

USER MANUAL
922NG
TECHNICAL SHEET

D TECHNICAL SHEET



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D.1 CRANE'S TECHNICAL DATA

Versions			2S	3S	4S	5S	6S	3SJ3	4SJ3	5SJ2	
Max. net lifting moment		 $t\ m$ kNm	20.7 203	20.2 198	19.6 192	19.3 189	18.9 185	10.3 154	15.6 153	10.2 100	
Max. dynamic moment		 $daNm$ kNm	24960 249.6						24690 246.9	24590 245.9	
Capacity at min. hydraulic outreach	hook [S2]	 kg	4760	4640	4420	4280	4100	2145	2130	1045	
	grab [S1]	 kg	4760	4640	4420	4280	4100	N/A	N/A	N/A	
Max rated capacity		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	2475	1870	1395	1070	840	525	470	435	
	grab [S1]	 kg	2475	1870	1395	1070	840	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	1240	1065	840	705	450	410	315	
	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 ext.		 kg	N/A	90	67	48	41	35	30	22	
Max. working pressure		 bar	335						N/A		N/A
Max. oil flow rate		 l/min	45								
		 l/min	70								
Power needed		 kW	32.7						N/A		N/A
		 kW	50.8						N/A		N/A
Oil tank capacity		 l	130								
Slewing angle		 $^{\circ}$	415 $^{\circ}$								
Gross slewing torque		 $daNm$ kNm	2940 29.4						N/A N/A		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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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	940
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°-90% 75°-85%	50°-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

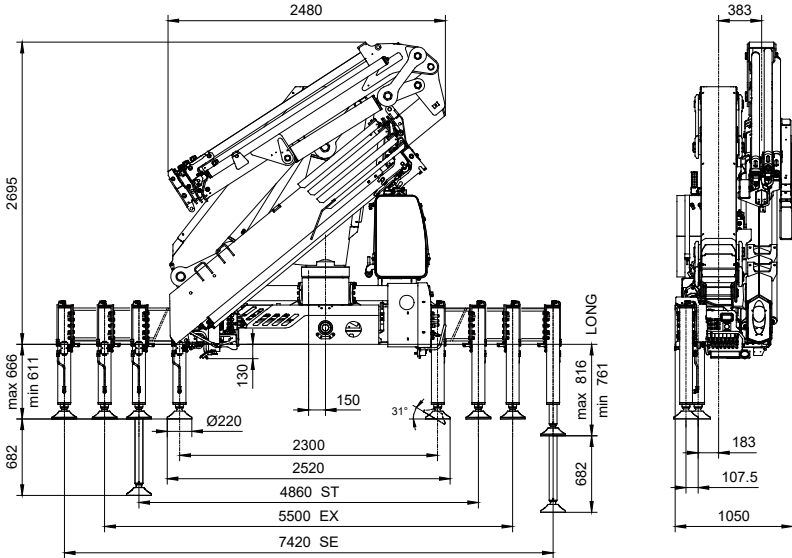
Additional weight of 1st extra function activated with hose reel: 20 kg

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

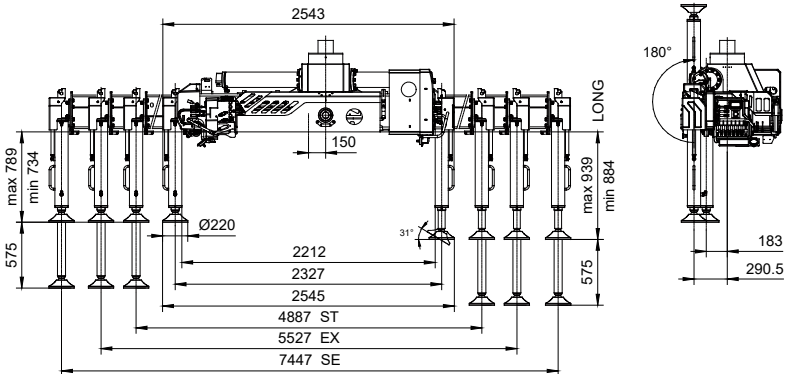
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3SJ3

FIXED STABILIZERS LEGS



TURNING STABILIZERS LEGS



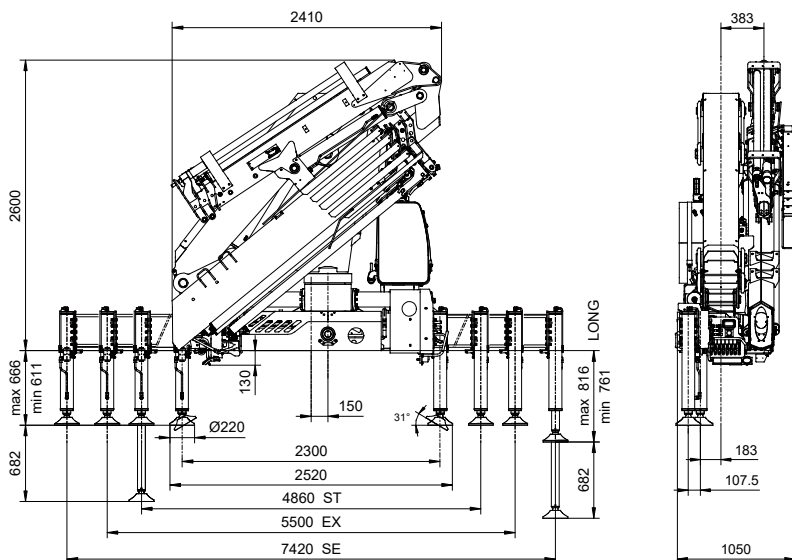
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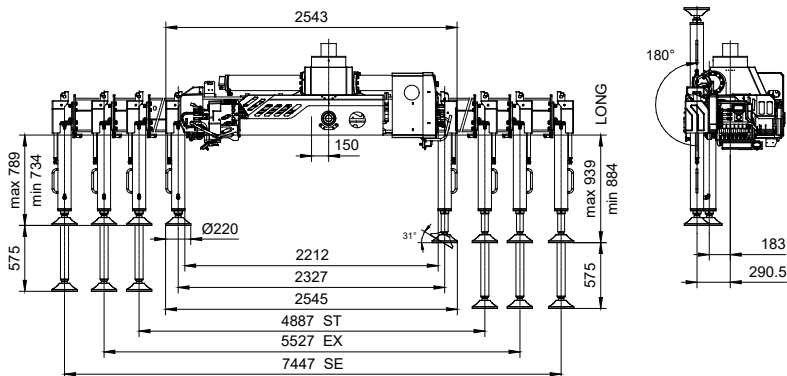
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OVERALL DIMENSIONS 4SJ3

FIXED STABILIZERS LEGS



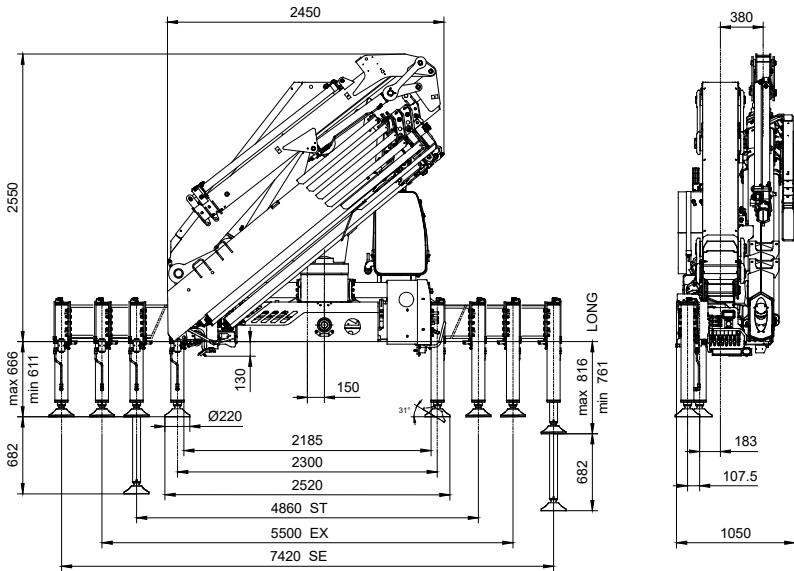
TURNING STABILIZERS LEGS



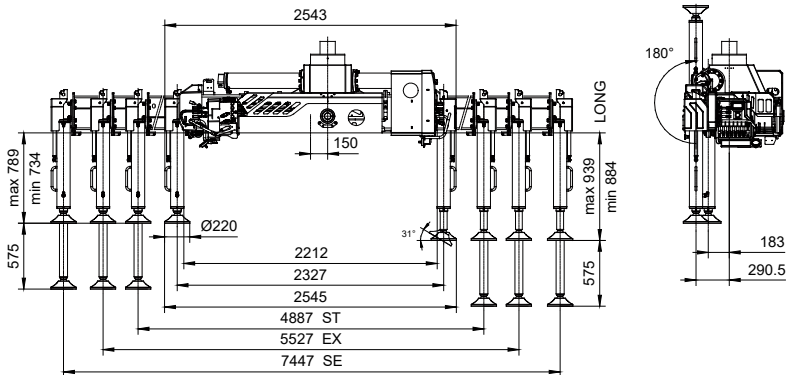
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5SJ2

FIXED STABILIZERS LEGS

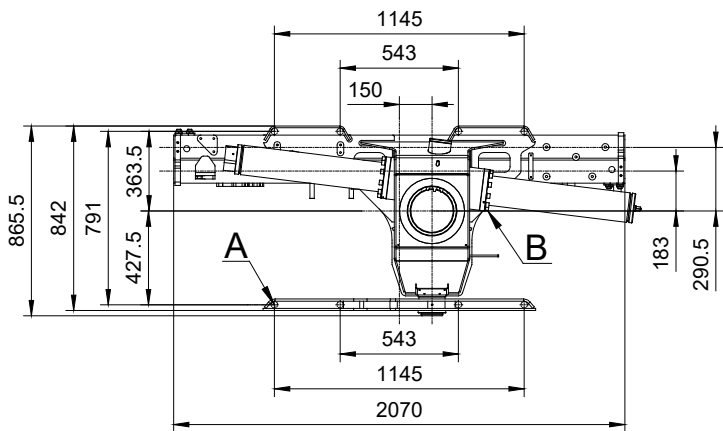


TURNING STABILIZERS LEGS



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D.5 BASE DIMENSIONS AND MOUNTING BOLTS

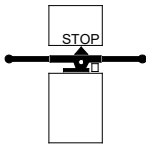
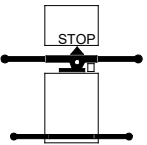
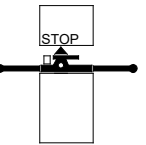
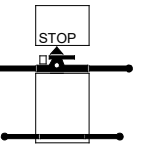
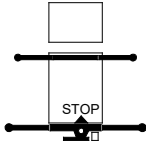
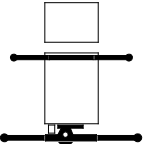
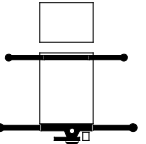
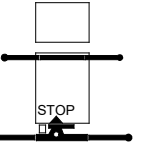
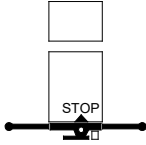
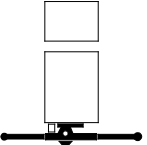
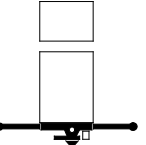
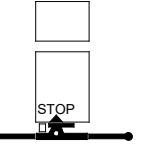
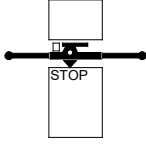
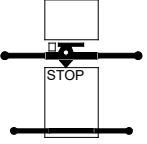
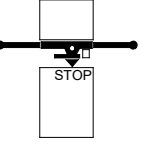
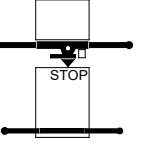


Ref.	Description	Q.ty	Material Grade	Size (Q.ty)	Tightening torque
A	Kit with 8 crane mounting bolts	8	42CrMo4+QT EN 10083-3	M24x2 L=1100 (4) L=1015 (4)	400 Nm
	Kit with 4 crane mounting bolts	4	42CrMo4+QT EN 10083-3	M30x2 L=1000 (2) L=1100 (2)	700 Nm
B	Fixing bolts for each slewing cylinder	10	8.8	M14x2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

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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:

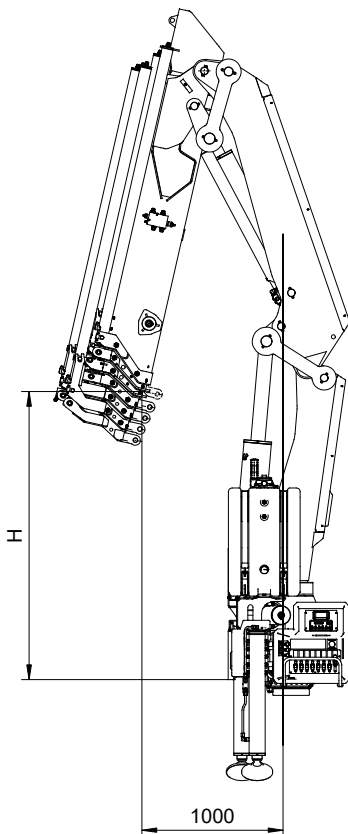
- ▲ : position of dead point (STOP)
- : position of main manual controls (on column side)

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D.7 LIFTING HEIGHT CLOSE TO THE COLUMN



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

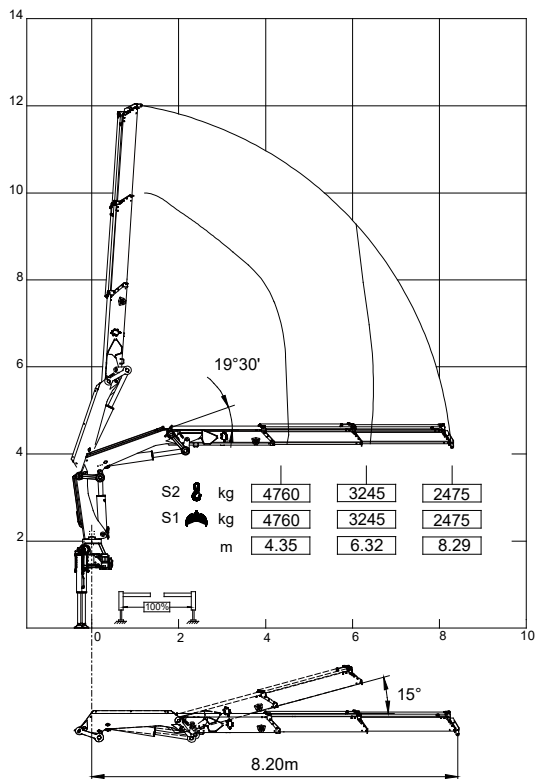
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D.8 LOAD CHARTS FOR USE WITH HOOK/TOOL

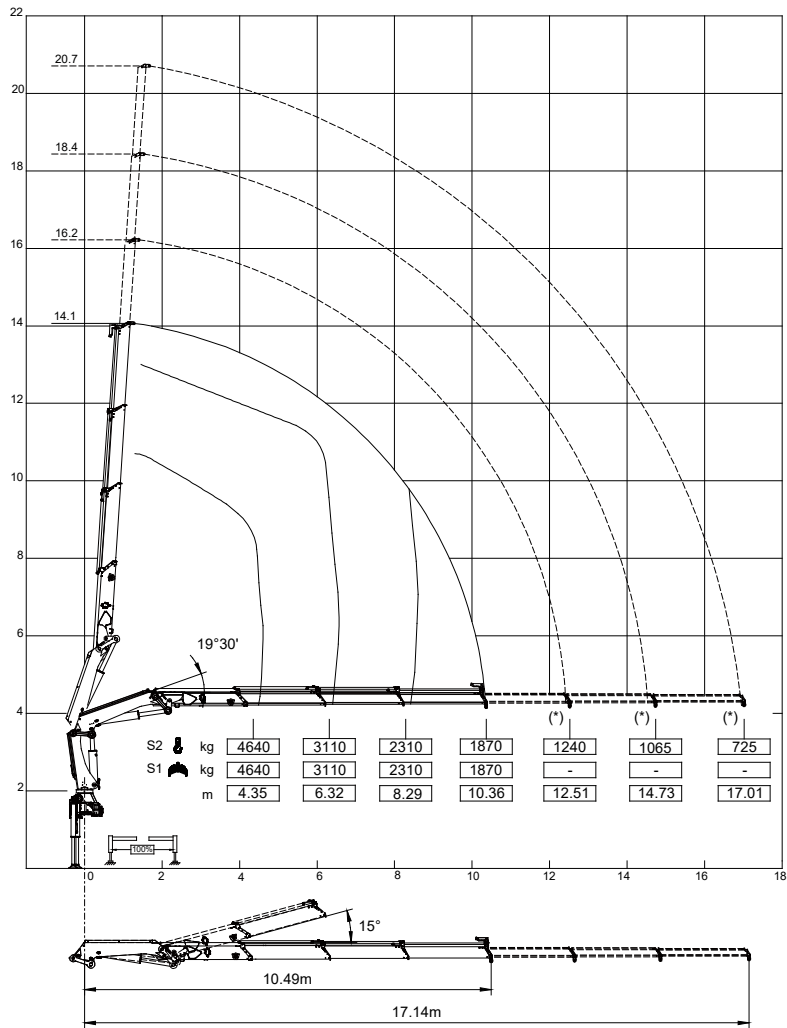
922NG 2S



(*) 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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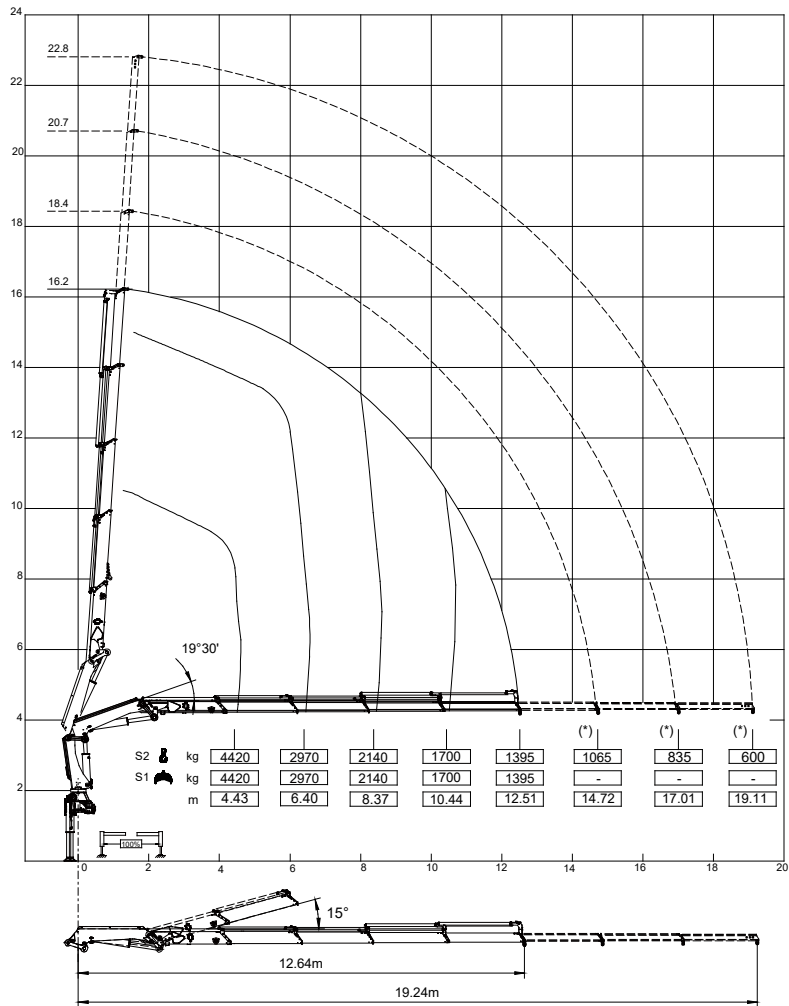
LOAD CHARTS FOR USE WITH HOOK/TOOL
922NG 3S



(*) 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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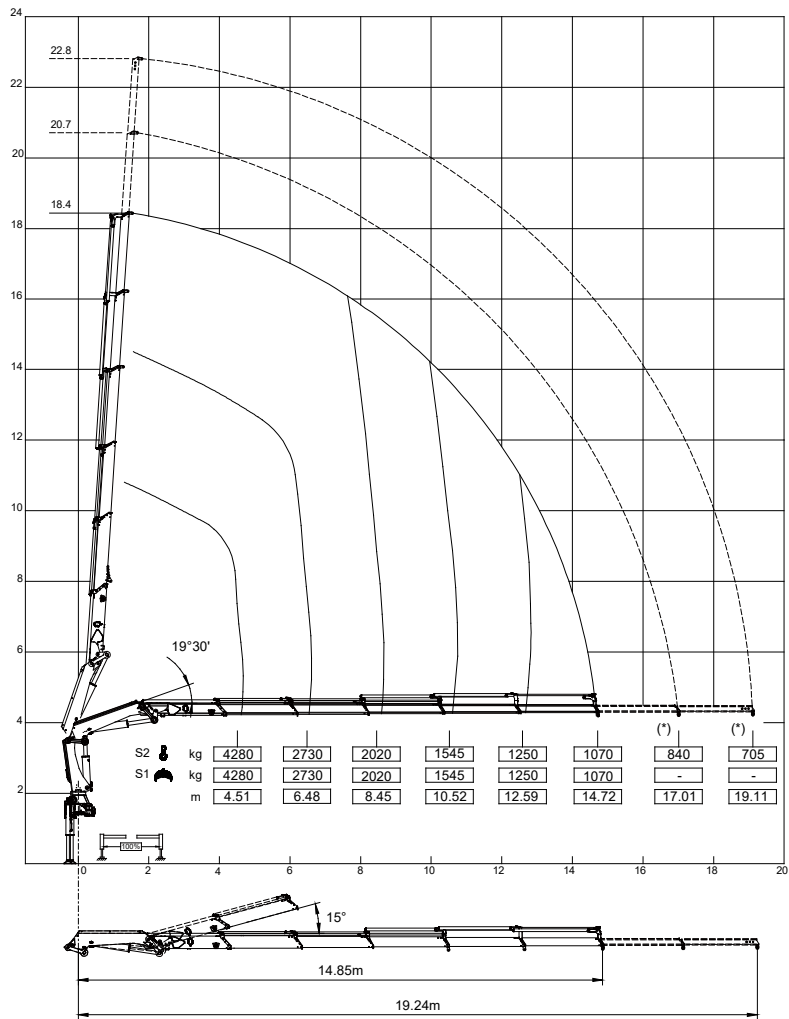
LOAD CHARTS FOR USE WITH HOOK/TOOL
922NG 4S



(*) 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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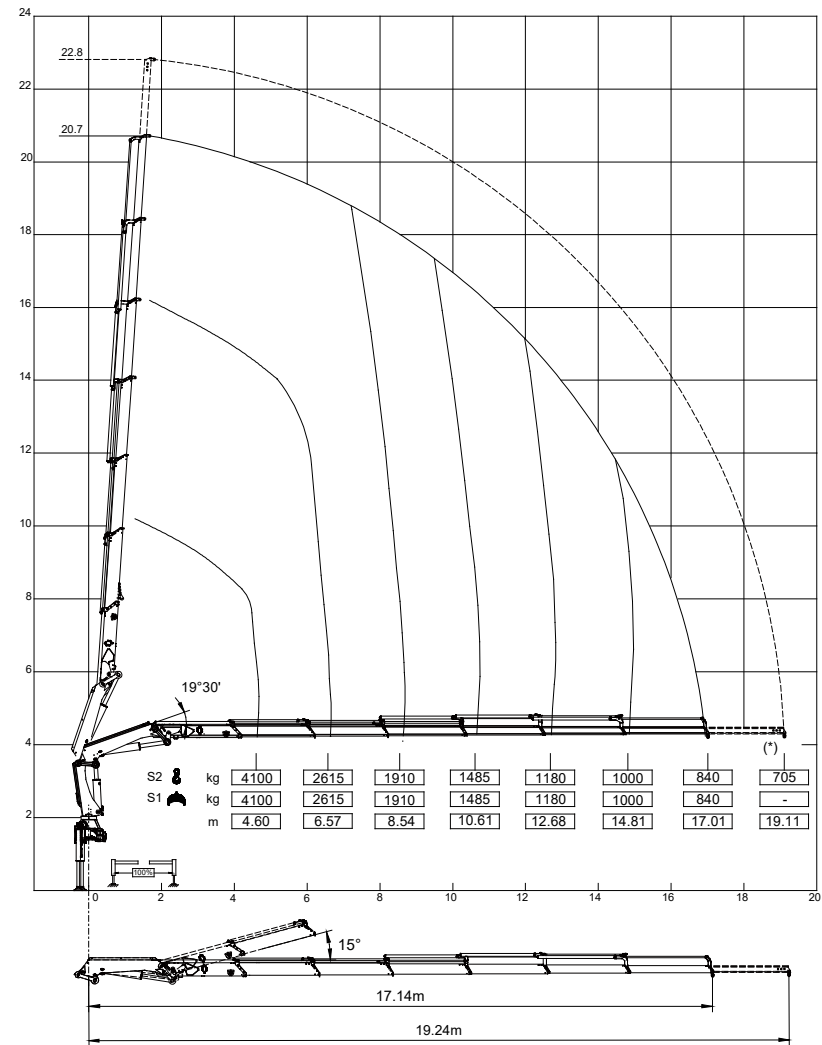
LOAD CHARTS FOR USE WITH HOOK/TOOL
922NG 5S



(*) 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
922NG 6S



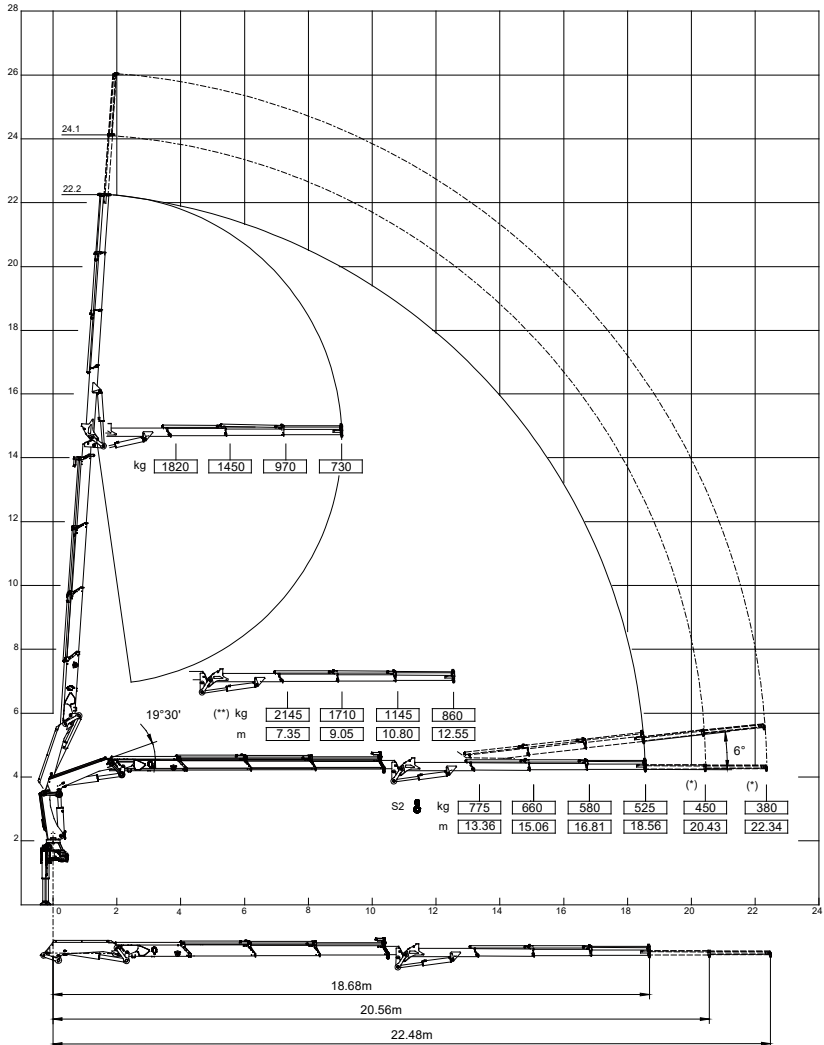
(*) Manual extensions (optional): these cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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LOAD CHART FOR USE WITH HOOK 922NG 3SJ3



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

(**) Max. lifting capacity of jib

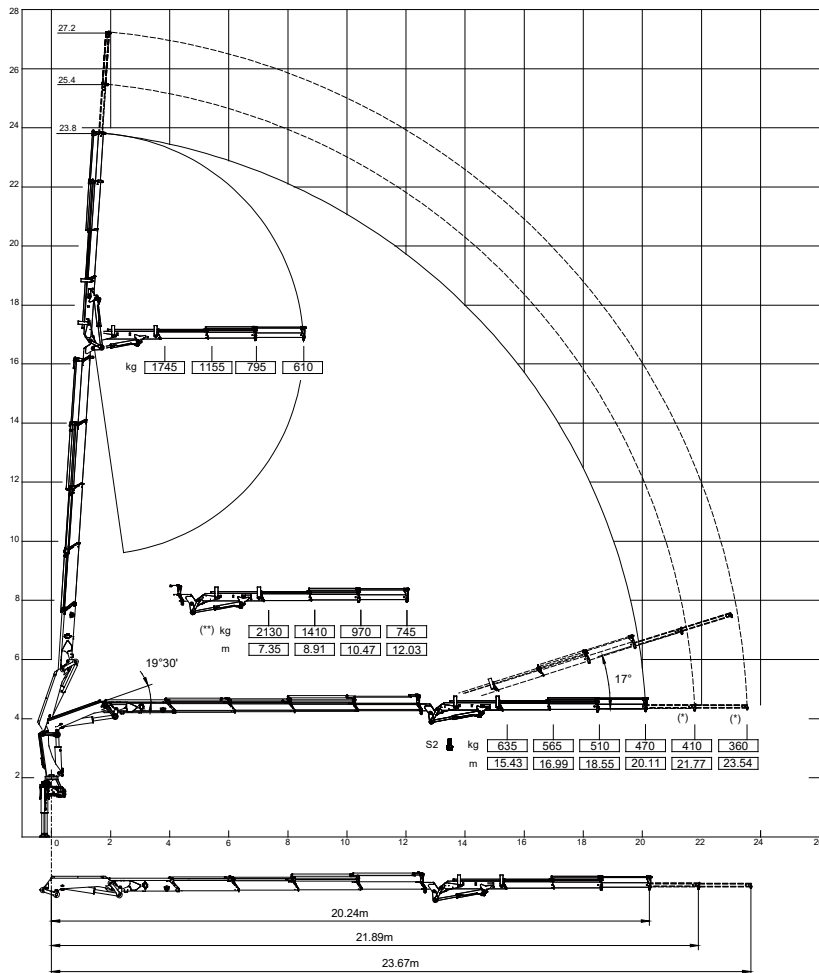
The given rated capacities can be moved only by operating the jib.

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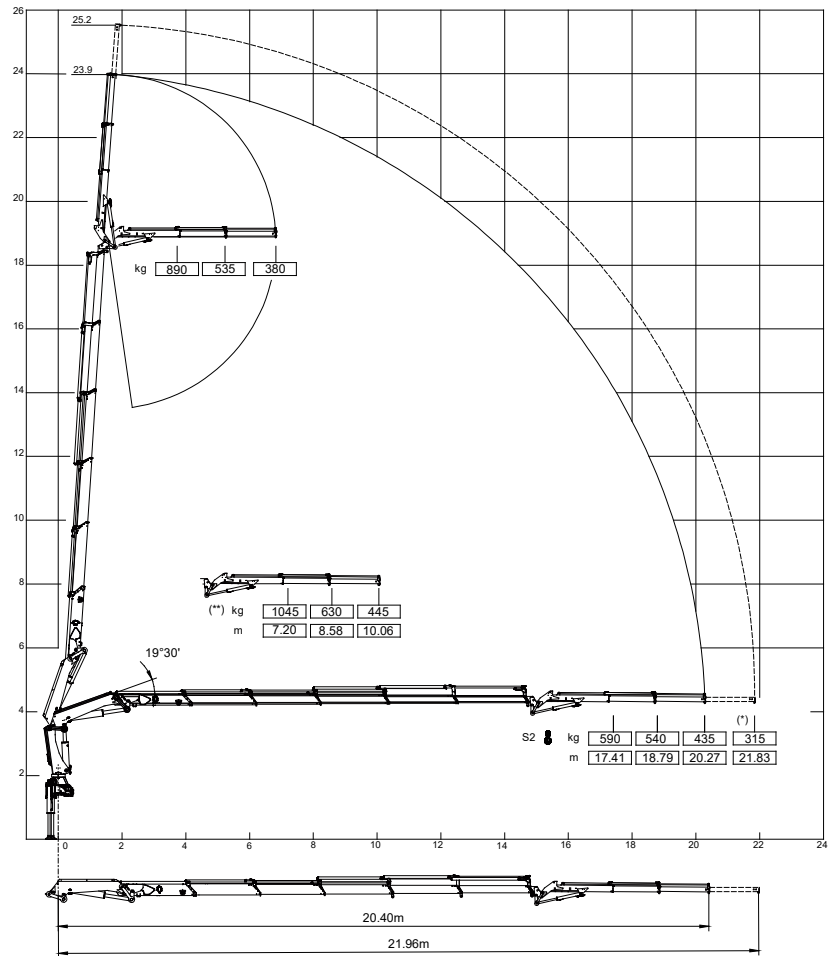
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LOAD CHART FOR USE WITH HOOK 922NG 4SJ3



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LOAD CHART FOR USE WITH HOOK
922NG 5SJ2



(*) 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.

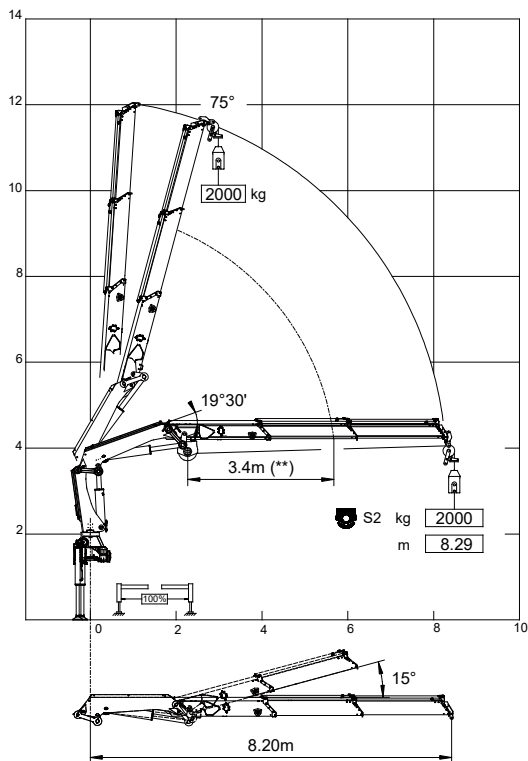
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D.9 LOAD CHARTS FOR T12 WINCH IN SINGLE LINE

922NG 2S + T12 SINGLE LINE



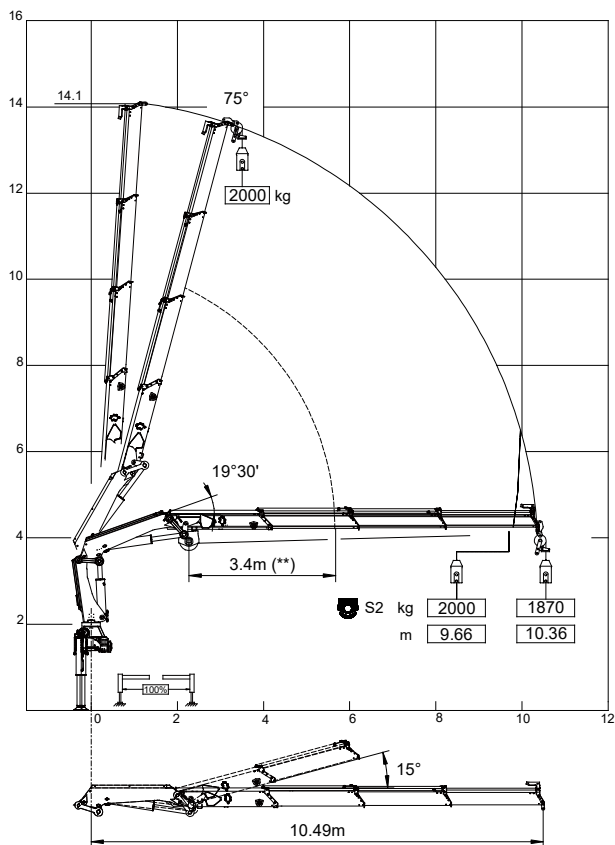
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE 922NG 3S + T12 SINGLE LINE



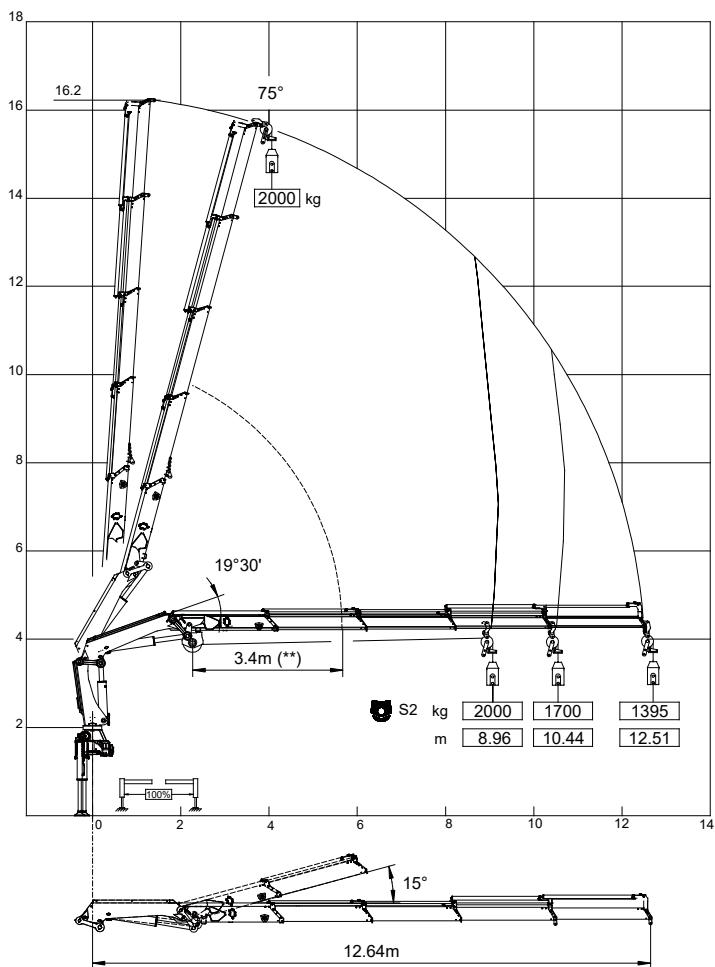
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE 922NG 4S + T12 SINGLE LINE



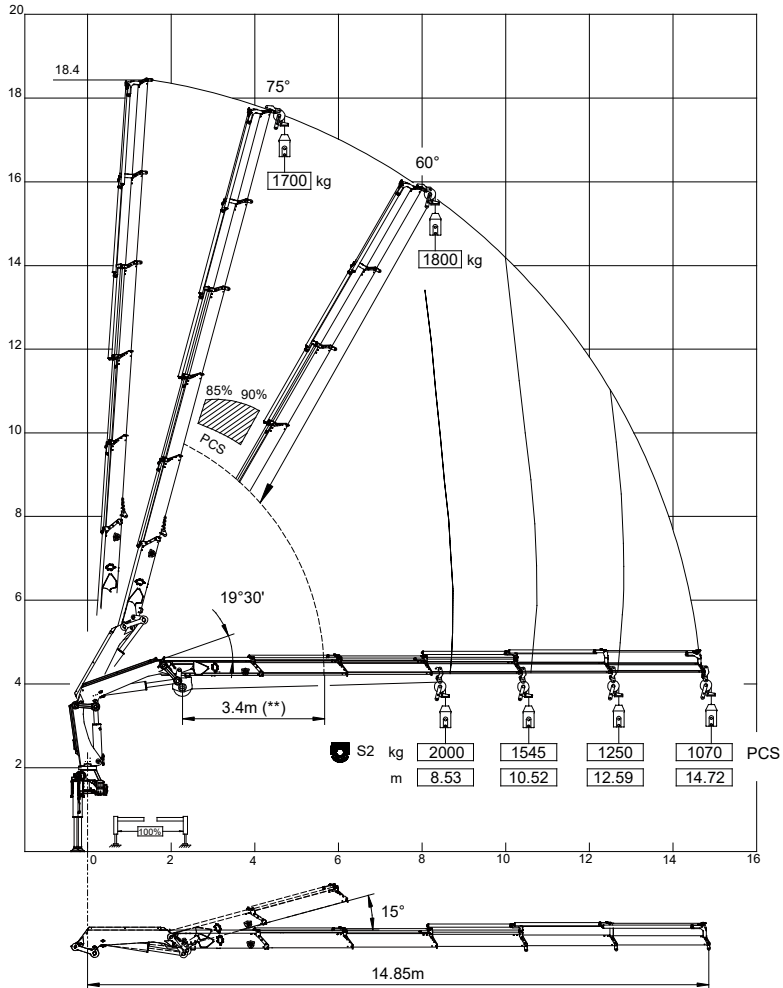
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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LOAD CHART FOR WINCH T12 IN SINGLE LINE 922NG 5S + T12 SINGLE LINE



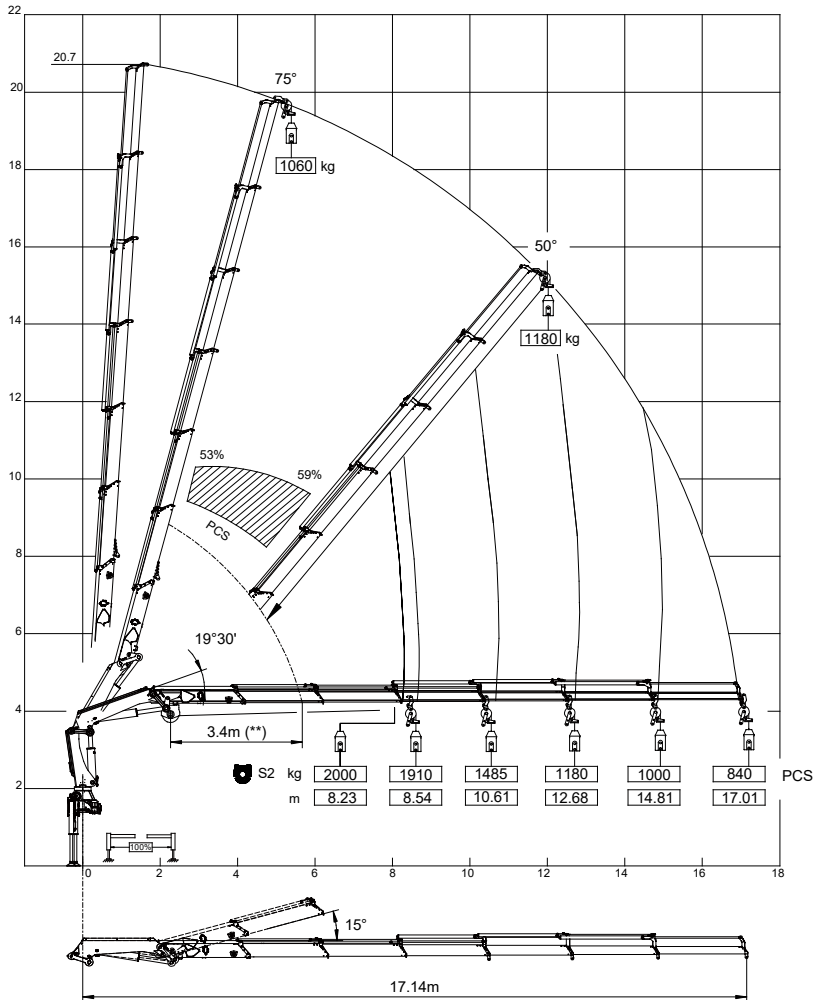
(**) Minimum distance winch - pulley
Winch max. pull with PCS: 2000 kg
PCS: Pull Control System, present on CE/TOP cranes

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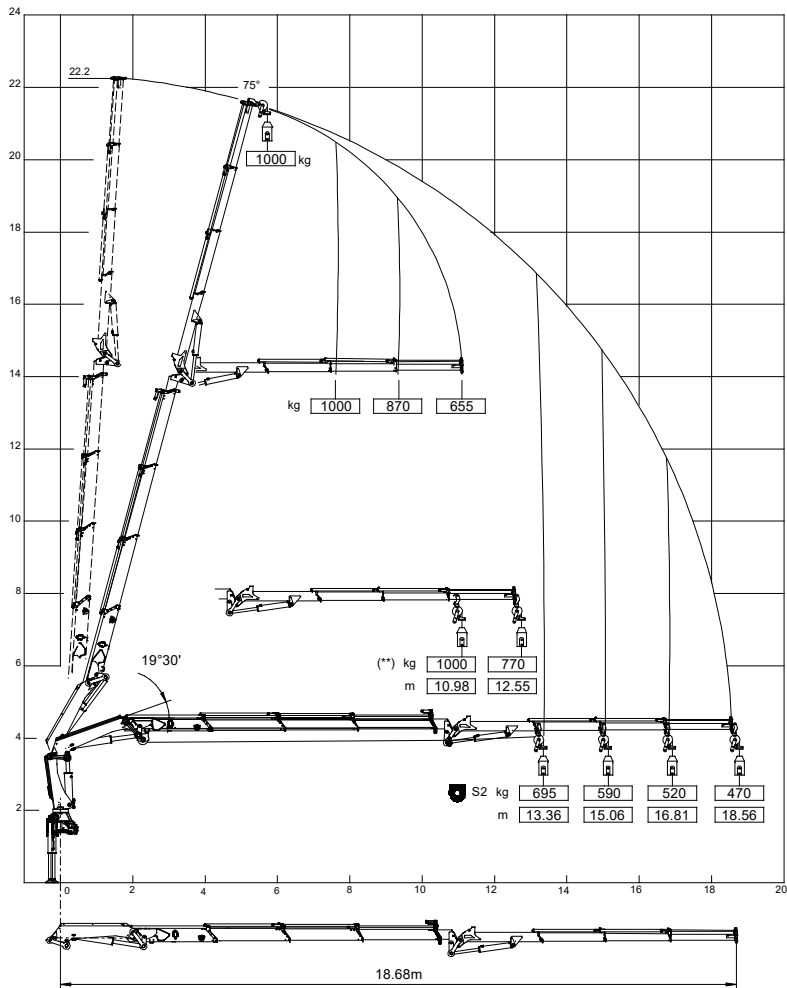
LOAD CHART FOR WINCH T12 IN SINGLE LINE 922NG 6S + T12 SINGLE LINE



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

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D.10 LOAD CHARTS FOR T11 WINCH IN SINGLE LINE
922NG 3SJ3 + T11 SINGLE LINE



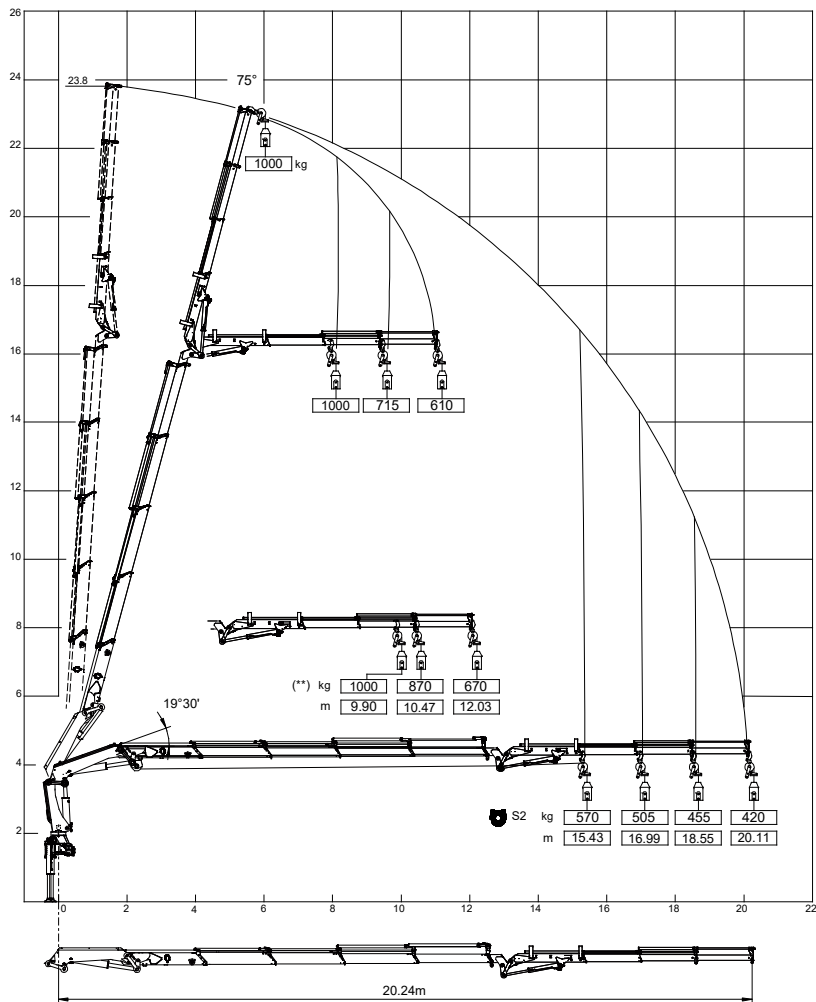
(**) Max. lifting capacity of jib
Winch max. pull: 1000 kg

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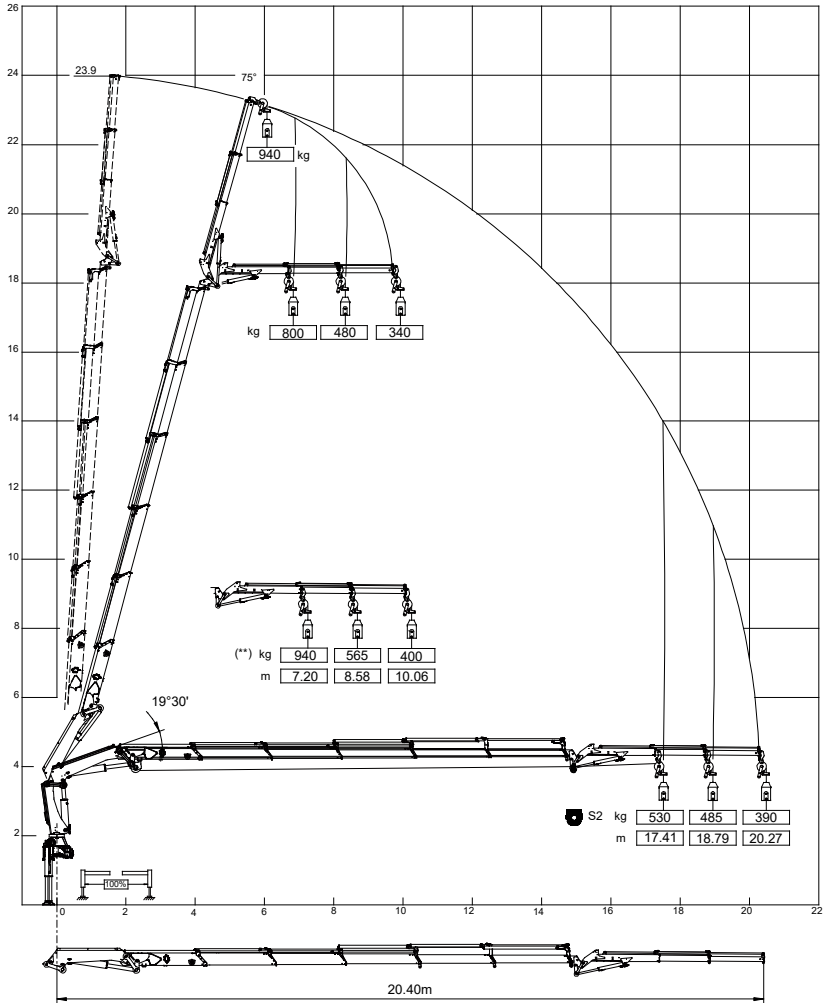
LOAD CHART FOR WINCH T1 IN SINGLE LINE 922NG 4SJ3 + T1 SINGLE LINE



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

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922NG 5SJ2 + T11 SINGLE LINE



(**) Max. lifting capacity of jib
Winch max. pull: 940 kg

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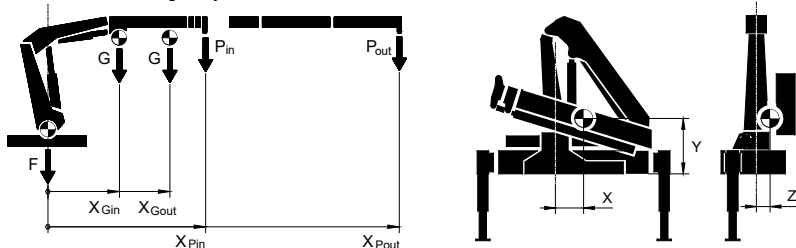
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D.11 CENTERS OF GRAVITY AND TEST LOADS

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

Loads and centers of gravity



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

922NG	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	4760 2475	4.35 8.29	3094	223	724	18
3S		1200	2.26 3.79	4640 1870	4.35 10.36	2338	219	741	39
4S		1350	2.37 4.61	4420 1395	4.43 12.51	1773	209	757	58
5S		1470	2.46 5.36	4280 1070	4.51 14.72	1391	198	772	70
6S		1565	2.51 5.97	4100 840	4.60 17.01	1118	190	782	77
3SJ3		1860	3.45 7.04	775 525	13.36 18.56	656 (206 - 3S)	170	1035	110
4SJ3		1840	3.27 7.43	635 470	15.43 20.11	588 (181 - 4S)	183	1007	114
5SJ2		1745	2.95 7.12	590 435	17.41 20.27	544 (139 - 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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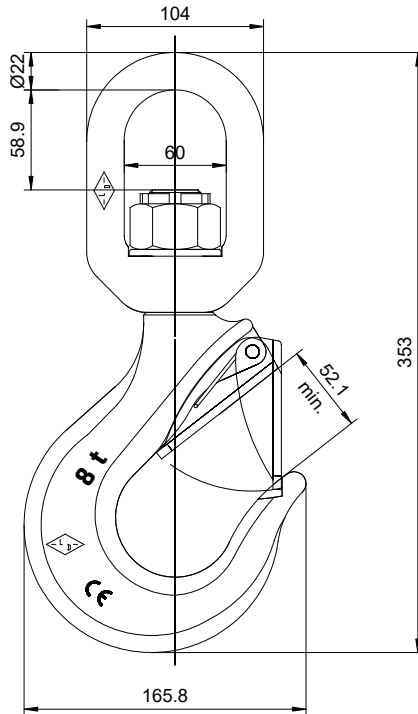
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D.12 HOOK DATA

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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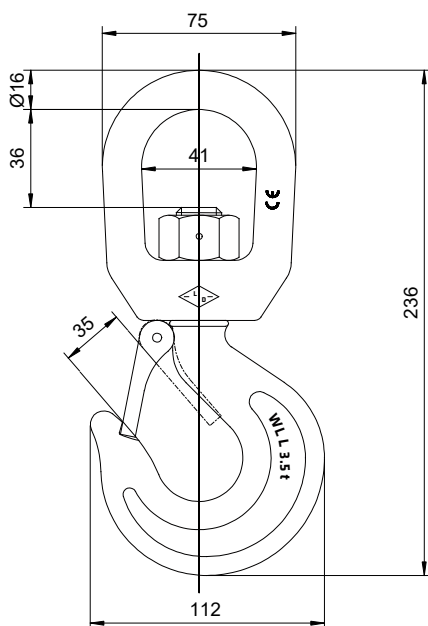
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HOOK DATA

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

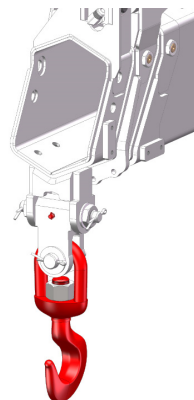
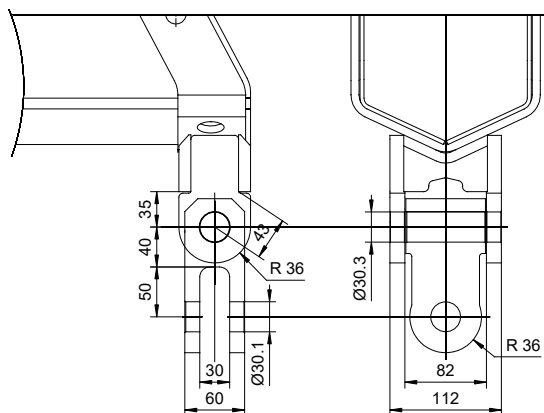
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D.13 LOAD ATTACHMENT

ATTACHMENT FOR HOOK AND LIFTING TOOL



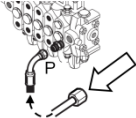
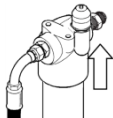
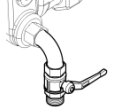
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D.14 HYDRAULIC SYSTEM

FITTINGS FOR CONNECTION TO PUMP

922NG	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

922NG	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.

922NG	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

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CAPACITY OF HYDRAULIC SYSTEM

922NG	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

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D.15 OIL COOLER



TECHNICAL SPECIFICATIONS

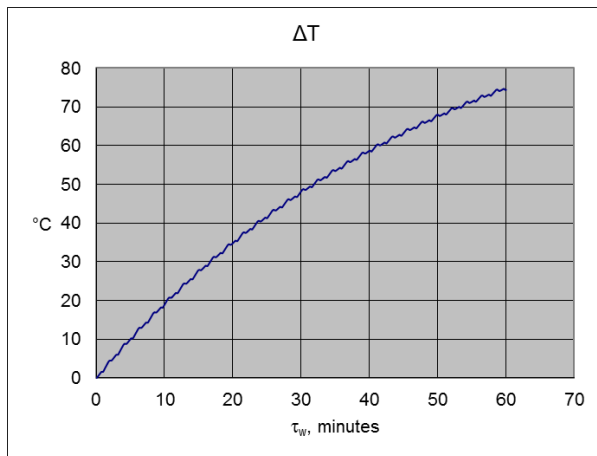
Heat transfer coefficient: 235 W/K (oil flow rate of 40 l/min)

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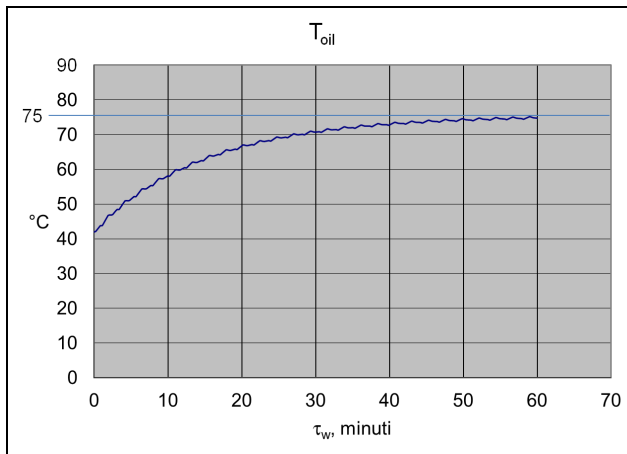
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However, when a crane equipped with oil cooler carries out a sequence of standard work cycles, the oil temperature exceeds 75 °C after the following working times:

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.



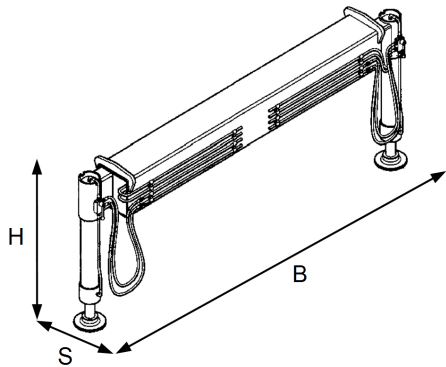
Notes:

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:

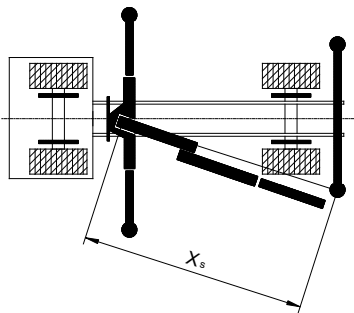
- the installation is stable (see Installer Manual)
- the max. force acting on the additional stabilizers, F_s , is lower than the max. load allowed by the stabilizers itself, R_{max} .

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

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)
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 outriggers.

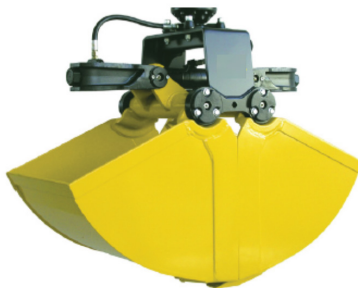
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D.17 RECOMMENDED ADDITIONAL LIFTING TOOLS

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	2475	H605-650	410	650	975	2065	56%	100%
3S	1870	H605-650	410	650	975	1460	74%	100%
4S	1395	H605-450	340	450	675	1055	73%	100%
5S	1070	H604-325	235	325	487,5	835	68%	100%
6S	840	H604-200	195	200	300	645	59%	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	2475	H653-4 large	435	500	750	2040	48%	100%
3S	1870	H653-4 large	435	500	750	1435	63%	100%
4S	1395	H653-4 large	395	350	525	1000	66%	100%
5S	1070	H653-4 small	250	240	360	820	57%	100%
6S	840	H653-4 small	235	180	270	605	60%	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	2475	H634-0,25	170	4000	2305	100%	58%
3S	1870	H634-0,25	170	4000	1700	100%	43%
4S	1395	H634-0,25	170	4000	1225	100%	31%
5S	1070	H634-0,25	170	4000	900	100%	23%
6S	840	H634-0,25	170	4000	670	100%	17%

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	2475	H332-850	245	2200	2230	99%	100%
3S	1870	H332-850	245	2200	1625	100%	74%
4S	1395	H332-850	245	2200	1150	100%	52%
5S	1070	H332-850	245	2200	825	100%	38%
6S	840	H332-850	245	2200	595	100%	27%

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	2475	H415 2000-500	155	2000	2320	87%	100%
3S	1870	H415 1500-500	135	1500	1735	87%	100%
4S	1395	H415 1500-500	135	1500	1260	100%	84%
5S	1070	H415 1500-500	135	1500	935	100%	62%
6S	840	H415 1500-500	135	1500	705	100%	47%

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