

USER MANUAL
918NG
TECHNICAL SHEET

D TECHNICAL SHEET



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918NG

TECHNICAL SHEET

D.1 CRANE'S TECHNICAL DATA

Versions			2S	3S	4S	5S	6S	3SJ3	
Max. net lifting moment		$t\ m$ kNm	15.7 154	15.3 150	14.8 145	14.4 141	14.0 138	14.0 138	
Max. dynamic moment		$daNm$ kNm	20070 201						20590 206
Capacity at min. hydraulic outreach	hook [S2]	kg	3395	3240	3090	2955	2830	1800	
	grab [S1]	kg	3395	3240	3090	2955	2830	N/A	
Max rated capacity	min. outreach	m	4.63	4.71	4.80	4.88	4.96	7.80	
Capacity at max. hydraulic outreach	hook [S2]	kg	1810	1350	1025	780	585	475	
	grab [S1]	kg	1810	1350	1025	780	585	N/A	
	max. outreach	m	8.53	10.66	12.80	15.03	17.26	18.30	
Capacity of 1st man. extension	capacity	kg	1350	1025	780	585	450	370	
	max. outreach	m	10.91	12.96	15.11	17.26	19.36	19.90	
Max. load height above the base for the last extension	hydraulic	m	10.8	13.0	15.1	17.4	19.6	20.5	
	manual	m	17.3	19.6	21.7	21.7	21.7	23.9	
Weight of crane without stabilizers		kg	1745	1875	1995	2105	2200	2365	
Weight of stabilizers	ST-M	kg	250						
	EX-M	kg	340						
	EX-H	kg	375						
	SE-H	kg	410						
Weight of 1st man ext.		kg	87	76	65	38	42	30/20	
Max. working pressure		bar	315						330
Max. oil flow rate		l/min	40						
		l/min	60						
Power needed		kW	27.3						28.6
		kW	40.9						42.9
Oil tank capacity		l	130						
Slewing angle		$^\circ$	425 $^\circ$						
Gross slewing torque		$daNm$ kNm	2170 21.7						
Max. base inclination		$^\circ$	4 $^\circ$						3 $^\circ$
		$^\circ$	3 $^\circ$						N/A
Max boom inclination for use with CE winch		$^\circ$	75 $^\circ$						N/A
Max. stabilizer force on the ground with stabilizers fully extended	ST	daN	10280						10545
	EX	daN	7860						8065
	SE	daN	6365						6530
Max. stabilizer pressure on the ground with stabilizers fully extended	ST	MPa	4.0						4.1
	EX	MPa	3.2						3.2
	SE	MPa	2.5						2.6
Lifting conversion factor, k	kgm/bar		61.79						
Distribution factor of dyn. moment on base, β	-		0.70						
Position of standard dead point (see D.6)									

USER MANUAL

918NG

TECHNICAL SHEET

D.2 WINCH SETTINGS

T11 - SINGLE LINE PULL

Versions		2S	3S	4S	5S	6S	3SJ3
	Max line pull <i>kg</i>	1000	1000	1000	1000	1000	N/A

T11 - DOUBLE LINE PULL

Versions		2S	3S	4S	5S	6S	3SJ3
	Max line pull <i>kg</i>	1000	1000	1000	1000 (*)	1000 (*)	N/A
Start angle - pull% Final angle - pull%		-	-	-	65°-80% 75°-80%	65°-75% 75°-75%	-

T12 - SINGLE LINE PULL

Versions		2S	3S	4S	5S	6S	3SJ3
	Max line pull <i>kg</i>	2000	2000	2000	2000 (*)	2000 (*)	N/A
Start angle - pull% Final angle - pull%		-	-	-	55°-65% 75°-60%	60°-60% 75°-55%	-

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
ST-M	1995	2125	2245	2355	2450	2615
EX-M	2085	2215	2335	2445	2540	2705
EX-H	2120	2250	2370	2480	2575	2740
SE-H	2155	2285	2405	2515	2610	2775

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

The weights may vary by ±3%

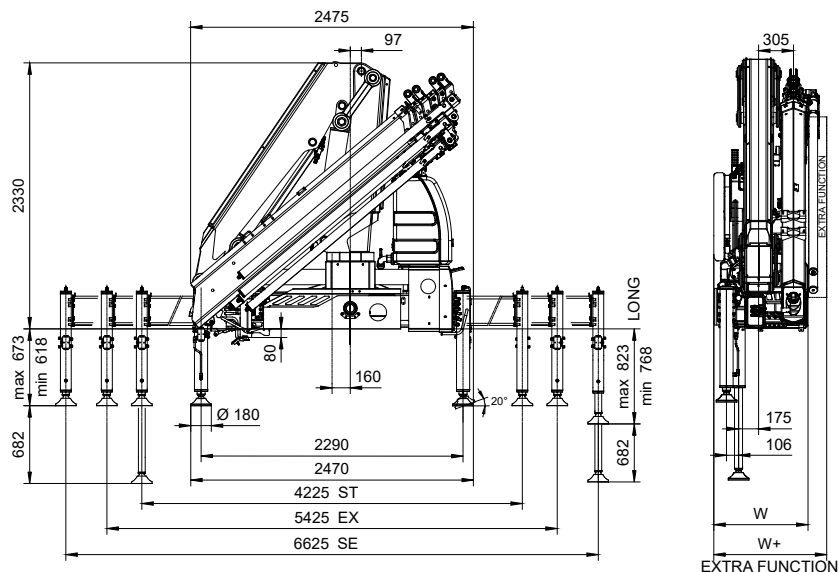
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918NG

TECHNICAL SHEET

D.4 OVERALL DIMENSIONS

FIXED STABILIZERS LEGS

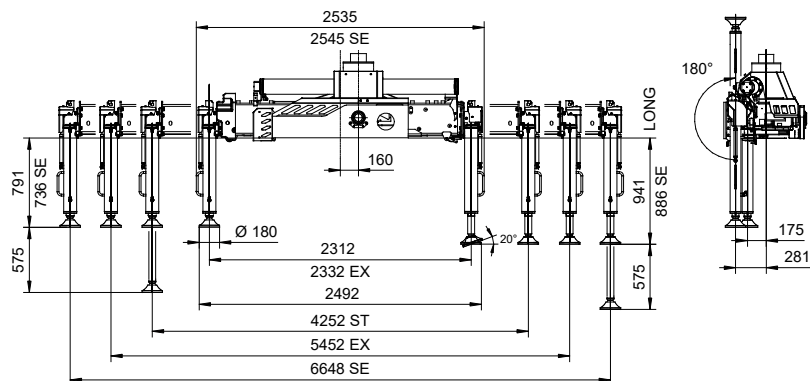


	2S	3S	4S	5S	6S
W (mm)	825	825	825	905	905
W+ (mm)	940 (*)	940 (*)	940 (*)	985 (**)	985 (**)

(*) activations with slides

(**) activations with hose reel

TURNING STABILIZERS LEGS



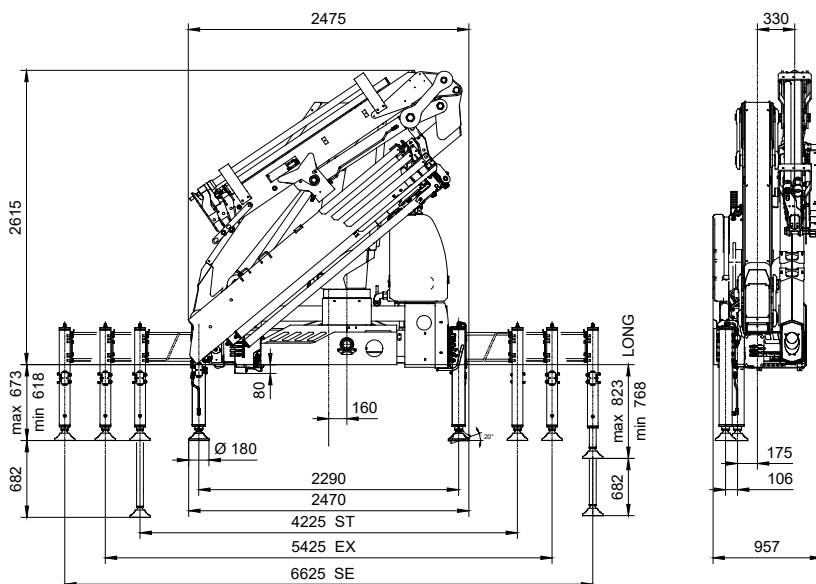
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918NG

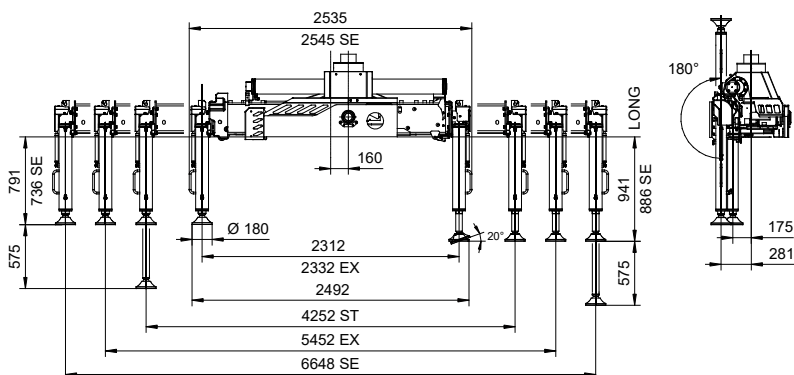
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OVERALL DIMENSIONS 3SJ3

FIXED STABILIZERS LEGS

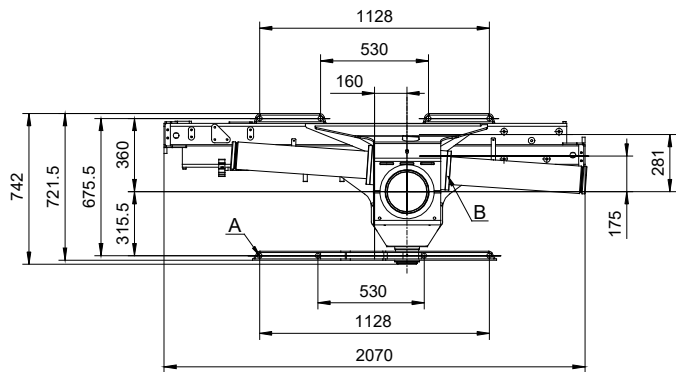


TURNING STABILIZERS LEGS



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D.5 BASE DIMENSIONS AND MOUNTING BOLTS

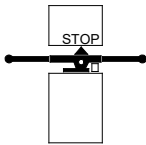
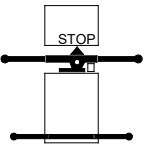
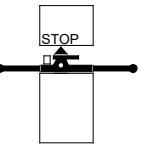
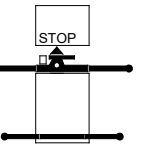
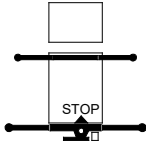
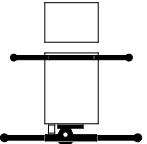
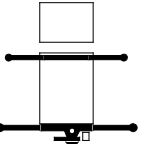
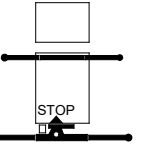
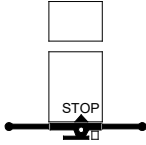
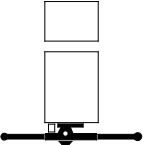
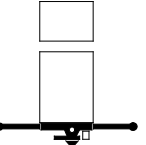
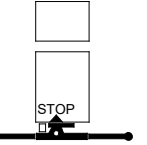
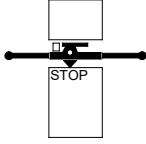
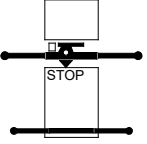
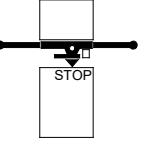
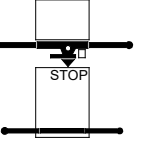


Ref.	Description	Q.ty	Material Grade	Size	Tightening torque
A	Kit with 8 crane mounting bolts	8	42CrMo4+QT EN 10083-3	M24x2 L=1100	400 Nm
	Kit with 4 crane mounting bolts	4	42CrMo4+QT EN 10083-3	M30x2 L=600	700 Nm
B	Fixing bolts for each slewing cylinder	10	8.8	M14x2 L=65	80 Nm

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918NG
TECHNICAL SHEET

D.6 INSTALLATION TYPE NUMBER

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

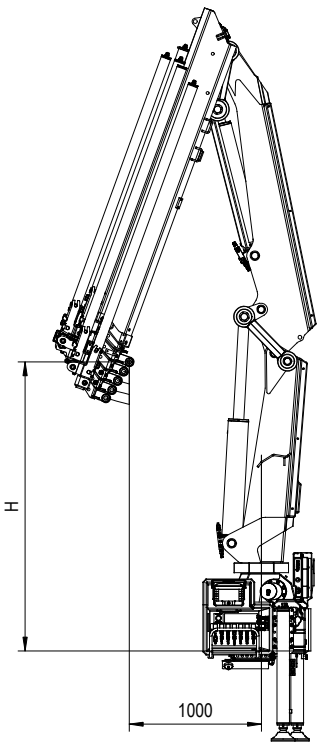
OPPOSITE DEAD POINT		STANDARD DEAD POINT	
1	2	3	4
			
5	6	7	8
			
9	10	11	12
			
13	14	15	16
			

Legend:

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

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TECHNICAL SHEET

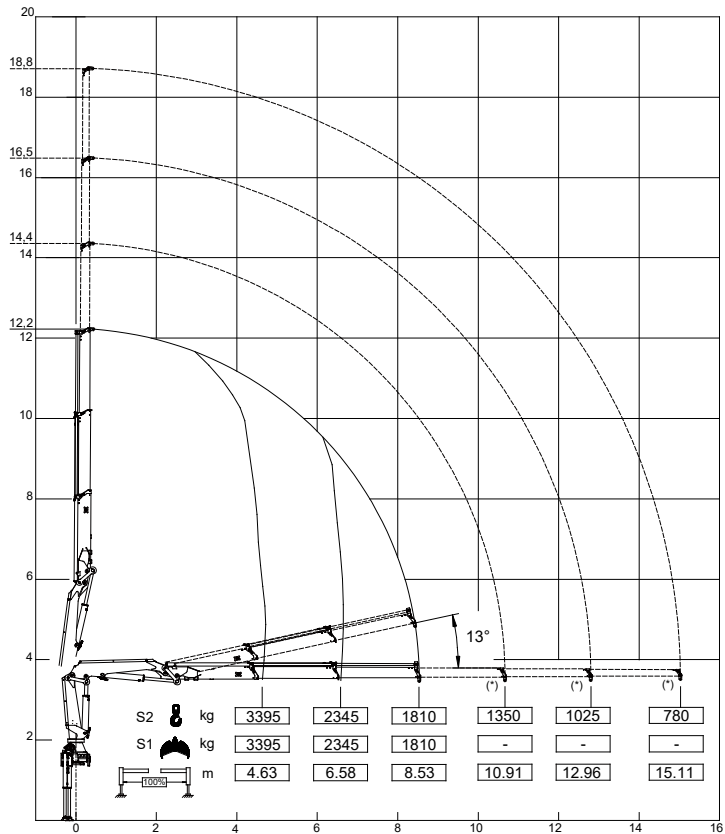
D.7 LIFTING HEIGHT CLOSE TO THE COLUMN



Version	H mm
2S	2192
3S	2109
4S	2025
5S	1945
6S	1870

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918NG
TECHNICAL SHEET

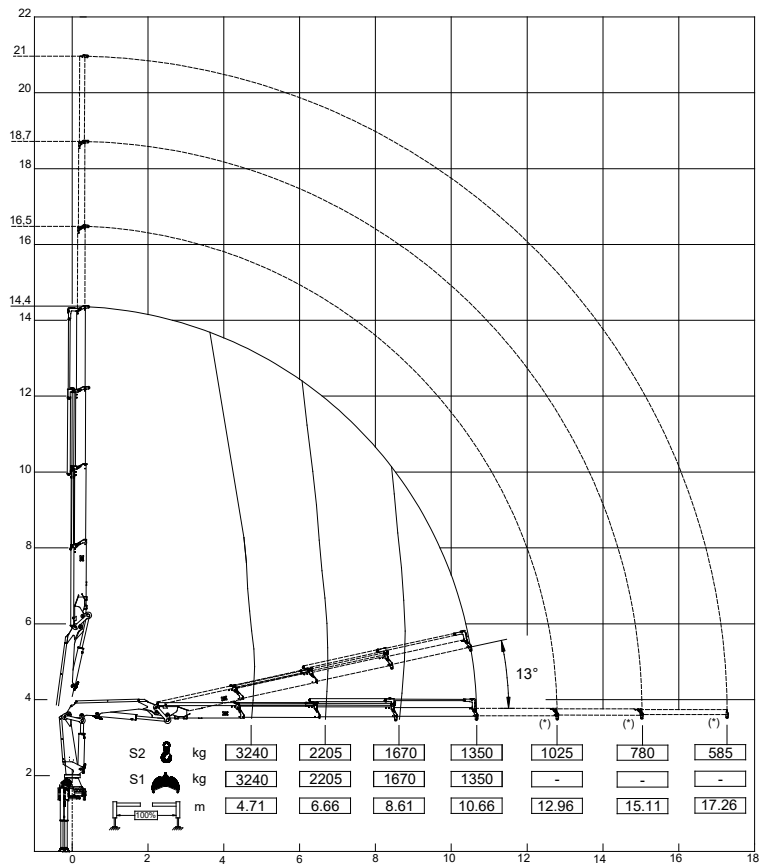
D.8 LOAD CHARTS FOR USE WITH HOOK/TOOL
918NG 2S



(*) 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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TECHNICAL SHEET

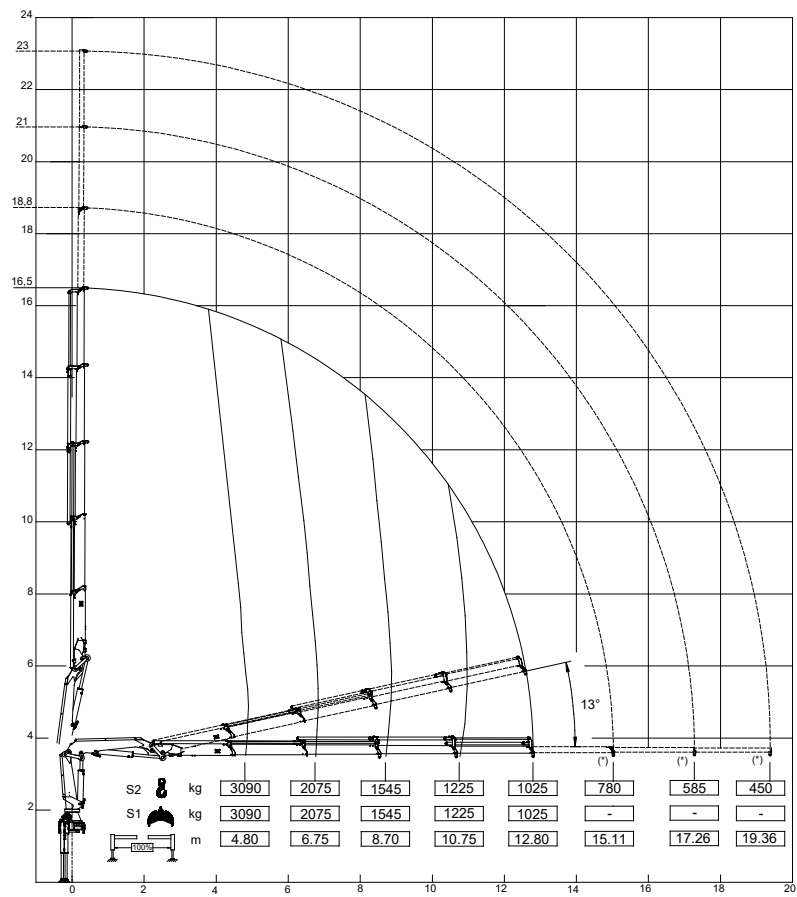
LOAD CHARTS FOR USE WITH HOOK/TOOL
918NG 3S



(*) 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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918NG
TECHNICAL SHEET

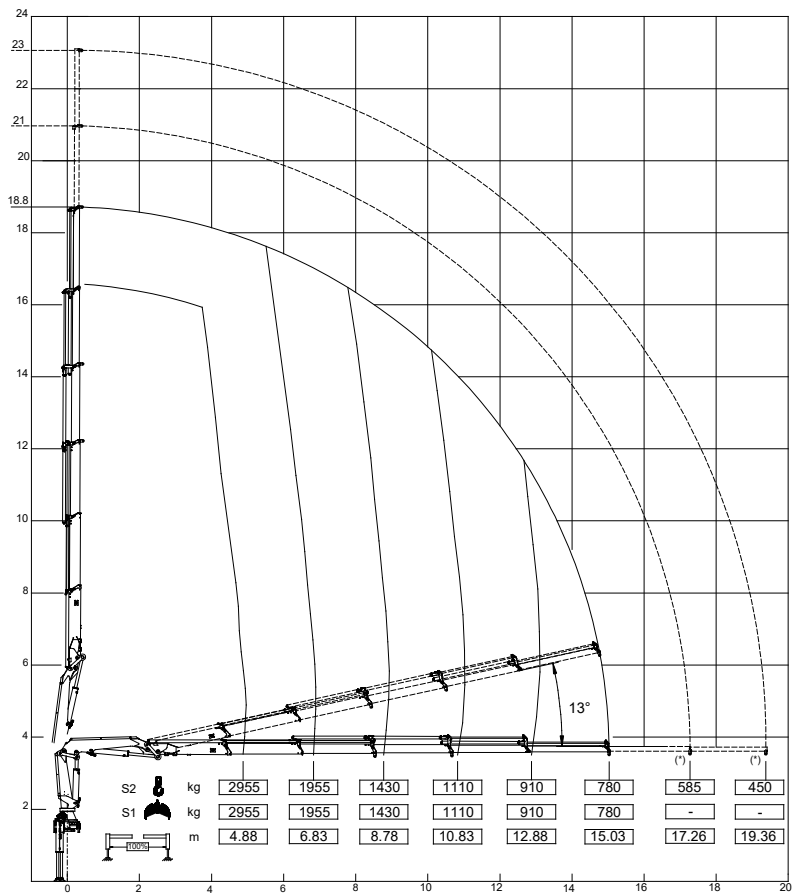
LOAD CHARTS FOR USE WITH HOOK/TOOL
918NG 4S



(*) 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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918NG
TECHNICAL SHEET

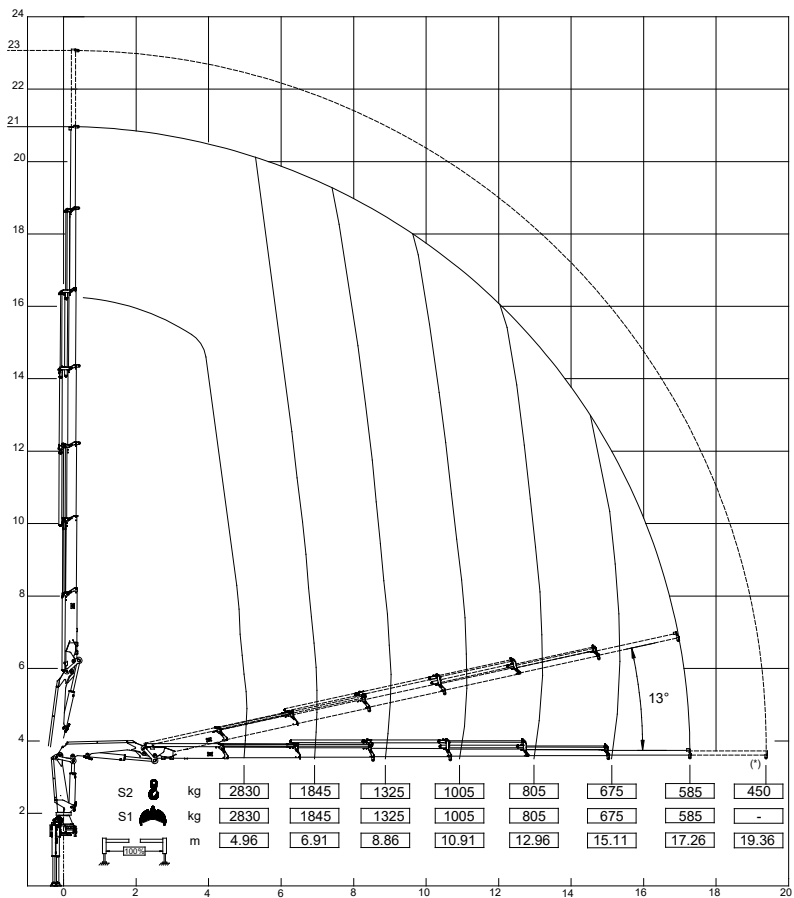
LOAD CHARTS FOR USE WITH HOOK/TOOL
918NG 5S



(*) 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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918NG
TECHNICAL SHEET

LOAD CHARTS FOR USE WITH HOOK/TOOL
918NG 6S



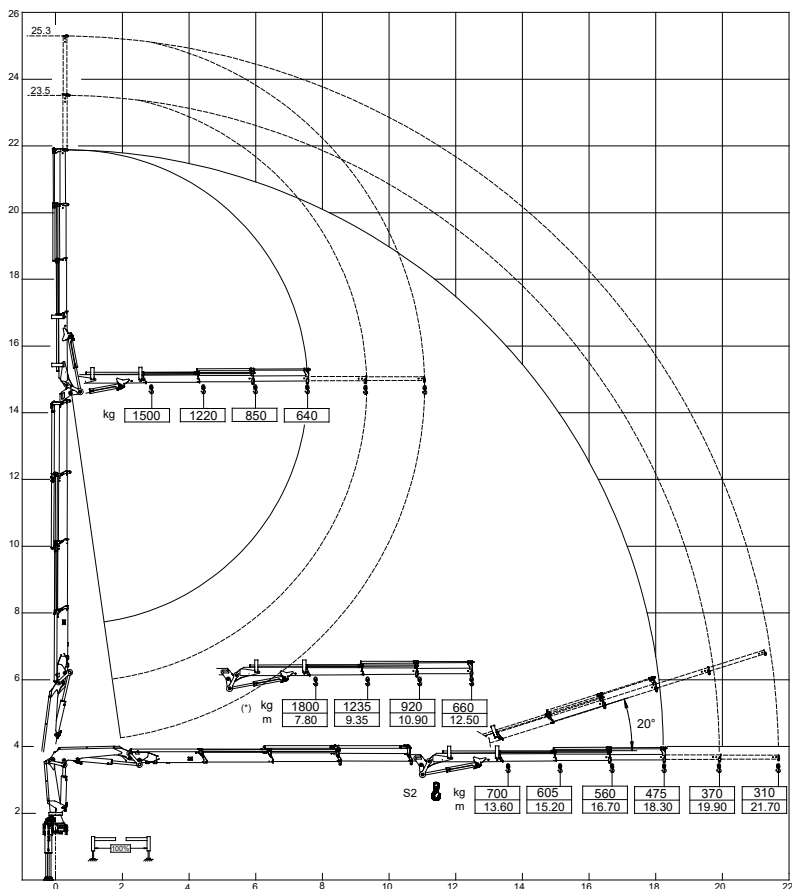
(*) Manual extensions (optional): these cannot lift additional hydraulic tools
If an additional lifting tool is mounted, the rated capacities shall be reduced by the tool's weight

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LOAD CHARTS FOR USE WITH HOOK 918NG 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.

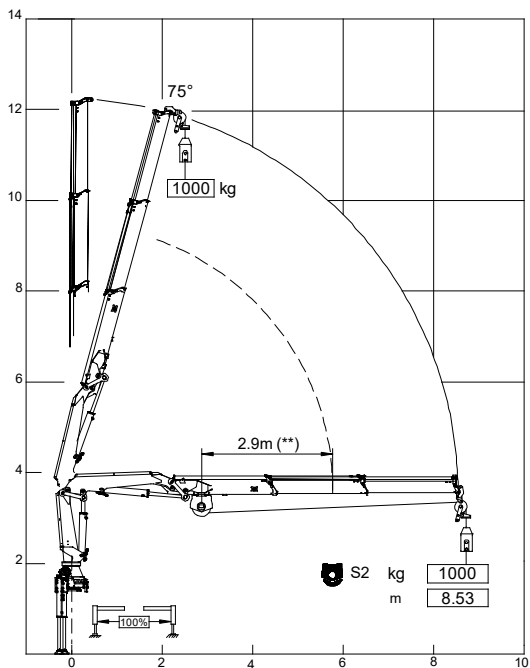
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TECHNICAL SHEET

D.9 LOAD CHARTS FOR T11 WINCH IN SINGLE LINE

918NG 2S + T11 SINGLE LINE



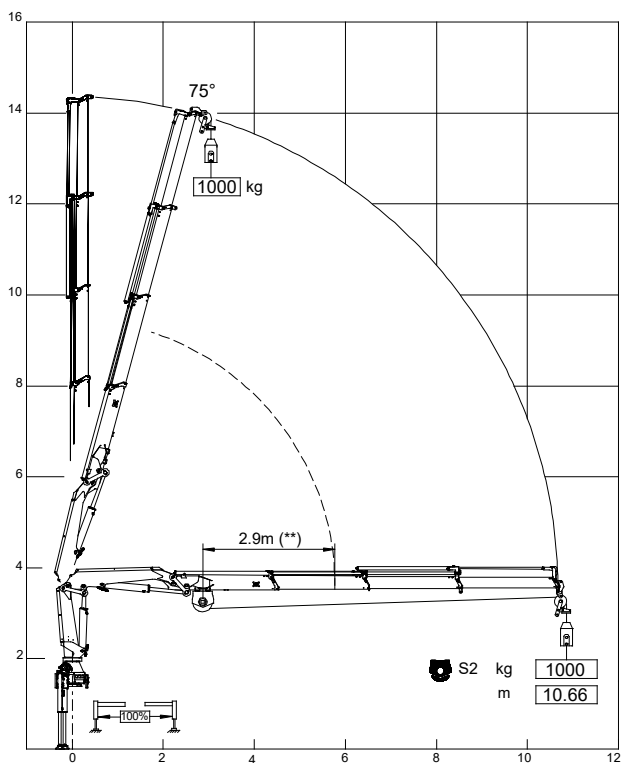
(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

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TECHNICAL SHEET

LOAD CHART FOR WINCH T11 IN SINGLE LINE 918NG 3S + T11 SINGLE LINE



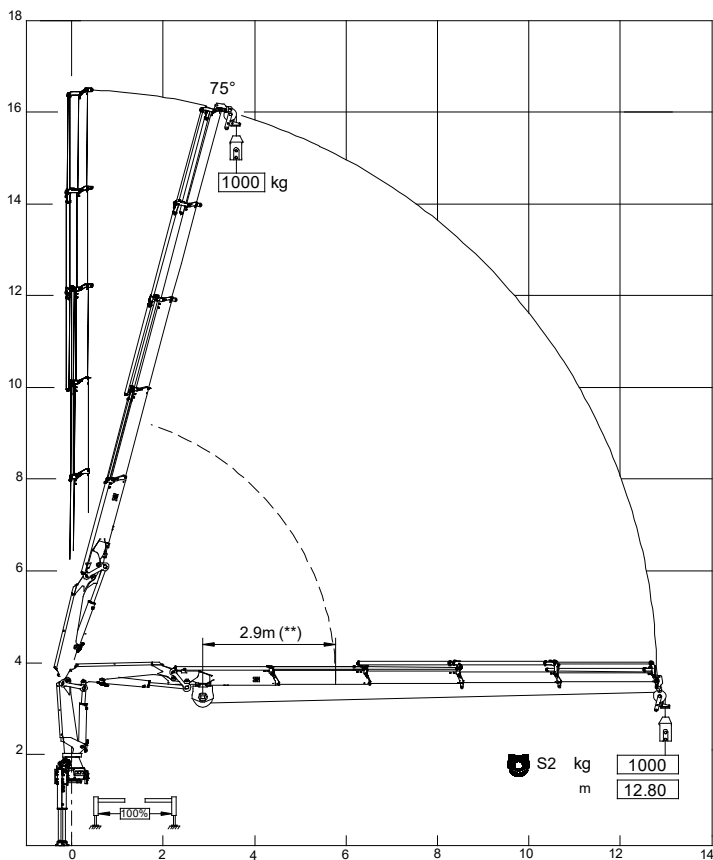
(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

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918NG

TECHNICAL SHEET

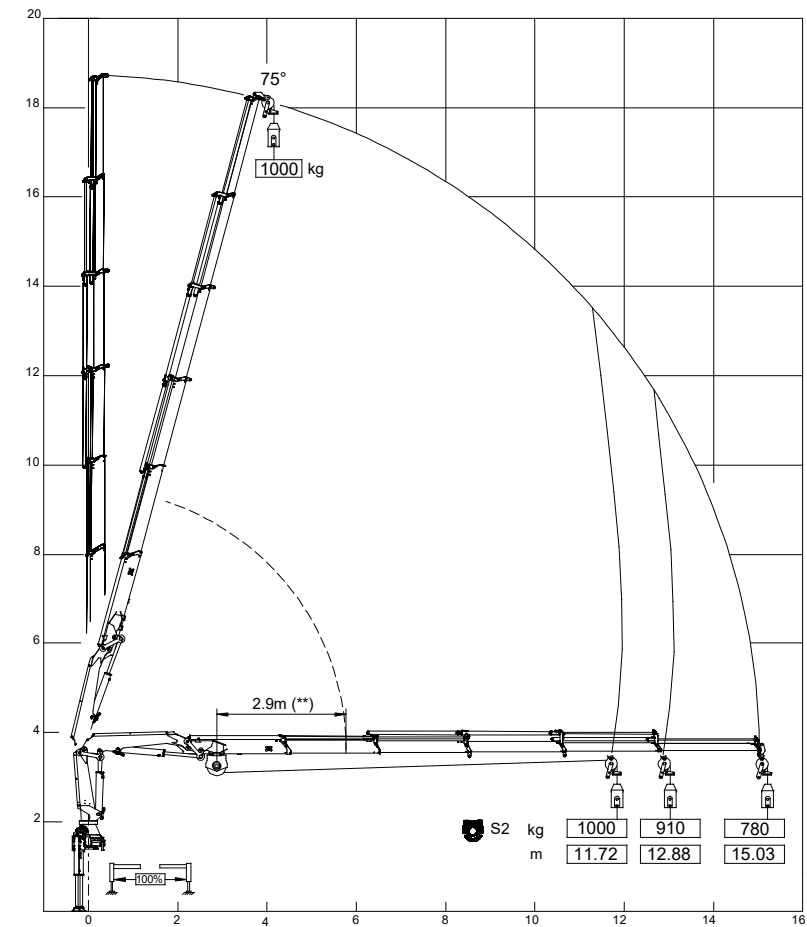
LOAD CHART FOR WINCH T11 IN SINGLE LINE 918NG 4S + T11 SINGLE LINE



(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

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TECHNICAL SHEET

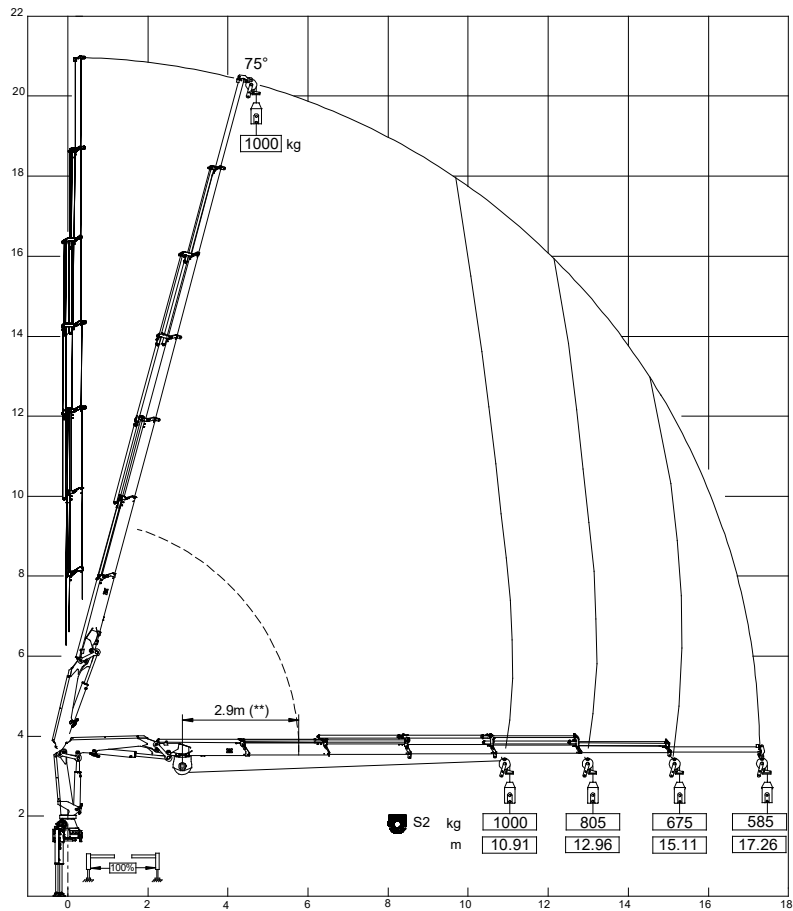
LOAD CHART FOR WINCH T11 IN SINGLE LINE
918NG 5S + T11 SINGLE LINE



(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

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918NG
TECHNICAL SHEET

LOAD CHART FOR WINCH T11 IN SINGLE LINE
918NG 6S + T11 SINGLE LINE



(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

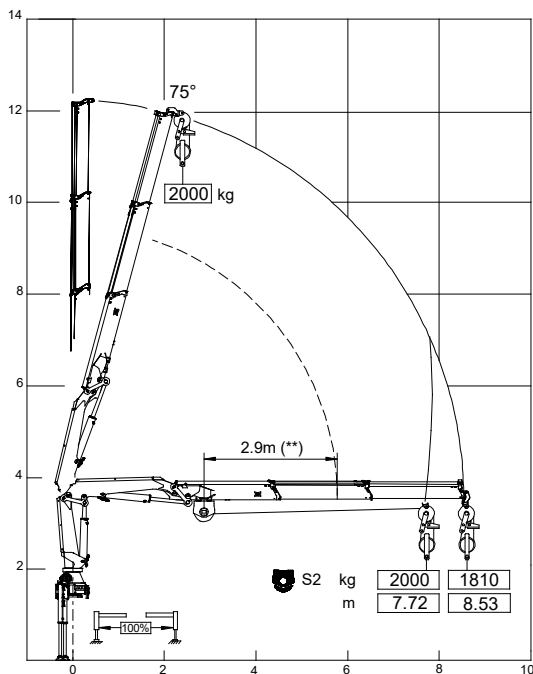
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D.10 LOAD CHARTS FOR T11 WINCH IN DOUBLE LINE

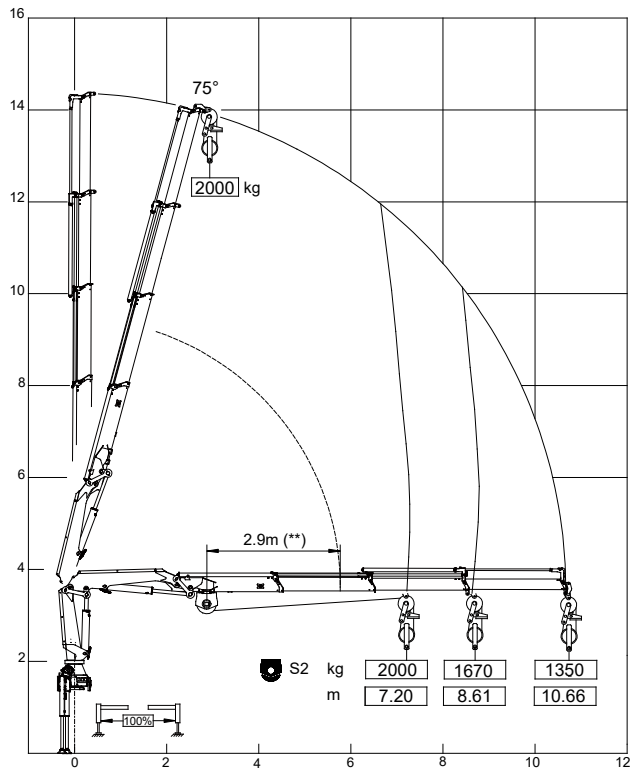
918NG 2S + T11 DOUBLE LINE



(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

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918NG
TECHNICAL SHEET

LOAD CHART FOR WINCH T11 IN DOUBLE LINE
918NG 3S + T11 DOUBLE LINE



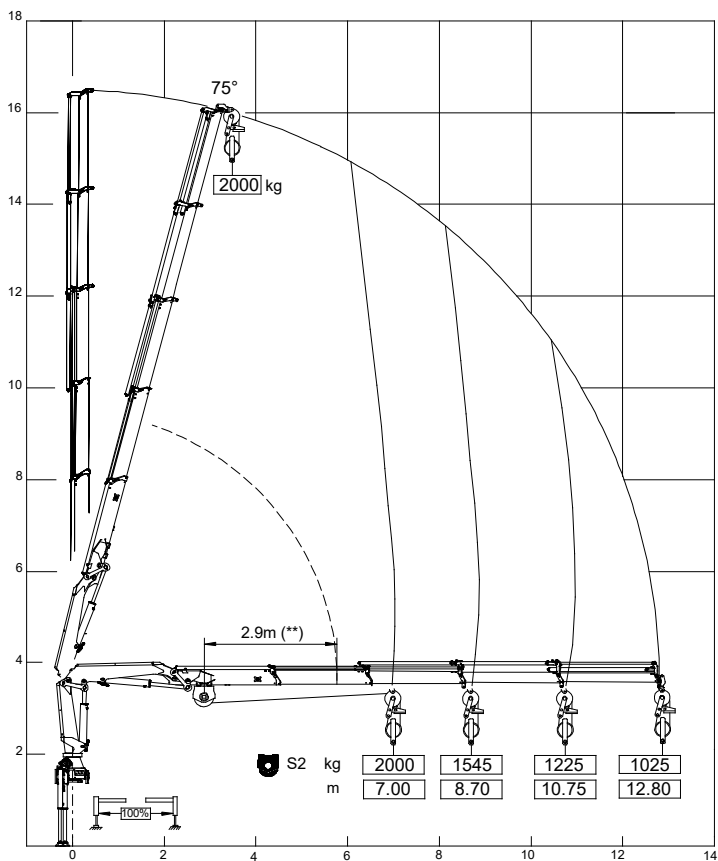
(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

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918NG

TECHNICAL SHEET

LOAD CHART FOR WINCH T11 IN DOUBLE LINE 918NG 4S + T11 DOUBLE LINE



(**) Minimum distance winch - pulley
Winch max. pull: 1000 kg

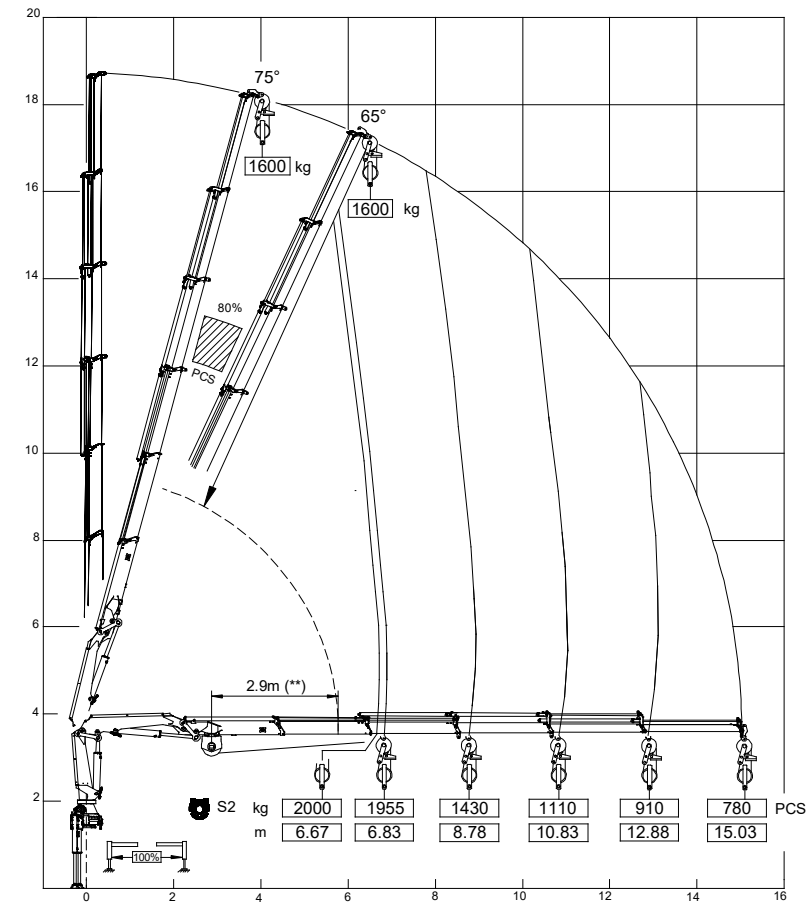
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918NG

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LOAD CHART FOR WINCH T11 IN DOUBLE LINE

918NG 5S + T11 DOUBLE LINE



(**) Minimum distance winch - pulley

Winch max. pull with PCS: 1000 kg

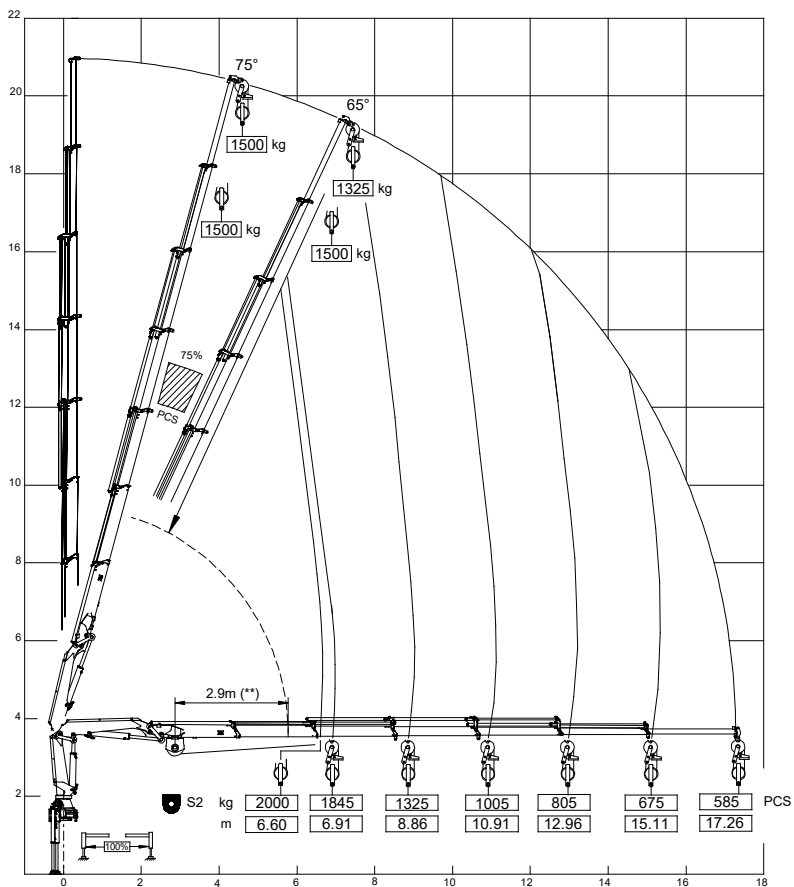
PCS: Pull Control System, present on CE/TOP cranes

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918NG

TECHNICAL SHEET

LOAD CHART FOR WINCH T11 IN DOUBLE LINE 918NG 6S + T11 DOUBLE LINE



(**) Minimum distance winch - pulley
Winch max. pull with PCS: 1000 kg
PCS: Pull Control System, present on CE/TOP cranes

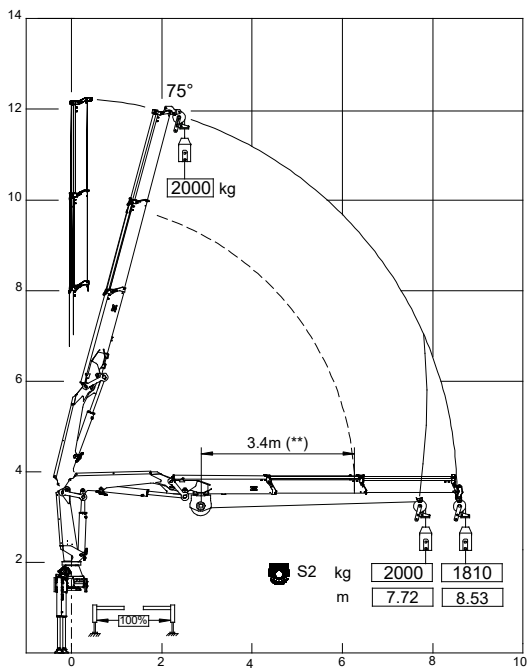
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918NG

TECHNICAL SHEET

D.11 LOAD CHARTS FOR T12 WINCH IN SINGLE LINE

918NG 2S + T12 SINGLE LINE



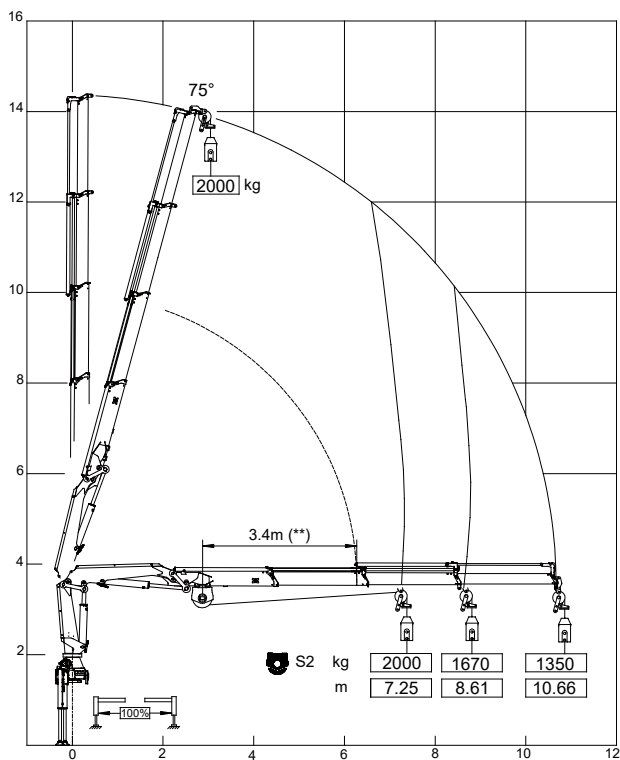
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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918NG

TECHNICAL SHEET

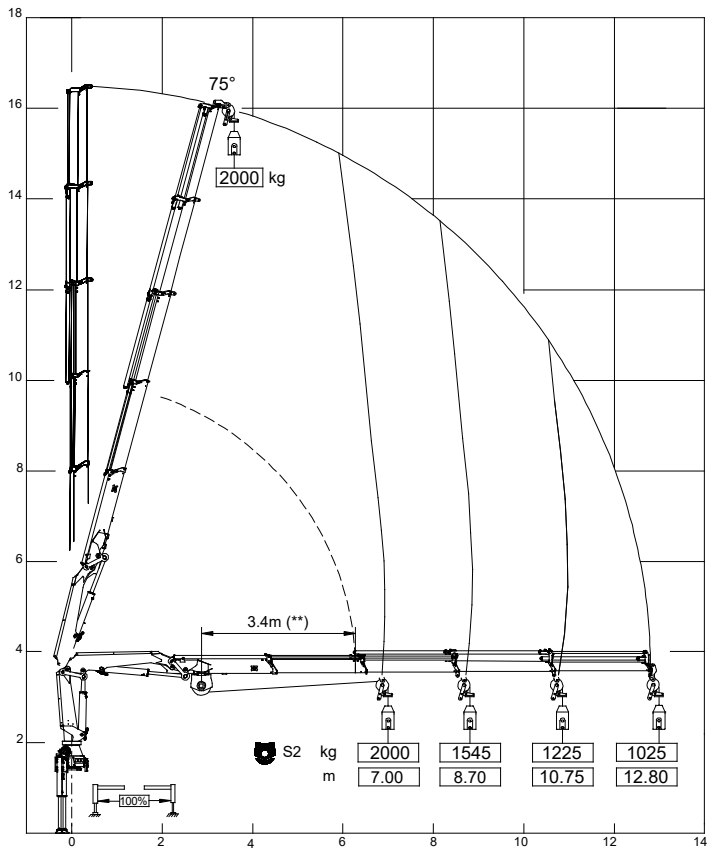
LOAD CHART FOR WINCH T12 IN SINGLE LINE 918NG 3S + T12 SINGLE LINE



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

USER MANUAL
918NG
TECHNICAL SHEET

LOAD CHART FOR WINCH T12 IN SINGLE LINE
918NG 4S + T12 SINGLE LINE



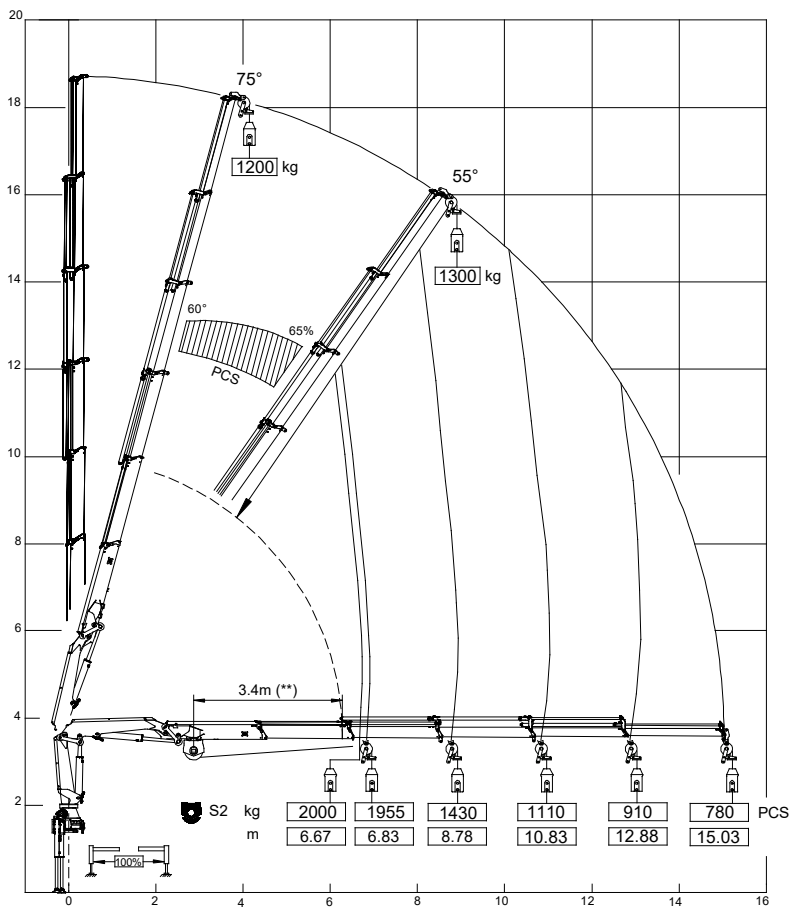
(**) Minimum distance winch - pulley
Winch max. pull: 2000 kg

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918NG

TECHNICAL SHEET

LOAD CHART FOR WINCH T12 IN SINGLE LINE 918NG 5S + T12 SINGLE LINE



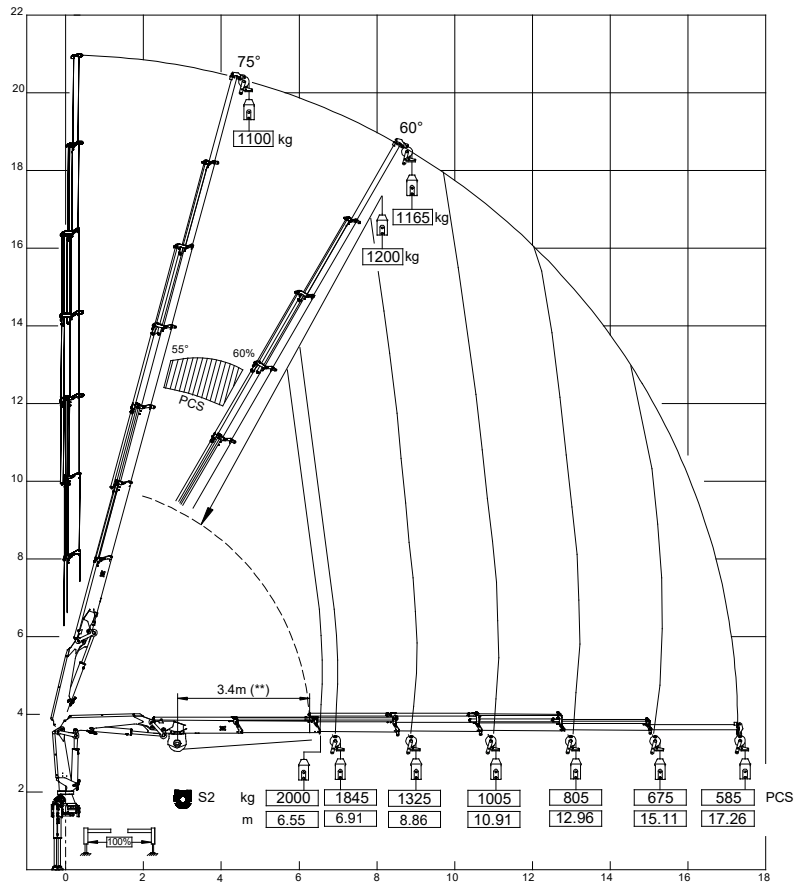
(**) Minimum distance winch - pulley

Winch max. pull with PCS: 2000 kg

PCS: Pull Control System, present on CE/TOP cranes

USER MANUAL
918NG
TECHNICAL SHEET

LOAD CHART FOR WINCH T12 IN SINGLE LINE
918NG 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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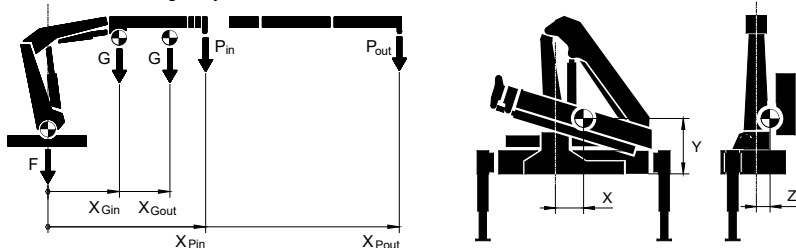
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TECHNICAL SHEET

D.12 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 = additional test load, to be hooked to the last hydraulic extension excluding jib boom

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

918NG	F kg	G kg	X_G in / out m	P in / out kg	X_P in / out m	TL (TL2) kg	X	Y	Z
2S	ST-M : 1225 EX-M : 1315 EX-H : 1350 SE-H : 1385	770	2.48 3.48	3395 1810	4.63 8.53	2263	210	715	8
3S		900	2.62 4.30	3240 1350	4.71 10.66	1693	205	740	27
4S		1020	2.73 5.12	3090 1025	4.80 12.80	1312	197	760	40
5S		1130	2.82 5.91	2955 780	4.88 15.03	1025	190	780	54
6S		1225	2.90 6.69	2830 585	4.96 17.26	797	183	797	65
3SJ3		1390	6.87 7.28	700 475	13.60 18.30	594 (149)	180	977	86

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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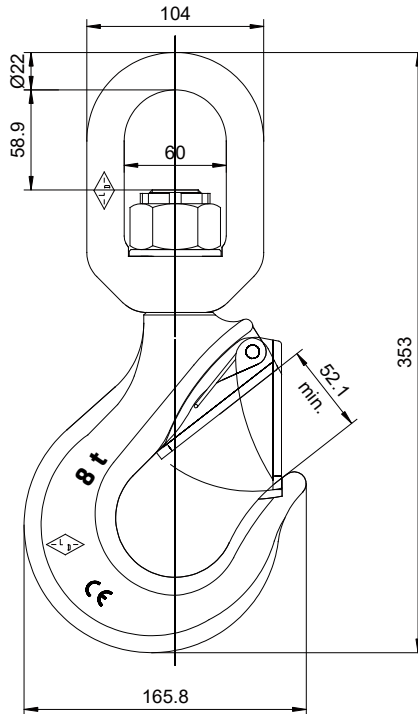
918NG

TECHNICAL SHEET

D.13 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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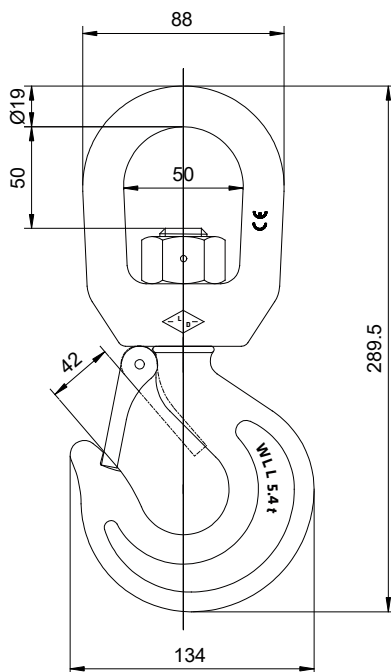
918NG

TECHNICAL SHEET

HOOK DATA

HOOK MOUNTED ON JIB BOOM
VERSION: 3SJ3

DIMENSIONS



TECHNICAL PROPERTIES

Working load limit (WLL) : 5400 kg

Material: alloy steel

Weight: 3.2 kg

Swivel hook

Reference standard: DIN 15401

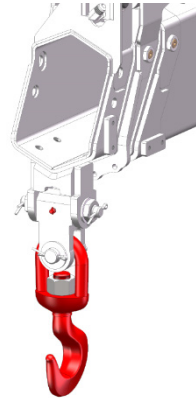
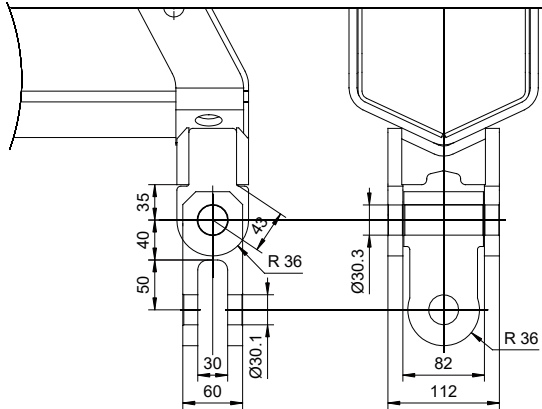
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TECHNICAL SHEET

D.14 LOAD ATTACHMENT

ATTACHMENT FOR HOOK AND LIFTING TOOL



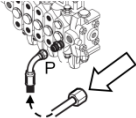
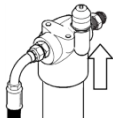
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918NG

TECHNICAL SHEET

D.15 HYDRAULIC SYSTEM

FITTINGS FOR CONNECTION TO PUMP

918NG	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

918NG	Extension time s	Retraction time s
Slewing (180°)	20	20
1.boom cylinder	17	30
2.boom cylinder	15	10
boom extension 1S (SGS active)	5	7
boom extension 2S (SGS active)	10	13
boom extension 3S (SGS active)	15	19
boom extension 4S (SGSS active)	20	25
boom extension 5S (SGS active)	25	31
boom extension 6S (SGS active)	30	37
jib articulation cylinder	20	21
jib extension 3S	24	40

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.

918NG	Time interval min.	Max. load descent mm
2S	10	426
3S	10	533
4S	10	256
5S	10	300
6S	10	345
3SJ3	10	366

USER MANUAL

918NG

TECHNICAL SHEET

CAPACITY OF HYDRAULIC SYSTEM

918NG	Cylinders extended ℓ	Cylinders retracted ℓ
2S	67	46
3S	74	51
4S	82	56
5S	90	62
6S	98	67
3SJ3	95	64

Capacities do not include the oil tank.

ADDITIONAL CAPACITY FOR HYDRAULICALLY OPERATED STABILIZER EXTENSIONS

EX-H	+4.0	+2.5
SE-H	+5.5	+3.5

USER MANUAL

918NG

TECHNICAL SHEET

D.16 OIL COOLER



TECHNICAL SPECIFICATIONS

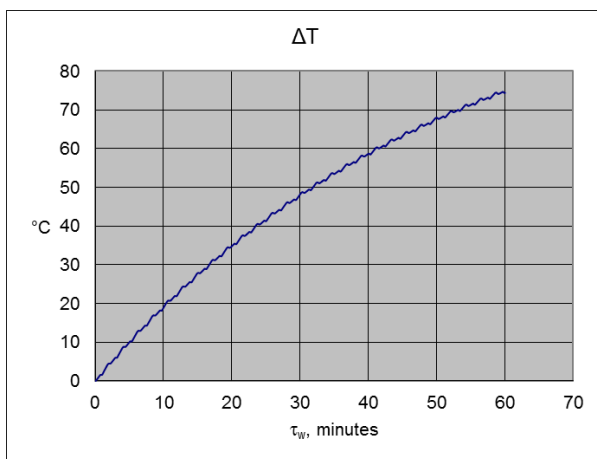
Heat transfer coefficient: 235 W/K (oil flow rate of 40 l/min)

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

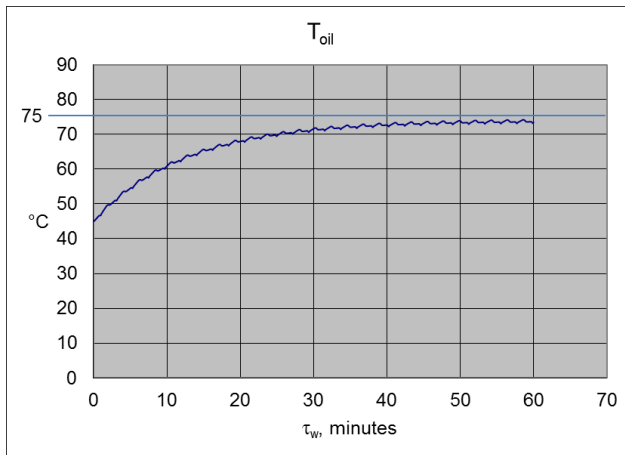
918NG

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)
45	no limit
48	35
50	25
52	20
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)

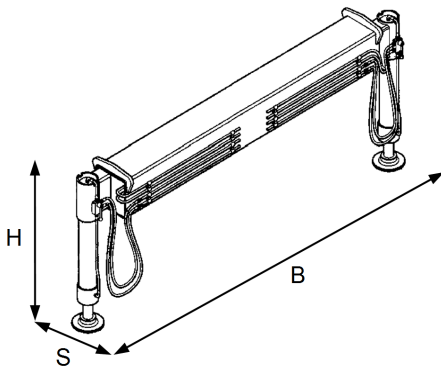
The calculation of the oil temperature is purely indicative and depending on several variables (e.g. working cycle, wind, humidity, weather, etc.)

USER MANUAL

918NG

TECHNICAL SHEET

D.17 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:

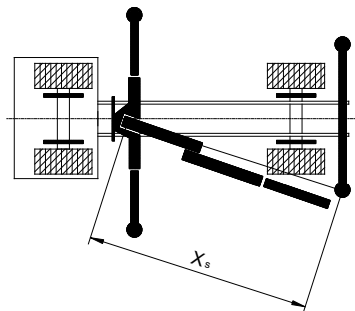
M_{dyn} : max. dynamic moment of the crane

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)
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.

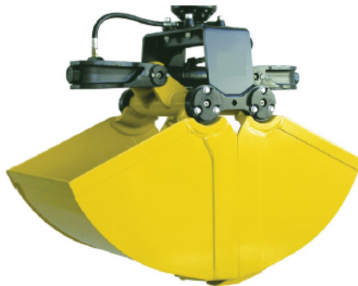
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918NG

TECHNICAL SHEET

D.18 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	1810	H605-650	410	650	975	1400	77%	100%
3S	1350	H605-650	410	650	975	940	100%	96%
		H605-550	375	550	825	975	89%	100%
4S	1025	H605-450	340	450	675	685	99%	100%
		H604-350	240	350	525	785	75%	100%
5S	780	H604-325	235	325	487,5	545	93%	100%
		H604-250	220	250	375	560	76%	100%
6S	585	H604-200	195	200	300	390	85%	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

918NG

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	1810	H653-4 large	435	500	750	1375	65%	100%
3S	1350	H653-4 large	435	500	750	915	88%	100%
4S	1025	H653-4 large	395	350	525	630	90%	100%
5S	780	H653-4 small	250	240	360	530	78%	100%
6S	585	H653-4 small	235	180	270	350	86%	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
918NG
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	1810	H634-0,25	170	4000	1640	100%	41%
3S	1350	H634-0,25	170	4000	1180	100%	30%
4S	1025	H634-0,25	170	4000	855	100%	21%
5S	780	H634-0,25	170	4000	610	100%	15%
6S	585	H634-0,25	170	4000	415	100%	10%

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

918NG

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	1810	H332-850	245	2200	1565	100%	71%
3S	1350	H332-850	245	2200	1105	100%	50%
4S	1025	H332-850	245	2200	780	100%	35%
5S	780	H332-850	245	2200	535	100%	24%
6S	585	H332-850	245	2200	340	100%	15%

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

918NG

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	1810	H415 2000-500	155	2000	1655	100%	83%
3S	1350	H415 1500-500	135	1500	1215	100%	81%
4S	1025	H415 1500-500	135	1500	890	100%	59%
5S	780	H415 1500-500	135	1500	645	100%	43%
6S	585	H415 1500-500	135	1500	450	100%	30%

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