

USER MANUAL
VR26NG
TECHNICAL SHEET

D TECHNICAL SHEET



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TECHNICAL SHEET

D.1 CRANE'S TECHNICAL DATA

Versions			2S	3S	4S	5S	6S	7S	8S
Max. net lifting moment		 <i>t m</i> <i>kNm</i>	24.8 243	24.3 238	23.8 233	23.3 229	22.9 225	22.6 222	22.3 219
Max. dynamic moment		 <i>daNm</i> <i>kNm</i>	28290 282.9						
Capacity at min. hydraulic outreach Max rated capacity	hook [S2]	 <i>kg</i>	5795	5680	5455	5260	5070	4910	4755
	grab [S1]	 <i>kg</i>	5795	5680	5455	5260	5070	4910	4755
	min. outreach	 <i>m</i>	4.28	4.28	4.36	4.44	4.53	4.61	4.70
Capacity at max. hydraulic outreach	hook [S2]	 <i>kg</i>	3015	2300	1775	1385	1085	855	670
	grab [S1]	 <i>kg</i>	3015	2300	1775	1385	1085	855	670
	max. outreach	 <i>m</i>	8.08	10.11	12.22	14.43	16.65	18.90	21.18
Capacity of 1st man. extension	capacity	 <i>kg</i>	N/A	1845	1430	1145	910	715	580
	max. outreach	 <i>m</i>	N/A	12.22	14.44	16.65	18.90	21.18	23.28
Max. load height above the base for the last extension	hydraulic	 <i>m</i>	10.4	12.4	14.5	16.7	19.0	21.2	23.5
	manual	 <i>m</i>	N/A	19.0	21.2	23.5	23.5	25.6	25.6
Weight of crane without stabilizers		 <i>kg</i>	2460	2600	2740	2865	2970	3090	3180
Weight of stabilizers		EX-H <i>kg</i>	355						
		SE-H <i>kg</i>	510						
Weight of 1st man ext.		 <i>kg</i>	N/A	80	85	65	63	43	32
Max. working pressure		 <i>bar</i>	345						
Max. oil flow rate		 <i>l/min</i>	80						
Power needed		 <i>kW</i>	59.8						
Oil tank capacity		 <i>l</i>	130						
Slewing angle		 <i>°</i>	endless						
Gross slewing torque	1 gear motor	 <i>daNm</i> <i>kNm</i>					2580 25.8		
	2 gear motors	 <i>daNm</i> <i>kNm</i>					5160 51.6		
Max boom inclination for use with CE winch		<i>°</i>	75°						
Max. base inclination		<i>°</i>	4°						
		<i>°</i>	3°						
Max. stabilizer force on the ground with stabilizer fully extended	EX	<i>daN</i>	10880						
	SE	<i>daN</i>	7950						
Max. stabilizer pressure on the ground with stabilizer fully extended	EX	<i>MPa</i>	2.9						
	SE	<i>MPa</i>	2.1						
Lifting conversion factor, k		<i>kgm/bar</i>	85.10						
Distribution factor of dyn. moment on base, β		-	0.82						
Position of standard dead point (see D.6)									

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Versions			4SJ3	5SJ3	6SJ2	
Max. net lifting moment		$t\ m$ kNm	21.1 207	19.1 188	12.6 123	
Max. dynamic moment		$daNm$ kNm	28010 280.1	27160 271.6	26455 264.5	
Capacity at min. hydraulic outreach Max rated capacity	hook [S2]		kg	2880	2640	1350
	grab [S1]		kg	N/A	N/A	N/A
	min. outreach		m	7.36	7.27	7.26
Capacity at max. hydraulic outreach	hook [S2]		kg	595	525	560
	grab [S1]		kg	N/A	N/A	N/A
	max. outreach		m	20.41	21.94	22.24
Capacity of 1st man. extension	capacity		kg	510	465	390
	max. outreach		m	22.08	23.60	23.80
Max. load height above the base for the last extension	hydraulic		m	22.7	24.2	24.5
	manual		m	26.5	27.7	26.1
Weight of crane without stabilizers		kg	3400	3355	3245	
Weight of stabilizers	EX-H	kg	355			
	SE-H	kg	510			
Weight of 1st man ext.		kg	35	30	22	
Max. working pressure		bar	355	350		
Max. oil flow rate		l/min	80			
Power needed		kW	61.5	60.6		
Oil tank capacity		l	130			
Slewing angle		°	endless			
Gross slewing torque	1 gear motor		$daNm$ kNm	2580 25.8		
Gross slewing torque	2 gear motors		$daNm$ kNm	5160 51.6		
Max boom inclination for use with CE winch		°	75°			
Max. base inclination		°	3°			
			N/A			
Max. stabilizer force on the ground	EX	daN	10780	10450	10180	
with stabilizer fully extended	SE	daN	7870	7630	7440	
Max. stabilizer pressure on the ground with stabilizer fully extended	EX	MPa	2.83	2.75	2.68	
	SE	MPa	2.07	2.01	1.95	
Lifting conversion factor, k		kgm/bar	85.10			
Distribution factor of dyn. moment on base, β	-		0.82			
Position of standard dead point (see D.6)						

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D.2 WINCH SETTINGS

T11 - SINGLE LINE PULL

Versions	4SJ3	5SJ3	6SJ2
 Max line pull <i>kg</i>	1000	1000	1000
Start angle - pull% Final angle - pull% 	-	-	-

T12 - SINGLE LINE PULL

Versions	2S	3S	4S	5S	6S	7S	8S
 Max line pull <i>kg</i>	2000	2000	2000	2000 (*)	2000 (*)	2000 (*)	2000 (*)
Start angle - pull% Final angle - pull% 	-	-	-	47°-97% 75°-86%	55°-93% 75°-86%	51°-59% 75°-53%	45°-45% 75°-38%

N/A: configuration not available

(*): configuration requiring pull derating: available only for CE/TOP cranes (PCS)

Pull%: pull derating percentage



When the crane is equipped with winch, the max. working pressure and the limiter setting pressure are increased by 10 bar with respect to the standard ones.

D.3 TOTAL WEIGHTS

The table shows the total weights including oil inside the cylinders (fully retracted) and considering oil tank empty.

<i>kg</i>	Crane version									
Type of stabilizers	2S	3S	4S	5S	6S	7S	8S	4SJ3	5SJ3	6SJ2
EX-H	2815	2955	3095	3220	3325	3445	3535	3755	3710	3600
SE-H	2970	3110	3250	3375	3480	3600	3690	3910	3865	3755

The weights may vary by $\pm 3\%$

Additional weight for T11 winch: 95 kg

Additional weight for T12 winch: 150 kg

Additional weight of 1st extra function activated with slides: 8 kg pro hydraulic extension

Additional weight of 2nd extra function activated with slides: 2 kg pro hydraulic extension

Additional weight of 1st extra function activated with hose reel: 20 kg

Additional weight of 2nd extra function activated with hose reel: 10 kg

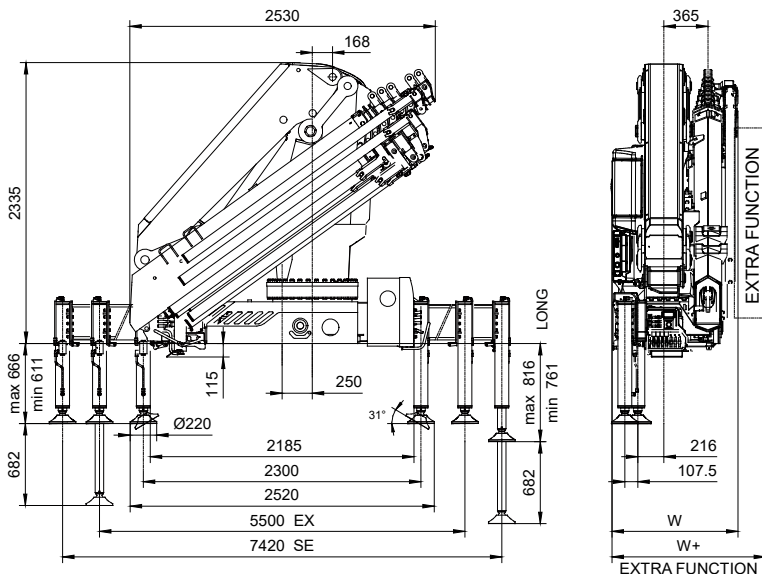
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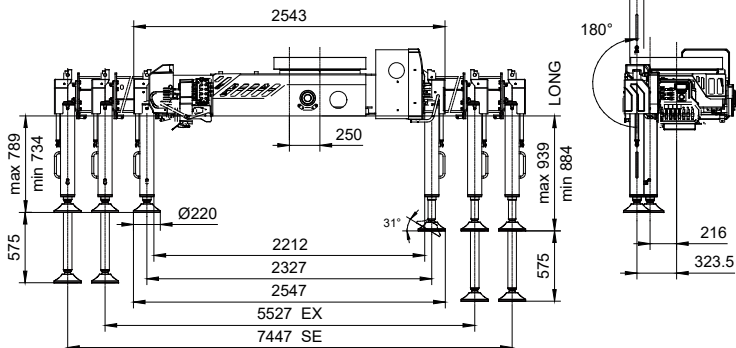
D.4 OVERALL DIMENSIONS

FIXED STABILIZERS LEGS



	2S	3S	4S	5S	6S	7S	8S
W (mm)	980	980	980	980	980	1055	1055
slides	1100	1100	1100	1100	1100	N/A	N/A
W+ (mm)							
hose reel	N/A	N/A	N/A	N/A	N/A	1130	1130

TURNING STABILIZERS LEGS



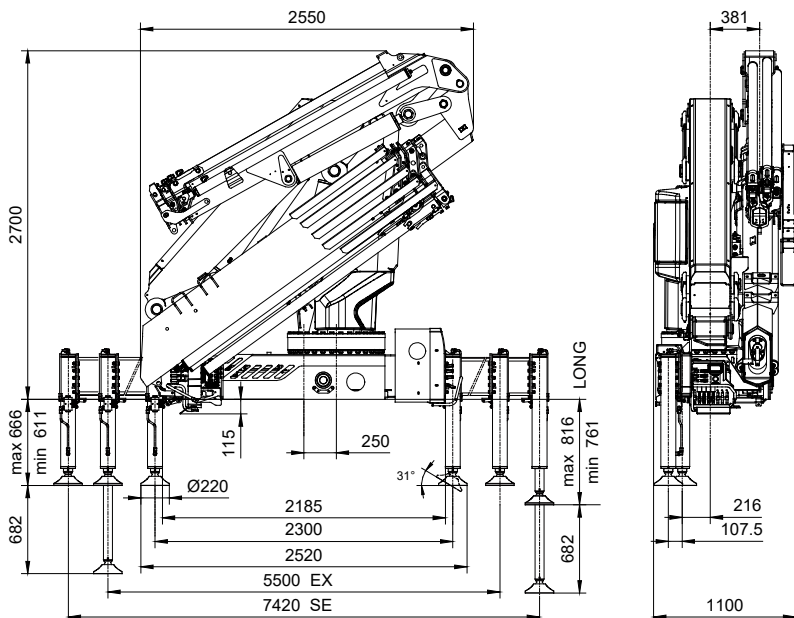
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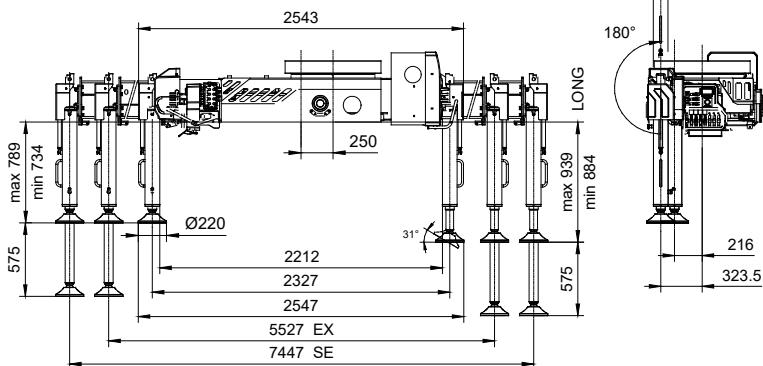
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OVERALL DIMENSIONS 4SJ3

FIXED STABILIZERS LEGS



TURNING STABILIZERS LEGS



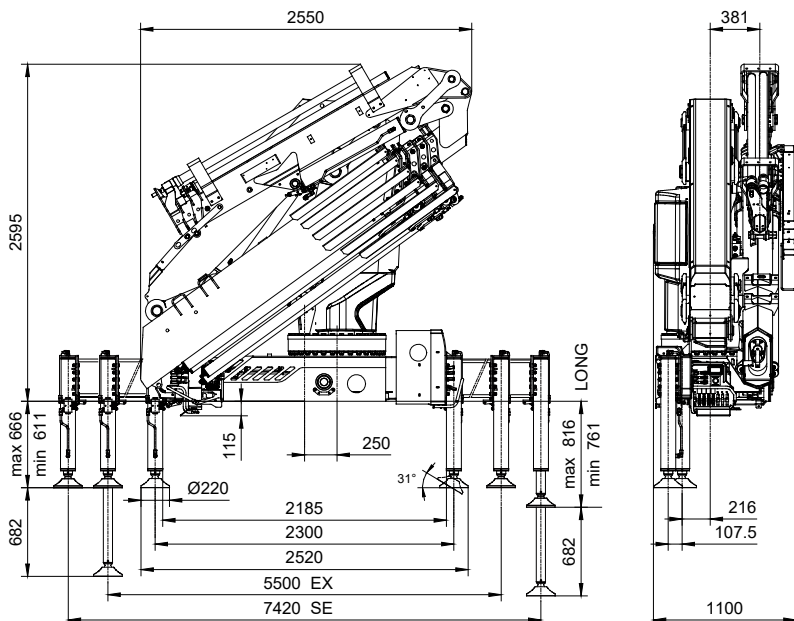
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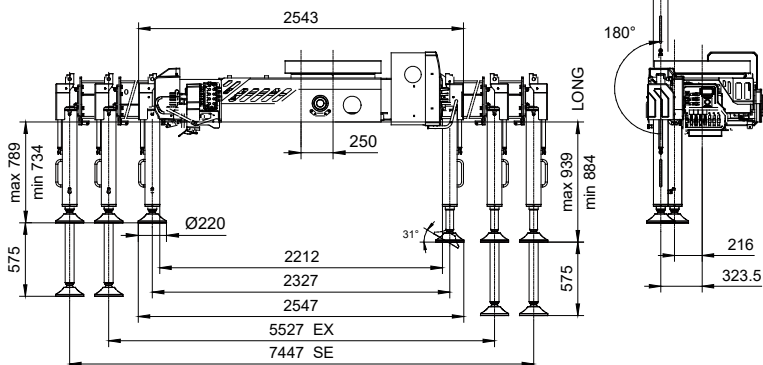
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OVERALL DIMENSIONS 5SJ3

FIXED STABILIZERS LEGS



TURNING STABILIZERS LEGS



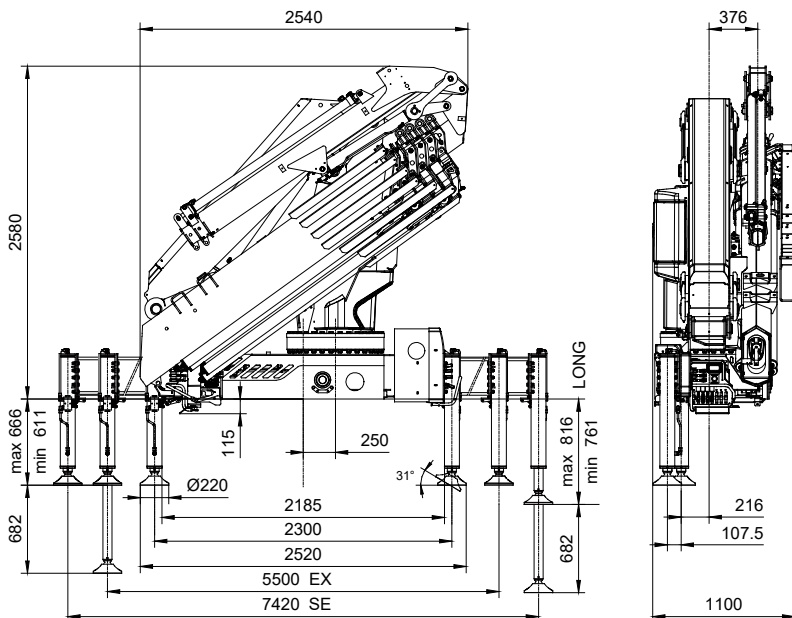
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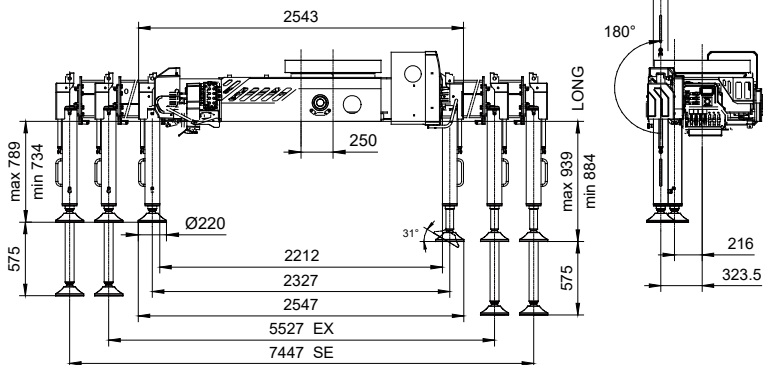
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OVERALL DIMENSIONS 6SJ2

FIXED STABILIZERS LEGS



TURNING STABILIZERS LEGS

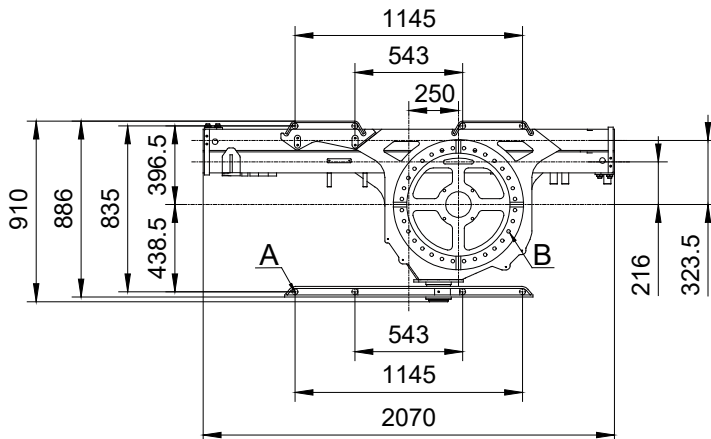


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D.5 BASE DIMENSIONS AND MOUNTING BOLTS

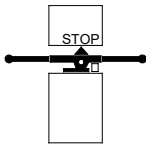
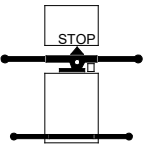
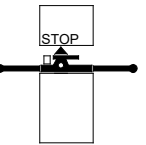
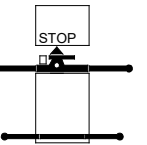
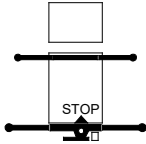
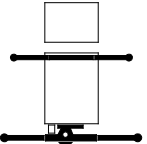
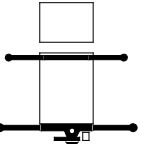
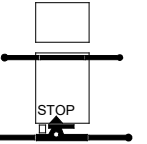
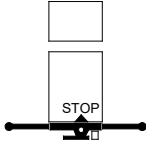
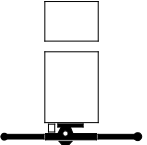
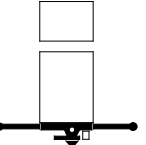
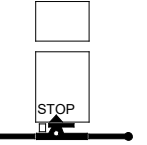
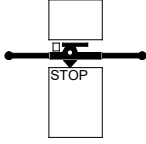
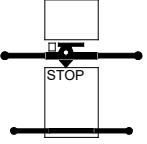
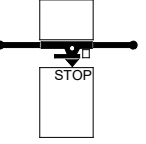
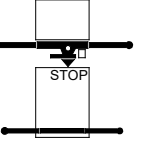


Ref.	Description	Q.ty	Material Grade	Size (Q.ty)	Tightening torque
A	Kit with 8 crane mounting bolts	8	42CrMo4+QT EN 10083-3	M24x2 L=1100 (4) L=1015 (4)	400 Nm
	Kit with 4 crane mounting bolts	4	42CrMo4+QT EN 10083-3	M30x2 L=1000 (2) L=1100 (2)	700 Nm
B	Fixing bolts for slewing bearing	32	10.9	M20x2.5 L=150	484 Nm (570 Nm x 0.85) See E.4

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D.6 INSTALLATION TYPE NUMBER

Installation types numbers (ITN) for cranes with standard dead point (STOP) toward swivel bridge.

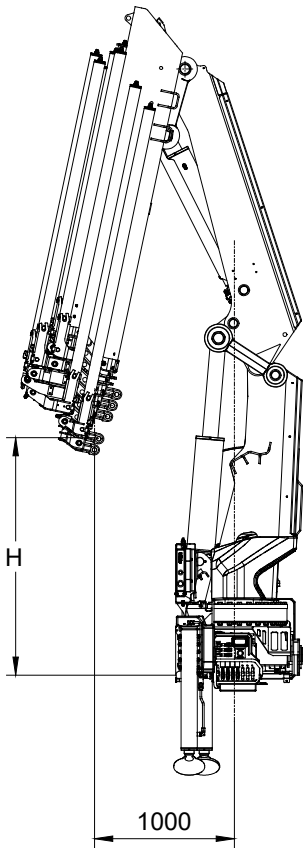
OPPOSITE DEAD POINT		STANDARD DEAD POINT	
1 	2 	3 	4 
5 	6 	7 	8 
9 	10 	11 	12 
13 	14 	15 	16 

Legend:

- ▲ : position of dead point (STOP)
- : position of main manual controls (on column side)

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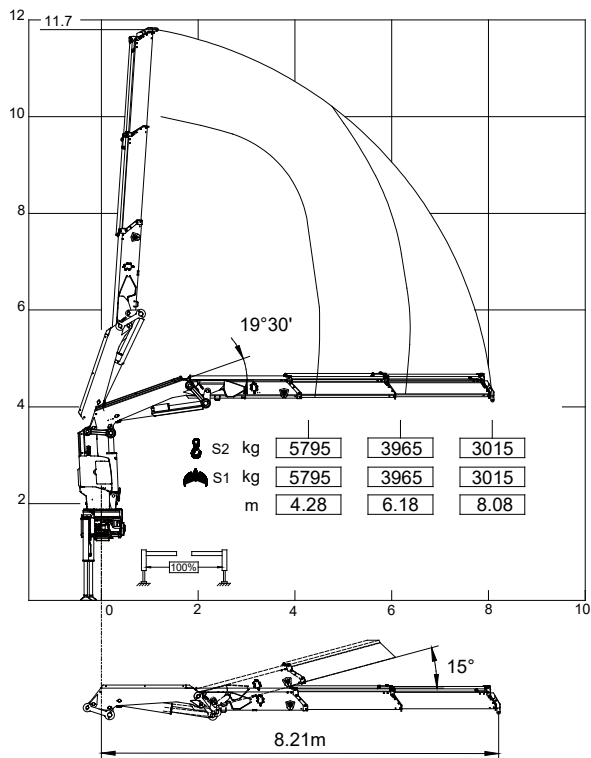
D.7 LIFTING HEIGHT CLOSE TO THE COLUMN



Version	H mm
2S	2040
3S	2040
4S	1952
5S	1865
6S	1778
7S	1696
8S	1609

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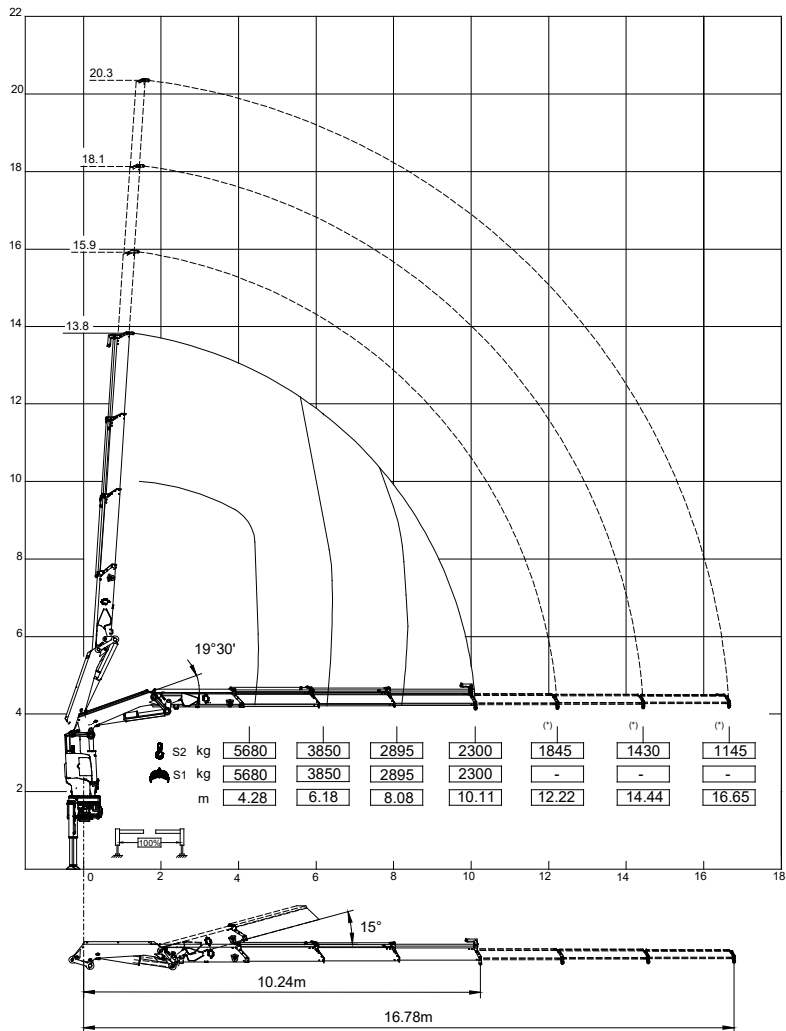
D.8 LOAD CHARTS FOR USE WITH HOOK/TOOL
VR26NG 2S



If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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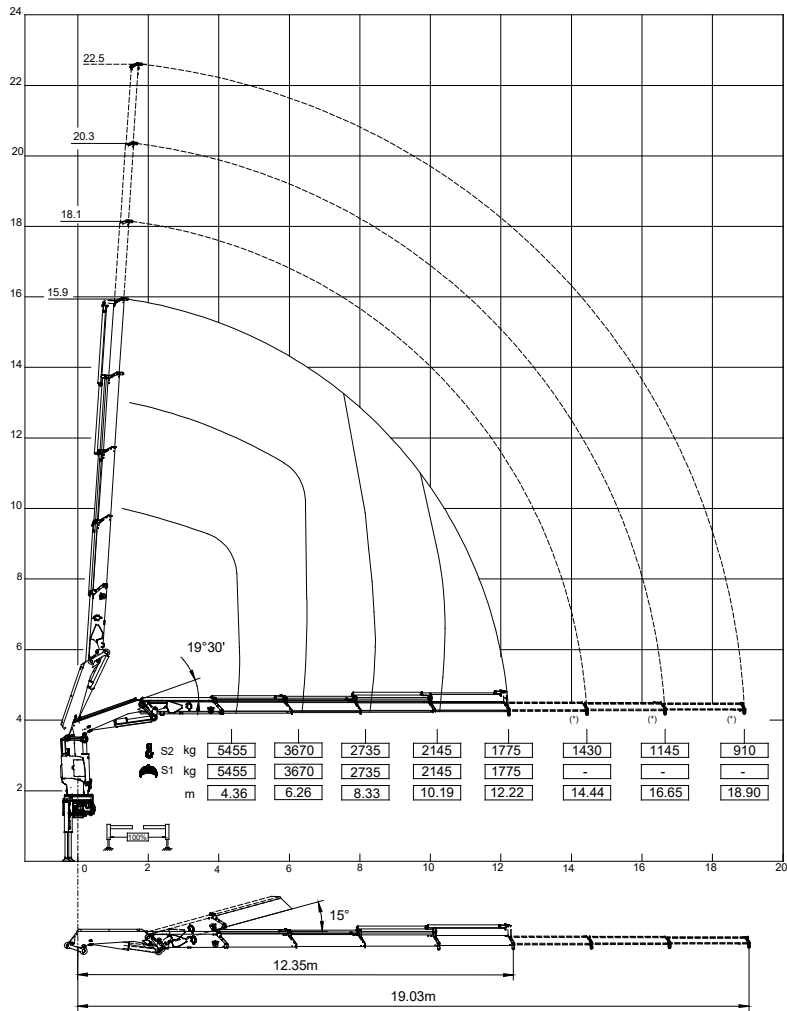
LOAD CHARTS FOR USE WITH HOOK/TOOL
VR26NG 3S



(*) Manual extensions (optional): these cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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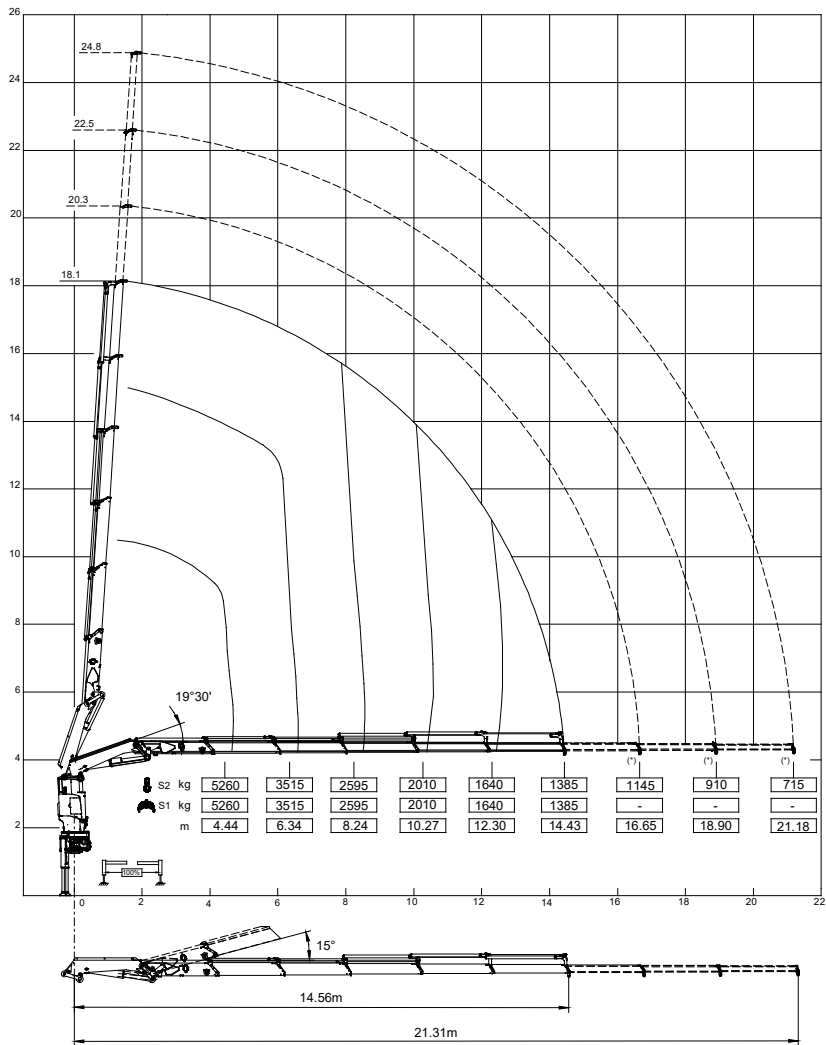
LOAD CHARTS FOR USE WITH HOOK/TOOL
VR26NG 4S



(*) Manual extensions (optional): these cannot lift additional hydraulic tools
 If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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LOAD CHARTS FOR USE WITH HOOK/TOOL
VR26NG 5S



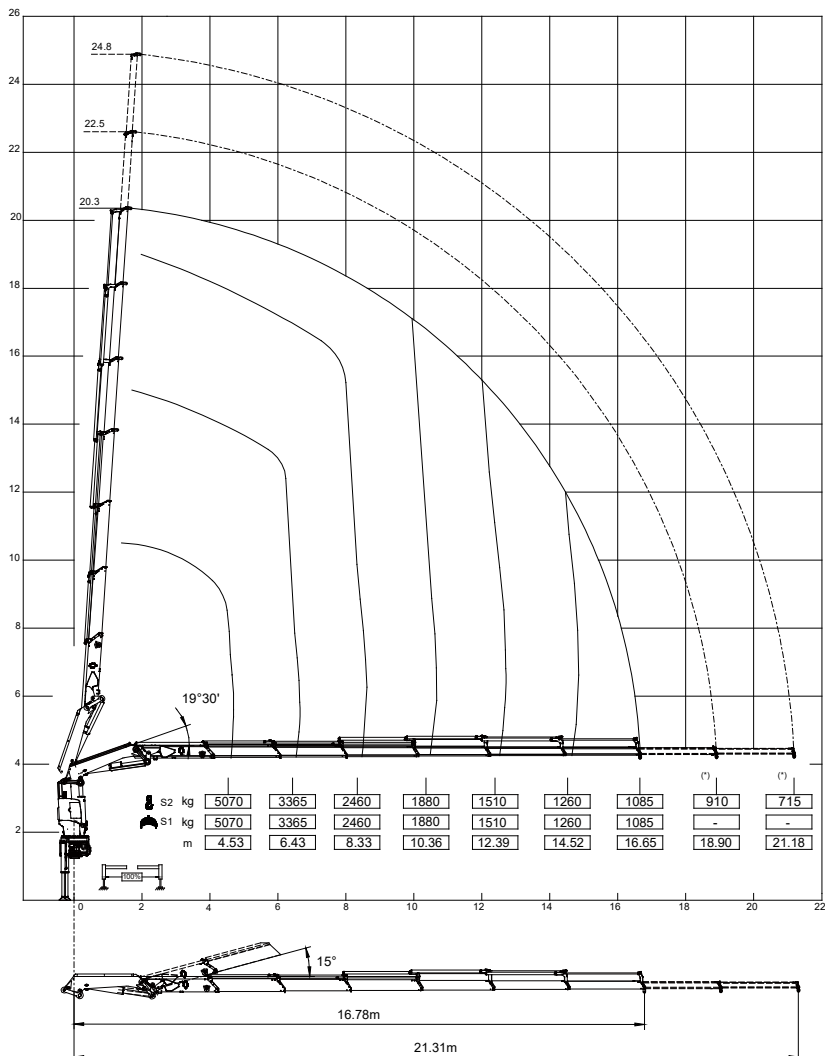
(*) Manual extensions (optional): these cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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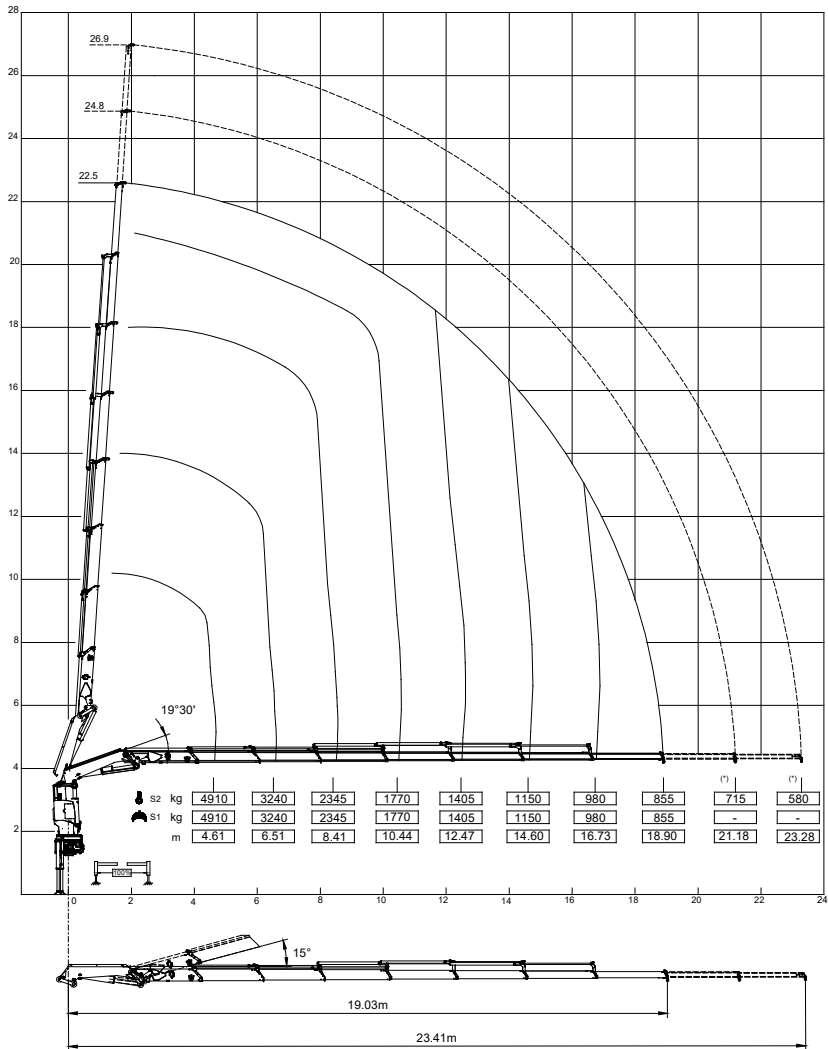
LOAD CHARTS FOR USE WITH HOOK/TOOL VR26NG 6S



(*) Manual extensions (optional): these cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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LOAD CHARTS FOR USE WITH HOOK/TOOL
VR26NG 7S



(*) Manual extensions (optional): these cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

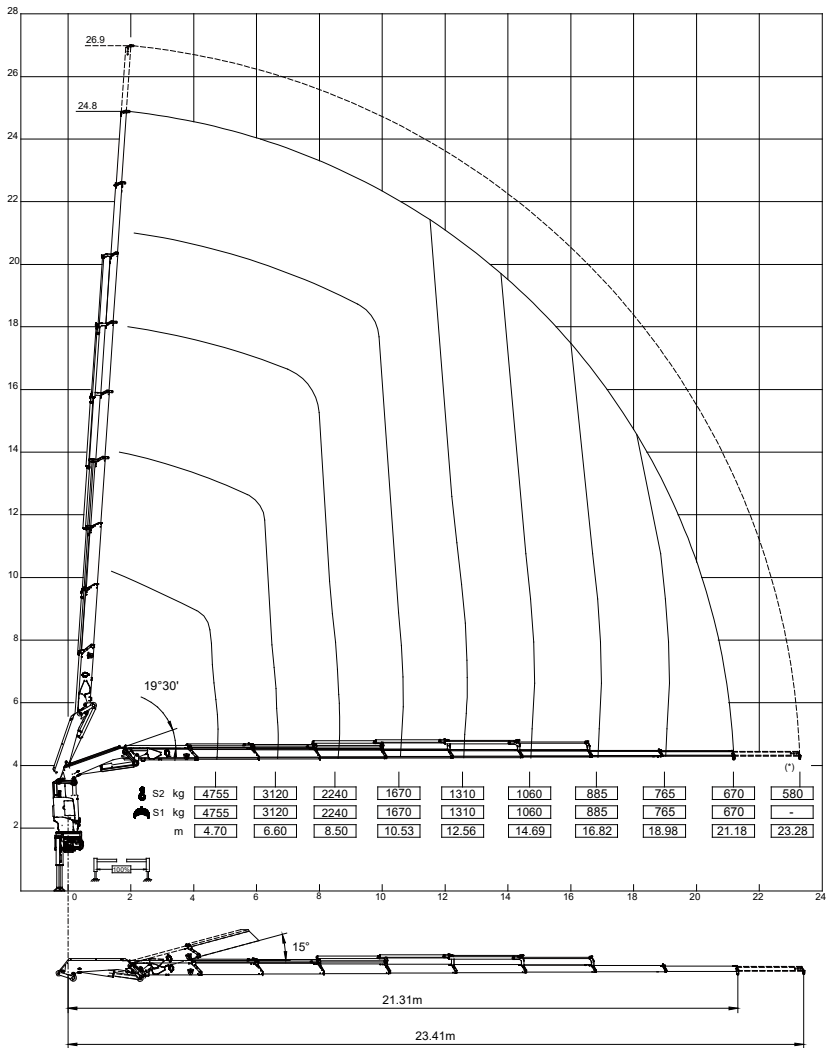
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LOAD CHARTS FOR USE WITH HOOK/TOOL

VR26NG 8S



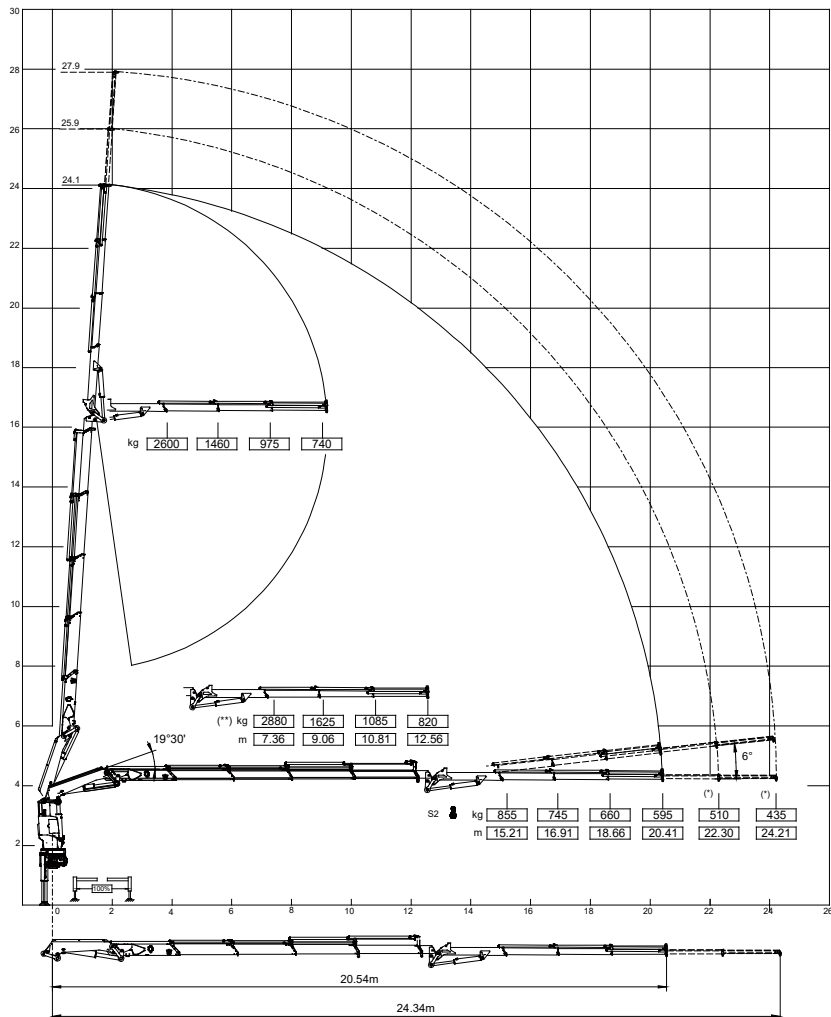
(*) Manual extensions (optional): these cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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LOAD CHARTS FOR USE WITH HOOK HC265 4SJ3



(*) Manual extensions (optional): these cannot lift additional hydraulic tools

(**) Max. lifting capacity of jib

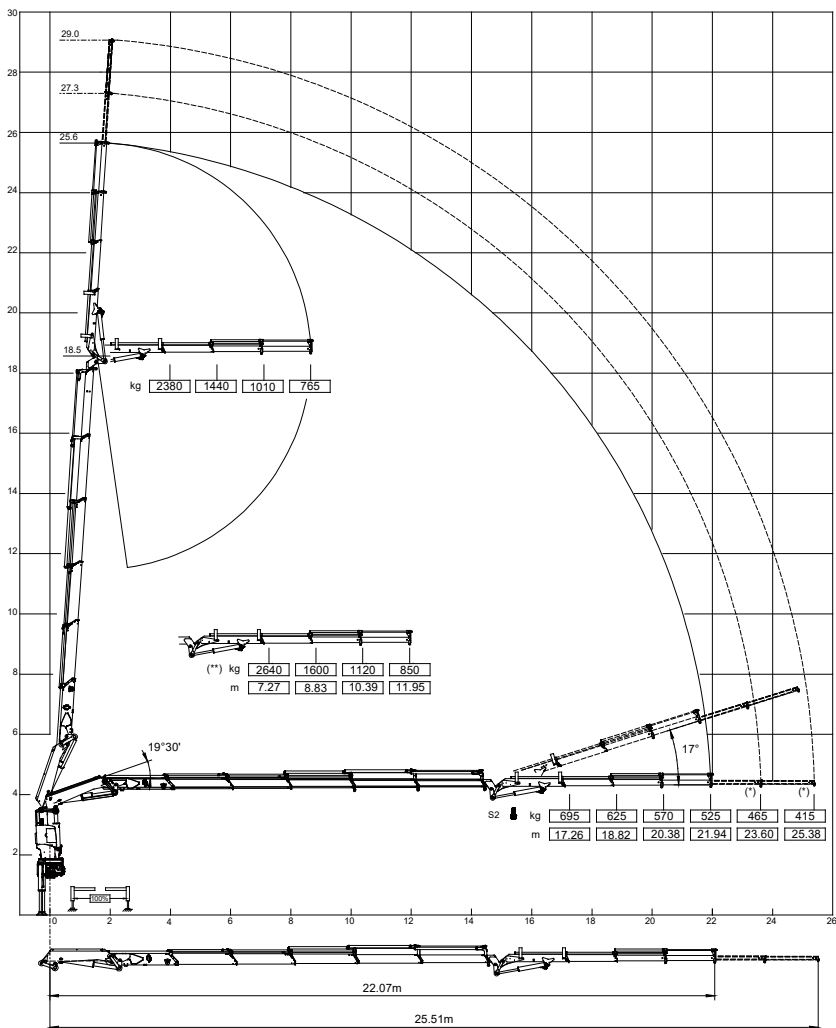
The given rated capacities can be moved only by operating the jib.

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LOAD CHARTS FOR USE WITH HOOK HC265 5SJ3



(*) Manual extensions (optional): these cannot lift additional hydraulic tools

(**) Max. lifting capacity of jib

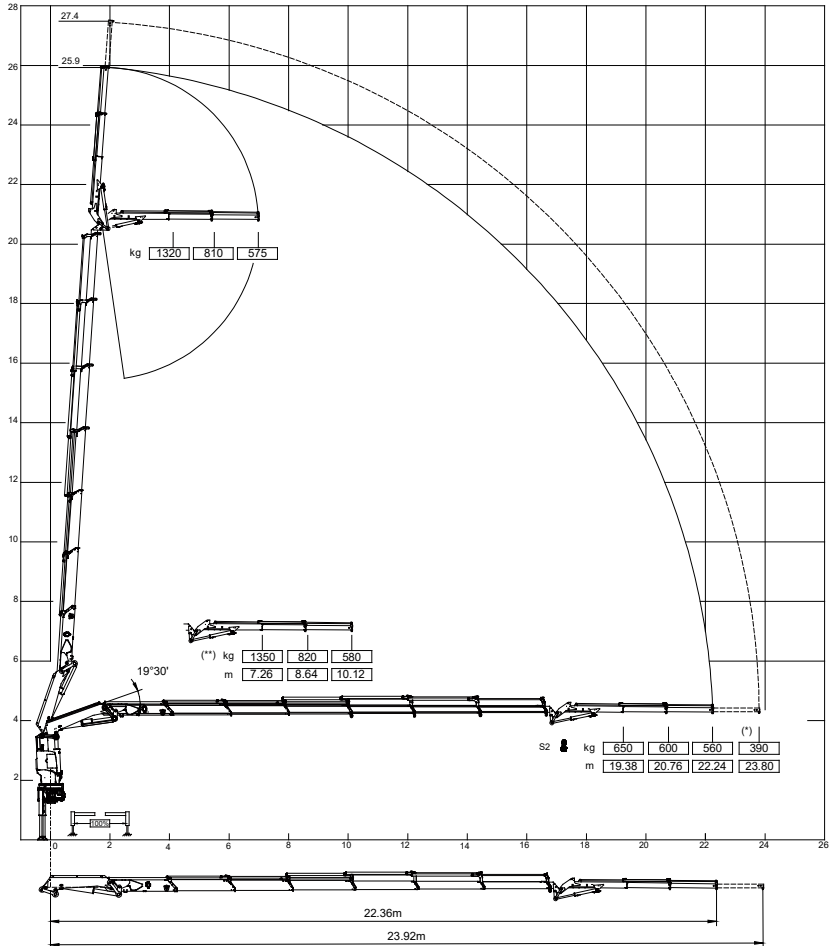
The given rated capacities can be moved only by operating the jib.

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LOAD CHARTS FOR USE WITH HOOK HC265 6SJ2



(*) Manual extensions (optional): these cannot lift additional hydraulic tools

(**) Max. lifting capacity of jib

The given rated capacities can be moved only by operating the jib.

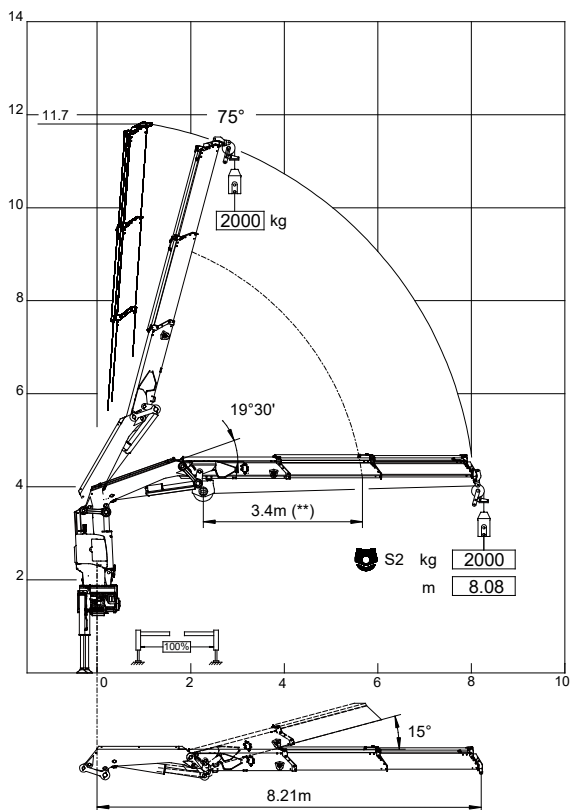
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D.9 LOAD CHARTS FOR T12 WINCH IN SINGLE LINE

VR26NG 2S + T12 SINGLE LINE



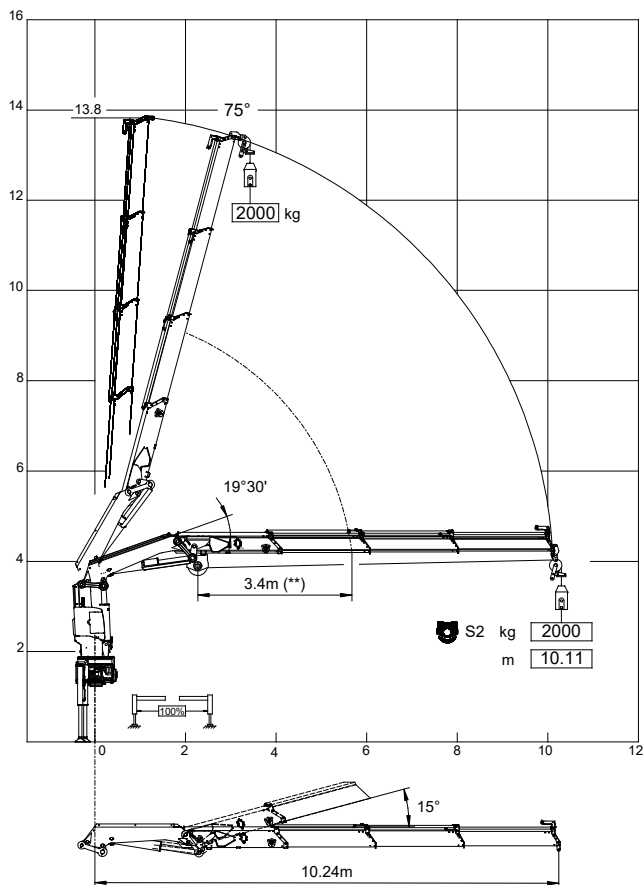
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE VR26NG 3S + T12 SINGLE LINE



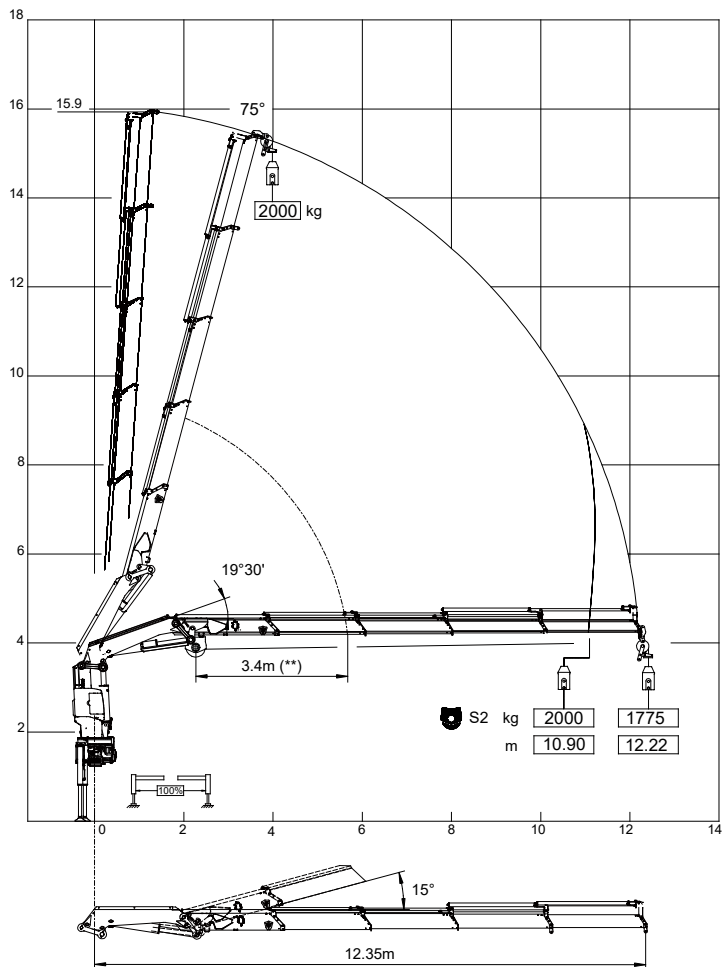
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE VR26NG 4S + T12 SINGLE LINE



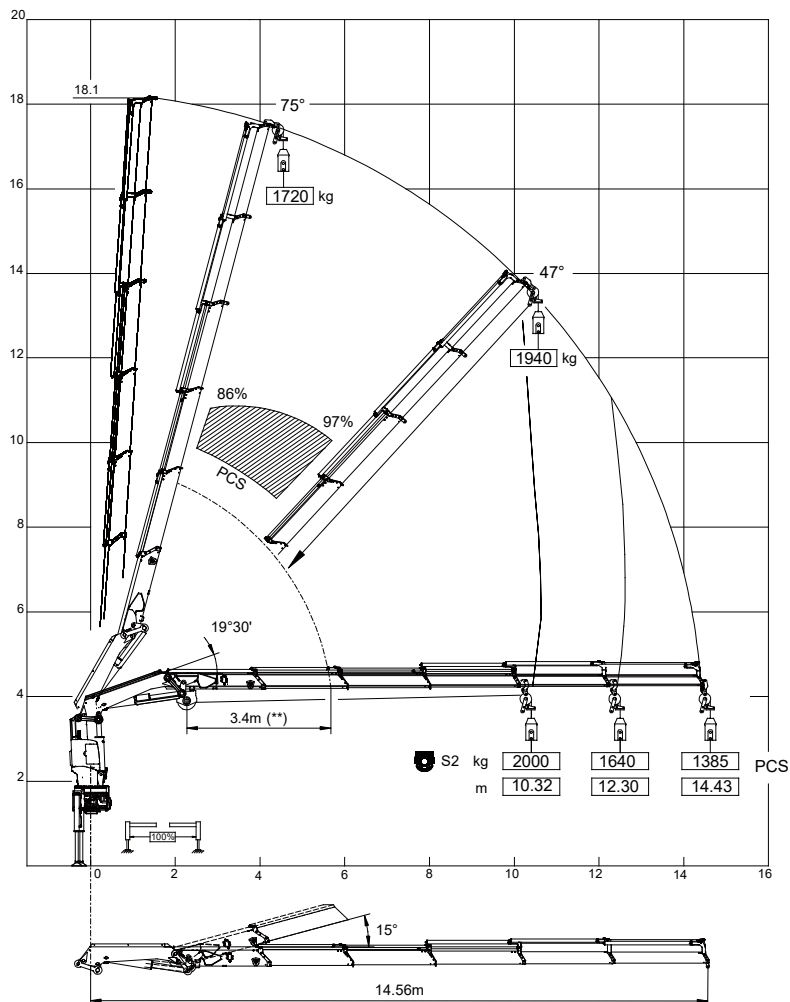
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE VR26NG 5S + T12 SINGLE LINE



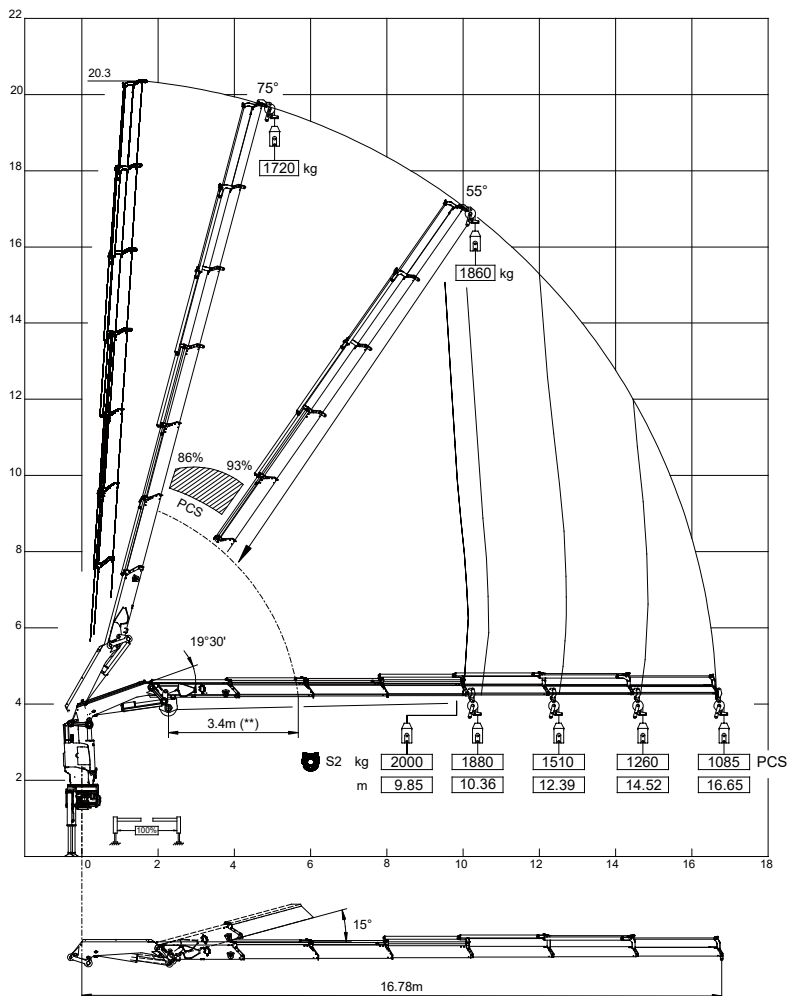
(**) Minimum distance winch - pulley
Winch max. pull with PCS: 2000 kg
PCS: Pull Control System, present on CE/TOP cranes

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LOAD CHART FOR WINCH T12 IN SINGLE LINE VR26NG 6S + T12 SINGLE LINE



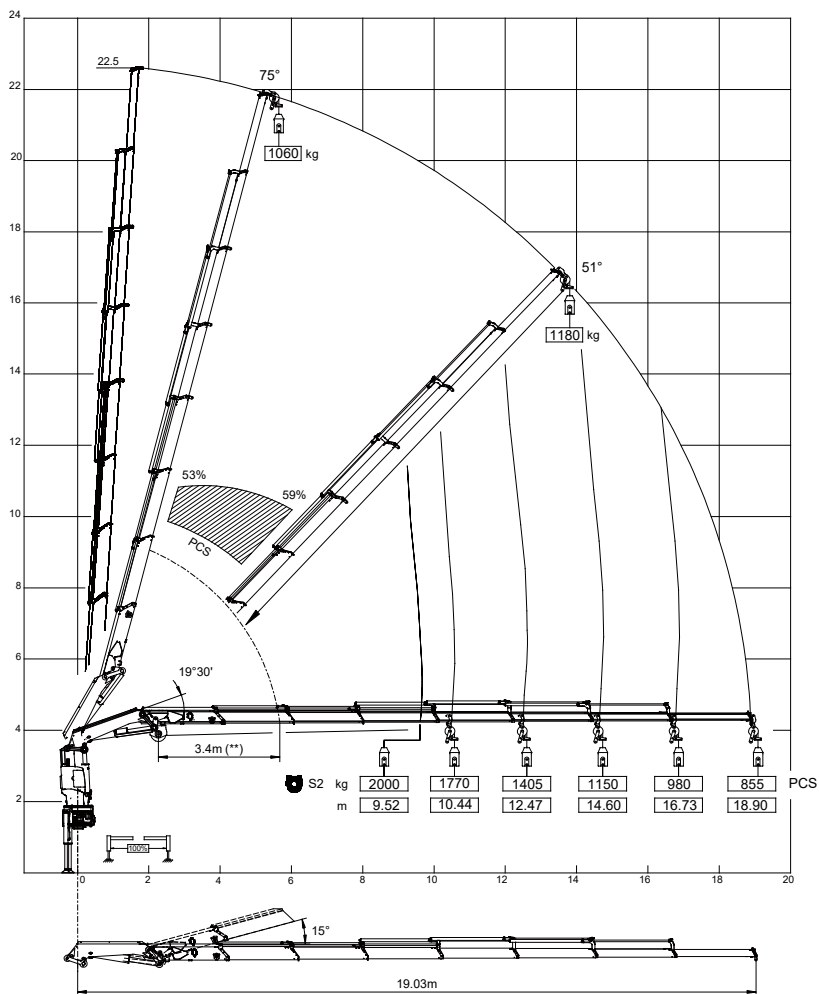
(**) Minimum distance winch - pulley
Winch max. pull with PCS: 2000 kg
PCS: Pull Control System, present on CE/TOP cranes

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LOAD CHART FOR WINCH T12 IN SINGLE LINE VR26NG 7S + T12 SINGLE LINE



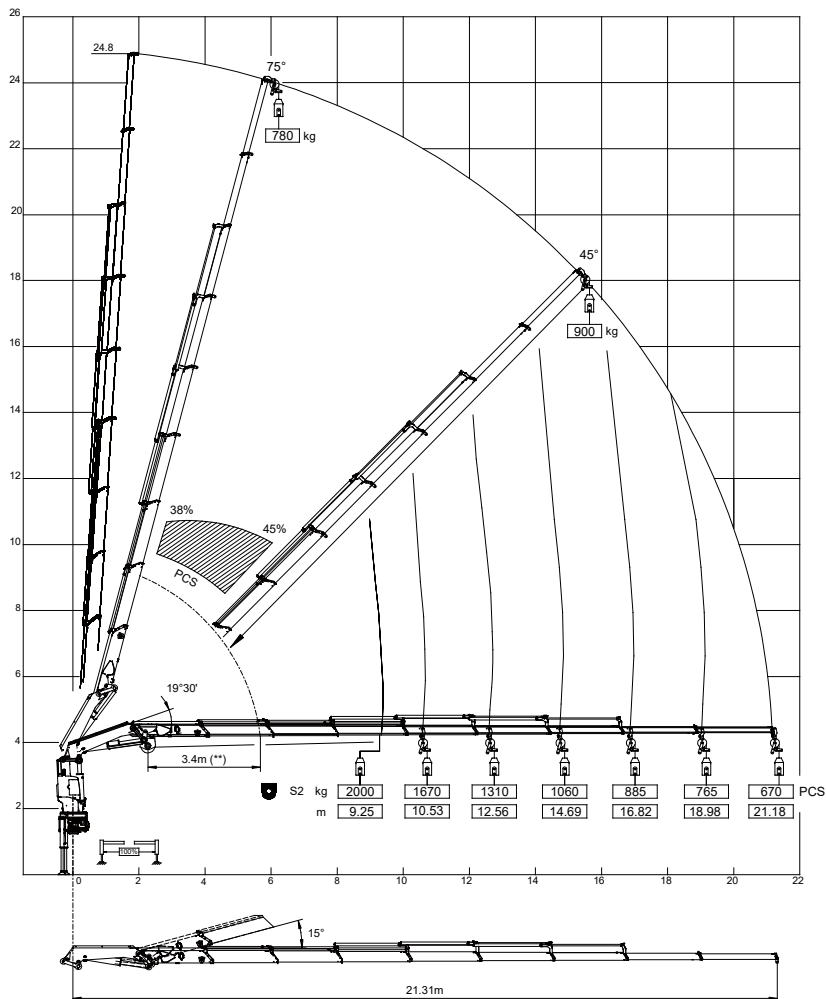
(**) Minimum distance winch - pulley
Winch max. pull with PCS: 2000 kg
PCS: Pull Control System, present on CE/TOP cranes

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LOAD CHART FOR WINCH T12 IN SINGLE LINE VR26NG 8S + T12 SINGLE LINE



(**) Minimum distance winch - pulley
Winch max. pull with PCS: 2000 kg
PCS: Pull Control System, present on CE/TOP cranes

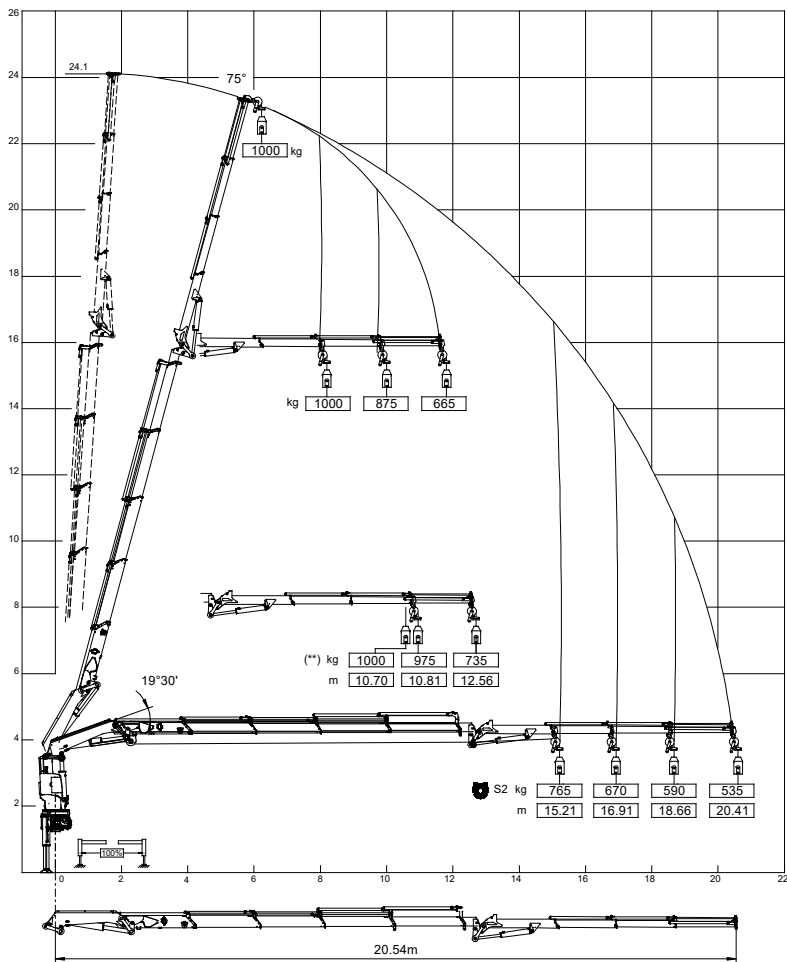
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D.10 LOAD CHARTS FOR T11 WINCH IN SINGLE LINE

VR26NG 4SJ3 + T11 SINGLE LINE



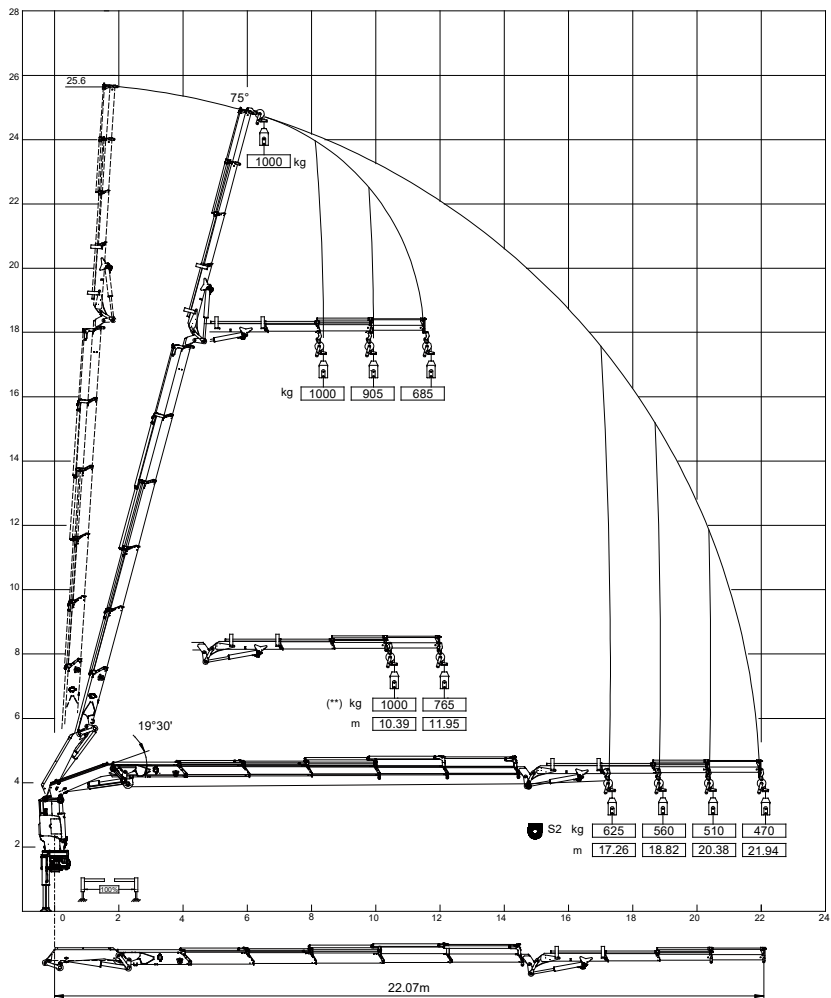
(**) Max. lifting capacity of jib
Winch max. pull: 1000 kg

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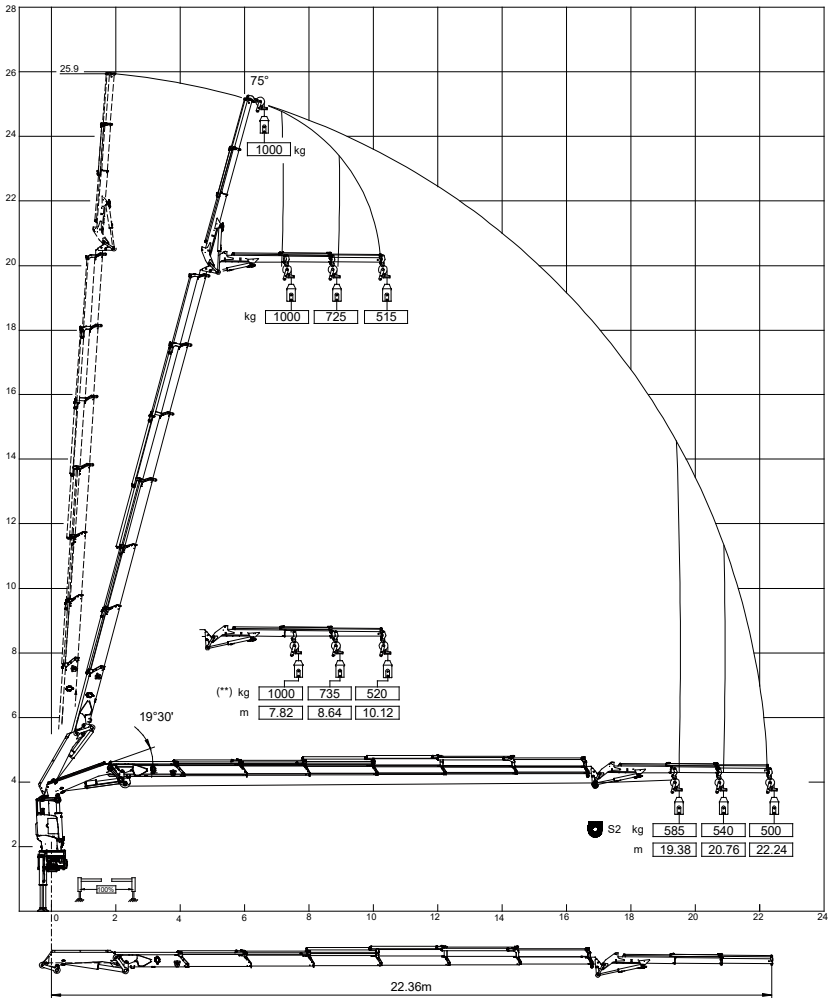
LOAD CHART FOR WINCH T1 IN SINGLE LINE VR26NG 5SJ3 + T1 SINGLE LINE



(**) Max. lifting capacity of jib
Winch max. pull: 1000 kg

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LOAD CHART FOR WINCH T1 IN SINGLE LINE
VR26NG 6SJ2 + T1 SINGLE LINE



(**) Max. lifting capacity of jib
Winch max. pull: 1000 kg

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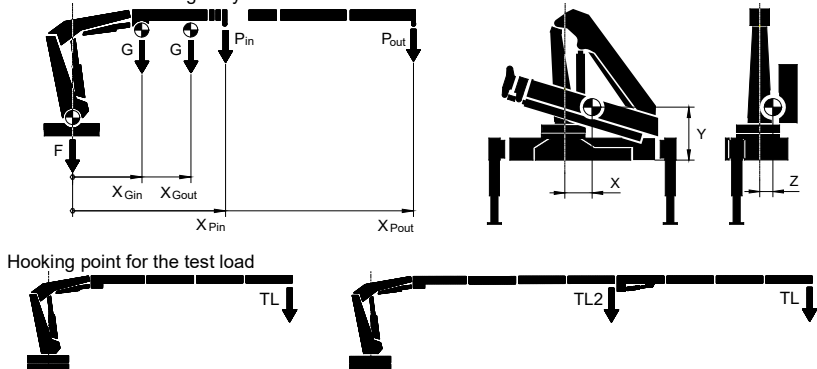
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D.11 CENTERS OF GRAVITY AND TEST LOADS

This annex contains the data needed for the stability test in accordance with EN 12999.

Loads and centers of gravity



Key:

F = weight of fixed parts (stabilizers, base, column, 1st boom cylinder)

G = weight of booms

X_G = distance between G and column axis

P = rated capacity

X_P = distance between P and column axis

TL = test load, to be hooked to the last hydraulic extension

TL2 - #S = additional test load, to be hooked to the hydraulic extension indicated in the table below

X, Y, Z = coordinates of center of gravity for whole crane folded in transport position (EX-H version)

in = configuration with all hydraulic extensions fully retracted

out = configuration with all hydraulic extensions fully extracted

WEIGHTS AND CENTERS OF GRAVITY

VR26NG	F kg	G kg	X_G in / out m	P in / out kg	X_P in / out m	TL (TL2 - #S) kg	X	Y	Z
2S	EX-H : 1725 SE-H : 1880	1090	2.05 2.89	5795 3015	4.28 8.08	3769	279	820	7
3S		1230	2.17 3.51	5680 2300	4.28 10.11	2875	277	834	26
4S		1370	2.28 4.30	5455 1775	4.36 12.22	2226	269	848	44
5S		1495	2.38 5.09	5260 1385	4.44 14.43	1767	260	861	56
6S		1600	2.46 5.88	5070 1085	4.53 16.65	1415	257	871	63
7S		1720	2.52 6.63	4910 855	4.61 18.90	1069 (118 - 4S)	243	890	78
8S		1810	2.58 7.29	4755 670	4.70 21.18	838 (154 - 4S)	236	904	88
4SJ3		2030	9.13 9.39	855 595	15.21 20.41	744 (262 - 4S)	228	1055	108
5SJ3		1985	9.38 9.56	695 525	17.26 21.94	656 (223 - 5S)	229	1018	106
6SJ2		1875	9.13 9.17	650 560	19.38 22.24	700 (169 - 6S)	236	961	93

The data are relating to crane configuration with horizontal booms.

For the jib version, the "in" data are relating to standard crane's extensions always fully extracted.

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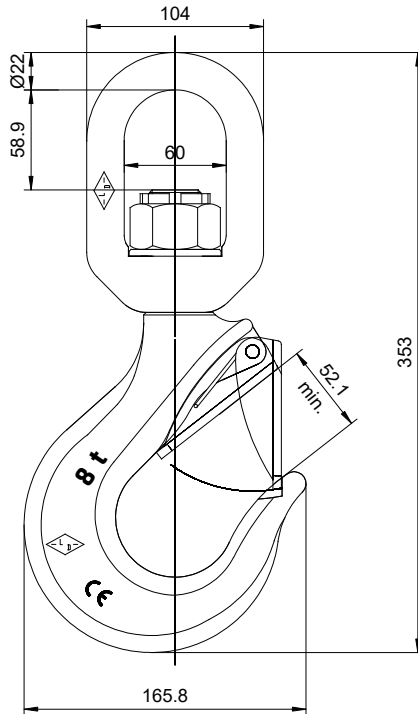
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D.12 HOOK DATA

HOOK MOUNTED ON STANDARD BOOM
VERSIONS: 2S, 3S, 4S, 5S, 6S, 7S, 8S

DIMENSIONS



TECHNICAL PROPERTIES

Working load limit (WLL) : 8000 kg

Material: alloy steel

Weight: 6.2 kg

Swivel hook

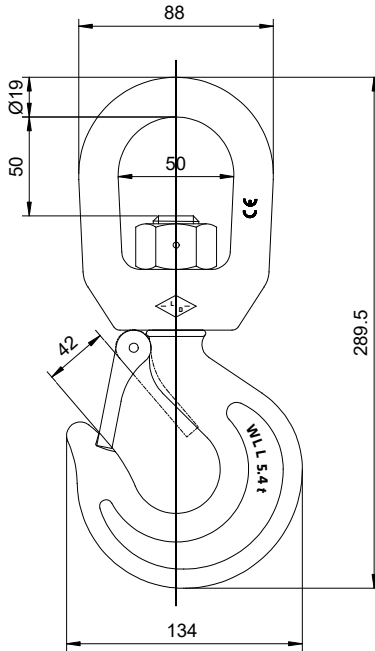
Reference standard: DIN 15401

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HOOK DATA

VERSION: 4SJ3, 5SJ3, 6SJ2

DIMENSIONS



TECHNICAL PROPERTIES

Working load limit (WLL) : 5400 kg

Material: alloy steel

Weight: 3.2 kg

Swivel hook

Reference standard: DIN 15401

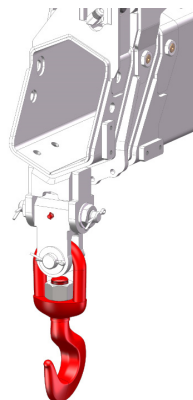
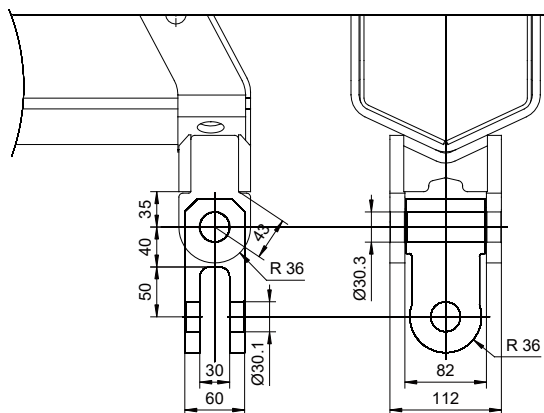
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D.13 LOAD ATTACHMENT

ATTACHMENT FOR HOOK AND LIFTING TOOL



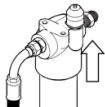
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D.14 HYDRAULIC SYSTEM

FITTINGS FOR CONNECTION TO PUMP

VR26NG	RDC	
Control valve pressure line		M 3/4"-16 GAS
Tank suction line		M 1" 1/2 BSP

EXTENSION TIMES OF HYDRAULIC CYLINDERS

VR26NG	Extension time s	Retraction time s
Slewing with 1 gear motor (180°)	30	30
Slewing with 2 gear motors (180°)	44	44
1.boom cylinder	N/A	N/A
2.boom cylinder	N/A	N/A
boom extension 1S (SGS active)	N/A	N/A
boom extension 2S (SGS active)	N/A	N/A
boom extension 3S (SGS active)	N/A	N/A
boom extension 4S (SGS active)	N/A	N/A
boom extension 5S (SGS active)	N/A	N/A
boom extension 6S (SGS active)	N/A	N/A
boom extension 7S (SGS active)	N/A	N/A
boom extension 8S (SGS active)	N/A	N/A
jib articulation cylinder	N/A	N/A
jib extension 3S	N/A	N/A
jib extension 2S	N/A	N/A

Times are indicative and referring to the following operating conditions:

- unloaded crane operated with a single control lever
- oil flow rate recommended for RDC crane
- ISO VG 46 oil at a temperature of 50°C

MAX. ALLOWABLE SINK RATE FOR THE LOAD

The sink rate is the uncontrolled descent of the load in a given time interval due to internal leakage of hydraulic components. The table below shows the maximum permitted descent of the rated load, at the max. hydraulic outreach and in the given time interval.

VR26NG	Time interval min.	Max. load descent mm
2S	10	404
3S	10	506
4S	10	244
5S	10	289
6S	10	333
7S	10	378
8S	10	424
4SJ3	10	408
5SJ3	10	439
6SJ2	10	445

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CAPACITY OF HYDRAULIC SYSTEM

VR26NG	Cylinders extended ℓ	Cylinders retracted ℓ
2S	74	47
3S	82	52
4S	90	56
5S	98	62
6S	106	67
7S	115	74
8S	123	81
4SJ3	106	66
5SJ3	107	72
6SJ2	116	73

Capacities do not include the oil tank.

ADDITIONAL CAPACITY FOR HYDRAULICALLY OPERATED STABILIZER EXTENSIONS

EX-H	+4.0	+2.5
SE-H	+6.5	+3.5

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D.15 OIL COOLER



TECHNICAL SPECIFICATIONS

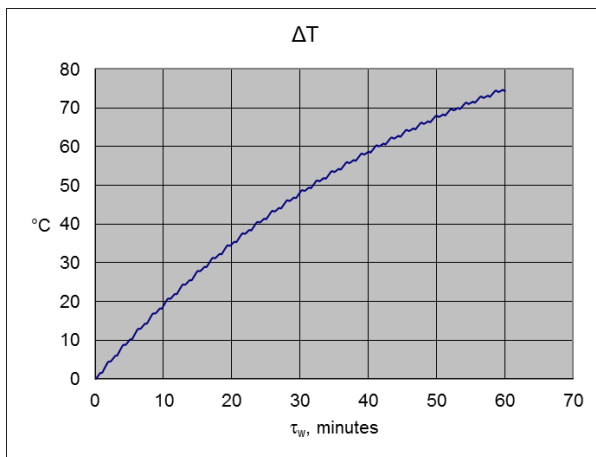
Heat transfer coefficient: 235 W/K (oil flow rate of 40 l/min)

Activation temperature: 48 °C

Weight: 13.5 kg

Capacity: 4 l

For a crane without oil cooler performing a sequence of standard work cycles, the difference in temperature between the oil and the environment is shown in the graph below.



The oil cooler is recommended when

$$T_{env} + \tau_w > 57$$

where:

T_{env} : temperature of the environment (°C)

ΔT : difference in temperature between the oil and the environment (°C)

τ_w : working time (minutes)

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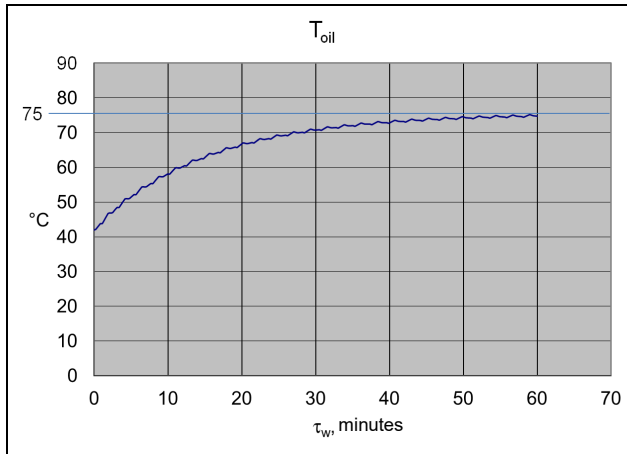
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However, when a crane equipped with oil cooler carries out a sequence of standard work cycles, the oil temperature exceeds 75 °C after the following working times:

T_{env} (°C)	τ_w to exceed 75 °C (minutes)
42	no limit
45	35
48	25
50	21
52	18
54	15

The graph below shows the temperature trend (T_{oil}) with oil cooler when $T_{env} = 45$ °C.



Notes:

The max recommended oil temperature is 75°C (at 80°C you must stop working)

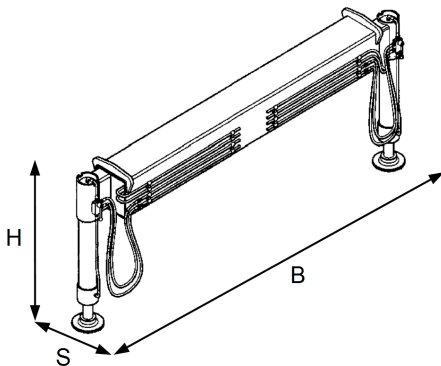
The calculation of the oil temperature is purely indicative and depending on several variables (e.g. working cycle, wind, humidity, weather, etc.)

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D.16 ADDITIONAL STABILIZERS



Additional stabilizers must be chosen so that:

- the installation is stable (see Installer Manual)
- the max. force acting on the additional stabilizers, F_s , is lower than the max. load allowed by the stabilizers itself, R_{max} .

$$F_s = M_{dyn} / X_s \quad F_s \geq 0.6 F_{sg}$$

where:

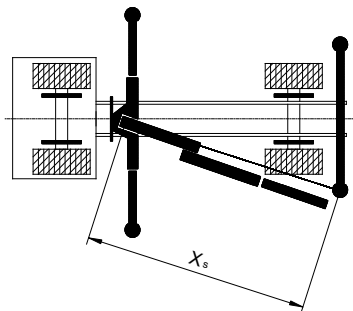
M_{dyn} : max. dynamic moment of the crane

X_s : distance between column axis - stab. cylinder

F_{sg} : max force on stabilizer leg

Check that: $F_s \leq R_{max}$

R_{max} is given in the technical specifications of the additional stabilizers.



- In addition, CE additional stabilizer must be equipped with safety devices integrated with the crane's stability control system. Therefore we recommend to install the following models designed by the crane's manufacturer:

Code	Spread (m)	Weight (kg)	R_{max} (kg)	Overall dimensions BxHxS (mm)
7850111	3.33	270	8200	2334x930x220
7850112	3.33	260	8200	2334x840x220
7850113	4.74	390	8250	2346x930x400
7850120	4.74	380	8250	2346x840x400
7850102	5.02	570	12700	2420x1095x430
7850099	5.02	540	12700	2420x970x430

For further information see the User Manual for outriggers.

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D.17 RECOMMENDED ADDITIONAL LIFTING TOOLS

CLAMSHELL BUCKET



Crane version	Gross load kg ⁽¹⁾	Data of recommended tool				Payload kg ⁽³⁾	Load ratio	
		HYVA model	weight kg	volume dm ³	capacity kg ⁽²⁾		crane ⁽⁴⁾	tool ⁽⁵⁾
2S	3015	H605-650	410	650	975	2605	46%	100%
3S	2300	H605-650	410	650	975	1890	60%	100%
4S	1775	H605-650	410	650	975	1365	78%	100%
5S	1385	H605-450	340	450	675	1045	73%	100%
6S	1085	H604-250	220	250	375	865	55%	100%
7S	855	H604-200	195	200	300	660	58%	100%
8S	670	H604-200	195	200	300	475	74%	100%

Notes

- ⁽¹⁾ The gross load is the load capacity of crane at maximum hydraulic outreach
- ⁽²⁾ The tool's load capacity is calculated multiplying the volume by a density of 1.5 kg/dm³
- ⁽³⁾ The payload is the gross load of crane minus the tool's weight
- ⁽⁴⁾ The crane's load ratio is the percentage value of the liftable load with respect to the gross load
- ⁽⁵⁾ The tool's load ratio is the percentage value of the liftable load with respect to tool's capacity

Stress history class: S1

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RECOMMENDED ADDITIONAL LIFTING TOOLS ORANGE PEEL GRAPPLE



Crane version	Gross load kg ⁽¹⁾	Data of recommended tool				Payload kg ⁽³⁾	Load ratio	
		HYVA model	weight kg	volume dm ³	capacity kg ⁽²⁾		crane ⁽⁴⁾	tool ⁽⁵⁾
2S	3015	H653-4 large	435	500	750	2580	39%	100%
3S	2300	H653-4 large	435	500	750	1865	52%	100%
4S	1775	H653-4 large	435	500	750	1340	67%	100%
5S	1385	H653-4 large	395	350	525	990	66%	100%
6S	1085	H653-4 small	235	180	270	850	47%	100%
7S	855	H653-4 small	235	180	270	620	59%	100%
8S	670	H653-4 small	235	180	270	435	75%	100%

Notes

⁽¹⁾ The gross load is the load capacity of crane at maximum hydraulic outreach

⁽²⁾ The tool's load capacity is calculated multiplying the volume by a density of 1.5 kg/dm³

⁽³⁾ The payload is the crane's gross load minus the tool's weight

⁽⁴⁾ The crane's load ratio is the percentage value of the liftable load with respect to the gross load

⁽⁵⁾ The tool's load ratio is the percentage value of the liftable load with respect to tool's capacity

Stress history class: S1

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RECOMMENDED ADDITIONAL LIFTING TOOLS
LOGGING GRAPPLE



Crane version	Gross load kg ⁽¹⁾	Data of recommended tool			Payload kg ⁽²⁾	Load ratio	
		HYVA model	weight kg	capacity kg		crane ⁽³⁾	tool ⁽⁴⁾
2S	3015	H634-0,25	170	4000	2845	100%	71%
3S	2300	H634-0,25	170	4000	2130	100%	53%
4S	1775	H634-0,25	170	4000	1605	100%	40%
5S	1385	H634-0,25	170	4000	1215	100%	30%
6S	1085	H634-0,25	170	4000	915	100%	23%
7S	855	H634-0,25	170	4000	685	100%	17%
8S	670	H634-0,25	170	4000	500	100%	13%

Notes

- ⁽¹⁾ The gross load is the load capacity of crane at maximum hydraulic outreach
- ⁽²⁾ The payload is the gross load of crane minus the tool's weight
- ⁽³⁾ The crane's load ratio is the percentage value of the liftable load with respect to the gross load
- ⁽⁴⁾ The tool's load ratio is the percentage value of the liftable load with respect to tool's capacity

Stress history class: S1

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RECOMMENDED ADDITIONAL LIFTING TOOLS BRICK STACK GRAPPLE



Crane version	Gross load kg ⁽¹⁾	Data of recommended tool			Payload kg ⁽²⁾	Load ratio	
		HYVA model	weight kg	capacity kg		crane ⁽³⁾	tool ⁽⁴⁾
2S	3015	H332-850	245	2200	2770	81%	100%
3S	2300	H332-1000	265	1600	2035	81%	100%
4S	1775	H332-1000	265	1600	1510	100%	94%
5S	1385	H332-1000	265	1600	1120	100%	70%
6S	1085	H332-1000	265	1600	820	100%	51%
7S	855	H332-1000	265	1600	590	100%	37%
8S	670	H332-1000	265	1600	405	100%	25%

Notes

⁽¹⁾ The gross load is the load capacity of crane at maximum hydraulic outreach

⁽²⁾ The payload is the gross load of crane minus the tool's weight

⁽³⁾ The crane's load ratio is the percentage value of the liftable load with respect to the gross load

⁽⁴⁾ The tool's load ratio is the percentage value of the liftable load with respect to tool's capacity

Stress history class: S2

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RECOMMENDED ADDITIONAL LIFTING TOOLS PALLET FORK



Crane version	Gross load kg ⁽¹⁾	Data of recommended tool			Payload kg ⁽²⁾	Load ratio	
		HYVA model	weight kg	capacity kg		crane ⁽³⁾	tool ⁽⁴⁾
2S	3015	H415-2000 500	155	2000	2860	71%	100%
3S	2300	H415-1500 500	135	1500	2165	71%	100%
4S	1775	H415-1500 500	135	1500	1640	92%	100%
5S	1385	H415-1500 500	135	1500	1250	100%	83%
6S	1085	H415-1500 500	135	1500	950	100%	63%
7S	855	H415-1500 500	135	1500	720	100%	48%
8S	670	H415-1500 500	135	1500	535	100%	36%

Notes

⁽¹⁾ The gross load is the load capacity of crane at maximum hydraulic outreach

⁽²⁾ The payload is the gross load of crane minus the tool's weight

⁽³⁾ The crane's load ratio is the percentage value of the liftable load with respect to the gross load

⁽⁴⁾ The tool's load ratio is the percentage value of the liftable load with respect to tool's capacity

Stress history class: S2