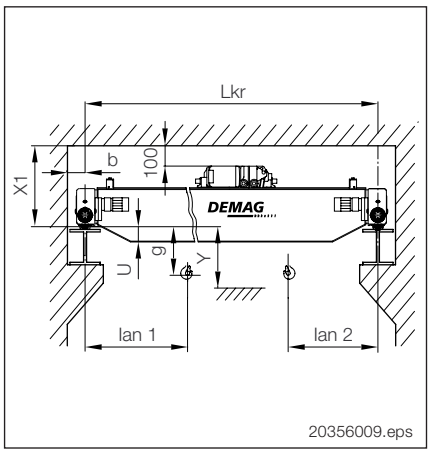
ZKKE without crane platform SWL 8 t

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1x EZDR 10 - 8 4/1 H20



Hook path 10 or 6 m; lifting speed: 6/1 m/min; 9/1,5 m/min or 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
5	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
6	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
7	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
8	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
9	808	708	70	1090	700	37	570	1400	1319,5	1672,5	160	2500	2992	100	175
10	810	710	72	1090	700	35	572	1400	1319,5	1672,5	160	2500	2992	100	175
11	808	708	168	1090	700	37	668	1400	1319,5	1672,5	160	2500	2992	100	175
12	810	710	170	1090	700	35	670	1400	1319,5	1672,5	160	2500	2992	100	175
13	808	708	268	1090	700	37	768	1400	1319,5	1672,5	160	2500	2992	100	175
14	808	708	268	1090	700	37	768	1400	1319,5	1672,5	160	2500	2992	100	175
15	810	710	270	1090	700	35	770	1400	1319,5	1672,5	160	2500	2992	100	175
16	810	710	275	1090	700	35	775	1400	1319,5	1672,5	160	2500	2992	100	175
17	810	710	370	1090	700	35	870	1400	1319,5	1672,5	160	2500	2992	100	175
18	810	710	372	1090	700	35	872	1400	1319,5	1672,5	160	2500	2992	100	175
19	808	708	468	1090	700	37	968	1400	1319,5	1672,5	160	2500	2992	100	175
20	808	708	468	1090	700	37	968	1400	1664,5	2017,5	160	3150	3682	130	175
21	808	708	468	1090	700	37	968	1400	1664,5	2017,5	160	3150	3682	130	175
22	808	708	468	1090	700	37	968	1400	1664,5	2017,5	160	3150	3682	130	175
23	808	708	468	1090	700	37	968	1400	1664,5	2017,5	160	3150	3682	130	175
24	808	708	470	1090	700	37	970	1400	1664,5	2017,5	160	3150	3682	130	175
25	895	795	481	1100	710	-50	981	2240	2216,5	2381,5	200	4000	4598	130	175
26	895	795	481	1100	710	-50	981	2240	2216,5	2381,5	200	4000	4598	130	175
27	897	797	483	1100	710	-52	983	2240	2216,5	2381,5	200	4000	4598	130	175
28	895	795	581	1100	710	-50	1081	2240	2216,5	2381,5	200	4000	4598	130	175
29	895	795	581	1100	710	-50	1081	2240	2216,5	2381,5	200	4000	4598	130	175
30	897	797	581	1100	710	-52	1081	2240	2216,5	2381,5	200	4000	4598	130	175

All dimensions in mm (L_{KR} in m).
For further information, refer to the fold out page.
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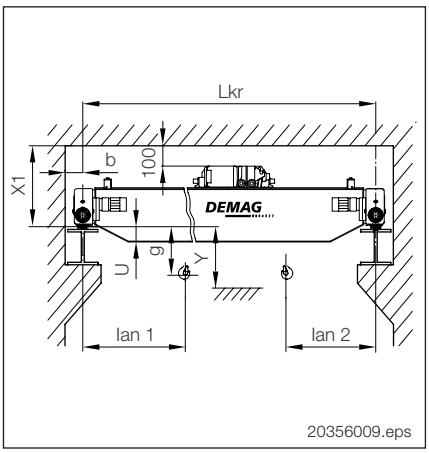
ZKKE without crane platform SWL 10 t

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1x EZDR 10 - 10 4/1 H20



Hook path 10 or 6 m; lifting speed: 6/1 m/min; 9/1,5 m/min or 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage							
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
5	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
6	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
7	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
8	808	708	68	1090	700	37	568	1400	1319,5	1672,5	160	2500	2992	100	175
9	810	710	72	1090	700	35	572	1400	1319,5	1672,5	160	2500	2992	100	175
10	808	708	168	1090	700	37	668	1400	1319,5	1672,5	160	2500	2992	100	175
11	810	710	170	1090	700	35	670	1400	1319,5	1672,5	160	2500	2992	100	175
12	808	708	268	1090	700	37	768	1400	1319,5	1672,5	160	2500	2992	100	175
13	808	708	270	1090	700	37	770	1400	1319,5	1672,5	160	2500	2992	100	175
14	810	710	275	1090	700	35	775	1400	1319,5	1672,5	160	2500	2992	100	175
15	808	708	368	1090	700	37	868	1400	1319,5	1672,5	160	2500	2992	100	175
16	897	797	283	1100	710	-52	783	1400	1352,5	1705,5	200	2500	3058	100	175
17	899	799	285	1100	710	-54	785	1400	1352,5	1705,5	200	2500	3058	100	175
18	897	797	381	1100	710	-52	881	1400	1352,5	1705,5	200	2500	3058	100	175
19	897	797	383	1100	710	-52	883	1400	1352,5	1705,5	200	2500	3058	100	175
20	895	795	381	1100	710	-50	881	1400	1697,5	2050,5	200	3150	3748	130	175
21	897	797	381	1100	710	-52	881	1400	1697,5	2050,5	200	3150	3748	130	175
22	897	797	383	1100	710	-52	883	1400	1697,5	2050,5	200	3150	3748	130	175
23	899	799	385	1100	710	-54	885	1400	1697,5	2050,5	200	3150	3748	130	175
24	897	797	483	1100	710	-52	983	1400	1697,5	2050,5	200	3150	3748	130	175
25	897	797	483	1100	710	-52	983	2240	2216,5	2381,5	200	4000	4598	130	175
26	899	799	483	1100	710	-54	983	2240	2216,5	2381,5	200	4000	4598	130	175
27	895	795	581	1100	710	-50	1081	2240	2216,5	2381,5	200	4000	4598	130	175
28	897	797	583	1100	710	-52	1083	2240	2216,5	2381,5	200	4000	4598	130	175
29	895	795	583	1100	710	-50	1083	2240	2216,5	2381,5	200	4000	4598	130	175
30	897	797	585	1100	710	-52	1085	2240	2248,5	2413,5	200	4000	4662	160	175

All dimensions in mm (L_{KR} in m).
For further information, refer to the fold out page.
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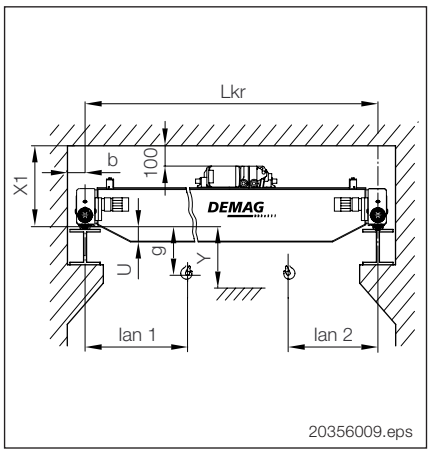
203561K2.p65/180405

ZKKE without crane platform SWL 12,5 t

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1x EZDR 10 - 12,5 6/1 H20



Hook path 6,7 m; lifting speed: 6/1 m/min; 2,7/0,4 m/min or 0,7 – 6 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	958	858	68	1100	1000	347	568	1400	1291,5	1700,5	160	2500	2992	100	175
5	958	858	68	1100	1000	347	568	1400	1291,5	1700,5	160	2500	2992	100	175
6	958	858	68	1100	1000	347	568	1400	1291,5	1700,5	160	2500	2992	100	175
7	1045	945	-19	1110	1010	260	481	1400	1324,5	1733,5	200	2500	3058	100	175
8	1047	947	-15	1110	1010	258	485	1400	1324,5	1733,5	200	2500	3058	100	175
9	1045	945	81	1110	1010	260	581	1400	1324,5	1733,5	200	2500	3058	100	175
10	1047	947	83	1110	1010	258	583	1400	1324,5	1733,5	200	2500	3058	100	175
11	1047	947	181	1110	1010	258	681	1400	1324,5	1733,5	200	2500	3058	100	175
12	1049	949	183	1110	1010	256	683	1400	1324,5	1733,5	200	2500	3058	100	175
13	1045	945	281	1110	1010	260	781	1400	1324,5	1733,5	200	2500	3058	100	175
14	1047	947	281	1110	1010	258	781	1400	1324,5	1733,5	200	2500	3058	100	175
15	1047	947	285	1110	1010	258	785	1400	1324,5	1733,5	200	2500	3058	100	175
16	1045	945	381	1110	1010	260	881	1400	1324,5	1733,5	200	2500	3058	100	175
17	1047	947	383	1110	1010	258	883	1400	1324,5	1733,5	200	2500	3058	100	175
18	1049	949	385	1110	1010	256	885	1400	1344,5	1753,5	200	2500	3098	130	175
19	1052	952	388	1110	1010	253	888	1400	1344,5	1753,5	200	2500	3098	130	175
20	1045	945	481	1110	1010	260	981	1400	1669,5	2078,5	200	3150	3748	130	175
21	1045	945	481	1110	1010	260	981	1400	1669,5	2078,5	200	3150	3748	130	175
22	1045	945	483	1110	1010	260	983	1400	1669,5	2078,5	200	3150	3748	130	175
23	1049	949	483	1110	1010	256	983	1400	1669,5	2078,5	200	3150	3748	130	175
24	1045	945	583	1110	1010	260	1083	1400	1669,5	2078,5	200	3150	3748	130	175
25	1063	963	565	1100	1000	242	1065	2240	2266,5	2375,5	250	4000	4642	130	200
26	1063	963	565	1100	1000	242	1065	2240	2266,5	2375,5	250	4000	4642	130	200
27	1065	965	567	1100	1000	240	1067	2240	2266,5	2375,5	250	4000	4642	130	200
28	1065	965	565	1100	1000	240	1065	2240	2298,5	2407,5	250	4000	4706	160	200
29	1067	967	567	1100	1000	238	1067	2240	2298,5	2407,5	250	4000	4706	160	200
30	1067	967	570	1100	1000	238	1070	2240	2298,5	2407,5	250	4000	4706	160	200

All dimensions in mm (L_{KR} in m).
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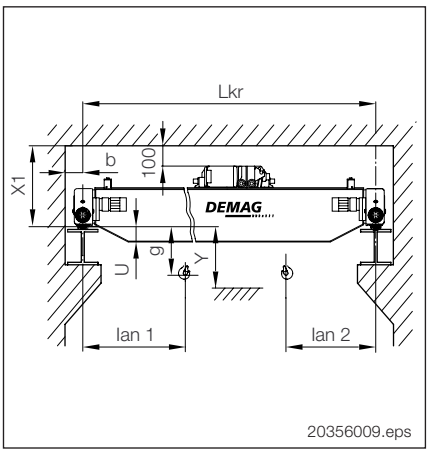
ZKKE without crane platform SWL 16 t

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 1x EZDR 10 - 16 6/1 H20



Hook path 6,7 m; lifting speed: 6/1 m/min; 2,7/0,4 m/min or 0,7 – 6 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	1045	945	-19	1110	1010	260	481	1400	1324,5	1733,5	200	2500	3058	100	175
5	1045	945	-19	1110	1010	260	481	1400	1324,5	1733,5	200	2500	3058	100	175
6	1045	945	-19	1110	1010	260	481	1400	1324,5	1733,5	200	2500	3058	100	175
7	1047	947	-17	1110	1010	258	483	1400	1324,5	1733,5	200	2500	3058	100	175
8	1045	945	81	1110	1010	260	581	1400	1324,5	1733,5	200	2500	3058	100	175
9	1047	947	83	1110	1010	258	583	1400	1324,5	1733,5	200	2500	3058	100	175
10	1045	945	181	1110	1010	260	681	1400	1324,5	1733,5	200	2500	3058	100	175
11	1047	947	183	1110	1010	258	683	1400	1324,5	1733,5	200	2500	3058	100	175
12	1045	945	281	1110	1010	260	781	1400	1324,5	1733,5	200	2500	3058	100	175
13	1065	965	265	1100	1000	240	765	1400	1346,5	1755,5	250	2500	3102	100	200
14	1065	965	365	1100	1000	240	865	1400	1346,5	1755,5	250	2500	3102	100	200
15	1065	965	365	1100	1000	240	865	1400	1346,5	1755,5	250	2500	3102	100	200
16	1070	970	465	1100	1000	235	965	1400	1346,5	1755,5	250	2500	3102	100	200
17	1070	970	465	1100	1000	235	965	1400	1366,5	1775,5	250	2500	3142	130	200
18	1070	970	465	1100	1000	235	965	1400	1366,5	1775,5	250	2500	3142	130	200
19	1070	970	470	1100	1000	235	970	1400	1366,5	1775,5	250	2500	3142	130	200
20	1065	965	465	1100	1000	240	965	1400	1691,5	2100,5	250	3150	3792	130	200
21	1067	967	467	1100	1000	238	967	1400	1691,5	2100,5	250	3150	3792	130	200
22	1070	970	467	1100	1000	235	967	1400	1691,5	2100,5	250	3150	3792	130	200
23	1070	970	470	1100	1000	235	970	1400	1691,5	2100,5	250	3150	3792	130	200
24	1070	970	565	1100	1000	235	1065	1400	1691,5	2100,5	250	3150	3792	130	200
25	1070	970	565	1100	1000	235	1065	2240	2266,5	2375,5	250	4000	4642	130	200
26	1070	970	565	1100	1000	235	1065	2240	2266,5	2375,5	250	4000	4642	130	200
27	1063	963	713	1100	1000	242	1213	2240	2266,5	2375,5	250	4000	4642	130	200
28	1063	963	713	1100	1000	242	1213	2240	2266,5	2375,5	250	4000	4642	130	200
29	1065	965	713	1100	1000	240	1213	2240	2298,5	2407,5	250	4000	4706	160	200
30	1067	967	715	1100	1000	238	1215	2240	2298,5	2407,5	250	4000	4706	160	200

All dimensions in mm (L_{KR} in m).
For further information, refer to the fold out page.
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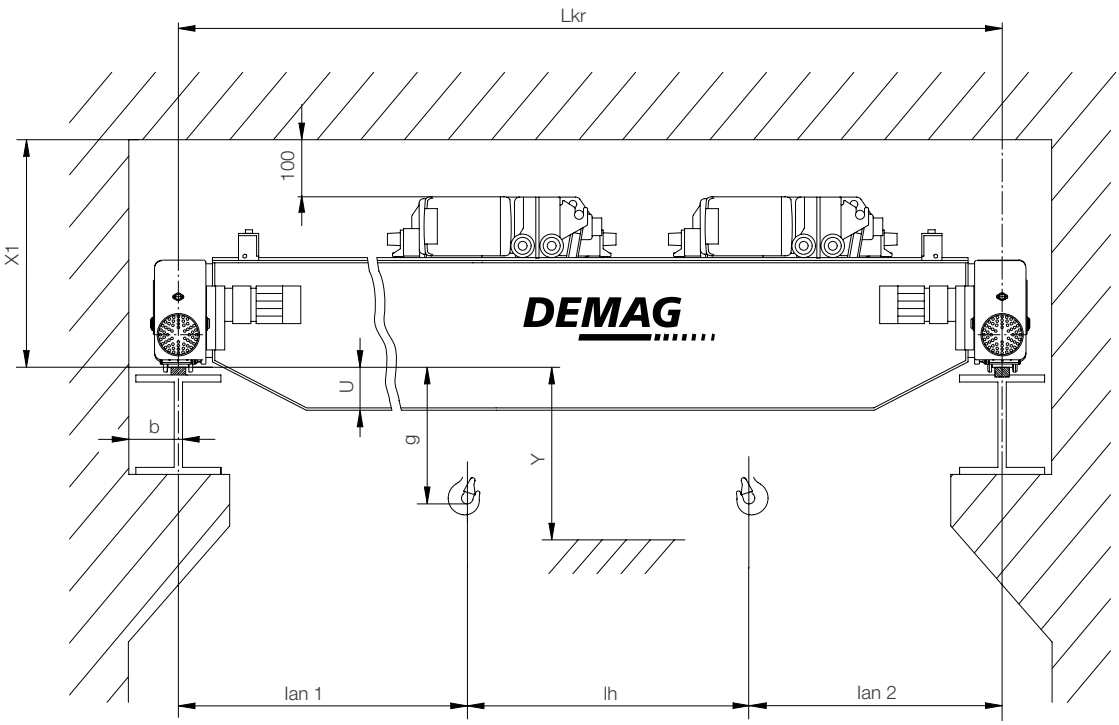
Demag ZKKE standard double-girder overhead travelling crane

Crane girders: Box-girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 2 x EZDR



Demag rope hoist	Range	Reeving	lh ≥ mm
EZDR	5	2/1, 4/1	1250
	10		

20356010.eps

Type designation

DFW-L-Z 160 / 2500 / S

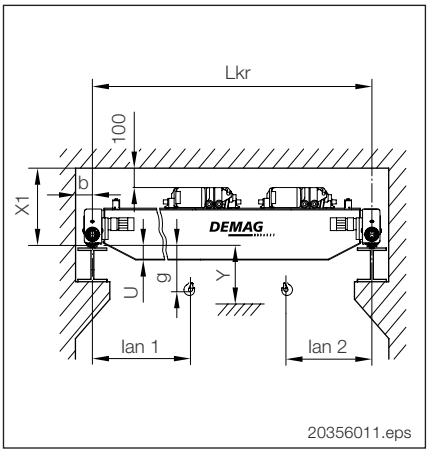
- Side connection
- Wheel base ekt
- Travel wheel diameter d
- Demag end carriage type Z

EZDR 10 - 8 4/1 FEM 3m

- Reeving
- SWL in t
- Range 3; 5; 10
- Double-rail crab with Demag rope hoist type DR

ZKKE without platform SWL 2 x 3,2 t

Crane girders: Box girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 2 x EZDR 5 - 3,2 4/1 FEM 4m



Hook path: 10 or 6 m; lifting speed: 9/1,5 m/min; 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage							
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
5	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
6	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
7	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
8	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
9	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
10	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
11	808	708	70	1090	700	22	570	1400	1422,5	1569,5	160	2500	2992	100	175
12	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
13	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
14	808	708	170	1090	700	22	670	1400	1422,5	1569,5	160	2500	2992	100	175
15	810	710	172	1090	700	20	672	1400	1422,5	1569,5	160	2500	2992	100	175
16	808	708	268	1090	700	22	768	1400	1422,5	1569,5	160	2500	2992	100	175
17	808	708	270	1090	700	22	770	1400	1422,5	1569,5	160	2500	2992	100	175
18	810	710	272	1090	700	20	772	1400	1422,5	1569,5	160	2500	2992	100	175
19	808	708	368	1090	700	22	868	1400	1422,5	1569,5	160	2500	2992	100	175
20	808	708	368	1090	700	22	868	1400	1747,5	1894,5	160	3150	3642	100	175
21	808	708	368	1090	700	22	868	1400	1767,5	1914,5	160	3150	3682	130	175
22	808	708	368	1090	700	22	868	1400	1767,5	1914,5	160	3150	3682	130	175
23	810	710	370	1090	700	20	870	1400	1767,5	1914,5	160	3150	3682	130	175
24	808	708	468	1090	700	22	968	1400	1767,5	1914,5	160	3150	3682	130	175
25	895	795	383	1100	710	-65	883	2240	2225,5	2372,5	200	4000	4598	130	175
26	897	797	385	1100	710	-67	885	2240	2225,5	2372,5	200	4000	4598	130	175
27	895	795	483	1100	710	-65	983	2240	2225,5	2372,5	200	4000	4598	130	175
28	897	797	483	1100	710	-67	983	2240	2225,5	2372,5	200	4000	4598	130	175
29	899	799	485	1100	710	-69	985	2240	2225,5	2372,5	200	4000	4598	130	175
30	897	797	583	1100	710	-67	1083	2240	2225,5	2372,5	200	4000	4598	130	175

All dimensions in mm (L_{KR} in m).
For further information, refer to the fold out page.
All structural dimensions, approach dimensions and information on the crane runway dimensions are based on the standard design 1 presented in this catalogue. Check for any deviations. Comply with the instructions on the fold out page.

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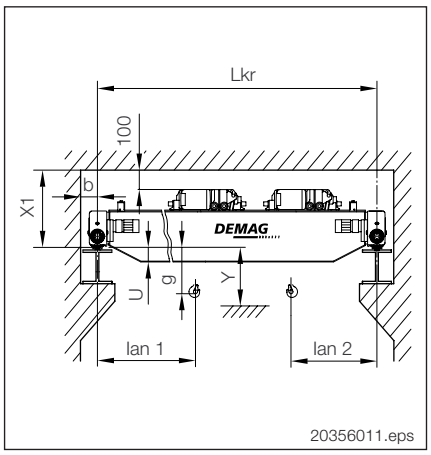
ZKKE without platform SWL 2 x 4 t

Crane girders: Box girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 2 x EZDR 5 - 4 4/1 H20



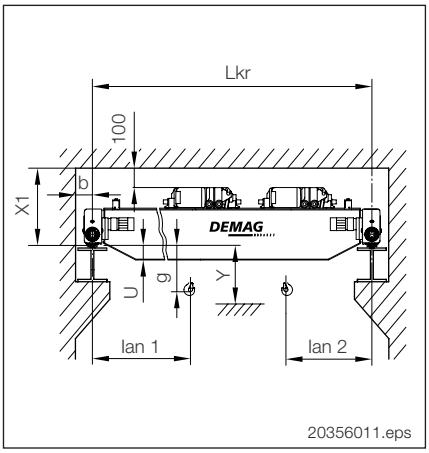
Hook path: 10 or 6 m; lifting speed: 9/1,5 m/min; 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
5	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
6	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
7	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
8	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
9	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
10	808	708	70	1090	700	22	570	1400	1422,5	1569,5	160	2500	2992	100	175
11	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
12	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
13	810	710	170	1090	700	20	670	1400	1422,5	1569,5	160	2500	2992	100	175
14	808	708	268	1090	700	22	768	1400	1422,5	1569,5	160	2500	2992	100	175
15	808	708	268	1090	700	22	768	1400	1422,5	1569,5	160	2500	2992	100	175
16	810	710	270	1090	700	20	770	1400	1422,5	1569,5	160	2500	2992	100	175
17	808	708	368	1090	700	22	868	1400	1422,5	1569,5	160	2500	2992	100	175
18	808	708	370	1090	700	22	870	1400	1422,5	1569,5	160	2500	2992	100	175
19	810	710	370	1090	700	20	870	1400	1422,5	1569,5	160	2500	2992	100	175
20	808	708	368	1090	700	22	868	1400	1747,5	1894,5	160	3150	3642	100	175
21	808	708	370	1090	700	22	870	1400	1767,5	1914,5	160	3150	3682	130	175
22	810	710	370	1090	700	20	870	1400	1767,5	1914,5	160	3150	3682	130	175
23	808	708	468	1090	700	22	968	1400	1767,5	1914,5	160	3150	3682	130	175
24	808	708	470	1090	700	22	970	1400	1767,5	1914,5	160	3150	3682	130	175
25	895	795	481	1100	710	-65	981	2240	2225,5	2372,5	200	4000	4598	130	175
26	895	795	483	1100	710	-65	983	2240	2225,5	2372,5	200	4000	4598	130	175
27	897	797	485	1100	710	-67	985	2240	2225,5	2372,5	200	4000	4598	130	175
28	895	795	581	1100	710	-65	1081	2240	2225,5	2372,5	200	4000	4598	130	175
29	895	795	581	1100	710	-65	1081	2240	2225,5	2372,5	200	4000	4598	130	175
30	895	795	583	1100	710	-65	1083	2240	2225,5	2372,5	200	4000	4598	130	175

All dimensions in mm (L_{KR} in m).
For further information, refer to the fold out page.
All structural dimensions, approach dimensions and information on the crane runway dimensions are based on the standard design 1 presented in this catalogue. Check for any deviations. Comply with the instructions on the fold out page.

ZKKE without platform SWL 2 x 5 t

Crane girders: Box girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 2x EZDR 5 - 5 4/1 H20



Hook path: 10 or 6 m; lifting speed: 9/1,5 m/min; 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
5	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
6	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
7	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
8	808	708	68	1090	700	22	568	1400	1422,5	1569,5	160	2500	2992	100	175
9	808	708	70	1090	700	22	570	1400	1422,5	1569,5	160	2500	2992	100	175
10	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
11	808	708	168	1090	700	22	668	1400	1422,5	1569,5	160	2500	2992	100	175
12	808	708	268	1090	700	22	768	1400	1422,5	1569,5	160	2500	2992	100	175
13	808	708	268	1090	700	22	768	1400	1422,5	1569,5	160	2500	2992	100	175
14	808	708	270	1090	700	22	770	1400	1422,5	1569,5	160	2500	2992	100	175
15	808	708	368	1090	700	22	868	1400	1422,5	1569,5	160	2500	2992	100	175
16	808	708	368	1090	700	22	868	1400	1422,5	1569,5	160	2500	2992	100	175
17	810	710	370	1090	700	20	870	1400	1422,5	1569,5	160	2500	2992	100	175
18	808	708	468	1090	700	22	968	1400	1422,5	1569,5	160	2500	2992	100	175
19	808	708	470	1090	700	22	970	1400	1422,5	1569,5	160	2500	2992	100	175
20	895	795	381	1100	710	-65	881	1400	1800,5	1947,5	200	3150	3748	130	175
21	895	795	381	1100	710	-65	881	1400	1800,5	1947,5	200	3150	3748	130	175
22	895	795	383	1100	710	-65	883	1400	1800,5	1947,5	200	3150	3748	130	175
23	897	797	383	1100	710	-67	883	1400	1800,5	1947,5	200	3150	3748	130	175
24	895	795	481	1100	710	-65	981	1400	1800,5	1947,5	200	3150	3748	130	175
25	897	797	483	1100	710	-67	983	2240	2225,5	2372,5	200	4000	4598	130	175
26	897	797	485	1100	710	-67	985	2240	2225,5	2372,5	200	4000	4598	130	175
27	897	797	581	1100	710	-67	1081	2240	2225,5	2372,5	200	4000	4598	130	175
28	899	799	583	1100	710	-69	1083	2240	2225,5	2372,5	200	4000	4598	130	175
29	897	797	583	1100	710	-67	1083	2240	2225,5	2372,5	200	4000	4598	130	175
30	897	797	585	1100	710	-67	1085	2240	2257,5	2404,5	200	4000	4662	160	175

All dimensions in mm (L_{KR} in m).
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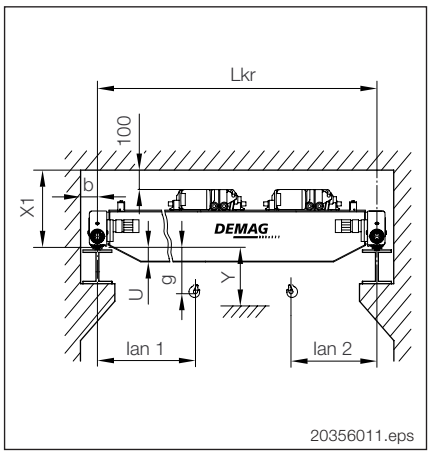
203561K4.p65/180405

ZKKE without platform SWL 2 x 6 t

Crane girders: Box girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 2x EZDR 10 - 6,3 4/1 H20



Hook path: 10 or 6 m; lifting speed: 9/1,5 m/min; 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	823	723	68	1090	700	22	568	1400	1319,5	1672,5	160	2500	2992	100	175
5	823	723	68	1090	700	22	568	1400	1319,5	1672,5	160	2500	2992	100	175
6	823	723	68	1090	700	22	568	1400	1319,5	1672,5	160	2500	2992	100	175
7	910	810	-19	1100	710	-65	481	1400	1352,5	1705,5	200	2500	3058	100	175
8	912	812	-17	1100	710	-67	483	1400	1352,5	1705,5	200	2500	3058	100	175
9	910	810	81	1100	710	-65	581	1400	1352,5	1705,5	200	2500	3058	100	175
10	910	810	83	1100	710	-65	583	1400	1352,5	1705,5	200	2500	3058	100	175
11	910	810	181	1100	710	-65	681	1400	1352,5	1705,5	200	2500	3058	100	175
12	910	810	183	1100	710	-65	683	1400	1352,5	1705,5	200	2500	3058	100	175
13	910	810	281	1100	710	-65	781	1400	1352,5	1705,5	200	2500	3058	100	175
14	910	810	283	1100	710	-65	783	1400	1352,5	1705,5	200	2500	3058	100	175
15	912	812	285	1100	710	-67	785	1400	1352,5	1705,5	200	2500	3058	100	175
16	910	810	381	1100	710	-65	881	1400	1352,5	1705,5	200	2500	3058	100	175
17	912	812	383	1100	710	-67	883	1400	1352,5	1705,5	200	2500	3058	100	175
18	914	814	385	1100	710	-69	885	1400	1372,5	1725,5	200	2500	3098	130	175
19	910	810	483	1100	710	-65	983	1400	1372,5	1725,5	200	2500	3098	130	175
20	912	812	481	1100	710	-67	981	1400	1697,5	2050,5	200	3150	3748	130	175
21	912	812	481	1100	710	-67	981	1400	1697,5	2050,5	200	3150	3748	130	175
22	914	814	483	1100	710	-69	983	1400	1697,5	2050,5	200	3150	3748	130	175
23	912	812	483	1100	710	-67	983	1400	1697,5	2050,5	200	3150	3748	130	175
24	910	810	581	1100	710	-65	1081	1400	1697,5	2050,5	200	3150	3748	130	175
25	914	814	581	1100	710	-69	1081	2240	2216,5	2381,5	200	4000	4598	130	175
26	930	830	565	1100	710	-85	1065	2240	2238,5	2403,5	250	4000	4642	130	200
27	932	832	567	1090	700	-87	1067	2240	2238,5	2403,5	250	4000	4642	130	200
28	932	832	565	1090	700	-87	1065	2240	2270,5	2435,5	250	4000	4706	160	200
29	932	832	567	1090	700	-87	1067	2240	2270,5	2435,5	250	4000	4706	160	200
30	935	835	570	1090	700	-90	1070	2240	2270,5	2435,5	250	4000	4706	160	200

All dimensions in mm (L_{KR} in m).
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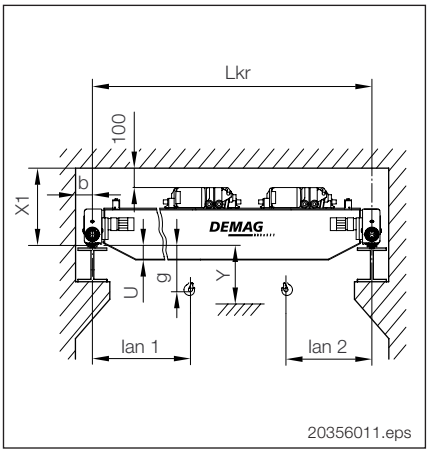
ZKKE without platform SWL 2 x 8 t

Crane girders: Box girder; design 1
End carriage: DFW-L-Z_ _ _ /_ _ _ _/S
Crab: 2x EZDR 10 - 8 4/1 H20



Hook path: 10 or 6 m; lifting speed: 9/1,5 m/min; 1 – 12,5 m/min infinitely variable
Cross travel speed 1,5 – 30 m/min infinitely variable

Crane girder				Crab					End carriage						
L_{KR}	X	H	U	$l_{an\ 1}$	$l_{an\ 2}$	g	y	Lka	$l_{an\ 3}$	$l_{an\ 4}$	d	e_{KT}	l_{EKT}	DPZ	b
4	910	810	-19	1100	710	-65	481	1400	1352,5	1705,5	200	2500	3058	100	175
5	910	810	-19	1100	710	-65	481	1400	1352,5	1705,5	200	2500	3058	100	175
6	910	810	-19	1100	710	-65	481	1400	1352,5	1705,5	200	2500	3058	100	175
7	910	810	-17	1100	710	-65	483	1400	1352,5	1705,5	200	2500	3058	100	175
8	910	810	81	1100	710	-65	581	1400	1352,5	1705,5	200	2500	3058	100	175
9	912	812	83	1100	710	-67	583	1400	1352,5	1705,5	200	2500	3058	100	175
10	910	810	181	1100	710	-65	681	1400	1352,5	1705,5	200	2500	3058	100	175
11	912	812	183	1100	710	-67	683	1400	1352,5	1705,5	200	2500	3058	100	175
12	910	810	281	1100	710	-65	781	1400	1352,5	1705,5	200	2500	3058	100	175
13	930	830	265	1090	700	-85	765	1400	1374,5	1727,5	250	2500	3102	100	200
14	928	828	363	1090	700	-83	863	1400	1374,5	1727,5	250	2500	3102	100	200
15	928	828	365	1090	700	-83	865	1400	1374,5	1727,5	250	2500	3102	100	200
16	928	828	463	1090	700	-83	963	1400	1394,5	1747,5	250	2500	3142	130	200
17	928	828	465	1090	700	-83	965	1400	1394,5	1747,5	250	2500	3142	130	200
18	930	830	467	1090	700	-85	967	1400	1394,5	1747,5	250	2500	3142	130	200
19	932	832	470	1090	700	-87	970	1400	1394,5	1747,5	250	2500	3142	130	200
20	930	830	465	1090	700	-85	965	1400	1719,5	2072,5	250	3150	3792	130	200
21	930	830	467	1090	700	-85	967	1400	1719,5	2072,5	250	3150	3792	130	200
22	928	828	565	1090	700	-83	1065	1400	1719,5	2072,5	250	3150	3792	130	200
23	930	830	565	1090	700	-85	1065	1400	1719,5	2072,5	250	3150	3792	130	200
24	932	832	567	1090	700	-87	1067	1400	1719,5	2072,5	250	3150	3792	130	200
25	932	832	567	1090	700	-87	1067	2240	2238,5	2403,5	250	4000	4642	130	200
26	932	832	570	1090	700	-87	1070	2240	2238,5	2403,5	250	4000	4642	130	200
27	928	828	713	1090	700	-83	1213	2240	2238,5	2403,5	250	4000	4642	130	200
28	928	828	715	1090	700	-83	1215	2240	2270,5	2435,5	250	4000	4706	160	200
29	930	830	715	1090	700	-85	1215	2240	2270,5	2435,5	250	4000	4706	160	200
30	932	832	717	1090	700	-87	1217	2240	2270,5	2435,5	250	4000	4706	160	200

All dimensions in mm (L_{KR} in m).
For further information, refer to the fold out page.
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Details for crane runway dimensions DIN 4132

Note: The effects of maximum and minimum loads and forces of the crane on the crane runways can vary depending on the crab position and long travel direction (see figures 1 – 4).
The following tables provide the maximum and minimum values for standard cranes.

Fig. 1: Crab at lan 1; + V_{Kran}

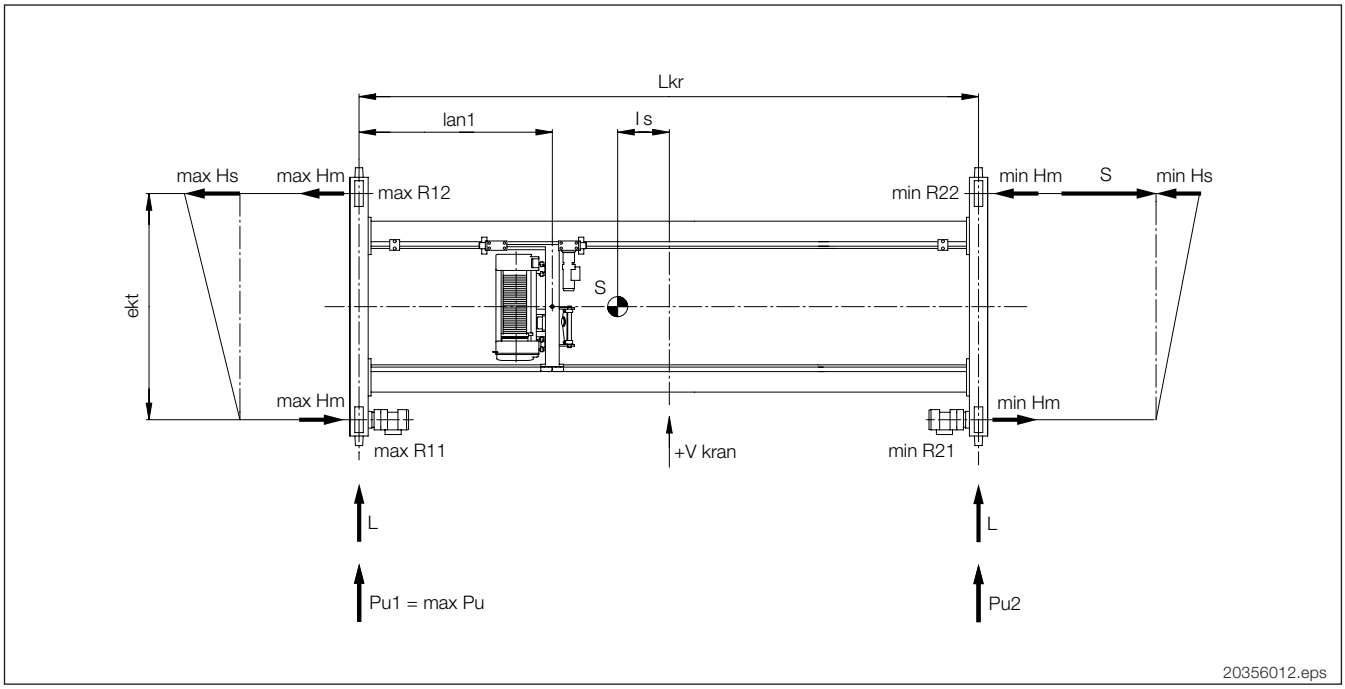
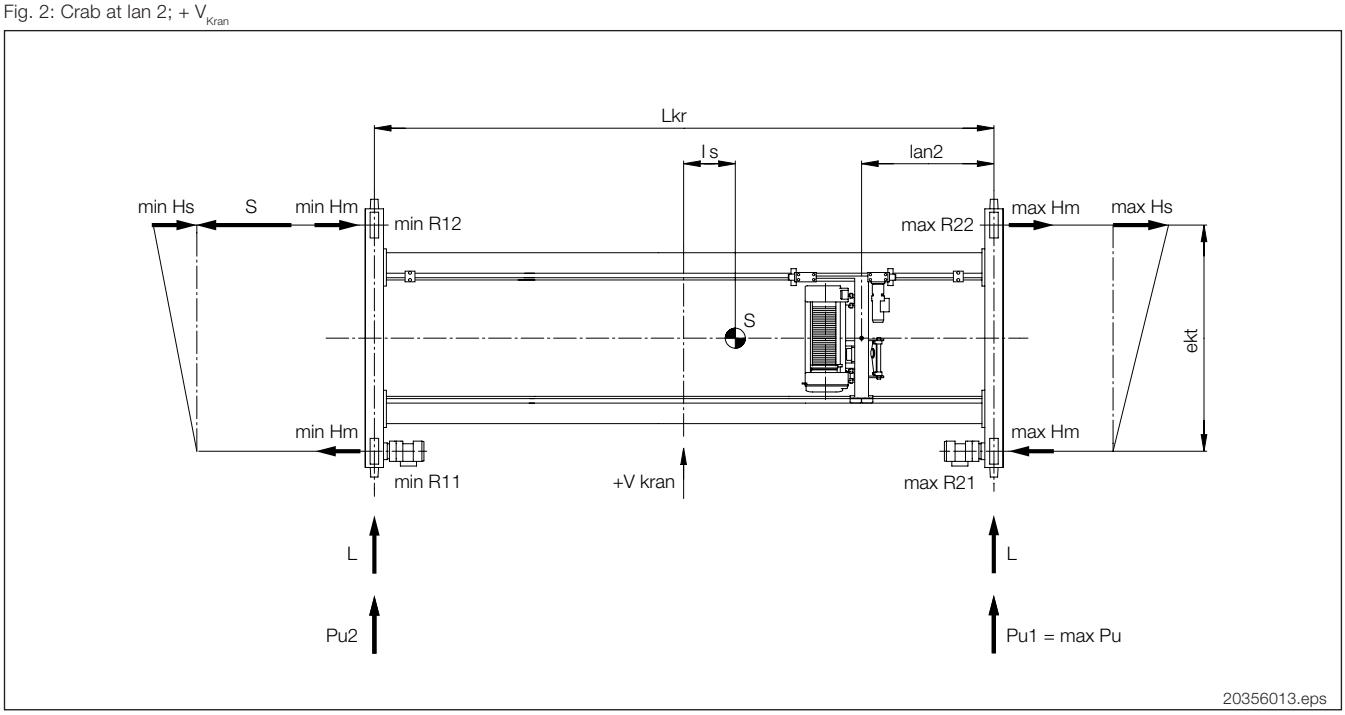


Fig. 2: Crab at lan 2; + V_{Kran}



Crane system: EFF to DIN15018 (Crab in unfavourable approach dimension)

Wheel loads (without coefficients)		Brake forces	Inertia forces resulting from long travel		Skewing forces			Buffer end force
kg		kN	kN		kN			kN
max. R	min. R	L	min. HM	max. HM	S	max. HS	min. HS	max. Pu

Details for crane runway dimensions DIN 4132

Note: The effects of maximum and minimum loads and forces of the crane on the crane runways can vary depending on the crab position and long travel direction (see figures 1 – 4).
The following tables provide the maximum and minimum values for standard cranes.

Fig. 3: Crab at lan 1; – V_{Kran}

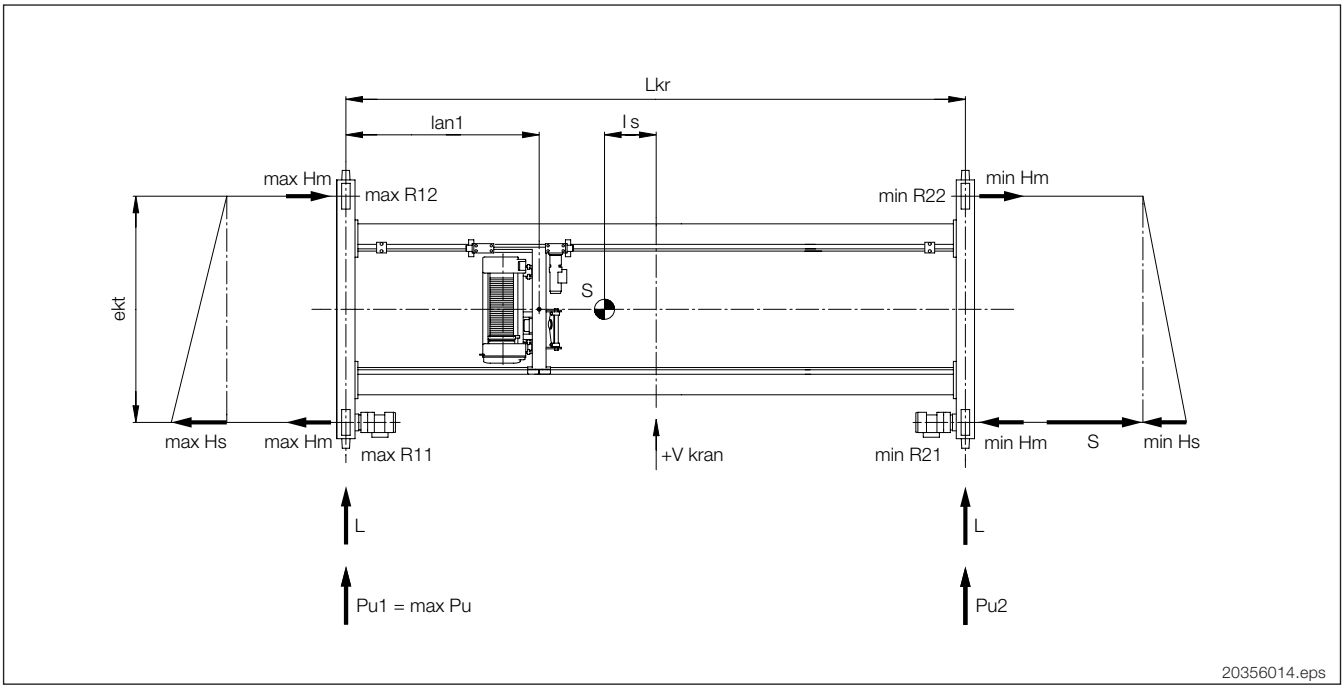
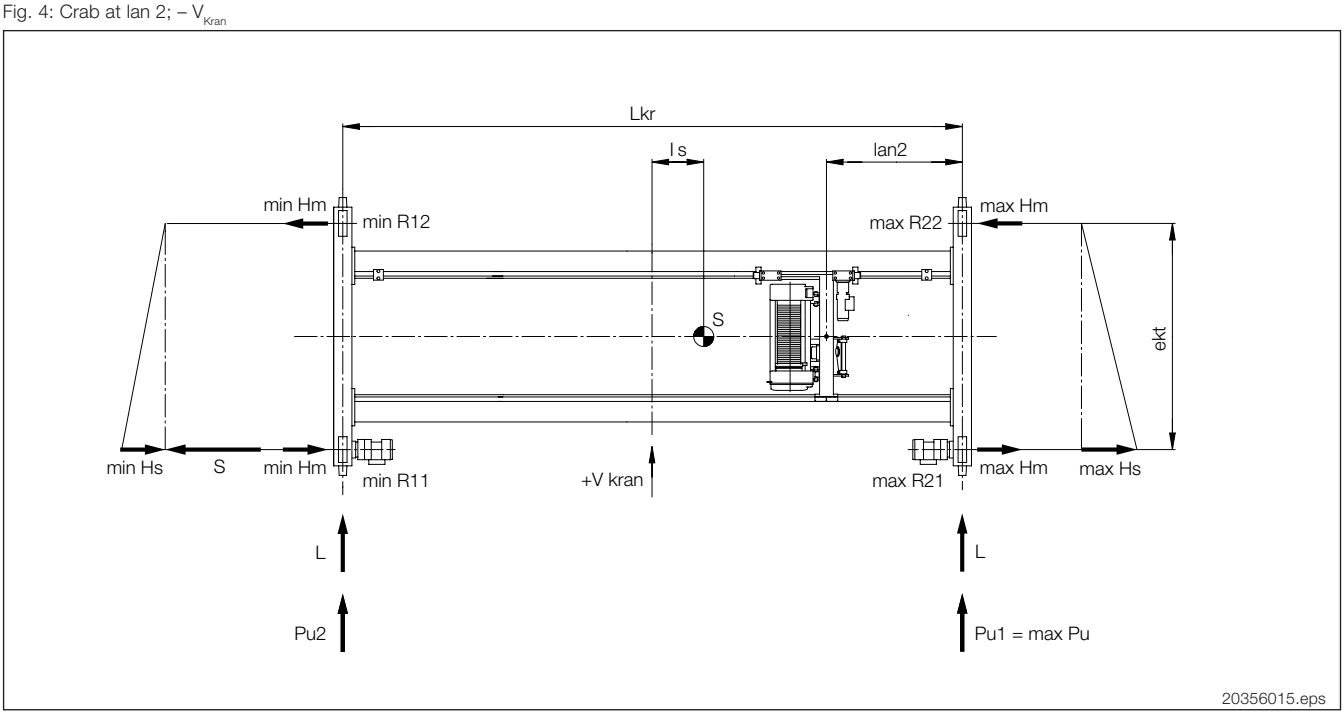


Fig. 4: Crab at lan 2; – V_{Kran}



Crane system: EFF to DIN15018 (Crab in unfavourable approach dimension)

Wheel loads (without coefficients)		Brake forces	Inertia forces resulting from long travel		Skewing forces			Buffer end force
kg		kN	kN		kN			kN
max. R	min. R	L	min. HM	max. HM	S	max. HS	min. HS	max. Pu

Loads and forces to DIN 15018

Wheel loads/inertia forces/skewing forces/buffer forces/crane dead weight forces

SWL 3,2 t - 1x EZDR5 - 3,2 4/1 FEM 4m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max. R22 (+G_H)	kg	2037	2138	2220	2291	2357	2418	2475	2531	2585	2637	2689	2775	2868	2923	3019	3163
max. R21 (+G_H)	kg	1813	1903	1977	2042	2103	2160	2213	2266	2317	2366	2415	2499	2589	2642	2736	2878
min. R12 (+G_H)	kg	613	604	613	632	659	689	722	758	795	833	873	949	1032	1079	1168	1306
min. R11 (+G_H)	kg	528	527	541	562	591	622	656	692	729	767	806	881	963	1009	1098	1234
Rm = (2 x maxR + minR)V3		1488	1548	1603	1655	1706	1756	1803	1852	1899	1945	1992	2074	2163	2215	2308	2449
L	kN	0,54	0,59	0,65	0,70	0,75	0,81	0,86	0,91	0,97	1,02	1,08	1,17	1,28	1,34	1,45	1,61
min. HM	kN	0,11	0,15	0,19	0,24	0,30	0,37	0,43	0,51	0,59	0,68	0,77	0,89	1,03	1,15	1,30	1,51
max. HM	kN	0,37	0,53	0,70	0,89	1,08	1,28	1,48	1,69	1,90	2,11	2,33	2,58	2,83	3,05	3,31	3,59
S	kN	6,84	7,09	7,33	7,58	7,82	8,07	8,31	8,56	8,81	9,05	9,30	9,74	10,21	10,49	10,99	11,76
max. H_S	kN	5,30	5,56	5,78	5,97	6,14	6,30	6,46	6,60	6,75	6,89	7,03	7,26	7,51	7,66	7,92	8,31
min. H_S	kN	1,54	1,53	1,55	1,61	1,68	1,77	1,85	1,96	2,06	2,16	2,27	2,48	2,70	2,83	3,07	3,45
max.P_U(V_{KR}= 40 m/min)	kN	7,06	7,61	8,41	9,08	9,90	10,72	11,34	12,03	13,03	13,89	14,76	16,32	18,36	19,55	21,66	24,82
max.P_U(V_{KR}= 60 m/min)	kN	16,63	19,45	22,38	24,54	27,05	29,83	32,51	35,18	38,42	20,66	22,08	24,89	28,64	30,71	35,28	41,89
G_G	kg	1791	1972	2151	2327	2510	2689	2866	3047	3226	3403	3583	3904	4252	4453	4821	5381

SWL 5,0 t - 1x EZDR5 - 5 4/1 FEM 2m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	2614	2994	3092	3175	3249	3317	3380	3440	3498	3616	3675	3734	3827	3929	3990	4094
max.R21 (+G_H)	kg	2810	2665	2754	2829	2897	2960	3018	3074	3129	3244	3300	3356	3447	3547	3605	3706
min.R12 (+G_H)	kg	696	701	694	701	719	743	770	802	836	934	976	1019	1099	1117	1241	1335
min.R11 (+G_H)	kg	671	612	612	624	644	670	698	731	765	863	905	947	1027	1190	1167	1260
Rm = (2 x maxR + minR)V3		2040	2120	2180	2235	2288	2340	2389	2439	2488	2598	2650	2703	2791	2864	2945	3045
L	kN	0,54	0,59	0,65	0,70	0,75	0,81	0,86	0,91	0,97	1,10	1,16	1,22	1,32	1,43	1,50	1,62
min.HM	kN	0,10	0,14	0,18	0,23	0,28	0,34	0,41	0,48	0,56	0,70	0,80	0,91	1,06	1,23	1,37	1,56
max.HM	kN	0,42	0,61	0,81	1,04	1,27	1,52	1,77	2,04	2,32	2,68	2,97	3,27	3,62	3,99	4,31	4,68
S	kN	9,31	9,55	9,80	10,04	10,29	10,54	10,78	11,03	11,27	11,86	12,14	12,41	12,88	13,41	13,71	14,25
max.H_S	kN	7,46	7,78	8,04	8,26	8,45	8,63	8,80	8,96	9,11	9,43	9,59	9,75	10,00	10,28	10,44	10,72
min.H_S	kN	1,85	1,77	1,76	1,78	1,84	1,91	1,98	2,07	2,16	2,43	2,55	2,66	2,88	3,13	3,27	3,53
max.PU (V_{KR}= 40 m/min)	kN	7,06	7,61	8,41	9,08	9,90	10,72	11,34	12,03	13,03	15,06	16,00	17,20	19,23	21,42	22,70	24,91
max.PU (V_{KR}= 60 m/min)	kN	16,63	19,45	22,38	24,54	27,05	29,83	32,51	35,18	38,42	22,58	24,26	26,50	30,23	34,72	37,60	42,05
GG	kg	1791	1972	2152	2329	2509	2690	2866	3047	3228	3657	3856	4056	4400	4783	5003	5395

SWL 6,3 t - 1x EZDR10 - 6,3 4/1 FEM 4m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	2986	3117	3220	3306	3382	3452	3516	3630	3694	3785	3913	4031	4046	4190	4300	4328
max.R21 (+G_H)	kg	3717	3862	3974	4066	4146	4218	4284	4400	4465	4556	4684	4803	4817	4960	5070	5098
min.R12 (+G_H)	kg	765	726	715	719	735	757	783	866	904	973	1082	1185	1185	1316	1416	1434
min.R11 (+G_H)	kg	807	750	727	722	730	746	767	846	880	946	1051	1151	1148	1277	1373	1389
Rm = (2 x maxR + minR)V3		2489	2568	2636	2697	2754	2809	2861	2965	3021	3105	3226	3340	3349	3489	3595	3620
L	kN	0,59	0,65	0,70	0,75	0,81	0,86	0,92	1,03	1,09	1,19	1,33	1,46	1,47	1,63	1,76	1,78
min.HM	kN	0,11	0,15	0,19	0,23	0,29	0,35	0,41	0,52	0,61	0,73	0,90	1,08	1,15	1,38	1,59	1,70
max.HM	kN	0,48	0,70	0,94	1,20	1,47	1,76	2,06	2,45	2,79	3,18	3,63	4,07	4,38	4,88	5,33	5,68
S	kN	11,34	11,59	11,83	12,08	12,32	12,57	12,81	13,35	13,63	14,06	14,71	15,31	15,34	16,09	16,66	16,79
max.H_S	kN	9,21	9,59	9,89	10,13	10,35	10,54	10,72	11,04	11,21	11,46	11,81	12,14	12,18	12,57	12,87	12,95
min.H_S	kN	2,13	2,00	1,94	1,95	1,97	2,03	2,09	2,31	2,42	2,60	2,90	3,17	3,16	3,52	3,79	3,84
max.P_U(V_{KR}= 40 m/min)	kN	7,67	8,57	9,33	10,27	11,02	11,68	12,59	14,53	15,52	17,26	20,03	22,55	22,74	25,91	28,42	28,98
max.P_U(V_{KR}= 60 m/min)	kN	19,69	22,90	25,25	28,23	31,14	33,96	36,46	21,71	23,32	26,62	31,42	37,32	37,69	44,06	32,16	32,69
G_G	kg	1975	2155	2336	2513	2693	2873	3050	3442	3643	3960	4430	4870	4896	5443	5859	5949

End carriage: Travel wheel diameter Ød - Travel wheel tread b_{wheel} - Crane runway rail width b_{rail}: 160-65-50; 200-65-50; 250-55-70.

2035561K5.p65/180405

SWL 3,2 t - 1x EZDR5 - 3,2 4/1 FEM 4m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max. R22 (+G_H)	kg	3185	3293	3402	3764	3869	4046	4124	4339	4417	4725	4932					
max. R21 (+G_H)	kg	2957	3063	3172	3527	3631	3832	3907	4121	4198	4503	4709					
min. R12 (+G_H)	kg	1345	1447	1552	1911	2012	2186	2260	2472	2546	2853	3057					
min. R11 (+G_H)	kg	1287	1388	1493	1843	1943	2106	2179	2389	2462	2767	2970					
Rm = (2 x maxR + minR)V3		2496	2601	2709	3067	3171	3355	3430	3644	3720	4027	4233					
L	kN	1,67	1,80	1,93	2,35	2,48	2,69	2,78	3,04	3,13	3,49	3,74					
min. HM	kN	1,30	1,44	1,59	1,90	2,05	1,80	1,88	2,05	2,16	2,37	2,53					
max. HM	kN	3,03	3,23	3,43	3,69	3,89	3,41	3,41	3,57	3,72	3,89	4,04					
S	kN	11,16	11,69	12,23	14,04	14,57	14,14	14,49	15,48	15,83	17,25	18,21					
max. H_S	kN	7,84	8,11	8,39	9,30	9,57	9,18	9,36	9,86	10,04	10,75	11,23					
min. H_S	kN	3,32	3,58	3,84	4,74	5,00	4,96	5,13	5,62	5,79	6,50	6,98					
max.P_U (V_{KR} = 40 m/min)	kN	26,02	28,52	30,97	48,03	21,30	25,13	26,46	30,99	33,19	39,96	45,97					
max.P_U (V_{KR} = 60 m/min)	kN	44,38*	32,25	34,70*	43,75	46,18	51,17	52,63	58,26	60,63	70,85	75,55					
G_G	kg	5574	5991	6419	7845	8255	8970	9270	10121	10423	11648	12468					

SWL 5,0 t - 1x EZDR5 - 5 4/1 FEM 2m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	4378	4534	4694	4713	4885	5130	5213	5434	5518	5719	6045					
max.R21 (+G_H)	kg	4065	4219	4377	4395	4565	4728	4810	5029	5110	5309	5634					
min.R12 (+G_H)	kg	1645	1793	1946	1959	2126	2334	2412	2629	2708	2905	3228					
min.R11 (+G_H)	kg	1578	1725	1878	1890	2055	2250	2327	2542	2620	2816	3137					
Rm = (2 x max_R + min_R)V3		3363	3515	3672	3689	3859	4064	4145	4364	4445	4644	4969					
L	kN	2,00	2,18	2,37	2,39	2,59	2,83	2,93	3,19	3,29	3,52	3,91					
min.HM	kN	1,59	1,80	2,02	2,13	2,37	2,08	2,21	2,44	2,58	2,80	3,08					
max.H^M	kN	4,16	4,48	4,79	5,03	5,35	4,46	4,68	4,93	5,15	5,39	5,66					
S	kN	14,83	15,60	16,40	16,47	17,33	16,78	17,15	18,17	18,54	19,46	20,97					
max.H_S	kN	10,77	11,16	11,56	11,61	12,05	11,48	11,68	12,19	12,38	12,84	13,60					
min.H_S	kN	4,06	4,44	4,84	4,86	5,28	5,30	5,47	5,98	6,16	6,62	7,37					
max.P_U (V_{KR} = 40 m/min)	kN	32,26	38,70	48,75	20,41	22,89	27,08	28,55	34,20	35,97	40,29	50,32					
max.P_U (V_{KR} = 60 m/min)	kN	61,14	39,32	44,03	44,41	48,52	53,40	55,23	61,97	64,45	71,35	78,56					
G_G	kg	6666	7271	7895	7957	8631	9442	9762	10634	10956	11749	13044					

SWL 6,3 t - 1x EZDR10 - 6,3 4/1 FEM 4m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	4742	4822	4983	5155	5178	5959	6149	6273	6557	6715	6934					
max.R21 (+G_H)	kg	5349	5428	5588	5759	5780	5583	5771	5893	6175	6331	6548					
min.R12 (+G_H)	kg	1756	1828	1981	2147	2163	2449	2632	2750	3029	3182	3396					
min.R11 (+G_H)	kg	1712	1781	1933	2096	2110	2364	2545	2663	2940	3091	3304					
Rm = (2 x maxR + minR)V3		3949	4026	4184	4354	4374	4664	4851	4972	5254	5409	5626					
L	kN	2,18	2,27	2,46	2,66	2,68	3,02	3,24	3,38	3,72	3,91	4,16					
min.HM	kN	1,74	1,90	2,15	2,41	2,54	2,30	2,54	2,73	3,03	3,25	3,52					
max.HM	kN	5,07	5,41	5,81	6,21	6,51	5,53	5,84	6,13	6,47	6,76	7,07					
S	kN	17,24	17,62	18,42	19,27	19,37	19,01	19,87	20,43	21,73	22,45	23,45					
max.H_S	kN	12,86	13,06	13,47	13,91	13,96	13,44	13,88	14,17	14,82	15,19	15,69					
min.H_S	kN	4,38	4,56	4,95	5,36	5,41	5,57	5,99	6,26	6,91	7,26	7,76					
max.P_U (V_{KR} = 40 m/min)	kN	40,77	45,55	21,46	24,76	25,16	31,43	35,98	38,64	46,50	51,31	57,34					
max.P_U (V_{KR} = 60 m/min)	kN	40,27	42,77	46,49	50,77	51,21	58,74	64,47	68,44	75,90	79,49	86,40					
G_G	kg	7259	7559	8185	8857	8931	10055	10797	11279	12401	13019	13882					

max. R - Max. wheel load without coefficient (deadweight + hoist load)
min. R - Min. wheel load without coefficient (deadweight + hoist load)
L, min. HM, max. HM - Drive inertia forces
S, max. HS, min. HS - Skewing forces with additional 10%
max. Pu - Max. buffer force with vibration coefficient 1,25
NPU=1 - Buffer against rigid stop

Loads and forces to DIN 15018

Wheel loads/inertia forces/skewing forces/buffer forces/crane dead weight forces

SWL 8 t - 1x EZDR10 - 8 4/1 FEM 3m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	3624	3774	3889	3983	4066	4162	4278	4327	4449	4520	4587	4722	4883	4941	5055	5205
max.R21 (+G_H)	kg	4564	4734	4862	4966	5055	5155	5275	5326	5450	5521	5589	5726	5887	5944	6059	6208
min.R12 (+G_H)	kg	857	799	776	772	781	819	889	900	991	1035	1079	1195	1339	1381	1482	1620
min.R11 (+G_H)	kg	929	848	808	792	791	822	886	891	977	1016	1057	1169	1309	1348	1446	1581
Rm = (2 x maxR + minR)V3		3015	3102	3176	3240	3301	3379	3481	3518	3630	3692	3752	3881	4036	4089	4199	4344
L	kN	0,59	0,65	0,70	0,75	0,81	0,89	1,00	1,03	1,16	1,23	1,29	1,44	1,63	1,68	1,81	1,98
min.HM	kN	0,11	0,14	0,18	0,22	0,27	0,34	0,43	0,49	0,62	0,72	0,83	1,02	1,25	1,39	1,60	1,87
max.HM	kN	0,50	0,74	1,00	1,27	1,57	1,92	2,33	2,66	3,13	3,53	3,94	4,49	5,09	5,53	6,07	6,67
S	kN	13,67	13,92	14,16	14,41	14,65	15,02	15,52	15,68	16,26	16,57	16,87	17,56	18,39	18,66	19,24	20,03
max.H_S	kN	11,25	11,69	12,02	12,29	12,53	12,80	13,12	13,26	13,60	13,79	13,98	14,35	14,79	14,95	15,26	15,67
min.H_S	kN	2,42	2,23	2,14	2,12	2,12	2,22	2,40	2,42	2,66	2,78	2,89	3,21	3,60	3,71	3,98	4,36
max.P_U (V_{KR}= 40 m/min)	kN	7,67	8,57	9,33	10,27	11,02	12,01	13,94	14,53	16,67	18,03	19,35	22,22	25,73	26,95	29,51	32,63
max.P_U (V_{KR}= 60 m/min)	kN	19,69	22,90	25,25	28,23	31,14	35,13	20,74	21,71	25,53	28,02	30,42	36,61	43,52	30,77	33,18	36,27
G_G	kg	1974	2155	2335	2513	2693	2958	3328	3444	3867	4092	4312	4812	5418	5614	6042	6614

SWL 10 t - 1x EZDR10 - 10 4/1 FEM 2m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	4375	4546	4675	4780	4871	5014	5073	5197	5275	5375	5561	5637	5838	5997	6057	6181
max.R21 (+G_H)	kg	5561	5760	5907	6024	6124	6274	6337	6466	6545	6648	6836	6913	7113	7274	7334	7458
min.R12 (+G_H)	kg	966	886	848	834	835	908	911	990	1030	1098	1257	1308	1494	1635	1678	1787
min.R11 (+G_H)	kg	1073	963	904	874	863	927	922	994	1027	1091	1245	1292	1474	1611	1651	1757
Rm = (2 x maxR + minR)V3		3634	4052	4111	4171	4231	4374	4414	4549	4626	4737	4966	5050	5306	5506	5573	5728
L	kN	0,59	0,65	0,70	0,75	0,81	0,94	0,97	1,09	1,16	1,26	1,47	1,55	1,78	1,96	2,02	2,16
min.HM	kN	0,11	0,14	0,17	0,21	0,26	0,34	0,39	0,50	0,59	0,70	0,92	1,05	1,34	1,60	1,75	2,00
max.HM	kN	0,52	0,77	1,04	1,33	1,65	2,10	2,44	2,94	3,37	3,87	4,58	5,08	5,84	6,53	7,04	7,69
S	kN	16,41	16,66	16,91	17,15	17,39	17,98	18,15	18,70	19,02	19,48	20,42	20,76	21,82	22,64	22,91	23,55
max.H_S	kN	13,64	14,15	14,53	14,84	15,10	15,50	15,67	16,01	16,23	16,51	17,02	17,23	17,78	18,22	18,38	18,72
min.H_S	kN	2,77	2,51	2,38	2,31	2,29	2,48	2,48	2,69	2,79	2,97	3,40	3,53	4,04	4,42	4,53	4,83
max.P_U (V_{KR}= 40 m/min)	kN	7,67	8,57	9,33	10,27	11,02	12,90	13,54	15,49	16,72	18,73	22,68	24,05	28,71	32,06	33,17	39,27
max.P_U (V_{KR}= 60 m/min)	kN	19,69	22,90	25,25	28,23	31,14	37,42	20,09	23,27	25,64	29,31	37,57	40,48	52,50	35,73	36,78	39,59
G_G	kg	1975	2155	2334	2512	2693	3123	3243	3647	3877	4212	4899	5150	5919	6517	6720	7183

SWL 12,5 t - 1x EZDR10 - 12,5 6/1 FEM 3m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	4634	4957	5189	5413	5616	5730	5890	6027	6185	6328	6460	6627	6703	6878	7059	7290
max.R21 (+G_H)	kg	6131	6542	6831	7094	7328	7465	7644	7795	7966	8118	8258	8433	8515	8694	8880	9115
min.R12 (+G_H)	kg	1722	1496	1361	1341	1345	1305	1342	1377	1452	1523	1594	1709	1738	1872	2017	2216
min.R11 (+G_H)	kg	2131	1814	1618	1556	1527	1460	1475	1493	1552	1610	1669	1774	1794	1920	2057	2250
Rm = (2 x maxR + minR)V3		4162	4936	5000	5135	5272	5320	5450	5564	5718	5860	5994	6181	6250	6455	6671	6957
L	kN	0,64	0,69	0,75	0,87	0,99	1,04	1,16	1,26	1,40	1,52	1,64	1,81	1,88	2,06	2,25	2,51
min.HM	kN	0,13	0,17	0,22	0,29	0,37	0,43	0,52	0,63	0,77	0,91	1,07	1,28	1,42	1,68	1,97	2,35
max.HM	kN	0,36	0,60	0,87	1,24	1,67	2,03	2,52	3,02	3,61	4,21	4,83	5,55	6,10	6,89	7,70	8,63
S	kN	20,03	20,29	20,56	21,11	21,67	21,87	22,41	22,87	23,51	24,09	24,64	25,41	25,70	26,54	27,43	28,60
max.H_S	kN	14,78	15,57	16,50	17,17	17,77	18,11	18,58	18,97	19,42	19,83	20,20	20,67	20,89	21,37	21,88	22,51
min.H_S	kN	5,25	4,72	4,06	3,94	3,90	3,76	3,83	3,90	4,09	4,26	4,44	4,74	4,81	5,17	5,55	6,09
max.P_U (V_{KR}= 40 m/min)	kN	8,04	8,94	9,88	11,50	13,53	14,30	16,22	18,27	20,99	23,31	25,82	29,21	30,42	33,72	19,28	21,94
max.P_U (V_{KR}= 60 m/min)	kN	21,09	24,07	26,99	33,18	42,42	21,32	24,71	28,48	33,70	39,11	43,80	32,91	34,19	37,31	42,08	47,38
G_G	kg	2118	2309	2499	2904	3316	3460	3851	4192	4655	5079	5481	6043	6250	6864	7513	8371

End carriage: Travel wheel diameter Ød - Travel wheel tread b_{wheel} - Crane runway rail width b_{rail}: 160-65-50; 200-65-50; 250-55-70.

2035561K5.p65/180405

SWL 8 t - 1x EZDR10 - 8 4/1 FEM 3m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	5705	5797	5884	5975	6160	7031	7128	7435	7481	7898	8164					
max.R21 (+G_H)	kg	6497	6588	6675	6765	6949	6588	6683	6988	7032	7444	7708					
min.R12 (+G_H)	kg	2002	2084	2162	2245	2422	2672	2762	3062	3101	3513	3773					
min.R11 (+G_H)	kg	1962	2042	2118	2199	2373	2586	2674	2973	3011	3417	3676					
Rm = (2 x maxR + minR)V3		4735	4823	4907	4995	5177	5430	5524	5828	5871	6285	6548					
L	kN	2,45	2,55	2,65	2,76	2,97	3,26	3,37	3,74	3,79	4,28	4,60					
min.HM	kN	1,96	2,14	2,33	2,53	2,84	2,53	2,72	3,07	3,22	3,67	4,01					
max.HM	kN	6,03	6,44	6,84	7,26	7,75	6,57	6,90	7,35	7,65	8,14	8,54					
S	kN	20,56	21,00	21,41	21,85	22,77	21,94	22,37	23,77	23,97	25,88	27,10					
max.H_S	kN	15,55	15,78	16,00	16,23	16,70	15,85	16,08	16,79	16,89	17,86	18,47					
min.H_S	kN	5,01	5,22	5,41	5,62	6,07	6,09	6,29	6,98	7,08	8,02	8,63					
max.P_U (V_{KR} = 40 m/min)	kN	21,38	22,90	24,65	26,47	30,07	36,41	38,45	46,94	48,35	59,56	68,27					
max.P_U (V_{KR} = 60 m/min)	kN	46,35	48,53	50,63	52,64	57,26	65,07	68,09	76,20	77,14	90,19	97,17					
G_G	kg	8166	8511	8839	9184	9904	10877	11247	12458	12625	14272	15321					

SWL 10 t - 1x EZDR10 - 10 4/1 FEM 2m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	6619	6794	6972	7251	7313	8245	8452	8404	8721	9067	9491					
max.R21 (+G_H)	kg	7629	7804	7981	8260	8321	7722	7927	7878	8192	8534	8956					
min.R12 (+G_H)	kg	2078	2241	2407	2676	2729	2889	3086	3030	3339	3679	4096					
min.R11 (+G_H)	kg	2045	2205	2369	2635	2686	2800	2997	2940	3247	3581	3997					
Rm = (2 x maxR + minR)V3		5442	6348	6576	6941	7016	6285	7487	7417	7833	8287	8847					
L	kN	2,51	2,71	2,92	3,25	3,31	3,50	3,74	3,68	4,05	4,46	4,96					
min.HM	kN	1,99	2,27	2,56	2,98	3,17	2,74	3,04	3,10	3,51	3,95	4,45					
max.HM	kN	6,86	7,44	8,02	8,70	9,17	7,69	8,17	8,46	9,02	9,58	10,15					
S	kN	23,36	24,21	25,09	26,48	26,76	25,17	26,10	25,86	27,31	28,89	30,84					
max.H_S	kN	18,15	18,59	19,04	19,75	19,91	18,58	19,06	18,95	19,68	20,48	21,46					
min.H_S	kN	5,21	5,62	6,05	6,73	6,85	6,59	7,04	6,91	7,63	8,41	9,38					
max.P_U (V_{KR} = 40 m/min)	kN	22,14	25,72	28,95	35,89	37,14	40,59	46,96	45,23	54,64	62,97	39,21					
max.P_U (V_{KR} = 60 m/min)	kN	47,62	51,80	55,85	64,34	66,10	71,71	76,21	75,06	82,73	94,10	106,9					
G_G	kg	8371	9044	9729	10822	11049	11656	12462	12252	13499	14861	16540					

SWL 12,5 t - 1x EZDR10 - 12,5 6/1 FEM 3m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	7692	7801	7990	8280	8353	9612	9728	10054	10430	10856	11226					
max.R21 (+G_H)	kg	9139	9250	9441	9732	9806	9135	9249	9573	9944	10367	10735					
min.R12 (+G_H)	kg	2404	2487	2651	2918	2970	3264	3360	3667	4026	4436	4790					
min.R11 (+G_H)	kg	2419	2496	2656	2919	2967	3170	3265	3571	3925	4334	4687					
Rm = (2 x maxR + minR)V3		6412	7345	7579	7950	8032	7337	8534	8955	9442	9998	10479					
L	kN	2,75	2,86	3,07	3,40	3,48	3,8	3,93	4,31	4,75	5,25	5,68					
min.HM	kN	2,17	2,37	2,68	3,12	3,33	2,99	3,21	3,63	4,11	4,64	5,13					
max.HM	kN	7,56	8,13	8,82	9,64	10,19	8,70	9,18	9,85	10,54	11,24	11,88					
S	kN	27,53	28,02	28,91	30,33	30,64	29,62	30,11	31,6	33,32	35,28	36,97					
max.H_S	kN	21,43	21,71	22,19	22,93	23,12	22,08	22,35	23,11	23,99	24,99	25,86					
min.H_S	kN	6,10	6,31	6,72	7,40	7,52	7,54	7,76	8,49	9,33	10,29	11,11					
max.P_U (V_{KR} = 40 m/min)	kN	26,11	27,89	32,19	38,60	39,96	48,50	51,62	59,85	36,91	42,03	45,86					
max.P_U (V_{KR} = 60 m/min)	kN	52,22	54,41	59,56	68,36	70,84	77,24	79,79	90,56	100,55	115,81	129,1					
G_G	kg	9154	9534	10238	11349	11596	12681	13102	14365	15825	17493	18938					

max. R - Max. wheel load without coefficient (deadweight + hoist load)
min. R - Min. wheel load without coefficient (deadweight + hoist load)
L, min. HM, max. HM- Drive inertia forces
S, max. HS, min. HS - Skewing forces with additional 10%
max. Pu - Max. buffer force with vibration coefficient 1,25
NPU=1 - Buffer against rigid stop

Loads and forces to DIN 15018

Wheel loads/inertia forces/skewing forces/buffer forces/crane dead weight forces

SWL 16 t - 1x EZDR10 - 16 6/1 FEM 2m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	5787	6183	6463	6709	6918	7114	7262	7439	7572	7848	8038	8150	8439	8556	8670	8889
max.R21 (+G_H)	kg	7714	8226	8583	8883	9133	9360	9533	9730	9878	10170	10372	10493	10791	10914	11034	11258
min.R12 (+G_H)	kg	2142	1843	1659	1574	1535	1537	1531	1582	1609	1785	1899	1946	2178	2243	2312	2492
min.R11 (+G_H)	kg	2693	2274	2011	1867	1785	1753	1719	1747	1754	1912	2012	2046	2266	2322	2381	2552
Rm = (2 x maxR + minR)V3		5214	5417	5568	5722	5862	6004	6109	6250	6353	6601	6770	6863	7136	7238	7339	7546
L	kN	0,7	0,76	0,82	0,91	1,01	1,13	1,21	1,35	1,44	1,71	1,90	1,99	2,30	2,41	2,52	2,76
min.HM	kN	0,14	0,19	0,23	0,30	0,37	0,45	0,53	0,65	0,76	1,01	1,21	1,37	1,74	1,94	2,16	2,53
max.HM	kN	0,39	0,66	0,96	1,34	1,77	2,27	2,76	3,37	3,95	4,90	5,71	6,40	7,51	8,27	9,05	10,09
S	kN	25,13	25,39	25,65	26,08	26,55	27,09	27,47	28,09	28,52	30,02	30,86	31,29	32,73	33,23	33,73	34,83
max.H_S	kN	18,53	19,77	20,65	21,40	22,03	22,61	23,05	23,56	23,95	24,94	25,48	25,81	26,62	26,95	27,27	27,89
min.H_S	kN	6,60	5,62	5,00	4,68	4,52	4,48	4,42	4,53	4,57	5,08	5,38	5,48	6,11	6,28	6,46	6,94
max.P_U (V_{KR}= 40 m/min)	kN	8,77	9,76	10,76	11,96	13,79	15,71	17,34	20,03	21,89	27,18	30,73	32,46	46,46	20,87	22,05	26,29
max.P_U (V_{KR}= 60 m/min)	kN	23,52	26,62	30,02	34,98	20,49	23,64	26,76	31,44	35,82	47,86	57,44	36,11	43,13	45,30	47,52	52,42
G_G	kg	2336	2526	2716	3033	3371	3764	4045	4498	4813	5715	6321	6635	7674	8035	8397	9191

SWL 2 x 3,2 t - 2x EZDR5 - 3,2 4/1 FEM 4m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	3172	3448	3648	3803	3931	4041	4138	4251	4364	4444	4553	4698	4739	4852	5009	5043
max.R21 (+G_H)	kg	2813	3053	3227	3363	3477	3576	3662	3768	3874	3947	4051	4191	4228	4336	4490	4520
min.R12 (+G_H)	kg	1492	1307	1199	1135	1098	1080	1074	1103	1147	1167	1225	1326	1329	1408	1535	1542
min.R11 (+G_H)	kg	1276	1125	1039	990	965	955	955	989	1037	1060	1120	1223	1228	1308	1435	1443
Rm = (2 x maxR + minR)V3		2492	2978	3038	3097	3157	3217	3276	3370	3474	3539	3650	3813	3841	3968	4156	4183
L	kN	0,71	0,76	0,81	0,87	0,92	0,98	1,03	1,11	1,21	1,27	1,36	1,51	1,54	1,65	1,82	1,84
min.HM	kN	0,13	0,19	0,25	0,30	0,37	0,43	0,50	0,60	0,71	0,81	0,95	1,13	1,23	1,41	1,65	1,77
max.HM	kN	0,29	0,51	0,76	1,03	1,32	1,62	1,94	2,30	2,69	3,05	3,47	3,94	4,30	4,76	5,28	5,65
S	kN	12,00	12,24	12,49	12,73	12,98	13,23	13,47	13,86	14,28	14,55	15,00	15,67	15,79	16,31	17,09	17,20
max.H_S	kN	8,23	8,94	9,45	9,85	10,18	10,47	10,72	11,02	11,32	11,53	11,82	12,21	12,32	12,62	13,05	13,14
min.H_S	kN	3,77	3,30	3,04	2,88	2,80	2,76	2,75	2,84	2,96	3,02	3,18	3,46	3,47	3,69	4,04	4,06
max.P_U (V_{KR}= 40 m/min)	kN	8,72	9,93	10,99	11,79	13,02	14,09	15,10	16,67	18,64	19,89	21,88	24,70	25,33	27,68	30,99	31,47
max.P_U (V_{KR}= 60 m/min)	kN	23,35	27,15	31,02	34,45	38,36	20,99	22,63	25,54	29,14	31,21	35,79	41,67	42,82	31,46	34,72	35,18
G_G	kg	2453	2633	2813	2991	3171	3352	3529	3811	4122	4318	4649	5138	5224	5604	6169	6248

SWL 2 x 4 t - 2x EZDR5 - 4 4/1 FEM 3m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	3786	4109	4339	4516	4661	4784	4914	5040	5133	5279	5368	5450	5602	5687	5808	5930
max.R21 (+G_H)	kg	3360	3640	3842	3998	4127	4237	4356	4473	4558	4697	4780	4857	5004	5084	5201	5319
min.R12 (+G_H)	kg	1725	1494	1355	1268	1215	1183	1190	1216	1224	1299	1327	1356	1462	1506	1591	1680
min.R11 (+G_H)	kg	1483	1291	1177	1108	1068	1047	1061	1092	1106	1184	1215	1247	1354	1399	1485	1576
Rm = (2 x maxR + minR)V3		2957	3511	3571	3630	3690	3750	3840	3940	4007	4153	4230	4303	4474	4559	4695	4835
L	kN	0,71	0,76	0,81	0,87	0,92	0,98	1,06	1,15	1,21	1,34	1,41	1,47	1,63	1,70	1,83	1,95
min.HM	kN	0,13	0,19	0,25	0,30	0,36	0,42	0,51	0,61	0,69	0,84	0,95	1,07	1,28	1,43	1,63	1,85
max.HM	kN	0,30	0,53	0,79	1,08	1,39	1,71	2,09	2,50	2,88	3,38	3,81	4,25	4,81	5,29	5,83	6,39
S	kN	14,19	14,44	14,68	14,92	15,17	15,42	15,79	16,20	16,48	17,07	17,39	17,69	18,40	18,74	19,30	19,88
max.H_S	kN	9,82	10,65	11,24	11,70	12,07	12,39	12,73	13,07	13,31	13,70	13,94	14,16	14,57	14,79	15,12	15,45
min.H_S	kN	4,37	3,79	3,44	3,22	3,10	3,03	3,06	3,13	3,17	3,37	3,45	3,53	3,83	3,95	4,18	4,43
max.P_U (V_{KR}= 40 m/min)	kN	8,72	9,93	10,99	11,79	13,02	14,09	15,53	17,32	18,64	21,26	22,68	23,92	27,13	28,70	31,07	33,37
max.P_U (V_{KR}= 60 m/min)	kN	23,35	27,15	31,02	34,45	38,36	20,99	23,34	26,72	29,14	34,34	37,57	40,24	30,94	32,42	34,79	36,97
G_G	kg	2354	2534	2713	2890	3071	3251	3521	3821	4021	4459	4690	4910	5422	5676	6085	6505

End carriage: Travel wheel diameter Ød - Travel wheel tread b_{wheel} - Crane runway rail width b_{rail} : 160-65-50; 200-65-50; 250-55-70.

2035611K5.p65/180405

SWL 16 t - 1x EZDR10 - 16 6/1 FEM 2m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	9416	9700	9950	10216	10260	11681	11814	12112	12241	12525	12970					
max.R21 (+G_H)	kg	11297	11584	11836	12104	12150	11114	11244	11537	11664	11945	12388					
min.R12 (+G_H)	kg	2745	2995	3214	3452	3470	3673	3780	4055	4162	4425	4852					
min.R11 (+G_H)	kg	2780	3024	3238	3471	3484	3576	3682	3952	4057	4320	4745					
Rm = (2 x maxR + minR)V3		7819	8093	8333	8591	8627	8823	8946	9235	9356	9632	10070					
L	kN	3,07	3,39	3,67	3,97	4,01	4,21	4,36	4,70	4,84	5,16	5,69					
min.HM	kN	2,39	2,80	3,20	3,63	3,82	3,30	3,55	3,98	4,25	4,69	5,30					
max.HM	kN	8,95	9,89	10,79	11,71	12,32	10,38	10,98	11,75	12,35	13,11	14,01					
S	kN	33,72	35,09	36,29	37,58	37,73	35,34	35,90	37,23	37,78	39,07	41,11					
max.H_S	kN	26,65	27,38	28,03	28,71	28,83	26,84	27,15	27,84	28,14	28,81	29,85					
min.H_S	kN	7,07	7,71	8,26	8,87	8,90	8,50	8,75	9,39	9,64	10,26	11,26					
max.P_U (V_{KR}= 40 m/min)	kN	32,15	38,31	44,45	52,30	53,17	58,15	60,65	71,06	75,48	41,18	45,91					
max.P_U (V_{KR}= 60 m/min)	kN	59,52	67,84	74,53	80,45	81,30	87,58	91,57	99,13	102,99	113,14	129,26					
G_G	kg	10238	11303	12238	13243	13364	14044	14520	15656	16124	17215	18955					

SWL 2 x 3,2 t - 2x EZDR5 - 3,2 4/1 FEM 4m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	5376	5462	5544	5807	5834	6122	6416	6443	6643	6969	6996					
max.R21 (+G_H)	kg	4954	5038	5116	5378	5402	5743	6035	6060	6258	6581	6606					
min.R12 (+G_H)	kg	1896	1961	2023	2268	2279	2551	2831	2845	3033	3348	3364					
min.R11 (+G_H)	kg	1811	1875	1937	2183	2193	2456	2735	2748	2935	3249	3264					
Rm = (2 x maxR + minR)V3		4075	4779	4873	5212	5236	4805	6006	6032	6290	6716	6743					
L	kN	2,29	2,38	2,47	2,77	2,79	3,14	3,49	3,51	3,74	4,12	4,15					
min.HM	kN	1,83	1,99	2,16	2,50	2,63	2,39	2,70	2,82	3,07	3,41	3,55					
max.HM	kN	5,10	5,45	5,81	6,29	6,61	5,66	6,04	6,30	6,64	7,00	7,28					
S	kN	17,85	18,23	18,59	19,88	19,97	19,61	20,94	21,03	21,93	23,41	23,51					
max.H_S	kN	13,17	13,38	13,58	14,25	14,32	13,82	14,50	14,56	15,02	15,77	15,83					
min.H_S	kN	4,68	4,85	5,01	5,63	5,65	5,79	6,44	6,47	6,91	7,64	7,68					
max.P_U (V_{KR}= 40 m/min)	kN	50,51	21,48	22,76	27,92	28,29	35,86	42,49	43,18	49,65	58,47	58,92					
max.P_U (V_{KR}= 60 m/min)	kN	44,72	46,53	48,37	54,46	54,91	64,29	73,22	73,68	78,02	88,18	89,03					
G_G	kg	7737	8036	8320	9336	9408	10572	11717	11796	12569	13847	13930					

SWL 2 x 4 t - 2x EZDR5 - 4 4/1 FEM 3m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	6167	6337	6510	6542	6727	6944	7139	7448	7582	8003	8272					
max.R21 (+G_H)	kg	5675	5842	6013	6042	6224	6510	6704	7010	7141	7557	7824					
min.R12 (+G_H)	kg	1942	2087	2236	2247	2411	2618	2797	3089	3209	3617	3874					
min.R11 (+G_H)	kg	1853	1997	2147	2157	2321	2520	2698	2990	3109	3512	3767					
Rm = (2 x maxR + minR)V3		4595	5421	5635	5663	5894	5357	6446	6846	7014	7563	7912					
L	kN	2,29	2,48	2,67	2,70	2,90	3,18	3,40	3,76	3,91	4,41	4,72					
min.HM	kN	1,83	2,08	2,35	2,48	2,77	2,47	2,73	3,09	3,31	3,76	4,09					
max.HM	kN	5,71	6,21	6,71	7,08	7,59	6,48	6,88	7,35	7,71	8,20	8,61					
S	kN	19,88	20,68	21,50	21,60	22,48	21,61	22,47	23,87	24,45	26,37	27,59					
max.H_S	kN	15,09	15,52	15,95	16,03	16,50	15,66	16,12	16,83	17,14	18,11	18,73					
min.H_S	kN	4,79	5,16	5,55	5,57	5,98	5,95	6,35	7,04	7,31	8,26	8,86					
max.P_U (V_{KR}= 40 m/min)	kN	50,51	22,95	26,38	26,80	30,43	36,51	40,55	50,09	53,64	64,73	75,20					
max.P_U (V_{KR}= 60 m/min)	kN	44,72	48,60	52,54	53,05	57,65	65,22	71,66	78,38	81,76	95,06	102,74					
G_G	kg	7637	8263	8906	8988	9683	10592	11338	12537	13041	14689	15737					

max. R - Max. wheel load without coefficient (deadweight + hoist load)
min. R - Min. wheel load without coefficient (deadweight + hoist load)
L, min. HM, max. HM - Drive inertia forces

S, max. HS, min. HS - Skewing forces with additional 10%
max. Pu - Max. buffer force with vibration coefficient 1,25
NPU=1 - Buffer against rigid stop

Loads and forces to DIN 15018

Wheel loads/inertia forces/skewing forces/buffer forces/crane dead weight forces

SWL 2 x 5 t - 2x EZDR5 - 5 4/1 FEM 2m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	4553	4934	5203	5408	5574	5734	5881	5993	6153	6250	6376	6504	6591	6756	6847	6975
max.R21 (+G_H)	kg	4042	4375	4611	4792	4939	5084	5219	5321	5472	5562	5681	5803	5884	6044	6130	6254
min.R12 (+G_H)	kg	2016	1727	1549	1434	1360	1334	1332	1321	1380	1391	1443	1507	1538	1654	1701	1790
min.R11 (+G_H)	kg	1742	1498	1350	1256	1198	1184	1190	1186	1250	1266	1321	1389	1422	1540	1588	1678
Rm = (2 x maxR + minR)V3		3537	4178	4238	4297	4357	4445	4541	4607	4752	4823	4940	5068	5145	5331	5422	5566
L	kN	0,71	0,76	0,81	0,87	0,92	1,00	1,09	1,15	1,28	1,34	1,45	1,56	1,63	1,80	1,88	2,01
min.HM	kN	0,14	0,19	0,24	0,30	0,35	0,43	0,51	0,59	0,72	0,82	0,95	1,11	1,24	1,48	1,64	1,87
max.HM	kN	0,31	0,55	0,83	1,13	1,45	1,83	2,25	2,65	3,18	3,63	4,16	4,72	5,23	5,92	6,47	7,12
S	kN	16,93	17,18	17,42	17,67	17,91	18,27	18,67	18,94	19,54	19,83	20,31	20,83	21,15	21,92	22,29	22,88
max.H_S	kN	11,80	12,78	13,48	14,01	14,44	14,86	15,24	15,54	15,96	16,22	16,55	16,90	17,13	17,57	17,82	18,16
min.H_S	kN	5,13	4,40	3,94	3,66	3,47	3,41	3,43	3,40	3,58	3,61	3,76	3,93	4,02	4,35	4,47	4,72
max.P_U(V_{KR}= 40 m/min)	kN	8,72	9,93	10,99	11,79	13,02	14,48	15,97	17,32	19,97	21,32	23,27	25,71	27,20	30,52	32,04	34,86
max.P_U(V_{KR}= 60 m/min)	kN	23,35	27,15	31,02	34,45	38,36	21,62	24,18	26,72	31,33	34,48	39,04	43,47	31,01	34,28	35,72	37,94
G_G	kg	2353	2534	2713	2890	3071	3336	3622	3821	4255	4469	4821	5203	5435	5994	6266	6697

SWL 2 x 6,3 t - 2x EZDR10 - 6,3 4/1 FEM 4m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	4753	5159	5445	5708	5922	6077	6233	6382	6523	6661	6797	6967	7031	7205	7386	7575
max.R21 (+G_H)	kg	5981	6465	6803	7100	7341	7517	7689	7851	8002	8149	8292	8468	8538	8716	8901	9093
min.R12 (+G_H)	kg	2134	1825	1636	1577	1533	1489	1484	1502	1534	1580	1636	1738	1742	1864	1997	2144
min.R11 (+G_H)	kg	2494	2104	1860	1764	1690	1621	1597	1599	1617	1651	1697	1790	1786	1900	2026	2167
Rm = (2 x maxR + minR)V3		4289	5184	5248	5383	5495	5568	5668	5778	5892	6014	6141	6321	6366	6562	6770	6993
L	kN	0,83	0,89	0,94	1,06	1,17	1,23	1,32	1,42	1,52	1,63	1,75	1,91	1,95	2,13	2,31	2,51
min.HM	kN	0,16	0,22	0,28	0,36	0,45	0,52	0,61	0,72	0,84	0,98	1,14	1,34	1,46	1,72	2,00	2,32
max.HM	kN	0,37	0,66	0,99	1,39	1,84	2,28	2,77	3,31	3,89	4,50	5,14	5,89	6,45	7,26	8,11	8,99
S	kN	21,05	21,31	21,58	22,13	22,59	22,89	23,30	23,75	24,22	24,72	25,25	25,99	26,17	26,98	27,83	28,75
max.H_S	kN	14,74	15,96	16,81	17,58	18,21	18,66	19,11	19,54	19,94	20,33	20,71	21,18	21,37	21,85	22,35	22,87
min.H_S	kN	6,31	5,35	4,77	4,55	4,38	4,23	4,19	4,21	4,28	4,39	4,54	4,81	4,80	5,13	5,48	5,88
max.P_U(V_{KR}= 40 m/min)	kN	10,48	11,74	13,31	15,61	17,92	19,54	21,52	23,50	25,80	28,15	30,49	33,49	34,59	45,08	21,39	24,69
max.P_U(V_{KR}= 60 m/min)	kN	28,86	34,23	40,66	23,48	27,83	30,70	34,95	39,46	43,72	50,80	56,82	37,09	37,87	42,59	46,37	50,68
G_G	kg	2862	3053	3244	3649	3986	4204	4503	4834	5176	5541	5922	6463	6597	7185	7810	8479

End carriage: Travel wheel diameter Ød - Travel wheel tread b_{wheel} - Crane runway rail width b_{rail}: 160-65-50; 200-65-50; 250-55-70.

2035561K5.p65/180405

SWL 2 x 5 t - 2x EZDR5 - 5 4/1 FEM 2m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	7306	7403	7579	7767	7803	8128	8334	8579	8686	9293	9574					
max.R21 (+G_H)	kg	6728	6821	6994	7179	7213	7627	7830	8072	8176	8779	9057					
min.R12 (+G_H)	kg	2157	2221	2369	2530	2542	2858	3044	3270	3359	3951	4216					
min.R11 (+G_H)	kg	2062	2127	2275	2436	2448	2758	2942	3168	3256	3843	4107					
Rm = (2 x maxR + minR)V3		5397	6191	6406	6637	6669	6204	7383	7696	7826	8622	8985					
L	kN	2,48	2,57	2,77	2,97	3,00	3,41	3,64	3,93	4,04	4,76	5,09					
min.HM	kN	1,97	2,15	2,43	2,73	2,88	2,67	2,96	3,29	3,50	4,16	4,53					
max.HM	kN	6,54	7,03	7,62	8,22	8,66	7,50	7,99	8,51	8,93	9,64	10,14					
S	kN	23,21	23,62	24,44	25,32	25,44	24,83	25,74	26,83	27,28	30,06	31,32					
max.H_S	kN	17,87	18,12	18,56	19,03	19,12	18,34	18,81	19,38	19,62	21,03	21,68					
min.H_S	kN	5,34	5,50	5,88	6,29	6,32	6,49	6,93	7,45	7,66	9,03	9,64					
max.P_U (V_{KR} = 40 m/min)	kN	22,84	24,58	27,80	32,02	32,75	40,68	46,91	53,95	56,69	76,35	41,47					
max.P_U (V_{KR} = 60 m/min)	kN	48,47	50,55	54,31	59,38	60,16	71,81	76,18	82,06	85,49	103,75	114,04					
G_G	kg	8253	8572	9217	9912	10006	11371	12150	13089	13477	15866	16954					

SWL 2 x 6,3 t - 2x EZDR10 - 6,3 4/1 FEM 4m

L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	8046	8156	8431	8618	8689	9834	10267	10602	11018	11304	11904					
max.R21 (+G_H)	kg	9249	9361	9637	9825	9897	9140	9570	9902	10312	10595	11192					
min.R12 (+G_H)	kg	2424	2499	2742	2899	2944	3126	3534	3839	4233	4498	5079					
min.R11 (+G_H)	kg	2431	2501	2740	2894	2935	3013	3421	3726	4115	4380	4959					
Rm = (2 x maxR + minR)V3		6573	7506	7850	8079	8155	7367	8931	9356	9893	10259	11045					
L	kN	2,86	2,98	3,28	3,49	3,56	3,75	4,26	4,64	5,12	5,45	6,16					
min.HM	kN	2,25	2,46	2,87	3,20	3,40	2,95	3,47	3,91	4,43	4,85	5,54					
max.HM	kN	8,02	8,62	9,46	10,17	10,76	9,10	9,90	10,60	11,33	11,96	12,75					
S	kN	28,16	28,63	29,94	30,82	31,11	29,18	31,13	33,01	34,91	36,20	38,97					
max.H_S	kN	22,02	22,30	23,00	23,48	23,66	22,08	23,08	24,14	25,12	25,79	27,19					
min.H_S	kN	6,14	6,33	6,94	7,34	7,45	7,10	8,05	8,87	9,79	10,41	11,78					
max.P_U (V_{KR} = 40 m/min)	kN	30,92	33,60	39,31	43,92	45,91	51,55	62,00	74,87	42,63	45,45	51,74					
max.P_U (V_{KR} = 60 m/min)	kN	58,19	61,12	69,66	74,18	75,51	79,72	93,29	102,46	117,52	127,71	150,19					
G_G	kg	9650	10017	11050	11736	11965	12613	14292	15569	17178	18277	20634					

max. R - Max. wheel load without coefficient (deadweight + hoist load)
min. R - Min. wheel load without coefficient (deadweight + hoist load)
L, min. HM, max. HM - Drive inertia forces
S, max. HS, min. HS - Skewing forces with additional 10%
max. Pu - Max. buffer force with vibration coefficient 1,25
NPU=1 - Buffer against rigid stop

Loads and forces to DIN 15018

Wheel loads/inertia forces/skewing forces/buffer forces/crane dead weight forces

SWL 2 x 8 t - 2x EZDR10 - 8 4/1 FEM 3m

L_{KR}	m	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
max.R22 (+G_H)	kg	5847	6336	6679	6953	7181	7399	7556	7746	7878	8162	8367	8518	8683	8835	9030	9252
max.R21 (+G_H)	kg	7418	8013	8425	8748	9013	9259	9438	9646	9793	10090	10306	10466	10637	10795	10996	11222
min.R12 (+G_H)	kg	2609	2216	1971	1824	1738	1710	1671	1700	1699	1858	1967	2035	2127	2215	2353	2523
min.R11 (+G_H)	kg	3106	2605	2286	2087	1961	1902	1838	1846	1827	1969	2065	2121	2202	2281	2410	2573
Rm = (2 x maxR + minR)V3		5291	6390	6454	6537	6631	6757	6834	6979	7066	7360	7568	7713	7883	8042	8263	8523
L	kN	0,89	0,95	1,01	1,08	1,17	1,28	1,35	1,48	1,56	1,82	2,01	2,14	2,29	2,44	2,64	2,87
min.HM	kN	0,17	0,24	0,30	0,37	0,44	0,53	0,61	0,73	0,83	1,08	1,30	1,49	1,71	1,95	2,26	2,63
max.HM	kN	0,40	0,71	1,06	1,47	1,92	2,45	2,96	3,60	4,18	5,14	6,00	6,79	7,64	8,50	9,48	10,55
S	kN	26,01	26,27	26,53	26,88	27,26	27,78	28,10	28,69	29,05	30,52	31,39	31,99	32,69	33,35	34,27	35,35
max.H_S	kN	18,20	19,69	20,73	21,55	22,22	22,86	23,32	23,86	24,25	25,27	25,85	26,28	26,74	27,17	27,72	28,34
min.H_S	kN	7,81	6,58	5,80	5,33	5,04	4,92	4,78	4,83	4,80	5,25	5,54	5,71	5,95	6,18	6,55	7,01
max.P_U(V_{KR}= 40 m/min)	kN	11,18	12,80	14,30	15,88	17,96	20,48	22,09	24,74	26,53	31,74	37,74	45,42	21,13	23,21	26,73	31,00
max.P_U(V_{KR}= 60 m/min)	kN	31,84	36,88	21,33	23,96	27,90	32,50	36,29	41,75	45,90	60,06	38,88	42,72	45,83	48,90	52,97	58,27
G_G	kg	2980	3170	3361	3612	3893	4270	4503	4938	5197	6079	6705	7140	7649	8126	8789	9570
G_1	kg	353	446	539	662	800	986	1100	1315	1442	1679	1990	2205	2457	2693	3022	3410
LKR / f_N (min. 800)		2563	1554	1049	833	924	832	870	817	847	816	886	825	891	841	830	838
v_v	Hz	12,21	8,49	6,36	5,23	5,14	4,58	4,43	4,08	3,96	3,72	3,71	3,44	3,45	3,23	3,10	3,01
v_h	Hz	37,14	25,85	19,15	15,07	12,28	10,29	8,63	7,45	6,42	5,65	5,03	4,46	4,01	3,60	3,27	2,98

End carriage: Travel wheel diameter Ød - Travel wheel tread b_{wheel} - Crane runway rail width b_{rail}: 160-65-50; 200-65-50; 250-55-70.

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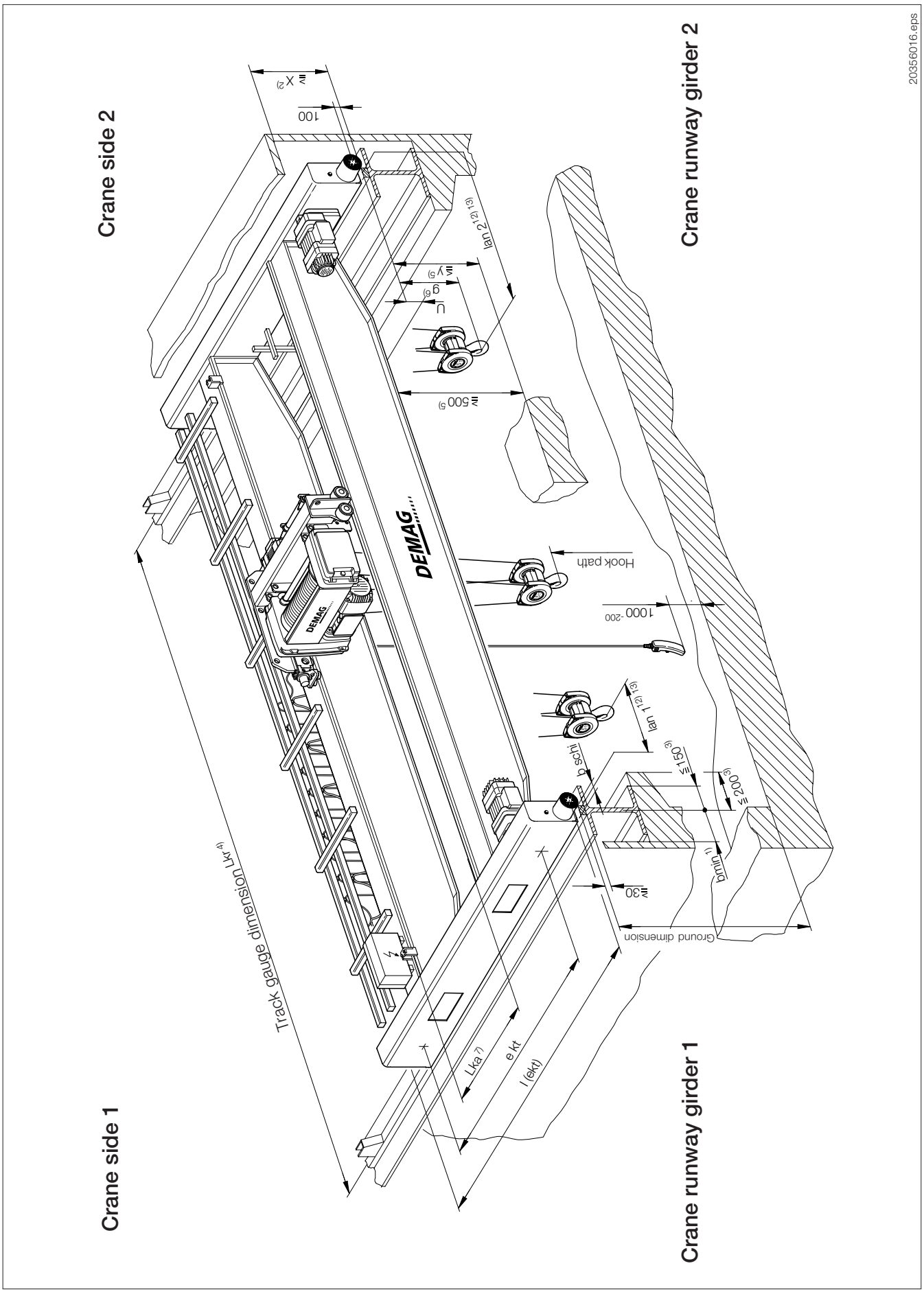
SWL 8 t - 2x EZDR10 - 8 4/1 FEM 3m

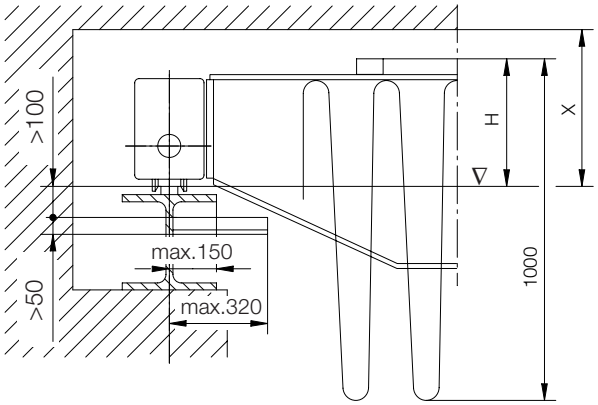
L_{KR}	m	20	21	22	23	24	25	26	27	28	29	30					
max.R22 (+G_H)	kg	9809	10016	10096	10309	10621	12033	12318	12276	12540	12823	13267					
max.R21 (+G_H)	kg	11373	11582	11664	11879	12193	11208	11490	11442	11703	11983	12424					
min.R12 (+G_H)	kg	2837	3001	3042	3219	3500	3706	3960	3889	4126	4383	4803					
min.R11 (+G_H)	kg	2864	3022	3058	3231	3507	3588	3841	3766	4003	4259	4679					
Rm = (2 x maxR + minR)V3		8006	9207	9287	9546	9940	8982	10536	10458	10791	11149	11724					
L	kN	3,26	3,49	3,56	3,79	4,15	4,36	4,68	4,61	4,91	5,23	5,75					
min.HM	kN	2,54	2,87	3,07	3,44	3,95	3,41	3,82	3,90	4,31	4,76	5,38					
max.HM	kN	9,45	10,29	10,95	11,83	12,86	10,88	11,66	12,10	12,87	13,65	14,58					
S	kN	34,54	35,49	35,80	36,80	38,32	35,91	37,18	36,90	38,07	39,34	41,37					
max.H_S	kN	27,25	27,78	27,99	28,54	29,35	27,36	28,03	27,92	28,54	29,20	30,24					
min.H_S	kN	7,29	7,71	7,81	8,26	8,97	8,55	9,15	8,98	9,53	10,14	11,13					
max.P_U (V_{KR}= 40 m/min)	kN	38,83	43,65	45,73	51,84	59,64	65,58	76,12	73,96	40,41	43,60	48,00					
max.P_U (V_{KR}= 60 m/min)	kN	68,79	74,00	75,39	80,01	90,29	95,52	103,55	101,7	110,75	121,13	138,61					
G_G	kg	10883	11621	11860	12638	13821	14535	15609	15373	16372	17448	19173					
G_1	kg	3965	4331	4449	4835	5424	5644	6179	6058	6556	7091	7951					
LKR / f_N (min. 800)		844	820	834	807	833	898	906	920	930	922	979					
v_v	Hz	2,91	2,78	2,74	2,61	2,57	2,51	2,45	2,43	2,37	2,30	2,29					
v_h	Hz	5,42	4,93	4,59	4,21	3,87	3,36	3,12	3,95	3,68	3,44	3,21					

max. R - Max. wheel load without coefficient (deadweight + hoist load)
min. R - Min. wheel load without coefficient (deadweight + hoist load)
L, min. HM, max. HM - Drive inertia forces
S, max. HS, min. HS - Skewing forces with additional 10%
max. Pu - Max. buffer force with vibration coefficient 1,25
NPU=1 - Buffer against rigid stop

ZKKE - design ①



ZKKE with KBK25 (trailing cable)



Height of the loop for KBK 25 (trailing cable) ≤ 1050 mm (from top edge of crane to lower cable loop).

∇ = Top edge of crane runway rail

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The dimensions given in this document were calculated on the basis of certain assumptions. Non-standard dimensions may result in individual cases. The exact dimensions are calculated by computer when an order is placed.

General information

- Technical data for other hoisting classes, loading groups and groups of mechanisms on request.
- The dimensions given are rated dimensions. Corresponding tolerances must be considered. They may result in non-standard dimensions.
- Overall dimensions and weights refer to the basic crab design. Non-standard dimensions must be checked by static calculation
- Higher hook paths increase lan1 and lan2. The approach dimensions refer to the highest hook position.
- Min. wheel base 2500 mm (smaller wheel base on request).
- For raised cranes, the impact on the end carriages and the approach dimensions must be checked.

1) Check mounting possibilities (b_{min} = min. lateral crane clearance dimension).
2) Crane power supply line on crane runway girder.
3) Dimenstion > 150 or 200 modification of lan1 and lan2.
4) Permissible track gauge dimension tolerance of crane runway:
   for Lkr £ 15 m: ± 5 mm
   for Lkr > 15 m: ± (5 + 0,25 (Lkr – 15)) mm
   according to DIN 4132, with Lkr in [m].
5) According to UVV BGV D6 (VBG 9) a minimum safety distance of 500 mm must be maintained between the mobile and stationary crane parts. An exception to this is the bottom block suspended from the rope.
6) When an operating limit switch is fitted, hook dimension C or g are increased:
   2/1 reeving: + 50 mm
   4/1 reeving: + 20 mm
7) Lka may have to be changed for larger drum lengths.

Notizen

203561K6.p65/180405

Notizen

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