

USER MANUAL
921NG
TECHNICAL SHEET

D TECHNICAL SHEET



USER MANUAL

921NG

TECHNICAL SHEET

D.1 CRANE'S TECHNICAL DATA

Versions			2S	3S	4S	5S	6S	3SJ3	4SJ3	5SJ2
Max. net lifting moment		$t\ m$ kNm	19.8 194	18.7 184	18.2 178	17.6 173	17.2 169	15.0 147	14.9 146	9.1 89
Max. dynamic moment		$daNm$ kNm	24960 249.6					24690 246.9		24590 245.9
Capacity at min. hydraulic outreach	hook [S2]	 kg	4555	4310	4100	3900	3745	2050	2035	1000
Max rated capacity	grab [S1]	 kg	4555	4310	4100	3900	3745	N/A	N/A	N/A
	min.outreach	 m	4.35	4.35	4.43	4.51	4.60	7.35	7.35	7.20
Capacity at max. hydraulic outreach	hook [S2]	 kg	2325	1670	1255	945	730	465	410	380
	grab [S1]	 kg	2325	1670	1255	945	730	N/A	N/A	N/A
	max.outreach	 m	8.29	10.36	12.51	14.72	17.01	18.56	20.11	20.27
Capacity of 1st man. extension	capacity	 kg	N/A	1115	940	725	600	390	355	275
	max.outreach	 m	N/A	12.51	14.72	17.01	19.11	20.43	21.77	21.83
Max. load height above the base for the last extension	hydraulic	 m	10.6	12.7	14.8	17.0	19.3	20.9	22.4	22.6
	manual	 m	N/A	19.3	21.4	21.4	21.4	24.6	25.8	24.1
Weight of crane without stabilizers	 kg		2210	2360	2510	2630	2725	3020	3000	2905
Weight of stabilizers	ST-M	 kg	265							
	EX-H	 kg	370							
	SE-H	 kg	500							
Weight of 1st man. extension	 kg		N/A	90	67	48	41	35	30	22
Max. working pressure	 bar		320		310			N/A		N/A
Max. oil flow rate	 l/min		45							
	 l/min		70							
Max. power needed	 kW		31.2		30.2			N/A		N/A
	 kW		48.5		47.0			N/A		N/A
Oil tank capacity	 l		130							
Slewing angle	 $^{\circ}$		415 $^{\circ}$							
Gross slewing torque	 $daNm$ kNm		2600 26.0					N/A		N/A
Max. base inclination	 $^{\circ}$		4 $^{\circ}$					3 $^{\circ}$		
	 $^{\circ}$		3 $^{\circ}$					N/A		
Max boom inclination for use with CE winch	$^{\circ}$		75 $^{\circ}$							
Max. stabilizer force on the ground with stabilizers fully extended	ST	 daN	10950					10830		10785
	EX	 daN	9600					9500		9460
	SE	 daN	7015					6935		6910
Max. stabilizer pressure on the ground with stabilizers fully extended	ST	 MPa	2.88					2.85		2.84
	EX	 MPa	2.53					2.50		2.49
	SE	 MPa	1.84					1.82		1.82
Lifting conversion factor, k	kgm/bar		75.66							
Distribution factor of dyn. moment on base, β	-		0.70							
Position of standard dead point (see D.6)										

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921NG

TECHNICAL SHEET

D.2 WINCH SETTINGS

T11 - SINGLE LINE PULL

Versions	2S	3S	4S	5S	6S	3SJ3	4SJ3	5SJ2
 Max line pull <i>kg</i>	N/A	N/A	N/A	N/A	N/A	1000	1000	900
Start angle - pull% Final angle - pull% 	-	-	-	-	-	-	-	-

T12 - SINGLE LINE PULL

Versions	2S	3S	4S	5S	6S	3SJ3	4SJ3	5SJ2
 Max line pull <i>kg</i>	2000	2000	2000	2000 (*)	2000 (*)	N/A	N/A	N/A
Start angle - pull% Final angle - pull% 	-	-	-	60°-89% 75°-85%	51°-59% 75°-53%	-	-	-

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	3SJ3	4SJ3	5SJ2
ST-M	2475	2625	2775	2895	2990	3285	3265	3170
EX-H	2580	2730	2880	3000	3095	3390	3370	3275
SE-H	2710	2860	3010	3130	3225	3520	3500	3405

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

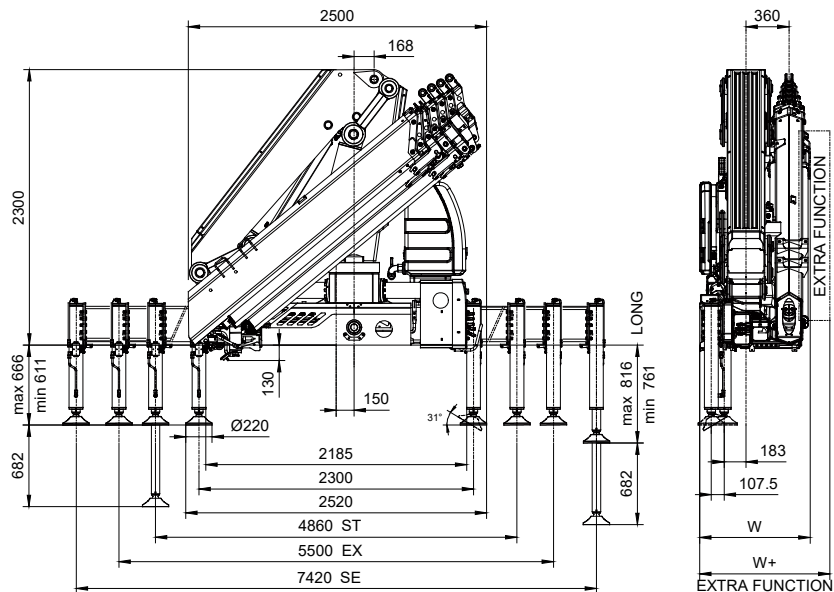
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921NG

TECHNICAL SHEET

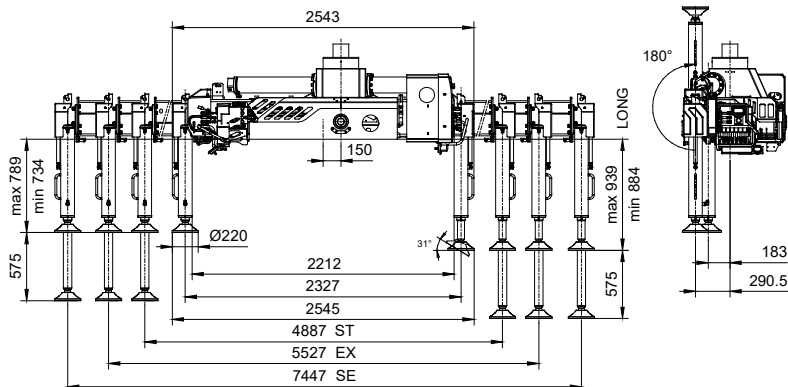
D.4 OVERALL DIMENSIONS

FIXED STABILIZERS LEGS



	2S	3S	4S	5S	6S
W (mm)	930	930	930	930	930
W+ (mm)	slides	1050	1050	1050	1050
	hose reel	N/A	N/A	1120	1120

TURNING STABILIZERS LEGS

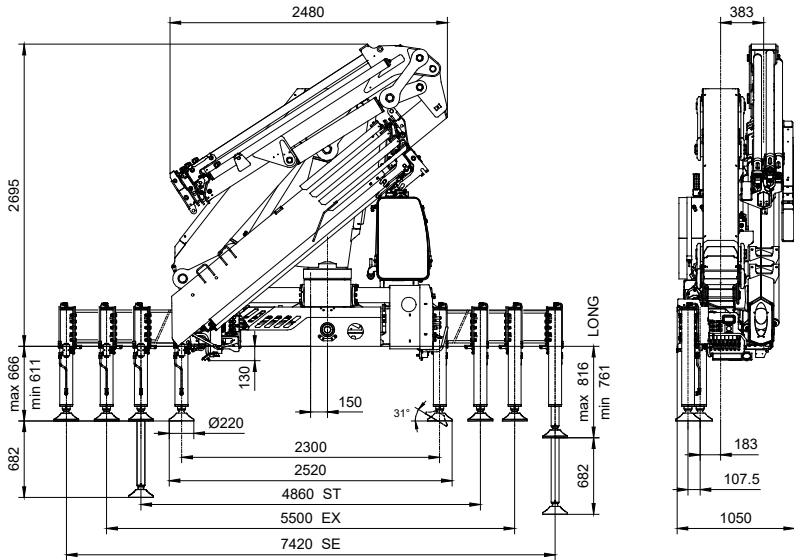


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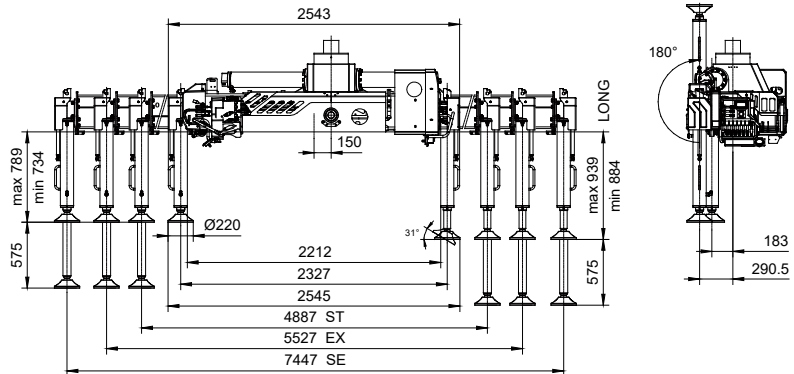
OVERALL DIMENSIONS

3SJ3

FIXED STABILIZERS LEGS



TURNING STABILIZERS LEGS



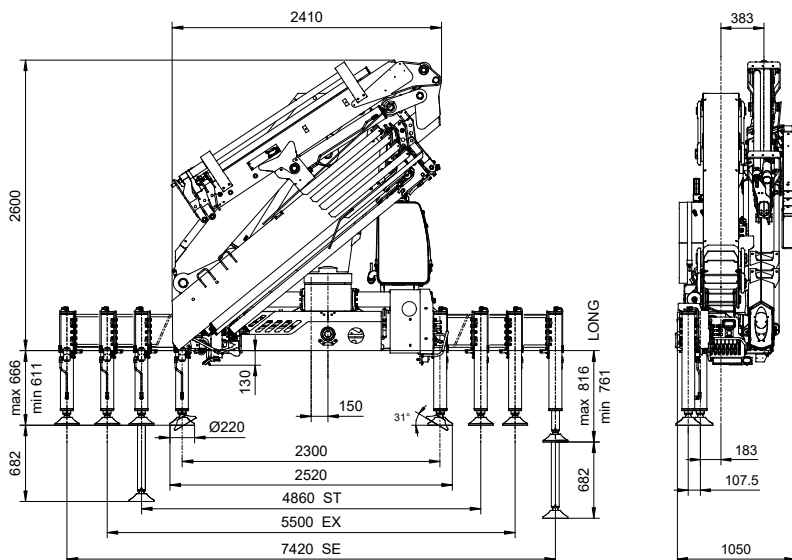
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921NG

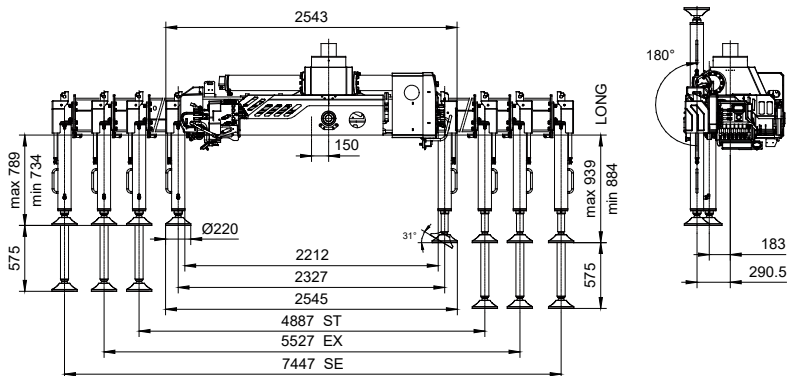
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OVERALL DIMENSIONS 4SJ3

FIXED STABILIZERS LEGS



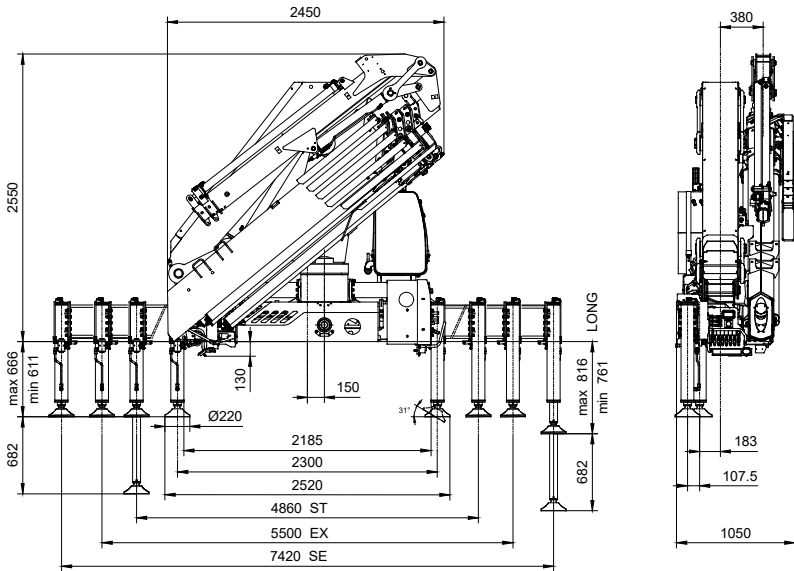
TURNING STABILIZERS LEGS



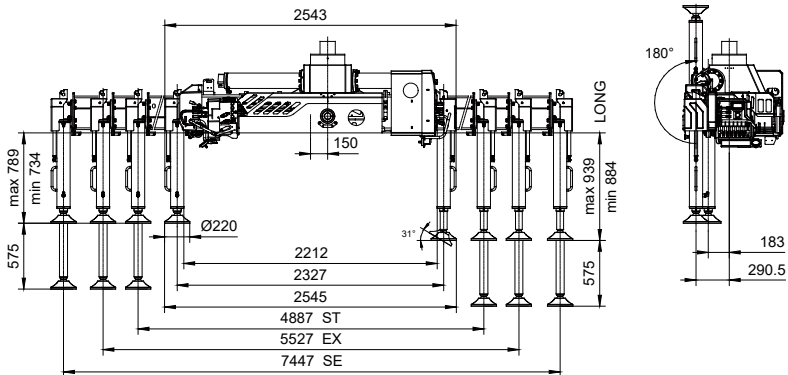
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5SJ2

FIXED STABILIZERS LEGS

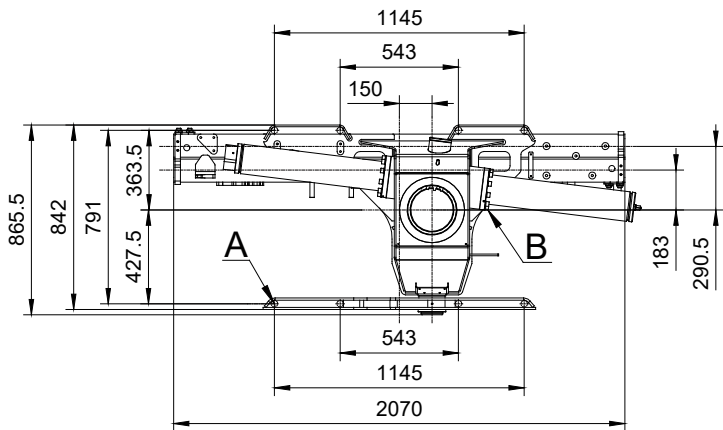


TURNING STABILIZERS LEGS



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921NG
TECHNICAL SHEET

D.5 BASE DIMENSIONS AND MOUNTING BOLTS

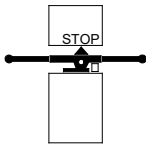
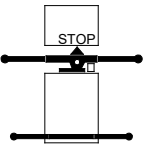
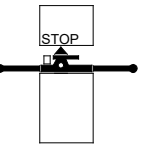
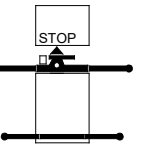
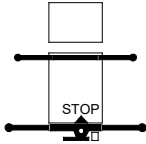
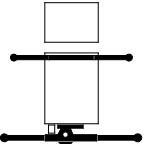
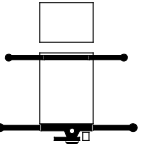
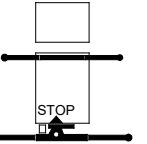
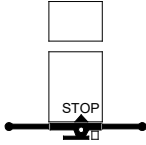
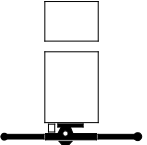
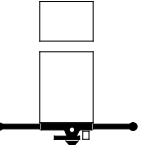
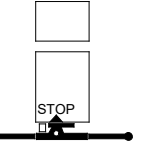
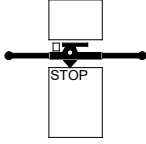
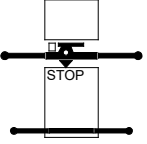
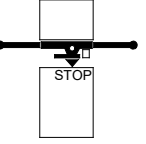
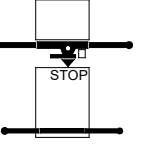


Ref.	Description	Q.ty	Material Grade	Size (Q.ty)	Tightening torque
A	Kit with 8 crane mounting bolts	8	42CrMo4+QT EN 10083-3	M24x2 L=1100 (4) L=1015 (4)	400 Nm
	Kit with 4 crane mounting bolts	4	42CrMo4+QT EN 10083-3	M30x2 L=1000 (2) L=1100 (2)	700 Nm
B	Fixing bolts for each slewing cylinder	10	8.8	M14x2 L=75	80 Nm

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921NG
TECHNICAL SHEET

D.6 INSTALLATION TYPE NUMBER

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

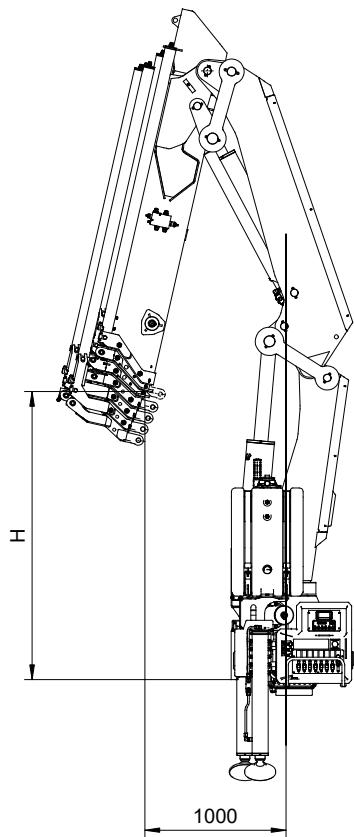
OPPOSITE DEAD POINT		STANDARD DEAD POINT	
1 	2 	3 	4 
5 	6 	7 	8 
9 	10 	11 	12 
13 	14 	15 	16 

Legend:

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

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TECHNICAL SHEET

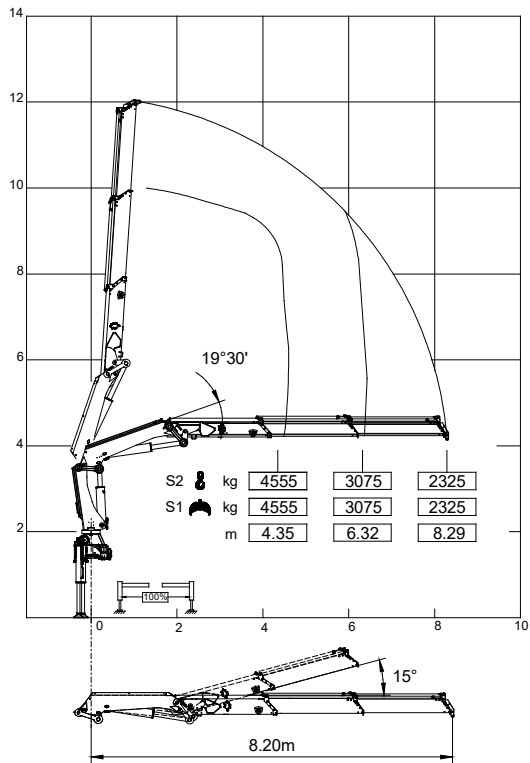
D.7 LIFTING HEIGHT CLOSE TO THE COLUMN



Version	H mm
2S	2189
3S	1946
4S	1861
5S	1777
6S	1700

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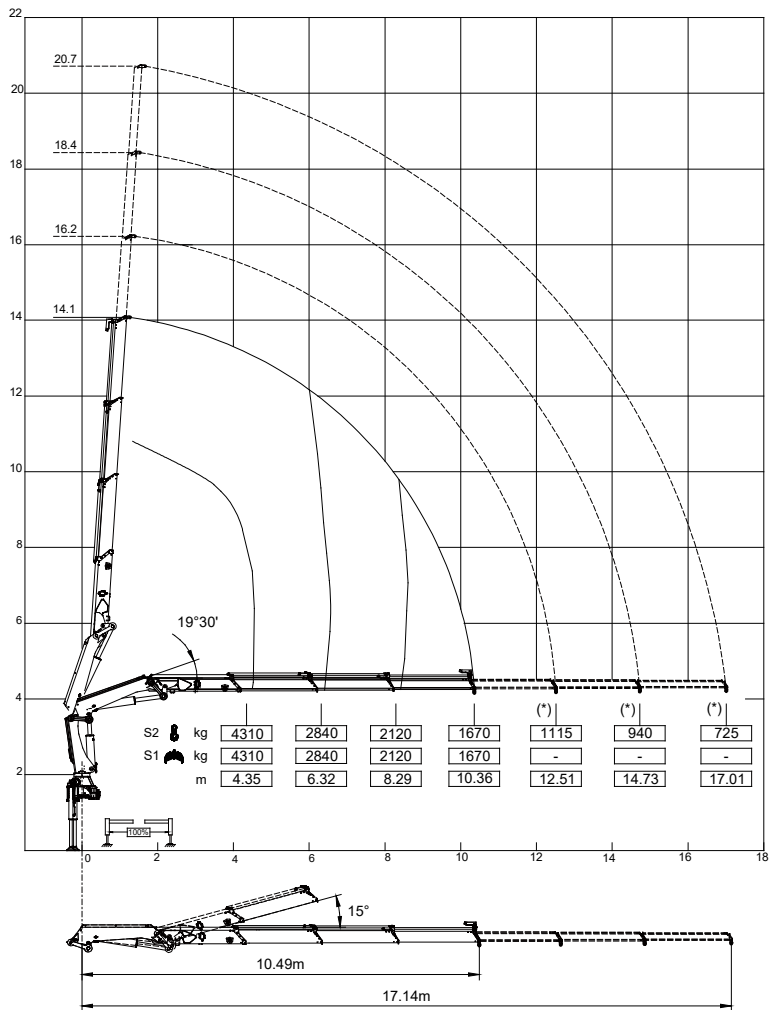
D.8 LOAD CHARTS FOR USE WITH HOOK/TOOL
921NG 2S



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

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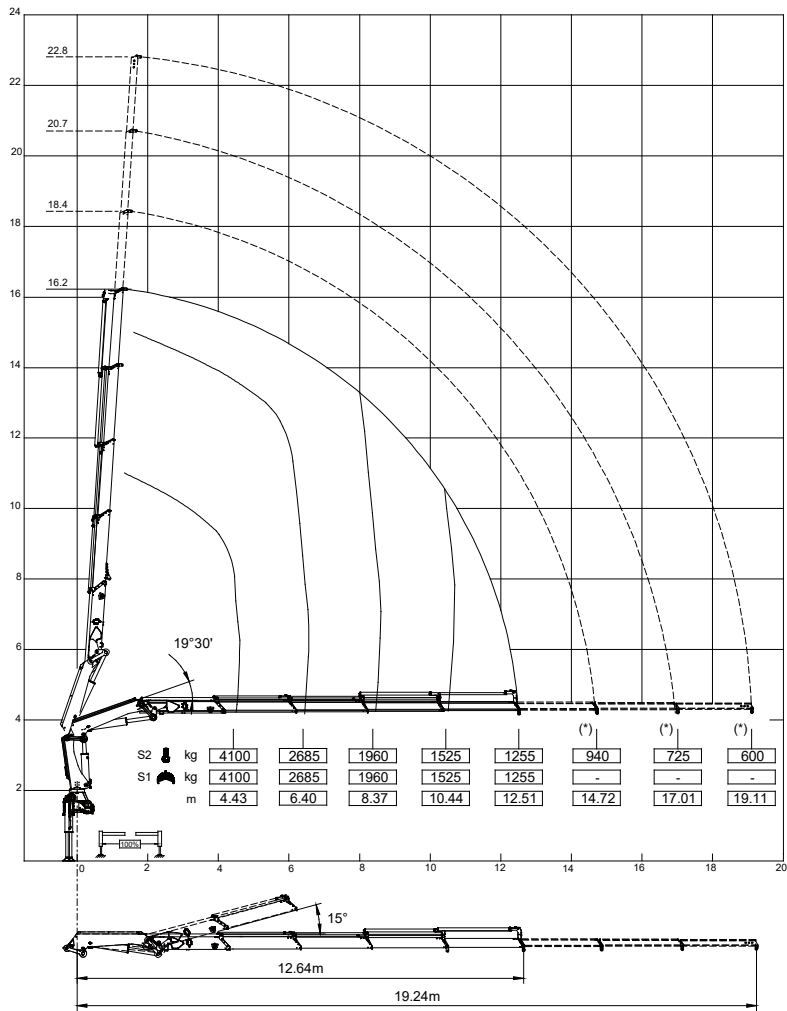
LOAD CHART FOR USE WITH HOOK/TOOL
921NG 3S



(*) 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 CHART FOR USE WITH HOOK/TOOL
921NG 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

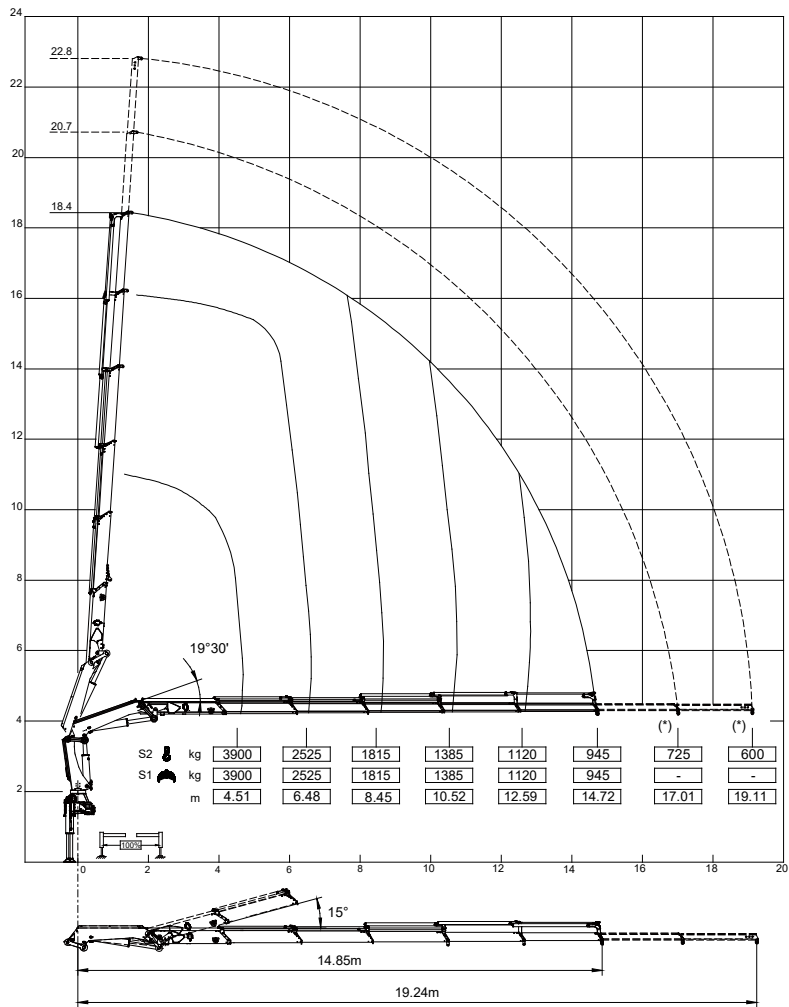
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921NG

TECHNICAL SHEET

LOAD CHART FOR USE WITH HOOK/TOOL

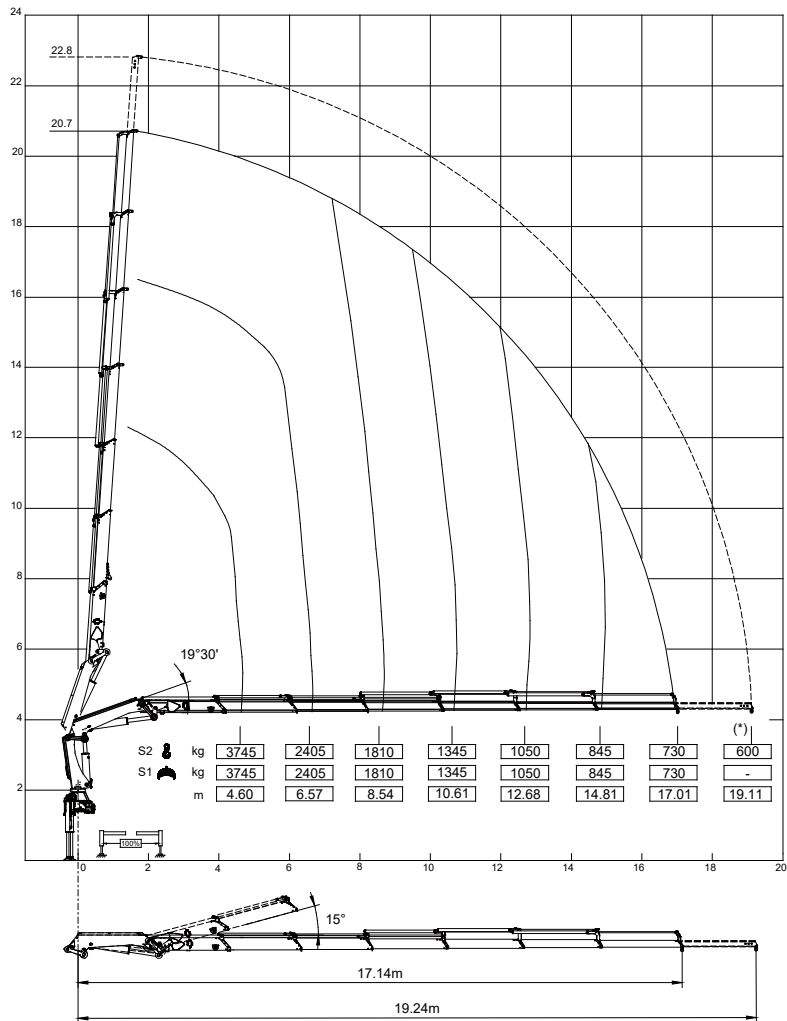
921NG 5S



(*) 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 CHART FOR USE WITH HOOK/TOOL
921NG 6S



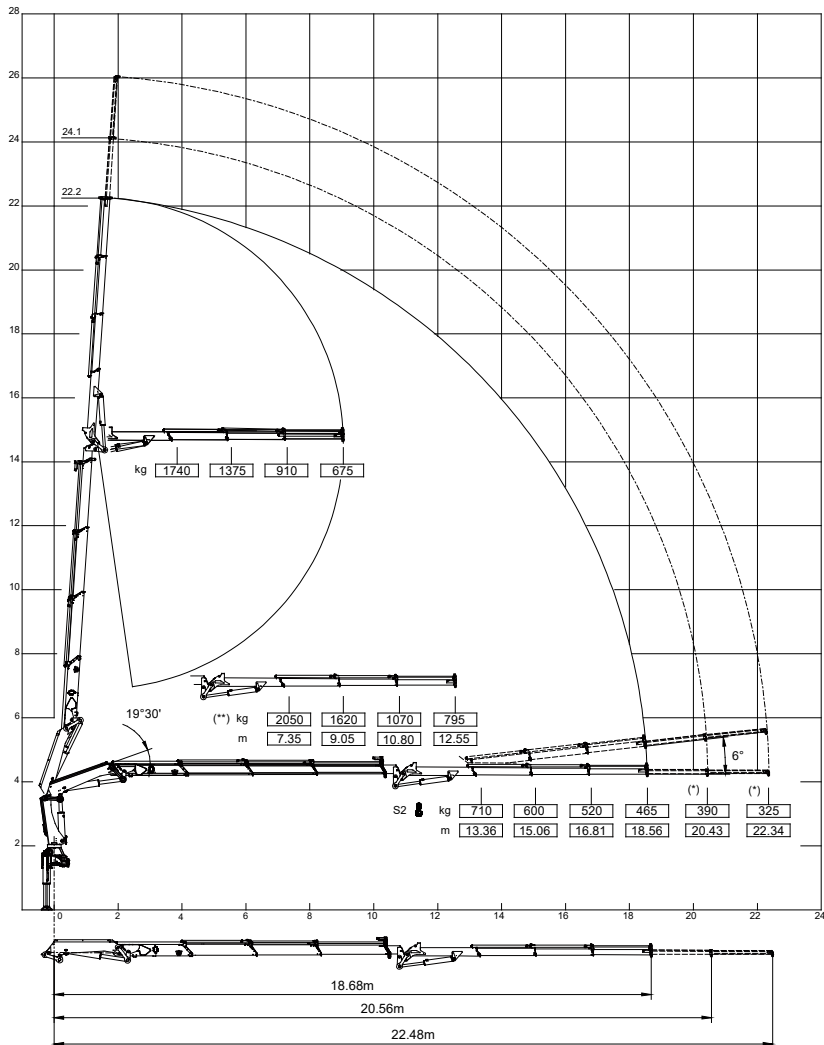
(*) Manual extension (optional): this cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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921NG

TECHNICAL SHEET

LOAD CHART FOR USE WITH HOOK 921NG 3SJ3



(*) Manual extension (optional): this cannot lift additional hydraulic tools

(**) Max. lifting capacity of jib

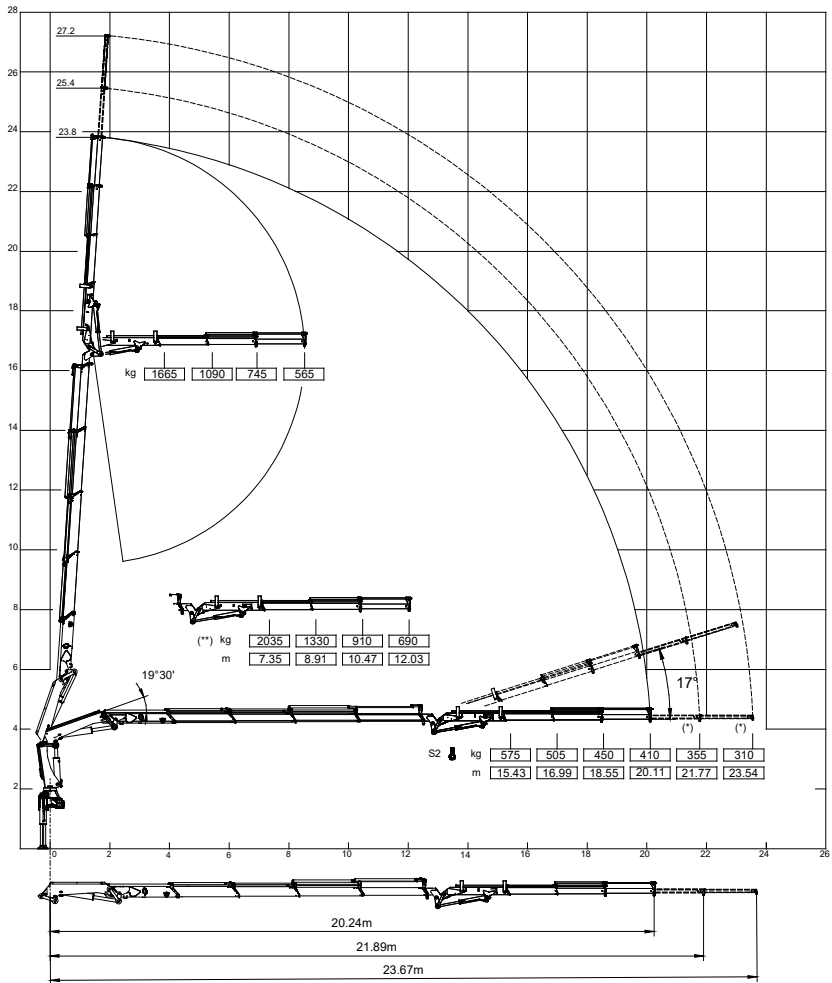
The given rated capacities can be moved only by operating the jib.

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LOAD CHART FOR USE WITH HOOK 921NG 4SJ3



(*) Manual extension (optional): this cannot lift additional hydraulic tools

(**) Max. lifting capacity of jib

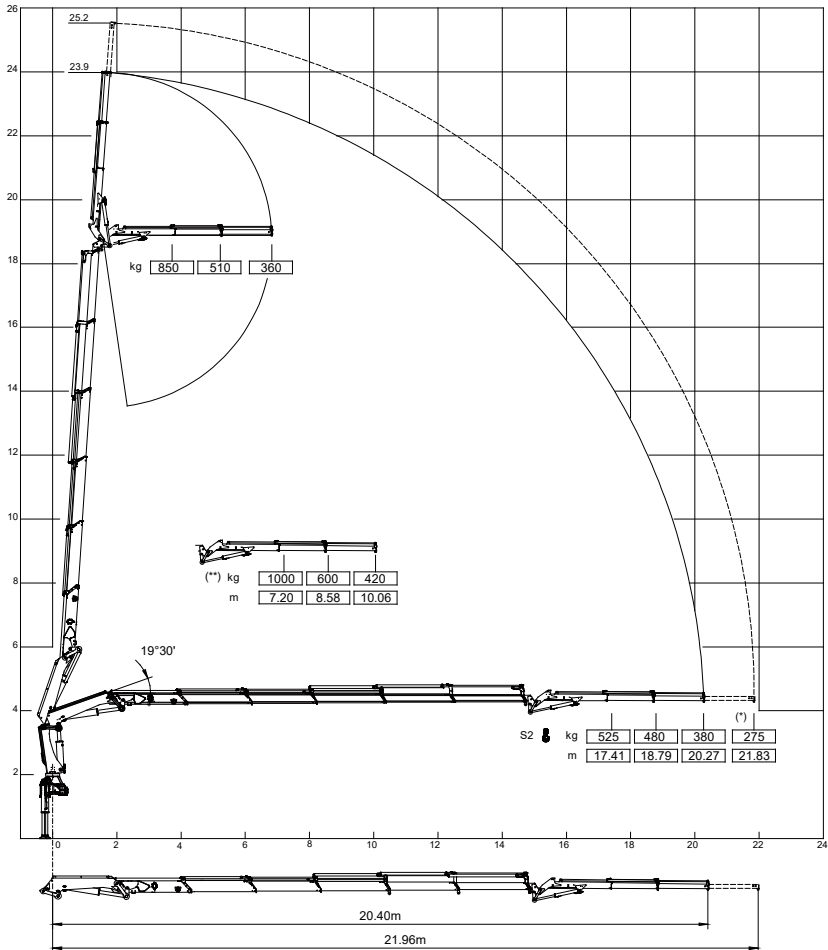
The given rated capacities can be moved only by operating the jib.

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TECHNICAL SHEET

LOAD CHART FOR USE WITH HOOK 921NG 5SJ2



(*) Manual extension (optional): this cannot lift additional hydraulic tools

(**) Max. lifting capacity of jib

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

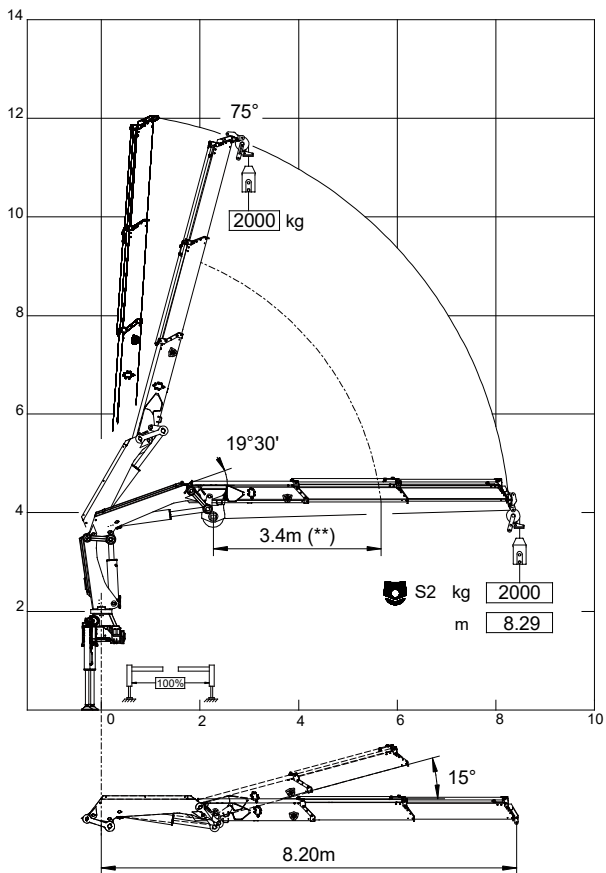
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D.9 LOAD CHARTS FOR T12 WINCH IN SINGLE LINE

921NG 2S + T12 SINGLE LINE



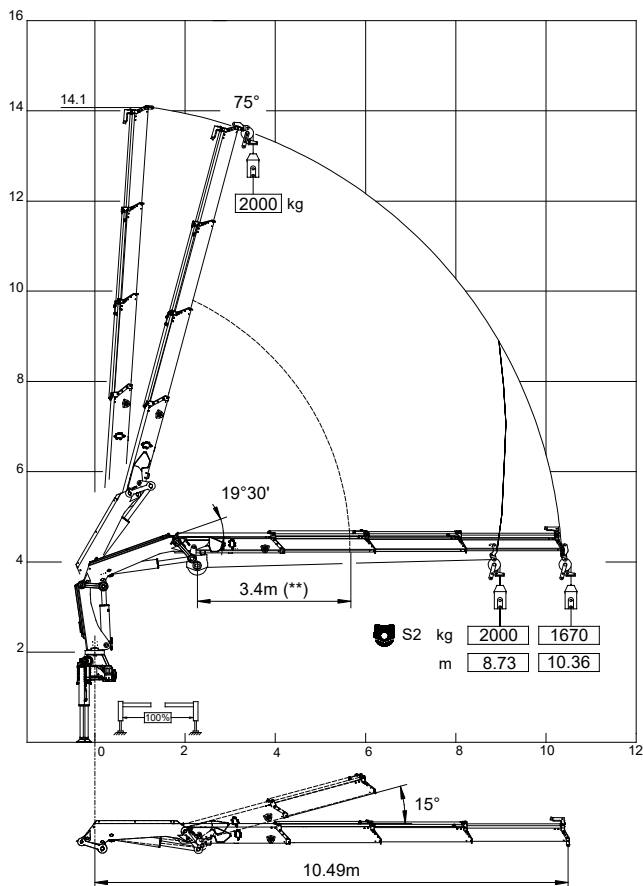
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE 921NG 3S + T12 SINGLE LINE



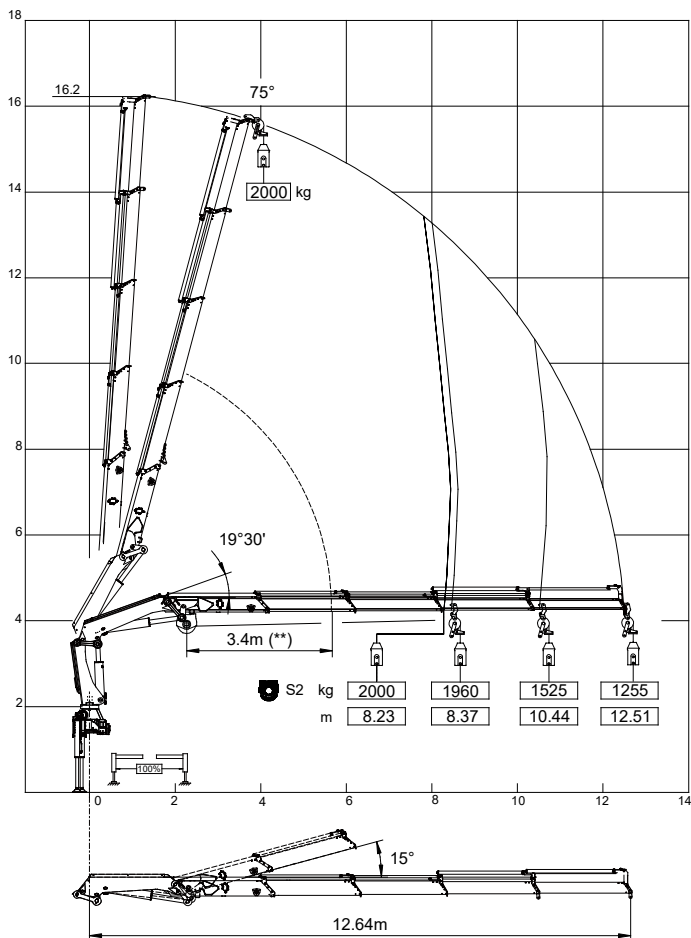
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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921NG

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LOAD CHART FOR WINCH T12 IN SINGLE LINE 921NG 4S + T12 SINGLE LINE



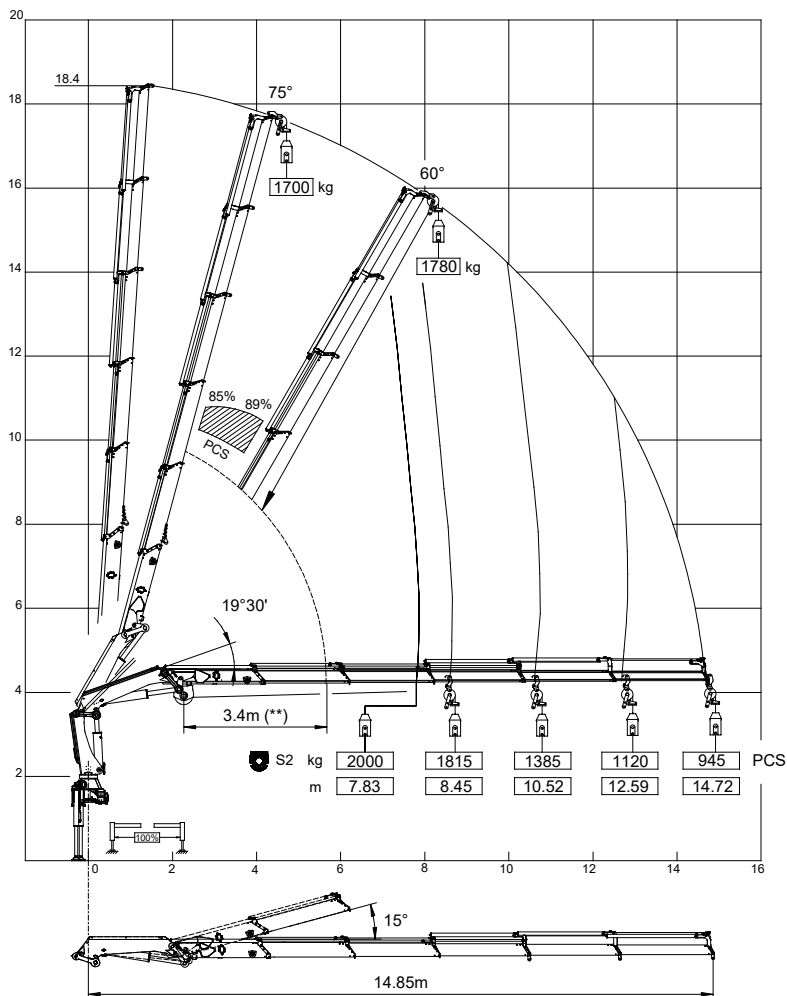
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE 921NG 5S + T12 SINGLE LINE



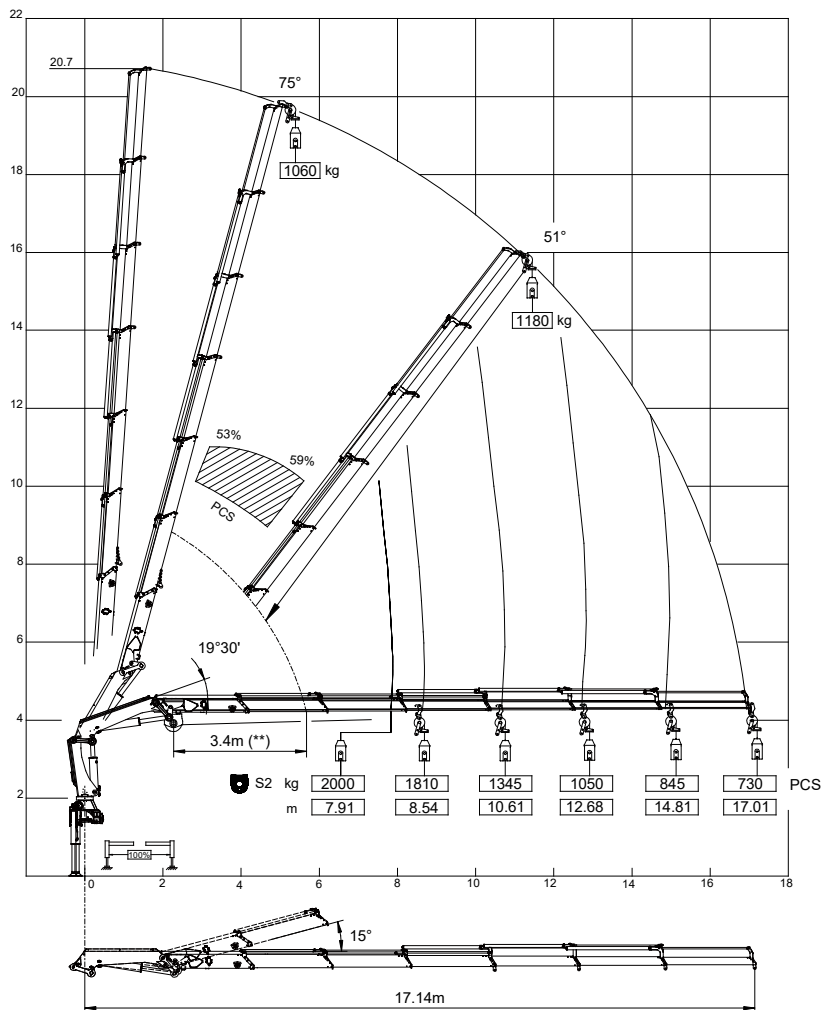
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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921NG

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LOAD CHART FOR WINCH T12 IN SINGLE LINE 921NG 6S + T12 SINGLE LINE



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

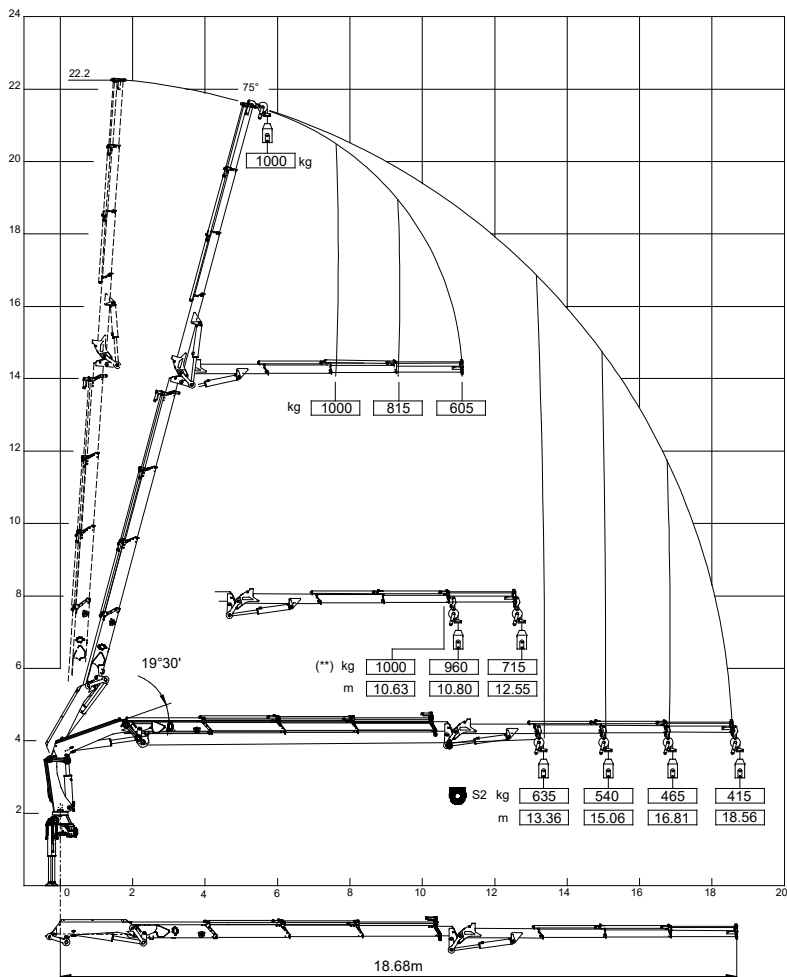
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TECHNICAL SHEET

D.10 LOAD CHARTS FOR T11 WINCH IN SINGLE LINE

921NG 3SJ3 + T11 SINGLE LINE



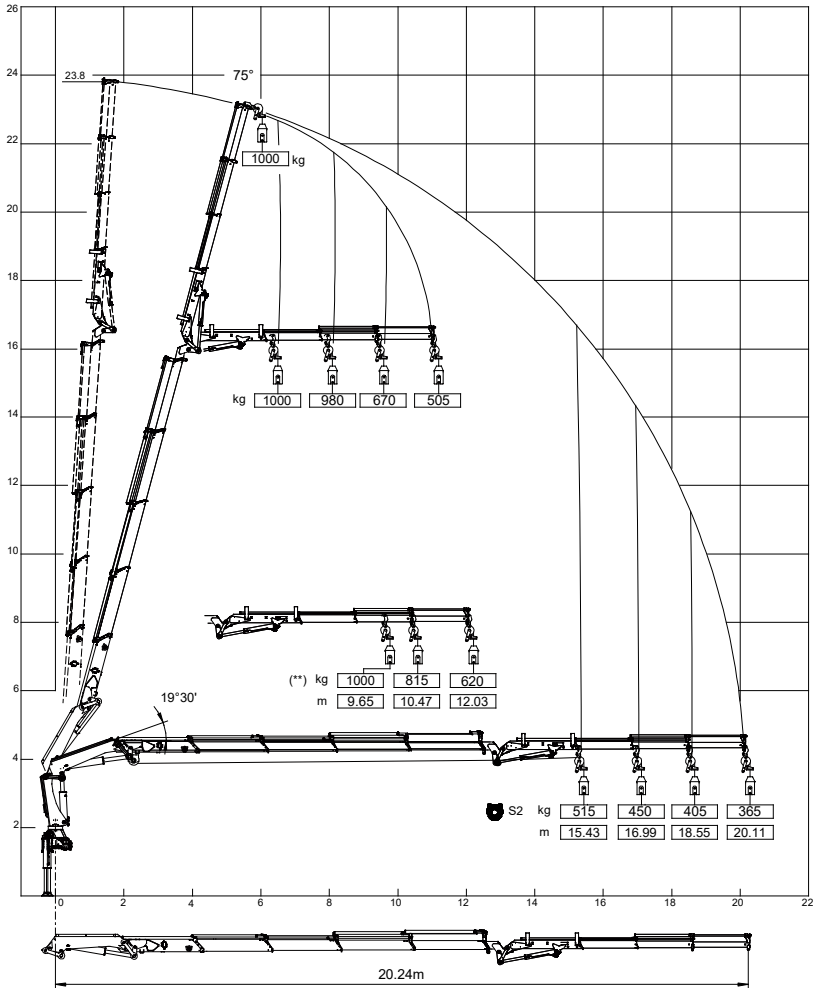
(**) Max. lifting capacity of jib
Winch max. pull: 1000 kg

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TECHNICAL SHEET

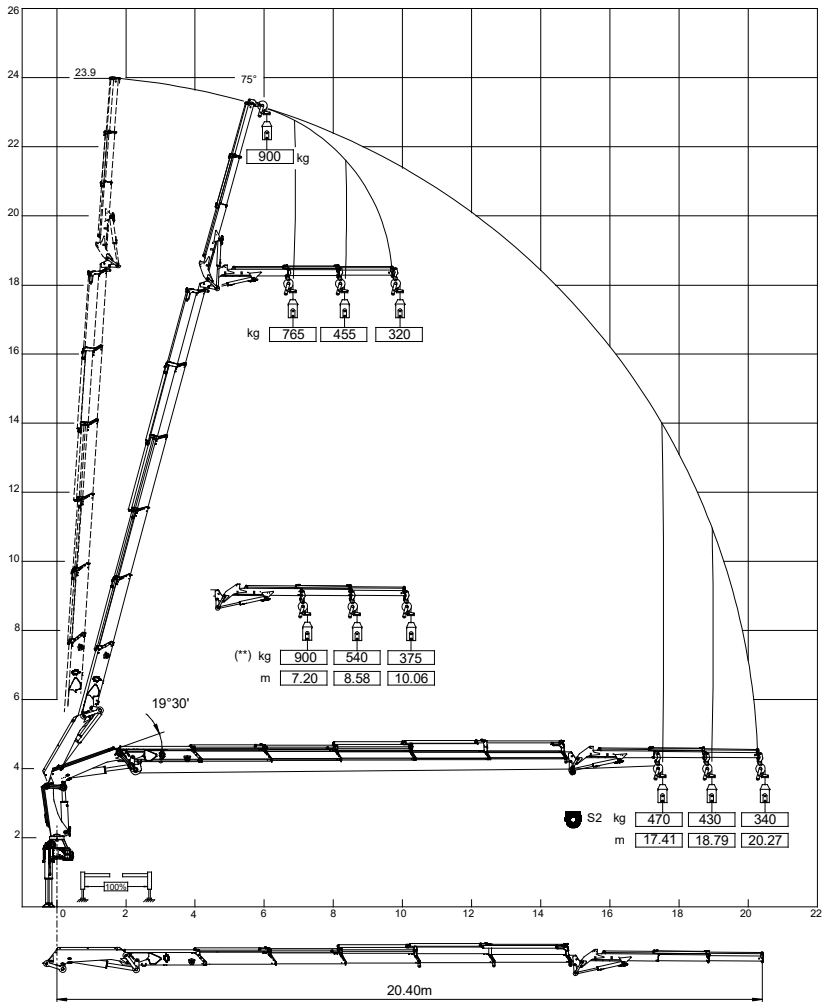
LOAD CHART FOR WINCH T1 IN SINGLE LINE 921NG 4SJ3 + T1 SINGLE LINE



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

TECHNICAL SHEET

921NG 5SJ2 + TI1 SINGLE LINE



(**) Max. lifting capacity of jib
Winch max. pull: 900 kg

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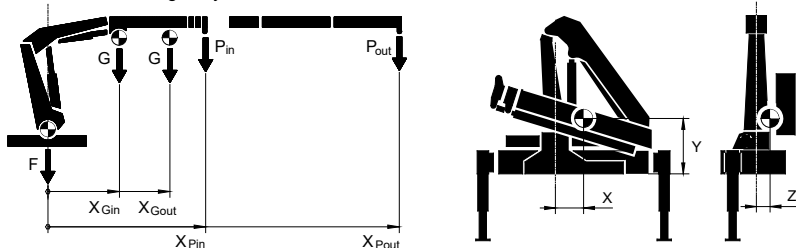
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TECHNICAL SHEET

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



Hooking point for the test load



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

in = configuration with all hydraulic extensions fully retracted

out = configuration with all hydraulic extensions fully extracted

WEIGHTS AND CENTERS OF GRAVITY

921NG	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	ST-M : 1425 EX-H : 1530 SE-H : 1660	1050	2.12 3.01	4555 2325	4.35 8.29	2906	223	724	18
3S		1200	2.26 3.79	4310 1670	4.35 10.36	2092	219	741	39
4S		1350	2.37 4.61	4100 1255	4.43 12.51	1605	209	757	58
5S		1470	2.46 5.36	3900 945	4.51 14.72	1241	198	772	70
6S		1565	2.51 5.97	3745 730	4.60 17.01	986	190	782	77
3SJ3		1860	3.45 7.04	710 465	13.36 18.56	581 (211 - 3S)	170	1035	110
4SJ3		1840	3.27 7.43	575 410	15.43 20.11	513 (186 - 4S)	183	1007	114
5SJ2		1745	2.95 7.12	525 380	17.41 20.27	475 (143 - 5S)	168	928	102

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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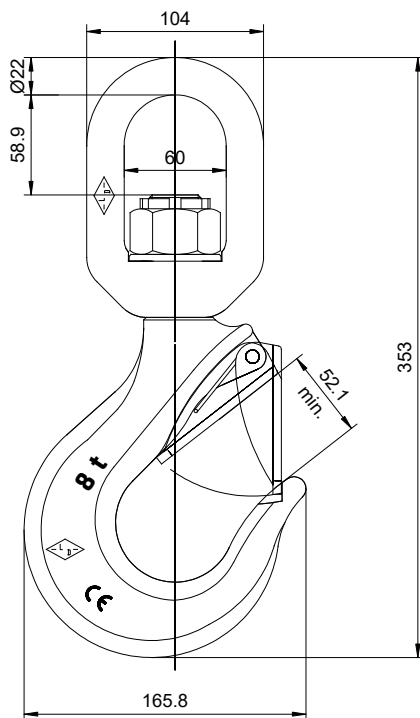
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TECHNICAL SHEET

D.12 HOOK DATA

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

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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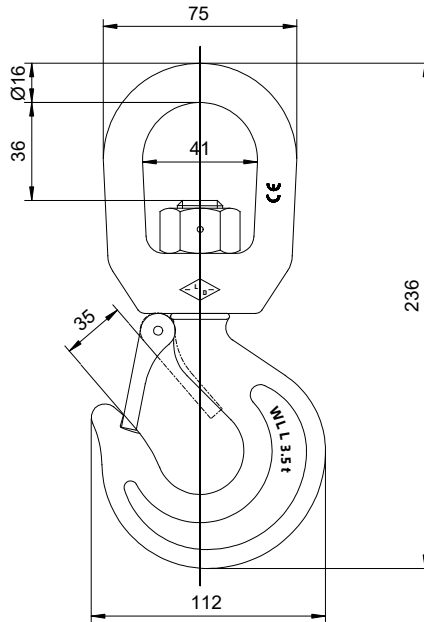
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TECHNICAL SHEET

HOOK DATA

HOOK MOUNTED ON JIB BOOM
VERSION: 3SJ3, 4SJ3, 5SJ2

DIMENSIONS



TECHNICAL PROPERTIES

Working load limit (WLL) : 3500 kg

Material: alloy steel

Weight: 1.2 kg

Swivel hook

Reference standard: DIN 15401

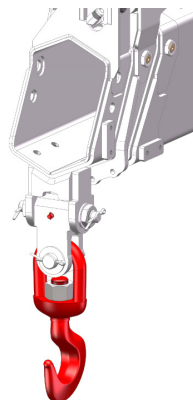
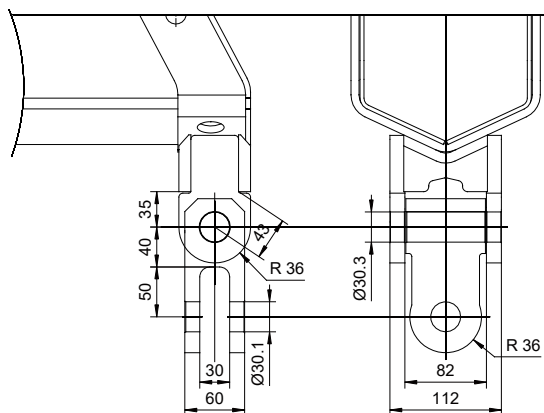
USER MANUAL

921NG

TECHNICAL SHEET

D.13 LOAD ATTACHMENT

ATTACHMENT FOR HOOK AND LIFTING TOOL



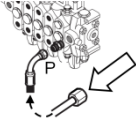
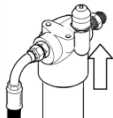
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921NG

TECHNICAL SHEET

D.14 HYDRAULIC SYSTEM

FITTINGS FOR CONNECTION TO PUMP

921NG	NO RDC	RDC
Control valve pressure line	 M 7/8"-14 JIC	 M 3/4"-16 GAS
Tank suction line	 M 1 1/2 BSP	 M 1 1/2 BSP

EXTENSION TIMES OF HYDRAULIC CYLINDERS

921NG	Extension time s	Retraction time s
Slewing (180°)	20	20
1.boom cylinder	18	26
2.boom cylinder	25	16
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)	44	44
jib articulation cylinder	N/A	N/A
jib extension 2S	N/A	N/A
jib extension 3S	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 NO 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.

921NG	Time interval min.	Max. load descent mm
2S	10	415
3S	10	518
4S	10	250
5S	10	294
6S	10	340
3SJ3	10	371
4SJ3	10	402
5SJ2	10	405

USER MANUAL

921NG

TECHNICAL SHEET

CAPACITY OF HYDRAULIC SYSTEM

921NG	Cylinders extended ℓ	Cylinders retracted ℓ
2S	70	46
3S	78	50
4S	86	55
5S	94	60
6S	102	67
3SJ3	102	66
4SJ3	102	65
5SJ2	103	66

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

USER MANUAL

921NG

TECHNICAL SHEET

D.15 OIL COOLER



TECHNICAL SPECIFICATIONS

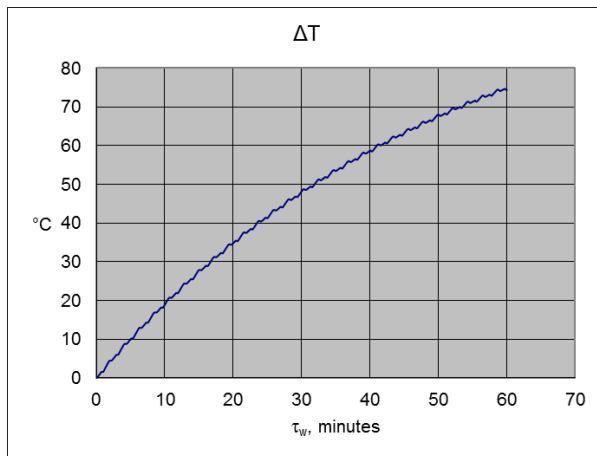
Heat transfer coefficient: 235 W/K (oil flow rate of 40 l/min)

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)

USER MANUAL

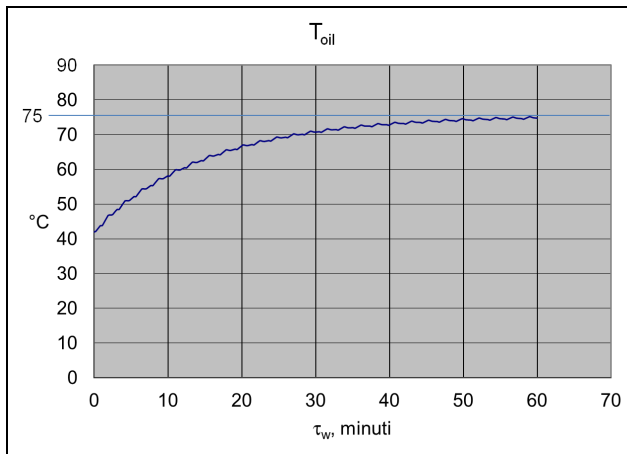
921NG

TECHNICAL SHEET

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)

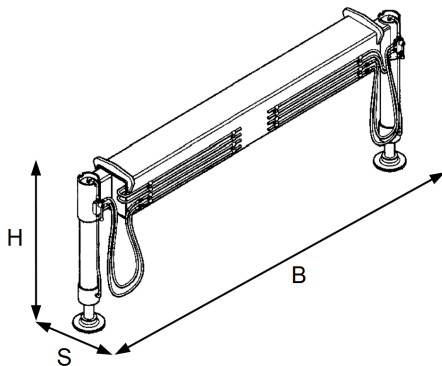
The calculation of the oil temperature is purely indicative and depending on several variables (e.g. working cycle, wind, humidity, weather, etc.)

USER MANUAL

921NG

TECHNICAL SHEET

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:

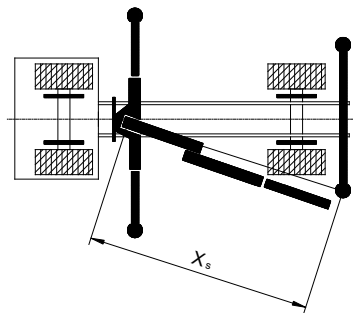
M_{dyn} : max. dynamic moment of the crane

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 crane's manufacturer.

Code	Spread (m)	Weight (kg)	R_{max} (kg)	Overall dimensions BxHxS (mm)
7850088	2.00	155	6250	2160x770x190
7850086	3.32	220	6250	2285x780x240
7850087	3.32	235	6250	2285x780x240

For further information see the User Manual for additional stabilizers.

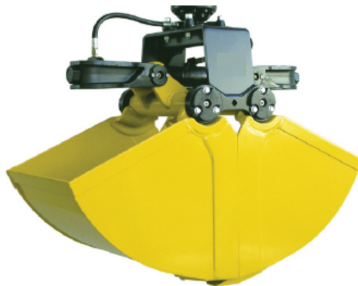
USER MANUAL

921NG

TECHNICAL SHEET

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	2325	H605-650	410	650	975	1915	60%	100%
3S	1670	H605-650	410	650	975	1260	83%	100%
4S	1255	H605-450	340	450	675	915	81%	100%
5S	945	H604-325	235	325	487,5	710	76%	100%
6S	730	H604-200	195	200	300	535	68%	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

USER MANUAL

921NG

TECHNICAL SHEET

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	2325	H653-4 large	435	500	750	1890	51%	100%
3S	1670	H653-4 large	435	500	750	1235	71%	100%
4S	1255	H653-4 large	395	350	525	860	73%	100%
5S	945	H653-4 small	250	240	360	695	65%	100%
6S	730	H653-4 small	235	180	270	495	69%	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

USER MANUAL
921NG
TECHNICAL SHEET

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	2325	H634-0,25	170	4000	2155	100%	54%
3S	1670	H634-0,25	170	4000	1500	100%	38%
4S	1255	H634-0,25	170	4000	1085	100%	27%
5S	945	H634-0,25	170	4000	775	100%	19%
6S	730	H634-0,25	170	4000	560	100%	14%

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

USER MANUAL

921NG

TECHNICAL SHEET

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	2325	H332-850	245	2200	2080	79%	100%
3S	1670	H332-850	245	2200	1425	100%	89%
4S	1255	H332-850	245	2200	1010	100%	63%
5S	945	H332-850	245	2200	700	100%	32%
6S	730	H332-850	245	2200	485	100%	22%

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

USER MANUAL

921NG

TECHNICAL SHEET

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	2325	H415 2000-500	155	2000	2170	93%	100%
3S	1670	H415 1500-500	135	1500	1535	98%	100%
4S	1255	H415 1500-500	135	1500	1120	100%	75%
5S	945	H415 1500-500	135	1500	810	100%	54%
6S	730	H415 1500-500	135	1500	595	100%	40%

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