



# MCLEOD



cranes



hiabs



transport



atf/storage

# RATING CHARTS

# EXPERIENCE COUNTS



*"It's a business doing pleasure with you."*

Curly McLeod

**Safety first.  
McLeod first.**

The first choice in the region.  
Unmatched in safety.

**MCLEOD**



ITEM	UNIT	ITEM	UNIT
ACROSS	STANDARD	ACROSS	NACELLE LG
LIFT CAPACITY	STANDARD	LIFT CAPACITY	STANDARD
MAX. ROOM	8.2	MAX. ROOM	8.2
LATICE EXTENSION (REF)	30	LATICE EXTENSION (REF)	30
OUTERMOST TRACKS (REF)	8.7 x 8.5	OUTERMOST TRACKS (REF)	8.7 x 8.5
MAIN COUNTERWEIGHT	25.5	MAIN COUNTERWEIGHT	25.5
CARDIOY COUNTERWEIGHT	17	CARDIOY COUNTERWEIGHT	17
WIND	19.5	WIND	19.5
CAPACITY	20.75	CAPACITY	17.00
GUARDRAIL (with rail)	17.00	GUARDRAIL (with rail)	17.00
	17.00		17.00
MAIN HOOR HEIGHT	8.00	MAIN HOOR HEIGHT	8.00
ALU HOOR HEIGHT	8.00	ALU HOOR HEIGHT	8.00
ROOFING	0.05	ROOFING	0.05
WINDLIFT HEIGHT	20.00	WINDLIFT HEIGHT	20.00
WINDLIFT WINDING	0.00	WINDLIFT WINDING	0.00
WINDLIFT HEIGHT	20.00	WINDLIFT HEIGHT	20.00
PERCENTAGE OF WIND	85	PERCENTAGE OF WIND	85
TRACK BEARING PRESSURE	100	TRACK BEARING PRESSURE	100
WIND SPEED (m/s)	0.0	WIND SPEED (m/s)	0.0
LONG SLURFAGE AREA	1.75	LONG SLURFAGE AREA	1.75
LONG FACTOR (m/s)	1.1	LONG FACTOR (m/s)	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
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WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1
WINDLIFT PERFORMANCE	1.1	WINDLIFT PERFORMANCE	1.1

**PLAN VIEW**  
Showing in location  
Not to scale

**END VIEW**  
Showing in location  
Not to scale

**ISOMETRIC VIEW**  
Showing in location  
Not to scale

**McLEOD**  
Wind Farm Crane Services

**APPROVED**

Meridian Energy Limited  
1% Appl - Wind Farm Crane L&B Services, T&P

WINDLIFT PERFORMANCE

# Exceeding customer expectations

## McLeod Cranes, Hiabs and Transport

### Our Story

Founded in 1996 by Curly McLeod, a character known for his down-to-earth philosophy, McLeod has grown into one of New Zealand's largest and most modern crane fleets. From one crane parked across Curly's home in Maungatapu to over 180 talented people and 80 cranes and hiabs, McLeod continues to honor Curly's legacy of hard work and good-natured camaraderie.

Today, McLeod is in the capable hands of Curly's sons, Scott and Pete, and his cousin Phil Hutchinson. Each contributes their unique expertise:

**Scott McLeod:** With a diverse background in crane operation, computer programming, and ex-RNZN, Scott led McLeod to national awards and recognitions, embodying his passion for safety and industry leadership.

**Pete McLeod:** As a professional Structural Engineer and Installation Engineer on board the Saipem 7000, Pete's experience provides invaluable insights into lifting equipment and procedures, particularly in drilling rig logistics.

**Phil Hutchinson:** Phil's industry knowledge in truck & trailer rental and transport management fortifies McLeod's commitment to customer satisfaction and getting the job done right.

### Services We Provide

At McLeod, we offer industry-leading services tailored to meet all your project needs:

- **Cranes & Hiabs:** Wide selection for all your lifting and shifting needs across the Bay of Plenty and Waikato regions.
- **Precast Placement:** Specialized in placing and standing pre-cast concrete panels.
- **Transport:** Range of transport options, including Quad Axle Flat Decks, Trombone Trailers, and more.
- **Approved Transitional Facility (ATF):** Our Tauranga Team offers storage and delivery of products.
- **Drilling Rig Logistics:** Comprehensive logistics for moving drilling rigs across New Zealand.

### Quality Assurance

- **Health & Safety:** Our comprehensive policies and constant updates ensure we stay at the forefront of Health & Safety developments.
- **Industry Leading Systems:** Electronic work management, like the V-Works system, guarantees efficient, accurate, and safe lifts and transport.
- **Environmental Commitment:** A Toitu enviromark gold certified facility, with a recycling programme and 90% reduction in paper use.
- **Community Support:** McLeod continues to support the Bay of Plenty and Waikato communities through various sponsorships, embodying Curly's characteristic passion for community.

# Our people make the difference

## Engineering

At McLeod, our in-house engineering team excels in various facets of engineering. Our expertise includes:

- **Professional Lift Studies:** Assessing and planning lifts, with attention to detail for specific client requirements.
- **Clearance Assessment:** Evaluating tight site conditions to ensure a smooth operation.
- **Comprehensive Crane Management:** Supporting builders and property developers from prefeasibility estimates through layout planning, erection and dismantle planning, equipment sourcing, and contract negotiation.

## Rates

Our competitive rates are designed to suit various client needs. Key features include:

- **Quotes:** Available on request.
- **Discounts:** Offered for hire duration (long term hire) and volume of work.
- **Loyalty Programmes:** Points are provided through Team Local and Smart Trade.

## Depots

Our depots are strategically located in:

- Tauranga
- Hamilton
- Taupo
- Kinleith / Tasman Mills - Onsite crane available on request

Please note that a relocation fee may apply, as not all cranes and equipment are based at every depot.

## Health and Safety

At McLeod, our commitment to Health & Safety is widely acknowledged, evidenced by:

- **Awards:** Winners at the NZ Safety Awards in 2012 and 2015.
- **Finalist:** In 2013 and 2014.
- **Lift Plans:** Offering Lift Plans, SSSP, or Advanced Lift Plans on request.

# Lifting from **a to b** safely and cost effectively

## Insurance

Our comprehensive insurance coverage includes:

- Public Liability: \$10,000,000.00
- 3rd Party Liability: \$10,000,000.00
- Goods on Hook: \$1,000,000.00
- Carriers and Transit Liability (Contract and Commercial Law Act 2017)
- Full Motor Vehicle Insurance

## Professional Body Membership

We are proud members of:

- Crane Association of New Zealand Inc.
- New Zealand Heavy Haulage Association
- National Road Carriers

## Specific Services

- » Crane Hire
- » Mini Cranes
- » Tracked Carriers
- » Mobile Cranes
- » Crawler Cranes
- » Self Erecting Cranes
- » Tower Cranes
- » Hiab Transport
- » Truck and Trailer
- » Long Reach Hiabs
- » Heavy Lift Hiabs
- » Standard Reach Hiabs
- » 4x4 Hiabs
- » Transport and ATF
- » General and Overdimensional Transport
- » Approved Transitional Facility (ATF)
- » Devanning and Storage Service
- » Drilling Rig Logistics
- » Precast Concrete Placement

Please feel free to reach out to us for any inquiries or to book our services. At McLeod, we are dedicated to meeting all of your project needs with professionalism and excellence.

## Contact Us

For a successful project, your communication with us is key.

- Phone: 0508 625 363 (McLeod)
- Email: [cranes@mcleod.nz](mailto:cranes@mcleod.nz) | [hiabs@mcleod.nz](mailto:hiabs@mcleod.nz) | [transport@mcleod.nz](mailto:transport@mcleod.nz)



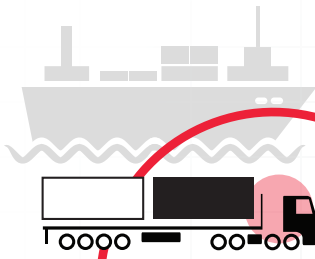
# From collection to installation we have you covered.

Bay of Plenty • Waikato • Central Plateau  
Tauranga - Taupo - Hamilton - Tokoroa - Kawerau



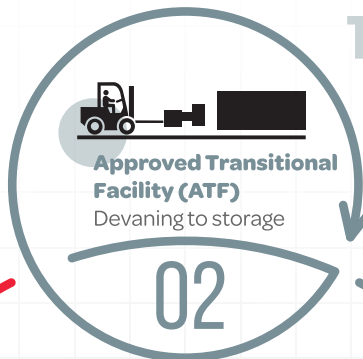
## Transport

- Flat decks, Hiabs
- Project cargo
- Drilling Rigs



**TRANSPORT**  
McLeod Transport  
Provide a ship  
to ATF or Yard  
service.

01



## Transitional Facility

- Approved handlers
- Devaning (forklift / crane)
- Project management



# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

Call: 0508 MCLEOD



## Storage

- Containers
- Equipment
- Pallets

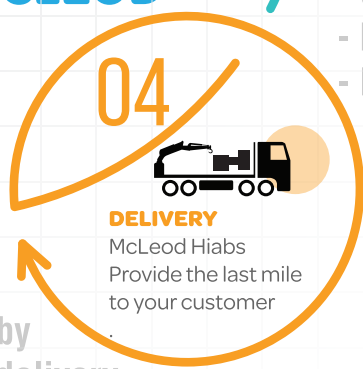
## Cranes

- Pre-cast Panels
- Pick and Carry
- Lift Planning
- Drilling Rigs
- Shuts



## Hiabs

- Pallets by forklift delivery



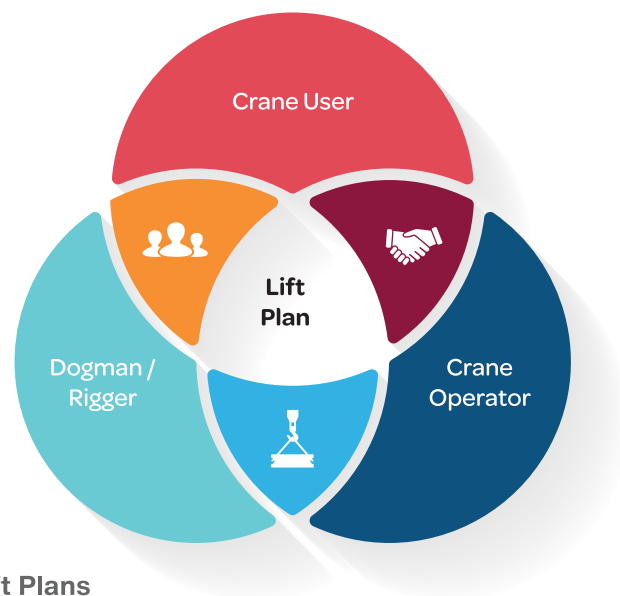
## Lift Planning

Safe operations in a workplace are often completed by a team of people from multiple PCBU's each with different roles to complete. To understand each PCBU sites may use a Site Specific Safety Plans (SSSP) to cover off the three C's. The three C's are a requirement under the Health and Safety at Work Act 2015. They require each PCBU to:

- Consult
- Cooperate, and;
- Coordinate

The SSSP in its most simplest form covers off the following elements:

- The hazards brought to site
- The activity (Task Analysis) and how you will safely complete it
- The team (Competency) to complete the task.



## Crane Operations and Lift Plans

Crane operations are also completed by a team, normally consisting of the Crane User, the Crane Operator and the Dogman/Rigger. Very much like a SSSP the Lift Plan covers off the three C's and:

- The hazards the crane brings to site and the hazards the crane operation encounters on site along with the hazard controls and responsibilities
- The lift weights and radius
- Crane Operator and Dogman Competency
- Notification requirements

It is important to remember that the crane is only a tool being used to complete a task for the Crane User. Depending on the complexity of the task the Crane User may also need to develop a Task Analysis for the activity that they will be using the crane to achieve.

Lift Plans are designed to be a living document that is used by the Crane User, Crane Operator and the Dogman/Rigger to make the lift safe.

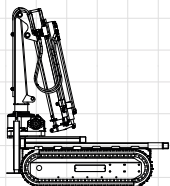
McLeod often only provide the one person the Crane Operator to site. McLeod on request can also provide a Dogman / Rigger and Lift Supervisor. Without this request it is our understanding the Crane User will be completing these functions.

To learn more see our guide to Lift Planning.

# SPIDER CRANES







# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 1.2 Tonne

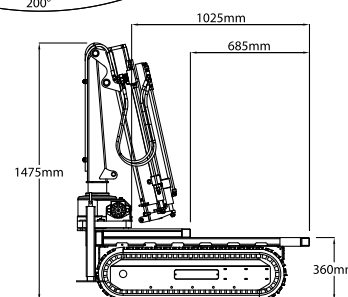
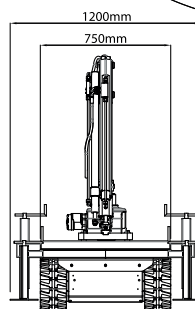
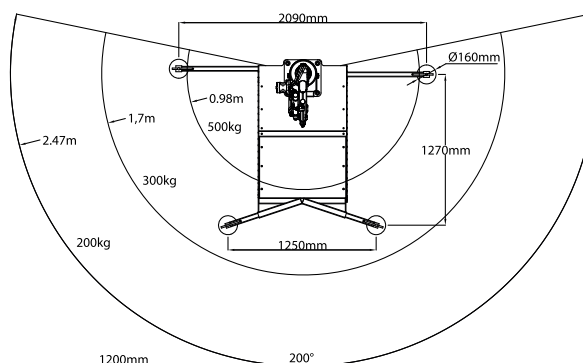
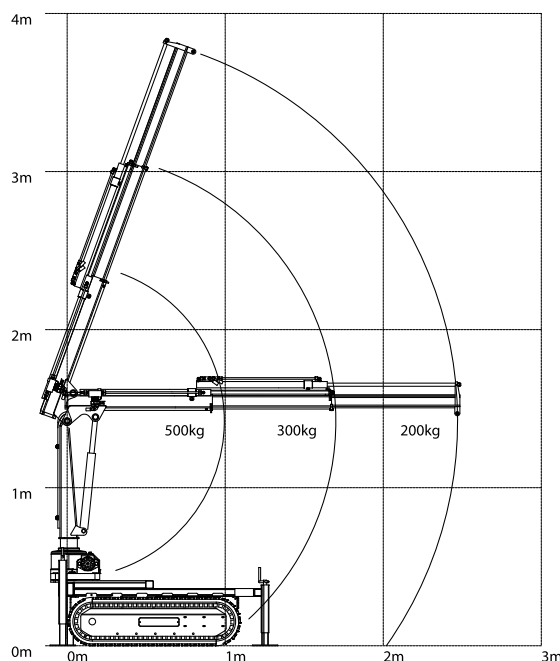
Tracked Carrier

### Tracked Carrier 1200 Pro

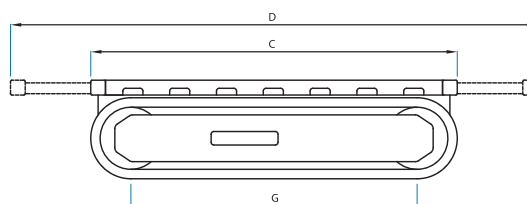
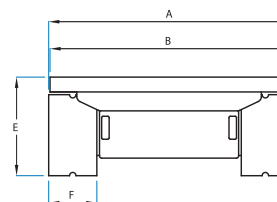
<b>Platform:</b>	Tracked Carrier
<b>Deck Length:</b>	1120 mm
<b>Maximum Payload:</b>	1200 Kg
<b>Max Payload on Gradient:</b>	300 kg
<b>Max Gradient:</b>	45 °
<b>Max Side Slope:</b>	30 °
<b>Unladen weight:</b>	340 kg

<b>Width:</b>	750 mm
<b>Deck Width:</b>	740 mm
<b>Extended Deck Length:</b>	1700 mm
<b>Height:</b>	360 mm
<b>Ground Clearance:</b>	60 mm
<b>Speed:</b>	3 km/h
<b>Unladen weight with crane:</b>	440 Kg
<b>Crane Capacity:</b>	500 Kg

### Tracked Carrier Capability



<b>DIMENSIONS</b>	Width overall (A)	750mm
	Width of bed (B)	740mm
	Length of bed/overall (C)	1120mm
	Length extended (D)	1700mm
	Height (E)	360mm
	Track width (F)	150mm
	Track length on ground (G)	800mm
	Ground clearance (centre)	60mm



## 1.2 Tonne

Tracked Carrier



Our customers understand **real innovation** starts with us



# MCLEOD

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DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 3.2 Tonne

Spider Crane

### Jekko SPX532

<b>Lift Capacity:</b>	3.2	Tonne	<b>Main Hook Weight:</b>	49	Kg
<b>Boom Length:</b>	10.3	m	<b>Aux Hook Weight:</b>	20	Kg
<b>Fly Length:</b>	5.1	m	<b>Line Pull:</b>	785	Kg
<b>Attachments:</b>	1x person mancrage, pipe manipulator, beam manipulator, glass manipulator				

## 3.2 Tonne Rating Chart

CRANE PERFORMANCE: J7										
L →	2,6	2,8	3,8	4,8	5,8	6,8	7,8	8,8	9,8	10,3
1	3,20	3,00	2,65	2,40	2,30	2,10	1,73	1,65	1,55	1,45
2	3,20	3,20	2,60	2,30	2,09	1,88	1,73	1,55	1,45	1,27
3			2,60	2,30	1,95	1,70	1,53	1,41	1,26	1,17
4				2,25	1,75	1,55	1,35	1,30	1,18	1,03
5					1,50	1,30	1,15	1,12	1,00	0,96
6						1,10	1,10	1,04	0,93	0,90
7							0,80	0,80	0,80	0,80
8								0,65	0,64	0,64
9									0,53	0,52
9,45*										0,50
↑R	[ton]									

LC532\_V100\_0719\_BP\_GANCIO\_J7

CRANE PERFORMANCE: J6										
L →	2,6	2,8	3,8	4,8	5,8	6,8	7,8	8,8	9,8	10,3
1	3,20	3,00	2,65	2,40	2,30	2,10	1,73	1,65	1,55	1,45
2	3,20	3,20	2,60	2,30	2,09	1,88	1,73	1,55	1,45	1,27
3			2,60	2,30	1,95	1,70	1,53	1,41	1,26	1,17
4				1,70	1,65	1,50	1,35	1,30	1,18	1,03
5					1,10	1,10	1,10	1,00	1,00	0,96
6						0,80	0,80	0,80	0,80	0,80
7							0,60	0,60	0,60	0,60
8								0,48	0,48	0,48
9									0,40	0,40
9,45*										0,36
↑R	[ton]									

LC532\_V100\_0719\_BP\_GANCIO\_J6

There are a number of options and attachments for the Jekko SPX532  
Call us to discuss further.



## 3.2 Tonne

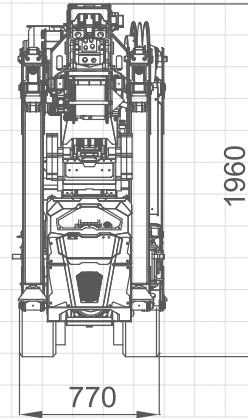
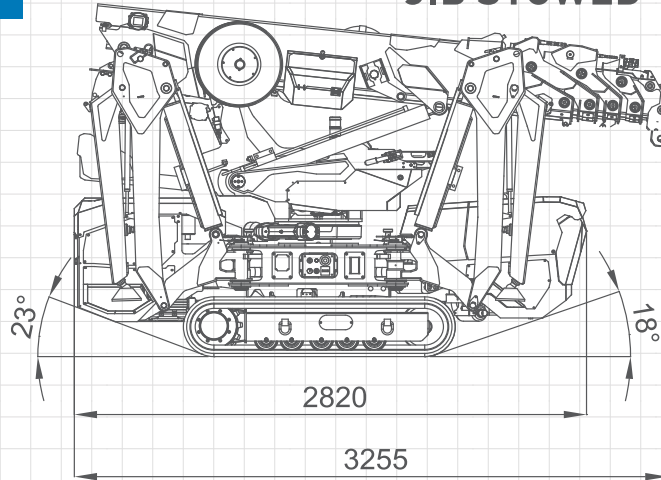
Spider Crane

**3.2**  
Tonne

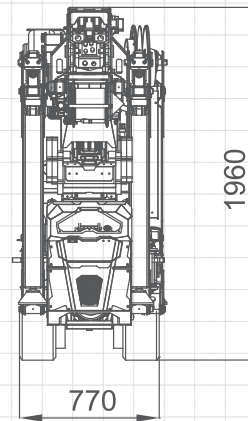
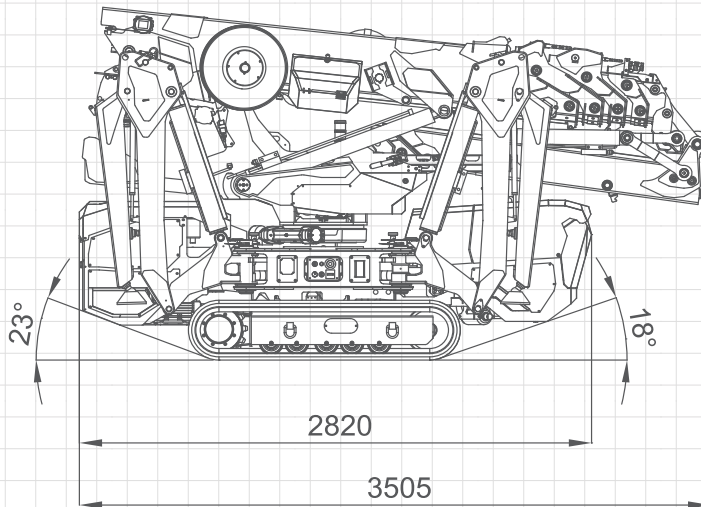
Spider  
Crane

## 3.2 Tonne Jekko Dimensions

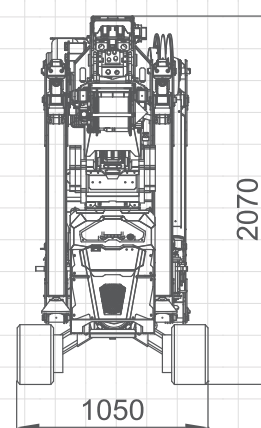
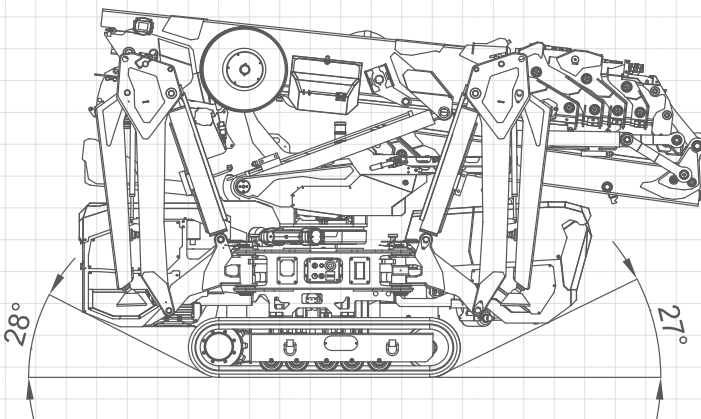
### JIB STOWED



### JIB MOUNTED



### EXTENDED TRACKS

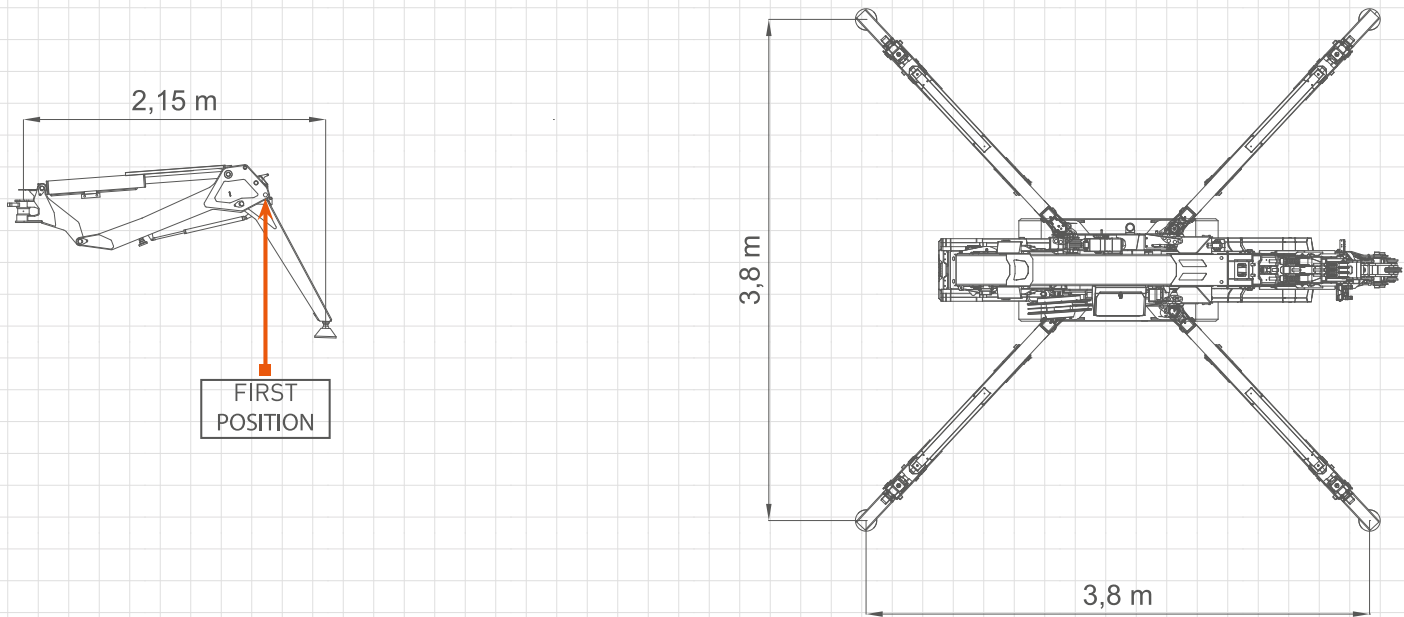


**3.2**  
Tonne

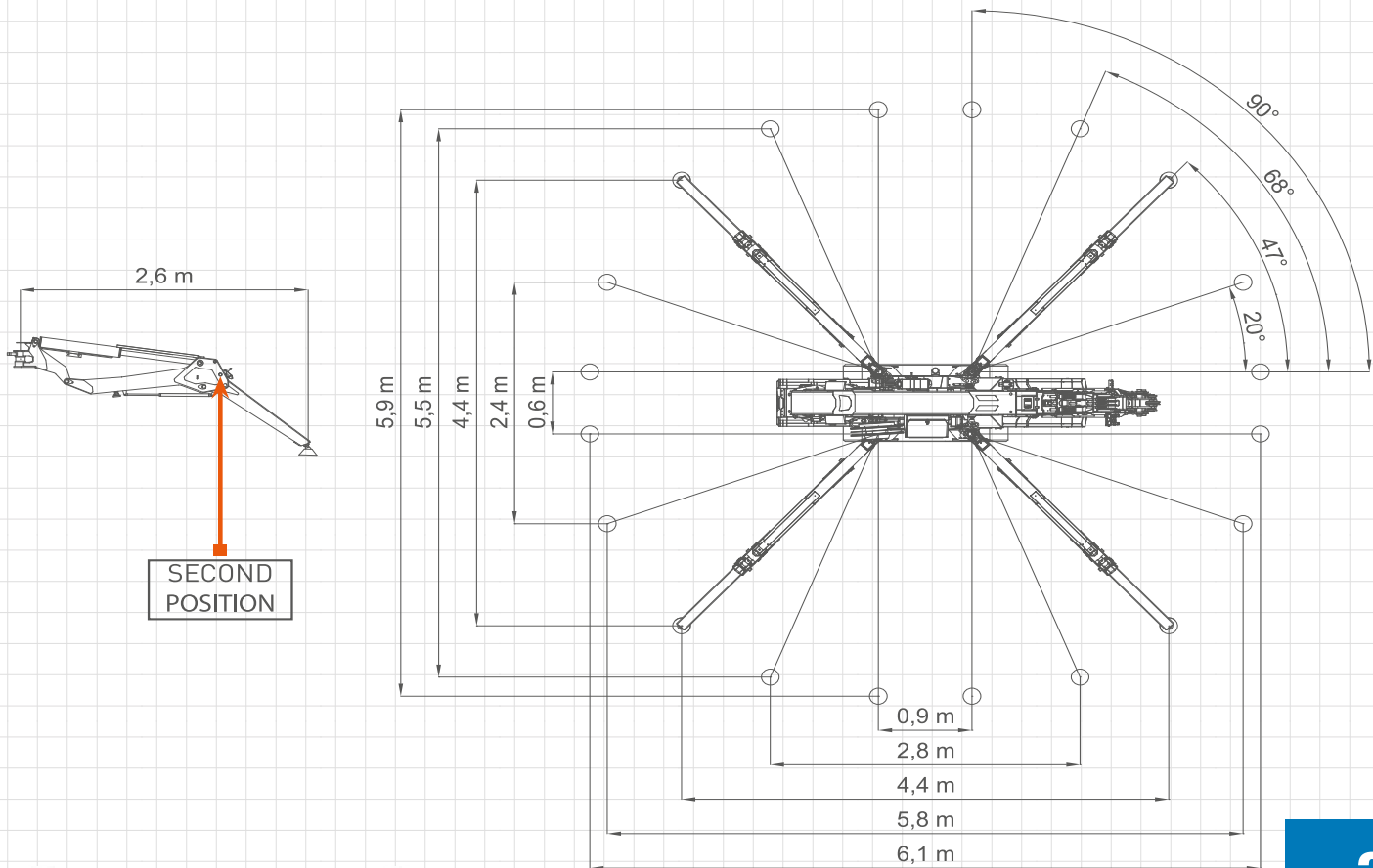
Spider  
Crane

## 3.2 Tonne Jekko Stability

### SQUARE OUTFRIGGER 1<sup>ST</sup> POSITION STABILITY



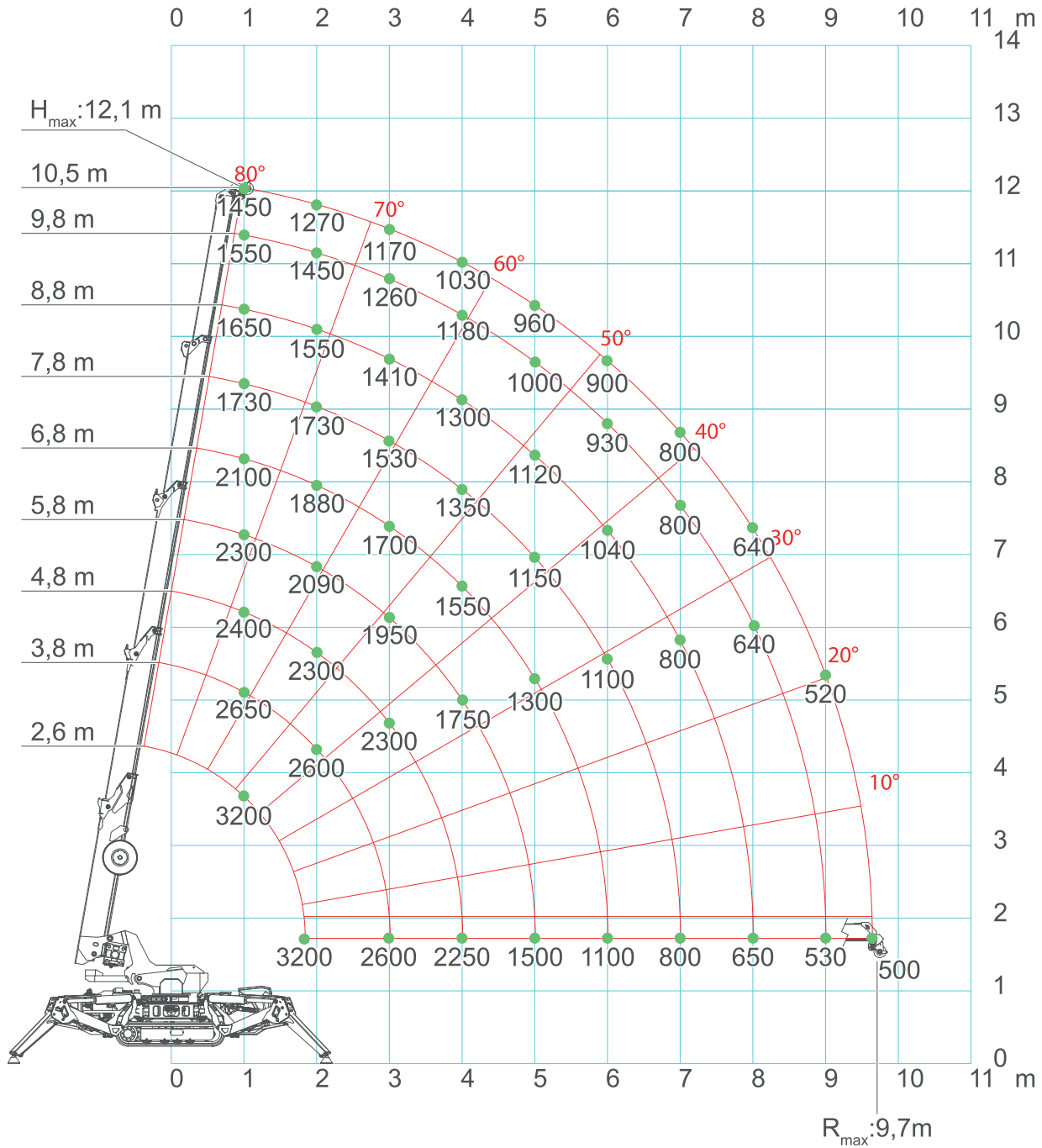
### OUTRIGGER 2<sup>ND</sup> POSITION FULL STABILITY



3.2  
Tonne

Spider  
Crane

## 3.2 Tonne Jekko Range

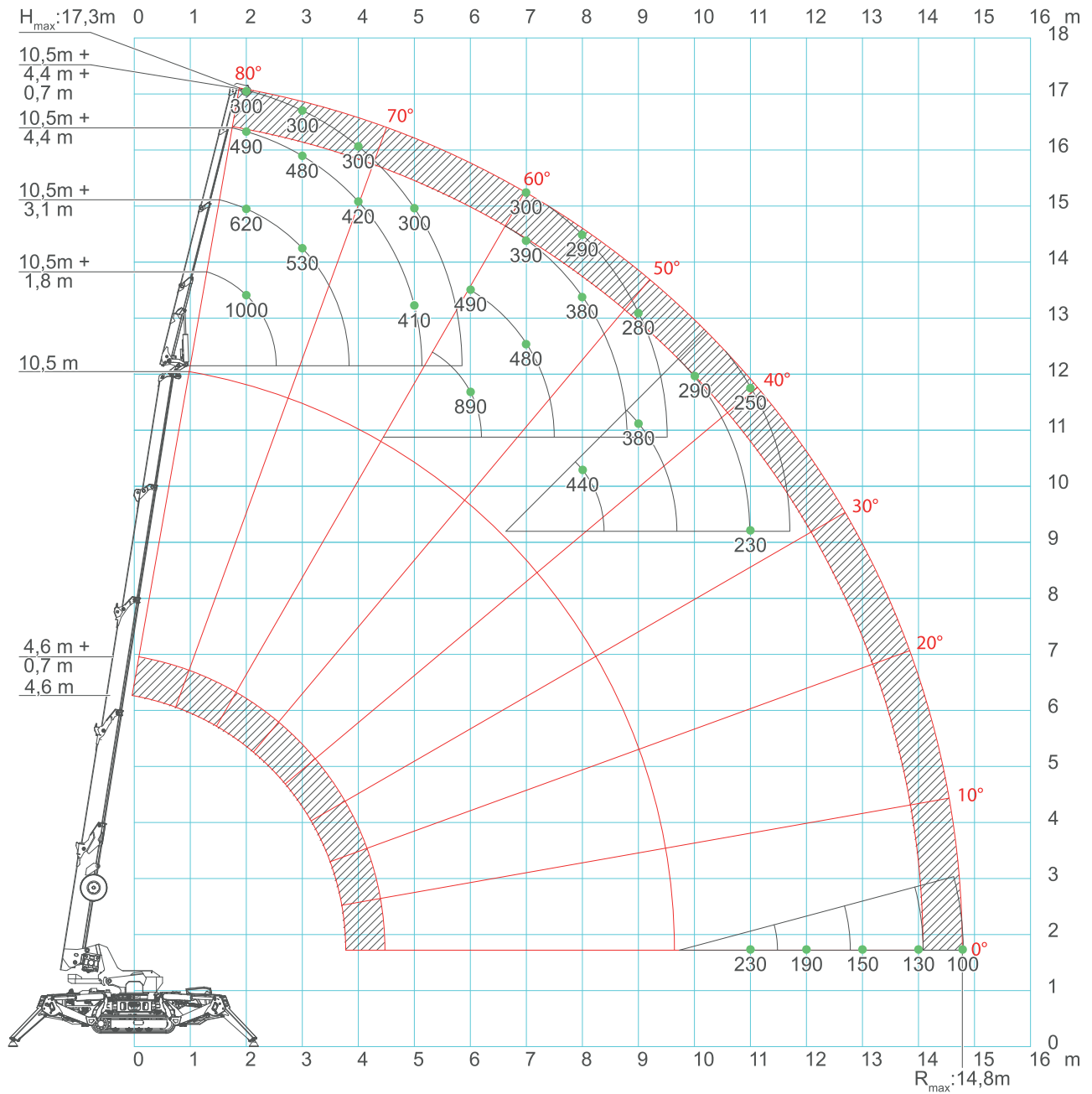


3.2  
Tonne

Spider  
Crane

**Safety first.  
McLeod first.**

## 3.2 Tonne Jekko + Jib Range



**5.0**  
Tonne

Mini Crane



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**SPX650**

**Lift Capacity:** 5.0 Tonne  
**Boom Length:** 14.5 m  
**Fly Length:** 6.0 m

**Main Hook Weight:** 30 Kg  
**Aux Hook Weight:** 30 Kg  
**Line Pull:** 785 Kg

## 5.0 Tonne Rating Chart

CRANE PERFORMANCE: J7												
L(m) →	4,0*	4,05	5,4	6,4	7,4	8,4	9,4	10,4	11,4	12,4	14,4	15,4
1	5,00	4,00	4,00	3,70	3,40	3,00	3,00	2,90	2,85	2,80	2,40	2,00
2	5,00	4,00	4,00	3,50	3,20	2,90	2,90	2,80	2,75	2,70	2,20	1,95
3	4,00	4,00	3,20	3,10	3,00	2,80	2,75	2,70	2,65	2,30	2,10	1,90
4			2,85	2,60	2,55	2,50	2,45	2,40	2,30	2,00	1,85	1,80
5				2,40	2,20	2,15	2,10	2,00	1,95	1,90	1,75	1,70
6					1,85	1,75	1,70	1,70	1,70	1,70	1,65	1,45
7						1,45	1,40	1,40	1,35	1,35	1,30	1,30
8							1,30	1,25	1,25	1,20	1,20	1,20
9								1,20	1,10	1,05	1,00	1,00
10									1,10	1,00	0,90	0,90
11										0,85	0,85	0,85
13											0,65	0,65
13,9												0,60
↑R (m)	[ton]											

LC650\_V101\_0321\_BP\_GANCIO\_J7

CRANE PERFORMANCE: J7													
L <sub>J</sub> (m) →	4,0	4,6	5,6	6,6	7,6	8,6	9,6	10,6	11,6	12,6	13,6	14,6	15,4
L+L <sub>J</sub> (m) →	5,8	6,4	7,4	8,4	9,4	10,4	11,4	12,4	13,4	14,4	15,4	16,4	17,2
1	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
5	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
6			0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
7				0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
8					0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
9						0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
10							0,55	0,55	0,55	0,55	0,55	0,55	0,55
11								0,55	0,55	0,55	0,55	0,55	0,55
12									0,55	0,55	0,48	0,48	0,48
13										0,42	0,40	0,39	0,39
14											0,34	0,32	0,31
15												0,27	0,27
15,75													0,24
↑R(m)	[ton]												

LC650\_V104\_0222\_JIB500GR\_3H\_GANCIO\_J7

There are a number of options and attachments for the Jekko SPX650  
Call us to discuss further.



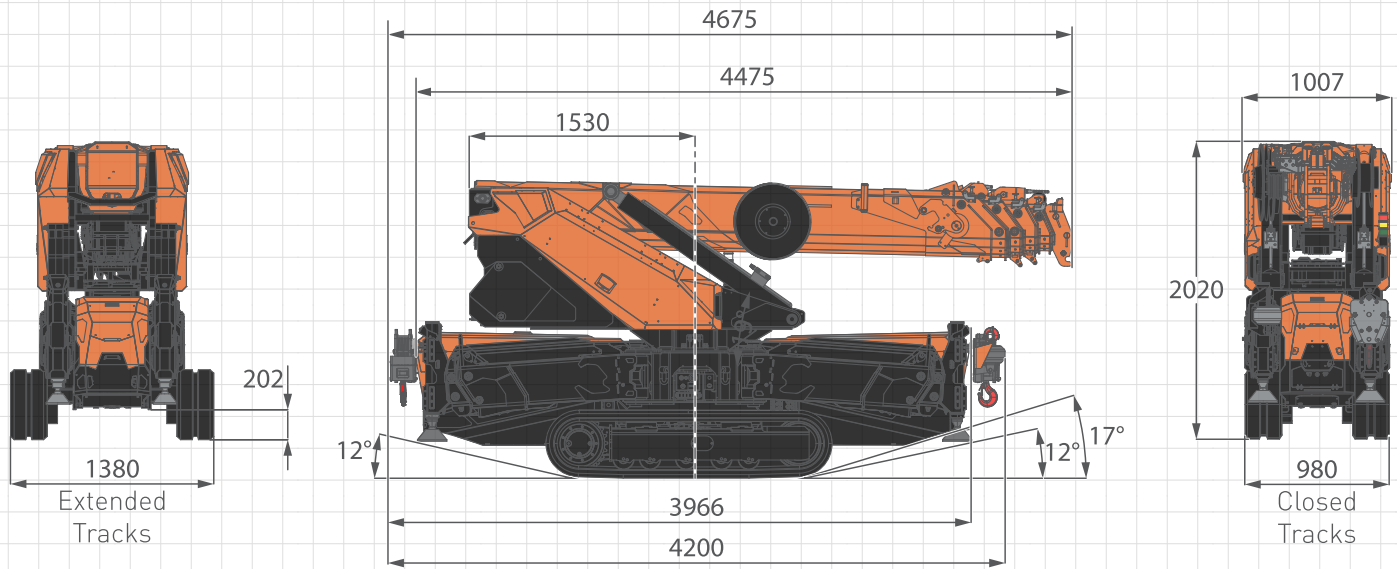
The charts that have been included have been reproduced from manufacturer specifications, and while every effort has been made to ensure their accuracy, we do not accept any responsibility for errors or omissions.

**5.0**  
Tonne

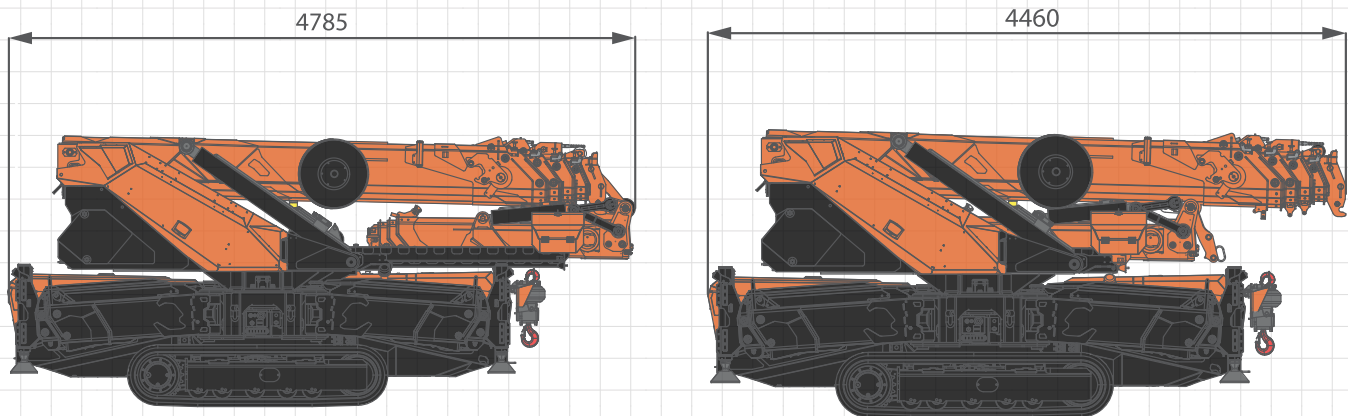
Mini Crane



## 5.0 Tonne Jekko Dimensions



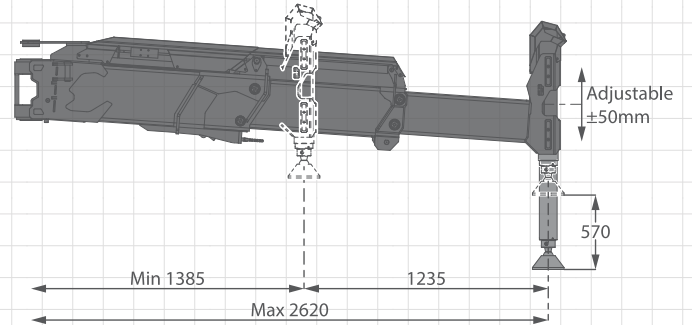
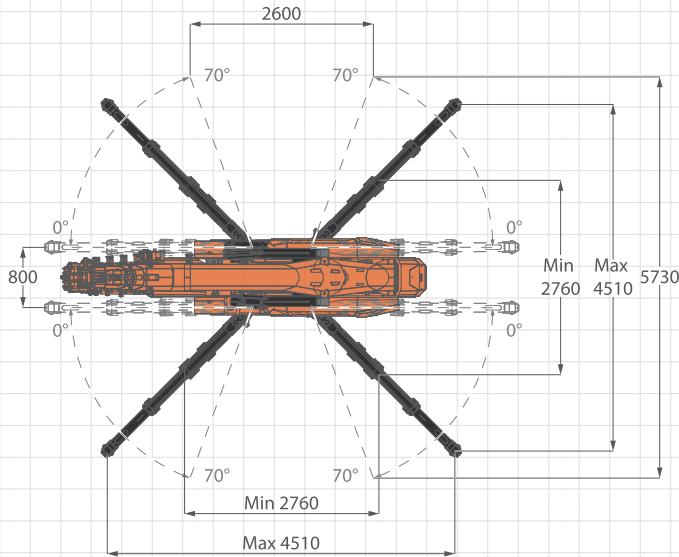
## Jib Mounted Dimensions



5.0  
Tonne

Mini Crane

## 5.0 Tonne Jekko Stability



### CRANE PERFORMANCE

	d = 1,10m	d = 1,35m	d = 1,67m	d = 1,85m	d = 2,25m	d = 2,60m
CRANE PERFORMANCE						J7
					J6	
				J5		
			J4			
		J3				
	J2					
J1 - PICK & CARRY						
J0 - NO LIFTING CAPACITY						
STABILITY AREA						

J: Stability level with J7 being the maximum and J2 the minimum, J1 is Pick&Carry only and J0 has no lifting capacity.

d: Perpendicular distance between the overturning line and the center of rotation.

5.0  
Tonne

Mini Crane

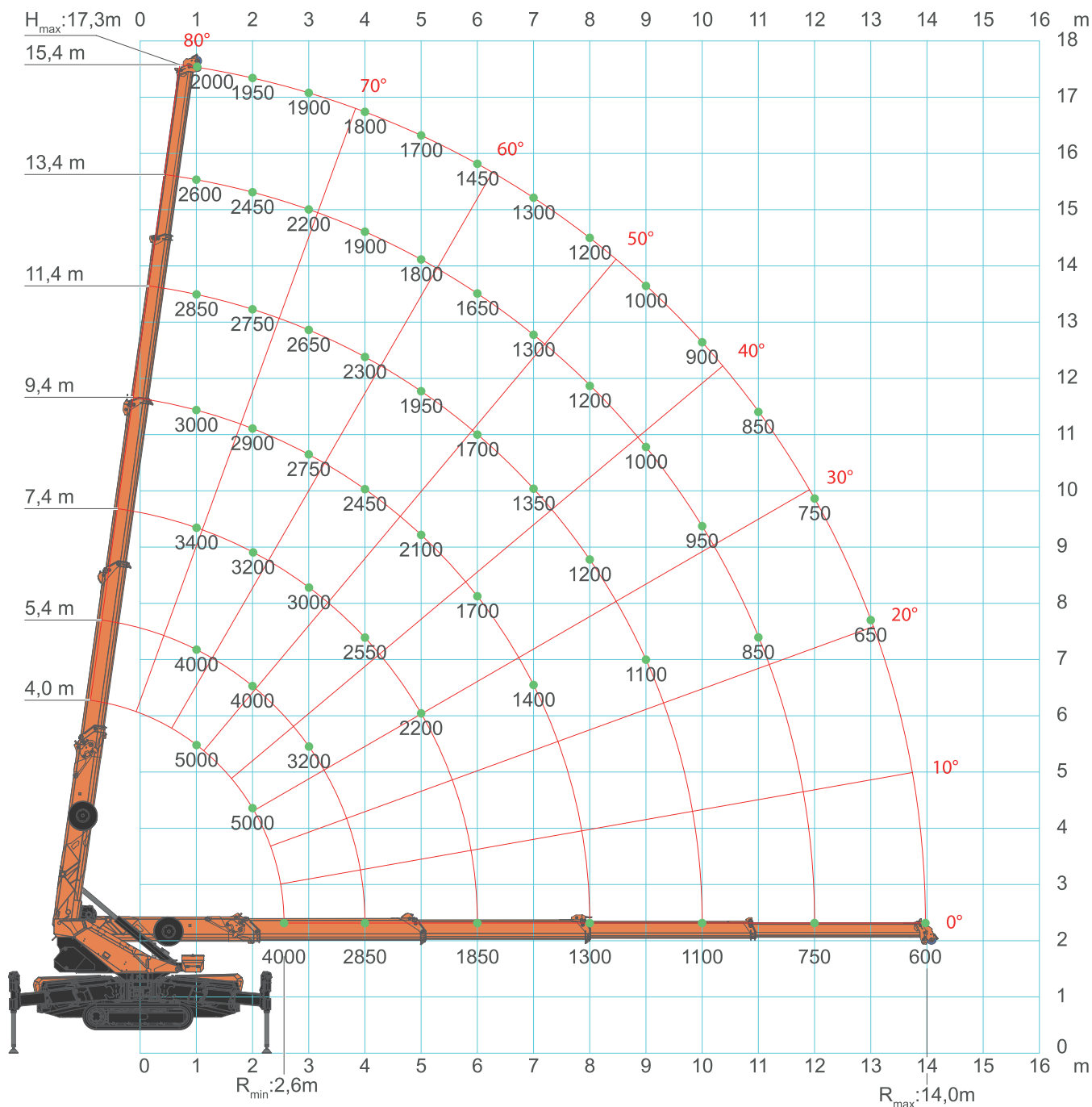


5.0 Tonne

Mini Crane

J7

# 5.0 Tonne Jekko Range



5.0 Tonne

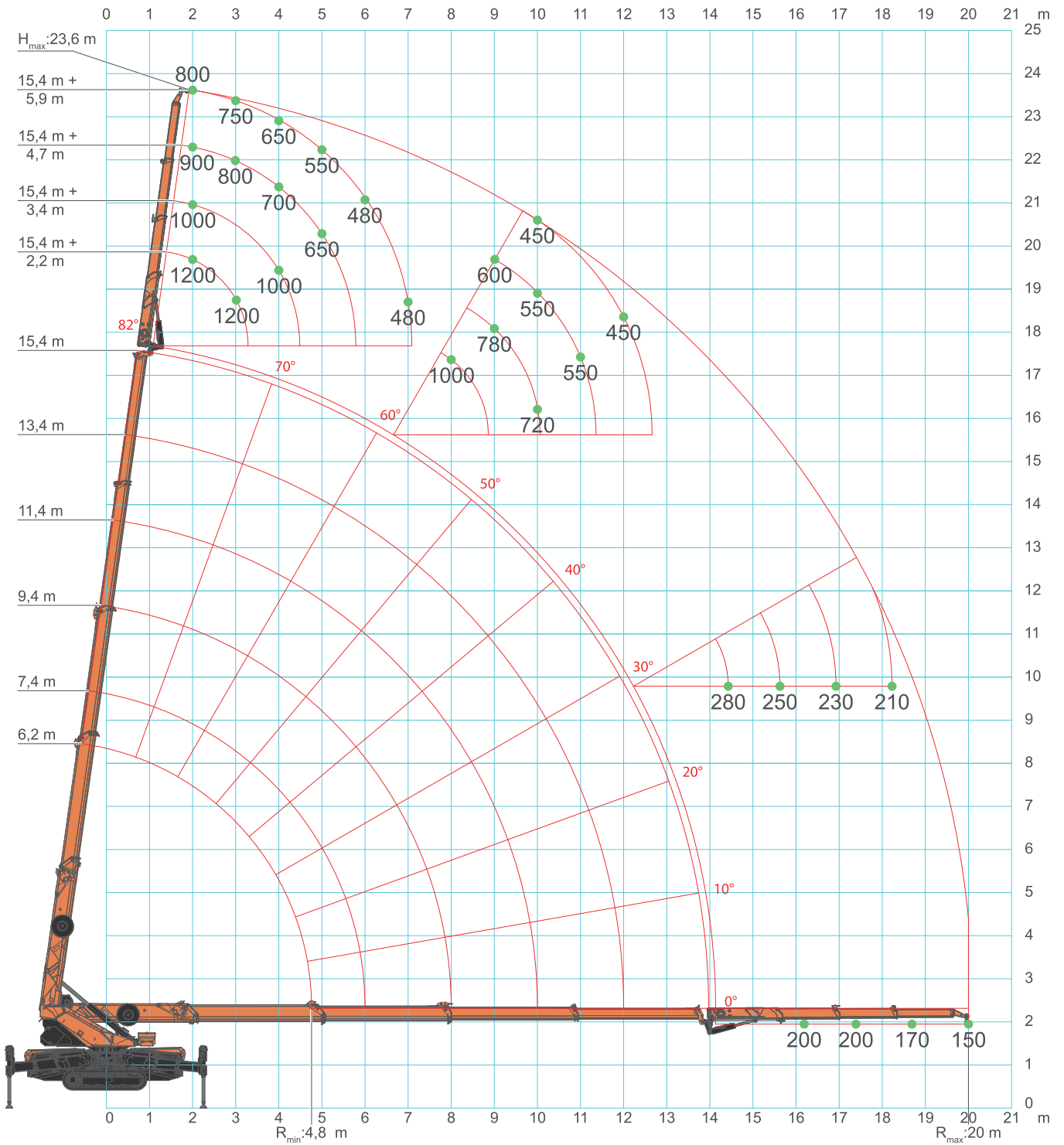
Mini Crane

5.0  
Tonne

Mini Crane

# 5.0 Tonne Jekko + Jib Range

J7



5.0  
Tonne

Mini Crane

**Safety first.  
McLeod first.**

# CRANES



**13**  
Tonne

City Crane



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY





**Lift Capacity:** 13.0 Tonne  
**Boom Length:** 24.0 m  
**Fly Length:** 3.6-5.5 m

**Main Hook Weight:** 90 Kg  
**Aux Hook Weight:** 25 Kg  
**Line Pull:** 1.8 Tonne

## 13 Tonne Rating Chart

Not exceed 75% of static tipping loads

### 5.3m — 24.0m Boom

Working radius (m)	 (4.75m)						 (4.3m)						 (3.7m)						 (2.7m)					
	Outriggers fully extended (360° full range)						Outriggers intermediately extended (over side)						Outriggers intermediately extended (over side)						Outriggers intermediately extended (over side)					
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom
1.5	13.00	6.00	6.00			13.00	6.00	6.00				12.00	6.00	6.00				12.00	6.00	6.00				
1.7	13.00	6.00	6.00			13.00	6.00	6.00				12.00	6.00	6.00				12.00	6.00	6.00				
2.0	12.00	6.00	6.00	5.00		12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			
2.5	10.00	6.00	6.00	5.00		10.00	6.00	6.00	5.00			10.00	6.00	6.00	5.00			8.50	6.00	6.00	5.00			
3.0	8.20	6.00	6.00	5.00	4.70	8.20	6.00	6.00	5.00	4.70		8.20	6.00	6.00	5.00	4.70		6.00	6.00	6.00	5.00	4.70		
3.5	7.00	6.00	6.00	5.00	4.70	3.20	7.00	6.00	6.00	5.00	4.70	3.20	7.00	6.00	6.00	5.00	4.70	3.20	4.70	4.70	4.60	4.50	4.40	3.20
4.0	6.10	6.00	6.00	5.00	4.70	3.20	6.10	6.00	6.00	5.00	4.70	3.20	6.10	6.00	6.00	5.00	4.70	3.20	3.70	3.70	3.70	3.70	3.70	3.20
4.5		5.50	5.40	5.00	4.50	3.20		5.50	5.40	5.00	4.50	3.20		5.10	5.10	5.00	4.50	3.20		3.00	3.00	3.10	3.10	3.00
5.0		5.00	4.90	4.60	4.05	3.20		5.00	4.90	4.60	4.05	3.20		4.40	4.40	4.50	4.05	3.20		2.40	2.40	2.60	2.70	2.70
5.5		4.50	4.40	4.20	3.70	3.20		4.50	4.40	4.20	3.70	3.20		3.80	3.70	3.90	3.70	3.20		2.00	2.00	2.20	2.30	2.30
6.0		4.10	4.00	3.80	3.40	3.00		4.10	4.00	3.80	3.40	3.00		3.20	3.20	3.40	3.40	3.00		1.70	1.70	1.85	2.00	2.05
6.5		3.70	3.65	3.50	3.15	2.80		3.65	3.60	3.50	3.15	2.80		2.80	2.75	2.95	3.05	2.75		1.40	1.40	1.60	1.70	1.75
7.0		3.35	3.30	3.20	2.90	2.60		3.20	3.15	3.20	2.90	2.60		2.40	2.35	2.55	2.70	2.50		1.20	1.20	1.40	1.50	1.55
8.0		2.70 (7.7m)	2.90	2.70	2.50	2.25		2.65 (7.7m)	2.45	2.60	2.50	2.25		1.95 (7.7m)	1.80	2.00	2.10	2.15		0.90 (7.7m)	0.85	1.05	1.15	1.20
9.0			2.25	2.30	2.20	1.95			1.90	2.10	2.20	1.95			1.40	1.60	1.70	1.75			0.60	0.80	0.90	0.95
10.0			1.80	2.05	1.95	1.75			1.50	1.70	1.85	1.75			1.05	1.25	1.35	1.45			0.35	0.55	0.65	0.75
11.0			1.45	1.70	1.75	1.55			1.20	1.40	1.55	1.55			0.80	1.00	1.10	1.20				0.40	0.50	0.60
12.0			1.35 (11.4m)	1.40	1.50	1.40			1.10 (11.4m)	1.15	1.30	1.35			0.70 (11.4m)	0.80	0.90	1.00				0.25	0.35	0.45
13.0				1.15	1.30	1.25				0.95	1.10	1.15				0.65	0.75	0.85					0.20	0.30
14.0				0.95	1.10	1.15				0.80	0.90	1.00				0.50	0.60	0.70						0.20
15.0				0.80	0.90	1.00				0.65	0.75	0.85				0.40	0.50	0.55						
16.0					0.79	0.85					0.65	0.70					0.40	0.45						
17.0					0.68	0.74					0.55	0.60					0.30	0.35						
18.0					0.58	0.64					0.45	0.50						0.30						
19.0					0.51 (18.8m)	0.55					0.35 (18.8m)	0.40												
20.0						0.47						0.35												
21.0						0.41						0.30												
22.0						0.35						0.25												
22.5						0.32																		
Critical boom angle	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23°	36°	—	—	19°	32°	44°	50°
Standard hook	for 13 ton						for 13 ton						for 13 ton						for 13 ton					
Hook mass	90kg						90kg						90kg						90kg					
Parts of line	8	4	4	4	4	4	8	4	4	4	4	4	8	4	4	4	4	4	8	4	4	4	4	4

(Unit : Metric ton)

**13**  
Tonne

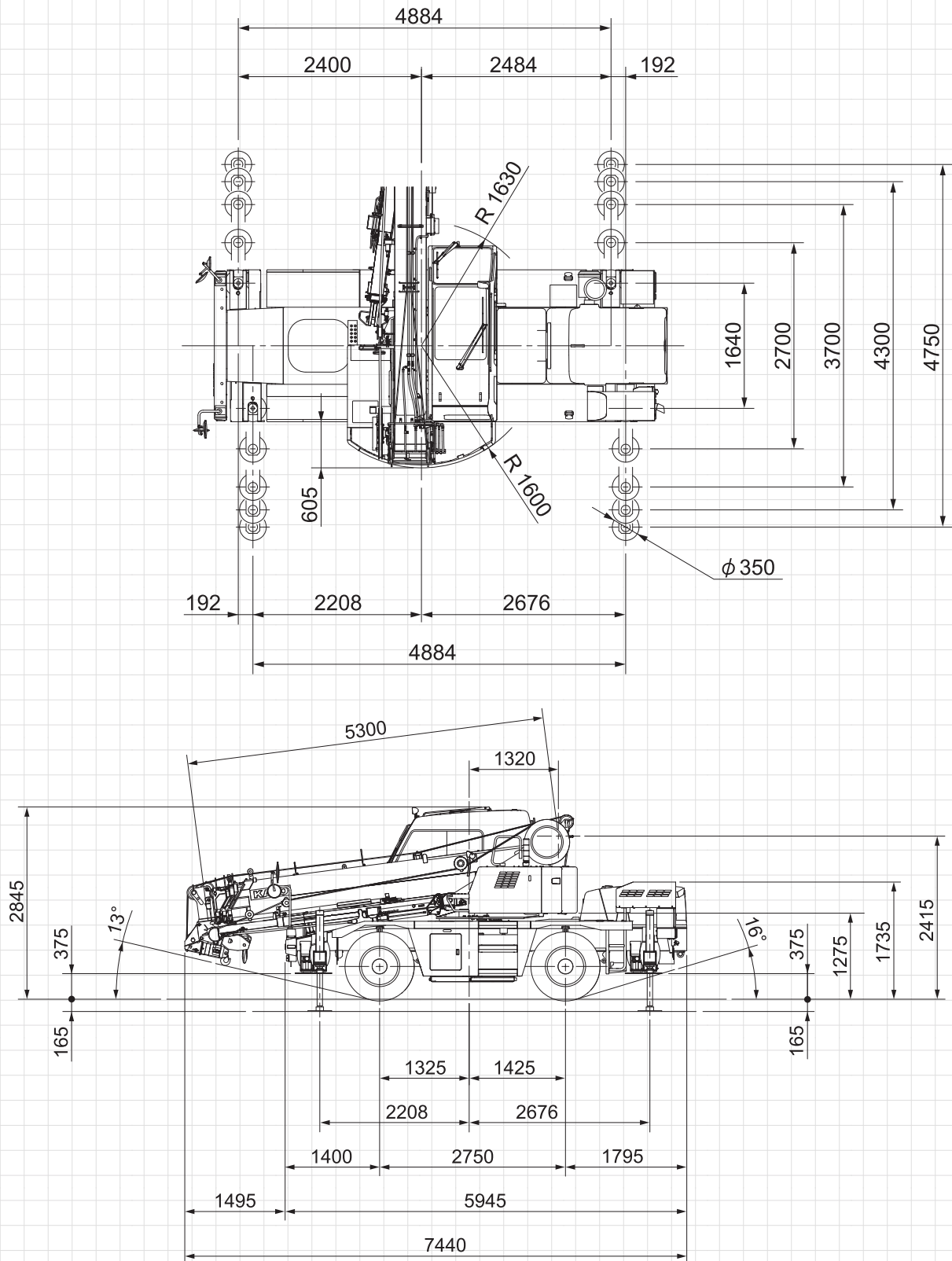
City Crane



**13**  
Tonne

City Crane

## 13 Tonne Dimensions



**13**  
Tonne

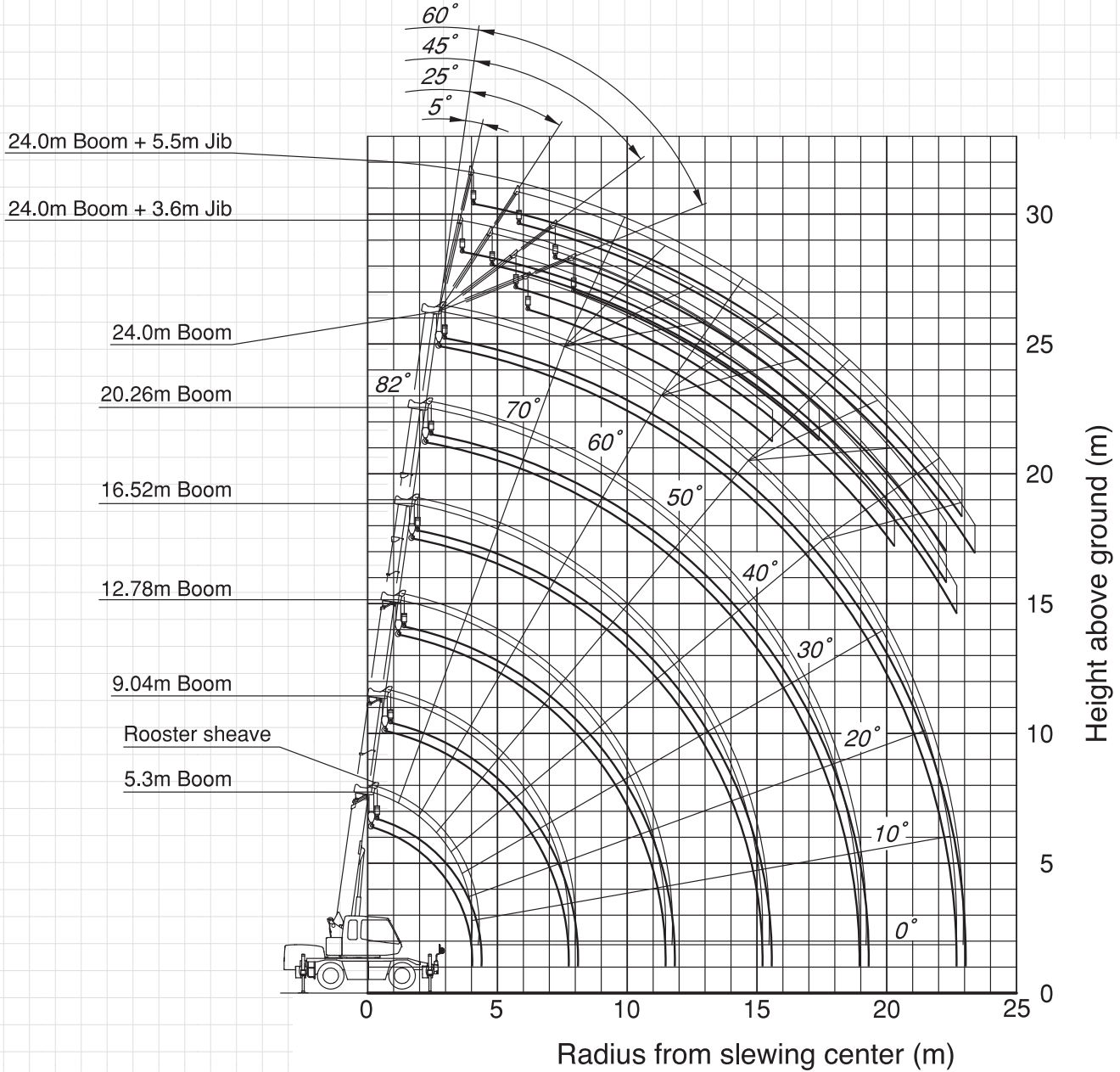
City Crane

13

Tonne

City Crane

# 13 Tonne Working Range



Note:

- 1. This diagram does not include deflection of boom and jib.
- 2. The outriggers are fully extended (360° full range).

13

Tonne

City Crane







# MCLEOD



CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 15 Tonne

Pick & Carry Crane

**Lift Capacity:** 15.0 Tonne      **Main Hook Weight:** 150 Kg  
**Boom Length:** 13.86 m      **Line Pull:** 3.5 Tonne  
**Manual Ext:** 17.91 m

## 15 Tonne Rating Chart

Pick & Carry 0.4m/s (1.44 km/h)  66.6%  5.66 m – 13.86 m AS 1418.5

m	Boom Length (m)																		m	
	5.66	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	13.86		
1.6	10500	10500	10500	10500	10500															1.6
	48°	50°	54°	57°	59°															
2.0	10500	10500	10500	10500	10500	10500	10500													2.0
	42°	46°	50°	53°	56°	58°	60°													
2.5	10400	10350	10350	10350	10350	10350	10350	9950	9650											2.5
	9250	9250	9250	9250	9250	9250	9250	9200	9200											
	34°	39°	44°	48°	51°	54°	56°	58°	60°											
3.0	8500	8500	8500	8500	8500	8500	8500	8500	8500	8300	7350									3.0
	7600	7600	7600	7600	7600	7550	7550	7550	7550	7550	7350									
	25°	31°	37°	42°	46°	49°	52°	55°	57°	58°	60°									
3.5	7200	7200	7200	7200	7200	7200	7150	7150	7150	7150	6750	5950	5650							3.5
	6400	6400	6400	6400	6400	6400	6400	6400	6350	6350	6350	5950	5650							
	9°	20°	30°	36°	41°	45°	48°	51°	53°	55°	57°	59°	60°							
4.0	6950	6250	6200	6200	6200	6200	6200	6200	6200	6150	6150	5500	5250	5000	4800					4.0
	6150	5550	5500	5500	5500	5500	5500	5500	5500	5500	5500	5500	5450	5250	5000	4800				
	(3.61)	(3.95)	20°	28°	35°	39°	43°	46°	49°	52°	54°	56°	57°	59°	60°					
4.5			5450	5400	5400	5400	5400	5400	5400	5400	5400	5150	4900	4650	4500	4300	4150			4.5
			4850	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4650	4500	4300	4150		
			(4.45)	19°	28°	34°	38°	42°	45°	48°	50°	52°	54°	56°	57°	59°	60°			
5.0				4850	4800	4800	4800	4800	4800	4800	4800	4800	4800	4550	4350	4200	4050	3900	3800	5.0
				4300	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4200	4200	4050	3900	3800	
				(4.95)	18°	27°	33°	37°	41°	44°	47°	49°	51°	53°	55°	56°	58°	59°		
6.0					4300	3900	3850	3850	3850	3850	3850	3850	3850	3850	3700	3550	3300	3200		6.0
					3800	3450	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3200	3200	
					(5.45)	(5.95)	17°	25°	31°	35°	39°	42°	45°	47°	49°	51°	52°	54°		
7.0							3550	3200	3200	3200	3200	3200	3200	3200	3200	3050	2950	2850		7.0
							3100	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800		
							(6.45)	(6.95)	16°	24°	29°	34°	37°	40°	43°	45°	47°	48°		
8.0										2950	2700	2700	2700	2700	2700	2700	2650	2600		8.0
										2600	2350	2350	2350	2350	2350	2350	2350	2350		
										(7.45)	(7.95)	16°	23°	28°	32°	36°	38°	41°	43°	
9.0												2500	2300	2300	2300	2300	2300	2300		9.0
												2200	2000	2000	2000	2000	2000	2000		
												(8.45)	(8.95)	15°	22°	27°	31°	34°	36°	
10.0														2150	2000	2000	2000	2000		10.0
														1850	1750	1750	1750	1750		
														(9.45)	(9.95)	14°	21°	26°	29°	
11.0																1900	1750	1750	1750	11.0
																1600	1500	1500	1500	
																(10.45)	(10.95)	14°	19°	
11.81																	1650	1550		11.81
																	(11.45)	(11.81)		



## 15 Tonne

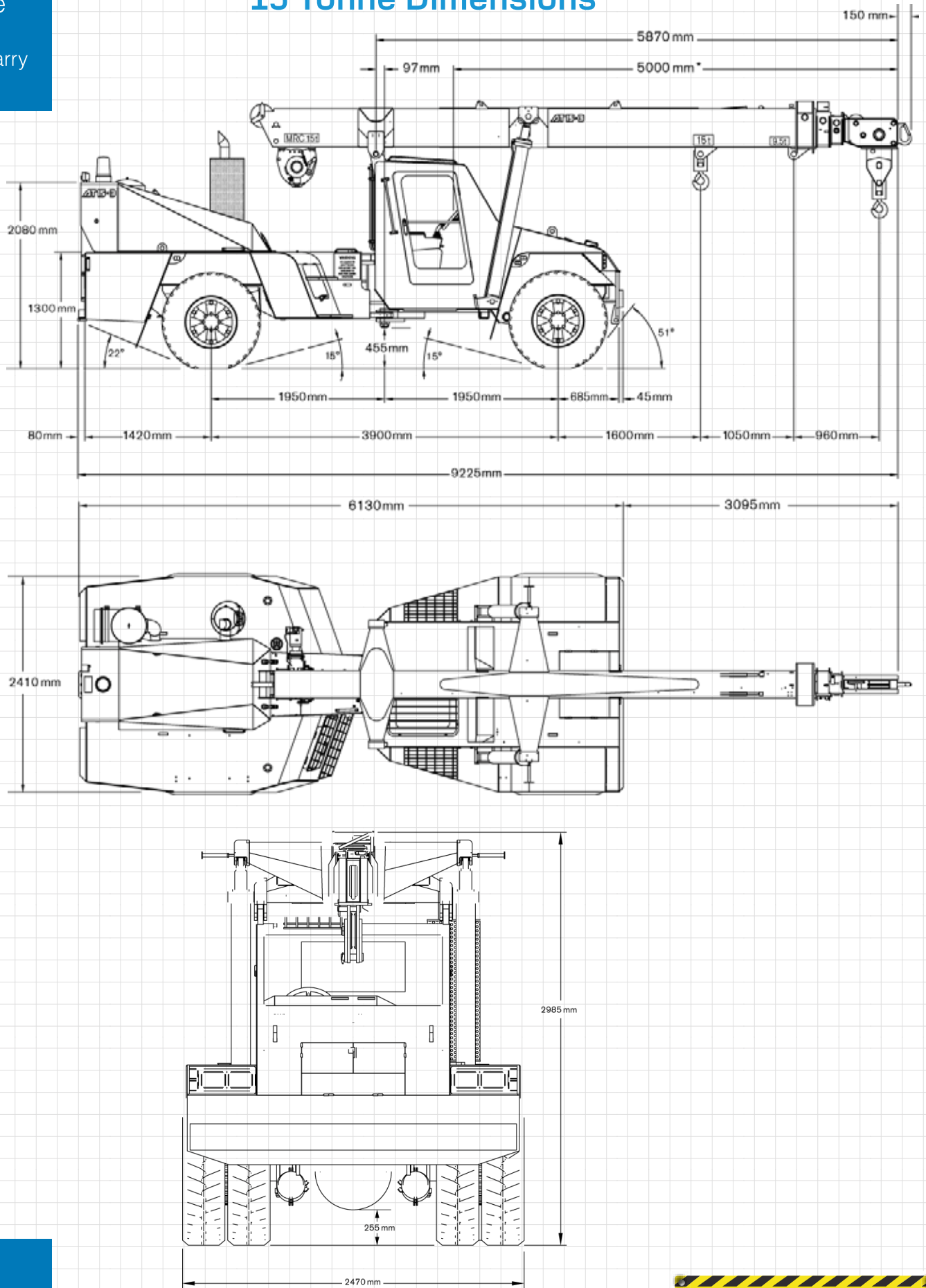
Pick & Carry Crane

15

Tonne

Pick & Carry  
Crane

# 15 Tonne Dimensions



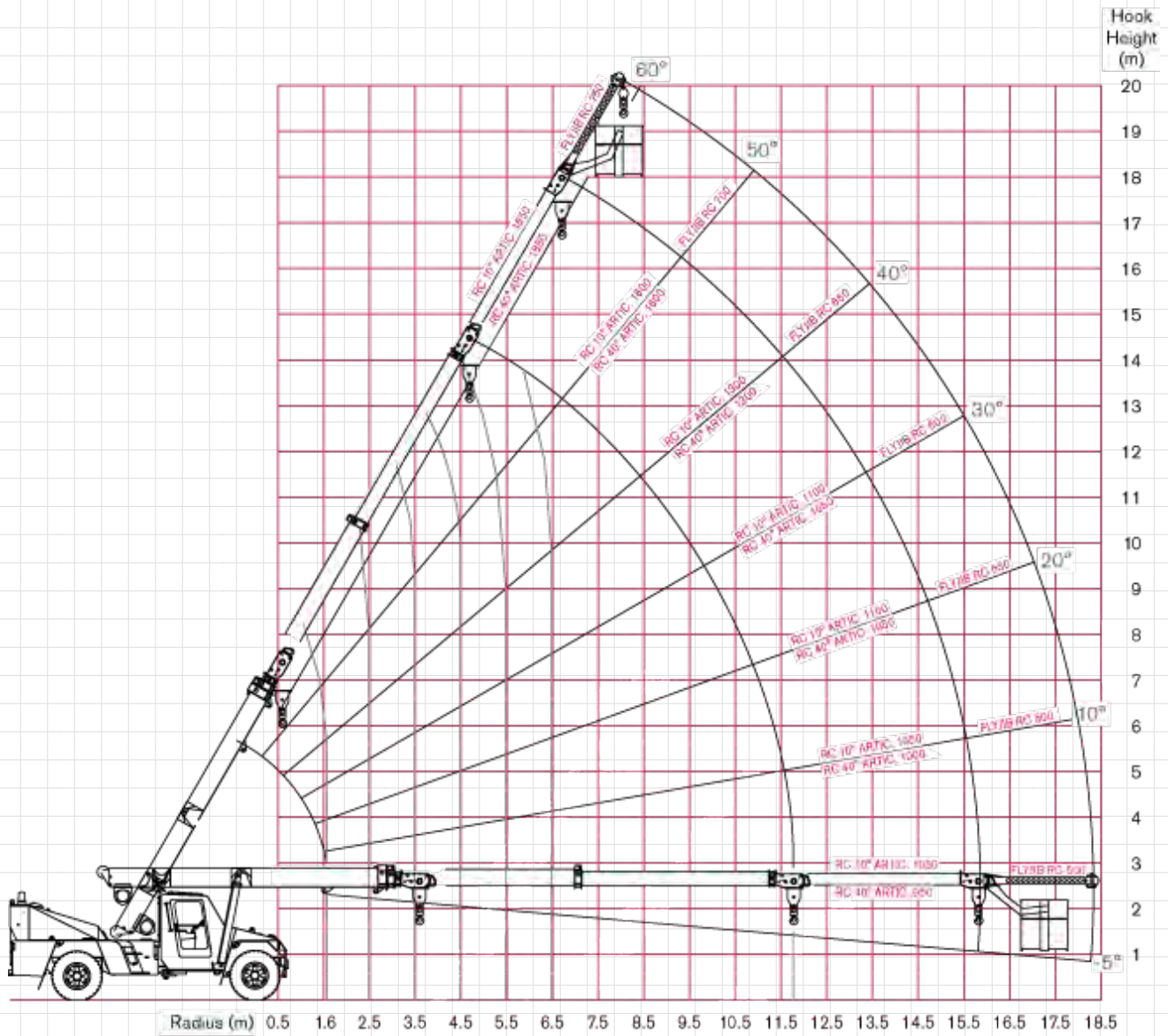
15

Tonne

Pick & Carry  
Crane



## 15 Tonne Working Range



15000	9800	7200	5400	4300	3500	2900	2400	2100	1800	1550	RC (KG) 10° ART.	10 TONNE REAR AXLE
14000	8800	6300	4800	3800	3000	2500	2100	1800	1600	1350	RC (KG) 40° ART.	



20  
Tonne

City Crane



**MCLEOD**

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DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**Kato CR200RF**

**Lift Capacity:** 20.0 Tonne  
**Boom Length:** 28.0 m  
**Fly Length:** 4.0-5.8 m

**Main Hook Weight:** 150 Kg  
**Aux Hook Weight:** 60 Kg  
**Line Pull:** 3.2 Tonne

## 20 Tonne Rating Chart



### RATED LIFTING CAPACITY

Based on ISO 4305  
Not exceed 75% of static tipping loads

### 6.5m — 28.0m Boom

Working radius (m)	(5.4m)						(4.8m)						(4.3m)						(3.2m)						(1.93m)						
	Outriggers fully extended (5.4m) - 360° full range						Outriggers intermediately extended (4.8m) - over side						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.2m) - over side						Outriggers completely retracted (1.93m) - over side (H-type outrigger only)						
	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	
2.5	20.00*	12.50	10.00	7.50			20.00*	12.50	10.00	7.50			20.00*	12.50	10.00	7.50			17.70	12.50	10.00	7.50			8.15	7.95	6.90	6.60			
3.0	18.50*	12.50	10.00	7.50			18.00*	12.50	10.00	7.50			17.45	12.50	10.00	7.50			14.55	12.50	10.00	7.50			5.80	5.65	5.25	5.20			
3.5	16.20	12.50	10.00	7.50	6.00	5.00	16.00	12.50	10.00	7.50	6.00	5.00	15.00	12.50	10.00	7.50	6.00	5.00	10.40	10.20	9.55	7.50	6.00	5.00	4.35	4.20	4.10	4.15	4.05	3.90	
4.0	14.00	12.50	10.00	7.50	6.00	5.00	14.00	12.50	10.00	7.50	6.00	5.00	13.00	12.50	10.00	7.50	6.00	5.00	7.95	7.75	7.70	7.50	6.00	5.00	3.40	3.25	3.20	3.55	3.35	3.30	
4.5	12.00	12.00	10.00	7.50	6.00	5.00	12.00	12.00	10.00	7.50	6.00	5.00	11.15	10.95	10.00	7.50	6.00	5.00	6.30	6.15	6.10	6.30	6.00	5.00	2.70	2.55	2.50	2.85	2.80	2.75	
5.0		11.05	10.00	7.50	6.00	5.00		10.90	10.00	7.50	6.00	5.00		8.75	8.70	7.50	6.00	5.00		5.00	4.95	5.30	5.25	5.00		2.00	2.00	2.30	2.35	2.35	
5.5		10.20	9.30	7.50	6.00	5.00		8.85	8.80	7.50	6.00	5.00		7.20	7.15	7.50	6.00	5.00		4.10	4.05	4.45	4.55	4.50		1.60	1.55	1.85	1.95	2.00	
6.0		9.30	8.55	7.50	6.00	5.00		7.40	7.35	7.50	6.00	5.00		6.05	6.00	6.40	6.00	5.00		3.45	3.40	3.75	3.95	3.95		1.25	1.20	1.55	1.65	1.70	
6.5		7.85	7.80	7.10	5.75	5.00		6.30	6.25	6.65	5.75	5.00		5.15	5.10	5.45	5.70	5.00		2.95	2.90	3.20	3.40	3.50		0.95	0.90	1.25	1.35	1.45	
7.0		6.75	6.70	6.55	5.40	4.65		5.40	5.35	5.75	5.40	4.65		4.45	4.35	4.75	4.95	4.65		2.50	2.45	2.75	2.95	3.10		0.70		1.00	1.15	1.20	
8.0		5.15	5.10	5.45	4.75	4.05		4.15	4.05	4.45	4.65	4.05		3.35	3.30	3.65	3.85	4.00		1.80	1.75	2.10	2.30	2.40							
9.0		4.05	4.00	4.35	4.25	3.60		3.25	3.15	3.50	3.75	3.60		2.60	2.50	2.90	3.10	3.25		1.30	1.20	1.55	1.75	1.90							
10.0			3.20	3.55	3.75	3.20			2.45	2.85	3.05	3.20			1.90	2.30	2.50	2.65			0.80	1.15	1.35	1.50							
11.0			2.55	2.90	3.10	2.90			1.95	2.30	2.50	2.65			1.45	1.80	2.00	2.15			0.50	0.80	1.00	1.15							
12.0			2.05	2.40	2.60	2.65			1.50	1.85	2.05	2.20			1.10	1.45	1.65	1.80				0.55	0.75	0.90							
13.0			1.65	2.00	2.20	2.35			1.15	1.50	1.70	1.85			0.80	1.10	1.30	1.45				0.35	0.55	0.70							
14.0			1.45 (13.5m)	1.65	1.85	2.00			1.00 (13.5m)	1.20	1.40	1.55			0.65 (13.5m)	0.85	1.05	1.20				0.35	0.50								
15.0				1.35	1.55	1.70				0.95	1.15	1.30				0.65	0.85	1.00					0.35								
16.0				1.10	1.30	1.45				0.75	0.95	1.10				0.45	0.65	0.80													
17.0				0.90	1.10	1.25				0.60	0.75	0.90				0.30	0.50	0.65													
18.0				0.80 (17.5m)	0.90	1.05				0.50 (17.5m)	0.60	0.75					0.35	0.50													
19.0					0.75	0.90					0.45	0.60						0.35													
20.0					0.60	0.75						0.35	0.50																		
21.0					0.50	0.60						0.35																			
22.0					0.45 (21.5m)	0.50																									
23.0						0.40																									
24.5						0.30																									
Critical boom angle	—	—	—	—	18°	—	—	—	—	22°	35°	—	—	—	12°	33°	42°	—	—	33°	41°	50°	56°	—	36°	59°	64°	69°	72°		
Standard hook	for 20 ton						for 20 ton						for 20 ton						for 20 ton						for 20 ton						
Hook mass	150kg						150kg						150kg						150kg						150kg						
Parts of line	7*6	6	6	4	4	7*6	6	6	4	4	7*6	6	6	4	4	6	6	4	4	6	6	4	4	6	6	4	4	6	6	4	

(Unit: Metric ton)

20  
Tonne

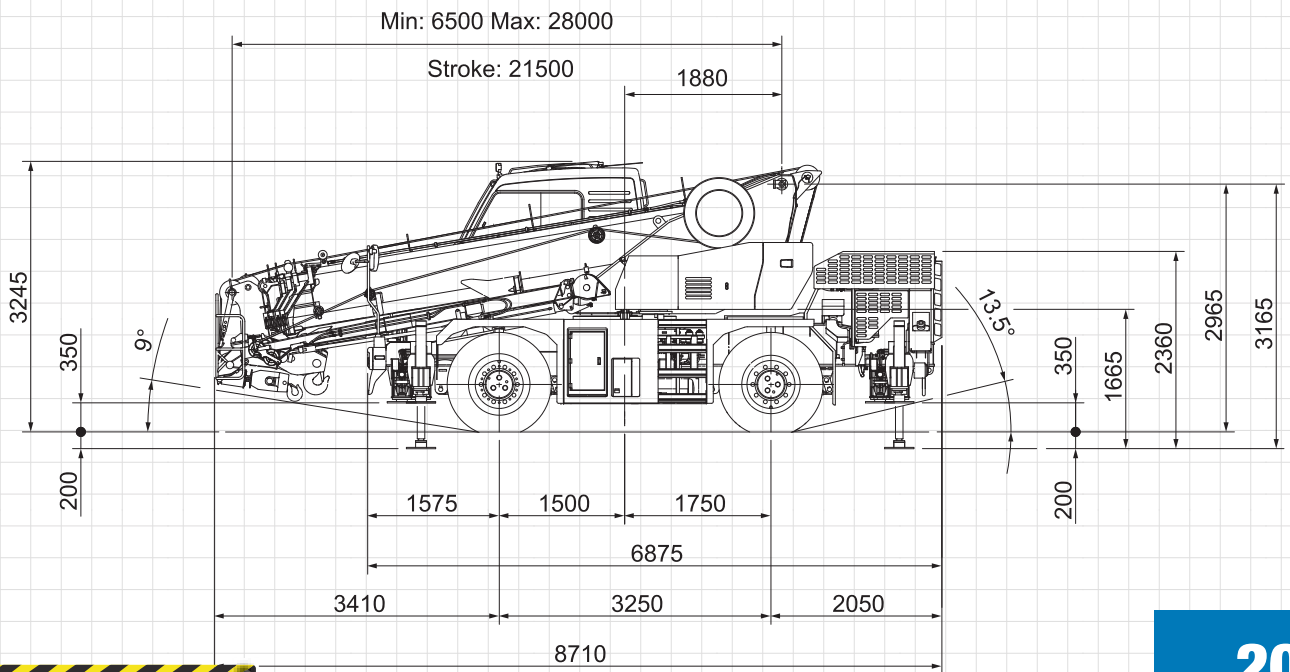
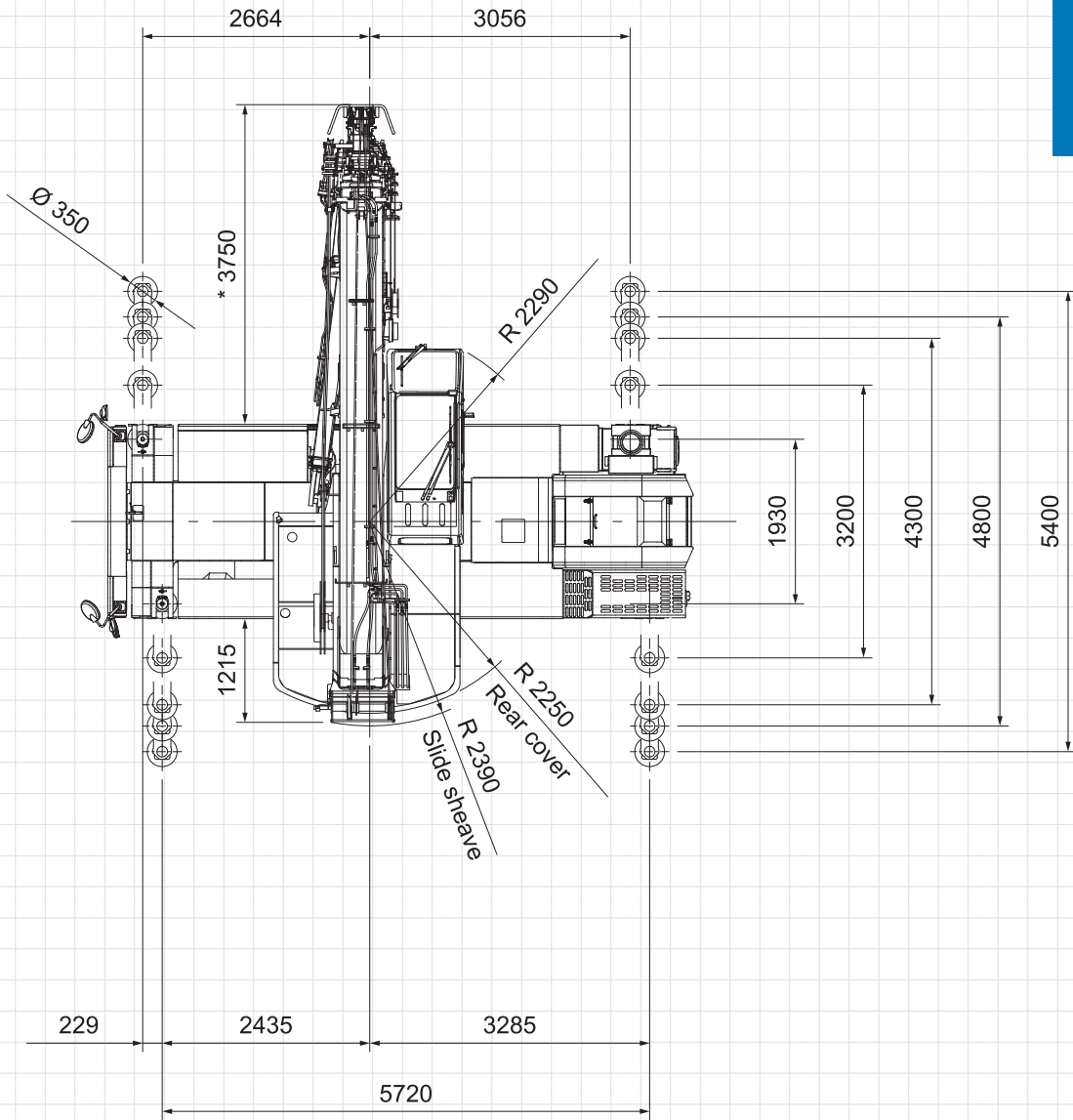
City Crane



# 20 Tonne Dimensions

20  
Tonne

City Crane



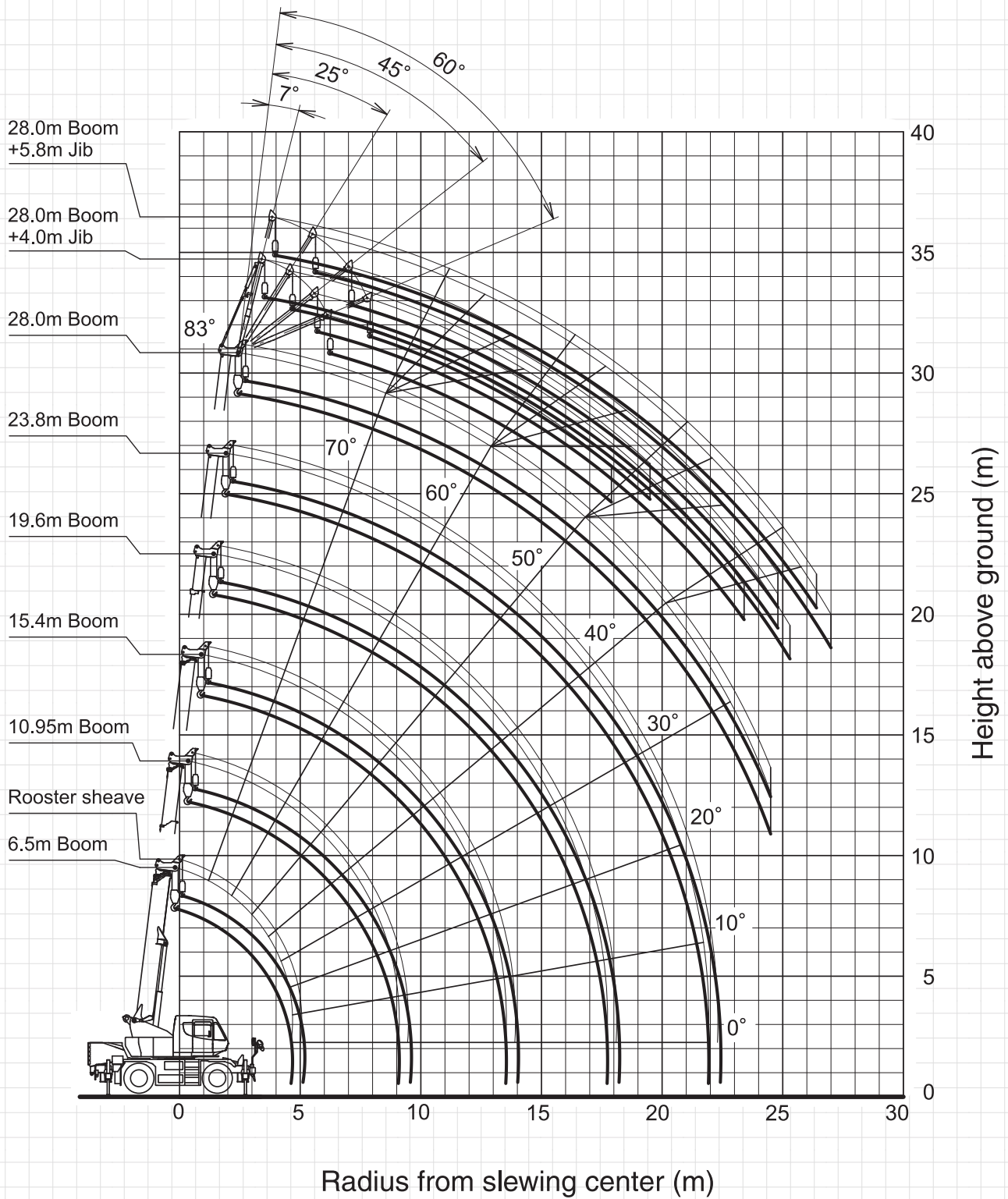
20  
Tonne

City Crane

20  
Tonne

City Crane

## 20 Tonne Working Range



20  
Tonne

City Crane

**Safety first.  
McLeod first.**



# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**20**  
Tonne

Rough  
Terrain  
Crane

## Tadano TR200M

**Lift Capacity:** 20.0 Tonne  
**Boom Length:** 32.1 m

**Main Hook Weight:** 220 Kg  
**Aux Hook Weight:** 60 Kg  
**Line Pull:** 3.3 Tonne  
**Spreader:** 2.2m, 2.5m, 2.8m, 3.1m, 3.4m, 3.8m.

## 20 Tonne Rating Chart

M	8.5	14.4	20.3	26.2	32.1
2.5	20.0	12.0	9.0		
3.0	20.0	12.0	9.0		
3.5	20.0	12.0	9.0	7.0	
4.0	18.5	12.0	9.0	7.0	3.4
4.5	16.5	12.0	9.0	7.0	3.4
5.0	15.0	12.0	9.0	7.0	3.4
5.5	13.7	12.0	9.0	7.0	3.4
6.0	12.5	11.4	9.0	7.0	3.4
6.5	11.5	10.6	8.5	7.0	3.4
7.0		9.9	8.0	6.8	3.4
8.0		8.4	7.2	6.1	3.4
9.0		6.8	6.4	5.5	3.4
10.0		5.8	5.8	5.0	3.4
11.0		4.8	4.9	4.6	3.2
12.0		4.1	4.2	4.2	3.0
13.0			3.6	3.6	2.8
14.0			3.4	3.2	2.7
15.0			3.0	2.8	2.5
16.0			2.7	2.6	2.4
17.0			2.4	2.4	2.3
18.0			2.2	2.2	2.1
19.0				2.0	2.0
20.0				1.8	1.8
22.0				1.5	1.5
24.0				1.1	1.1
26.0					0.9
28.0					0.7
30.0					0.5

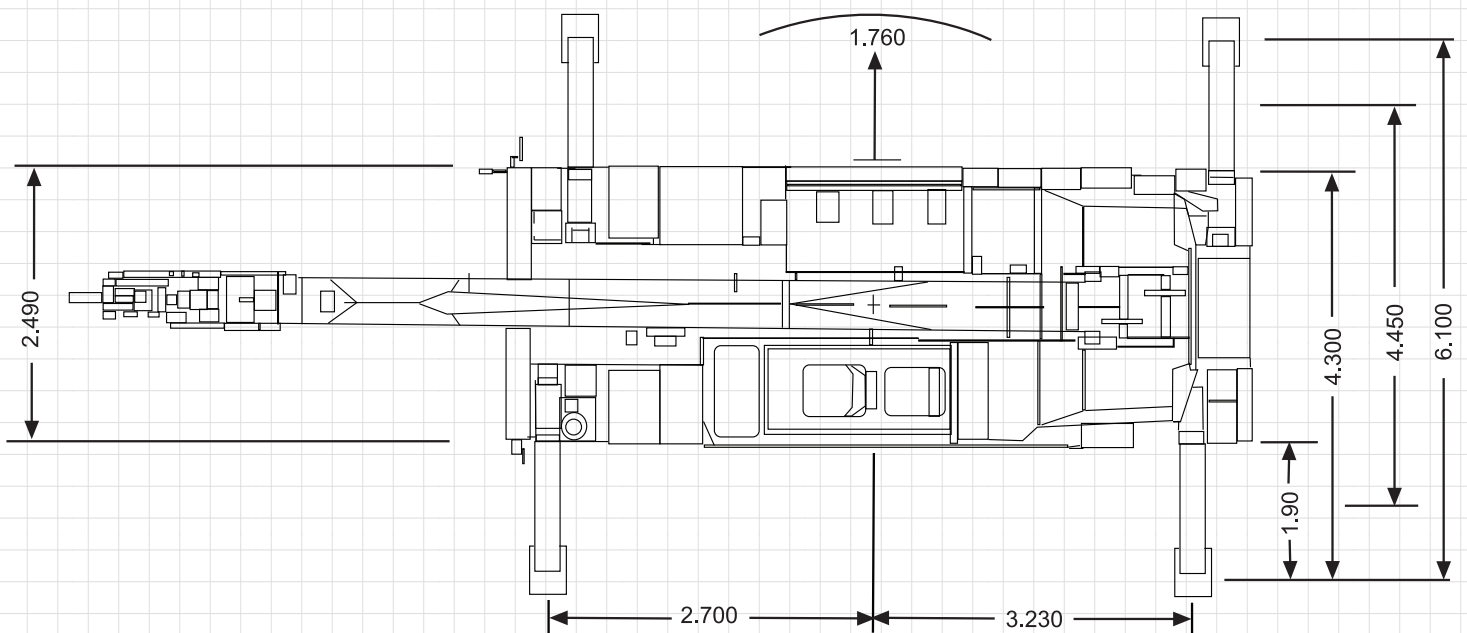
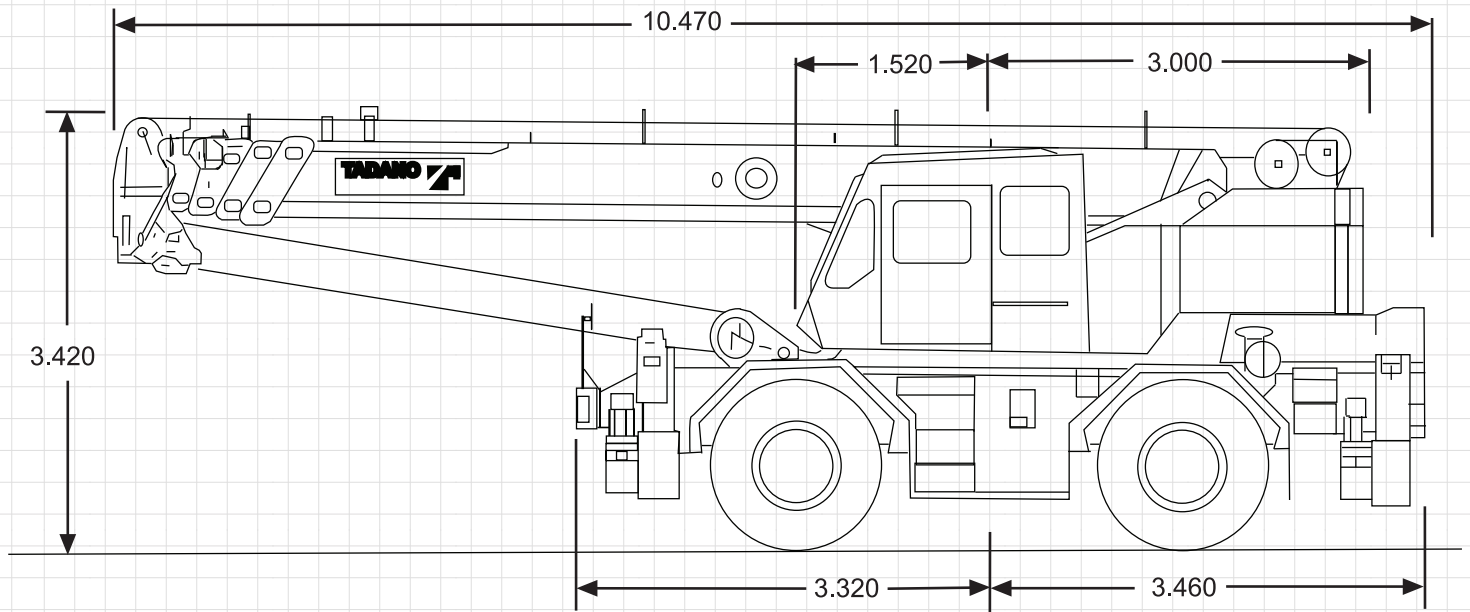


**20**  
Tonne  
Rough  
Terrain  
Crane

**20**  
Tonne

Rough  
Terrain  
Crane

## 20 Tonne Dimensions



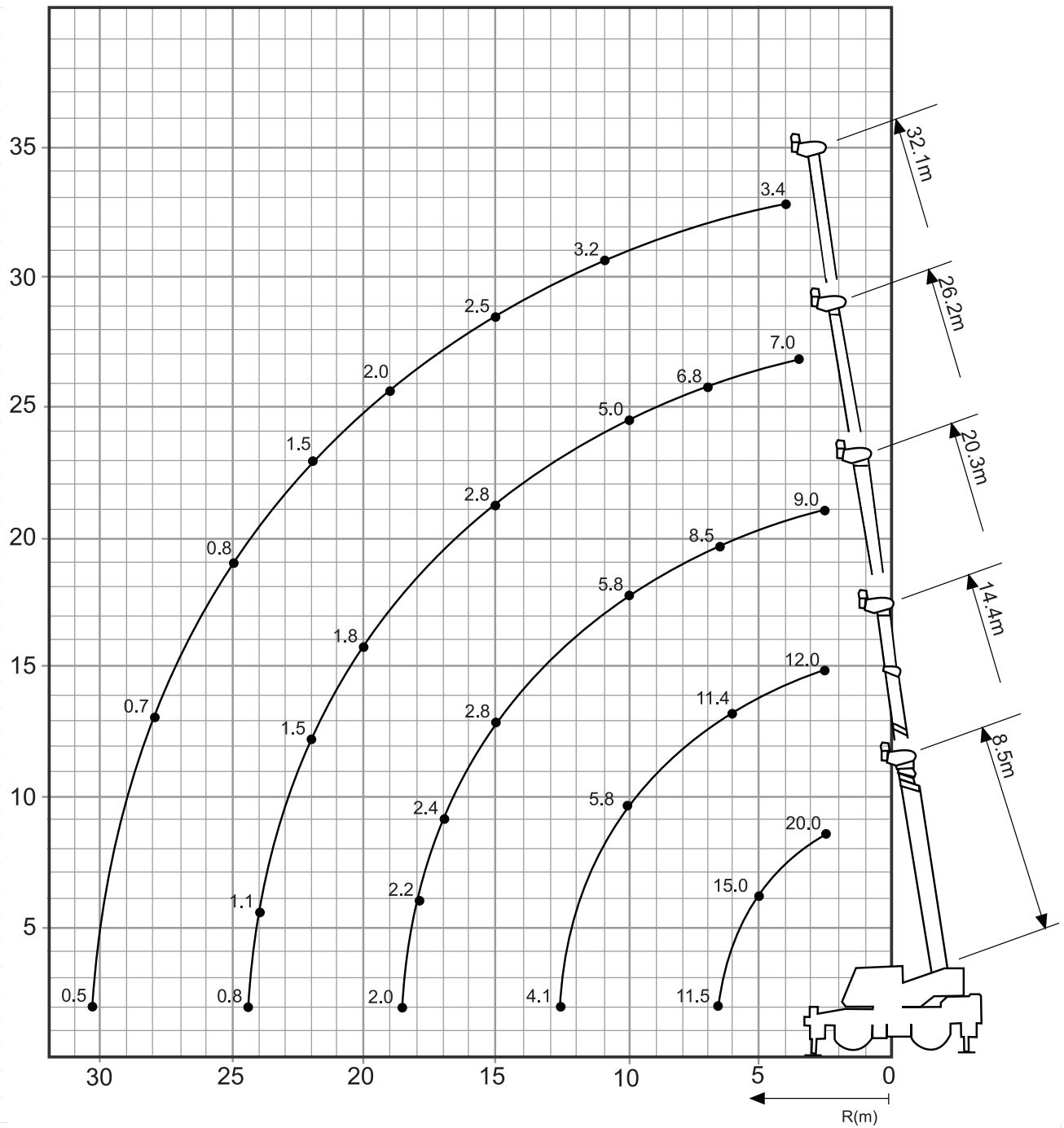
**20**  
Tonne

Rough  
Terrain  
Crane

**Safety first.  
McLeod first.**



## 20 Tonne Working Range



**25**  
Tonne

City Crane



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**Kato CR250**

**Lift Capacity:** 25.0 Tonne  
**Boom Length:** 28.0 m  
**Fly Length:** 5.4-8.2 m

**Main Hook Weight:** 180 Kg  
**Aux Hook Weight:** 100 Kg  
**Line Pull:** 2.6 Tonne

## 25 Tonne Rating Chart

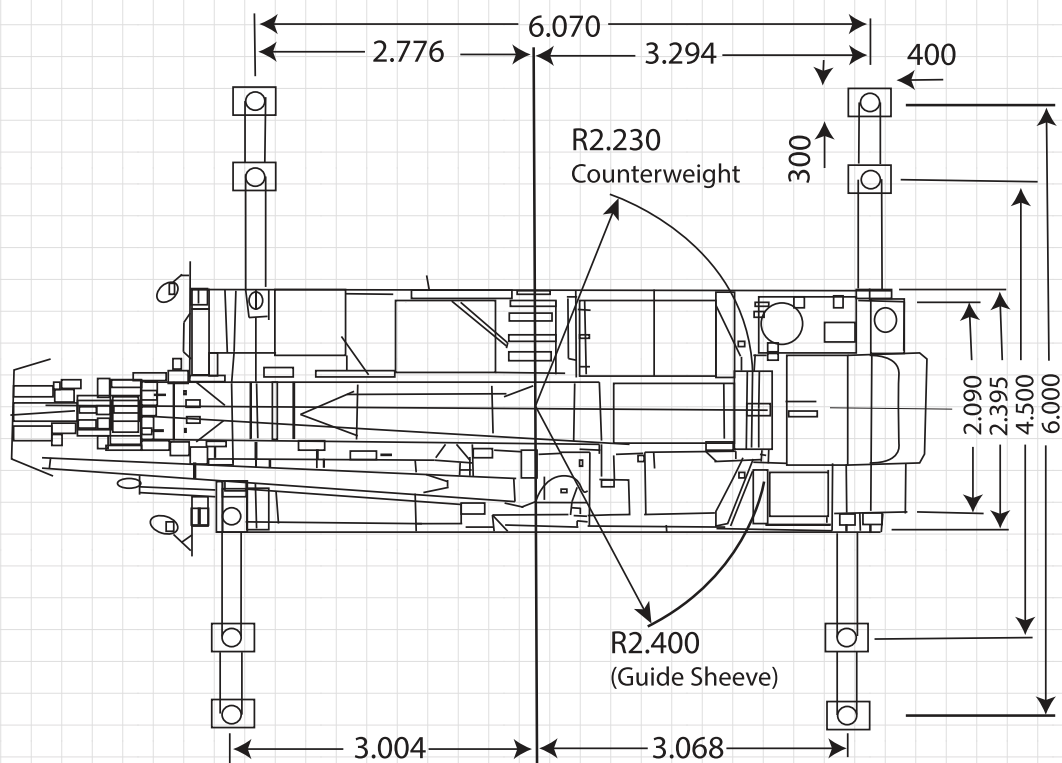
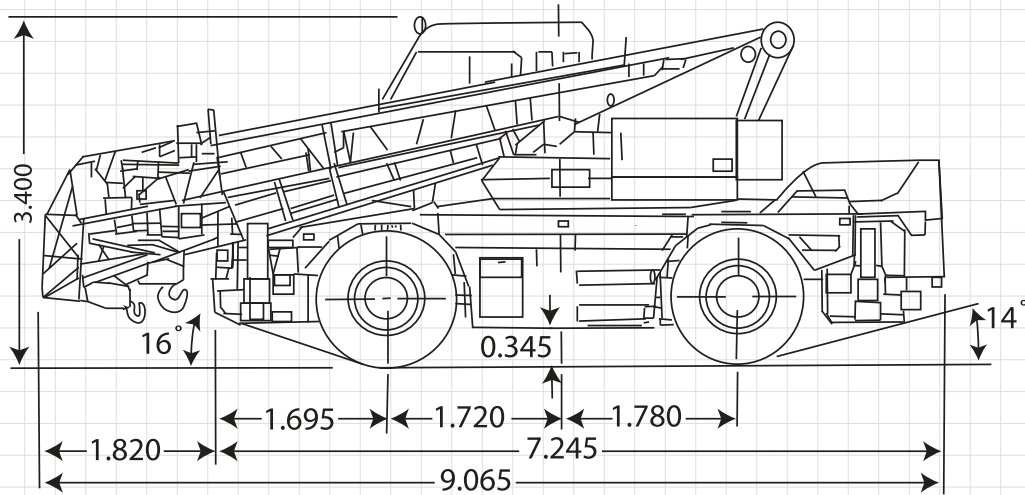
CR-250 Crane															
Outriggers fully extended (6.0m) 360° full range					Outrigger intermediately extended (4.5m) 360° full range					Outriggers completely retracted (blocked on vertical cylinders) 360° full range					
m	6.7	11	15.2	21.6	28	6.7	11	15.2	21.6	28	6.7	11	15.2	21.6	28
2.8	25	12	12			25	12	12			10	9.5	7.9		
3.0	22	12	12	8		22	12	12	8		8.75	8.45	7.15	6.5	
3.5	20	12	12	8		20	12	12	8		6.6	6.3	5.65	5.45	
4.0	17	12	12	8	6.5	17	12	12	8	6.5	5.1	4.85	4.55	4.55	4.25
4.5	15	12	12	8	6.5	15	12	12	8	6.5	4.1	3.85	3.7	3.8	3.65
5		12	12	8	6.5		12	12	8	6.5		3.1	3	3.2	3.15
5.5		12	12	8	6.5		9.8	9.7	8	6.5		2.5	2.4	2.7	2.7
6		12	11.5	8	6.5		8.2	8.1	8	6.5		2.05	1.95	2.3	2.35
6.5		11.3	10.6	8	6.5		7	6.85	7.25	6.5		1.6	1.55	1.95	2
7		10.15	9.9	7.85	6.5		6	5.95	6.55	6.5		1.25	1.2	1.65	1.75
8		7.9	7.8	7.1	5.9		4.6	4.5	5.1	5.4		0.7	0.6	1.15	1.3
9		6.2	6.1	6.35	5.35		3.6	3.45	4.05	4.4					
10			4.9	5.45	4.8			2.65	3.3	3.6					
11			4	4.6	4.3			2.05	2.65	3					
12			3.25	3.85	3.85			1.55	2.15	2.5					
13			3.65	3.3	3.5			1.15	1.75	2.1					
14				2.8	3.1				1.4	1.75					
15				2.35	2.7				1.15	1.45					
16				2	2.35				0.9	1.2					
17				1.7	2				0.7	0.95					
18				1.45	1.75				0.5	0.8					
19				1.2	1.5				0.35	0.6					
20			(19.7m)	1.05	1.3					0.45					
21					1.15					0.35					
22					0.95										
23					0.8										
24					0.7										
25					0.6										
26					0.5										
standard hook	25 ton optional	for 22 ton					for 22 ton				25 ton optional	for 22 ton			
Hook Mass	200kg	200kg				200kg	200kg				200kg	200kg			
Parts of Line	7	4				7	4				7	4			
Critical Boom Angle	--	--	--	--	--	--	--	--	--	35°	--	20°	51°	62°	69°

**25**  
Tonne

City Crane



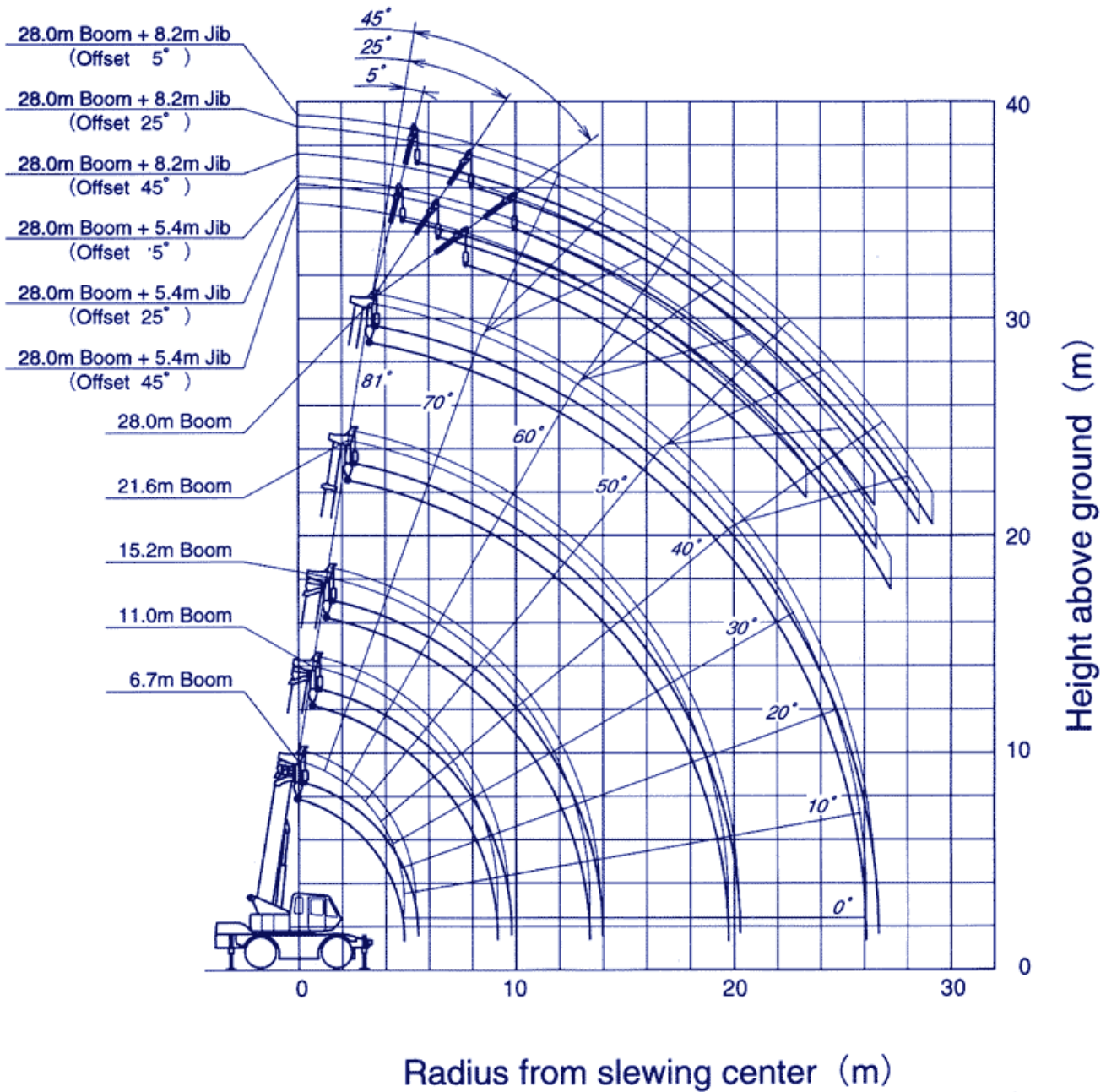
## 25 Tonne Dimensions



25  
Tonne

City Crane

## 25 Tonne Working Range



Note : This diagram does not include deflection of Boom and Fly Jib.

25  
Tonne

City Crane

**Safety first.  
McLeod first.**

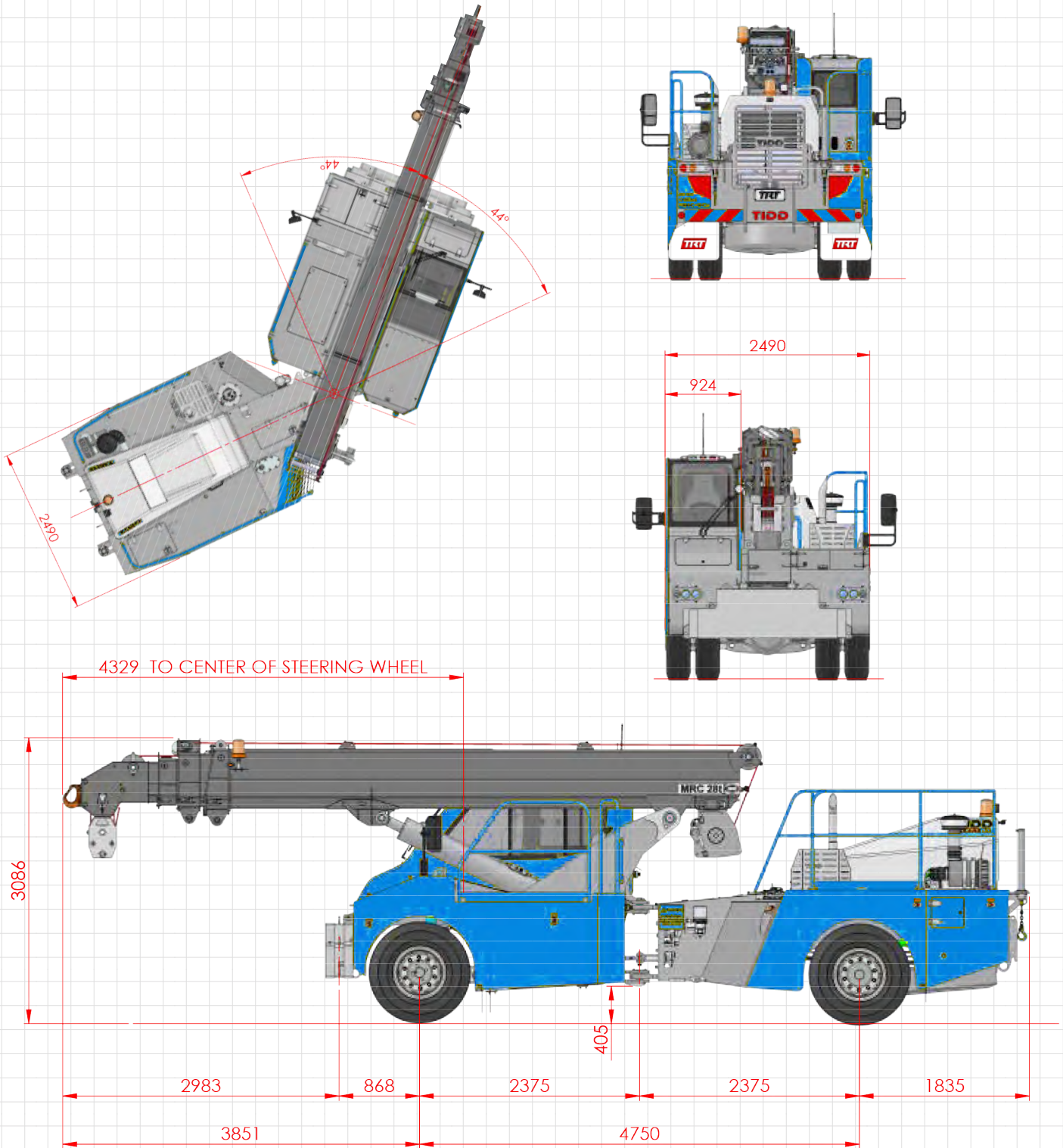


28

Tonne

Pick & Carry  
Crane

## 28 Tonne Dimensions



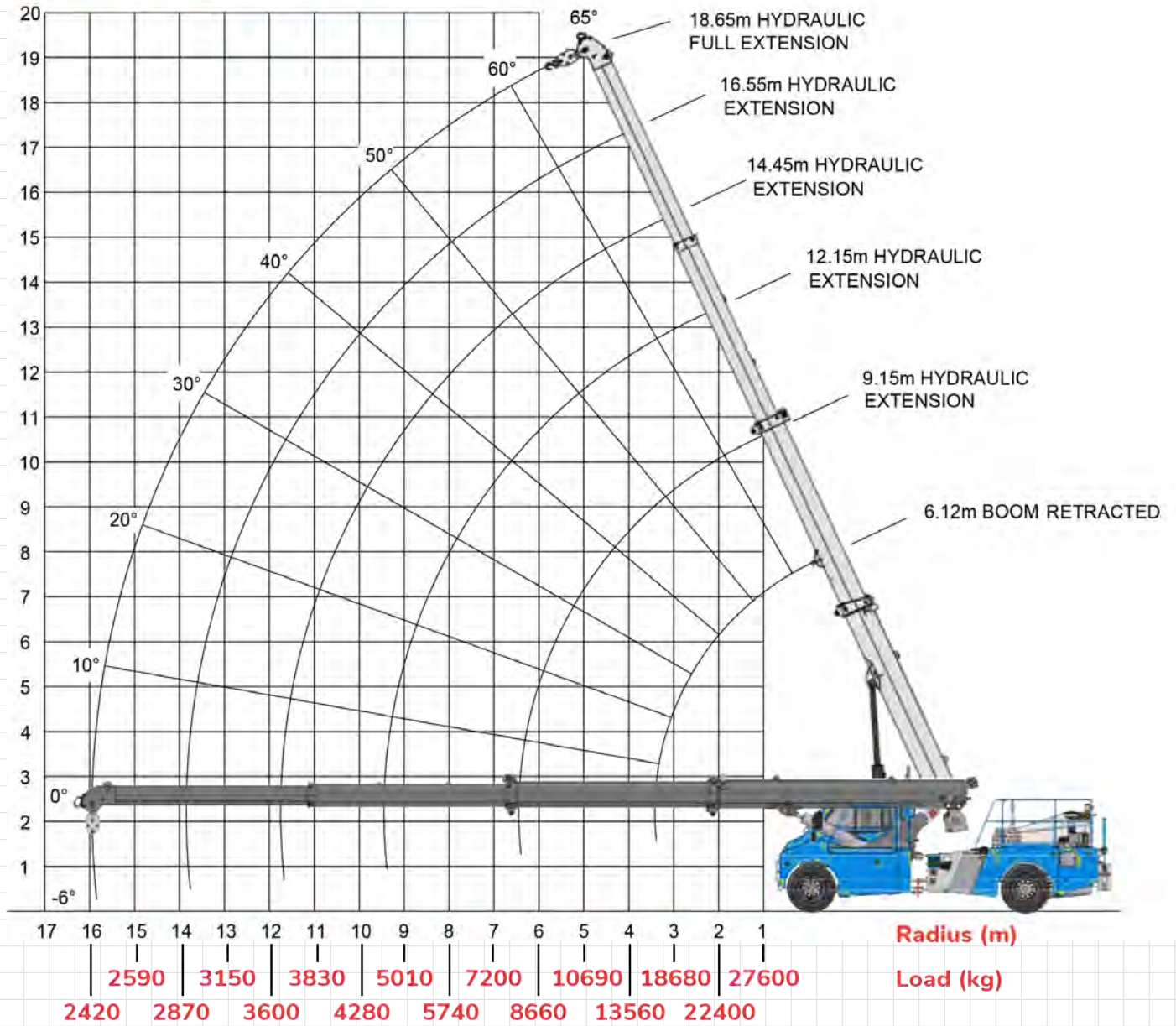
28

Tonne

Pick & Carry  
Crane

**Safety first.  
McLeod first.**

## 28 Tonne Working Range



NOTE: Rated capacity values shown are for the stationary chart on the hook.



**+12%  
Capacity!**

**TIDD  
CRANE IIII**



# SUPERLIFT

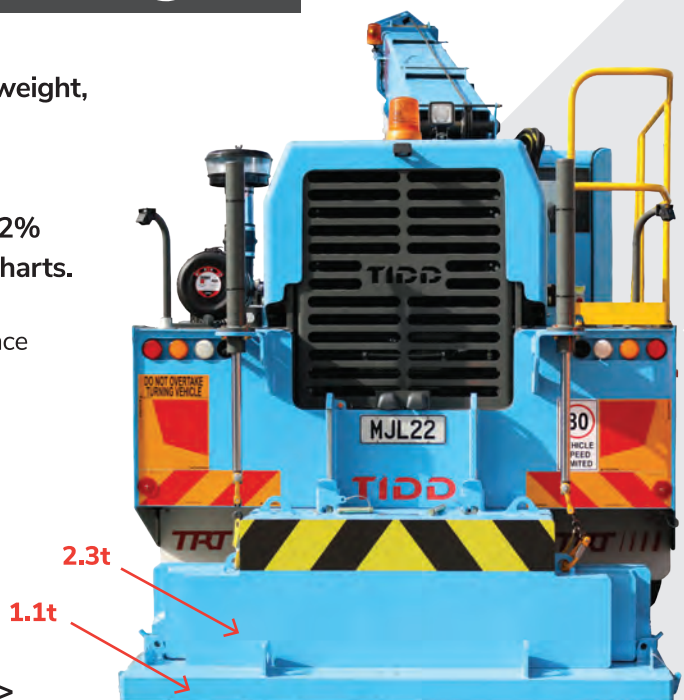
## counterweight

When fitted to the base of the 2.3t roadable counterweight, the optional 1.1t superlift counterweight simply and effectively increases the capacity of the crane.

The Superlift counterweight allows you to lift up to 12% heavier loads in both pick & carry and on stationary charts.

- 1.1t allows transport on trucks under 3.5t with car licence
- Fast and easy to set up
- Simple to use
- Proximity sensor auto-sensed for safety
- Operator-friendly loading system
- Up to 12% increased capacity

**TIDD PC28 shows counterweight being loading >>**







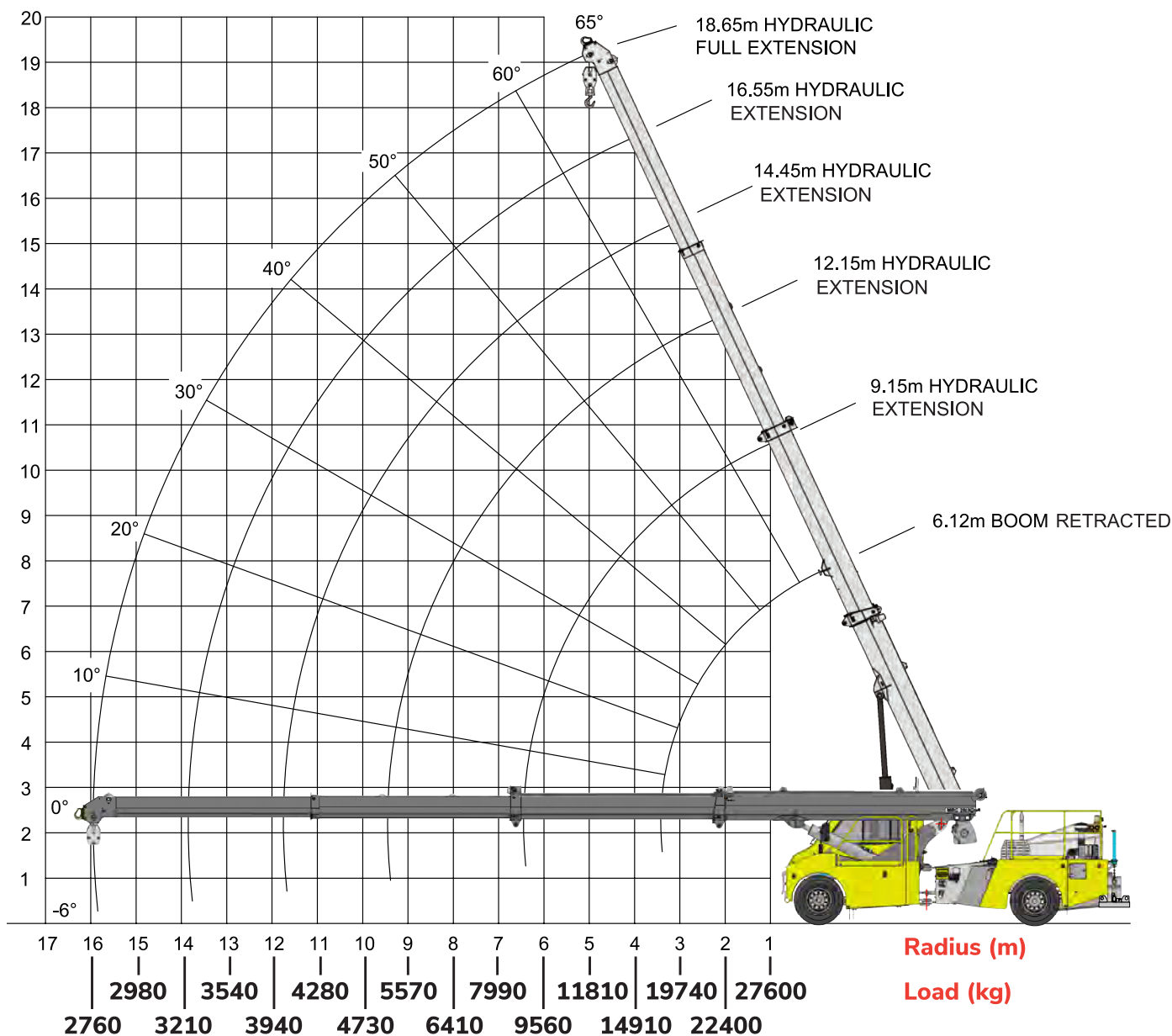


**28**  
Tonne

Pick & Carry  
Crane

# 28 Tonne SUPERLIFT Working Range

## WORKING RANGE With 2.3t Counterweight and 1.1t Superlift Counterweight on Rear



NOTE: Rated capacity values shown are for the stationary chart on the hook.



**28**  
Tonne

Pick & Carry  
Crane

**35**  
Tonne

Truck Crane



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**Tadano TM3100**

**Lift Capacity:** 31.0 Tonne  
**Boom Length:** 30.5 m  
**Fly Length:** 8.6-15.2 m

**Main Hook Weight:** 220 Kg  
**Aux Hook Weight:** 100 Kg  
**Line Pull:** 3.8 Tonne

## 35 Tonne Rating Chart

ON OUTRIGGERS FULLY EXTENDED 7.2m (23' 7 1/2") + FRONT STABILIZER EXTENDED (360°) ON OUTRIGGERS FULLY EXTENDED 7.2m (23' 7 1/2") (OVER SIDES AND REAR)												
A B	9.35 (30.7ft)		13.6 (44.7ft)		17.8 (58.5ft)		22.1 (72.4ft)		26.3 (86.2ft)		30.5 (100ft)	
	C	C	C	C	C	C	C	C	C	C	C	
1.83	75.6	31.7										
2.44	71.6	27.7										
3.05	67.4	24.3	75.3	14.5								
3.66	63.1	21.8	72.6	14.5	77.3	12.2						
4.57	56.3	18.4	68.6	14.5	74.4	12.2	78.0	10.0				
6.10	42.9	13.6	61.3	13.6	69.3	12.0	74.1	9.8	77.1	7.7	79.5	7.0
7.62			53.3	10.3	63.9	10.4	70.0	8.6	73.9	7.6	76.9	6.6
9.14			44.1	7.6	58.0	7.8	65.7	7.7	70.5	6.8	74.0	5.9
10.67			32.5	5.9	51.6	6.1	61.0	6.2	66.9	6.1	71.1	5.3
12.12					44.8	4.9	56.3	5.0	63.2	5.0	68.2	4.9
13.72					36.2	4.0	50.8	4.1	59.0	4.1	64.8	4.2
15.24					25.4	3.3	45.1	3.4	54.7	3.5	61.3	3.5
16.76							38.7	2.9	50.3	2.9	57.8	3.0
18.29							30.9	2.4	45.4	2.5	54.1	2.5
19.81									40.1	2.1	50.1	2.1
21.34									34.0	1.8	46.0	1.8
22.86									26.6	1.6	41.5	1.6
24.38											36.5	1.4
25.91											30.6	1.1
27.43											23.3	0.9
28.96											10.7	0.7
D	0											

ON OUTRIGGERS FULLY EXTENDED 7.2m (23' 7 1/2") + FRONT STABILIZER EXTENDED (360°) ON OUTRIGGERS FULLY EXTENDED 7.2m (23' 7 1/2") (OVER SIDES AND REAR)												
A C	9.35 (30.7ft)		13.6 (44.7ft)		17.8 (58.5ft)		22.1 (72.4ft)		26.3 (86.2ft)		30.5 (100ft)	
	B	B	B	B	B	B	B	B	B	B	B	
0	7.99	6.8	12.23	4.5	16.46	2.3	20.70	1.4	24.90	0.9	29.13	0.7

A: Boom length in meters  
C: Loaded boom angle (°)

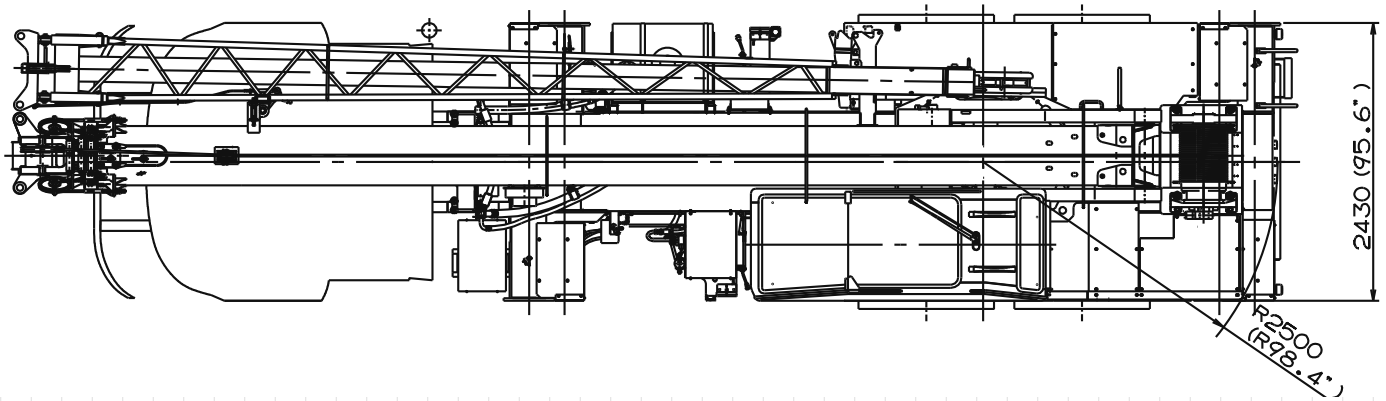
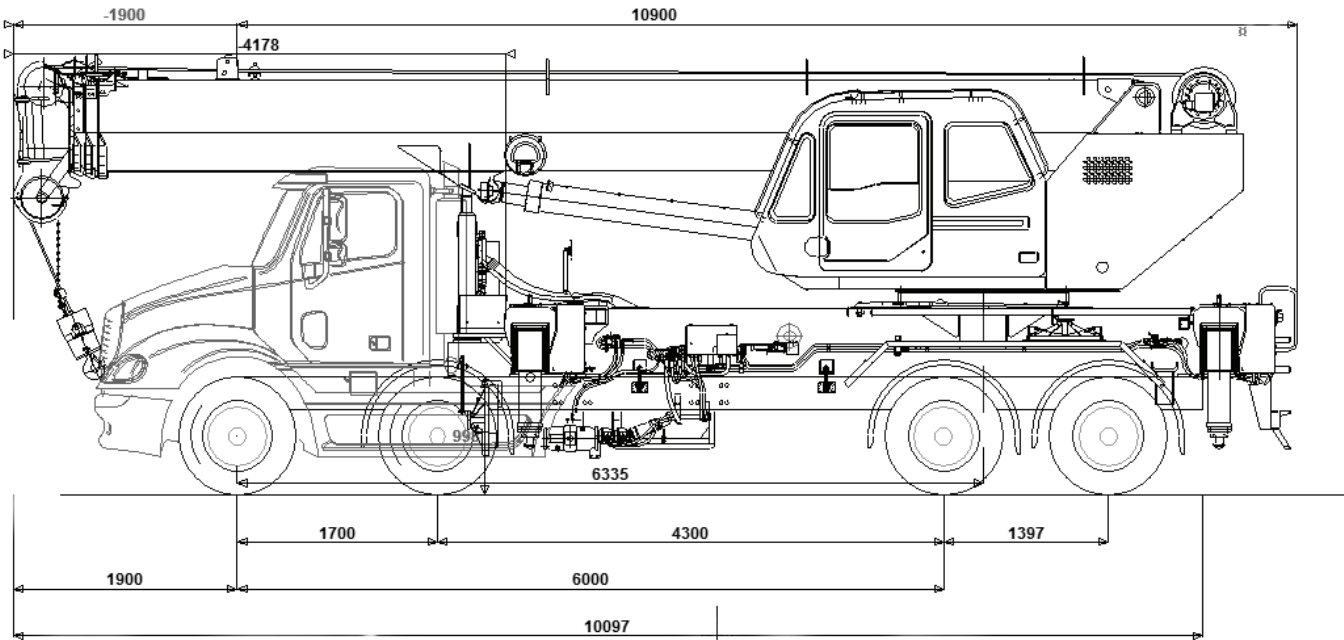
B: Load radius in meters  
D: Minimum boom angle (°) for indicated length (no load)

**35**  
Tonne

Truck Crane



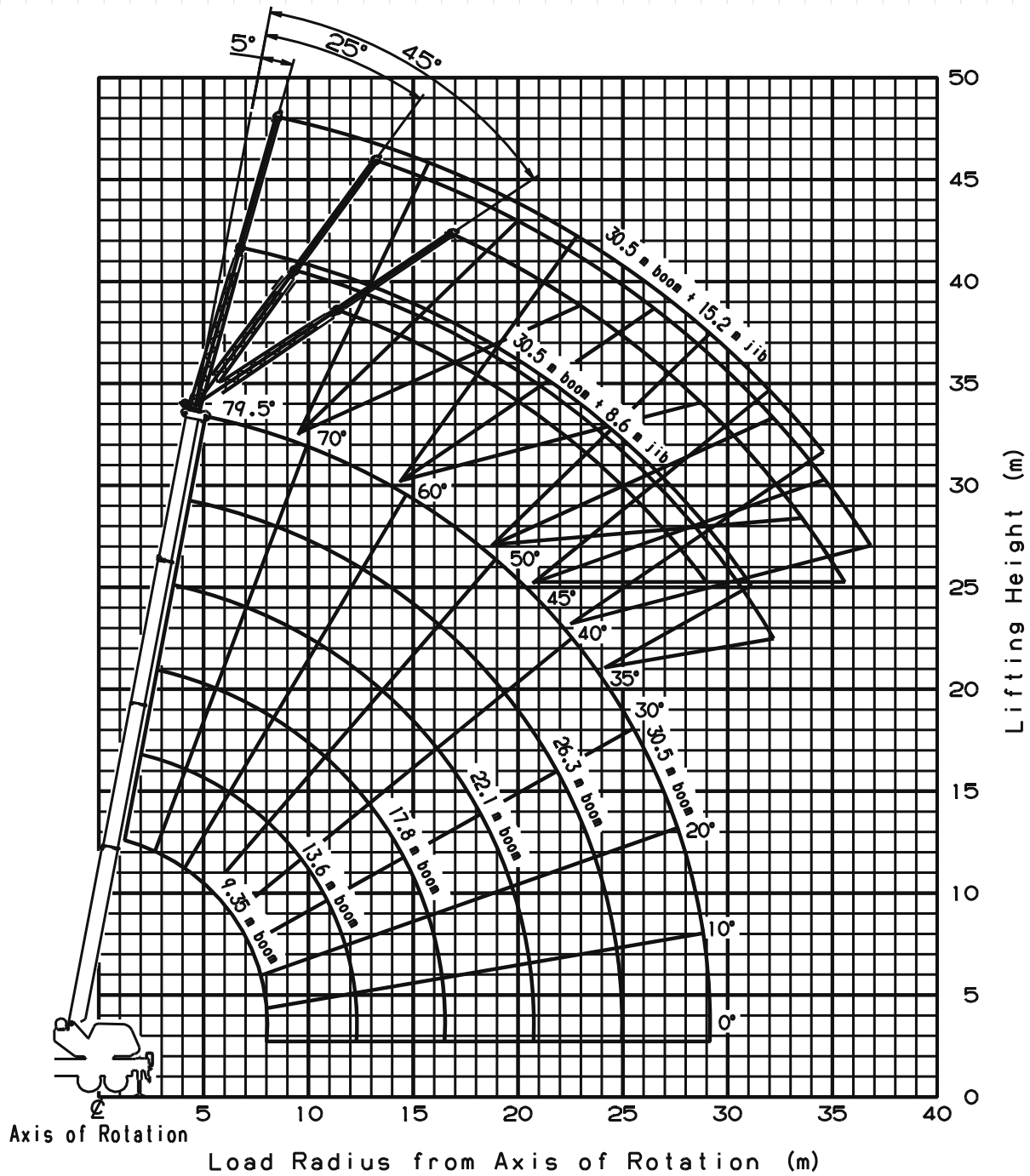
# 35 Tonne Dimensions



35  
Tonne

Truck Crane

## 35 Tonne Working Range



35  
Tonne

Truck Crane

**Safety first.  
McLeod first.**



# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 40 Tonne

All Terrain Crane

### Liebherr LTM1040 2.1

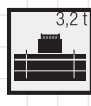
**Lift Capacity:** 40.0 Tonne  
**Boom Length:** 35.0 m  
**Fly Length:** 9.5 m

**Main Hook Weight:** 165 Kg  
**Aux Hook Weight:** 75 Kg  
**Line Pull:** 3.4 Tonne

## 40 Tonne Rating Chart

### 3.2 Tonne Counterweight

On Road Configuration



	10,5 m	15,4 m	20,3 m	25,2 m	30,1 m	32,6 m	35 m	
		**	**	**	**	**	**	
3	30,4	19,7	15,4					3
3,5	27,7	20,2	15,5	17,5	13,1			3,5
4	25,2	20,6	15,6	18	13	15,1	10,4	4
4,5	23,1	21,2	15,9	18,3	13	14,8	10,3	4,5
5	21,2	21	16,1	18,3	12,8	14,3	10,2	5
6	17	16,6	16,1	15,3	12,5	13,3	10	6
7	12,9	13,3	13,3	12,4	12,2	11,7	9,9	7
8		10,6	10,6	10,4	10,4	9,8	9,6	8
9		8,6	8,6	8,8	8,8	8,4	8,4	9
10		7,2	7,2	7,4	7,4	7,3	7,3	10
11		6,1	6,1	6,3	6,3	6,4	6,4	11
12		5,3	5,3	5,4	5,4	5,5	5,5	12
13				4,7	4,7	4,8	4,8	13
14				4,2	4,2	4,2	4,2	14
15				3,7	3,7	3,8	3,8	15
16				3,2	3,2	3,3	3,3	16
17				2,9	2,9	3	3	17
18						2,6	2,6	18
19						2,3	2,3	19
20						2,1	2,1	20
21						1,9	1,9	21
22						1,7	1,7	22
23						1,5	1,5	23
24						1,3	1,3	24
25						1,2	1,2	25
26						1,1	1,1	26
27						0,9	0,9	27
28							0,8	28
29							0,7	29
30							0,6	30

\*\* teleskopierbare Lasten · telescopable loads · capacités de levage en télescopage · portate del braccio in estensione · cargas telescópicas · телескопирование под нагрузкой

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## 40 Tonne

All Terrain Crane

# 40

Tonne

All Terrain  
Crane

## 40 Tonne Rating Chart

### 6.5 Tonne FULL Counterweight

Requires Delivery of Counterweight



Lift Height (m)	10,5 m		15,4 m		20,3 m		25,2 m		30,1 m		32,6 m		35 m		Lift Height (m)
	*			**		**		**		**		**		**	
2,5	40														2,5
3	35,4	30,6	19,7	15,4											3
3,5	32,9	28,2	20,2	15,5	17,5	13,1									3,5
4	29,8	25,6	20,6	15,6	18	13	15,1	10,4							4
4,5	26,7	23,5	21,2	15,9	18,3	13	14,8	10,3	10,7	7,5					4,5
5	24,3	21,6	21,3	16,1	18,8	12,8	14,3	10,2	10,6	7,4	9	5,6			5
6	20	18,5	18,8	16,4	18,7	12,5	13,3	10	10,2	7,2	8,8	5,4	7,4	3,7	6
7	15,6	15,4	15,7	15,6	15,3	12,4	12,4	9,9	9,6	7	8,5	5,2	7,2	3,5	7
8			13	13	12,8	12,3	11,5	9,7	8,9	6,8	8,1	5	6,9	3,3	8
9			10,7	10,7	10,8	10,8	10,4	9,2	8,4	6,5	7,7	4,8	6,6	2,8	9
10			9	9	9,1	9,1	9,1	8,9	7,9	6	7,3	4,6	6,3	2,6	10
11			7,7	7,7	7,8	7,8	7,9	7,9	7,4	5,8	6,9	4,5	6,1	2,5	11
12			6,7	6,7	6,8	6,8	6,9	6,9	6,9	5,7	6,5	4,3	5,8	2,4	12
13					6	6	6,1	6,1	6,1	5,6	6,1	4,2	5,6	2,3	13
14					5,3	5,3	5,4	5,4	5,4	5,3	5,5	4,1	5,4	2,2	14
15					4,7	4,7	4,8	4,8	4,9	4,9	4,9	3,9	4,9	2,1	15
16					4,3	4,3	4,3	4,3	4,4	4,4	4,4	3,8	4,4	2	16
17					3,8	3,8	3,9	3,9	3,9	3,9	4	3,7	4	1,9	17
18							3,5	3,5	3,6	3,6	3,6	3,6	3,6	1,8	18
19							3,2	3,2	3,3	3,3	3,3	3,3	3,3	1,6	19
20							2,9	2,9	3	3	3	3	3	1,4	20
21							2,7	2,7	2,7	2,7	2,7	2,7	2,8	1,2	21
22							2,5	2,5	2,5	2,5	2,5	2,5	2,5	1,1	22
23									2,3	2,3	2,3	2,3	2,3	0,9	23
24									2,1	2,1	2,1	2,1	2,1	0,8	24
25									1,9	1,9	1,9	1,9	1,9	0,7	25
26									1,7	1,7	1,7	1,7	1,8		26
27									1,5	1,5	1,6	1,6	1,6		27
28											1,4	1,4	1,5		28
29											1,3	1,3	1,3		29
30													1,2		30
31													1,1		31

\* nach hinten · over rear · en arrière · sul posteriore · hacia atrás · стрела повернута назад

\*\* teleskopierbare Lasten · telescopic loads · capacités de levage en télescopage · portate del braccio in estensione · cargas telescópicas · телескопирование под нагрузкой

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# 40

Tonne

All Terrain  
Crane





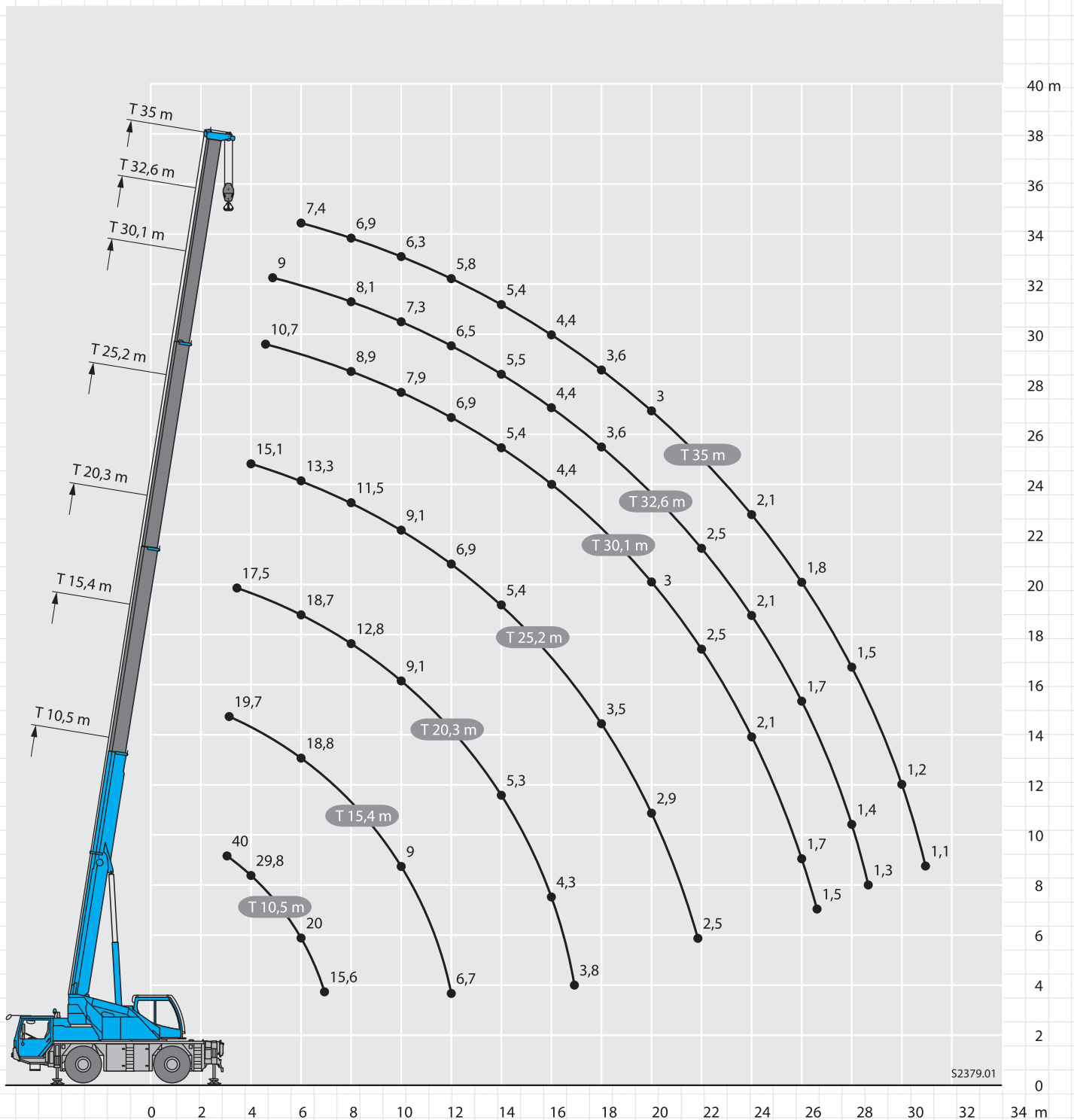
40 Tonne

All Terrain Crane

# 40 Tonne Working Range

## 6.5 Tonne FULL Counterweight

Requires Delivery of Counterweight



S2379.01



40 Tonne

All Terrain Crane

# 40

Tonne

All Terrain  
Crane

## 40 Tonne Fly Rating Chart

### 6.5 Tonne FULL Counterweight + Fly

Requires Delivery of Counterweight



Crane Height	10,5 m 9,5 m				25,2 m 9,5 m								30,1 m 9,5 m								Crane Height	
	0°	20°	40°	60°	0°	**	20°	**	40°	**	60°	**	0°	**	20°	**	40°	**	60°	**		
3	6																					3
3,5	6																					3,5
4	6	4,2																				4
4,5	6	4			6	6																4,5
5	5,9	3,9			6	6																5
6	5,3	3,4			6	6							5	5								6
7	4,9	3,1	2,9		5,7	5,7							4,9	4,9								7
8	4,5	2,9	2,7		5,3	5,3	4	4					4,8	4,8								8
9	4,1	2,7	2,5	2,4	5	5	3,8	3,8					4,5	4,5	3,5	3,5						9
10	3,8	2,5	2,4	2,3	4,8	4,8	3,5	3,5	2,9	2,9			4,3	4,3	3,2	3,2						10
11	3,5	2,4	2,3	2,3	4,5	4,5	3,3	3,3	2,8	2,8			4,1	4,1	3	3						11
12	3,2	2,2	2,2	2,3	4,2	4,2	3,1	3,1	2,7	2,7	2,3	2,3	3,9	3,9	2,9	2,9	2,5	2,5				12
13	3	2,1	2,1		4	4	3	3	2,6	2,6	2,3	2,3	3,7	3,7	2,8	2,8	2,5	2,5	2,3	2,3		13
14	2,7	2	2		3,8	3,8	2,9	2,9	2,5	2,5	2,3	2,3	3,4	3,4	2,7	2,7	2,4	2,4	2,2	2,2		14
15	2,5	2			3,5	3,5	2,7	2,7	2,5	2,5	2,3	2,3	3,2	3,2	2,6	2,6	2,3	2,3	2,2	2,2		15
16	2,3	1,9			3,3	3,3	2,6	2,6	2,4	2,4	2,2	2,2	3	3	2,5	2,5	2,3	2,3	2,1	2,1		16
17					3,1	3,1	2,6	2,6	2,3	2,3	2,2	2,2	2,9	2,9	2,4	2,4	2,2	2,2	2,1	2,1		17
18					3	3	2,5	2,5	2,3	2,3	2,2	2,2	2,8	2,8	2,4	2,4	2,2	2,2	2	2		18
19					2,8	2,8	2,4	2,4	2,2	2,2	2,2	2,2	2,7	2,7	2,3	2,3	2,1	2,1	2	2		19
20					2,7	2,7	2,3	2,3	2,2	2,2			2,6	2,6	2,2	2,2	2,1	2,1	2	2		20
21					2,6	2,6	2,3	2,3	2,1	2,1			2,5	2,5	2,2	2,2	2	2	2	2		21
22					2,5	2,5	2,2	2,2	2,1	2,1			2,4	2,4	2,1	2,1	2	2	1,9	1,9		22
23					2,4	2,4	2,1	2,1	2,1	2,1			2,3	2,3	2	2	1,9	1,9				23
24					2,2	2,2	2,1	2,1	2	2			2,1	2,1	2	2	1,9	1,9				24
25					2	2	2	2	2	2			1,9	1,9	1,9	1,9	1,9	1,9				25
26					1,8	1,8	1,9	1,9					1,8	1,8	1,9	1,9	1,8	1,8				26
27					1,7	1,7	1,8	1,8					1,6	1,6	1,7	1,7	1,8	1,8				27
28					1,5	1,5	1,6	1,6					1,5	1,5	1,6	1,6	1,7	1,7				28
29					1,4	1,4	1,5	1,5					1,3	1,3	1,5	1,5	1,5	1,5				29
30					1,3	1,3	1,4	1,4					1,2	1,2	1,3	1,3						30
31					1,2	1,2							1,1	1,1	1,2	1,2						31
32													1	1	1,1	1,1						32
33													0,9	0,9	1	1						33
34													0,8	0,8	0,9	0,9						34
35													0,7	0,7								35
36													0,6	0,6								36

\*\* teleskopierbare Lasten · telescopic loads · capacités de levage en télescopage · portate del braccio in estensione  
cargas telescópicas · телескопирование под нагрузкой

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# 40

Tonne

All Terrain  
Crane

**Safety first.  
McLeod first.**

**40**  
Tonne

All Terrain  
Crane

# 40 Tonne Fly Rating Chart

## 6.5 Tonne FULL Counterweight + Fly

Requires Delivery of Counterweight



Jib Length	32,6 m 9,5 m								35 m 9,5 m								Jib Length
	0°	**	20°	**	40°	**	60°	**	0°	**	20°	**	40°	**	60°	**	
7	4,4	4,4															7
8	4,3	4,2							3,9	2,3							8
9	4,2	4							3,8	2,2							9
10	4	3,8	3,2	3,1					3,7	2							10
11	3,9	3,6	3	3					3,5	1,9	2,8	1,8					11
12	3,7	3,5	2,9	2,9					3,3	1,8	2,7	1,7					12
13	3,5	3,3	2,8	2,8	2,4	2,4			3,2	1,7	2,6	1,6					13
14	3,3	2,9	2,7	2,7	2,3	2,3	2,1	2,1	3	1,6	2,5	1,5	2,2	1,5			14
15	3,2	2,7	2,6	2,6	2,2	2,2	2,1	2,1	2,9	1,5	2,5	1,4	2,2	1,4	2	1,4	15
16	3	2,6	2,5	2,5	2,2	2,2	2,1	2,1	2,8	1,4	2,4	1,4	2,1	1,3	2	1,3	16
17	2,8	2,5	2,4	2,4	2,1	2,1	2	2	2,7	1,2	2,3	1,3	2,1	1,3	1,9	1,2	17
18	2,7	2,4	2,3	2,3	2,1	2,1	2	2	2,6	1,1	2,2	1,2	2	1,2	1,9	1,1	18
19	2,6	2,4	2,2	2,2	2	2	1,9	1,9	2,5	0,9	2,2	1,1	2	1	1,9	1	19
20	2,5	2,3	2,2	2,2	2	2	1,9	1,9	2,4	0,8	2,1	0,9	1,9	0,9	1,8	0,9	20
21	2,4	2,2	2,1	2,1	1,9	1,9	1,9	1,9	2,3	0,7	2	0,8	1,9	0,8	1,8	0,8	21
22	2,3	2,2	2,1	2,1	1,9	1,9	1,9	1,9	2,3	0,5	2	0,7	1,8	0,7	1,8	0,7	22
23	2,2	2,1	2	2	1,9	1,9	1,8	1,8	2,2	0,4	1,9	0,6	1,8	0,6	1,8	0,6	23
24	2,1	2	2	2	1,8	1,8			2		1,9	0,5	1,8	0,5	1,7	0,5	24
25	1,9	1,9	1,9	1,9	1,8	1,8			1,9		1,8		1,7				25
26	1,7	1,7	1,9	1,9	1,8	1,8			1,7		1,8		1,7				26
27	1,6	1,6	1,8	1,8	1,7	1,7			1,5		1,7		1,7				27
28	1,4	1,4	1,6	1,6	1,7	1,7			1,4		1,6		1,6				28
29	1,3	1,3	1,5	1,5	1,5	1,5			1,3		1,4		1,5				29
30	1,2	1,2	1,3	1,3	1,4	1,4			1,2		1,3		1,4				30
31	1,1	1	1,2	1,2	1,3	1,3			1		1,2		1,3				31
32	1	0,9	1,1	1,1					0,9		1,1		1,1				32
33	0,9	0,8	1	1					0,8		1						33
34	0,8	0,7	0,9	0,9					0,7		0,9						34
35	0,7	0,6	0,8	0,8					0,6		0,8						35
36	0,6	0,5	0,7	0,7					0,6		0,7						36
37	0,5								0,5		0,6						37
38	0,5								0,4		0,5						38
39											0,4						39

\*\* teleskopierbare Lasten · telescopic loads · capacités de levage en télescope · portate del braccio in estensione  
cargas telescopables · телескопирование под нагрузкой

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**40**  
Tonne

All Terrain  
Crane

40

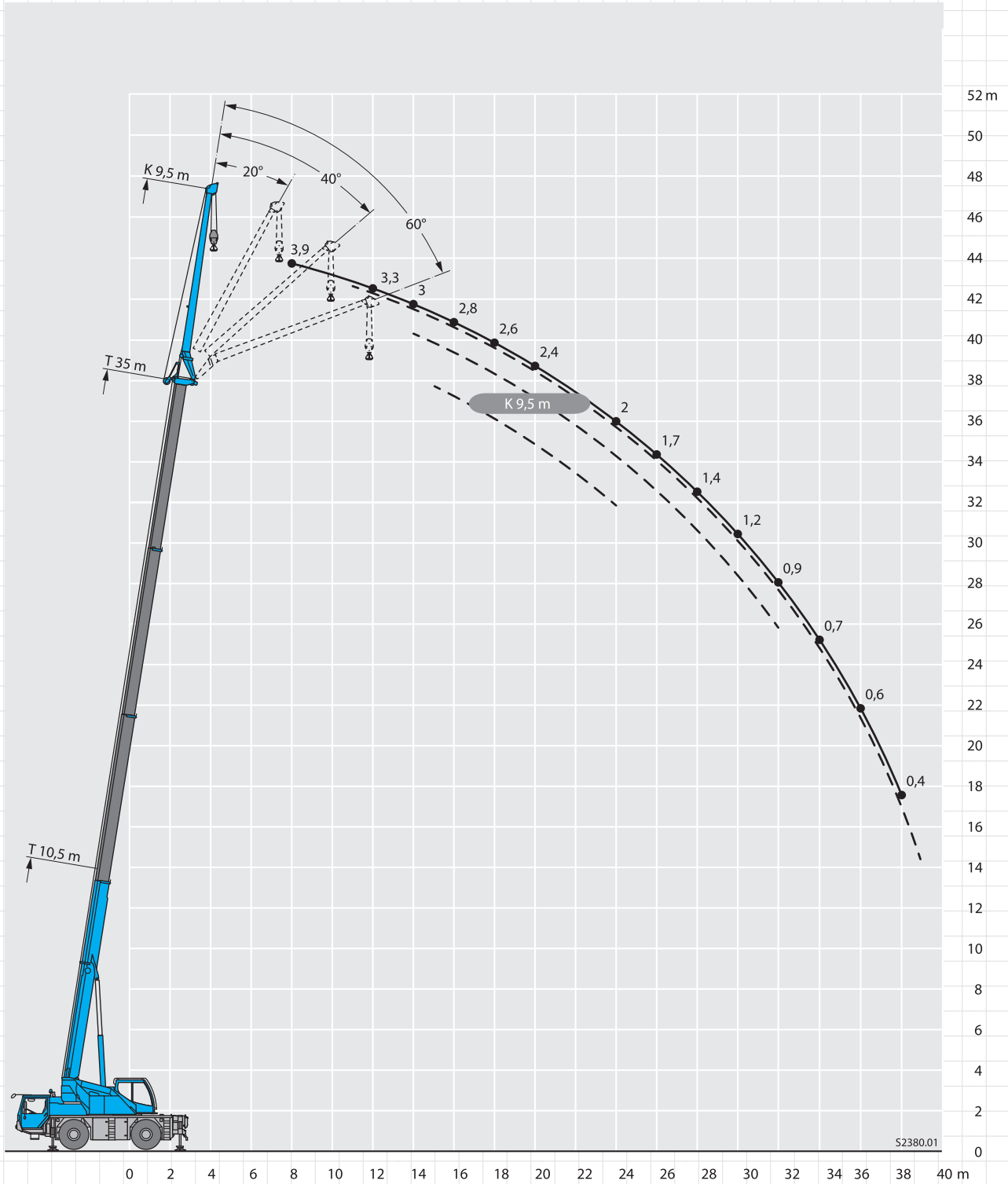
Tonne

All Terrain  
Crane

# 40 Tonne Fly Working Range

## 6.5 Tonne FULL Counterweight + Fly

Requires Delivery of Counterweight



40

Tonne

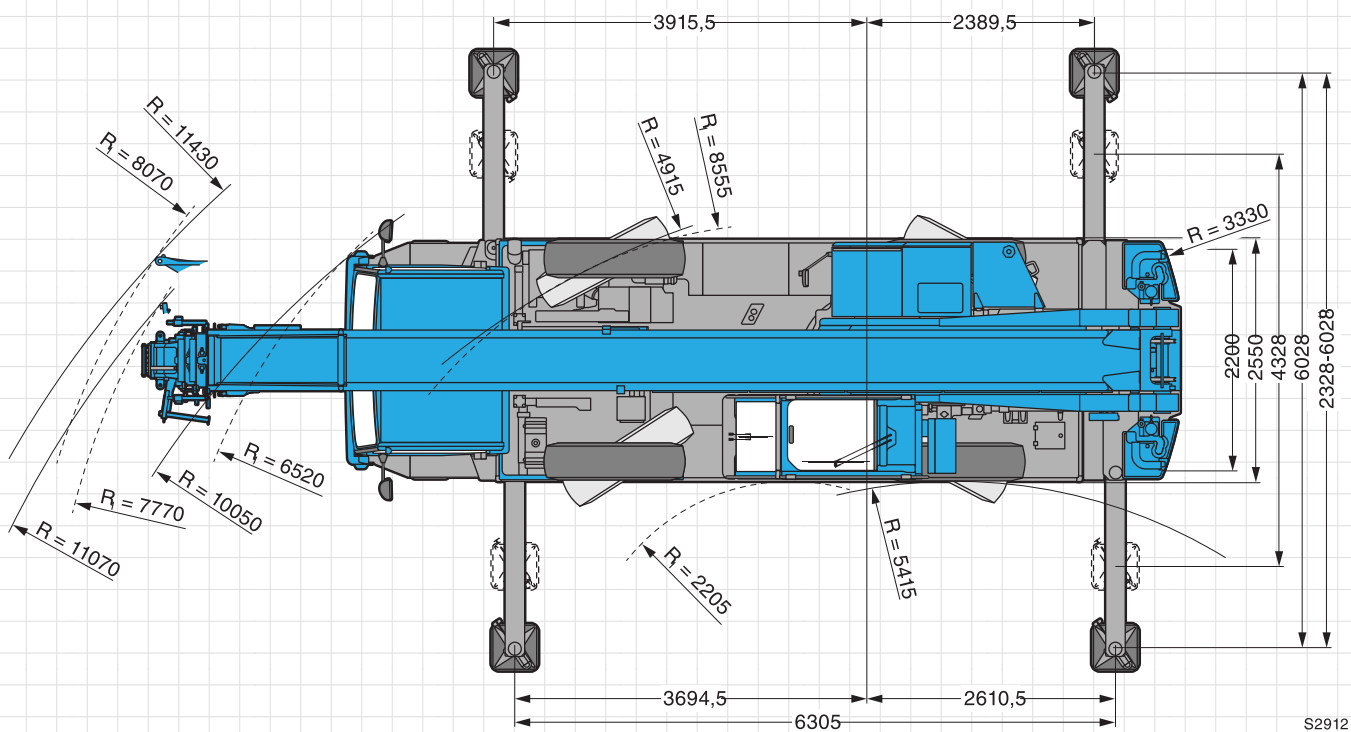
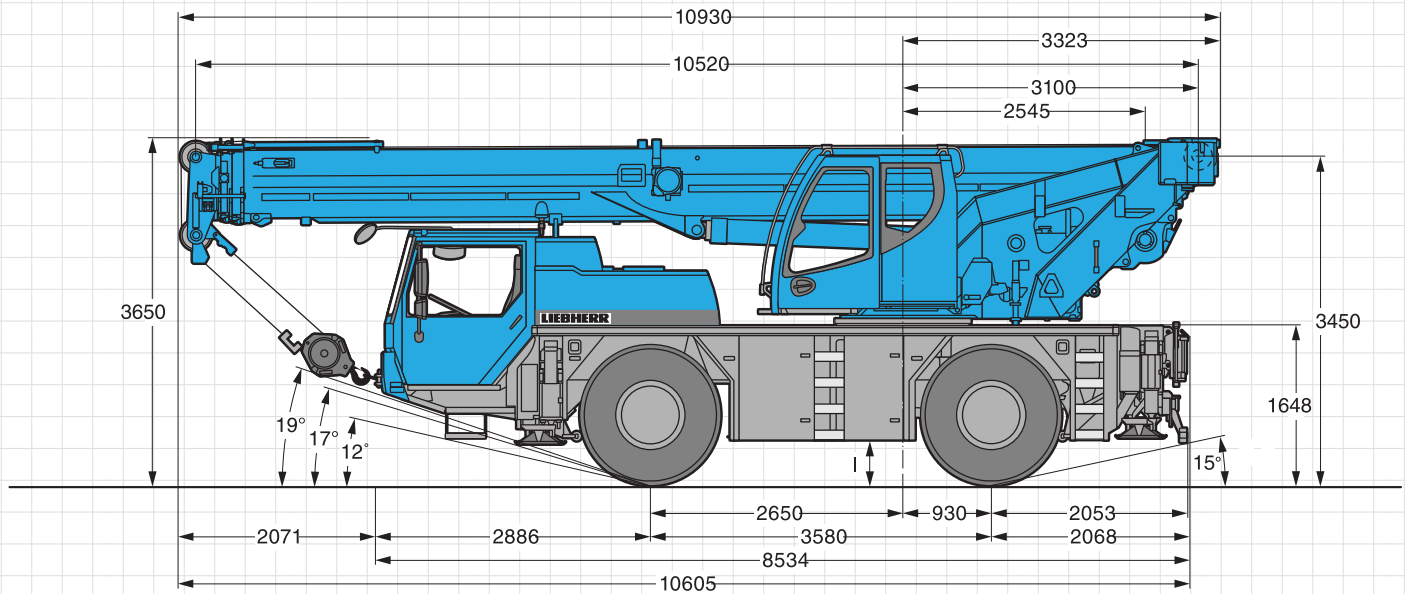
All Terrain  
Crane



**40**  
Tonne

All Terrain  
Crane

## 40 Tonne Dimensions



S2912



**40**  
Tonne

All Terrain  
Crane

**45**  
Tonne

Truck Crane



**MCLEOD**

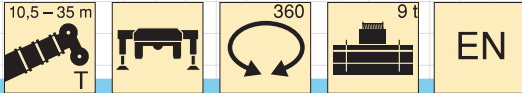
CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**LTF1045 4.1**

**Lift Capacity:** 45.0 Tonne  
**Boom Length:** 35.0 m  
**Fly Length:** 9.5 m

**Main Hook Weight:** 165 Kg  
**Aux Hook Weight:** 75 Kg  
**Line Pull:** 3.1 Tonne

## 45 Tonne Rating Chart



m	10,5 m		15,4 m		20,3 m		25,2 m		30,1 m		32,6 m		35 m		m
			**	**	**	**	**	**	**	**	**	**	**		
2,5	45													2,5	
3	35,4	18,9	15,5	16,9	13,4									3	
3,5	32	19,7	15,5	17,2	13,3									3,5	
4	29,2	20,1	15,5	17,5	12,8	14,9	10,7							4	
4,5	26,6	20,6	15,6	17,9	12,7	15,2	10,6							4,5	
5	24,4	21,1	15,7	18,2	12,6	15,4	10,5	11,3	7,8					5	
6	20,5	20,7	15,8	19	12,6	14,2	10,3	10,7	7,5	9,2	5,7			6	
7	17,4	17,6	16,6	17,7	12,5	12,8	10,1	10	7,3	8,9	5,5	7,4	3,8	7	
8	14,8	15,1	15,1	15,2	12,5	11,8	9,5	9,3	7,1	8,4	5,3	7,1	3,6	8	
9		13	13	13,1	12,5	10,9	9,4	8,5	6,9	7,9	5,1	6,7	3,1	9	
10		11,3	11,3	11,4	11,4	10,1	9,3	7,9	6,5	7,4	4,9	6,3	2,8	10	
11		10	10	10,1	10,1	9,5	9,2	7,4	6,1	7	4,7	6	2,7	11	
12		8,9	8,9	9	9	8,9	8,9	6,8	5,9	6,6	4,6	5,7	2,6	12	
13		8	8	8,1	8,1	8,2	8,2	6,4	5,8	6,1	4,4	5,5	2,4	13	
14				7,3	7,3	7,4	7,4	6,1	5,7	5,8	4,3	5,2	2,3	14	
15				6,6	6,6	6,6	6,6	5,8	5,6	5,5	4,2	5	2,2	15	
16				6	6	6	6	5,5	5,5	5,3	4,1	4,8	2,1	16	
17				5,4	5,4	5,5	5,5	5,2	5,2	5	4	4,6	2,1	17	
18						5	5	5	5	4,8	3,9	4,4	2	18	
19						4,6	4,6	4,6	4,6	4,6	3,8	4,3	1,9	19	
20						4,2	4,2	4,3	4,3	4,3	3,7	4,1	1,6	20	
21						3,9	3,9	3,9	3,9	4	3,7	3,9	1,4	21	
22						3,6	3,6	3,6	3,6	3,7	3,5	3,7	1,3	22	
23								3,4	3,4	3,4	3,4	3,4	1,1	23	
24								3,1	3,1	3,1	3,1	3,2	1	24	
25								2,9	2,9	2,9	2,9	2,9	0,9	25	
26								2,7	2,7	2,7	2,5	2,7	0,8	26	
27								2,5	2,5	2,5	2,2	2,5	0,7	27	
28										2,4	2	2,4		28	
29										2,2	1,7	2,2		29	
30										2	1,4	2		30	
31												1,9		31	
32												1,8		32	

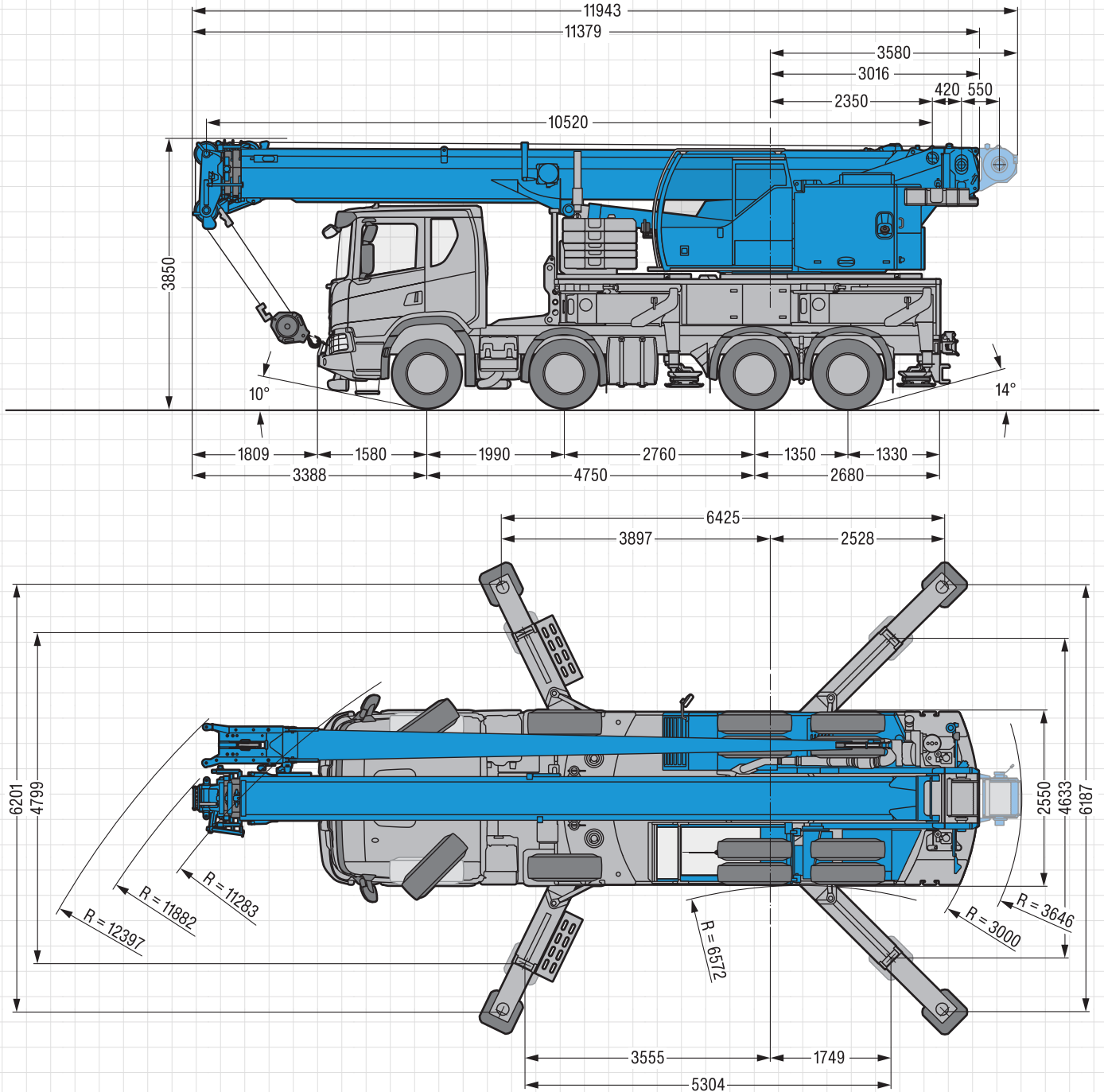
\*\* telescopic loads

**45**  
Tonne

Truck Crane



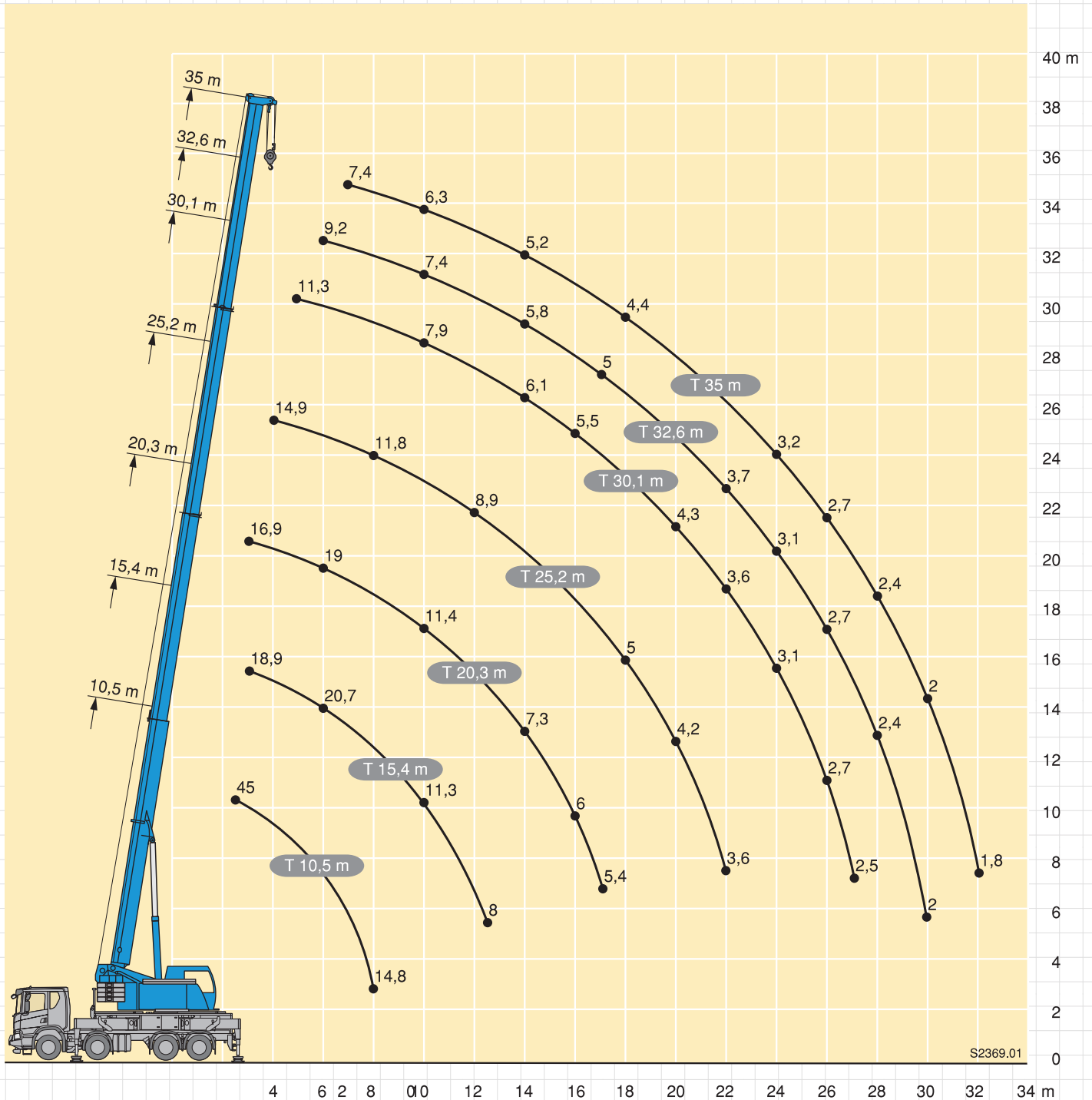
# 45 Tonne Dimensions



45  
Tonne

Truck Crane

# 45 Tonne Working Range



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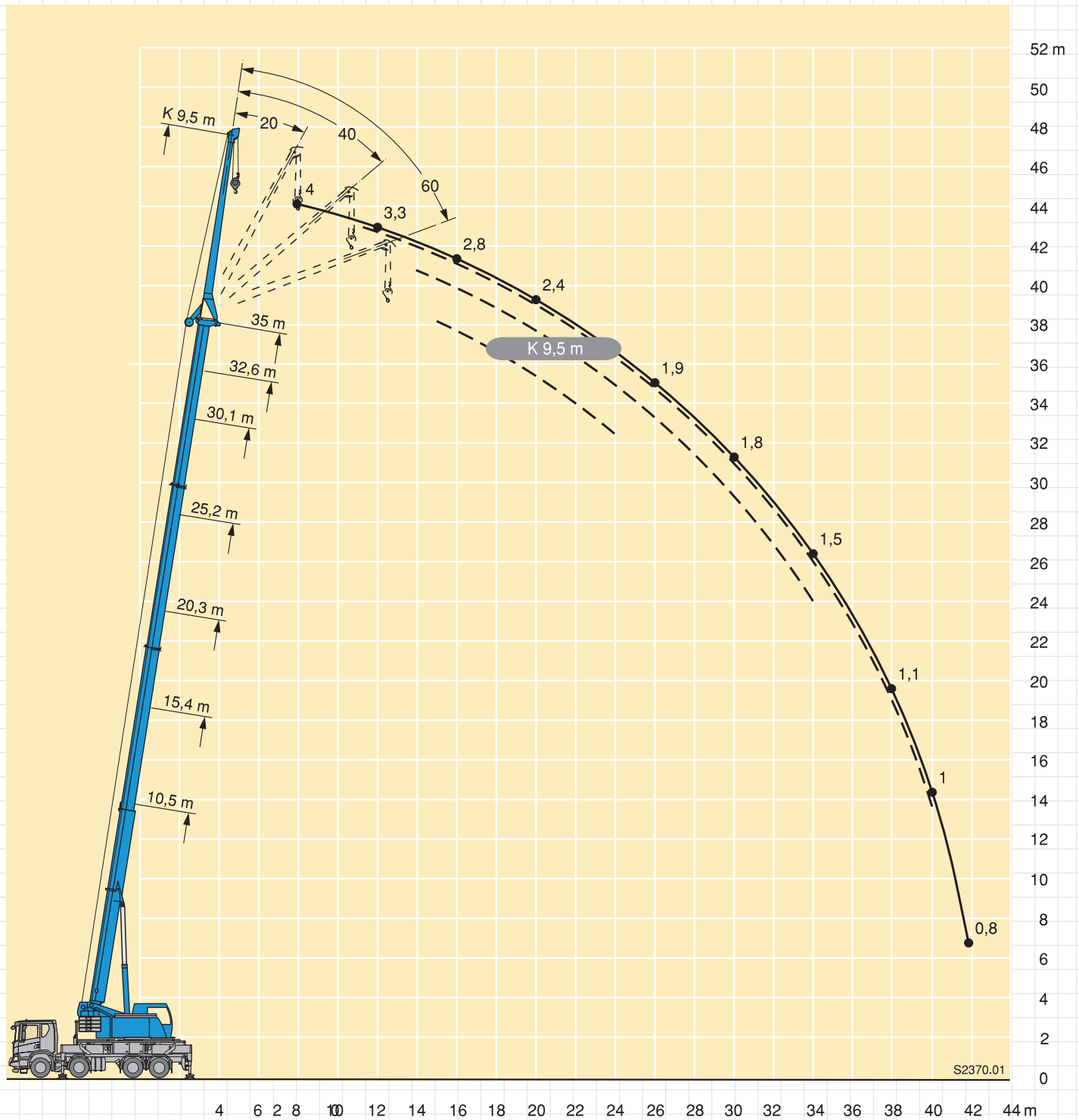
45  
Tonne

Truck Crane

**Safety first.  
McLeod first.**



# 45 Tonne Fly Working Range





# Crane Exclusion Zone

**KEEP SAFE, YOUR A LONG TIME DEAD**

## Crane Exclusion Zone

- No Entry unless you are signed onto the Lift Plan.
- **STOP** all operations if the Exclusion Zone is breached.
- Crane Operators / Dogman / Riggers to actively require sign on for exclusion zone.
- Plant & Machinery Operators working near the crane must sign on to the lift plan.

## Exclusion Zone Warnings

Use the following signs and warning to remind personnel to sign onto the Lift Plan.



Exclusion Zone Sign

**DANGER KEEP OUT**

Exclusion Zone Tape



Exclusion Zone Tape





# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 60 Tonne

Truck Crane

### Tadano GT600ex

**Lift Capacity:** 60.0 Tonne  
**Boom Length:** 43.0 m  
**Fly Length:** 8.8-15.2 m

**Main Hook Weight:** 570 Kg  
**Aux Hook Weight:** 150 Kg  
**Line Pull:** 5.6 Tonne

## 60 Tonne Rating Chart

UNIT: x1,000kg CLASS OF CRANE ; C3

Outriggers fully extended (6.8m)																				
B \ A	11.0		15.0		19.0			27.0			35.0		39.0		43.0					
	C		C		C	C		C	C		C	C		C						
3.0	70	60.0	76	60.0	79	32.0	79	22.0												
3.5	67	47.5	74	47.5	78	32.0	78	22.0												
4.0	64	42.4	72	42.4	76	32.0	76	22.0	81	22.0	81	17.0								
4.5	61	38.1	70	38.1	75	32.0	75	22.0	80	22.0	80	17.0								
5.0	58	34.5	68	34.5	73	32.0	73	22.0	79	22.0	79	17.0								
5.5	55	31.4	66	31.4	72	30.9	71	21.4	78	21.3	78	17.0								
6.0	51	28.7	63	28.7	70	27.4	70	20.6	77	20.7	77	17.0	80	14.0	81	12.0				
6.5	47	26.4	61	26.4	68	24.0	68	19.8	76	20.0	76	16.3	80	14.0	80	12.0				
7.0	43	24.4	59	24.4	67	21.1	66	19.1	75	19.5	75	15.4	79	14.0	79	11.9	80	10.0		
7.5	39	22.7	57	22.7	65	18.8	65	18.5	74	18.8	73	14.6	78	13.5	78	11.5	80	10.0		
8.0	34	20.0	54	20.0	63	16.9	63	17.9	72	17.1	72	13.9	77	13.0	77	11.1	79	10.0	80	8.5
9.0	20	15.7	49	15.7	60	13.9	60	16.8	70	14.3	70	12.6	76	12.1	76	10.3	78	10.0	79	8.5
10.0			43		56	11.6	56	14.7	68	12.2	68	11.6	74	11.7	74	9.7	76	9.7	78	8.5
11.0			36		52	9.5	52	12.4	65	10.5	65	10.7	72	10.2	72	9.0	75	9.2	77	8.5
12.0			28		47	7.9	48	10.6	63	9.2	63	9.9	70	9.0	71	8.4	73	8.7	76	8.1
14.0					37	5.5	38	7.9	58	6.9	58	8.3	67	7.1	67	7.3	70	7.5	73	6.9
16.0					24	3.8	25	6.2	52	5.2	52	6.5	63	5.6	63	6.4	67	6.1	70	5.5
18.0									46	3.9	46	5.2	59	4.4	59	5.4	63	5.0	66	4.4
20.0									39	3.0	40	4.2	55	3.5	55	4.4	60	4.0	63	3.6
22.0									31	2.2	32	3.5	50	2.7	51	3.6	56	3.2	60	2.9
24.0									20	1.6	22	2.9	46	2.1	46	3.0	52	2.6	57	2.3
26.0													41	1.6	41	2.5	48	2.1	53	1.8
28.0													35	1.2	35	2.1	43	1.7	50	1.4
30.0													28	0.8	28	1.7	39	1.3	46	1.0
32.0													18	0.5	18	1.4	33	1.0	42	0.7
34.0																	26	0.8	37	0.5
36.0																	17	0.6		
D	0°										18°		0°		17°		37°			
Telescoping conditions(%)																				
Telescoping Mode	I, II	I	I	II	I	II	I	II	I	II	II	I, II	I, II							
2nd boom	0	50	100	0	100	0	100	0	100	0	50	100	100							
3rd boom	0	0	0	33	33	66	66	100	100	100	100	100	100							
4th boom	0	0	0	33	33	66	66	100	100	100	100	100	100							
Top boom	0	0	0	33	33	66	66	100	100	100	100	100	100							

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated length (no load)



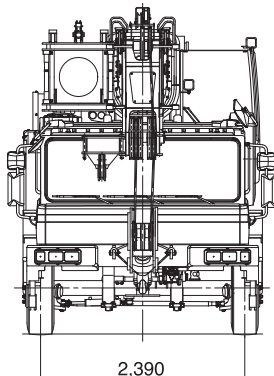
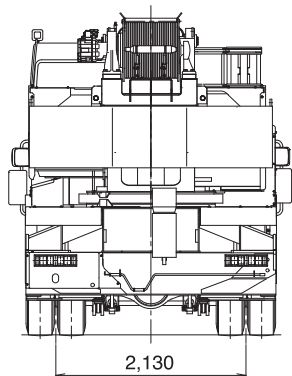
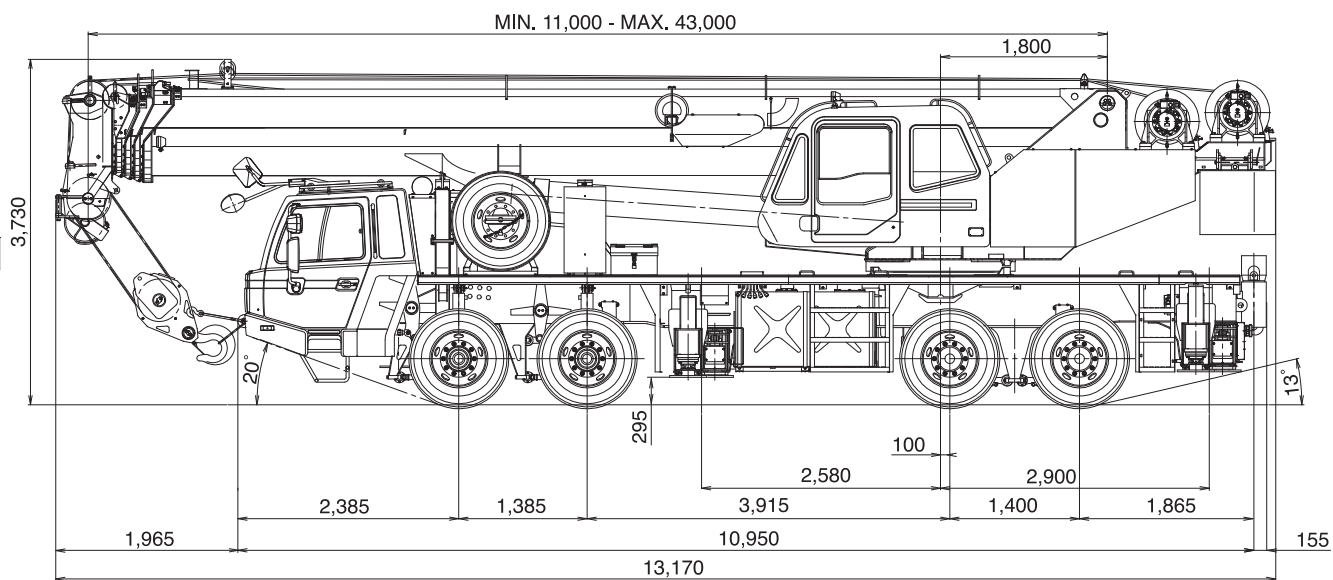
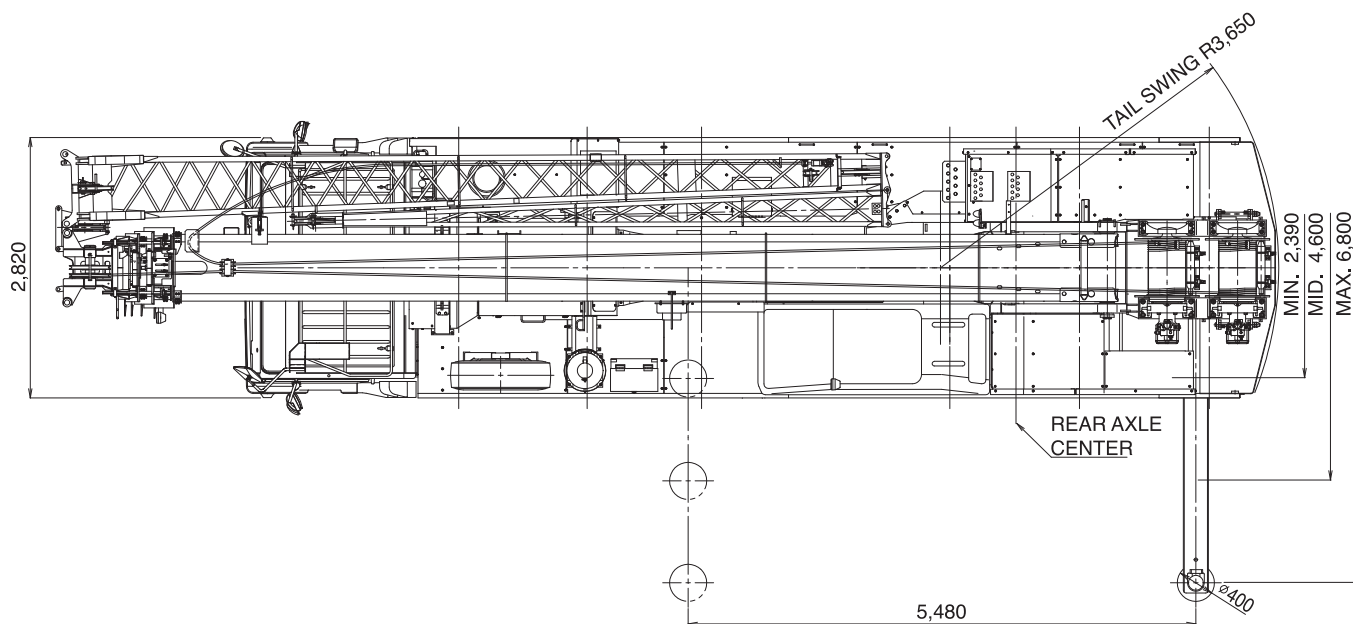
## 60 Tonne

Truck Crane

60  
Tonne

Truck Crane

## 60 Tonne Dimensions



60

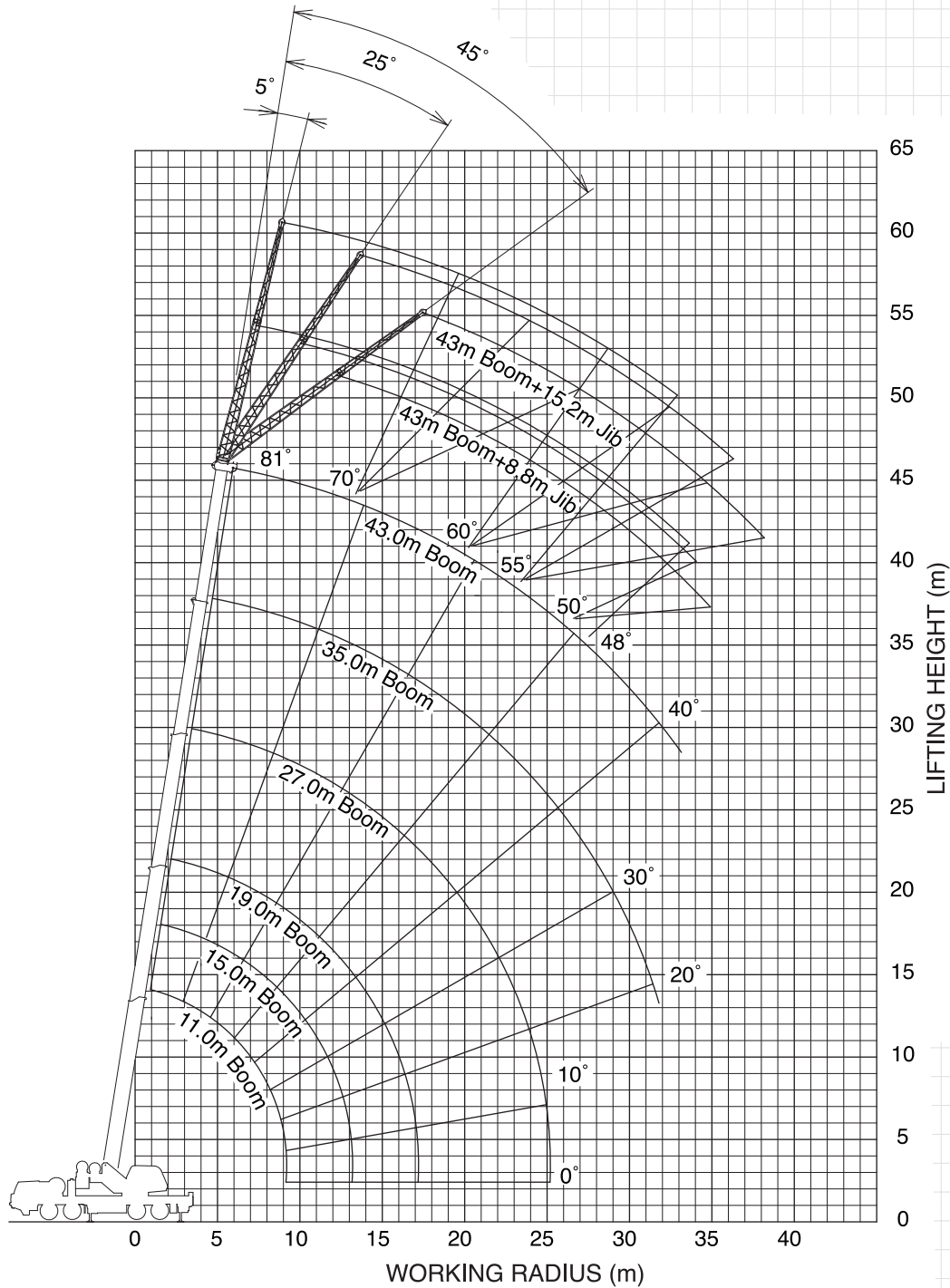
60  
Tonne

Truck Crane

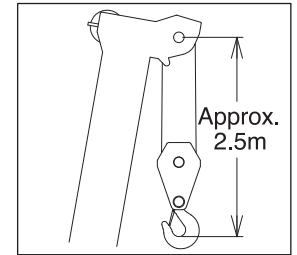
The charts that have been included have been reproduced from manufacturer specifications, and while every effort has been made to ensure their accuracy, we do not accept any responsibility for errors or omissions.

**Safety first.  
McLeod first.**

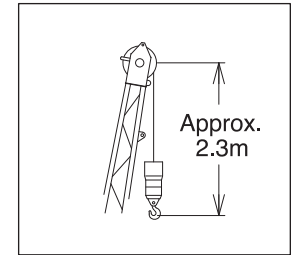
## 60 Tonne Working Range



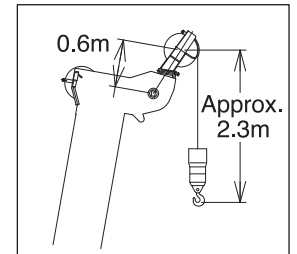
**BOOM**



**JIB**



**SINGLE TOP**



**NOTE:**

Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.



**60**  
Tonne

All Terrain  
Crane



**MCLEOD**

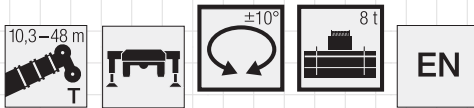
CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**Liebherr LTM1060 3.1**

**Lift Capacity:** 60.0 Tonne  
**Boom Length:** 48.0 m  
**Fly Length:** 9.5-16.0 m

**Main Hook Weight:** 280 Kg  
**Aux Hook Weight:** 95 Kg  
**Line Pull:** 4.5 Tonne

**60 Tonne Rating Chart**  
**8 Tonne Counterweight**  
On Road Configuration



	10,3 m	13,8 m	17,3 m	20,7 m	24,2 m	27,7 m	31,2 m	34,6 m	38,1 m	41,6 m	45,1 m	48 m	
3	42,3	41,5	40,4	34,1	29,6	22,7							3
3,5	42,3	42,2	40,7	34,4	30	23,2							3,5
4	42,3	41,7	38,1	34,8	30,2	23,6	18,6						4
4,5	39,8	38	34,9	33,3	29,9	24	18,9	14,6					4,5
5	36,2	35,1	32,7	31,1	29,6	24,1	19,1	14,8					5
6	29,6	29,2	27,6	25,8	25	23,2	19,2	15	11,7				6
7	22,2	23	22,3	21,8	20,6	19,1	17,9	15,1	12	9,5	7,2		7
8		18,1	18,9	18,3	17,3	16,2	15,4	14,5	12,1	9,6	7,4	6,1	8
9		15,1	15,6	15,6	14,8	14	13,7	13,1	11,9	9,7	7,4	6,2	9
10		12,7	13,1	13,2	12,9	12,4	12,1	11,6	10,9	9,5	7,4	6,3	10
11		10,9	11,3	11,3	11,2	11,4	10,7	10,3	9,6	9,2	7,3	6,3	11
12			9,8	9,9	10,2	10,1	9,6	9,3	9	8,5	7,1	6,2	12
13			8,6	8,8	9	8,9	8,6	8,5	8,2	7,6	6,9	6,1	13
14			7,7	8,1	8,1	7,9	8	7,7	7,4	7	6,7	5,9	14
15				7,3	7,2	7,1	7,2	7	6,8	6,6	6,1	5,8	15
16				6,6	6,5	6,7	6,5	6,5	6,3	6	5,6	5,4	16
17				6	6	6,1	5,9	6	5,8	5,5	5,1	4,9	17
18				5,5	5,4	5,5	5,4	5,4	5,3	5,1	4,6	4,5	18
19					5	5,1	5	5	4,8	4,6	4,2	4,1	19
20					4,6	4,7	4,6	4,6	4,4	4,2	3,9	3,8	20
21					4,2	4,3	4,2	4,2	4	3,8	3,6	3,4	21
22						4	3,9	3,9	3,7	3,5	3,2	3,2	22
23						3,7	3,6	3,6	3,4	3,2	3	2,9	23
24						3,5	3,4	3,3	3,1	3	2,7	2,7	24
25						3,2	3,1	3,1	2,9	2,7	2,5	2,4	25
26							2,9	2,8	2,7	2,5	2,3	2,2	26
27							2,7	2,6	2,4	2,3	2,1	2	27
28							2,5	2,4	2,3	2,1	1,9	1,9	28
29								2,3	2,1	2	1,7	1,7	29
30								2,1	1,9	1,8	1,6	1,6	30
31								1,9	1,8	1,6	1,4	1,4	31
32								1,8	1,6	1,5	1,3	1,3	32
33									1,5	1,4	1,1	1,1	33
34									1,4	1,2	1	1	34
35									1,2	1,1	0,9	0,9	35
36										1			36
37										0,9			37
38										0,8			38

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**60**  
Tonne

All Terrain  
Crane



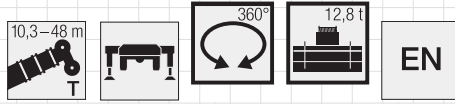
**60**  
Tonne

All Terrain  
Crane

# 60 Tonne Rating Chart

## 12.8 Tonne FULL Counterweight

Requires Delivery of Counterweight



	* 10,3 m	13,8 m	17,3 m	20,7 m	24,2 m	27,7 m	31,2 m	34,6 m	38,1 m	41,6 m	45,1 m	48 m		
2,1	60												2,1	
2,4	58,8												2,4	
2,5	58,2												2,5	
3	54,6	42,3	41,5	40,4	34,1	29,6	22,7						3	
3,5	49,9	42,3	42,2	40,7	34,4	30	23,2						3,5	
4	44,5	40,5	40,2	38,1	34,8	30,2	23,6	18,6					4	
4,5	39,8	37,2	36,9	34,9	33,3	29,9	24	18,9	14,6				4,5	
5	36,4	34,2	34,3	32,9	31,1	29,6	24,1	19,1	14,8				5	
6	31,6	28,7	29,1	29,3	28,2	26,6	23,7	19,2	15	11,7			6	
7	26,5	24,1	24,6	24,8	24,8	23,9	22,9	18,7	15,1	12	9,5	7,2	7	
8			20,9	21,1	21,3	20,9	19,7	17,7	14,8	12,1	9,6	7,4	6,1	8
9			17,8	18,3	18,5	18	17	15,9	14,2	11,9	9,7	7,4	6,2	9
10			15,2	15,8	15,9	15,7	14,9	14,3	13,3	11,5	9,5	7,4	6,3	10
11			13,3	13,7	13,7	13,6	13,1	12,6	12,2	11	9,2	7,3	6,3	11
12				11,9	12	11,9	11,7	11,6	11,1	10,4	8,8	7,1	6,2	12
13				10,6	10,6	10,5	10,5	10,5	10,2	9,7	8,5	6,9	6,1	13
14				9,4	9,5	9,4	9,7	9,4	9,3	8,7	8,2	6,7	5,9	14
15					8,5	8,9	8,7	8,5	8,4	8	7,8	6,5	5,8	15
16					7,7	8,1	7,9	7,7	7,6	7,6	7,2	6,3	5,7	16
17					7	7,3	7,2	7	7,1	7	6,6	6,1	5,5	17
18					6,8	6,7	6,6	6,6	6,5	6,4	6,2	5,9	5,4	18
19						6,2	6	6,2	6	5,9	5,8	5,5	5,2	19
20						5,7	5,7	5,7	5,5	5,5	5,4	5	4,9	20
21						5,3	5,4	5,2	5,2	5,1	5	4,6	4,5	21
22							5	4,9	4,9	4,7	4,6	4,2	4,2	22
23							4,7	4,5	4,5	4,4	4,2	3,9	3,9	23
24							4,3	4,2	4,2	4	3,9	3,6	3,6	24
25							4,1	3,9	3,9	3,7	3,6	3,3	3,3	25
26								3,7	3,7	3,5	3,3	3,1	3	26
27								3,5	3,4	3,2	3,1	2,8	2,8	27
28								3,3	3,2	3	2,9	2,6	2,6	28
29									3	2,8	2,7	2,4	2,4	29
30										2,8	2,6	2,5	2,3	30
31										2,6	2,4	2,3	2,1	31
32										2,5	2,3	2,1	1,9	32
33											2,1	2	1,7	33
34												2	1,8	34
35												1,8	1,7	35
36													1,6	36
37													1,4	37
38													1,3	38
39													1,2	39
40													0,9	40

\* nach hinten · over rear · sur arrière · sul posteriore · hacia atrás · стрела повернута назад

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**60**  
Tonne

All Terrain  
Crane

60

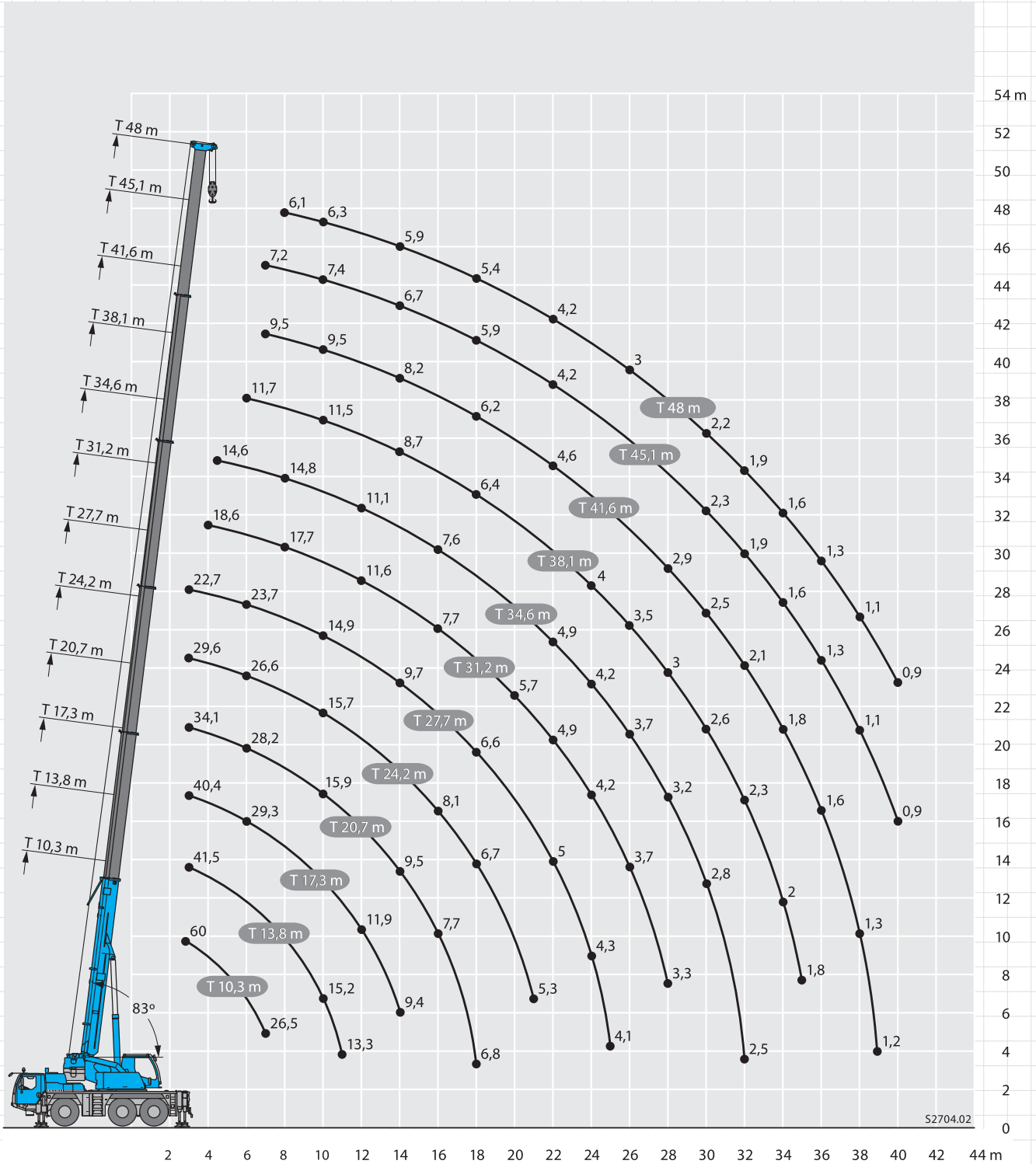
Tonne

All Terrain  
Crane

# 60 Tonne Working Range

## 12.8 Tonne FULL Counterweight

Requires Delivery of Counterweight



S2704.02

60

Tonne

All Terrain  
Crane





# 60 Tonne Fly Rating Chart

## 12.8 Tonne FULL Counterweight + Fly

Requires Delivery of Counterweight

					EN																								
	10,3 m			34,6 m			38,1 m			41,6 m			45,1 m			48 m													
	9,5 m			9,5 m			9,5 m			9,5 m			9,5 m			9,5 m													
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°								
3	7,9																					3							
3,5	7,7	6,7																				3,5							
4	7,4	6,7																				4							
4,5	7,1	6,7																				4,5							
5	6,8	6,7																				5							
6	6,3	6,5	5,2	7,6																		6							
7	5,8	6,1	5,2	7,6			6,3															7							
8	5,2	5,7	5,2	7,5			6,4			5,3												8							
9	4,7	5,3	5,1	7,4	6,5		6,3			5,3												9							
10	4,2	4,9	4,9	7,2	6,4		6,3	5,8		5,3												10							
12	3,3	4	4,2	7	6,1	5,2	6,1	5,6	4,3	5,3	5		3,9	4					3,4			12							
14	2,7	3,3	3,4	6,7	5,8	5,1	6	5,4	4,9	5,2	4,8	4,5	3,9	3,9					3,4	3,4		14							
16	2	2,5	2,4	6,4	5,5	4,9	5,8	5,2	4,7	5	4,7	4,3	3,8	3,8	3,6				3,4	3,4	3,3	16							
18				5,8	5,3	4,7	5,5	5	4,5	4,8	4,5	4,2	3,7	3,6	3,5				3,3	3,3	3,2	18							
20				5,2	5	4,6	4,7	4,8	4,3	4,5	4,2	4,1	3,6	3,5	3,3				3,2	3,2	3,1	20							
22				4,4	4,7	4,3	4,3	4,3	4,1	4	4	3,9	3,4	3,4	3,2				3,1	3	3	22							
24				3,8	4	4	3,8	3,8	4	3,6	3,7	3,7	3,3	3,2	3,1				2,9	2,9	2,9	24							
26				3,4	3,5	3,6	3,4	3,5	3,6	3,3	3,2	3,4	3	3,1	3				2,8	2,8	2,8	26							
28				3,1	3,1	3,2	3	3,1	3,1	2,9	3	3	2,6	2,8	2,9				2,5	2,7	2,7	28							
30				2,8	2,8	2,9	2,6	2,8	2,8	2,5	2,7	2,8	2,2	2,4	2,6				2,2	2,4	2,5	30							
32				2,5	2,6	2,7	2,3	2,4	2,5	2,1	2,3	2,4	1,9	2,1	2,2				1,8	2	2,2	32							
34				2,2	2,3		2	2,1	2,2	1,8	2	2,1	1,6	1,8	1,9				1,6	1,7	1,9	34							
36				1,9	2		1,7	1,8		1,5	1,7	1,8	1,3	1,5	1,6				1,3	1,5	1,6	36							
38				1,7	1,7		1,4	1,5		1,3	1,4		1,1	1,2	1,3				1,1	1,2	1,3	38							
40				1,4			1,2	1,3		1,1	1,2		0,9	1	1,1				0,9	1	1,1	40							
42							1,1	1,1		0,9	1			0,8						0,8	0,8	42							
44							0,9			0,7	0,8											44							

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					EN																								
	10,3 m			34,6 m			38,1 m			41,6 m			45,1 m			48 m													
	16 m			16 m			16 m			16 m			16 m			16 m													
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°								
3	4,1																					3							
3,5	4,1																					3,5							
4	4																					4							
4,5	4																					4,5							
5	3,9																					5							
6	3,7																					6							
7	3,6	3,9		3,9																		7							
8	3,4	3,7		3,9			3,5			3												8							
9	3,2	3,5		3,8			3,4			3			2,6									9							
10	3,1	3,4		3,8			3,4			3			2,6						2,3			10							
12	2,8	3,1	2,4	3,7	3,1		3,3			3			2,6						2,3			12							
14	2,6	2,8	2,3	3,5	3		3,2	2,8		2,9	2,7		2,6						2,3			14							
16	2,3	2,6	2,3	3,4	2,9	2,4	3,2	2,8		2,9	2,6		2,5	2,4					2,2			16							
18	2	2,5	2,2	3,3	2,8	2,4	3,1	2,7	2,3	2,8	2,5		2,5	2,3					2,2	2,2		18							
20	1,7	2,1	2,1	3,2	2,7	2,3	3	2,6	2,3	2,7	2,5	2,2	2,5	2,3	2,1				2,2	2,2		20							
22	1,4	1,7	2	3	2,6	2,3	2,9	2,5	2,2	2,7	2,4	2,2	2,4	2,2	2,1				2,2	2,1	2	22							
24				2,9	2,5	2,2	2,8	2,4	2,2	2,6	2,3	2,2	2,4	2,2	2,1				2,1	2,1	2	24							
26				2,8	2,4	2,2	2,7	2,4	2,2	2,5	2,3	2,1	2,3	2,2	2,1				2,1	2,1	2	26							
28				2,6	2,4	2,2	2,6	2,3	2,1	2,5	2,2	2,1	2,3	2,1	2,1				2,1	2	2	28							
30				2,5	2,3	2,2	2,4	2,3	2,1	2,3	2,2	2,1	2,2	2,1	2				2,1	2	2	30							
32				2,3	2,2	2,2	2,3	2,2	2,1	2,2	2,2	2,1	2	2,1	2				1,9	2	1,9	32							
34				2,1	2,2	2,1	2,1	2,1	2,1	1,9	2	2,1	1,7	2	2				1,6	1,9	1,9	34							
36				2	2	2,1	1,8	1,9	2	1,7	1,9	1,9	1,4	1,7	1,9				1,3	1,6	1,8	36							
38				1,8	1,9	1,9	1,6	1,8	1,9	1,4	1,6	1,8	1,2	1,4	1,6				1,1	1,4	1,6	38							
40				1,5	1,7		1,4	1,5	1,6	1,2	1,4	1,5	1	1,2	1,4				0,9	1,2	1,3	40							
42				1,4	1,5		1,2	1,3		1	1,2	1,3	0,8	1	1,1				0,7	1	1,1	42							
44				1,2	1,3		1	1,1		0,8	1	1,1		0,8	0,9					0,8	0,9	44							
46				1			0,8	0,9			0,8				0,7						0,7	46							
48				0,9			0,7	0,8														48							

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60

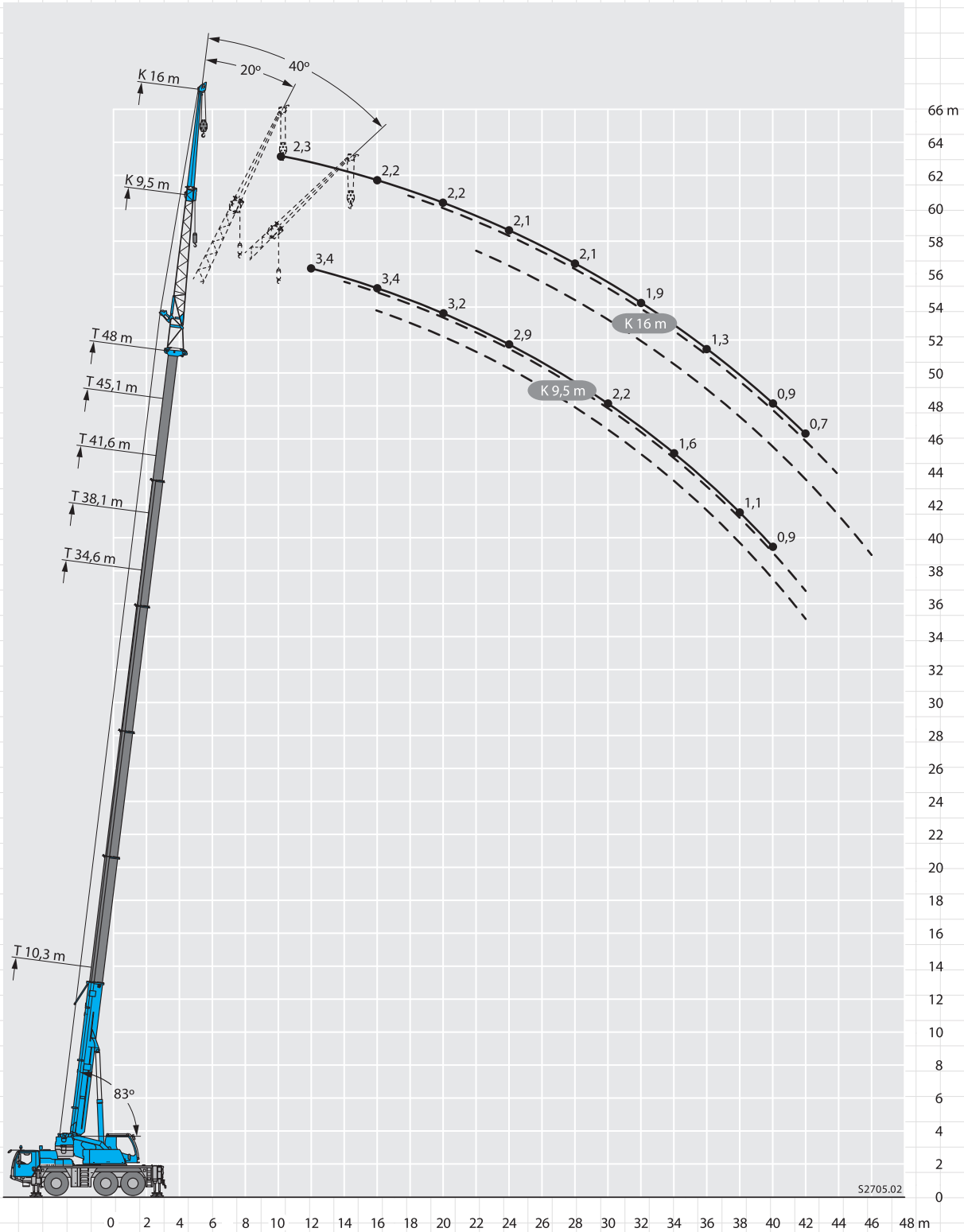
Tonne

All Terrain  
Crane

# 60 Tonne Working Range

## 12.8 Tonne FULL Counterweight + Fly

Requires Delivery of Counterweight



60

Tonne

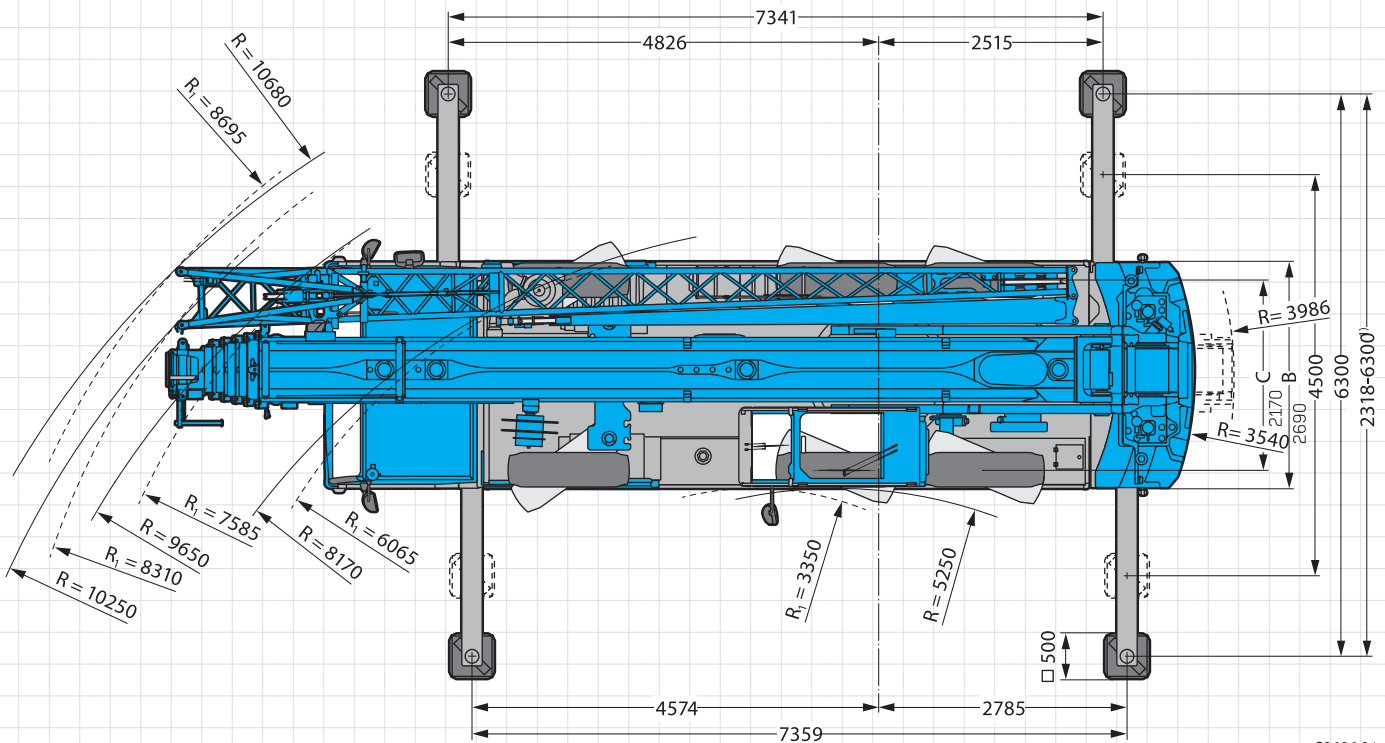
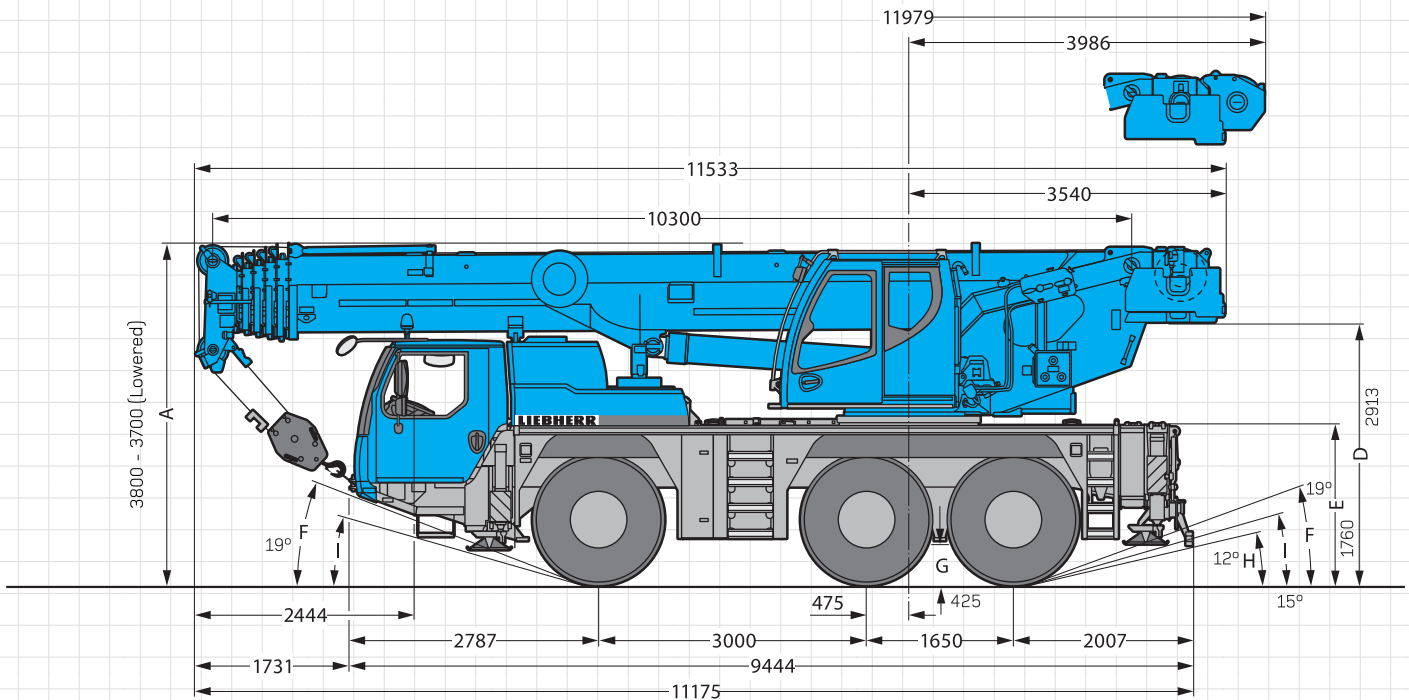
All Terrain  
Crane



**60**  
Tonne

All Terrain  
Crane

## 60 Tonne Dimensions



S2696.04



**60**  
Tonne

All Terrain  
Crane

# REVERSING SPOTTING/GUIDE VEHICLES SAFELY

1. **FIRST** discuss and confirm with driver the travel path and end point where reversing must stop, allowing for a "Minimum Approach Distance".
2. **AGREE** on hand/verbal signals to be used and where spotter will stand. Test visibility and response to your signals in action at the beginning.
3. **USE** additional spotters if required. Agree this at the start, but don't hesitate to stop the vehicle and get extra help if needed.
4. **CHECK** surroundings for obstacles before and at all times during the vehicle movement.
5. **MAINTAIN** constant eye or radio contact with the driver at all times. Signal to **STOP** immediately if contact is interrupted.
6. **DON'T** become distracted.
7. **NEVER** walk backwards while spotting a moving vehicle.
8. **NEVER** stand or walk directly behind a reversing vehicle.
9. **NEVER** put yourself **IN THE PATH** between the reversing vehicle and any obstacle.
10. Signal to **STOP** the vehicle if there is any doubt or danger.

## GUIDE TO REVERSING SIGNALS



### STOP

Extend arm with open palm facing forward.



### EMERGENCY STOP

In Emergency use both hands to indicate STOP.



### START REVERSING

Extend arm to front and with the palm of your hand facing towards you, use a back and forth arm movement towards your body.



### CLEARANCE

Hold hands apart and bring them together as the driver gets closer to the object. When close enough use the stop signal.



### TURN LEFT / RIGHT

Hold arm out straight and point in the direction (left or right) that you wish the driver to go.



### MOVE FORWARDS

Extend arm to front with the palm of your hand facing away from you, use a back and forth arm movement away from your body.



# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 90 Tonne

All Terrain Crane

### Liebherr LTM1090 4.2

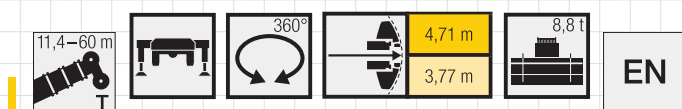
**Lift Capacity:** 90.0 Tonne  
**Boom Length:** 60.0 m  
**Fly Length:** 9.5-16.0 m

**Main Hook Weight:** 450 Kg  
**Aux Hook Weight:** 140 Kg  
**Line Pull:** 6.3 Tonne

## 90 Tonne Rating Chart

### 8.8 Tonne Counterweight

On Road Configuration



	11,4 m	15,1 m	18,9 m	22,6 m	26,3 m	30 m	31,3 m	33,8 m	35,7 m	37,5 m	39,4 m	41,2 m	43,2 m	44,9 m	47,5 m	48,7 m	51,3 m	52,4 m	55,6 m	56,1 m	59,4 m	60 m	
3	59,2	59,2	59,2	48																			3
3,5	57,1	57,2	56,3	48	36,6																		3,5
4	52,2	52,2	51	47,5	36,6																		4
4,5	47,9	48	46,8	45,3	36,6	30,4	12,6																4,5
5	43,8	44,1	43,1	41,7	36,3	30	12,6	24,5															5
6	36,1	36,8	36,7	36,3	34,7	28,8	12,1	23,8	10,5	19,3													6
7	29,8	30,5	30,9	30,9	29	27,5	11,2	22,9	9,7	19,1	9,4	15,2											7
8	25	26	26,1	25,8	25,3	23,9	10,4	22	9	18,9	8,9	15,1	8,2	11,7	6,3								8
9	20,9	22	22,6	22,8	21,8	20,6	9,7	19,4	8,4	18	8,3	15	7,8	11,5	6,3	9,2	5,7						9
10		18,8	19,4	19,6	19	18	9	16,9	7,8	16,2	7,8	14,4	7,4	11,2	6,3	9	5,7	7,3	4,9	5,3			10
11		16,1	16,8	17	16,8	15,9	8,5	15	7,3	14,3	7,3	13,8	7,1	10,8	6,2	8,8	5,6	7,1	4,9	5,3	4,2	4,1	11
12		13,9	14,5	14,7	14,7	14,1	7,9	13,3	6,8	13,3	6,9	12,4	6,7	10,4	5,9	8,5	5,5	7	4,8	5,2	4,2	4,1	12
14			11,3	11,4	11,4	11,2	7	11,4	6	10,6	6,2	9,9	6,1	9,2	5,5	8	5,2	6,7	4,7	5	4,2	4,1	14
16			8,9	9,1	9,3	9,5	6,3	9,2	5,3	8,7	5,5	8	5,5	7,7	5,1	7,2	4,8	5,9	4,5	4,8	4,1	4	16
18				7,4	7,8	7,6	5,7	7,4	4,7	7	5	7	4,9	6,6	4,7	6	4,5	5,4	4,2	4,6	4	3,9	18
20				6,3	6,3	6,2	5,1	5,9	4,2	6,1	4,5	5,7	4,5	5,4	4,3	5,3	4,2	4,9	4	4,3	3,8	3,7	20
22					5,2	5,1	4,7	5,2	3,9	5	4,2	4,8	4,1	4,6	4	4,5	3,9	4,2	3,7	4	3,6	3,6	22
24					4,4	4,5	4,3	4,4	3,6	4,2	3,8	4,2	3,8	4,1	3,8	3,8	3,6	3,7	3,5	3,5	3,3	3,3	24
26						3,9	3,9	3,8	3,3	3,7	3,6	3,6	3,5	3,5	3,3	3,3	3,1	3,1	2,9	2,9	2,9	2,9	26
28							3,4	3,3	3,1	3,3	3,3	3,1	3,1	3	3	2,8	2,8	2,6	2,6	2,4	2,4	2,4	28
30								2,9	2,9	2,8	2,9	2,7	2,7	2,5	2,6	2,4	2,4	2,2	2,2	2	2	1,9	30
32									2,5	2,5	2,5	2,3	2,3	2,2	2,2	2	2	1,8	1,9	1,6	1,6	1,6	32
34										2,1	2,2	2	2	1,9	1,9	1,7	1,7	1,5	1,6	1,3	1,3	1,2	34
36											1,9	1,7	1,7	1,6	1,6	1,4	1,5	1,3	1,3	1	1	0,9	36
38												1,5	1,5	1,4	1,4	1,2	1,2	1	1				38
40													1,3	1,1	1,2	0,9	1						40
42															0,9	0,9							42

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## 90 Tonne

All Terrain Crane

90  
Tonne

All Terrain  
Crane

## 90 Tonne Rating Chart

### 22.5 Tonne FULL Counterweight

Requires Delivery of Counterweight



	11,4 m	15,1 m	18,9 m	22,6 m	26,3 m	30 m	33,8 m	37,5 m	41,2 m	44,9 m	48,7 m	52,4 m	55,6 m	56,1 m	59,4 m	60 m		
3	90	59,2	59,2	59,2	48												3	
3,5	59,2	59,2	58,2	56,3	48	36,6											3,5	
4	55,6	54,9	53,2	51	47,5	36,6											4	
4,5	50,9	50,5	49	46,8	45,3	36,6	30,4										4,5	
5	47,6	46,7	45,4	43,1	41,7	36,3	30	24,5									5	
6	42	40,3	40,2	38,3	36,7	35,1	28,8	23,8	19,3								6	
7	36,6	35,3	35,8	34,4	33,6	32,3	27,6	22,9	19,1	15,2							7	
8	31,6	30,9	31,4	31,1	30,5	29,2	26,4	22,1	18,9	15,1	11,7						8	
9	27,1	27	27,6	27,9	27,7	26,7	25	21,3	18,6	15	11,5	9,2					9	
10			24,4	24,7	24,7	24,4	23,5	20,5	18,1	14,4	11,2	9	7,3	4,9	5,3		10	
11			21,6	22	22	21,9	22,1	19,7	17,1	13,8	10,8	8,8	7,1	4,9	5,3	4,2	4,1	11
12			19,5	19,6	19,7	19,6	19,9	18,9	16,1	13,3	10,4	8,5	7	4,8	5,2	4,2	4,1	12
14				16,1	16,3	16,4	16,2	16	14,3	12,2	9,4	8	6,7	4,7	5	4,2	4,1	14
16				13,6	13,8	13,7	13,5	13,3	12,7	11,3	8,5	7,3	5,9	4,5	4,8	4,1	4	16
18					11,6	11,6	11,4	11,1	10,7	10,4	7,6	6,7	5,4	4,2	4,6	4	3,9	18
20					9,9	9,8	9,6	9,3	9,6	9,3	6,9	6,1	5	4	4,3	3,8	3,7	20
22						8,4	8,2	8,5	8,3	7,9	6,3	5,5	4,6	3,7	4,1	3,6	3,6	22
24						7,3	7,3	7,4	7,1	6,8	5,9	5	4,3	3,5	3,8	3,4	3,4	24
26							6,7	6,5	6,1	5,8	5,5	4,6	4	3,3	3,6	3,2	3,2	26
28								5,6	5,3	5,1	5,1	4,2	3,8	3,1	3,4	3	3	28
30								4,9	4,6	4,8	4,5	3,9	3,5	2,9	3,2	2,9	2,9	30
32									4,3	4,2	4	3,8	3,3	2,7	3,1	2,7	2,7	32
34									4	3,8	3,5	3,5	3,1	2,6	2,9	2,6	2,6	34
36										3,4	3,3	3,2	2,9	2,4	2,7	2,5	2,4	36
38										3,1	3,1	2,9	2,8	2,3	2,6	2,3	2,3	38
40											2,8	2,7	2,6	2,1	2,4	2,2	2,2	40
42												2,5	2,5	2,3	2	2,2	2,1	42
44													2,2	2,2	1,9	2	1,9	44
46														2	1,9	1,8	1,8	46
48															1,7	1,7	1,5	48
50																1,6	1,4	50
52																	1,4	52
54																	1	54
56																	0,8	56

\* ± 0° nach hinten · over rear · en arrière · sul posteriore · hacia atrás · стрела повернута назад

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90  
Tonne

All Terrain  
Crane

**Safety first.  
McLeod first.**

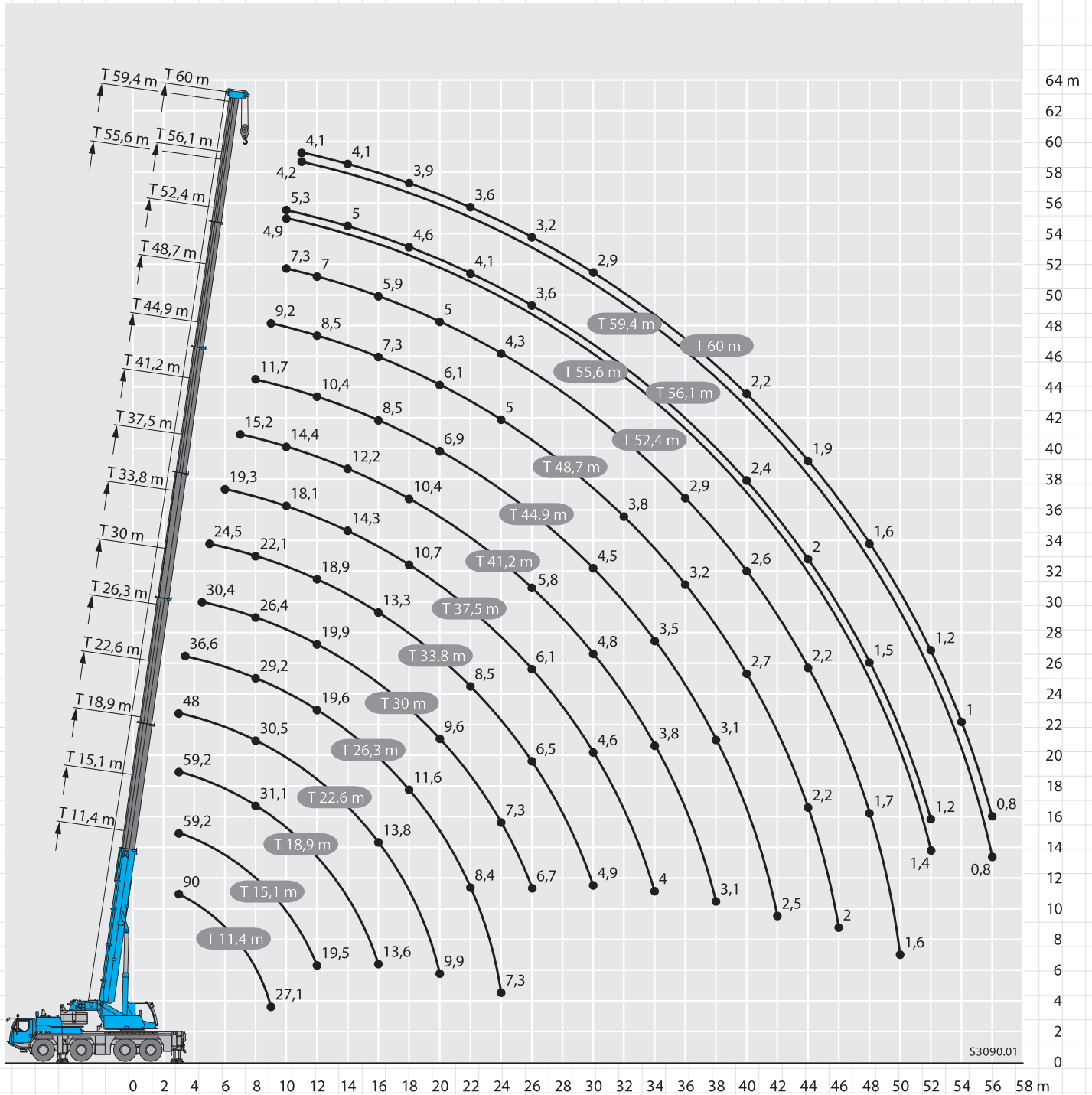
90 Tonne

All Terrain Crane

# 90 Tonne Working Range

## 22.5 Tonne FULL Counterweight

Requires Delivery of Counterweight



90 Tonne

All Terrain Crane







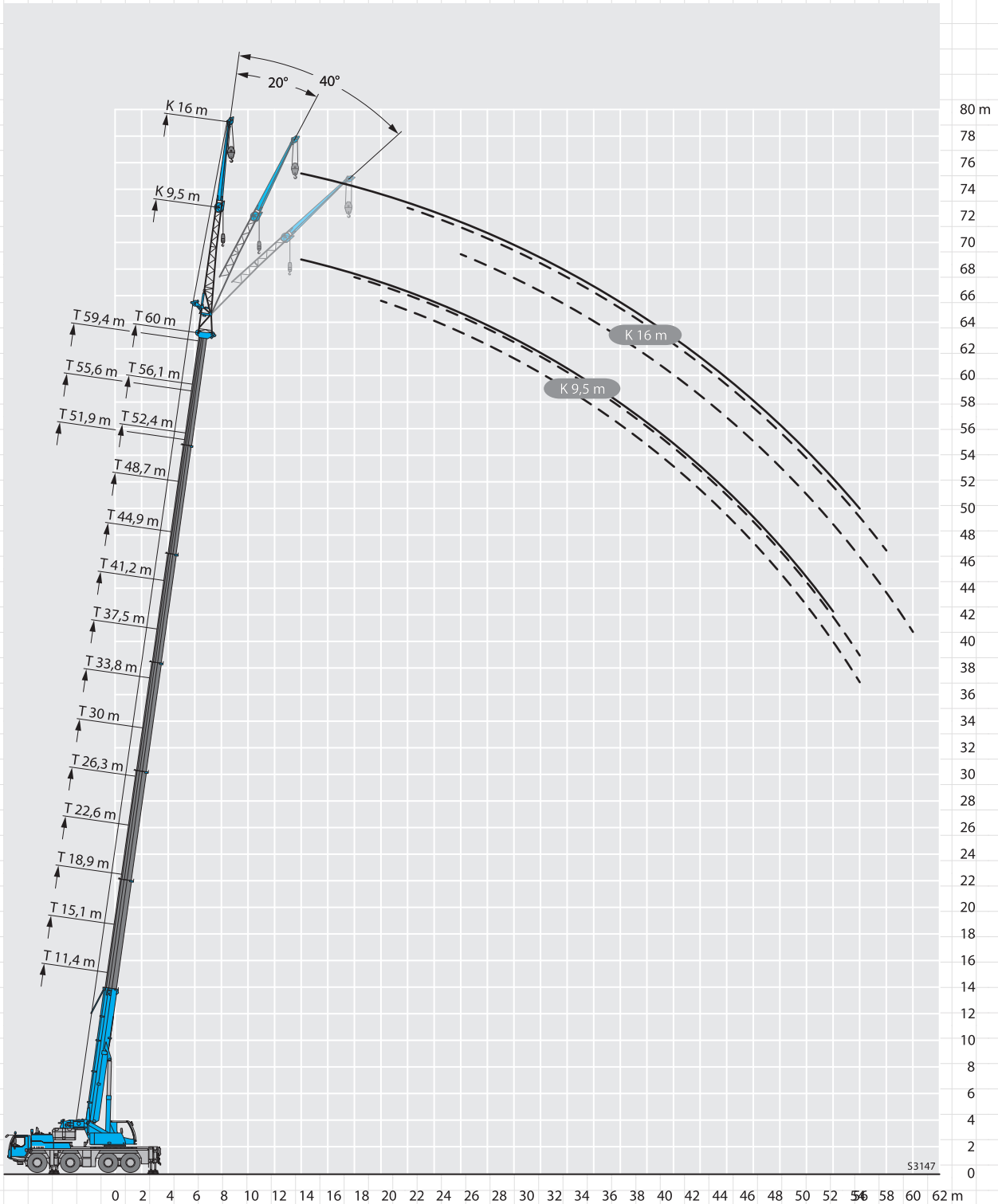
90  
Tonne

All Terrain  
Crane

# 90 Tonne Working Range

## 22.5 Tonne FULL Counterweight + 16m Fly

Requires Delivery of Counterweight



90  
Tonne

All Terrain  
Crane

**Safety first.  
McLeod first.**

**90**  
Tonne

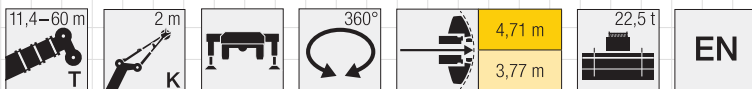
All Terrain  
Crane

# Panel Jib

## 90 Tonne Runner Rating Chart

### 22.5 Tonne FULL Counterweight + 2m Runner

Requires Delivery of Counterweight



	11,4 m 2 m				15,1 m 2 m				18,9 m 2 m				19,5 m 2 m				22,6 m 2 m				23,2 m 2 m					
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°		
3,5			24,7	19,8			24,7	19,8			24,7	19,8			18,5	17,7			24,7						3,5	
4			24,7	19,8			24,7	19,8			24,7	19,8			17,6	16,7			24,7	19,8			17,3		4	
4,5			24,7	19,8			24,7	19,8			24,7	19,8			16,6	15,8			24,7	19,8			16,5	15,6	4,5	
5			24,7	19,5			24,7	19,8			24,7	19,8			15,6	14,9			24,7	19,8			15,7	15	5	
6		24,7	24,7	18,6			24,7	19,8			24,7	19,8			14	13,4			24,7	19,8			14,4	13,7	6	
7		24,7	24,7	17,8			24,7	19,1			24,7	19,8			12,6	12,2			24,7	19,8			13,2	12,6	7	
8		24,7	24,7	17,2		24,7	24,7	18,4			24,7	19,5			11,5	11,1			24,7	19,8			12,1	11,7	8	
9	24,7	24,7	24,7	16,9		24,7	24,7	17,8			24,7	18,9			10,5	10,2			24,7	19,7			11,1	10,8	9	
10	24,1	24,3	24,4	16,9		24,5	24,7	17,3			24,2	24,3	18,4		10	9,7	9,5		24,5	19,2			10,2	10	10	
11	19,8	21,5	21,6	16,6		21,9	22	17			21,7	21,9	17,9		9,3	8,9	8,8		21,9	18,8			9,5	9,3	11	
12					19,4	19,5	19,6	16,9			19,7	19,8	17,5		8,6	8,3	8,1		19,7	19,9	18,3		8,8	8,7	12	
14					15,8	15,9	15,9	15,9			16,1	16,2	16,2		7,4	7,2	7,1		16	16,2	16,2		7,9	7,7	14	
16											13,3	13,4	13,4	13,5	6,7	6,5	6,4	6,3		13,3	13,4	13,5		7	6,8	16
18											11,5	11,5	11,4	11,5	5,9	5,8	5,7	5,7		11,6	11,6	11,7	11,7	6,3	6,2	18
20																				9,8	9,9	9,9	9,9	5,7	5,6	20
22																				8,5	8,5	8,5	8,5	5,1	5,1	22

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	26,3 m 2 m				26,9 m 2 m				27,6 m 2 m				30 m 2 m				31,3 m 2 m				33,8 m 2 m						
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°			
4			24,7																						4		
4,5			24,7	19,8			12,4																		4,5		
5			24,7	19,8			11,9	11,4			11,6			24,7											5		
6			24,7	19,8			10,8	10,4			10,5	10,2		24,7	19,8			10,3	9,9			21,3			6		
7			24,7	19,8			9,8	9,5			9,6	9,3		24,7	19,8			9,5	9,2			20,7	19,8		7		
8			24,7	19,8			9	8,7			8,8	8,6		24	19,8			8,9	8,6			20	19,8		8		
9			24,7	19,8			8,3	8,1			8,1	7,9		23	19,8			8,2	8			19,3	19,6		9		
10			24,1	19,8			7,6	7,5			7,5	7,3		22	19,8			7,7	7,5			18,7	18,9		10		
11			22,1	19,5			7,1	6,9			6,9	6,8			21,1	19,8			7,2	7			18	18,2	11		
12			19,7	19			6,6	6,5			6,5	6,3			19,3	19,2			6,7	6,6			17,4	17,6	12		
14		15,9	16	16,1			5,7	5,6			5,6	5,5			16,3	16,3			6	5,9			16	16	14		
16		13,7	13,8	13,8		5,1	5	5		5	4,9	4,9		12,6	13,5	13,6			5,3	5,2			13,2	13,3	16		
18		11,5	11,6	11,6		4,5	4,5	4,4		4,4	4,4	4,4		11,4	11,4	11,4		4,8	4,8	4,7			11,1	11,2	18		
20		9,8	9,8	9,9		4,1	4	4		4	4	4		9,6	9,6	9,7		4,3	4,3	4,3			9,3	9,3	20		
22	8,3	8,4	8,4	8,4	3,8	3,7	3,7	3,7	3,7	3,7	3,7	3,6	3,6		8,2	8,2	8,2		4	4	4			7,9	7,9	22	
24	7,2	7,2	7,3	7,3	3,5	3,4	3,4	3,5	3,4	3,4	3,4	3,4	3,4	7	7	7	7,1		3,7	3,7	3,7			6,7	6,7	24	
26					3,3	3,2	3,2	3,3	3,2	3,1	3,2	3,2	3,2	6	6,1	6,1	6,1		3,5	3,5	3,5	3,5			6,2	6,1	26
28														5,4	5,4	5,4	5,4		3,3	3,2	3,3	3,3	5,5	5,5	5,5	5,5	28
30																			3,1	3,1	3,1	3,2	4,8	4,8	4,8	4,8	30
32																							4,2	4,2	4,2	4,2	32

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**90**  
Tonne

All Terrain  
Crane

90

Tonne

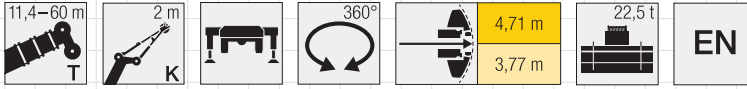
All Terrain  
Crane

# Panel Jib

## 90 Tonne Runner Rating Chart

### 22.5 Tonne FULL Counterweight + 2m Runner

Requires Delivery of Counterweight



Jib Height	35 m 2 m				35,7 m 2 m				37,5 m 2 m				39,4 m 2 m				41,2 m 2 m				43,1 m 2 m				Jib Height	
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°		
7			8,8	8,7			8,6			17,1														7		
8			8,2	8,1			8	7,9			16,9	17,1		7,8	7,6			13,5	9,3					8		
9			7,6	7,5			7,4	7,3			16,7	16,9		7,3	7,2			13,2	13,3			6,8	6,2	9		
10			7,1	7			6,9	6,8			16,4	16,6		6,9	6,8			12,7	12,7			6,5	6	10		
11			6,6	6,5			6,4	6,4			15,8	15,8		6,5	6,4			12,1	12,1			6,2	5,7	11		
12			6,2	6,1			6	6			14,9	14,9		6,1	6			11,4	11,4			5,8	5,4	12		
14			5,4	5,4			5,3	5,2			13,3	13,3		5,4	5,4			10,1	10,1			5,3	4,9	14		
16			4,8	4,7			4,7	4,6			11,9	11,9		4,8	4,8			9,3	9,1			4,8	4,5	16		
18			4,2	4,2			4,2	4,2			10,6	10,7		4,4	4,3			8,6	8,5			4,3	4,1	18		
20			3,8	3,9	3,8		3,8	3,8	3,8		9	9,1		4	4			8,1	7,9			4	3,9	20		
22			3,5	3,5	3,5		3,4	3,5	3,5		7,8	7,8	7,8	3,6	3,7	3,7		7,5	7,4			3,7	3,6	22		
24			3,2	3,3	3,2		3,2	3,2	3,2		7	6,9	6,9	3,4	3,4	3,4		6,7	6,7	6,8		3,4	3,4	24		
26			3	3	3		2,9	2,9	2,9		6	6	6,1	3,1	3,2	3,2		5,7	5,8	5,8		3,1	3,2	3,1	26	
28			2,8	2,8	2,8	2,8	2,7	2,7	2,7		5,2	5,2	5,2	2,9	3	3		4,9	4,9	5		2,9	2,9	2,9	28	
30			2,6	2,6	2,6	2,6	2,5	2,5	2,6	2,6	4,5	4,5	4,5	2,6	2,7	2,8	2,8	4,2	4,2	4,3		2,7	2,7	2,7	30	
32			2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	3,9	4	4	2,6	2,6	2,6	2,6	3,7	3,8	3,8		2,5	2,5	2,5	32	
34			2,3	2,3	2,3	2,3	2,2	2,2	2,3	2,3	3,5	3,5	3,5	2,4	2,4	2,5	2,5	3,6	3,5	3,6	3,6		2,3	2,4	2,4	34
36											3,3	3,3	3,3	2,3	2,3	2,3	2,3	3,2	3,3	3,3	3,3	2,2	2,2	2,2	2,2	36
38														2,2	2,2	2,2	2,3	2,9	2,9	2,9	2,9	2,1	2,1	2,1	2,1	38
40																		2,6	2,6	2,6	2,6	1,9	1,9	2	1,9	40
42																						1,8	1,8	1,9	1,8	42

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Jib Height	43,8 m 2 m				44,9 m 2 m				47,5 m 2 m				48,7 m 2 m				51,3 m 2 m				51,9 m 2 m				Jib Height
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
9			6,7	6,1			10,3	8,5			5,7														9
10			6,4	5,9			10	10,1			5,6	5,5		8	7			5					4,9		10
11			6,1	5,6			9,7	9,7			5,4	5,4		7,8	7,9			4,9	4,9			4,8	4,8	11	
12			5,8	5,4			9,4	9,4			5,2	5,1		7,6	7,7			4,8	4,8			4,7	4,7	12	
14			5,2	4,9			8,6	8,6			4,8	4,7		7,2	7,2			4,5	4,5			4,4	4,4	14	
16			4,7	4,5			7,8	7,8			4,4	4,4		6,6	6,6			4,2	4,2			4,2	4,1	16	
18			4,3	4,1			7,1	7,1			4,1	4,1		6	6			4	4			3,9	3,9	18	
20			4	3,8			6,3	6,3			3,8	3,8		5,5	5,5			3,8	3,7			3,7	3,7	20	
22			3,7	3,6			5,7	5,7			3,6	3,6		5	5			3,5	3,5			3,4	3,4	22	
24			3,4	3,4			5,1	5,2			3,4	3,4		4,6	4,6			3,3	3,3			3,2	3,2	24	
26			3,1	3,2	3,1		4,5	4,7	4,7			3,2	3,2		4,2	4,2			3,1	3,1		3	3	26	
28			2,9	2,9	2,9		4,2	4,3	4,3		3	3	3	3,5	3,9	3,9		2,9	2,9			2,8	2,8	28	
30			2,7	2,7	2,7		4	4,1	4		2,8	2,8	2,8	3,3	3,6	3,6		2,7	2,7	2,7		2,6	2,6	30	
32			2,5	2,5	2,5		3,8	3,8	3,8		2,7	2,6	2,7	3,2	3,3	3,3		2,5	2,5	2,5		2,4	2,4	32	
34			2,4	2,4	2,4		3,4	3,4	3,4		2,5	2,5	2,5	3	3,1	3,1		2,3	2,3	2,3		2,2	2,2	34	
36			2,2	2,2	2,2		3	3	3		2,4	2,3	2,3	2,9	3	3		2,1	2,2	2,2		2,1	2,1	36	
38			2,1	2,1	2,1		2,7	2,7	2,7		2,2	2,2	2,2	2,7	2,7	2,7		2	2	2		1,9	1,9	38	
40			1,9	2	2		2,6	2,6	2,6	2,6	2,1	2,1	2,1	2,3	2,4	2,4	2,4	1,9	1,9	1,9		1,8	1,8	40	
42			1,8	1,9	1,9		2,4	2,4	2,4	2,4	2	2	2	2,2	2,2	2,2	2,2	1,7	1,8	1,7		1,7	1,7	42	
44							2,1	2,1	2,1	2,1	1,9	1,9	1,9	2,1	2,1	2,1	2,1	1,6	1,6	1,6		1,5	1,6	44	
46											1,8	1,8	1,8	1,9	1,9	1,9	1,9	1,5	1,5	1,5		1,4	1,5	46	
48														1,7	1,7	1,7	1,7	1,4	1,4	1,4		1,4	1,4	48	
50																		1,4	1,4	1,4		1,3	1,3	50	

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90

Tonne

All Terrain  
Crane



**90**  
Tonne

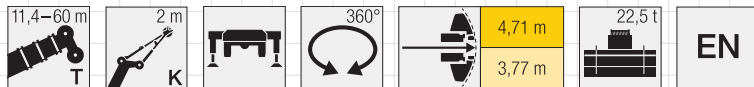
All Terrain  
Crane

# Panel Jib

## 90 Tonne Runner Rating Chart

### 22.5 Tonne FULL Counterweight + 2m Runner

Requires Delivery of Counterweight



Jib Length (m)	52,4 m 2 m				55,6 m 2 m				56,1 m 2 m				59,4 m 2 m				60 m 2 m				Jib Length (m)
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
10			5,9																		10
11			5,8	5,8			4,3				4,6										11
12			5,7	5,7			4,3	4,3			4,6	4,6			3,8				3,7		12
14			5,5	5,5			4,2	4,2			4,4	4,4			3,7	3,8			3,6	3,7	14
16			5,2	5,2			4	4			4,2	4,3			3,7	3,7			3,6	3,6	16
18			4,8	4,8			3,8	3,8			4,1	4,1			3,6	3,6			3,5	3,5	18
20			4,5	4,5			3,6	3,6			3,9	3,9			3,4	3,4			3,4	3,4	20
22			4,1	4,2			3,4	3,4			3,7	3,7			3,2	3,3			3,2	3,2	22
24			3,9	3,9			3,2	3,2			3,5	3,5			3,1	3,1			3	3,1	24
26			3,7	3,7			3	3			3,3	3,3			2,9	2,9			2,9	2,9	26
28			3,4	3,4			2,8	2,8			3,1	3,1			2,7	2,7			2,7	2,7	28
30			3,2	3,2			2,6	2,6			2,9	2,9			2,6	2,6			2,6	2,6	30
32		2,7	3	3			2,4	2,5			2,8	2,8			2,4	2,4			2,4	2,4	32
34		2,6	2,8	2,8			2,3	2,3			2,6	2,6			2,3	2,3			2,3	2,3	34
36		2,4	2,6	2,6			2,1	2,2			2,5	2,5			2,2	2,2			2,2	2,2	36
38		2,3	2,5	2,5			2	2			2,3	2,3			2	2,1			2,1	2,1	38
40		2,1	2,4	2,4			1,9	1,9			2,2	2,2			1,9	1,9			1,9	1,9	40
42		2	2,2	2,2			1,8	1,8			2	2			1,8	1,8			1,8	1,8	42
44		1,9	1,9	1,9			1,7	1,7			1,8	1,8			1,7	1,7			1,7	1,7	44
46		1,8	1,8	1,8			1,6	1,6			1,6	1,6			1,6	1,6			1,6	1,6	46
48		1,6	1,6	1,6			1,5	1,5			1,4	1,4			1,4	1,4			1,4	1,4	48
50		1,4	1,4	1,4			1,4	1,4			1,2	1,2			1,2	1,2			1,2	1,2	50
52							1,2	1,2			1	1			1	1			1	1	52
54							1	1							0,8	0,8					54

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**90**  
Tonne

All Terrain  
Crane

90

Tonne

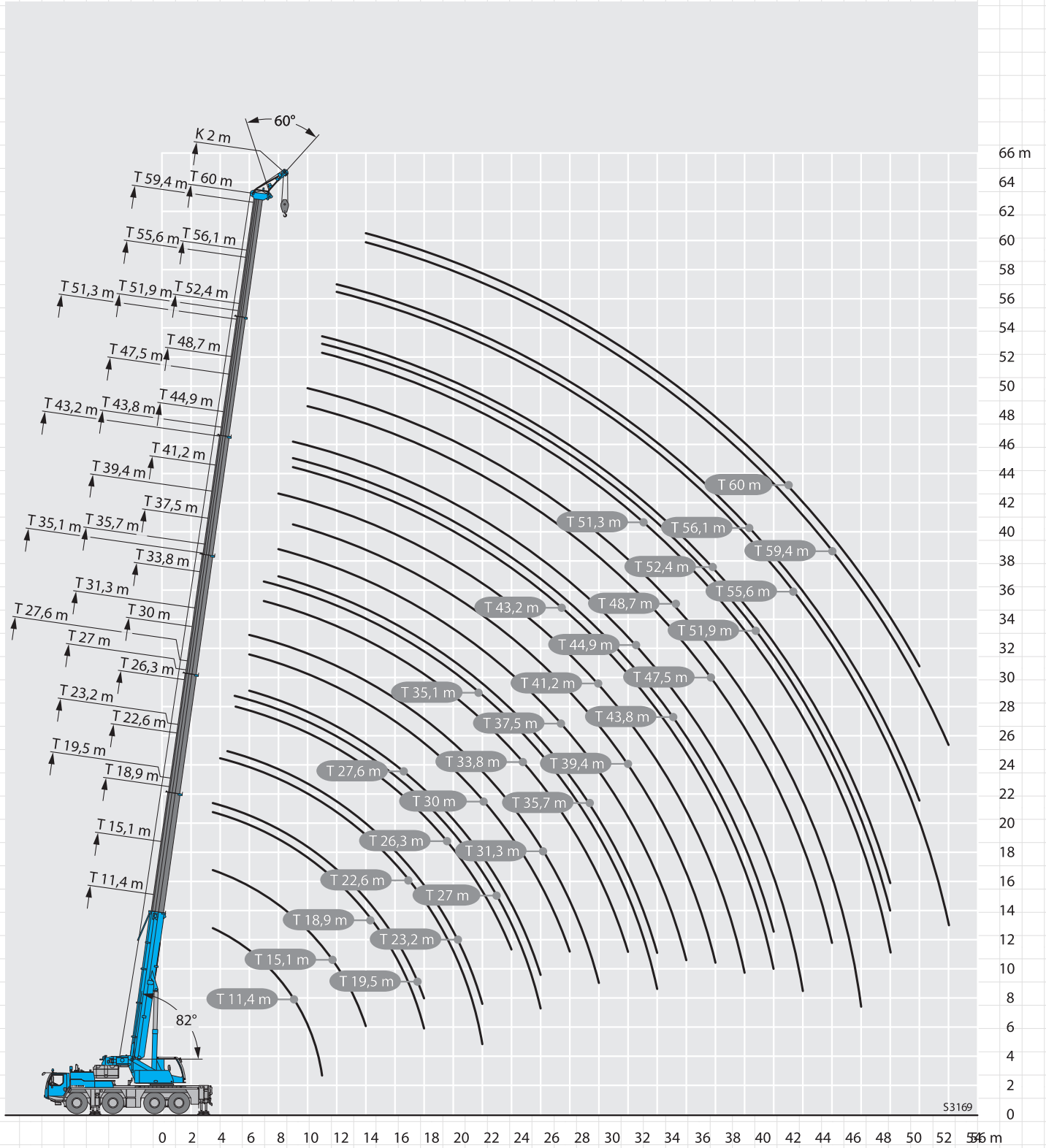
All Terrain  
Crane

# Panel Jib

## 90 Tonne Working Range

22.5 Tonne FULL Counterweight + 2m Runner

Requires Delivery of Counterweight



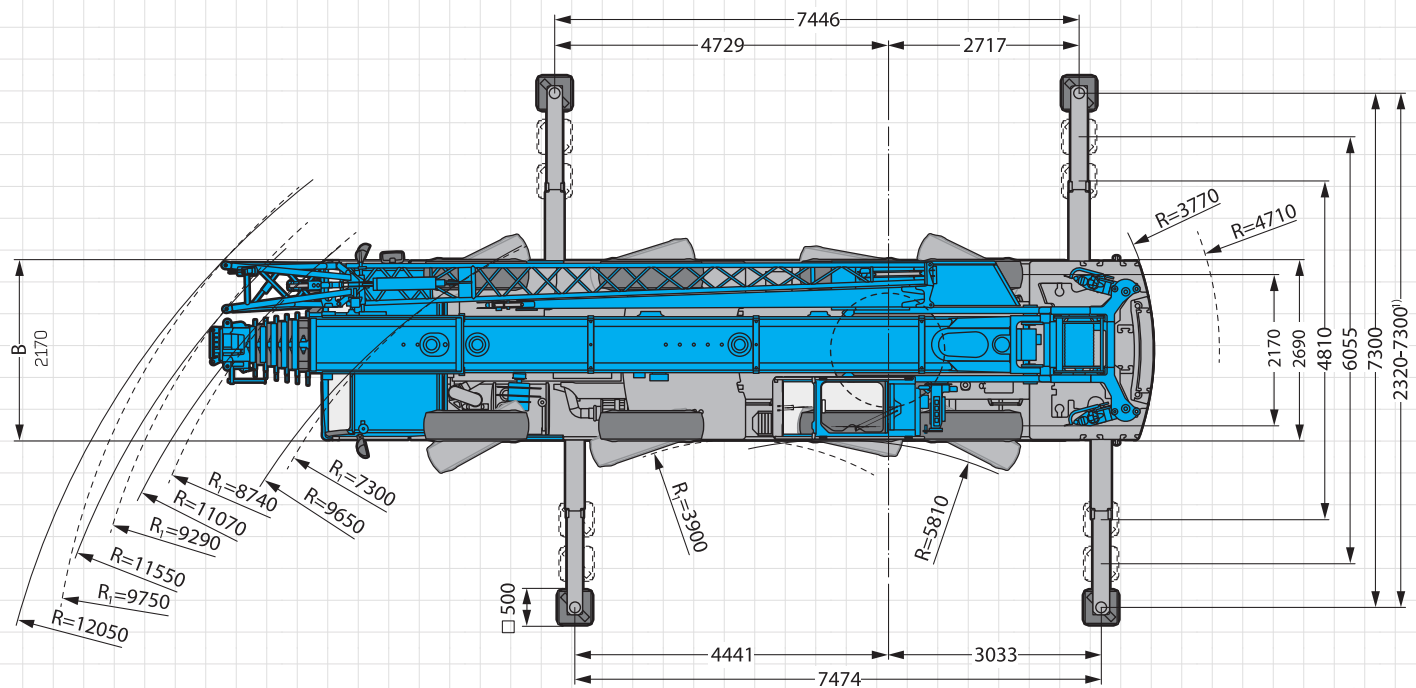
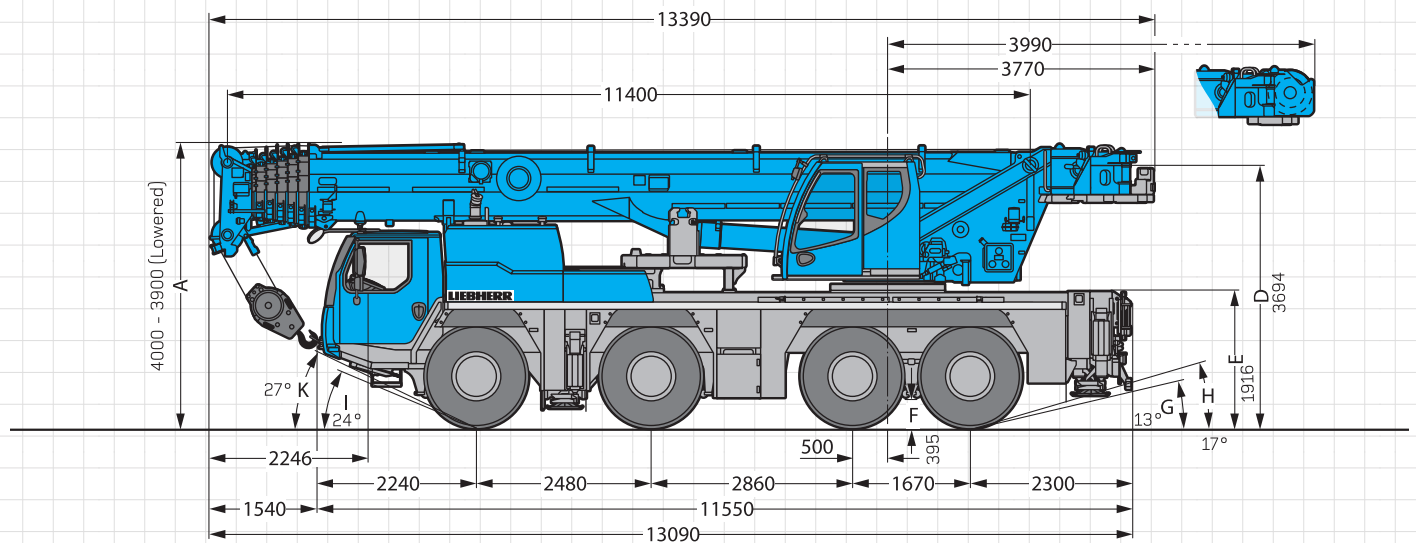
90

Tonne

All Terrain  
Crane



# 90 Tonne Dimensions



S3087.02



**100**  
Tonne

Rough Terrain  
Crane



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**LRT1100 2.1**

**Lift Capacity:** 100.0 Tonne  
**Boom Length:** 50.0 m  
**Fly Length:** 10.5 -19.0 m

**Main Hook Weight:** 450 Kg  
**Aux Hook Weight:** 140 Kg  
**Line Pull:** 6.3 Tonne

## 100 Tonne Rating Chart

Jib Length (m)	12,6 m		17,3 m		22 m		26,6 m		31,3 m		36 m	40,7 m	45,3 m	50 m	Jib Length (m)
	100**	80*	56,8	30,9	53,6	34,4									
2,5	100**	80*													2,5
3	80*	80*	56,8	30,9	53,6	34,4									3
3,5	68,8	68,8	57,4	31,5	53,6	32,3	42,2								3,5
4	64,1	64,1	58	32	53,2	30,2	41,6	29,5							4
4,5	60	60	56,5	32,7	52,1	28,6	41	28							4,5
5	56,4	56,4	53	33,4	50,5	27,1	40,3	26,5	31,9	21,7					5
6	49,7	49,7	47,2	34,1	44,9	24,1	36,9	24,1	30,4	19,7	19,4				6
7	41,5	41,5	42	31,6	39,6	22	33	21,9	28,6	18	18,1	16,3			7
8	35,1	35,1	34,9	29,1	32,5	20	29,6	19,9	26,3	16,6	16,8	15,7			8
9	29,5	29,5	29,1	26,7	27,2	18,4	25,3	18,5	23,3	15,1	15,8	14,9	13,8		9
10	24	24	24,5	24,6	23,3	17,1	21,7	17	20,1	14	14,8	14,1	13,3	10,8	10
12			17,6	18,1	17,5	14,7	16,5	14,8	15,3	12,1	13	12,5	12,2	10,5	12
14			13,3	13,8	13,2	13	12,6	12,9	12,1	10,5	11,6	11,1	11,1	9,9	14
16					10,3	11,2	9,8	11,3	9,4	9,3	10,3	10	10	9	16
18					8,2	9,1	7,7	9,4	7,3	8,2	9,2	8,8	8,5	7,9	18
20							6,2	7,7	5,7	7,4	7,6	7,2	6,9	6,5	20
22							4,9	6,5	4,5	6,4	6,3	6	5,7	5,3	22
24							4,1	5,5	3,7	5,4	5,3	5	4,7	4,3	24
26									3,1	4,6	4,5	4,2	4	3,7	26
28									2,5	4	3,9	3,7	3,5	3,1	28
30											3,4	3,2	3	2,7	30
32											3,1	2,8	2,6	2,3	32
34												2,5	2,2	2	34
36												2,2	1,9	1,7	36
38												1,9	1,7	1,4	38
40													1,5	1,2	40
42													1,3	0,9	42

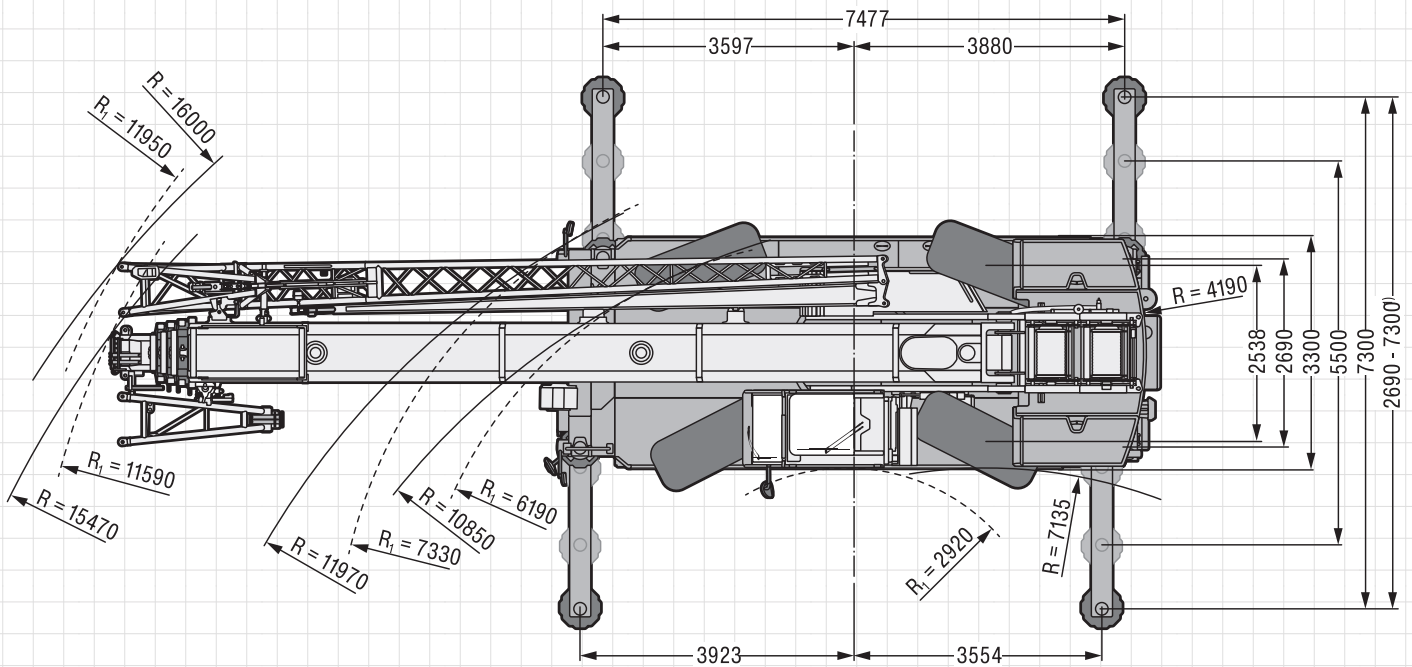
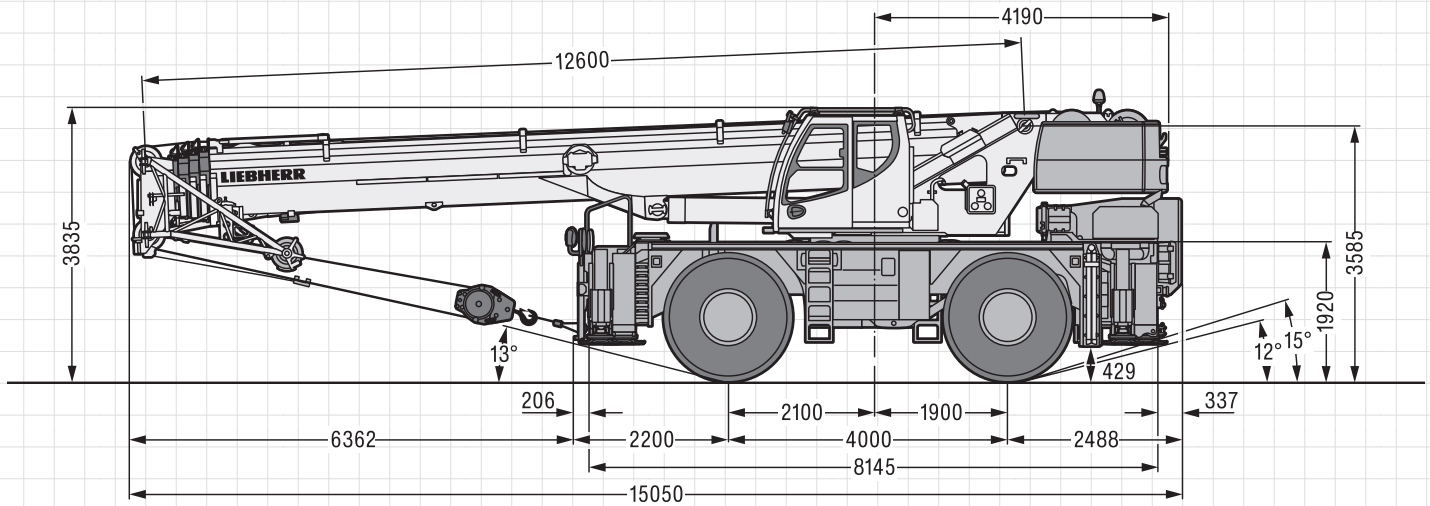
**100**  
Tonne

Rough Terrain  
Crane

**Safety first.  
McLeod first.**



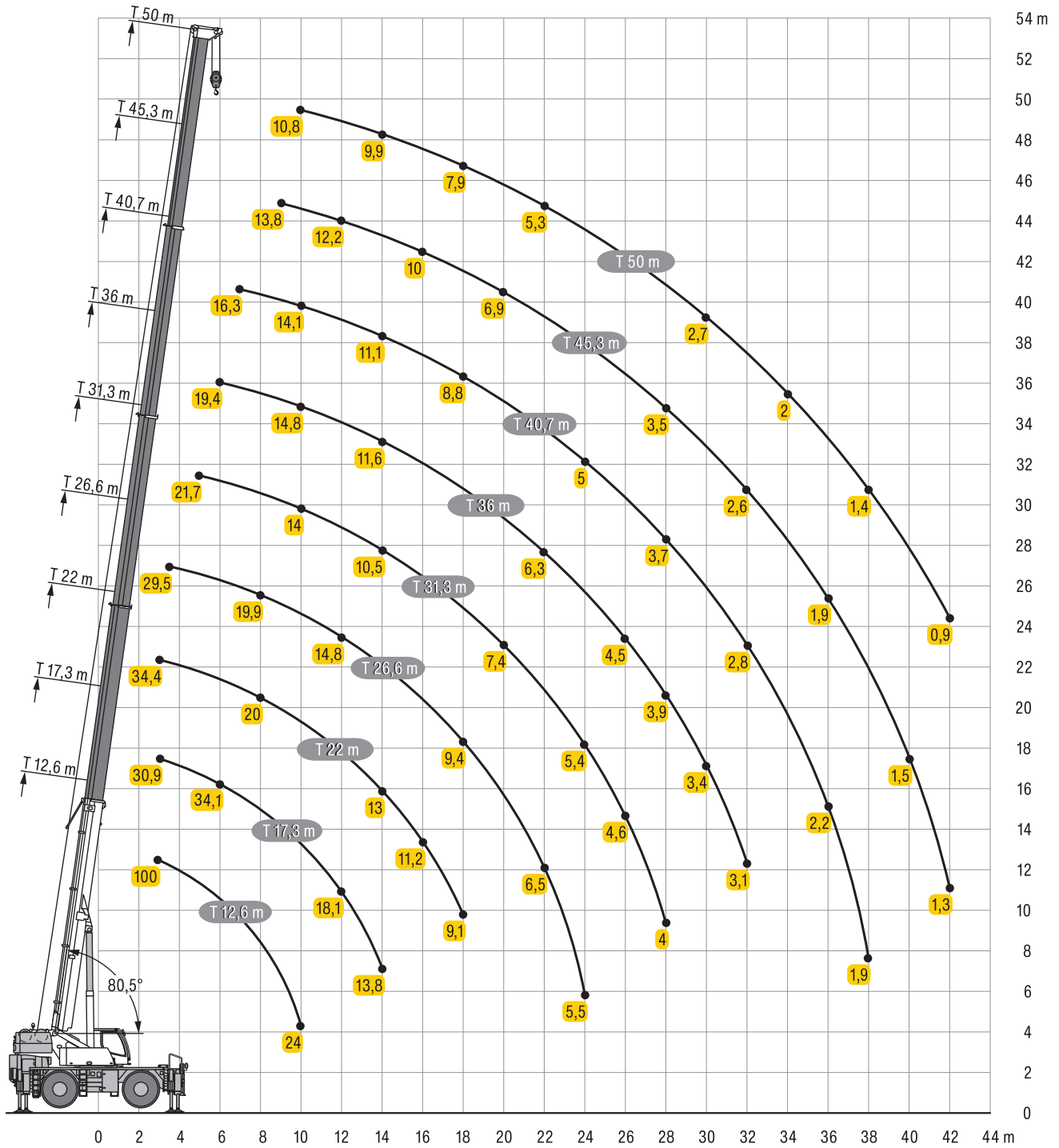
# 100 Tonne Dimensions



100  
Tonne

Rough Terrain  
Crane

# 100 Tonne Working Range

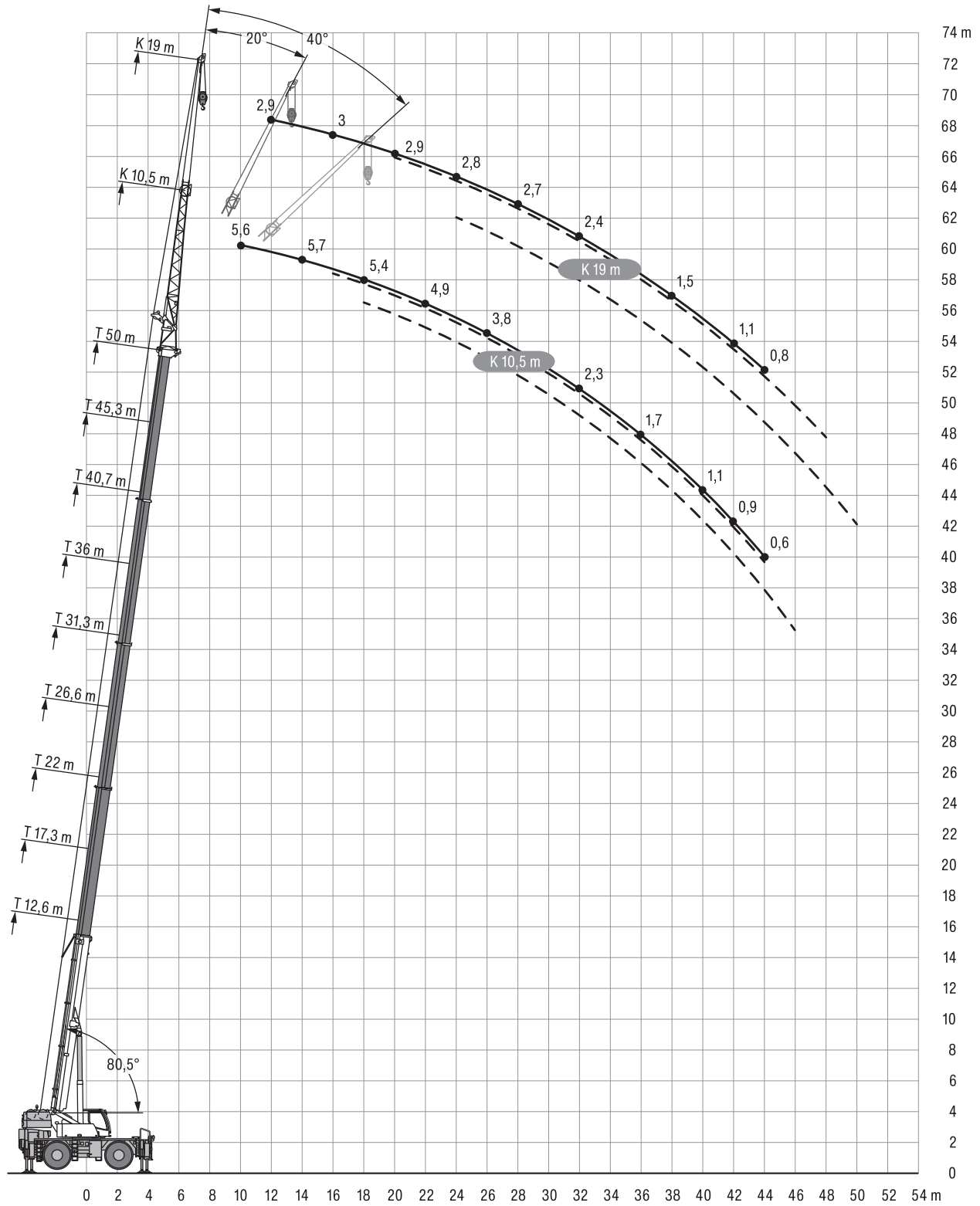


100  
Tonne

Rough Terrain  
Crane

**Safety first.  
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# 100 Tonne Fly Working Range



**100**  
Tonne

All Terrain  
Crane



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DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**GMK5100**

**Lift Capacity:** 100.0 Tonne  
**Boom Length:** 51.0 m  
**Fly Length:** 11.0 -18.0m

**Main Hook Weight:** 675 Kg  
**Aux Hook Weight:** 200 Kg  
**Line Pull:** 7.1 Tonne

## 100 Tonne Rating Chart



12,8 – 51 m



7,5 m



360°



31 t



**DIN/ISO**

m	12,8*	12,8	17,6	22,4	27,1	31,9	36,7	41,5	46,2	51,0
3,0	100,0	93,0	79,0	64,5						
4,0	76,0	76,0	72,5	63,0	50,0	37,0				
5,0	65,5	66,5	63,5	62,0	50,0	37,0	26,0			
6,0	58,5	58,5	56,5	54,5	50,0	37,0	26,0	19,2		
7,0	51,5	51,5	51,0	49,0	47,0	37,0	26,0	19,2	14,7	
8,0	45,5	45,5	46,0	44,5	43,0	35,5	26,0	19,2	14,7	12,2
9,0	38,5	38,5	41,5	40,5	40,0	33,5	25,0	19,2	14,7	12,2
10,0	28,5	28,5	37,5	37,0	36,5	31,0	23,5	19,2	14,7	12,2
11,0			32,5	32,0	32,0	29,5	22,0	18,6	14,7	12,2
12,0			29,0	29,0	28,5	27,5	20,5	18,1	14,7	12,2
13,0			25,5	25,5	25,0	25,5	19,1	17,5	14,6	12,2
14,0			23,0	22,5	22,0	23,0	18,0	16,4	14,5	12,2
15,0				20,5	20,5	20,5	16,9	15,3	13,8	12,0
16,0				18,3	19,2	18,7	15,8	14,3	13,1	11,8
18,0				15,9	16,0	15,5	14,3	12,9	11,9	11,2
20,0					13,5	13,0	12,6	11,5	10,7	10,2
22,0					11,6	11,1	11,7	10,1	9,5	9,4
24,0						10,0	9,6	10,1	9,2	8,8
26,0							9,0	8,8	8,3	8,0
28,0							8,2	7,7	7,6	7,1
30,0								6,8	7,0	6,2
32,0								6,0	6,2	5,8
34,0									5,5	5,4
36,0									4,9	4,9
38,0									4,4	4,3
40,0										3,8
42,0										3,4
44,0										2,6
46,0										2,3

**100**  
Tonne

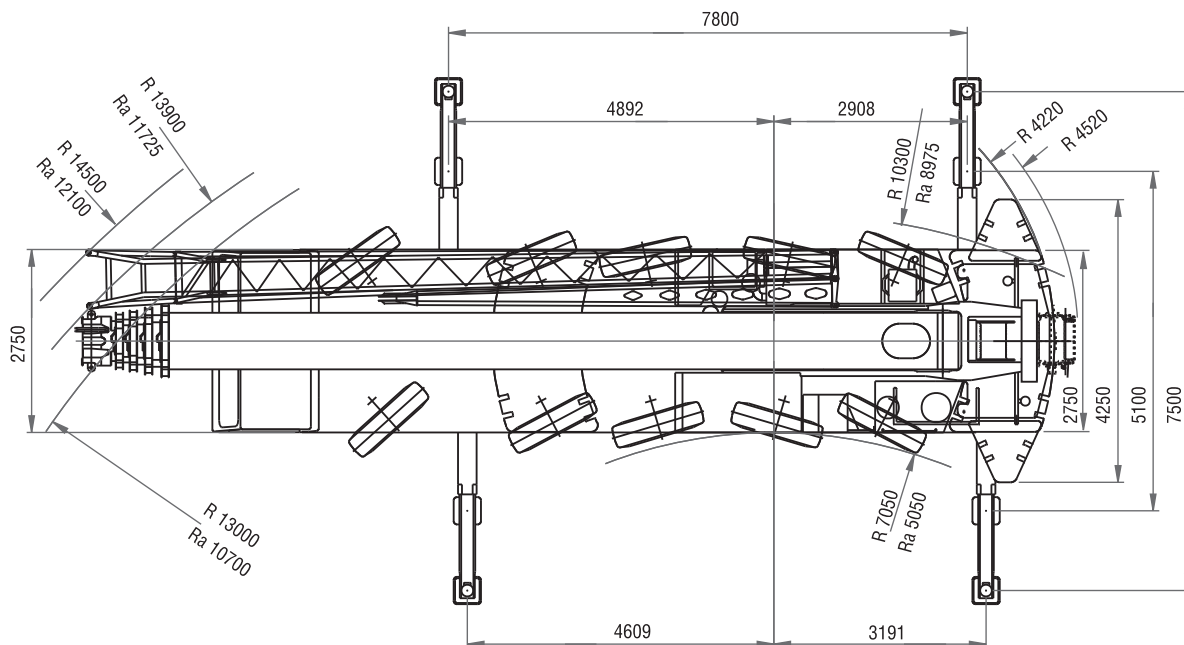
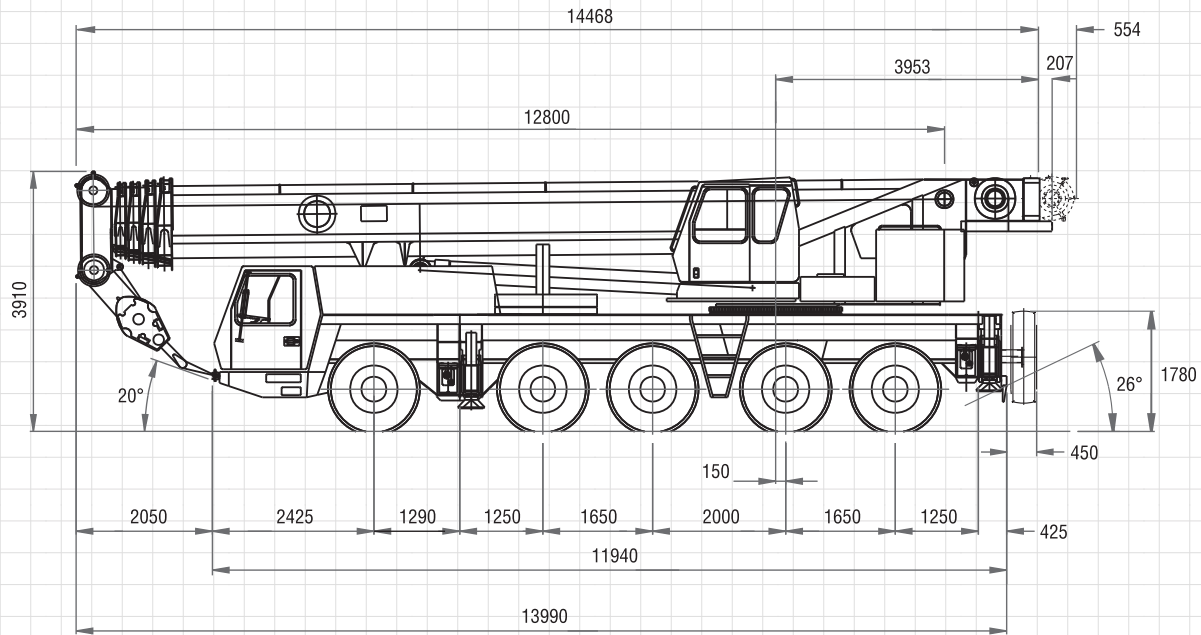
All Terrain  
Crane



100  
Tonne

All Terrain  
Crane

## 100 Tonne Dimensions



100  
Tonne

All Terrain  
Crane

100 Tonne

All Terrain Crane

# 100 Tonne Working Range



12,8 – 51,0 m



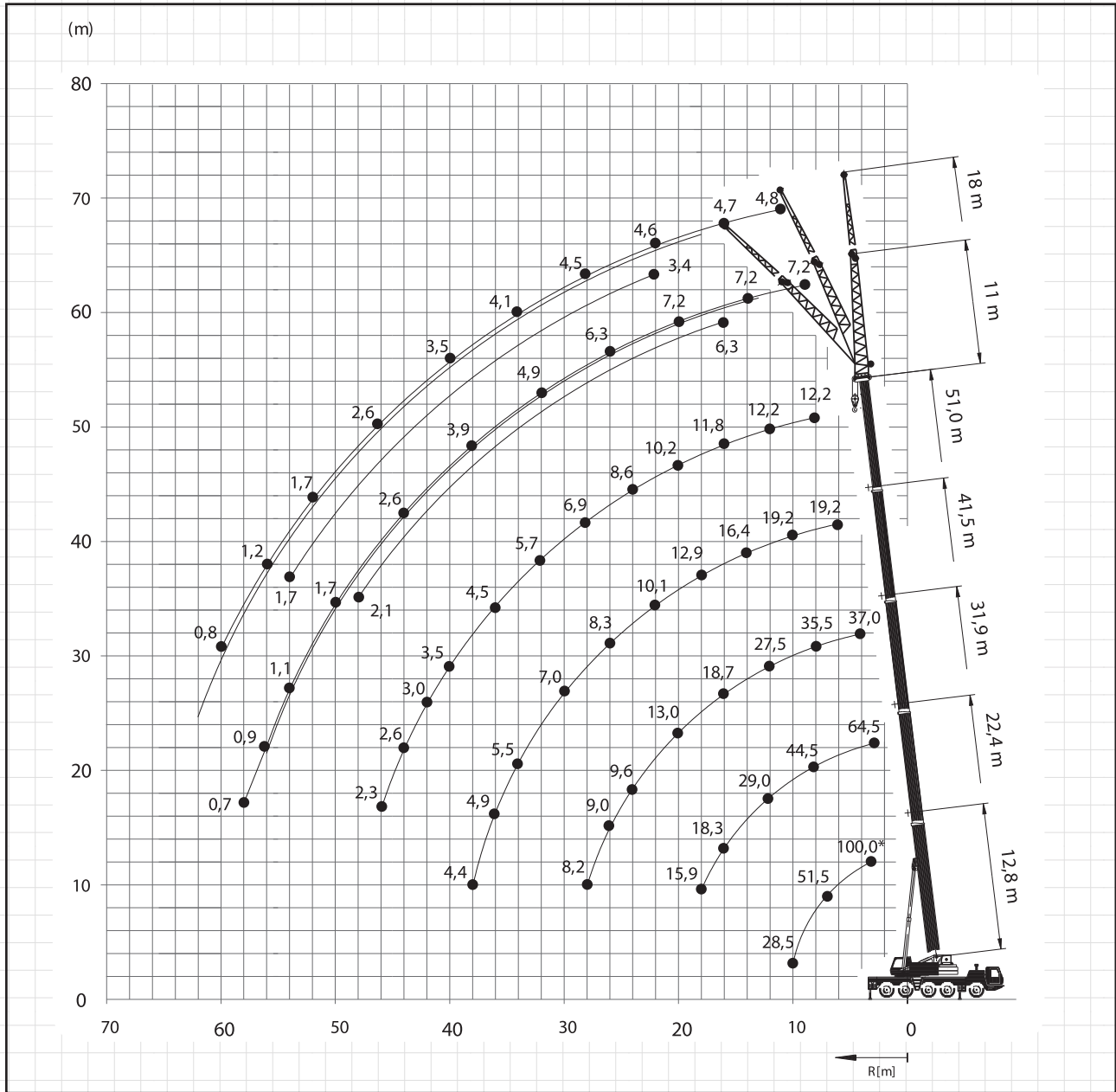
11/18 m



7,5 m



360°



100 Tonne

All Terrain Crane





# MCLEOD

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DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 130 Tonne

All Terrain Crane

### Grove GMK5130

**Lift Capacity:** 130.0 Tonne  
**Boom Length:** 60.0 m  
**Fly Length:** 11.0 -18.0m

**Main Hook Weight:** 675 Kg  
**Aux Hook Weight:** 200 Kg  
**Line Pull:** 7.1 Tonne

## 130 Tonne Rating Chart



12,9 – 60 m



7,5 m



360°



40,1 t



DIN/ISO

m	12,9*	12,9	17,6	22,3	27,0	31,6	36,3	41,1	45,8	50,6	55,3	60,0
2,5	130*/110,0											
3,0	94,5	93,5	86,0	81,0	61,0							
4,0	81,0	78,5	76,5	71,0	61,0	49,0						
5,0	70,5	68,0	67,5	63,5	60,5	49,0	36,5					
6,0	62,0	59,0	59,5	57,5	54,5	47,0	36,5	26,5				
7,0	54,5	52,5	53,0	52,0	50,0	44,0	35,0	26,5	20,0			
8,0	48,0	46,5	47,0	47,0	46,0	41,5	33,0	26,5	20,0	15,0		
9,0	41,0	41,0	42,0	42,0	41,5	39,0	31,5	26,5	20,0	15,0	11,5	
10,0	31,5	31,5	38,0	38,0	37,5	37,0	29,5	25,0	20,0	15,0	11,5	10,0
11,0			34,5	34,5	34,0	34,5	28,0	23,5	20,0	15,0	11,5	10,0
12,0			31,5	31,5	31,0	32,0	26,5	22,5	19,5	15,0	11,5	10,0
13,0			29,0	29,0	28,5	29,5	25,0	21,0	18,6	15,0	11,5	10,0
14,0			24,5	26,0	26,0	26,5	23,5	19,7	17,7	15,0	11,5	10,0
15,0				23,5	24,5	24,0	22,5	18,7	16,8	15,0	11,5	10,0
16,0				21,0	22,0	21,5	21,5	17,6	15,9	14,5	11,5	10,0
18,0				18,2	18,2	17,6	18,4	15,8	14,4	13,0	11,5	10,0
20,0					15,3	16,1	15,5	13,9	12,7	11,9	11,1	9,7
22,0					13,0	13,8	13,3	12,6	11,5	10,8	10,3	9,1
24,0					9,5	12,0	11,4	11,6	10,4	9,8	9,4	8,6
26,0						10,5	9,9	10,5	9,4	8,9	8,6	8,0
28,0						9,2	9,3	9,2	8,1	8,2	7,9	7,6
30,0							8,7	8,1	7,5	7,2	7,3	7,1
32,0							7,7	7,2	6,9	6,3	6,5	6,4
34,0								6,4	6,2	5,5	5,7	5,7
36,0								5,7	5,9	4,8	5,3	5,3
38,0									5,3	4,5	5,0	4,8
40,0									4,7	4,2	4,6	4,2
42,0									4,2	3,9	4,1	3,7
44,0										3,6	3,7	3,3
46,0										3,4	3,3	2,9
48,0											2,9	2,5
50,0											2,5	2,1
52,0												1,8
54,0												1,5
56,0												1,3



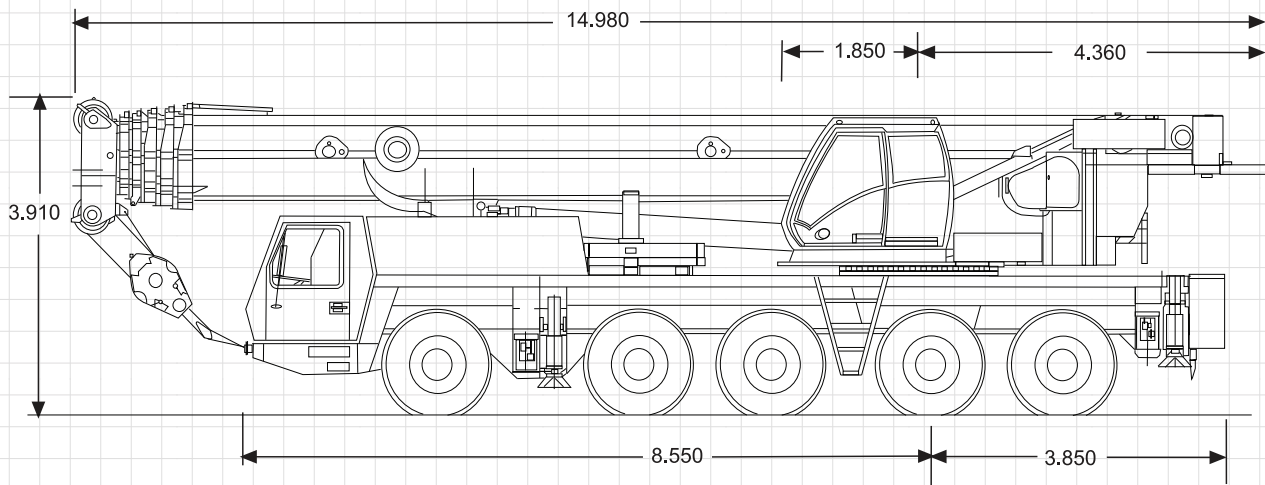
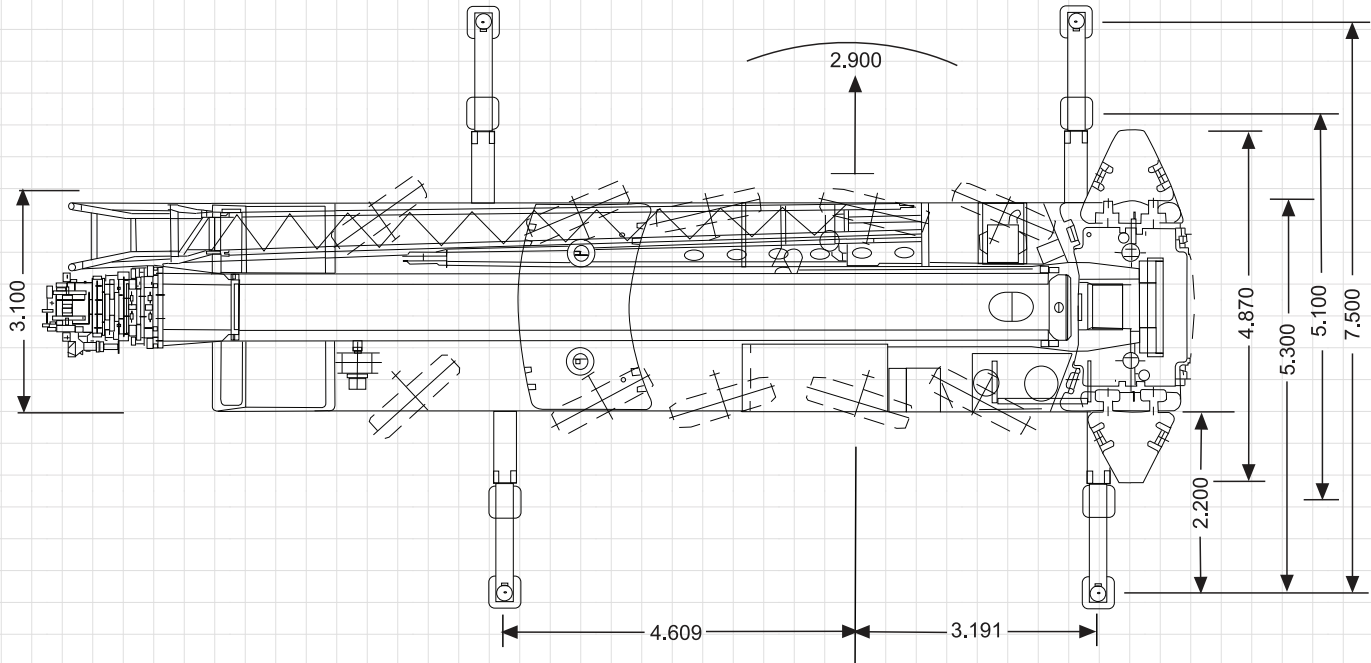
## 130 Tonne

All Terrain Crane

**130**  
Tonne

All Terrain  
Crane

## 130 Tonne Dimensions



**130**  
Tonne

All Terrain  
Crane

**Safety first.  
McLeod first.**



**130**  
Tonne

All Terrain  
Crane

## 130 Tonne Working Range



12,9–60,0 m



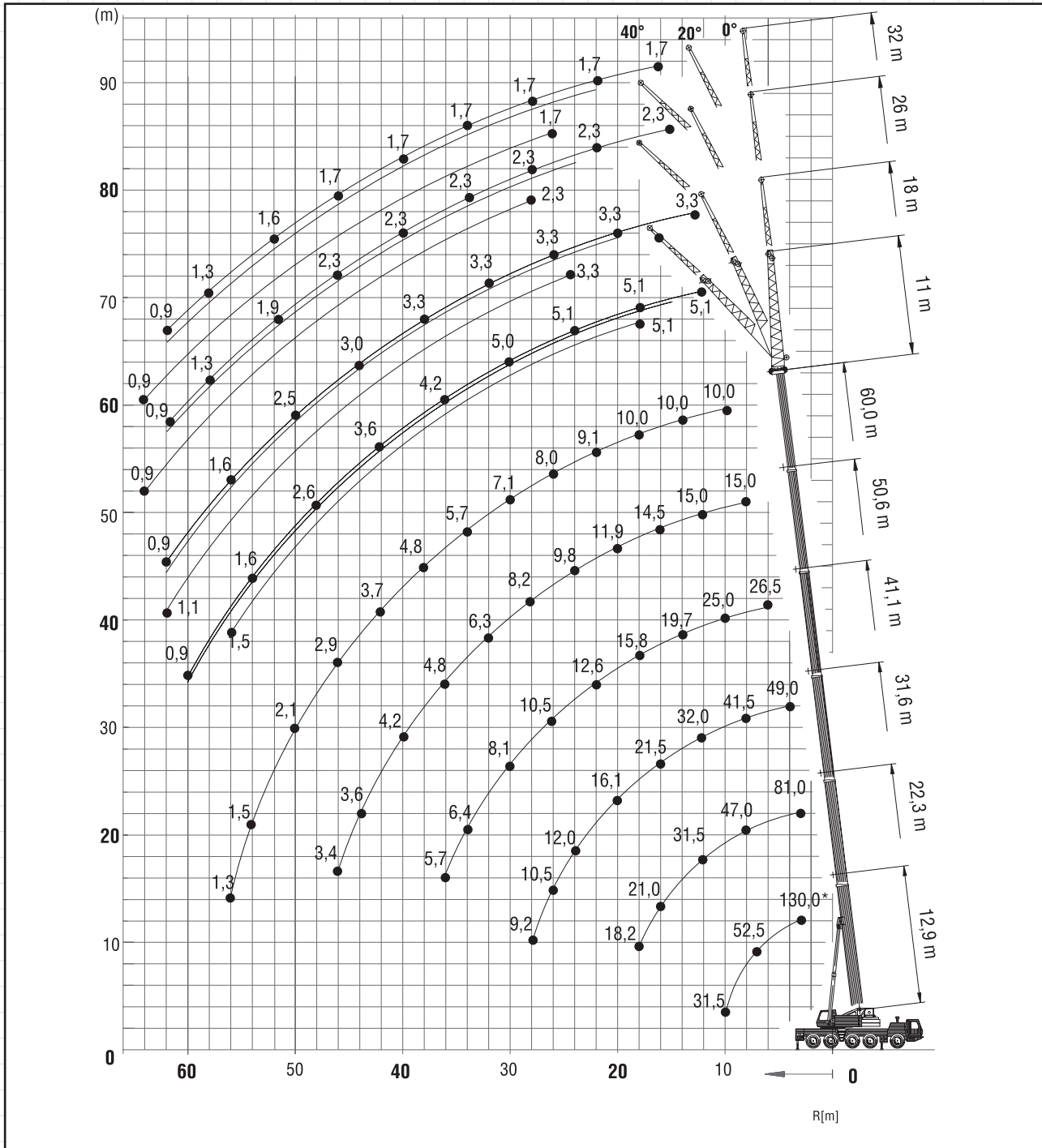
11/18/  
26/32 m



7,5 m



360°



**130**  
Tonne

All Terrain  
Crane

**170**  
Tonne

All Terrain  
Crane



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DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**Grove GMK5170**

**Lift Capacity:** 170.0 Tonne  
**Boom Length:** 64.0 m  
**Fly Length:** 11.0 -18.0m

**Main Hook Weight:** 600 Kg  
**Aux Hook Weight:** 200 Kg  
**Line Pull:** 9.1 Tonne

## 170 Tonne Rating Chart



13,7 - 64,0 m



7,8 m



360°



53,1 t



EN 13000

m	13,70*	13,70	18,80	23,87	28,90	33,91	38,85	43,95	49,02	54,05	59,06	64,00
2,5	170,0/140,0	-	-	-	-	-	-	-	-	-	-	-
3,0	125,0	125,0	102,0	91,0	76,0	-	-	-	-	-	-	-
4,0	109,0	109,0	95,5	84,5	75,5	58,0	-	-	-	-	-	-
5,0	95,0	94,5	91,5	78,0	70,5	58,0	44,0	-	-	-	-	-
6,0	84,0	82,5	82,0	74,0	66,5	58,0	44,0	31,5	-	-	-	-
7,0	74,5	72,5	73,5	70,0	63,0	56,5	43,5	31,5	24,0	-	-	-
8,0	66,0	65,0	65,5	63,5	60,5	53,0	42,5	31,5	24,0	18,3	-	-
9,0	58,0	58,0	59,0	57,5	57,0	50,5	40,5	31,5	23,5	18,3	14,6	-
10,0	48,5	48,5	53,5	52,5	52,5	47,0	38,5	31,5	23,5	18,3	14,6	12,0
11,0	-	-	49,0	47,5	48,5	44,5	37,0	30,5	23,5	18,2	14,5	12,0
12,0	-	-	45,0	43,5	44,5	41,5	35,0	28,5	23,0	18,2	14,5	12,0
13,0	-	-	41,0	41,0	41,0	39,5	33,5	27,0	22,5	17,9	14,5	12,0
14,0	-	-	36,5	38,5	37,5	37,5	32,0	25,0	22,0	17,7	14,5	12,0
15,0	-	-	31,0	35,0	34,0	35,5	30,5	23,5	21,0	17,4	14,5	12,0
16,0	-	-	-	32,0	31,5	32,5	29,5	22,5	20,5	17,2	14,5	12,0
18,0	-	-	-	27,5	26,5	27,5	26,5	20,0	18,4	16,2	14,0	12,0
20,0	-	-	-	21,5	23,5	23,0	24,0	17,7	16,9	15,2	13,4	12,0
22,0	-	-	-	-	20,5	19,7	20,5	16,2	15,4	14,3	12,8	11,7
24,0	-	-	-	-	17,7	17,8	17,9	14,7	14,1	13,2	12,1	11,2
26,0	-	-	-	-	-	16,4	15,7	13,7	12,8	12,1	11,4	10,5
28,0	-	-	-	-	-	14,5	13,8	12,8	11,8	11,1	10,6	9,7
30,0	-	-	-	-	-	12,1	12,2	12,1	10,8	10,2	9,9	8,8
32,0	-	-	-	-	-	-	10,8	11,5	10,0	8,8	8,5	8,3
34,0	-	-	-	-	-	-	9,9	10,3	8,9	8,2	7,9	7,7
36,0	-	-	-	-	-	-	-	9,2	7,9	7,5	7,3	7,2
38,0	-	-	-	-	-	-	-	8,3	7,3	7,0	6,8	6,8
40,0	-	-	-	-	-	-	-	7,1	6,9	6,5	6,3	6,3
42,0	-	-	-	-	-	-	-	-	6,6	6,1	5,9	5,9
44,0	-	-	-	-	-	-	-	-	6,4	5,9	5,4	5,5
46,0	-	-	-	-	-	-	-	-	-	5,6	4,9	5,1
48,0	-	-	-	-	-	-	-	-	-	5,3	4,6	4,7
50,0	-	-	-	-	-	-	-	-	-	4,5	4,3	4,2
52,0	-	-	-	-	-	-	-	-	-	-	4,1	3,7
54,0	-	-	-	-	-	-	-	-	-	-	3,8	3,3
56,0	-	-	-	-	-	-	-	-	-	-	-	2,9
58,0	-	-	-	-	-	-	-	-	-	-	-	2,6
60,0	-	-	-	-	-	-	-	-	-	-	-	2,0

\* Over rear • Nach hinten • En arrière • Por la parte trasera • Sul posteriore • Над задней частью

**170**  
Tonne

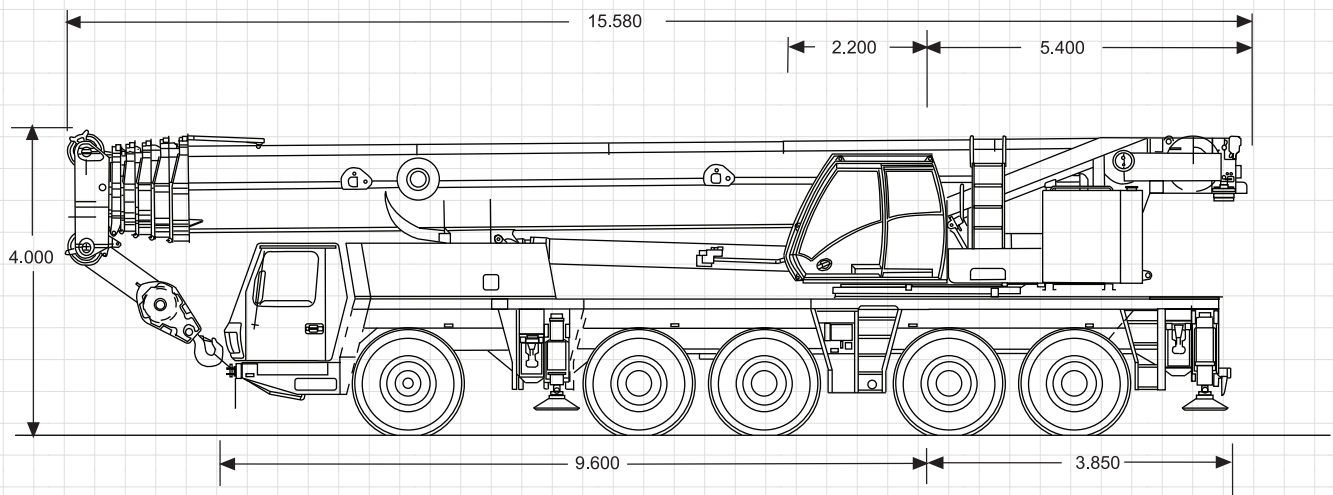
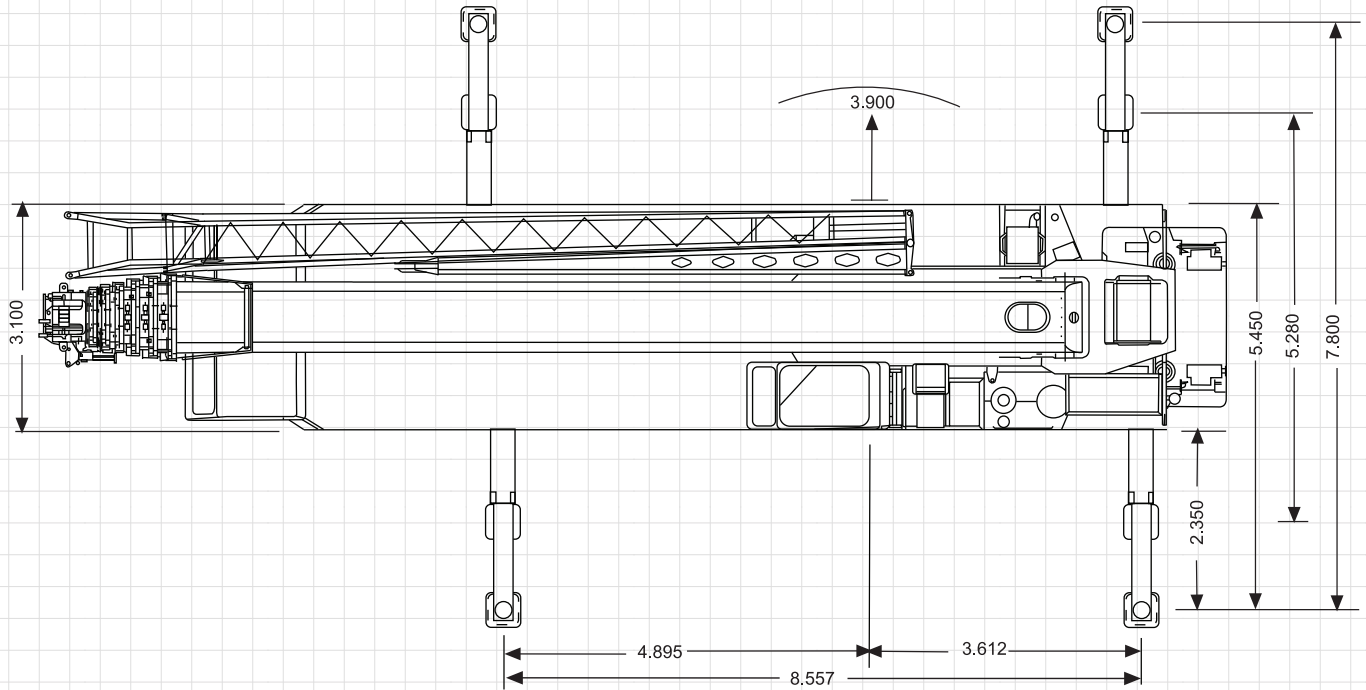
All Terrain  
Crane



**170**  
Tonne

All Terrain  
Crane

## 170 Tonne Dimensions



**170**  
Tonne

All Terrain  
Crane

170  
Tonne

All Terrain  
Crane

# 170 Tonne Working Range



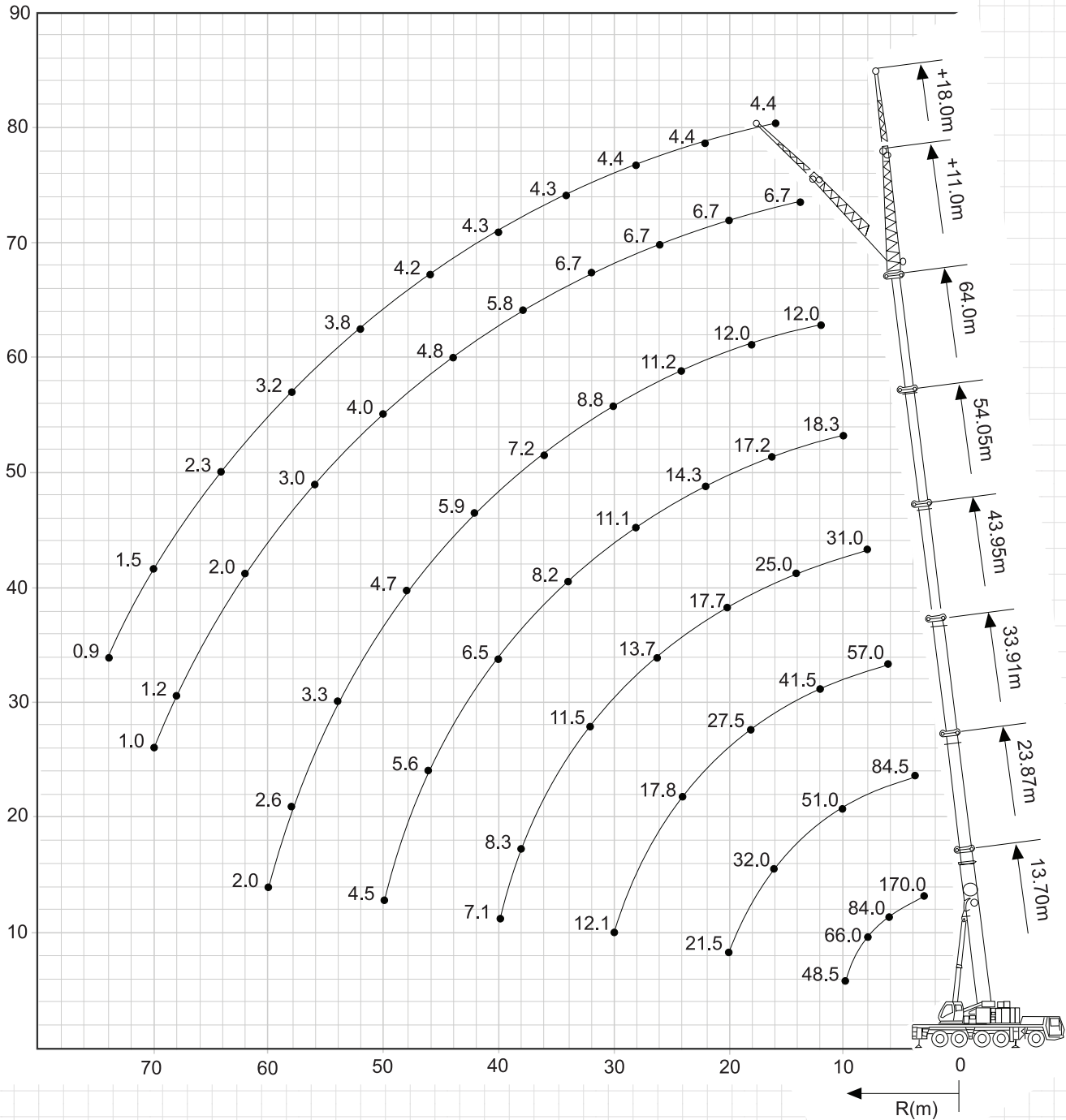
13,7 – 64,0 m



7,8 m



360°



170  
Tonne

All Terrain  
Crane





# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

## 230 Tonne

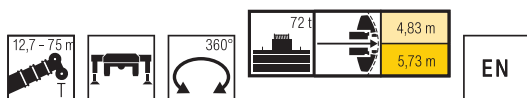
All Terrain Crane

### Liebherr LTM1230 5.1

**Lift Capacity:** 230.0 Tonne  
**Boom Length:** 75.0 m  
**Fly Length:** 4 - 43.0 m

**Main Hook Weight:** 1450 Kg (3 sheve)  
**Aux Hook Weight:** 500 Kg  
**Line Pull:** 10.5 Tonne

## 230 Tonne Rating Chart



	12,7m	16,7m	20,8m	24,8m	28,8m	32,9m	36,9m	40,9m	44,9m		
3	230	134	122,1	121,4						3	
3,5	145,8	134	123,1	122	121,2					3,5	
4	138,5	130,8	124,2	121,8	121,8	105,9				4	
4,5	131,8	122,4	121,7	121,4	117,1	106,3				4,5	
5	122,8	114,9	114,7	113,2	106,8	102,2	91,1			5	
6	107,5	101,4	101,7	99,4	95,7	90,9	86,9	80		6	
7	95,5	90,6	91,2	89,8	86,8	82,9	79,6	75,6	66,5	43	7
8	85,3	81,5	82,3	80,7	79,2	76	72,5	68,8	65,3	51,8	8
9	76	73,7	74,7	73,3	71,9	69,5	66,2	64	61,3	49	9
10	66,4	66,4	68,1	67,1	65,9	64	61	59,4	56,8	46,1	10
11	52,6	52,6	62,2	61,8	60,8	59	56,5	55,1	52,6	43,4	11
12			57,1	57	56,3	54,6	52,6	51,4	49	40,9	12
13			52,3	52,2	52,4	50,8	49,6	48,2	45,9	38,6	13
14			46,3	48,1	48,8	47,5	46,9	45,3	43,1	36,5	14
15			37,1	44,3	45	44,5	44,1	42,7	40,6	34,6	15
16				40,9	41,6	41,3	41,5	40,2	38,4	32,8	16
18				34,5	35,9	35,6	36,2	35,6	34,4	29,6	18
20					31,3	31,9	31,6	31,1	30,3	26,8	20
22					26,4	28,3	27,9	27,4	26,8	24,3	22
24						25,1	24,7	24,1	23,4	22,1	24
26						21,4	21,9	21,4	20,6	20,4	26
28							19,6	19	18,3	18,9	28
30							17	17	17,3	17	30
32								15,4	16	15,2	32
34								14,4	14,5	13,7	34
36									13,2	12,4	36
38									11,4	11,3	38
40										10,7	40
42										9,8	42

	48,9m	52,9m	56,9m	60,8m	64,8m	68,8m	69,6m	72,3m	74,1m	75m	
8	39,2										8
9	42,1	34,9									9
10	40	34	28,8								10
11	38	32,9	28,3	23,8							11
12	36,1	31,9	27,4	23,5	19,7						12
13	34,3	30,8	26,4	22,8	19,5	16,4	15,3	12,5			13
14	32,6	29,7	25,5	22,1	19,2	16,2	15,6	12,7	12	11,7	14
15	31,1	28,4	24,6	21,4	18,8	15,9	15,4	12,6	11,9	11,6	15
16	29,7	27,2	23,7	20,7	18,2	15,6	15,1	12,3	11,7	11,4	16
18	27,2	25,1	22,1	19,4	17,2	14,9	14,4	11,9	11,3	11	18
20	25,3	23,2	20,7	18,2	16,2	14,3	13,8	11,4	10,8	10,6	20
22	23,5	21,5	19,4	17,1	15,3	13,6	13,2	10,9	10,4	10,2	22
24	21,7	19,9	18,1	16,1	14,5	12,9	12,6	10,4	9,9	9,7	24
26	19,9	18,5	16,9	15,1	13,7	12,3	12	9,9	9,4	9,3	26
28	18,3	17	15,7	14,1	12,9	11,6	11,3	9,5	8,9	8,8	28
30	16,3	15,7	14,6	13,3	12,1	10,9	10,7	9	8,4	8,3	30
32	14,9	14,3	13,8	12,4	11,4	10,3	10,1	8,6	7,9	7,9	32
34	13,4	13,1	13	11,6	10,7	9,7	9,6	8,2	7,5	7,4	34
36	12,1	12,2	11,9	10,9	10,1	9,2	9	7,9	7,1	7	36
38	11,4	11,4	10,8	10,2	9,5	8,6	8,5	7,5	6,7	6,6	38
40	10,7	10,4	9,7	9,6	9	8,2	8	7,2	6,3	6,2	40
42	9,8	9,4	8,8	8,8	8,5	7,7	7,6	6,9	5,9	5,8	42
44	9	8,6	8,2	8,1	8	7,3	7,2	6,6	5,6	5,4	44
46	7,6	8	7,8	7,7	7,5	6,9	6,8	6,3	5,3	5	46
48		7,7	7,2	7,1	6,9	6,5	6,5	6	5	4,7	48
50		6,6	6,8	6,6	6,3	6	6,1	5,7	4,7	4,4	50
52			6,5	6,3	5,7	5,4	5,5	5,4	4,4	4,1	52
54			5,6	5,8	5,3	4,9	5	5	4,2	3,9	54
56				5,3	4,9	4,4	4,5	4,5	4	3,6	56
58				4,3	4,5	4,1	4,1	4,2	3,8	3,4	58
60					4,2	3,7	3,8	3,8	3,6	3,2	60
62					3,2	3,4	3,5	3,5	3,4	3	62
64						3,1	3,1	3,2	3,1	2,8	64
66						2,2	2,7	2,9	2,8	2,7	66
68								2,6	2,5	2,4	68
70								1,5	2,2	2,1	70
72									1	1,5	72



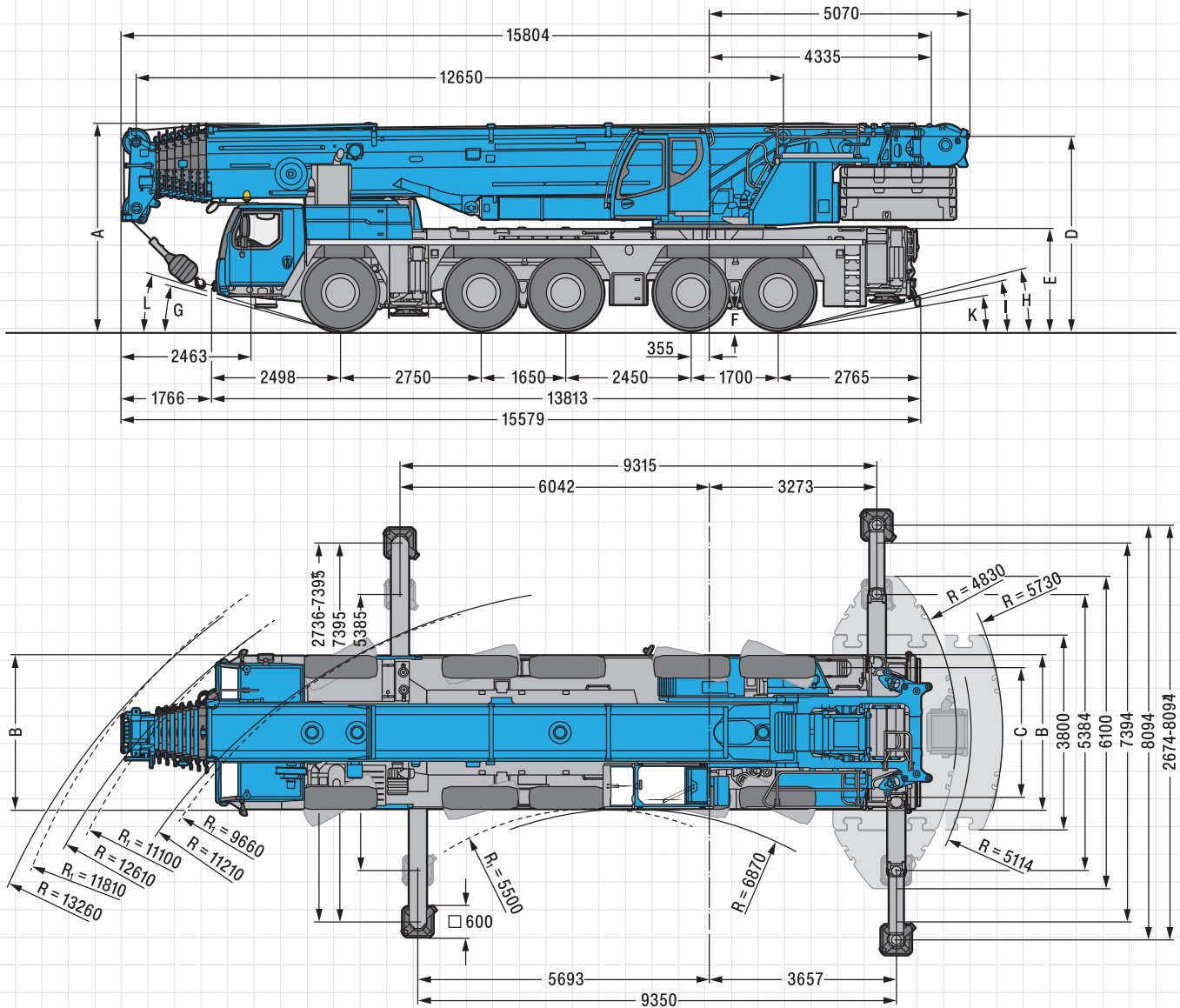
## 230 Tonne

All Terrain Crane

230  
Tonne

All Terrain  
Crane

## 230 Tonne Dimensions

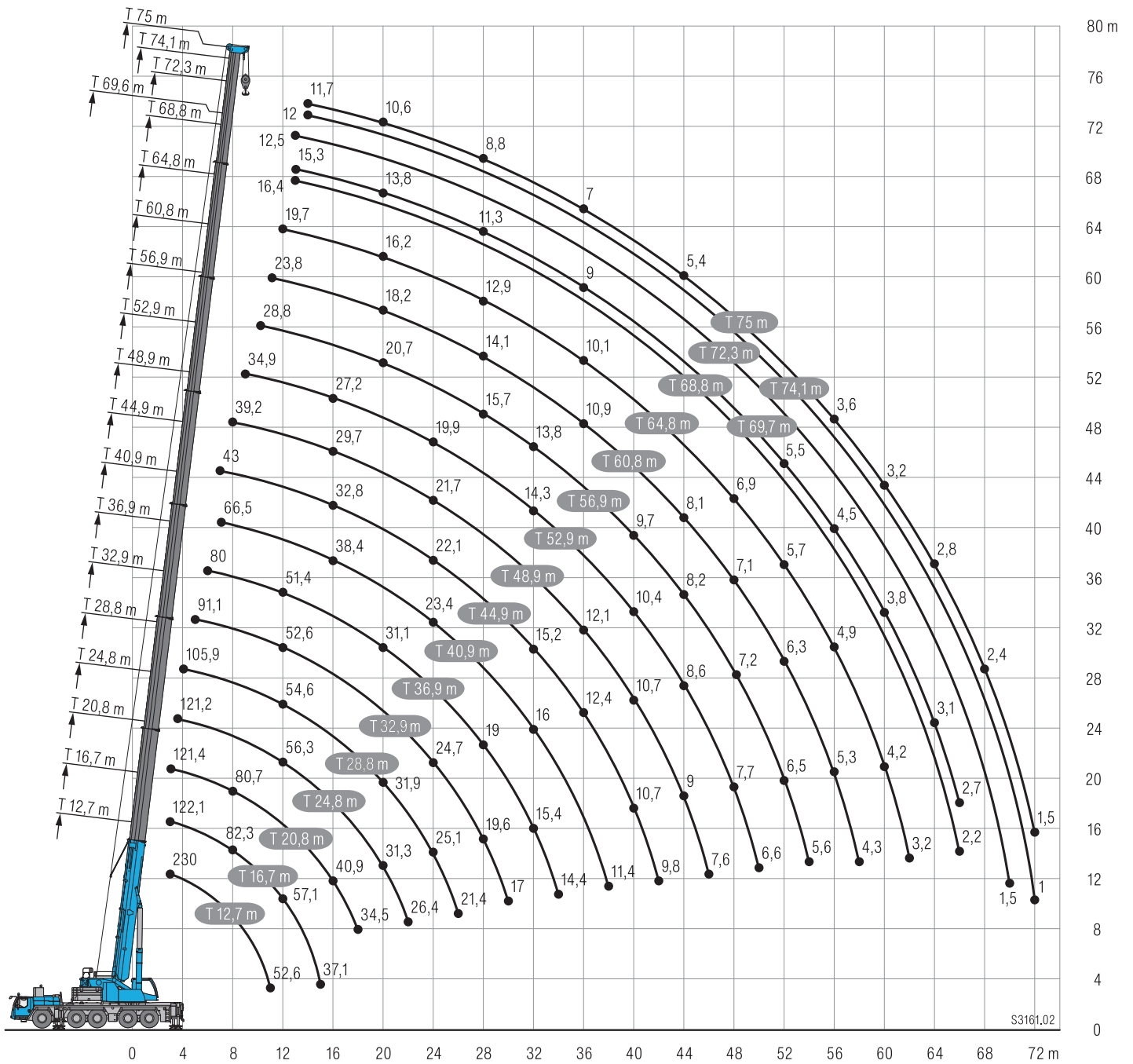


230  
Tonne

All Terrain  
Crane

**Safety first.  
McLeod first.**

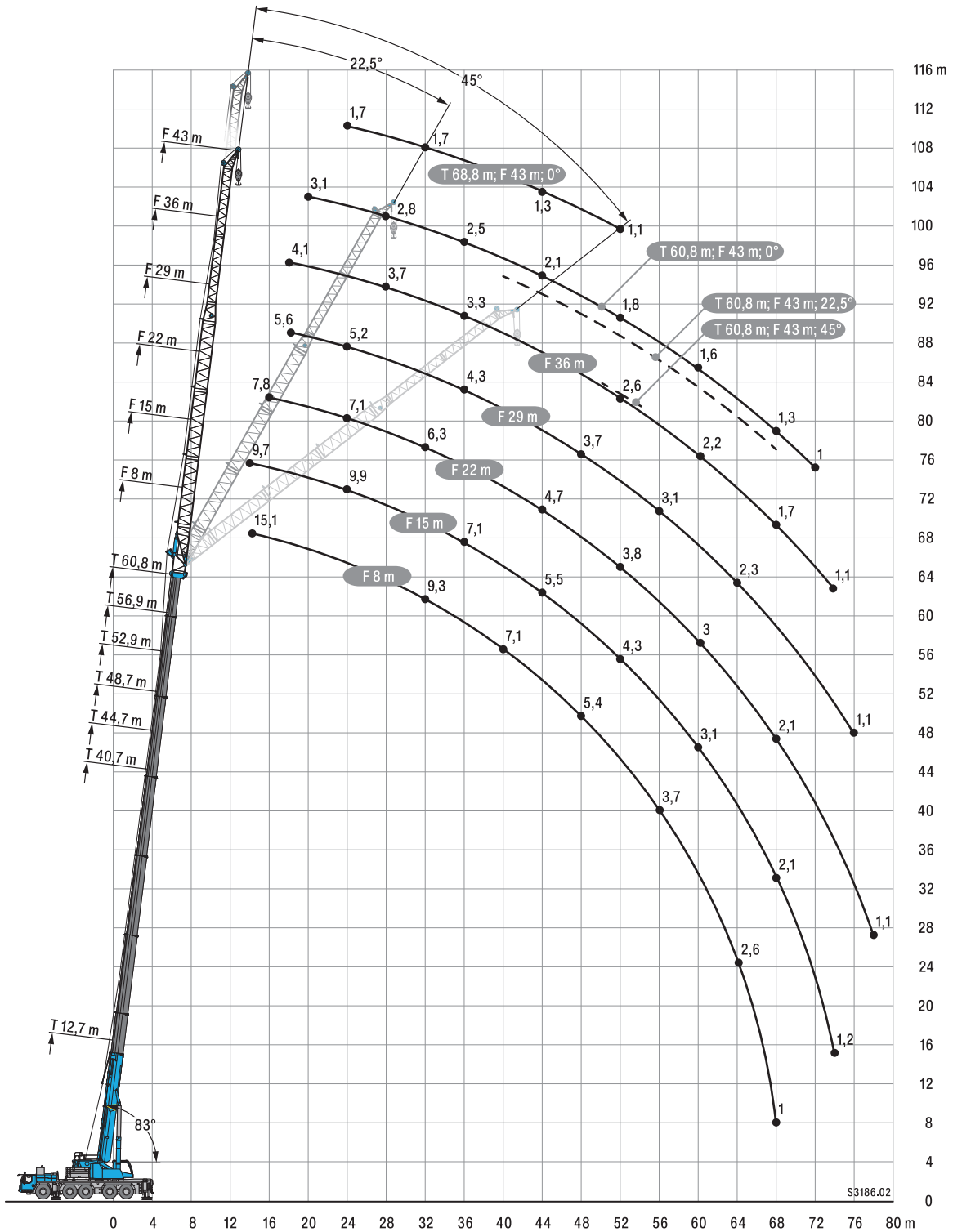
## 230 Tonne Working Range



**230**  
Tonne

All Terrain  
Crane

## 230 Tonne Working Range Hydraulic Luffing Fly



This crane has significant fly options. Talk to us to learn more.

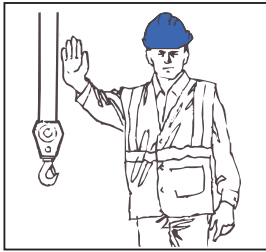
**230**  
Tonne

All Terrain  
Crane

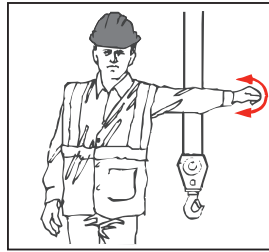
**Safety first.  
McLeod first.**



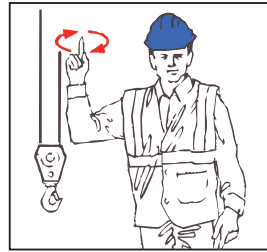
# Crane Signals



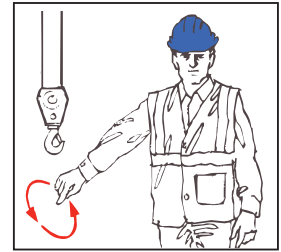
**STOP**



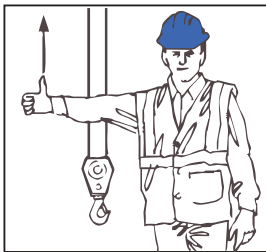
**STOP (B)**  
(Tower Crane)



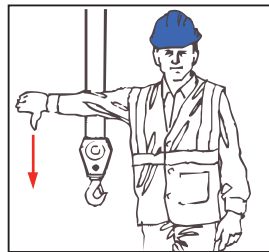
**HOIST**



**LOWER**



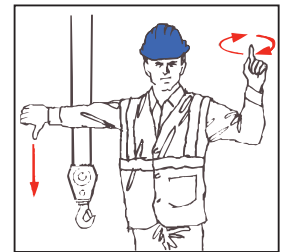
**LUFF UP**  
(Raise Boom)



**LUFF DOWN**  
(Lower Boom)



**LUFF UP HOIST DOWN**



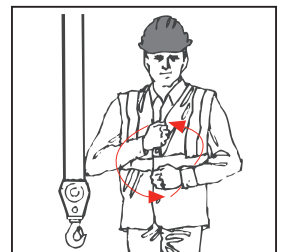
**LUFF DOWN HOIST UP**



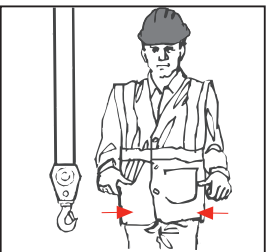
**SLEW**



**MCLEOD**



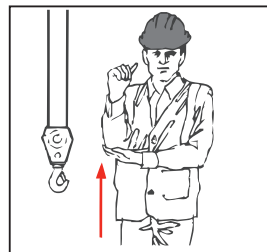
**TRAVEL**



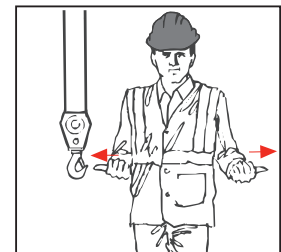
**RETRACT BOOM or  
TROLLEY IN**  
(Tower crane)



**USE MAIN HOIST**



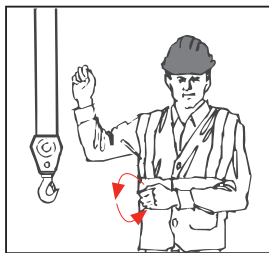
**USE FLYLINE**  
(auxiliary hoist)



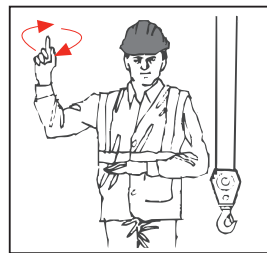
**EXTEND BOOM or  
TROLLEY OUT**  
(Tower Crane)



**HOLD EVERYTHING**



**TRAVEL ONE TRACK**  
(Crawler Cranes Only)



**MOVE SLOWLY**



**FINISHED WITH CRANE**

**300**  
Tonne

All Terrain  
Crane



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**Demag AC300-6**

**Lift Capacity:** 300.0 Tonne  
**Boom Length:** 80.0 m  
**Fly Length:** 11 - 21.0 m

**Main Hook Weight:** 900 Kg (3 sheave)  
**Aux Hook Weight:** 500 Kg  
**Line Pull:** 11.5 Tonne

**300 Tonne Rating Chart**

93,8 t		8,70 m x 8,50 m														360°		EN13000		
0°		14,5	14,5	19,5	24,4	29,4	34,3	39,3	(m)		44,2	49,2	54,1	59,1	64,0	69,0	73,9	80,0		
m	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	m
2,5	300,0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,5
3	155,0	155,0	152,5	144,0	(-)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
4	155,0	155,0	152,5	144,0	129,5	(-)	-	-	-	-	-	-	-	-	-	-	-	-	-	4
5	153,5	145,5	146,5	141,5	128,5	108,5	(-)	(-)	-	-	-	-	-	-	-	-	-	-	-	5
6	135,5	128,5	129,5	128,5	122,0	106,0	83,8	(-)	(-)	-	-	-	-	-	-	-	-	-	-	6
7	120,5	114,5	115,5	115,0	112,0	101,5	83,4	65,7	(-)	(-)	(-)	-	-	-	-	-	-	-	-	7
8	107,5	103,5	104,0	104,0	101,0	98,1	82,7	64,8	52,9	(-)	(-)	(-)	-	-	-	-	-	-	-	8
9	96,4	94,0	95,0	94,9	92,4	90,0	81,2	63,8	51,4	(-)	(-)	(-)	(-)	-	-	-	-	-	-	9
10	85,3	85,3	86,9	86,9	84,8	82,4	79,7	62,9	49,2	42,3	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	10
12	55,3	55,3	74,0	74,0	72,5	72,1	70,1	60,8	44,1	39,6	33,6	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	12
14	-	-	62,1	62,9	62,3	62,9	61,1	57,6	39,4	36,1	31,8	27,7	(-)	(-)	(-)	(-)	(-)	(-)	(-)	14
16	-	-	48,3	53,8	54,6	54,2	53,3	53,7	35,3	32,6	29,3	26,5	22,8	19,3	(-)	(-)	(-)	(-)	(-)	16
18	-	-	-	47,4	47,5	46,8	47,6	47,0	32,4	29,4	26,8	24,8	22,0	19,3	15,0	(-)	(-)	(-)	(-)	18
20	-	-	-	39,7	40,9	40,4	41,3	40,2	30,3	26,6	24,4	22,8	20,8	18,9	15,0	20				20
22	-	-	-	25,2	35,5	36,7	35,9	34,9	28,3	24,3	22,2	21,0	19,4	18,1	15,0	22				22
24	-	-	-	-	31,5	32,4	31,6	30,6	26,6	22,2	20,4	19,3	18,0	17,2	14,6	24				24
26	-	-	-	-	26,1	28,8	28,1	27,1	25,1	20,4	18,7	17,7	16,7	16,1	14,0	26				26
28	-	-	-	-	-	25,9	25,1	24,1	23,9	18,8	17,2	16,3	15,4	15,0	13,2	28				28
30	-	-	-	-	-	23,1	22,6	21,6	22,4	17,4	15,9	15,2	14,3	14,0	12,5	30				30
32	-	-	-	-	-	13,7	20,5	20,2	20,3	16,4	15,0	14,1	13,3	13,0	11,7	32				32
34	-	-	-	-	-	-	18,7	19,2	18,4	15,6	14,2	13,2	12,4	12,1	10,9	34				34
36	-	-	-	-	-	-	16,0	17,8	16,8	14,8	13,5	12,4	11,5	11,2	10,2	36				36
38	-	-	-	-	-	-	10,0	16,4	15,4	14,2	12,8	11,7	10,8	10,4	9,5	38				38
40	-	-	-	-	-	-	-	14,5	14,1	13,5	12,2	11,1	10,1	9,7	8,8	40				40
42	-	-	-	-	-	-	-	7,8	12,9	13,0	11,6	10,5	9,5	9,0	8,1	42				42
44	-	-	-	-	-	-	-	7,5	11,9	12,3	11,1	9,9	9,0	8,4	7,5	44				44
46	-	-	-	-	-	-	-	-	9,7	11,3	10,6	9,4	8,4	7,8	7,0	46				46
48	-	-	-	-	-	-	-	-	7,6	10,5	10,1	8,9	7,9	7,3	6,5	48				48
50	-	-	-	-	-	-	-	-	-	9,0	9,7	8,5	7,5	6,8	6,0	50				50
52	-	-	-	-	-	-	-	-	-	5,8	9,1	8,1	7,1	6,4	5,6	52				52
54	-	-	-	-	-	-	-	-	-	5,5	8,4	7,7	6,6	6,0	5,2	54				54
56	-	-	-	-	-	-	-	-	-	-	5,8	7,3	6,3	5,6	4,8	56				56
58	-	-	-	-	-	-	-	-	-	-	5,5	6,9	5,9	5,2	4,4	58				58
60	-	-	-	-	-	-	-	-	-	-	-	4,2	5,6	4,9	4,1	60				60
62	-	-	-	-	-	-	-	-	-	-	-	3,9	5,3	4,5	3,8	62				62
64	-	-	-	-	-	-	-	-	-	-	-	3,4	3,8	4,2	3,5	64				64
66	-	-	-	-	-	-	-	-	-	-	-	2,8	2,3	3,9	3,1	66				66
68	-	-	-	-	-	-	-	-	-	-	-	-	-	3,4	2,9	68				68
70	-	-	-	-	-	-	-	-	-	-	-	-	-	2,8	2,6	70				70
72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,4	72				72
74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,2	74				74

\* Capacity class · Tragfähigkeitsklasse · Classe de capacité · Classe di portata · Clase de capacidad · Classe de capacidade · Класс грузоподъемности

**300**  
Tonne

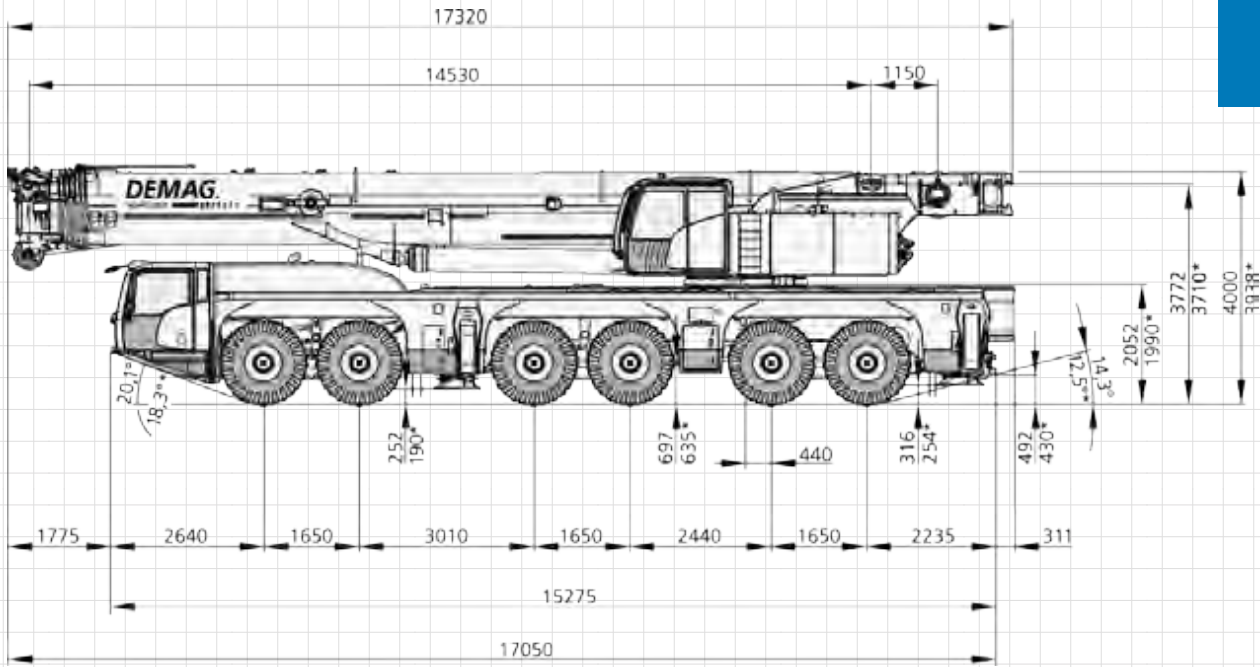
All Terrain  
Crane



# 300 Tonne Dimensions

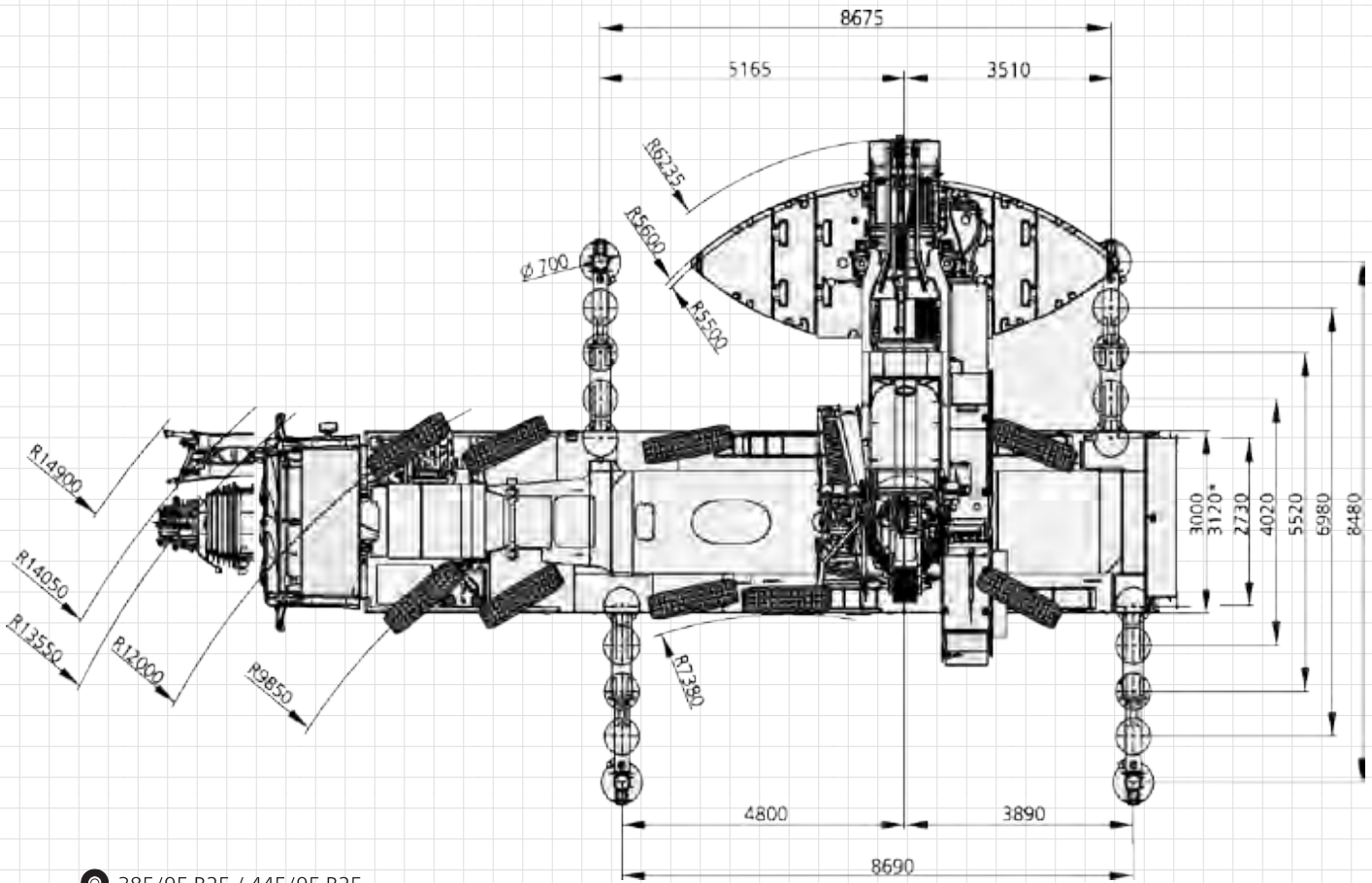
**300**  
Tonne

All Terrain  
Crane



⊙ 445/95 R25 / 525/80 R25

\* ⊙ 385/95 R25



⊙ 385/95 R25 / 445/95 R25

\* ⊙ 525/80 R25



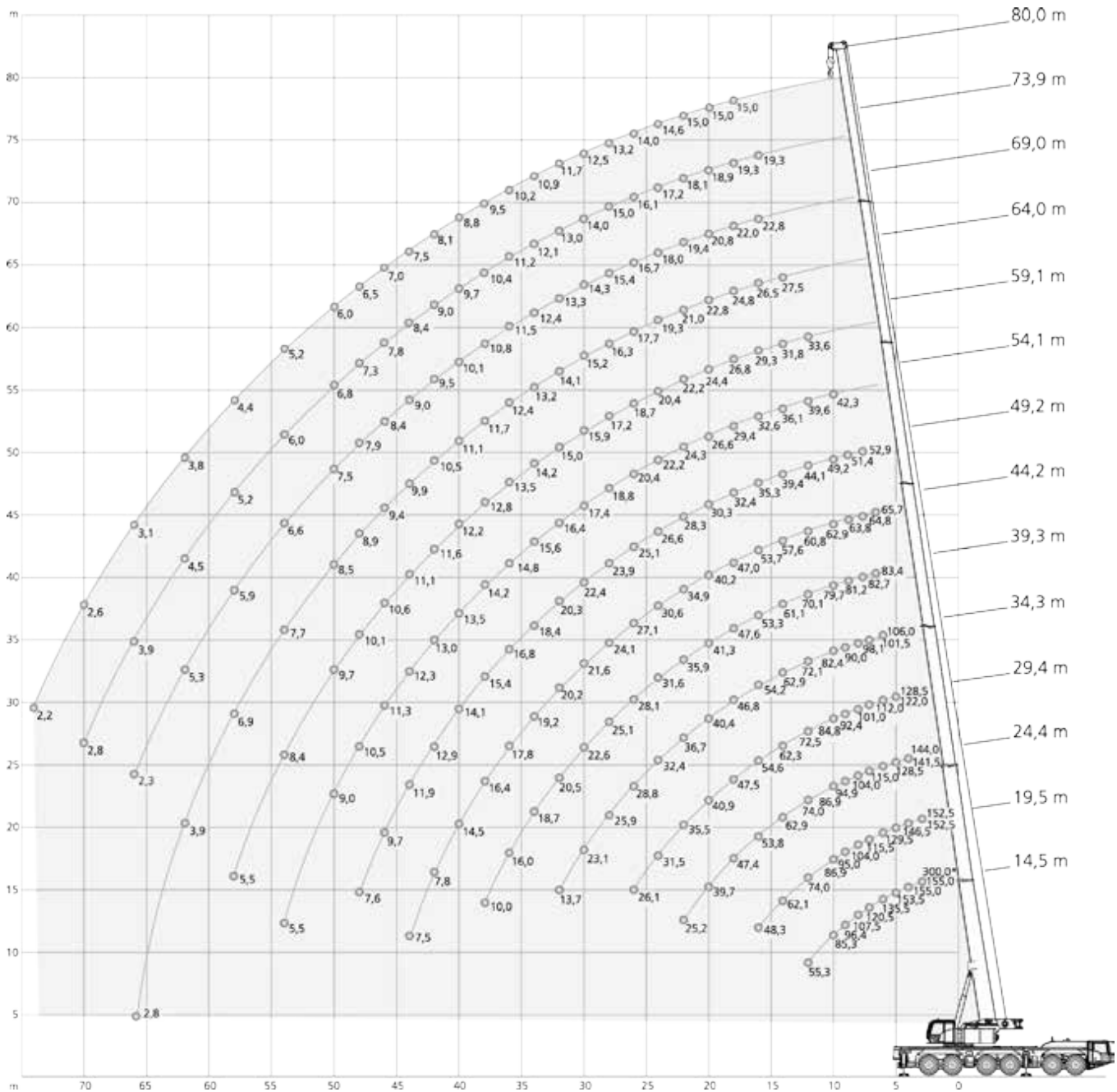
**300**  
Tonne

All Terrain  
Crane

300  
Tonne

All Terrain  
Crane

## 300 Tonne Working Range



**DEMAG**<sup>®</sup>  
TADANO GROUP

300  
Tonne

All Terrain  
Crane

**Safety first.  
McLeod first.**

# 300 Tonne + Fly Rating Chart

93,8 t		8,70 m x 8,50 m		360°		EN 13000							
14,5 m		44,2 m											
m	11,4 m			21,0 m			m	11,4 m			21,0 m		
	0°	20°	40°	0°	20°	40°		0°	20°	40°	0°	20°	40°
3	t	t	t	t	t	t	8	t	t	t	t	t	t
4	23,5	-	-	-	-	-	9	23,5	-	-	9,1	-	-
5	23,5	-	-	10,8	-	-	10	23,5	-	-	9,0	-	-
6	23,5	-	-	10,5	-	-	12	23,5	-	-	8,9	-	-
7	23,5	17,1	-	10,3	-	-	14	23,5	14,8	-	8,6	-	-
8	23,5	16,0	-	10,0	-	-	16	22,0	14,0	10,3	8,3	-	-
9	22,2	14,9	-	9,8	-	-	18	20,3	13,3	10,0	8,1	6,3	-
10	20,0	14,0	11,0	9,5	-	-	20	18,8	12,6	9,7	7,8	6,0	-
12	18,2	13,3	10,5	9,1	-	-	22	17,5	12,0	9,4	7,6	5,8	-
14	15,5	11,9	9,8	8,4	6,5	-	24	16,3	11,5	9,2	7,4	5,5	4,3
16	13,6	10,9	9,3	7,5	6,0	-	26	15,2	11,0	9,0	7,1	5,3	4,2
18	12,2	10,0	8,8	6,8	5,5	-	28	14,2	10,6	8,8	6,9	5,1	4,1
20	10,9	9,3	8,5	6,2	5,1	4,4	30	13,4	10,2	8,7	6,7	4,9	4,0
22	9,8	8,8	-	5,6	4,8	4,2	32	12,7	9,9	8,5	6,3	4,7	3,9
24	9,0	8,4	-	5,2	4,5	4,0	34	12,1	9,6	8,4	6,0	4,6	3,9
26	-	-	-	4,8	4,3	3,9	36	11,5	9,3	8,3	5,7	4,4	3,8
28	-	-	-	4,5	4,0	3,7	38	11,0	9,0	8,2	5,5	4,3	3,7
30	-	-	-	4,2	3,9	3,7	40	10,5	8,8	8,2	5,2	4,2	3,7
32	-	-	-	4,0	3,8	-	42	10,1	8,6	8,1	5,0	4,1	3,6
				3,8	-	-	44	9,7	8,4	6,5	4,8	4,0	3,6
							46	9,3	8,3	-	4,7	3,9	3,6
							48	9,0	8,2	-	4,5	3,8	3,6
							50	8,7	8,2	-	4,4	3,8	3,6
							52	8,5	5,1	-	4,2	3,7	3,6
							54	4,6	-	-	4,0	3,6	-
							56	-	-	-	3,8	3,6	-
							58	-	-	-	3,7	-	-
							60	-	-	-	-	-	-
							62	-	-	-	-	-	-

73,9 m							
11,4 m		21,0 m					
m	0°	20°	40°	0°	20°	40°	m
	18	t	t	t	t	t	
20	11,1	-	-	5,8	-	-	22
22	11,1	-	-	5,7	-	-	24
24	11,1	-	-	5,6	-	-	26
26	11,1	10,5	-	5,6	-	-	28
28	11,1	10,3	8,7	5,5	-	-	30
30	11,1	10,0	8,5	5,4	5,0	-	32
32	11,1	9,8	8,4	5,4	4,9	-	34
34	11,1	9,6	8,3	5,3	4,8	3,8	36
36	10,8	9,3	8,2	5,2	4,7	3,8	38
38	10,2	9,2	8,1	5,2	4,5	3,7	40
40	9,6	9,0	8,0	5,1	4,4	3,7	42
42	9,0	8,8	7,9	5,0	4,3	3,6	44
44	8,4	8,6	7,8	5,0	4,3	3,6	46
46	7,8	8,0	7,5	4,9	4,2	3,6	48
48	7,3	7,5	7,2	4,8	4,1	3,5	50
50	6,8	7,0	6,9	4,7	4,0	3,5	52
52	6,3	6,5	6,6	4,7	3,9	3,5	54
54	5,5	5,7	5,8	4,5	3,8	3,5	56
56	4,7	4,9	5,0	4,2	3,7	3,4	58
58	4,1	4,2	4,3	3,8	3,5	3,4	60
60	3,5	3,6	3,6	3,4	3,4	3,4	62
62	3,0	3,0	-	2,9	3,2	3,3	64
64	2,5	2,5	-	2,5	2,7	2,7	66
66	2,1	2,1	-	2,1	2,2	-	68
68	-	-	-	1,6	1,8	-	70
70	-	-	-	1,3	1,3	-	72

80,0 m							
11,4 m		21,0 m					
m	0°	20°	40°*	0°*	20°*	40°*	m
	20	t	t	t	t	t	
22	8,7	-	-	5,2	-	-	22
24	8,7	-	-	5,1	-	-	24
26	8,7	8,7	-	5,0	-	-	26
28	8,7	8,7	8,3	5,0	-	-	28
30	8,7	8,7	8,2	4,9	4,8	-	30
32	8,7	8,7	8,1	4,9	4,7	-	32
34	8,7	8,7	8,0	4,8	4,6	3,8	34
36	8,7	8,7	7,9	4,8	4,5	3,7	36
38	8,3	8,5	7,8	4,7	4,4	3,7	38
40	7,9	8,0	7,8	4,7	4,3	3,6	40
42	7,4	7,6	7,5	4,6	4,2	3,6	42
44	7,0	7,1	7,2	4,6	4,2	3,6	44
46	6,5	6,7	6,8	4,5	4,1	3,5	46
48	6,0	6,3	6,4	4,5	4,0	3,5	48
50	5,6	5,8	6,1	4,4	3,9	3,5	50
52	4,7	5,0	5,3	4,2	3,8	3,4	52
54	4,0	4,2	4,6	4,0	3,7	3,4	54
56	3,4	3,6	4,0	3,6	3,6	3,4	56
58	2,8	3,0	3,4	3,2	3,2	3,2	58
60	2,3	2,4	2,8	2,7	2,8	2,9	60
62	1,8	1,9	-	2,2	2,4	2,5	62
64	1,4	1,5	-	1,8	2,0	2,0	64
66	1,1	1,1	-	1,4	1,6	-	66
68	-	-	-	1,0	1,2	-	68

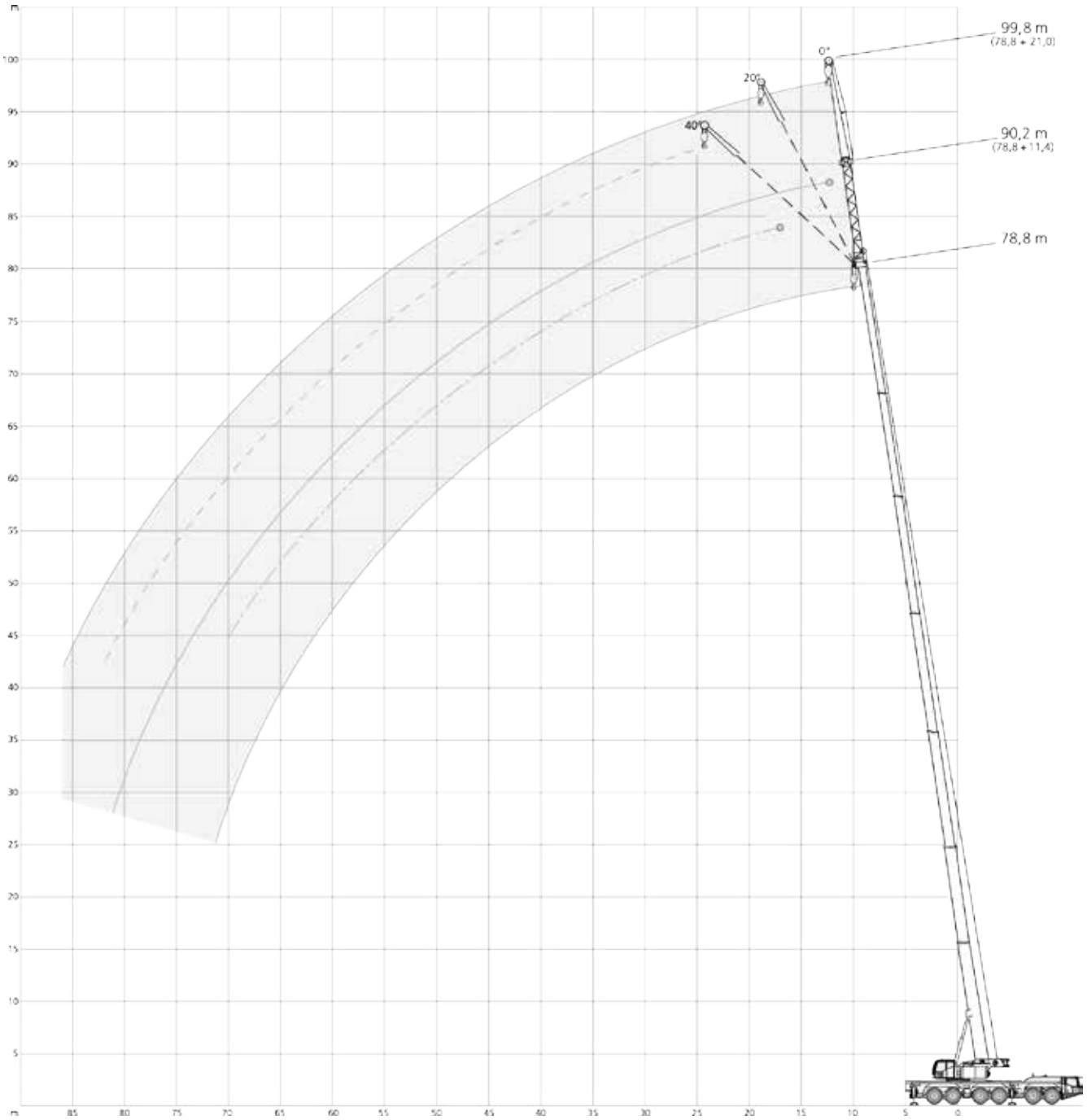
 \*78,8 m



**300**  
Tonne

All Terrain  
Crane

## 300 Tonne + Fly Working Range



**DEMAG**<sup>®</sup>  
TADANO GROUP

**300**  
Tonne

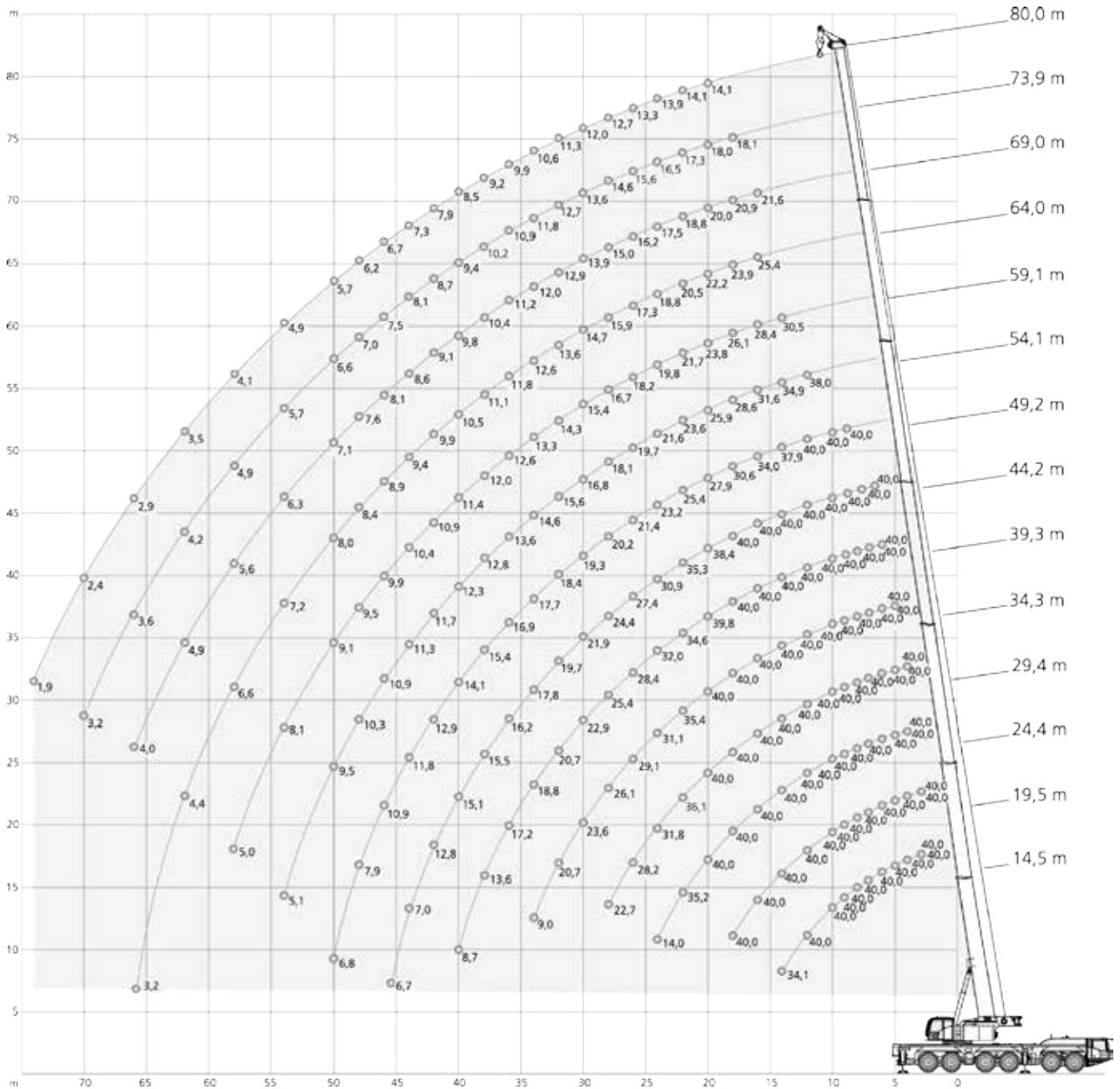
All Terrain  
Crane

**Safety first.  
McLeod first.**

**300**  
Tonne

All Terrain  
Crane

## 300 Tonne + MS Working Range



**DEMAG**  
TADANO GROUP

**Safety first.  
McLeod first.**

**300**  
Tonne

All Terrain  
Crane

**350**  
Tonne

All Terrain  
Crane



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**AC350 6.1**

**Lift Capacity:** 350.0 Tonne  
**Boom Length:** 64.0 m  
**Fly Length:** 20 - 74.0 m

**Main Hook Weight:** 1050 Kg  
**Aux Hook Weight:** 500 Kg  
**Line Pull:** 11.5 Tonne

## 350 Tonne Rating Chart

116,7 t		8,7 m x 8,5 m		360°		ISO															
m	(0°)	13,7	13,7	18,2	22,7	27,2	31,7	36,2	36,2*	40,7	40,7*	43,9	45,2*	48,4	49,7*	53,9	54,2*	58,4	58,7*	64,0	64,0*
t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t
3	350,0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	200,0	200,0	198,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	184,0	168,5	169,0	168,5	161,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	162,0	146,5	147,0	146,5	146,0	132,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	142,5	129,0	129,5	129,5	128,5	125,5	100,0	106,0	-	83,3	-	-	-	-	-	-	-	-	-	-	-
8	127,0	115,0	116,0	115,5	116,0	115,0	94,5	103,5	86,7	80,9	-	68,3	-	-	-	-	-	-	-	-	-
9	113,5	103,5	104,5	104,0	105,0	103,5	89,1	100,5	80,7	78,6	-	66,6	-	54,9	-	46,2	-	-	-	-	-
10	101,5	94,3	95,1	94,7	95,5	94,1	84,2	91,6	74,6	76,5	66,7	64,8	-	53,7	-	45,3	-	35,6	-	-	-
12	89,7	86,2	87,0	86,7	87,5	86,1	79,3	83,7	69,6	74,4	62,6	63,3	53,3	52,6	-	44,4	-	34,8	-	27,3	-
14	-	-	74,0	73,7	74,5	73,6	71,9	71,3	60,0	69,8	55,2	60,2	48,0	50,4	41,7	42,5	36,4	33,4	-	26,1	-
16	-	-	63,6	63,7	64,6	63,8	63,9	61,9	53,7	60,5	48,6	57,7	43,8	48,3	38,1	40,7	33,9	32,1	28,0	25,1	-
18	-	-	45,4	55,9	56,7	56,1	56,5	54,4	47,3	53,1	44,0	52,5	39,8	46,6	35,1	39,1	31,5	30,8	26,2	24,1	-
20	-	-	49,0	49,8	50,5	49,8	48,1	42,2	47,2	39,4	46,6	36,5	44,8	32,3	37,7	29,2	29,7	24,5	23,1	-	-
22	-	-	37,1	44,1	44,9	44,1	42,4	38,6	41,9	35,2	41,7	33,1	41,5	30,2	36,3	27,2	28,7	23,1	22,3	-	-
24	-	-	31,7	36,3	35,4	33,7	31,5	33,2	29,8	33,3	27,7	33,7	25,9	33,3	23,9	26,6	20,5	20,7	-	-	-
26	-	-	32,0	31,8	30,0	29,8	29,5	27,0	29,7	25,7	30,1	24,2	30,7	22,3	25,8	19,4	19,9	-	-	-	-
28	-	-	26,2	28,6	26,9	28,2	26,4	24,6	26,5	23,7	26,9	22,6	27,6	20,8	25,0	18,3	19,3	-	-	-	-
30	-	-	11,8	25,8	23,6	26,6	23,7	22,9	23,8	21,6	24,2	21,0	24,9	19,7	24,3	17,1	18,7	-	-	-	-
32	-	-	23,0	19,1	24,2	21,4	21,2	21,5	20,1	21,9	19,4	22,5	18,6	23,1	16,3	18,1	-	-	-	-	-
34	-	-	11,8	-	22,1	19,0	19,8	19,4	18,7	19,7	17,8	20,3	17,4	20,9	15,5	17,6	-	-	-	-	-
36	-	-	19,0	15,4	18,5	17,4	17,4	17,8	16,8	18,4	16,3	19,0	14,7	17,0	-	-	-	-	-	-	-
38	-	-	17,7	15,7	16,1	16,0	15,7	16,7	15,3	17,3	13,9	16,4	-	-	-	-	-	-	-	-	-
40	-	-	15,9	12,4	15,0	14,6	14,7	15,2	14,4	15,8	13,1	15,5	-	-	-	-	-	-	-	-	-
42	-	-	12,9	9,0	14,3	13,1	13,6	13,7	13,6	14,3	12,3	14,5	-	-	-	-	-	-	-	-	-
44	-	-	-	-	13,6	10,6	12,7	12,5	12,7	13,1	11,7	13,3	-	-	-	-	-	-	-	-	-
46	-	-	-	-	11,6	8,0	12,1	11,3	11,9	11,9	11,1	12,1	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* = with superlift. Currently offline.

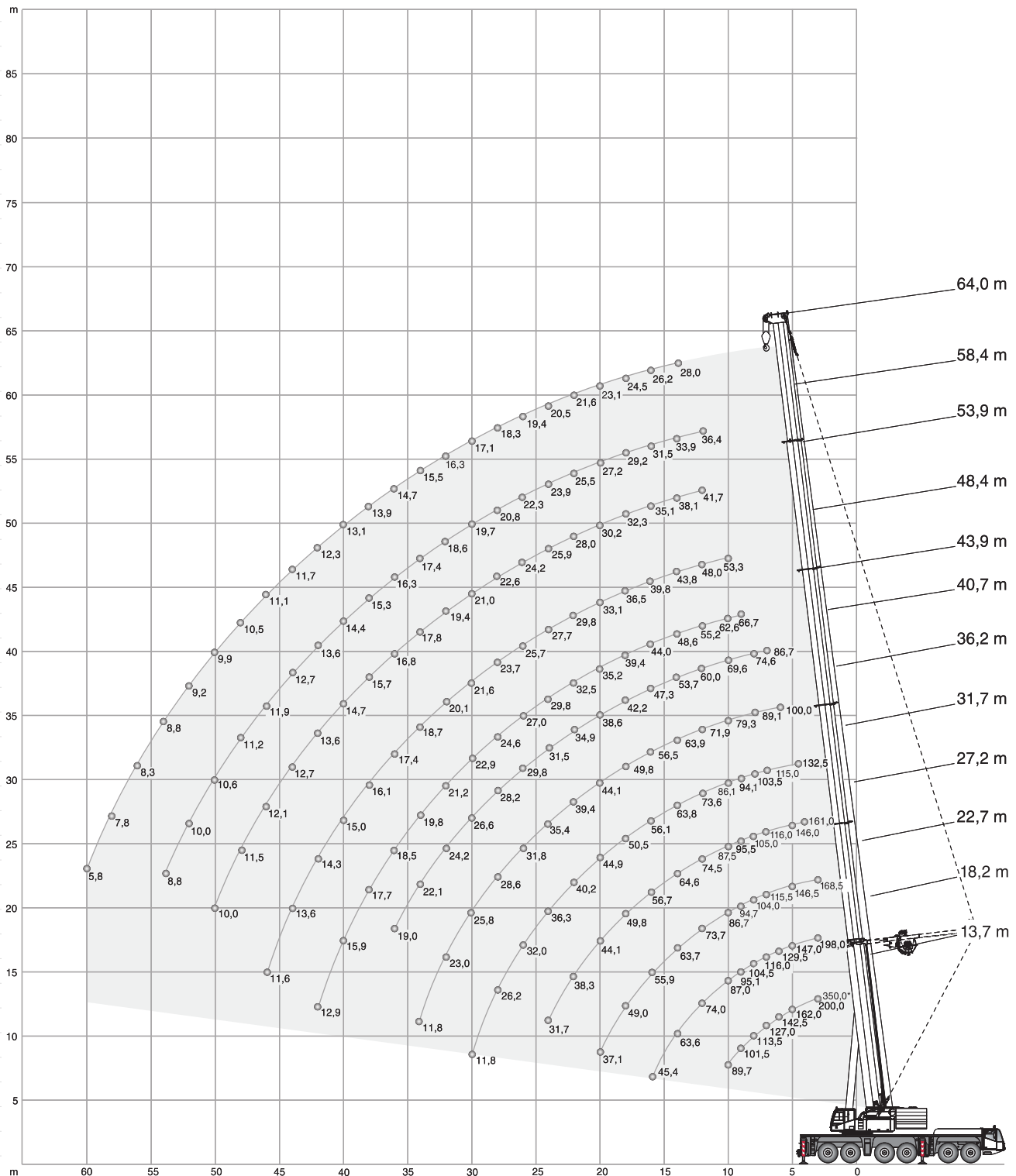
**350**  
Tonne

All Terrain  
Crane





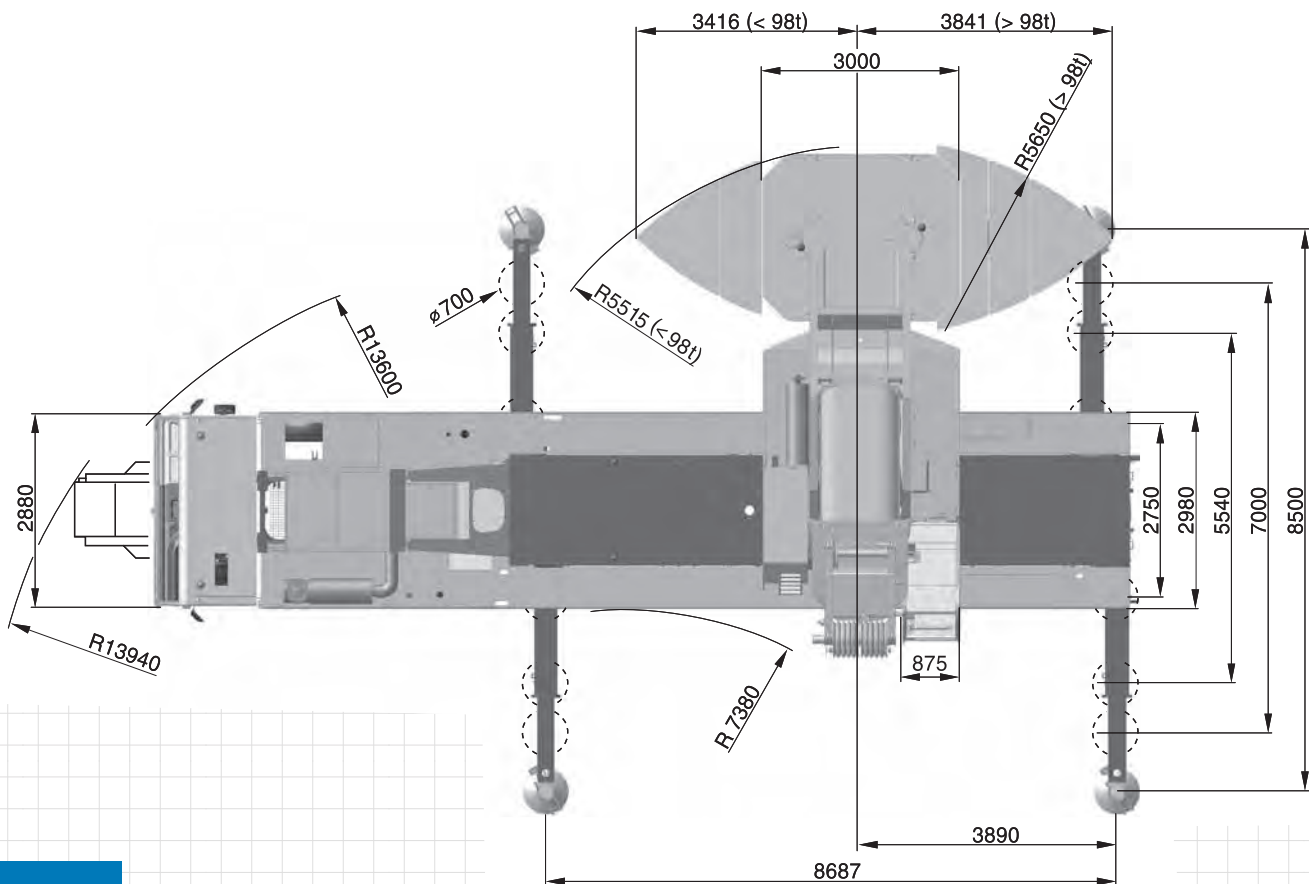
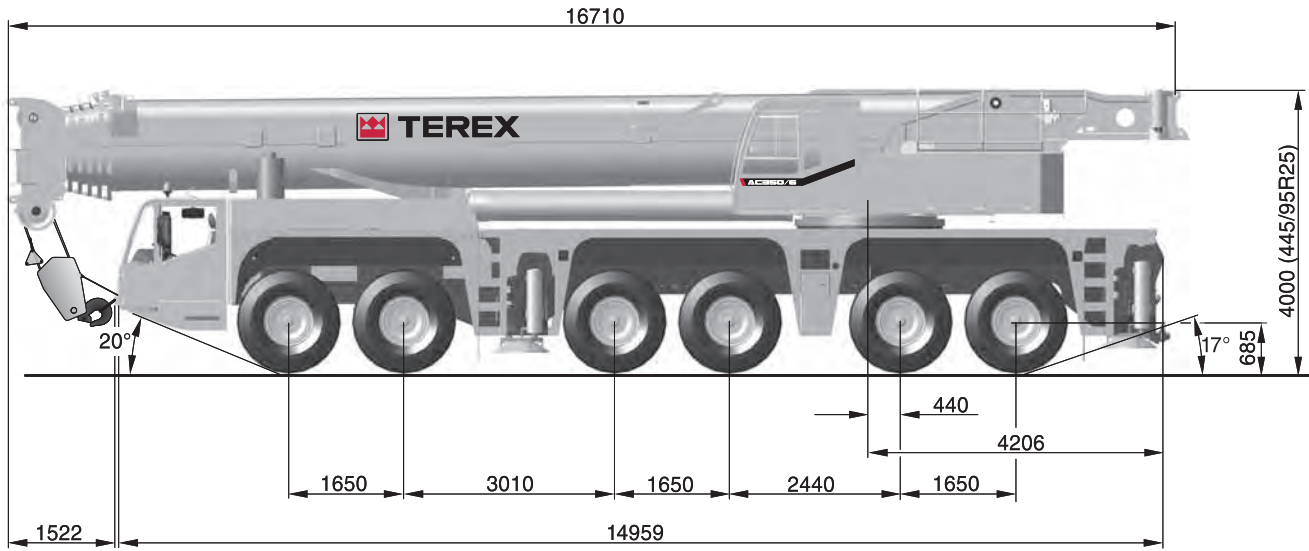
## 350 Tonne Working Range



**350**  
Tonne

All Terrain  
Crane

## 350 Tonne Dimensions



**350**  
Tonne

All Terrain  
Crane

**Safety first.  
McLeod first.**

# SELF-ERECTOR



**32 TT**  
30-57mt

Self-Erector  
Tower Crane



**MCLEOD**

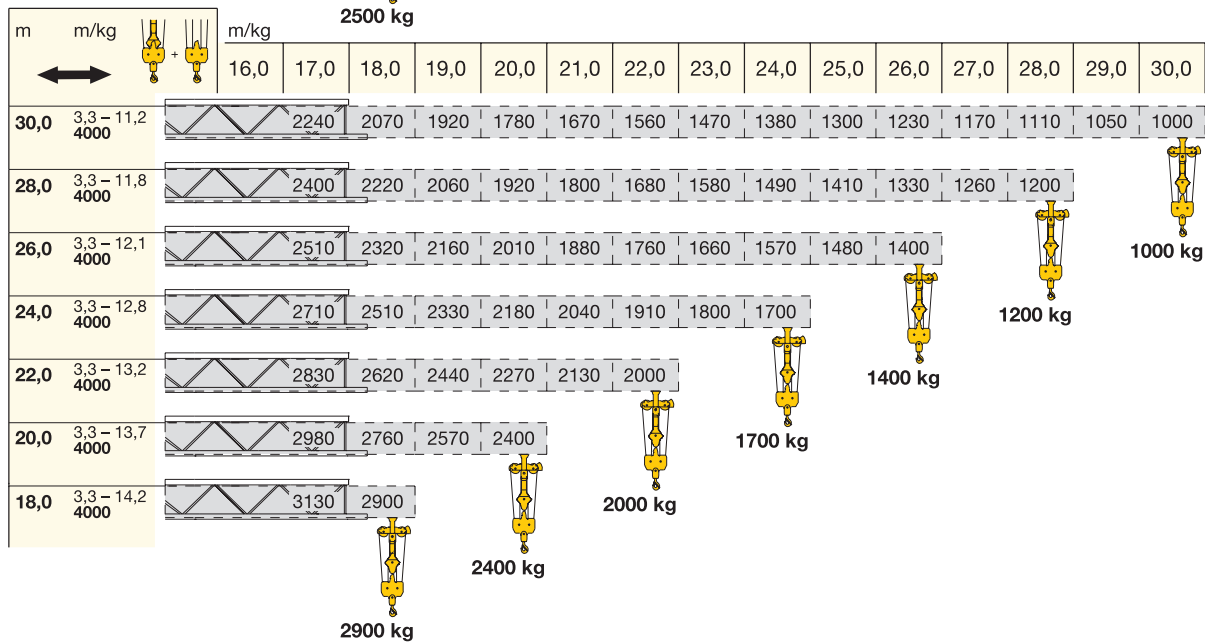
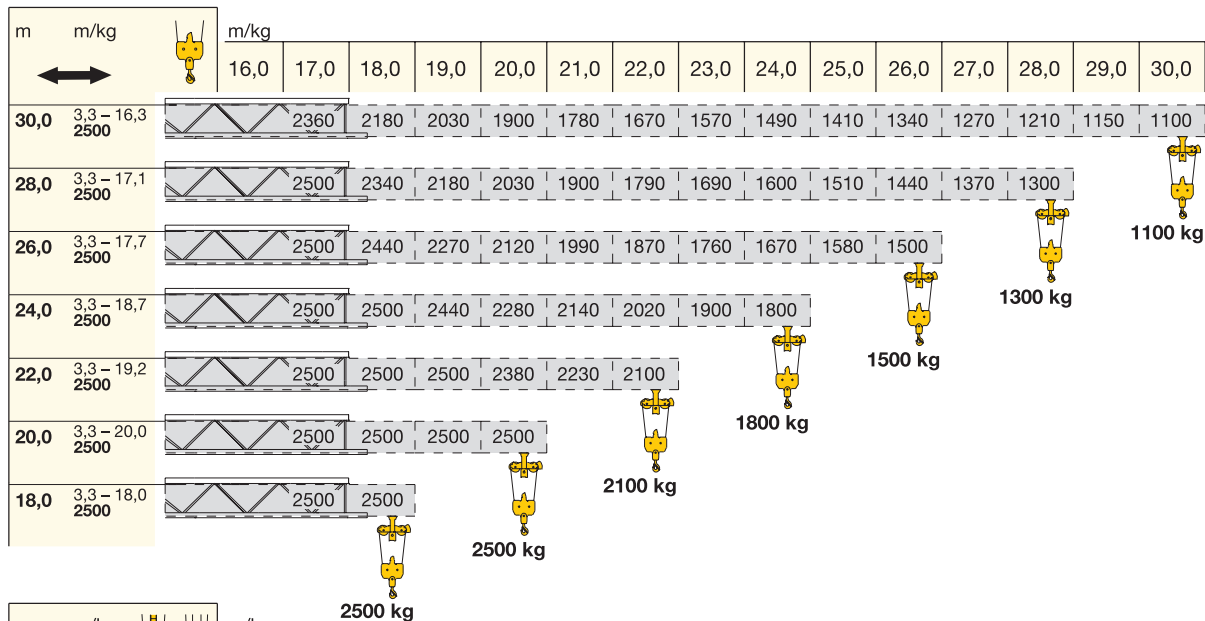
CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**Liebherr 32 TT**

**Lift Capacity:** 2.5 Tonne  
**Boom Radius :** 17 - 31.5 m

**Tower Height:** 19 - 28.5 m

## 32 TT Rating Chart

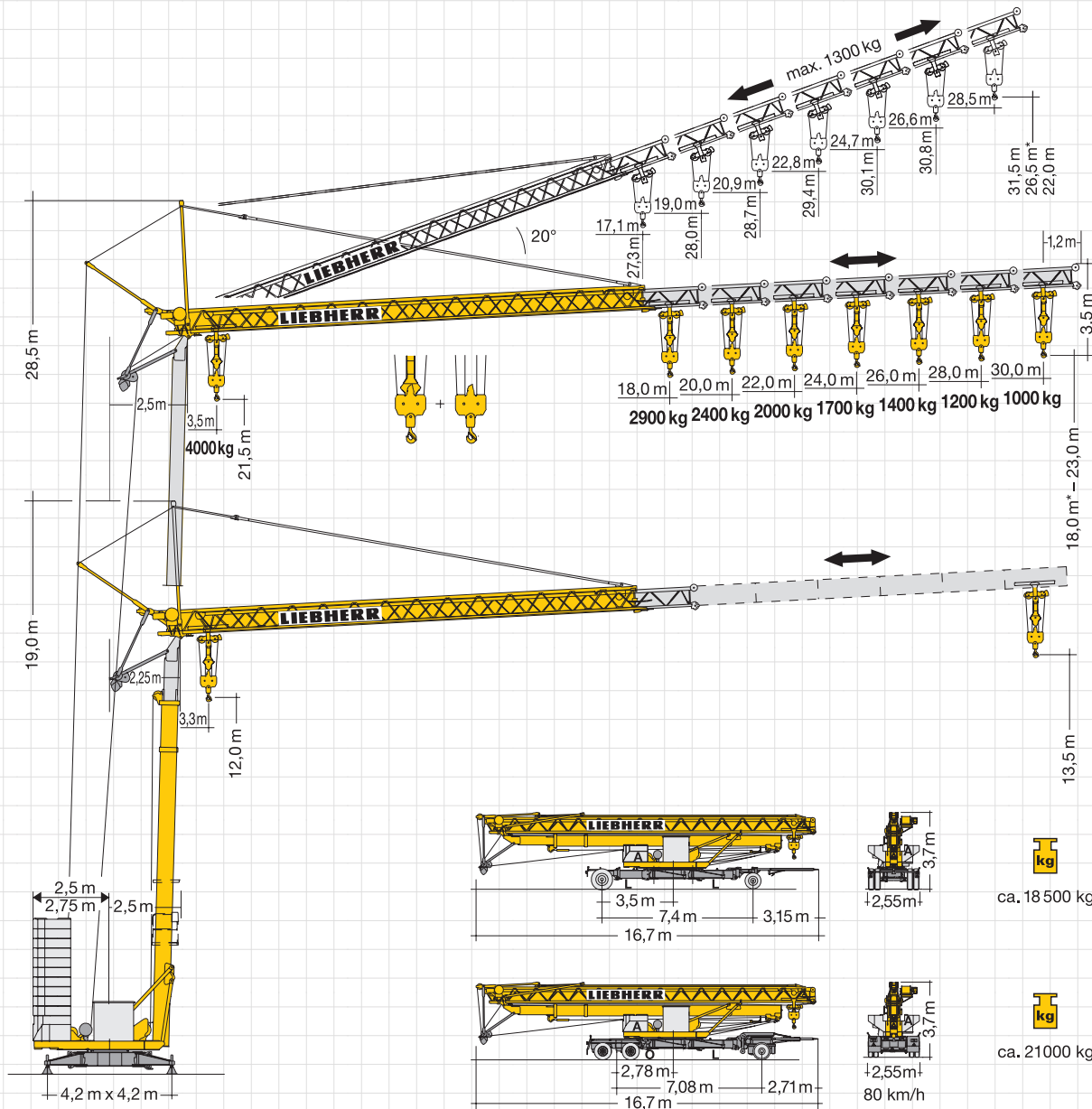


**32 TT**  
30-57mt

Self-Erector  
Tower Crane

**Safety first.  
McLeod first.**

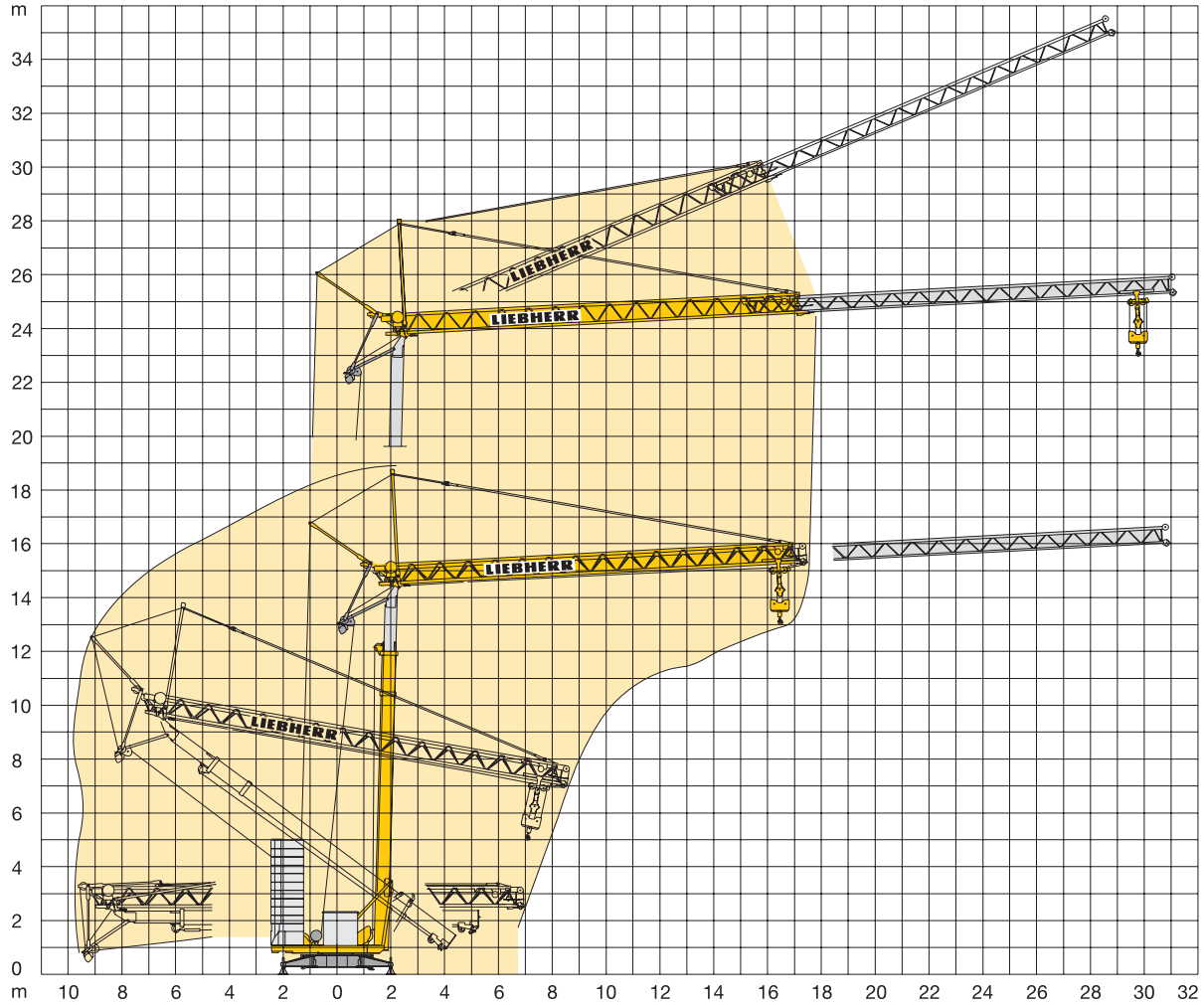
# 32 TT Range Chart



**32 TT**  
30-57mt

Self-Erector  
Tower Crane

## 32 TT Working Range



**32 TT**  
30-57mt

Self-Erector  
Tower Crane

**Safety first.  
McLeod first.**

# HIABS



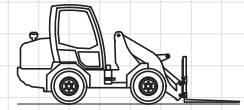
2.0  
Tonne

Off Road  
Forklift



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

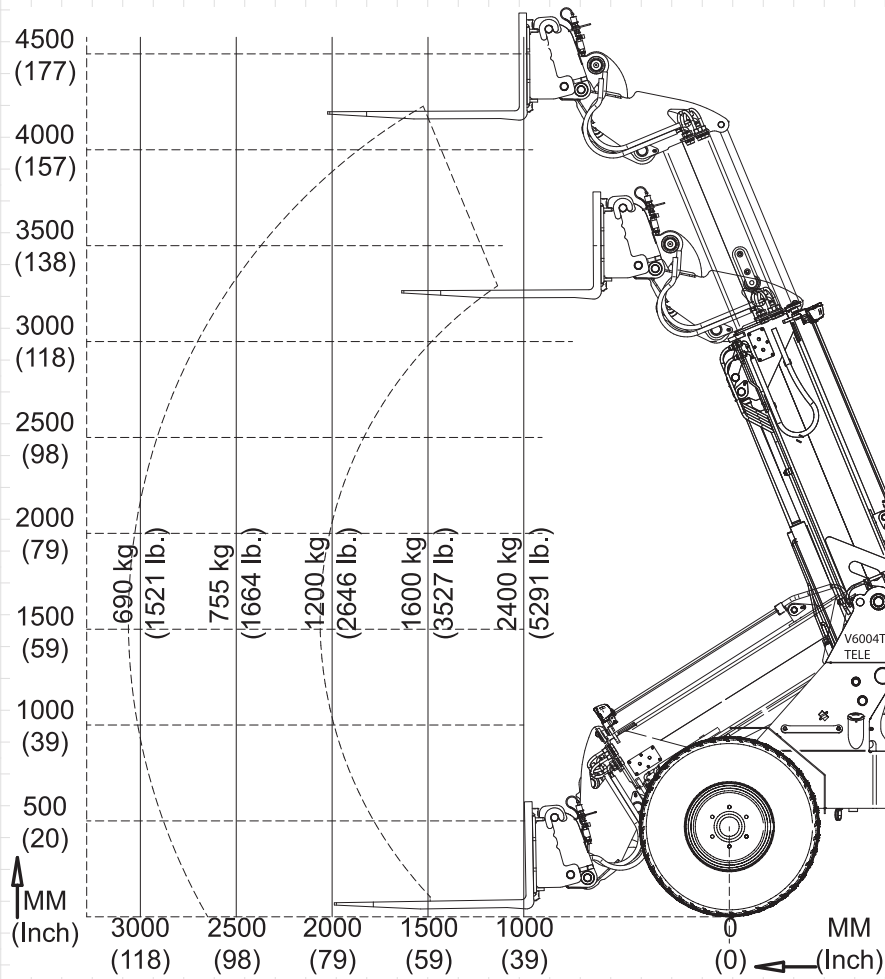


**Giant V6004T**

**Platform:** Giant Wheel Loader

**Maximum Lift:** 2400 Kg  
**Max Fork Width:** 1800 m  
**Max Fork Height:** 1800 m

**ForknFast Fork Load Chart**



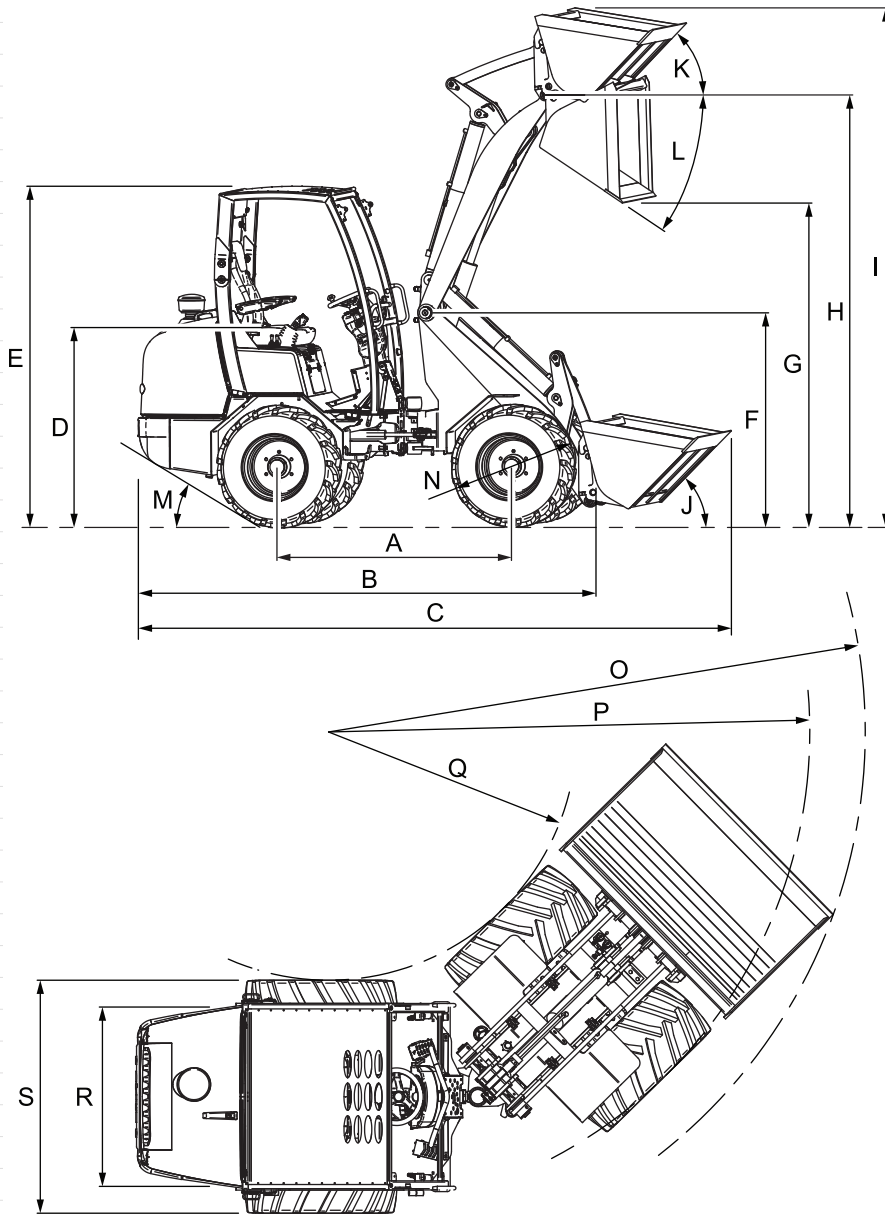
2.0  
Tonne

Off Road  
Forklift





## ForknFast Dimensions



- A. Wheel base: 1830mm
- B. Total length: 3705mm
- C. Length with bucket: 4525mm
- D. Seat height: 1270mm
- E. Height: 2300mm
- F. Frame height: 1270mm
- G. Dump height: 2450mm
- H. Height of pivot point: 3290mm
- I. Height with bucket: 3950mm
- J. Rollback angle, low: 41°
- K. Rollback angle, high: 57°
- L. Dump angle: 43°
- M. Angle of departure: 30°
- N. Wheel diameter: 940mm
- O. Turning radius with bucket: 3280mm
- P. Outside turning radius: 2860mm
- Q. Inside turning radius: 1480mm
- R. Track width: 1050mm
- S. Total width: 1400mm



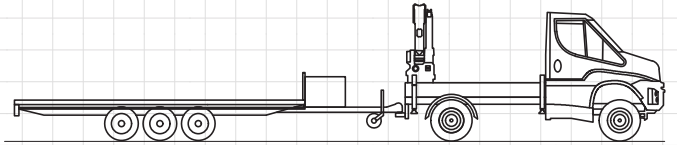
**4.7**  
Tonne/Metre

4x4 Iveco  
Daily



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

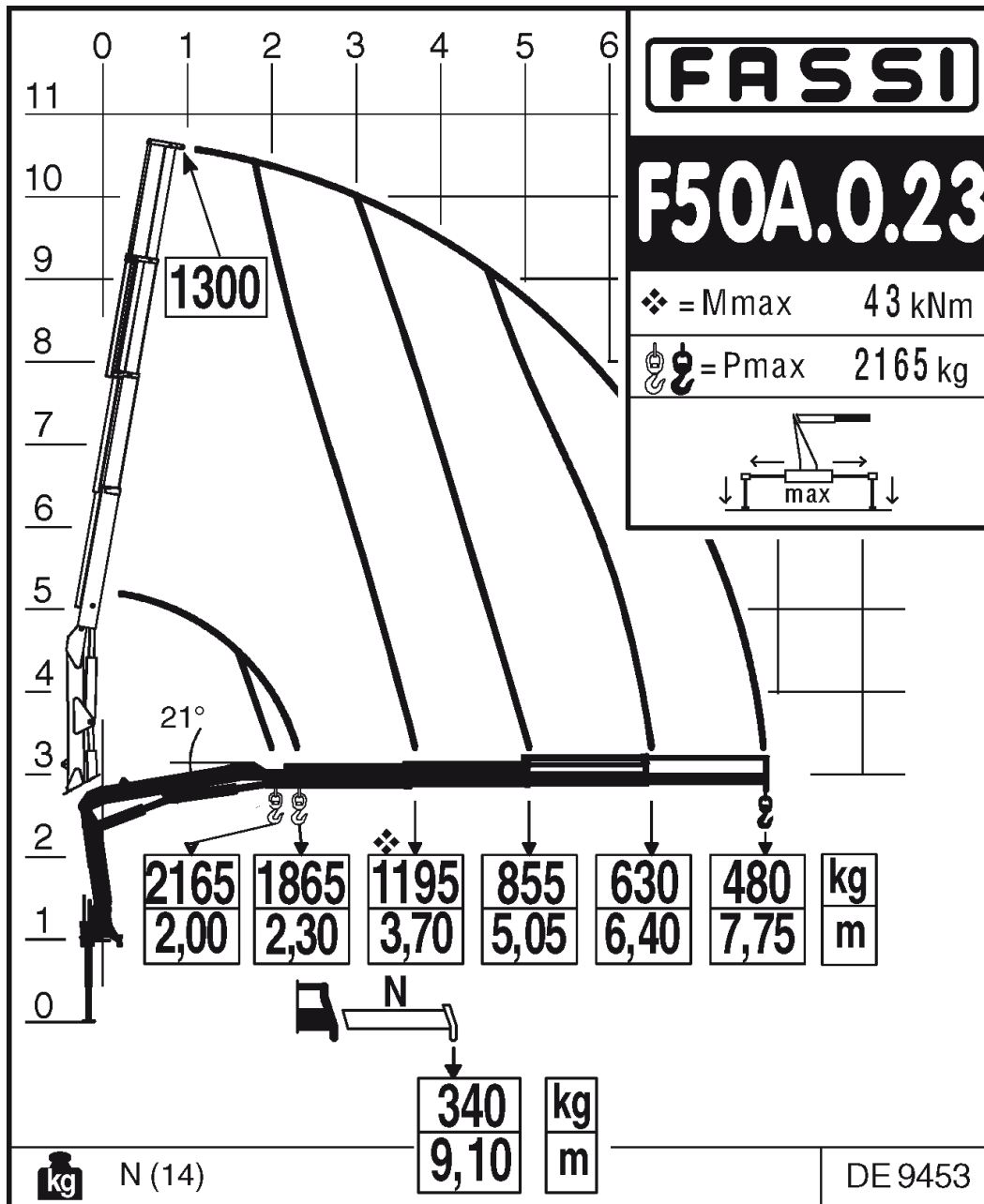


**Fassi F50A.0.23**

**Platform:** Iveco 4x4 Daily  
**Deck Length:** 2.1m  
**Trailer Deck Length:** 6.0m  
**Trailer Maximum Payload:** 2150 Kg  
**Trailer Maximum Payload:** 3.3m

**Maximum Lift:** 2160 Kg @ 2m  
**Maximum reach (hydraulic):** 465 Kg @ 7.7 m  
**Maximum reach (manual):** 365 Kg @ 9.05m  
**Maximum Payload:** 1000 Kg

**Fassi Crane Load Chart**

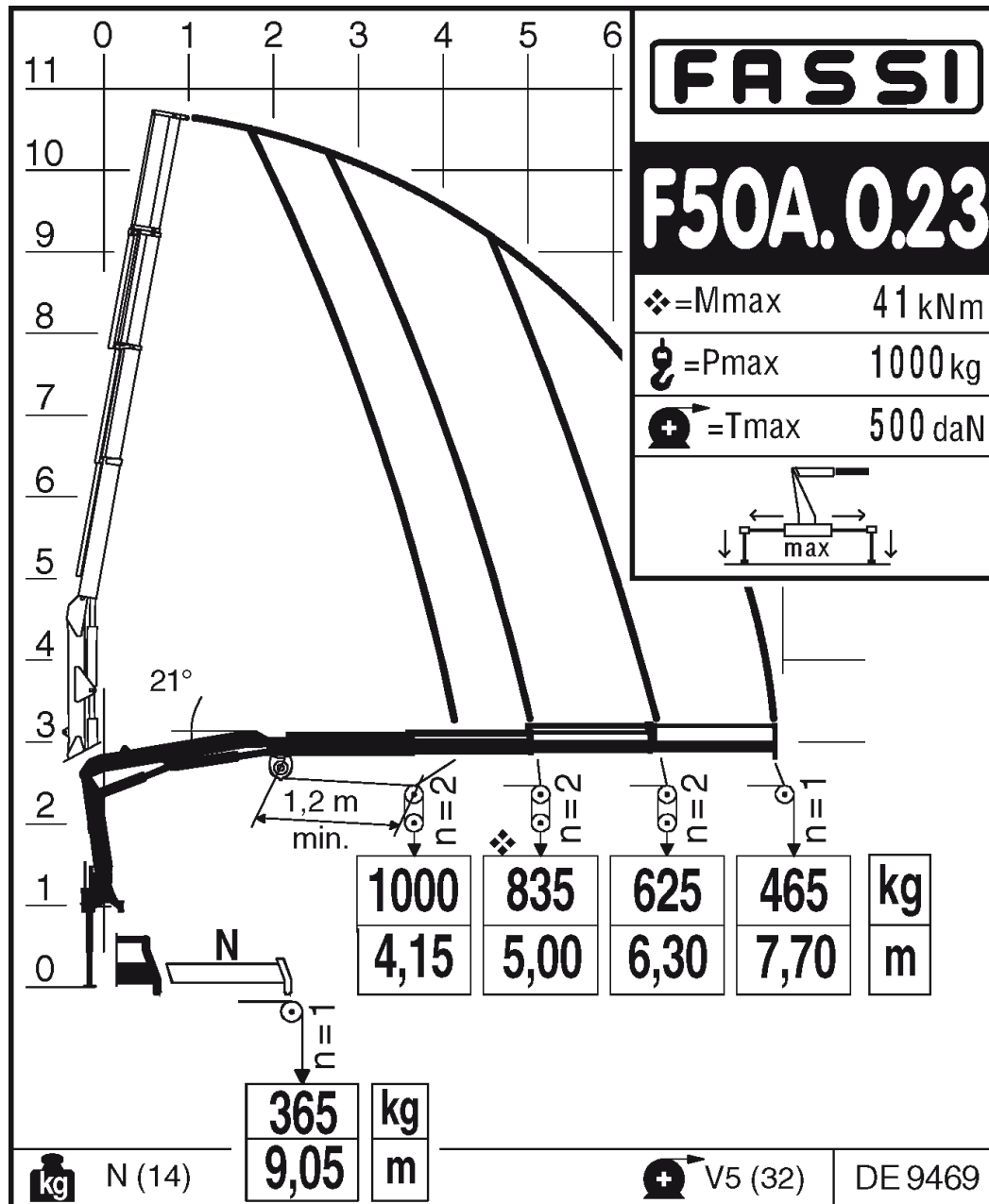


**4.7**  
Tonne/Metre

4x4 Iveco  
Daily



## Fassi Crane Load Chart (Winch)



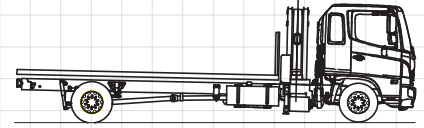
**7.0**  
Tonne/Metre

4.2 Hino  
500



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

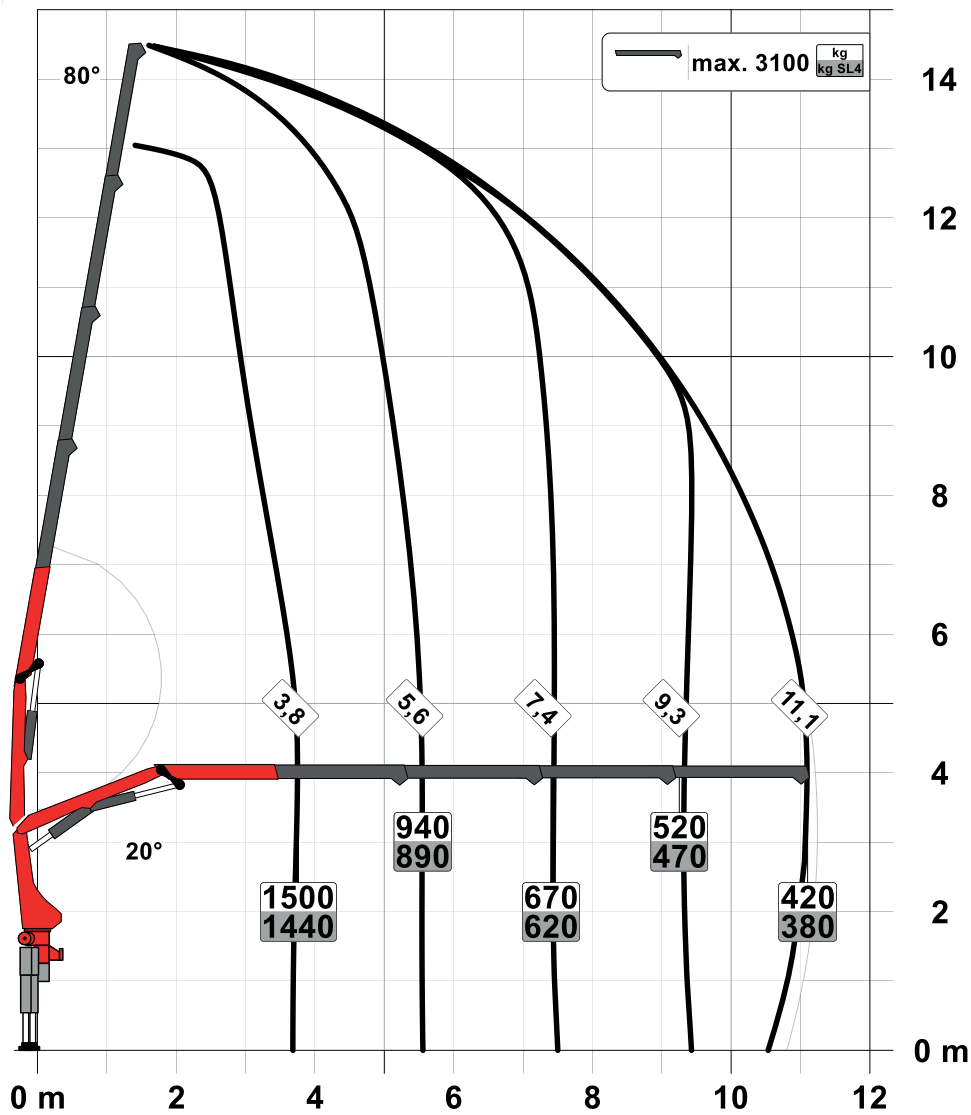


**Palfinger PK 7.001 SLD C**

**Platform:** Hino 500  
**Deck Length:** 5.3m  
**Maximum Payload:** 4500 Kg  
**Maximum load length:** 7.5m (2.2m unsupported)  
**Maximum load height:** 3.2m

**Maximum Lift:** 1500 Kg @ 4m  
**Maximum reach (hydraulic):** 800 Kg @ 7m  
420 Kg @ 11m

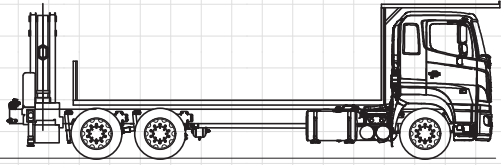
**Palfinger Crane Load Chart**



**7.0**  
Tonne/Metre

4.2 Hino  
500





# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

**23**  
Tonne/Metre

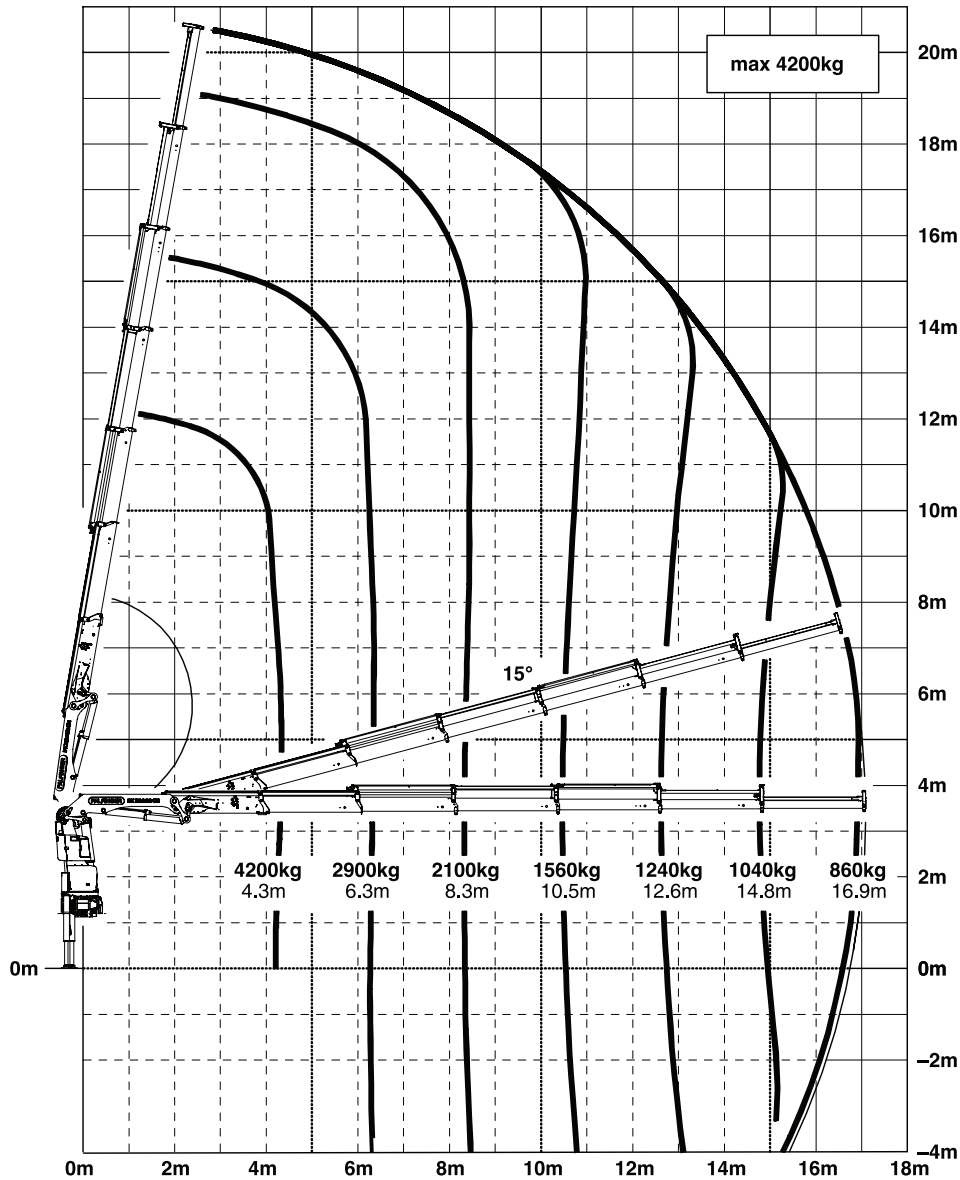
6x4 Hino  
500

## Palfinger PK 23.002 SH

**Platform:** Hino 500  
**Deck Length:** 6.5m  
**Maximum Payload:** 7900 Kg  
**Maximum load length:** 6.5m (14m Truss Racks)  
**Maximum load height:** 3.2m

**Maximum Lift:** 4200 Kg @ 4.2m  
**Maximum reach (hydraulic):** 830 Kg @ 17m

## Palfinger Crane Load Chart



**23**  
Tonne/Metre

6x4 Hino  
500

23

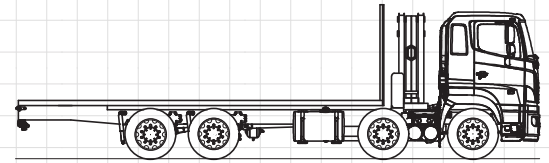
Tonne/Metre

8x4 Hino  
700



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

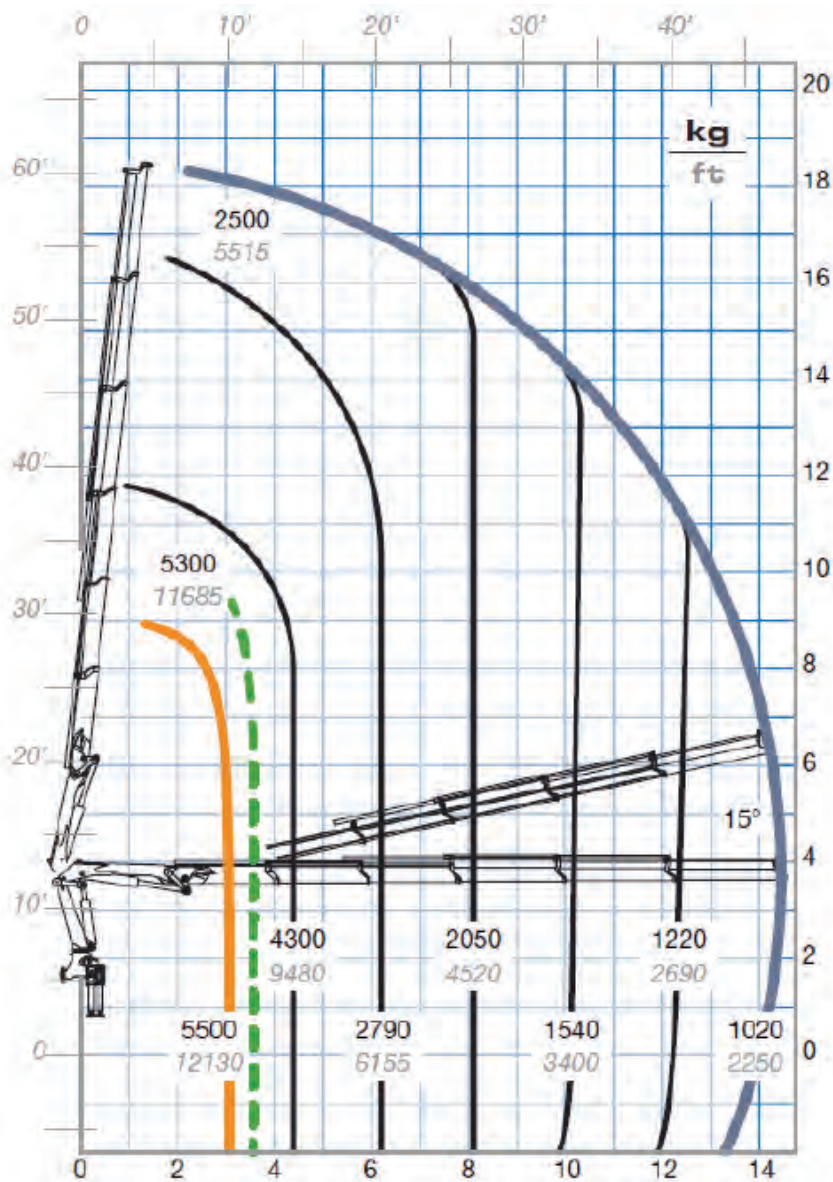


**PM 23525 SP**

**Platform:** Hino 700  
**Deck Length:** 7.3m  
**Maximum Payload:** 9000 Kg  
**Maximum load length:** 11.2m on deck  
**Maximum load height:** 3.0m

**Maximum Lift:** 4000 Kg @ 4.0m  
**Maximum reach (hydraulic):** 1000 Kg @ 14.4m  
560 Kg @ 21m

**PM Crane Load Chart**

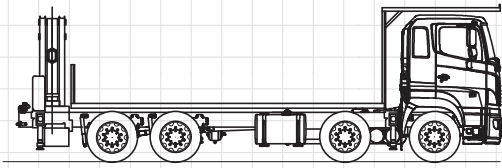


23

Tonne/Metre

8x4 Hino  
700





# MCLEOD

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

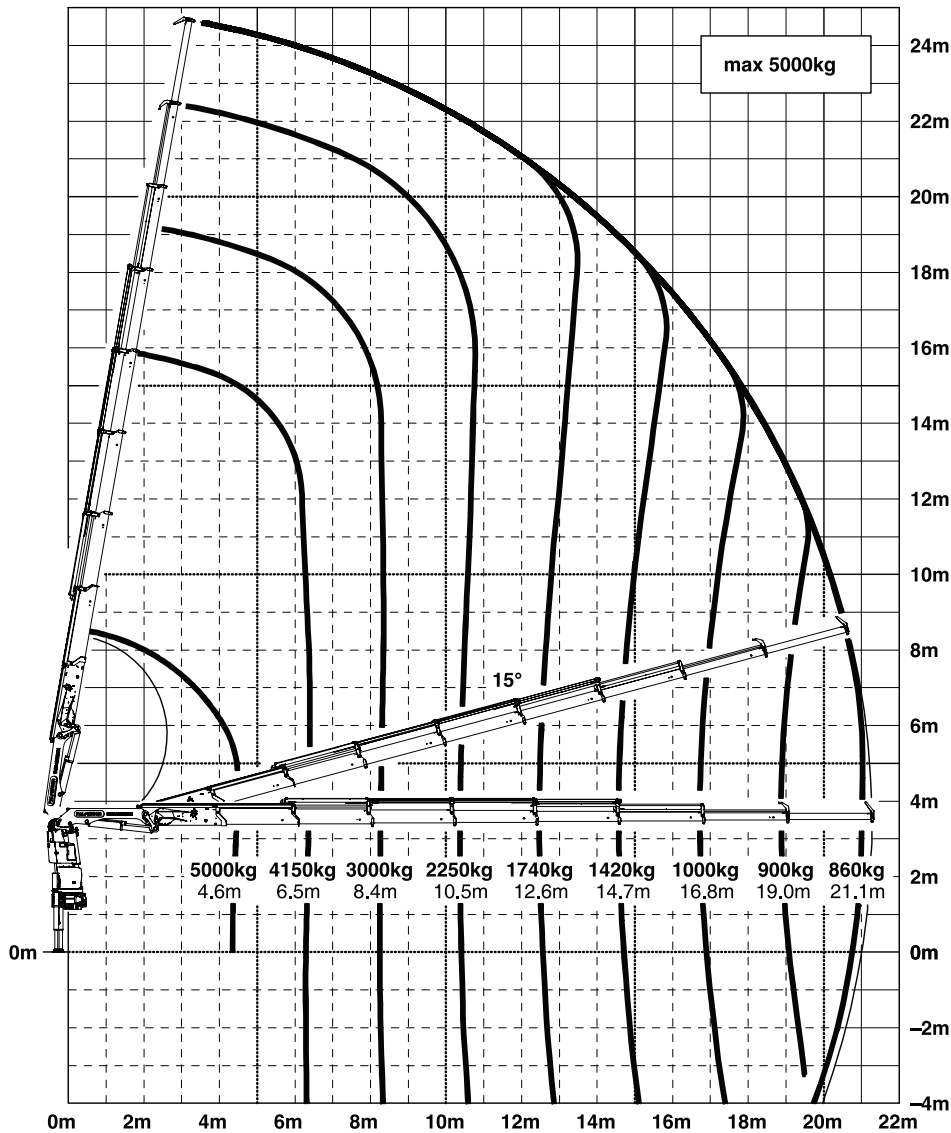
**34**  
Tonne/Metre

8x4 Hino  
700

## Palfinger PK34.002 SH G

<b>Platform:</b>	Hino 700	<b>Maximum Lift:</b>	5000 Kg @ 4.0m
<b>Deck Length:</b>	6.3m	<b>Maximum reach (hydraulic):</b>	1000 Kg @ 17m
<b>Maximum Payload:</b>	7500 Kg		860 Kg @ 21m
<b>Maximum load length:</b>	6.3m (14m Truss Racks)		
<b>Maximum load height:</b>	3.2m		

## Palfinger Crane Load Chart



**34**  
Tonne/Metre

8x4 Hino  
700

68

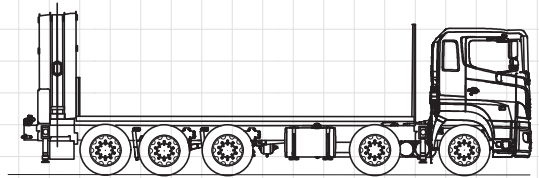
Tonne/Metre

10x4 Scania  
G540



**MCLEOD**

CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY

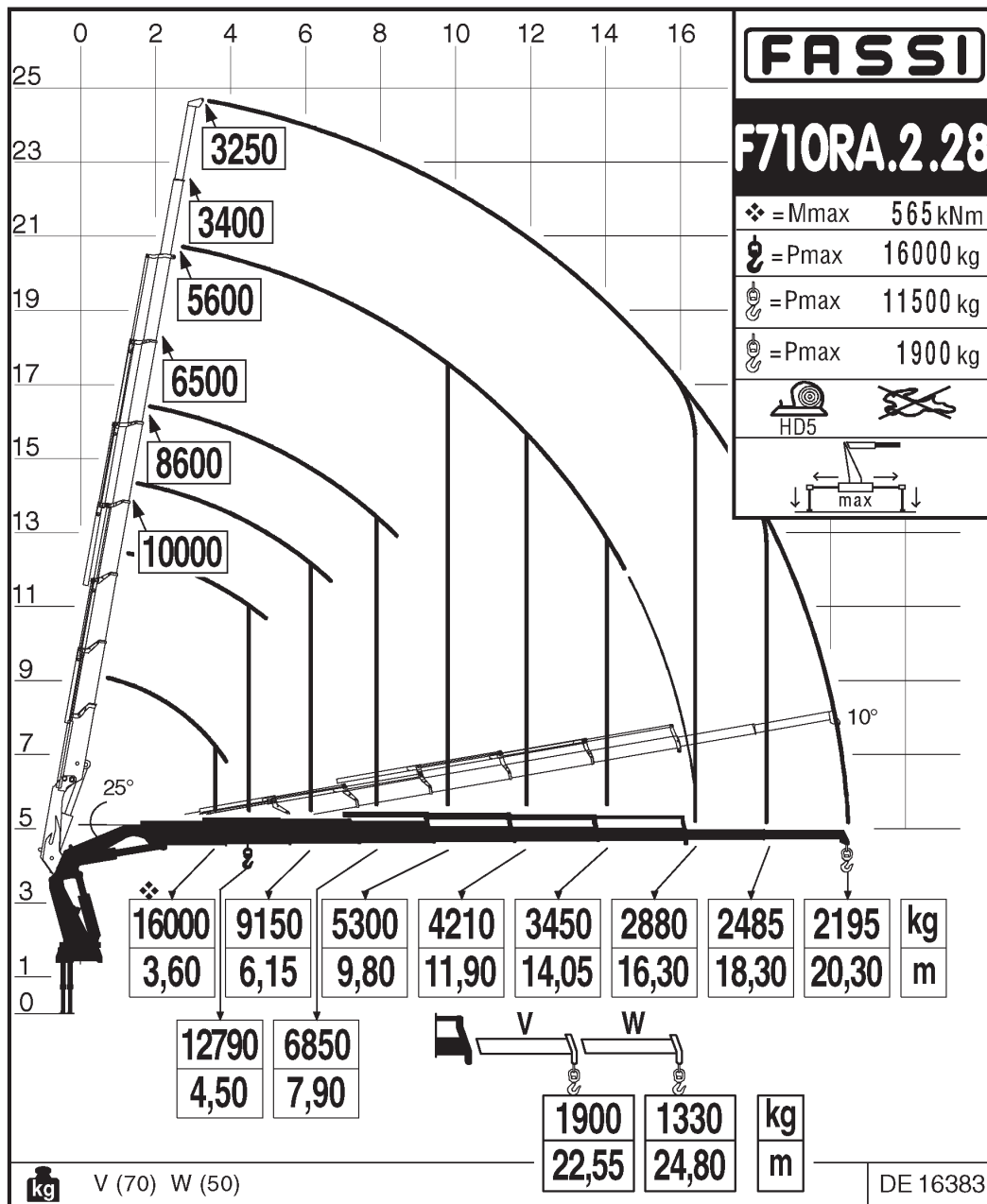


**F710RA 2.28**

**Platform:** Scania G540  
**Deck Length:** 6.265m  
**Maximum Payload:** 5300 Kg  
**Maximum load length:** 6.2m (11.3m Truss Rack)  
**Maximum load height:** 3.07m (Deck 1.23m)

**Maximum Lift:** 16000 Kg @ 3.6m  
**Maximum reach (Main):** 2195 Kg @ 20.3m  
**Maximum reach (Fly):** 1000 Kg @ 21.8m  
 365 Kg @ 30m

### Fassi Crane Load Chart



68

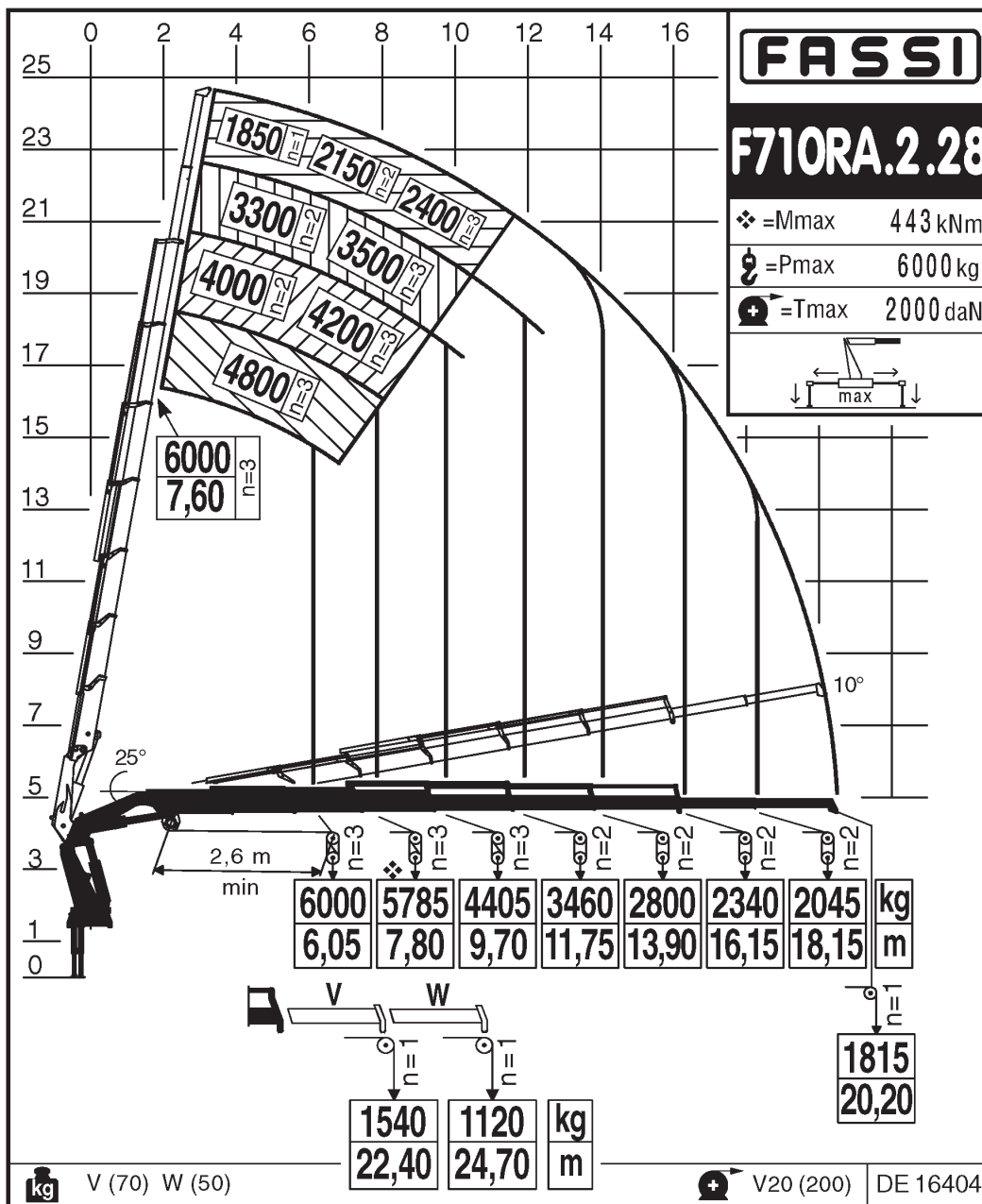
Tonne/Metre

10x4 Scania  
G540





## Main Boom + Winch Load Chart

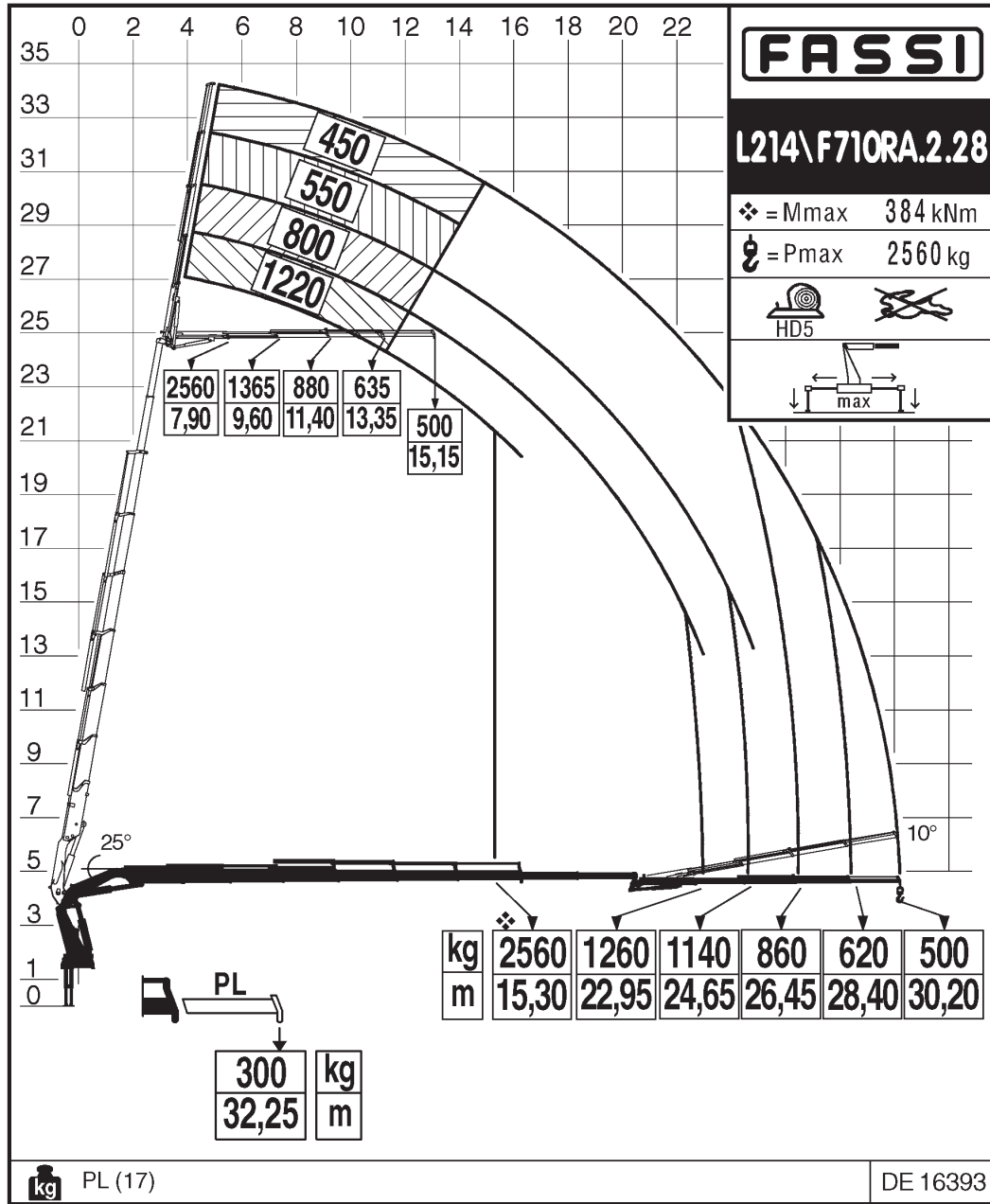


68

Tonne/Metre

10x4 Scania  
G540

# Main Boom + Fly Load Chart



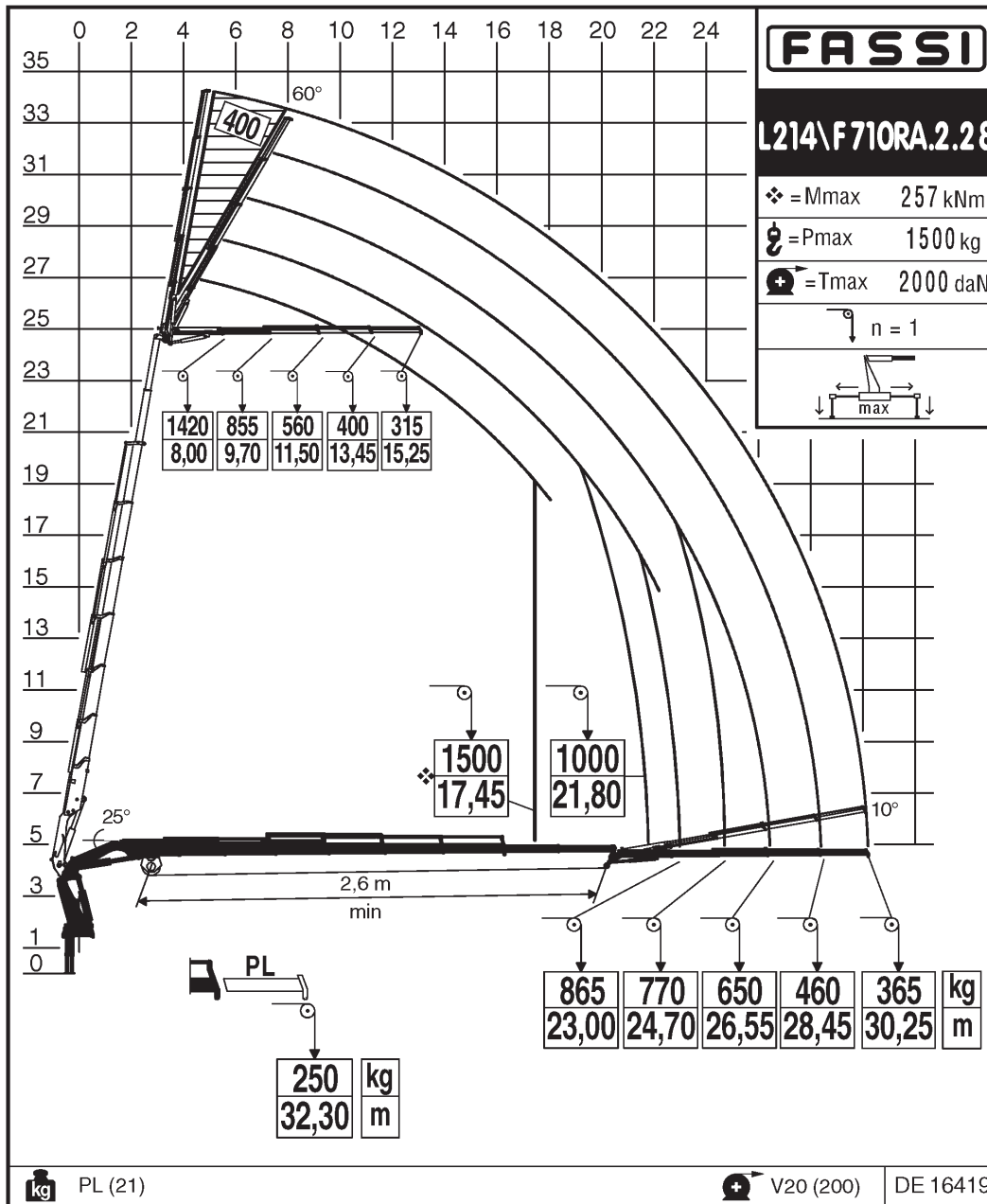
68

Tonne/Metre

10x4 Scania  
G540

**Safety first.  
McLeod first.**

## Main Boom + Fly + Winch Load Chart



65

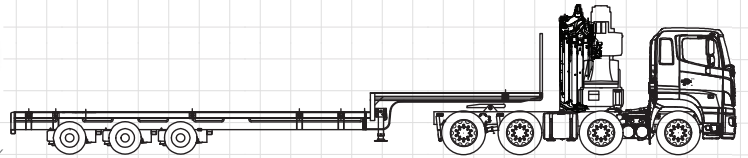
Tonne/Metre

8x4 Hino  
700 Tractor



# MCLEOD

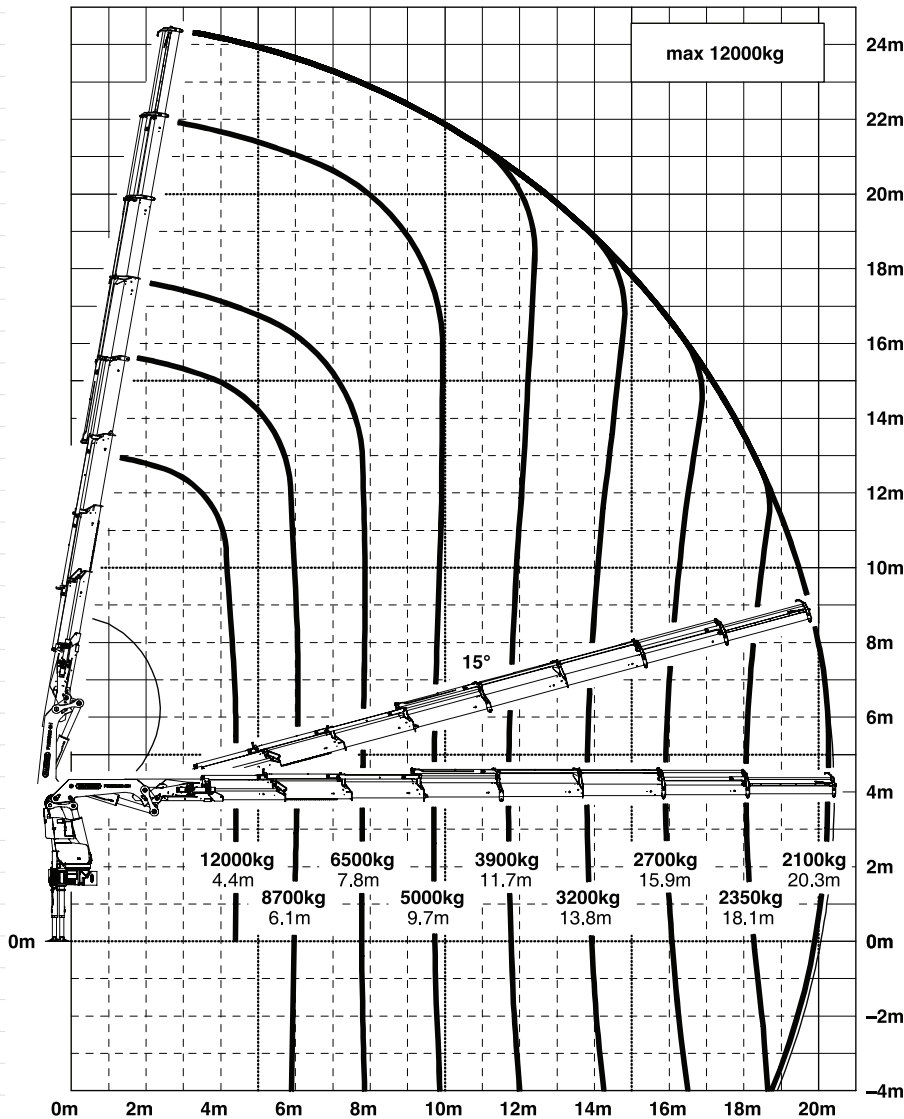
CRANES | HIABS | TRANSPORT  
DRILLING RIG LOGISTICS  
LIFT ENGINEERING & CONSULTANCY



## Palfinger PK65.002 SH G

<b>Platform:</b>	Hino 700	<b>Maximum Lift:</b>	12000 Kg @ 4.0m
<b>Deck Length:</b>	12.7m Lower deck 6.8m Top deck 6.8m	<b>Maximum reach (hydraulic):</b>	900 Kg @ 24.9m 860 Kg @ 21m
<b>Maximum Payload:</b>	14000 Kg	<b>Other:</b>	Crane Winch
<b>Maximum load length:</b>	16.2m (3.5m Unsupported)		
<b>Maximum load height:</b>	Lower deck 3.2m Top deck 2.7m		

## Palfinger Crane Load Chart



65

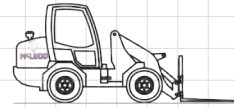
Tonne/Metre

8x4 Hino  
700 Tractor



**Fork 'N' Fast 4x4**

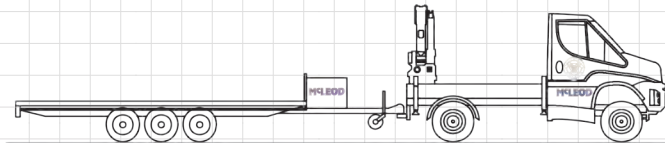
Maximum lifting weight 2000kg  
Maximum fork width 1.8m  
Maximum height 1.8m



**4 Wheeler 4x4 Hiab**

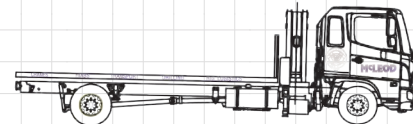
Maximum reach (hydraulic) 465kg @ 7.7m  
Maximum reach (manual) 365kg @ 9.05m  
Maximum lift 2160kg @ 2m  
Maximum payload 1000 kg  
Deck Length 2.1m

Trailer deck length 6.0m  
Trailer Maximum payload 2150kg  
Maximum load height 3.3m



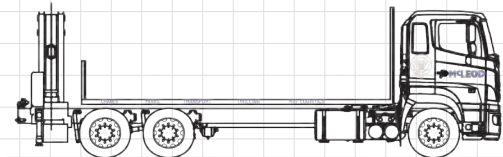
**4 Wheeler Tipper and Hiab**

Maximum reach 800kg @ 7m to 420kg @ 11m  
Maximum lift 1500kg @ 4m  
Maximum payload 4500kg  
Deck Length 5.3m  
Maximum load length 7.5m (2.2m unsupported)  
Maximum load height 3.2m



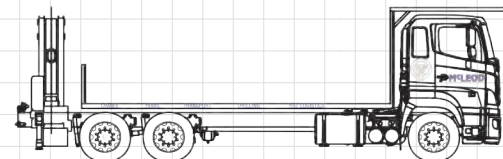
**6 Wheeler Hiab - Standard**

Maximum reach 810kg @ 12.4m to 15m  
Maximum lift 3000kg @ 4m  
Maximum payload 9000kg  
Deck Length 6m  
Maximum load length 6m on deck  
Maximum load height 3.2m



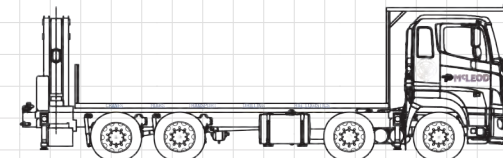
**6 Wheeler Hiab - Long Reach**

Maximum reach 830kg @ 17m  
Maximum lift 4200kg @ 4.2m  
Maximum payload 8000kg  
Deck Length 6.4m  
Maximum load length 6m on deck  
Maximum load height 3.2m



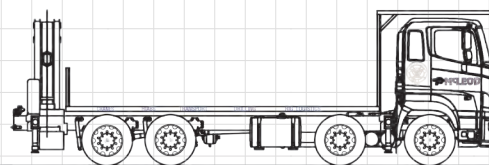
**8 Wheeler Hiab - Standard**

Maximum reach 1500kg @ 12m to 800kg @ 16m  
Maximum lift 3400kg @ 4m  
Maximum payload 9500kg  
Deck Length 6m  
Maximum load length 6m on deck  
Maximum load height 3m



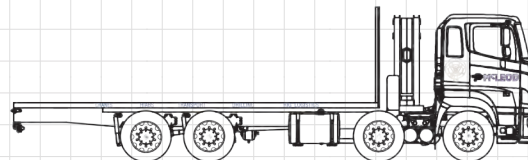
### 8 Wheeler Hiab - Long Reach

Maximum reach	1000kg @ 17m to 860kg @21m
Maximum lift	5000kg @ 4m
Maximum payload	8000kg
Deck Length	6m
Maximum load length	6m on deck
Maximum load height	3m
Truss rack	Yes



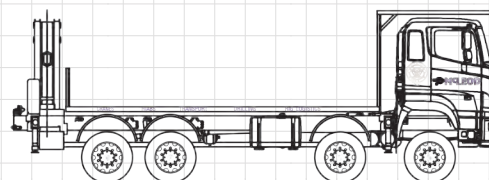
### 8 Wheeler Hiab - Front Mount

Maximum reach	1000kg @ 14.4m to 590kg @21m
Maximum lift	4000kg @ 4m
Maximum payload	9000kg
Deck Length	7.3m
Maximum load length	11.2m on deck
Maximum load height	3m



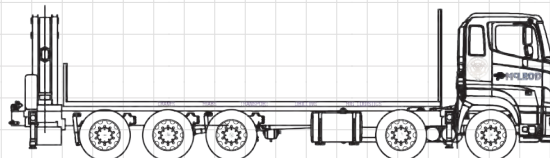
### 8 Wheeler 8x8 Hiab

Maximum reach (hydraulic)	1900kg @ 16.8m
Maximum reach (manual)	1500kg @ 18.8m
Maximum lift	8700kg @4.4m
Maximum payload	9000kg
Deck Length	6.4m on deck
Maximum load height	2.66m



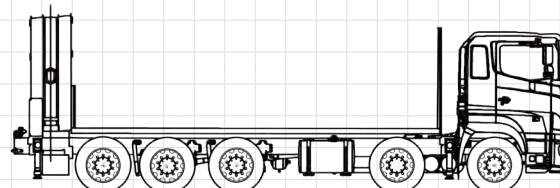
### 10 Wheeler Hiab - Standard

Maximum reach	3900kg @ 13.8m
Maximum lift	13700kg @ 4m
Maximum payload	10000kg
Deck Length	6.4m
Maximum load length	6.4m on deck
Maximum load height	3m



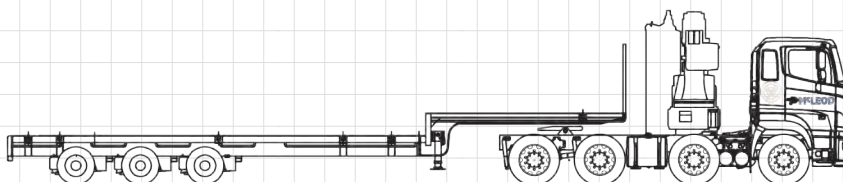
### 10 Wheeler Hiab - Heavy

Maximum reach (Fly)	365kg @ 30m
Maximum reach (Main)	2195kg @ 20.3m
Maximum lift	13700kg @ 4m
Maximum payload	5300kg
Deck Length	6.2m (11.3m Truss Rack)
Maximum load length	6.2m on deck
Maximum load height	3.07m



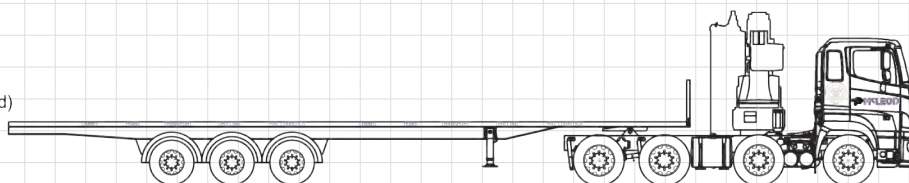
### Semi Combination Hiab - Long reach

Maximum reach	980kg @ 24.9m
Maximum lift	12000kg @ 4m
Maximum payload	14000kg
Deck Length	lower deck - 6.8m top deck - 3.4m total deck - 12.7m
Maximum load length	16.2m (3.5m unsupported)
Maximum load height	lower deck - 3.2m top deck - 2.7m



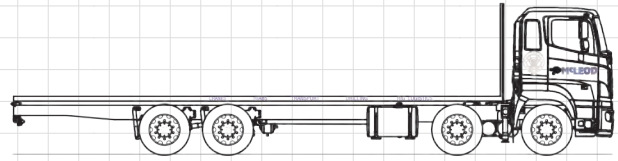
### Semi Combination Hiab

Maximum reach	2300kg @ 16m
Maximum lift	9000kg @ 4m
Maximum payload	15000kg
Deck Length	lower deck - 13.2m
Maximum load length	16.8m (3.6m unsupported)
Maximum load height	2.9m



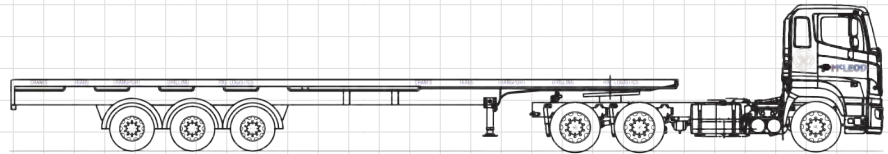
**8 Wheeler Flat Deck Rigid**

Maximum payload 13800kg  
Deck Length 9m  
Maximum load length 12.8m (3.8m unsupported)  
Maximum load height 3.2m



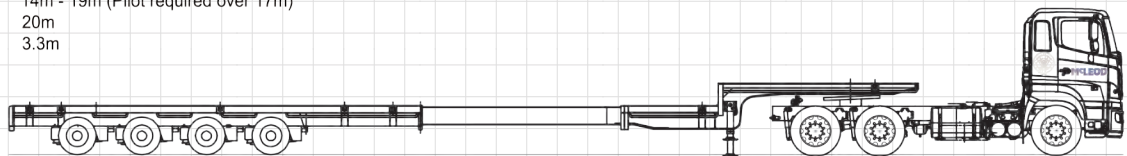
**Flat Deck Semi**

Maximum payload 22000 ~ 26000kg  
Deck Length 14m  
Maximum load length 18m (4m unsupported)  
Maximum load height 2.9m



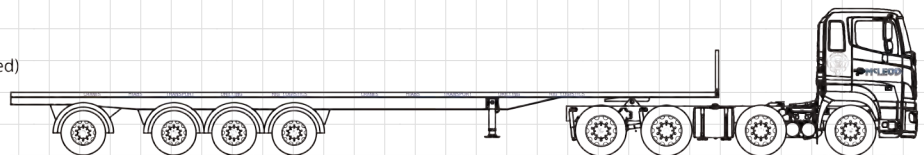
**Flat Deck Semi Trombone**

Maximum payload 22000kg  
Deck Length 14m - 19m (Pilot required over 17m)  
Maximum load length 20m  
Maximum load height 3.3m



**Flat Deck Quad Semi**

Maximum payload 35000kg  
Deck Length 15.2m  
Maximum load length 17.0m (2m unsupported)  
Maximum load height 2.9m



**3-axle Trailer**

payload 15000kg  
Deck Length 7.9m  
Maximum load height 3.0m



**4-axle Trailer**

payload 15000kg  
Deck Length 8.5m & 9m  
Maximum load height 3.0m



**5-axle Trailer**

payload 15000kg  
Deck Length 10.4m  
Maximum load height 3.0m



## Crane Capacity Guide

t/m	5m	6m	7m	8m	9m	10m	12m	14m	16m	18m	20m	22m	24m	26m	28m	30m
0.5t	10	10	10	10	10	10	10	10	10	21	21	20	20	35	50	50
1t	10	10	10	10	10	10	21	21	21	20	20	35	50	50	60	60
2t	10	10	10	21	21	21	21	20	20	35	50	50	60	60	65	80
3t	10	21	21	21	21	21	20	35	50	50	60	60	65	65	80	90
4t	21	21	21	21	20	20	35	50	50	60	60	65	80	90	90	90
5t	21	21	21	20	20	20	50	50	60	65	65	80	90	90	90	100
6t	21	21	21	20	20	35	50	50	60	65	80	90	90	90	100	130
7t	21	21	20	20	35	50	50	60	65	80	90	90	90	100	130	130
8t	21	20	20	35	50	50	50	65	80	90	90	90	100	130	130	150
9t	20	20	20	50	50	50	60	65	80	90	90	100	100	130	150	170
10t	20	20	35	50	50	50	60	80	90	90	100	100	130	130	170	170
11t	20	20	50	50	50	50	65	80	90	90	100	130	130	170	170	170
12t	20	25	50	50	50	60	80	90	90	100	100	130	150	170	170	300
13t	35	35	50	50	50	60	80	90	90	100	130	150	170	170	300	300
14t	35	50	50	50	60	65	80	90	100	100	130	150	170	170	300	300
15t	35	50	50	50	60	65	90	90	100	130	130	170	170	170	300	300
16t	50	50	50	60	60	80	90	90	100	130	150	170	170	300	300	300
17t	50	50	50	60	65	80	90	100	100	130	170	170	170	300	300	300
18t	50	50	50	60	65	80	90	100	130	150	170	170	300	300	300	300
19t	50	50	60	60	80	80	90	100	130	150	170	170	300	300	300	300
20t	50	50	60	65	80	90	100	100	130	150	170	300	300	300	300	300
21t	50	50	60	65	80	90	100	100	130	170	170	300	300	300	300	300
22t	50	50	60	80	80	90	100	130	150	170	170	300	300	300	300	350
23t	50	60	60	80	90	90	100	130	150	170	170	300	300	300	300	350
24t	50	60	65	80	90	90	100	130	150	170	300	300	300	300	350	350
25t	60	60	80	80	90	100	100	130	170	170	300	300	300	350	350	350

The crane capacity guide is for guidance purposes only, and must not be relied upon for calculating the size of the crane required.

Note:

1. This is a load radius chart, No account has been taken for the height of the lift.
2. This chart is based on using the minimum boom length for the lift.
3. Crane capacities will vary from manufacturer to manufacturer.
4. Lifting capacities will vary with crane type. (Truck Mounted or All Terrian.)





## Crane users have a vital role to play in crane safety and accident prevention.

As the user of a crane the Health and Safety at Work Act (HSWA) classifies you as a PCBU 'person conducting a business or undertaking' unless you are a volunteer association or home occupier who has engaged the crane owner to do work.

### PCBU

As a PCBU you have a responsibility for ensuring everyone who works in your Workplace have safety management systems in place and that they comply with them.

You should also work with your team to identify and address foreseeable hazards with your workforce, including planning and ensuring each job is completed the right way, the safe way, every single time, no matter what.

In hiring or leasing a crane you must address the foreseeable hazards this type of plant brings to your Workplace. You may choose to work with the Crane Owner / Supplier to achieve this.

### Home Owner / Volunteer Association

As the home owner or volunteer association (as long as you have no paid employees) responsibility for the work moves to the Crane Owner / Supplier.

The more information you can provide the Crane Owner / Supplier about your job and where the crane will be working will help the Crane Owner / Supplier avoid foreseeable hazards at your site.

---

**You are responsible for working with Crane Owners to plan the work, ensuring your team remain safe at all times while getting the job done.**

---

### Hiring a Crane

If you are hiring a crane your initial responsibility is to provide the Crane Owner / Supplier with sufficient basic information to enable the correct choice of crane and associated equipment to be made and to determine whether expert supervision is required.

In hiring the crane you must work with the Crane Owner / Supplier to provide a clear understanding of the job to be done, Workplace conditions, restrictions and hazards. Where there is any doubt about conditions at the Workplace it is recommended that you request an inspection by a competent and experienced supervisor.

In hiring a crane you must provide clear access to the Workplace and an adequately prepared location for the crane.

---

**Most accidents can be avoided by careful job planning. It is vital that crane users and those in charge at the Workplace alert the crane operator and crew members of all potential hazards or unusual operating conditions.**

---

### Leasing a Crane

If you are leasing a crane you need to work with the Crane Owner / Supplier to identify areas of responsibility.

The Pressure Equipment, Cranes and Passenger Ropeway Regulations (PECPR) identifies responsibilities of the Controller.

Your lease agreement may assign some of these responsibilities to you. You may also be required to provide access to the crane for servicing and annual inspections.

**THE LAST WORD:** Remember the Crane Operator has the final say with any lift. In the event the Crane Operator feels the lift is unsafe he can stop the lift without question.

Read more on [SafeCrane.nz](http://SafeCrane.nz)

# CRANE / DOGMAN RESPONSIBILITIES

## ABOVE THE HOOK

### Crane Operator

The crane operator is responsible for the safe operation of the plant.

This includes ensuring; the load remains within a safe working radius, the crane remains clear of power lines, the slew area remains clear, the load remains clear of other people, the correct crane hook is in use and reeved correctly, the crane remains safe and is in the correct configuration for the lift.

The New Zealand Certificate in Crane Operation is the right qualification for this role.

## BELOW THE HOOK

### Dogman / Rigger

The dogman / rigger is responsible for the safe rigging of the load and directing of the lifting and placing operations by the crane.

This includes ensuring; the load is rigged safely, that slings, chains or wires are in date, and remain within the working load limit throughout the lift, that all clutches are connected correctly, that lifting points are suitable and that the load is moved in a safe manner.

The New Zealand Dogman Certificate is the ideal qualification for this role but a dogman may start with NZQA 3789 - Sling regular loads and communicate during crane operations.

**Anyone can stop a lifting operation.**

If at anytime your not happy with a lift. STOP the operation. Safety must have priority!

**Safety first.  
McLeod first.**

McLEOD

## MCLEOD TERMS & CONDITIONS OF TRADE

### 1. DEFINITIONS

- 1.1 "McLeod" shall mean McLeod Cranes Ltd, McLeod Hiabs Ltd, or McLeod Transport Ltd as the context requires, or any agents or employees thereof.
- 1.2 "Customer" shall mean the customer, any person acting on behalf of and with the authority of the customer, or any person purchasing equipment and services from McLeod.
- 1.3 "Equipment" means all equipment and materials provided by McLeod to the Customer, including without limitation all Cranes (with or without operators), hiab, forklift, telehandler, transport, transporters, hoists and vehicles.
- 1.4 "Services" shall mean all services or advice provided by McLeod to the Customer including without limitation all charges for labour and work, hire charges, insurance charges, or any fee or charge associated with the supply of equipment and services by McLeod to the Customer.
- 1.5 "Price" shall mean the cost of the equipment and services as agreed between McLeod and the Customer subject to clause 5 of this contract.
- 1.6 "Site" shall mean the place or area where the Equipment and Services is to be used for the purposes of this contract.
- 1.7 "Crane" means a crane hired by McLeod to the Customer (whether the original crane hired or any substituted crane) and includes all accessories and other Equipment belonging to McLeod attached to the crane or to be used in connection with it. For the purposes of these Terms and Conditions the crane shall be deemed to be the property of McLeod.

### 2. HIRE OF EQUIPMENT AND SERVICES

- 2.1 The Customer agrees to hire the Equipment & Services and accepts the supply of the Equipment and Services from McLeod in accordance with these Terms and Conditions of Trade.
- 2.2 The Customer agrees that it has used its own skill and knowledge in selecting the Equipment and Services to be provided by McLeod so that the Equipment and Services are fit for their intended purpose.

### 3. ACCEPTANCE

- 3.1 Any instructions received by McLeod from the Customer for the supply of equipment and services, including equipment and services that McLeod has ordered or is required to order from overseas shall constitute a binding contract and acceptance of these Terms and Conditions of Trade.

### 4. COLLECTION AND USE OF INFORMATION

- 4.1 The Customer authorises McLeod to collect, retain and use any information about the Customer, or for the purpose of assessing the Customer's credit worthiness, enforcing any rights under this contract, or marketing any Equipment and Services provided by McLeod to any other party.
- 4.2 The Customer authorises McLeod to disclose any information obtained to any person for the purposes set out in clause 4.1.
- 4.3 Where the Customer is a natural person the authorities under clauses 4.1 and 4.2 are authorities or consents for the purposes of the Privacy Act 1993.

### 5. PRICE

- 5.1 Where no price is stated in writing the equipment and services shall be deemed to be hired at the current amount as such equipment and services are hired by McLeod at the time of entering the contract.
- 5.2 The Price is subject to any reasonable increase in the cost of supply of the Equipment and Services that is beyond the control of McLeod between the date of the contract and delivery of the Equipment and Services.
- 5.3 McLeod may require the payment of a deposit, the sum of which will be determined by McLeod in its sole discretion.
- 5.4 McLeod reserves the right to revise its rates of hire and related charges without notice.
- 5.5 McLeod may apply a Fuel Adjustment Factor to the cost to cover fluctuations in the fuel price during the term of the contract.

### 6. PAYMENT

- 6.1 Unless agreed otherwise all Equipment & Services supplied must be paid for in full on or before seven calendar (7) days following the date of the invoice ("the Due Date"), without deduction.
- 6.2 Compounding monthly interest may be charged on any amount owing after the Due Date at the rate of 2.5% per month or part thereof. This clause 6.2 excludes any disputed amounts, subject to those disputed amounts being resolved within thirty (20) days of notification of the disputed payments by the Customer to McLeod, after which the aforementioned interest charge may apply
- 6.3 Without limiting any other obligation under these Terms and Conditions of Trade, the Customer shall upon demand pay or reimburse McLeod for any expenses, disbursements and legal costs incurred by McLeod in the enforcement of any rights, powers or remedies under or in relation to these Terms and Conditions of Trade, including, and without limitation, any reasonable solicitor's fees, other legal and court costs and debt recovery expenses.
- 6.4 Payment is not deemed to be effected until any payment appears as cleared funds in McLeod bank account.
- 6.5 A deposit may be required before the provision of Equipment & Services.

### 7. QUOTATION

- 7.1 Where a written quotation is given by McLeod for Equipment & Services:
- 7.1.1 The quotation shall be valid for thirty (30) days from the date of issue; and
- 7.1.2 The quotation shall be exclusive of Goods and Services Tax unless specifically stated to the contrary; and
- 7.1.3 Only written quotations are binding on McLeod.
- 7.2 Any quoted prices may be subject to certain requirements provided by McLeod to the Customer which are to be read in addition to these terms and conditions of trade.

### 8. DISPUTES

- 8.1 No claim relating to Equipment & Services will be considered unless made within three (3) calendar days of delivery of the Equipment & Services, or where appropriate, supply and erection of other works.
- 8.2 In the event of any dispute or difference arising between the parties in respect of any matter concerning these Terms and Conditions of Trade, the parties shall in good faith in the first instance use their best endeavours to resolve the matter themselves.
- 8.3 If the parties are not able to resolve the matter themselves the parties may agree upon a formal mediation to be conducted by a mediator acceptable to both parties. The Customer and McLeod shall bear the costs of the mediator equally.
- 8.4 If the parties do not agree upon the appointment of a mediator within a reasonable period, or the parties are unable to resolve the dispute by mediation, the dispute shall be referred to Expert Determination.
- 8.5 The Expert shall be appointed by the President of AMINZ. The Customer and McLeod shall bear the costs of the Expert equally.

- 8.6 The Customer and McLeod agree that the Expert's Determination is final and binding on the Customer and McLeod.

### 9. ORAL AGREEMENTS AND STIPULATIONS

- 9.1 No oral agreement, promise, collateral stipulation, representation, condition or warranty given or entered into by McLeod, or by McLeod and not in conformity with the McLeod Terms and Conditions of Trade shall be binding upon McLeod unless confirmed in writing by McLeod.

### 10. LIABILITY

- 10.1 In respect of any implied warranties, conditions or terms imposed on McLeod by statute or law, McLeod's liability shall only apply to the minimum extent required by the relevant statute or law.
- 10.2 All carriage shall be in accordance with Contract and Commercial Law Act 2017 at limited carrier's risk unless otherwise agreed in writing.
- 10.3 Except as otherwise provided by clause 10.1, McLeod shall not be liable for any loss or damage of any kind whatsoever whether suffered or incurred by the Customer, or another person, and whether in contract, or tort, or otherwise, and whether such loss or damage arises directly or indirectly from Equipment & Services provided by McLeod to the Customer, except where such loss or damage arises directly from the negligence or default of McLeod.
- 10.4 McLeod shall not in any circumstances be liable for any indirect or consequential loss or damage (including, without limitation, loss of profits or revenue) incurred by the Customer or any other person.
- 10.5 The Customer shall indemnify McLeod against all claims and loss of any kind whatsoever however caused or arising, brought by any person in connection with any matter, act, omission, or error in connection with the Equipment & Services, unless McLeod is responsible for such claims or losses as provided under clause 10.3.
- 10.6 McLeod will not be liable for any loss or damage of any kind whatsoever arising from any Equipment & Service not arriving on time, or from deficiencies in the performance or reliability of any Equipment & Service, unless such deficiencies in the performance or reliability are as a result of any wilful act or omission by McLeod or its servants, agents, contractors or subcontractors.
- 10.7 No party shall have any claim against McLeod nor shall McLeod be liable for any matter arising from or relating to these Terms and Conditions of Trade.

### 11. CUSTOMER'S HEALTH & SAFETY OBLIGATIONS

- 11.1 McLeod Lift Plans, Site Specific Safety Plan (SSSP), Task Analysis (TA) and Safe Operating Procedures (SOP) set out responsibilities relating to the health and safety responsibilities of the Customer. The Customer shall when using the Equipment and Services, comply with the responsibilities in these safe operation documents, which shall be made available to the Customer on request to McLeod. The contents of the safe operation documents are to be read together with and form part of this contract
- 11.2 The Customer and McLeod shall comply with their respective obligations under the Health and Safety at Work Act 2015 (and any applicable regulations or codes of practice made pursuant to that Act including, but not limited to, the HSE (Pressure Equipment, Cranes and Passenger Ropeways) Regulations 1999) and Health and Safety at Work (General Risk and Workplace Management) Regulations 2016 to ensure that, in performing their respective obligations under this contract, a safe working environment exists for:

- 11.2.1 employees and contractors of McLeod and the Customer; and
- 11.2.2 third parties entering or on the Site

### 12. CONDITIONS OF USE AND HIRE OF EQUIPMENT AND SERVICES

- 12.1 Where equipment is dry hired from McLeod:
- 12.1.1 The Customer shall not part with possession of the Equipment AND shall not sublet, sell, or attempt to alienate the Equipment in any way, or grant a security interest in, or deal with the Equipment in any way that may be prejudicial to McLeod; and
- 12.1.2 Except as otherwise provided by these Terms and Conditions, the Customer shall be liable for any damage to, or loss of, the Equipment however caused (but excluding fair wear and tear) AND in the event of any Equipment being damaged or lost the Customer shall pay to McLeod the cost of making good the repair to the Equipment or the cost of replacing the Equipment whichever is the lesser.
- 12.2 **Site Conditions and Access** – The Customer will ensure:
- 12.2.1 That the ground at the site is adequate to support the crane or transporter under its wheels, tracks and or outriggers; and
- 12.2.2 That the ground giving access to the site is stable and firm and of a gradient no steeper than 1 in 10; and
- 12.2.3 That at all times a minimum clearance of 4 metres is maintained in respect of all overhead wires and that footpaths, kerbs and channels are suitably planked, and
- 12.2.4 Should the crane or transporter need to be towed into or out of the site, the cost shall be additional to the rate quoted and will be to the Customer's cost.
- 12.3 **Slings, chains and rigging** – The customer understands that:
- 12.3.1 McLeod will supply its standard selection of slings and lifting equipment but accepts no responsibility for loss or delay if these are found to be unsuitable for the purpose required.
- 12.3.2 All slings and ancillary equipment shall be used by the customer at the sole risk of the customer.
- 12.3.3 McLeod does not accept responsibility for the correct use of slings or lifting equipment or for the method of slinging.
- 12.3.4 If any slings or lifting equipment belonging to McLeod is destroyed or damaged, the customer shall pay to McLeod the cost of replacement or repair (as the case may be) resulting from that destruction or damage.
- 12.4 Use and Handling of Crane:
- 12.4.1 When the Crane Operator is under the direct direction and control of the Customer and is acting as instructed the Customer alone shall be responsible for all claims arising in connection with the operation of the crane by the Crane Operator.
- 12.4.2 The Customer shall not:
- (i) Require, permit or suffer the crane operator to do anything contrary to any act, regulation, by-law, requirement, code of practice or recognised convention;
- (ii) Allow any other person to operate the crane without first obtaining the written consent of McLeod;
- (iii) Permit or suffer the operation or direction of the Crane by any person who is under the influence of drugs or alcohol; or
- (iv) Use or permit the use of the Crane to lift any load which is beyond the rated lifting capacity of the Crane or for any purpose other than for which McLeod has permitted it to be hired. For the avoidance of doubt McLeod does not warrant that the Crane is fit or suitable for any such purpose; or
- (v) Issue instructions to the Crane operator which conflict with the directions of McLeod, the Crane operator's employment obligations, or would otherwise breach these Terms and Conditions of Trade or cause any risk to persons or property

- 12.4.3 McLeod reserves the right to provide a supervisor to the site if McLeod in its sole discretion considers it necessary. The Customer is required to pay the cost of the supervisor to McLeod.
- 12.4.4 The Customer warrants that the weight of the object or objects to be lifted in any one lift and the radius of the proposed lift (measured from the radial point of the Crane) will not be exceeded at any time. Where the weight is getting close to the maximum lifting capacity of the Crane, as stated by the Crane's safe load indicator, McLeod's operator or supervisor has absolute discretion whether to complete the lift as planned or use a safer alternative. A larger capacity Crane may be required and that will be at a cost agreed before completion of the lift.
- 12.4.5 Where the Customer has understated the weight or dimensions of the goods to be lifted by the Crane, and McLeod has relied on the weight, dimensions or working radius stated, the Customer shall be responsible for all extra cost and risk incurred by McLeod by reason of McLeod's reliance upon such stated weight, dimensions or working radius.
- 12.4.6 The Customer shall be responsible for all loss or damage whatsoever caused while the Crane is entering, leaving or on the site, including the cost of repairs suffered or incurred by McLeod in consequence of any breakdown or damage to the Crane where such breakdown or damage is caused by any negligent act, omission, misdirection, or misuse of the Crane on the part of the Customer or the Customer's servants, agents, contractors or subcontractors. The Customer's liability in respect of this clause 12.4.6 will be reduced proportionately to the extent that any loss or damage is as a result of a wilful act or omission by McLeod or its servants, agents, contractors or subcontractors.
- 12.4.7 The Customer shall be responsible for all damage caused when requiring lifts by the crane to reach into buildings from outside of the building such as that which occurs during plaster board deliveries due to the high-risk nature of this activity.
- 12.4.8 The Customer shall be solely responsible for the strength and suitability of all lift points used to secure rigging for lifting.
- 12.4.9 The Customer agrees that the wind speed on site determines if the lift is safe to proceed based on the crane manufacturers limit, the crane operators limit, the McLeod company wind limit, the limit imposed by the load and the Site wind limit. If the work cannot proceed due to wind speed the Customer shall be responsible for all extra cost incurred by McLeod.
- 12.5 **Use and Handling of "Transporter" (Hiab Trucks, Semi-Truck, Rigid Trucks and Trailers):** The Customer shall be responsible for all loss or damage whatsoever caused while the Transporter is entering, leaving or on the site, including the cost of repairs suffered or incurred by McLeod in consequence of any breakdown or damage to the Transporter where such breakdown or damage is caused by any negligent act, omission, misdirection, or misuse of the Transporter on the part of the Customer or the Customer's servants, agents, contractors or subcontractors. The Customer's liability in respect of this clause 12.5 will be reduced proportionately to the extent that any loss or damage is as a result of a wilful act or omission by McLeod or its servants, agents, contractors or subcontractors
- 12.6 **Equipment Loss of Traction and Recovery:** The Customer shall be fully responsible for the recovery of all Equipment that becomes stuck or loses traction on the Site.
- 12.7 **Damage to Goods:** McLeod accepts no responsibility for loss or damage to goods being handled by the crane or damaged by the crane however caused during the period of the hire.
- 12.8 **Damage to Services and Property:** The Customer shall be solely responsible for all damage which may be caused to underground and overhead services, footpaths, driveways, grounds, lawns, fences, structures, vehicles or any other property whatsoever caused by the Customer during the period of hire.
- 12.9 **Stoppages:** McLeod shall not be responsible for any loss or damage arising out of any stoppage or delay occasioned by a cause beyond McLeod control including but not limited to weather conditions, ground conditions, strikes and industrial disputes.
- 12.10 **Site Security:** It is the Customers responsibility to ensure the security of Equipment. The Customer shall be responsible for all losses or damage whatsoever caused while the Crane, Transporters or Equipment is left on the Site, including the cost of repairing damage suffered or incurred by McLeod as a consequence of any damage caused by any act- or omission on the part of the Customer or the Customer's contractors, sub-contractors or members of the public and shall be responsible for the payment of hire at the appropriate cost during the period the Equipment is idle as a result of any such act or omission.
- 12.11 **Period of Hire:** The period of hire shall be calculated on a depot to depot basis and shall therefore be the elapsed time in any day from the time of the dispatch of the Equipment to the Customer from the McLeod depot to the time of re-delivery of the Equipment by the Customer to McLeod depot on that or any other day. Hire cost may include a minimum of one hour of elapsed time on site. McLeod may choose to use a Km rate on a depot to depot basis rather than a time rate.
- 12.12 **Additional Jib Sections and Crane Equipment:** Where transport of additional jib sections and Crane equipment is required, the cost of it will be additional to the hire rates quoted and will be to the Customer's account, together with the cost of rigging and de-rigging.
- 12.13 **Overtime:** Additional charges will be payable by the Customer in accordance with McLeod current hire price list for all work performed outside normal working hours 7am to 5pm and on Saturdays, Sundays or public holidays. A minimum charge of four hours for the operator applies to work carried out on Saturdays, Sundays or call back on Saturdays/Sundays. A minimum charge of eight hours for the operator applies to work carried out on public holidays or call back on public holidays.
- 12.14 **Site Allowance:** Where site allowances are payable, there will be an additional charge to the Customer.
- 12.15 **Operator's Accommodation:** Where the site is at a distance from the depot so that overnight accommodation for the Crane operator and any other accompanying personnel is necessary, the cost of travel between the accommodation and the site, the accommodation and meals will be at the Customer's cost.
- 13. CONSUMER GUARANTEES ACT**
- 13.1 The guarantees contained in the Consumer Guarantees Act 1993 are excluded where the Customer acquires equipment and services from McLeod for the purposes of a business in terms of section 2 and 43 of that Act.
- 14. PERSONAL GUARANTEE OF COMPANY DIRECTORS OR TRUSTEES**
- 14.1 If the Customer is a company or trust, the director(s) or trustee(s) signing this contract, in consideration for McLeod agreeing to supply Equipment and Services and grant credit to the Customer, the director(s) or trustee(s) also sign this contract in their personal capacity and jointly and severally personally guarantee and undertake to McLeod the payment of any and all present and future monies owed by the Customer to McLeod.
- 14.2 Any personal guarantee made by any party shall relieve the Customer in any way whatsoever from the liabilities and obligations contained in these Terms and Conditions. The guarantors and the Customer shall be jointly and severally liable under the Terms and Conditions of this contract.
- 15. TERMINATION**
- 15.1 McLeod may immediately and without notice terminate the supply of Equipment and Services if:
- 15.1.1 The Customer fails to pay any money due or to perform any of its obligations under these Terms and Conditions of Trade;
- 15.1.2 McLeod believes on reasonable grounds that the Customer is about to breach or has breached any of these Terms and Conditions of Trade and that such breach may endanger any person or property;
- 15.1.3 The Equipment is destroyed or damaged to such an extent that it is inoperable or unsafe for use;
- 15.1.4 The Customer does anything that in McLeod opinion prejudices McLeod rights in the Equipment under this contract;
- 15.1.5 The Customer, if it is a company, goes into liquidation or a petition to liquidate or a notice of intention to propose a resolution to liquidate is presented to the Customer; or
- 15.1.6 The Customer, if it is a person, becomes bankrupt or dies.
- 15.2 Any such termination shall be without prejudice to the rights of McLeod in respect of any breach of these Terms and Conditions of Trade.
- 16. RIGHT TO DEAL WITH PRINCIPALS FOR ACCESS TO REMOVE EQUIPMENT**
- 16.1 The Customer acknowledges that it has no legal or equitable interest in the McLeod Equipment, and that in the event that any site or premises where the Equipment is hired, stored, used or the like are locked down, or access is denied to McLeod, the Customer authorises McLeod to deal directly with Customer's Principals to secure the immediate release of McLeod Equipment.
- 17. PERSONAL PROPERTY SECURITIES ACT 1999**
- 17.1 The Customer acknowledges that:
- 17.1.1 These Terms and Conditions create a security interest (as defined in the Personal Property Securities Act 1999) in favour of McLeod in Equipment hired to the Customer by McLeod for a term of more than 1 year (within the meaning of the term "lease for a term of more than 1 year" as defined in the Personal Property Securities Act 1999);
- 17.1.2 The Customer undertakes to do such acts and provide such information as in the opinion of McLeod may be necessary or desirable to enable McLeod to protect any security interest created or provided for by these Terms and Conditions, as a protected security interest with first priority.
- 17.1.3 The Customer shall act immediately when requested by McLeod; and
- 17.1.4 To the fullest extent permitted by law, the Customer waives any rights it may have now or in the future to receive a copy of any verification statement or other confirmation related to any security interest created or provided for by, or protected in the manner contemplated by these Terms and Conditions.
- 17.2 In addition to the security interest referred to in clause 16.1.1, the Customer also grants a security interest in all present and after acquired Equipment, against which monies are owed, as security for all moneys now and in the future owing by the Customer to McLeod.
- 18. INSURANCE**
- 18.1 Subject to clause 10.5, McLeod may, at its own expense, arrange and maintain such insurance as it, in its discretion, considers is required in respect of any Equipment and Service, including (without limitation) public liability insurance for the goods being handled by any Equipment, to such an amount as McLeod considers appropriate in the circumstances.
- 18.2 During the course of the hire, the Customer shall not do, or omit to do, anything that may allow the insurance cover referred to in Clause 16.1 or claims under that insurance cover to be void, cancelled or refused or whereby the premiums thereon may be increased.
- 18.3 Where the Customer is required to obtain its own insurance for the Equipment and Service, it will name McLeod as a co-owner of the policy and provide McLeod with a copy of the policy at least 1 working day prior to the commencement of the hire.
- 19. MAINTENANCE OF CRANE**
- 19.1 The Customer shall be responsible for the day to day maintenance of a Crane where such Crane is in the possession of a Customer on a Dry Hire basis including, without limitation, the supply of fuel for the operation of the Crane.
- 20. NOTICE OF INCIDENTS/ACCIDENTS**
- 20.1 If any Equipment is involved in any accident resulting in injury to any person or damage to any property (including damage to the Equipment itself), or any incident that could have resulted in injury to any person or damage to any property (including damage to the Equipment itself), the Customer must give immediate notice of the accident/incident to McLeod by telephone and provide details of the accident/incident to McLeod within 24 hours in writing.
- 21. MISCELLANEOUS**
- 21.1 Failure by either party to enforce any of the Terms and Conditions of Trade contained in this contract shall not be deemed to be a waiver of any of the rights or obligations that party has under this contract.
- 21.2 If any provision of this contract shall be invalid, void or illegal or unenforceable the validity existence, legality and enforceability of the remaining provisions shall not be affected, prejudiced or impaired.
- 21.3 No amendment to these Terms and Conditions will be effective unless it is in writing signed by both parties.
- 21.4 Neither party may assign, transfer or deal in any manner with the benefit or burden of these Terms and Conditions without the prior consent of the other party.
- 21.5 These Terms and Conditions may be executed in two counterparts, each which will be deemed an original, but both of which will constitute one and the same instrument. A party may enter into this contract by signing a counterpart.
- 21.6 These Terms and Conditions of Trade, together with the Guarantee and Indemnity, Credit Account Application Form and the Handbook constitute the entire agreement between the parties on the supply of the Equipment and Services. Together they replace all earlier agreements, conditions and warranties, whether oral or written, between the parties relating to the supply of the Equipment and Services.
- 21.7 These Terms and Conditions of Trade are subject to the Laws of New Zealand unless stated otherwise.
- 21.8 All amounts due are payable in New Zealand Dollars unless stated otherwise.

**FOR A LARGE PRINT VERSION SEE:**

<https://www.mcleod.nz/terms-and-conditions-of-trade.html>



# 3D Reality Capture

The McLeod Engineering team use a 3D reality capture solution to document and capture the as-built environment in 3D.

This improves our efficiency and productivity in the field and in the office through fast, simple-to-use, accurate, and portable hardware and software.

This allows us to then plan your lift based on actual site information in 3D AutoCad to ensure we have considered all conditions in the actual environment.

The System is:

Highly portable, highly automated, intuitive and designed for maximum productivity.

Capture scans, including enriching High-Dynamic Range (HDR) imagery, in less than two minutes.

Automatically record your moves from station to station to pre-register your scans in the field without manual intervention.

Allows us to augment the data capture with information tags illustrating the opportunities for better planning, reflecting site reality, and boosting our teams' situational awareness.

We can then use this information prior to arrival and with the help of a virtual reality show Crane Operators and Riggers the actual site they will be working on.

This allows:

- Situational awareness
- Hazard Identification
- Lift Plan Feedback

McLeod uses tools such as reality capture to ensure your job goes to plan.

# ATF and STORAGE



We are excited to announce the opening of our new storage facility in Mt Maunganui.

At McLeod, we understand that having a secure and reliable storage solution is essential for many businesses. That's why we offer a state-of-the-art storage facility that is conveniently located close to the Port of Tauranga and main arterial routes.

Our facility is fully equipped with access to our specialist equipment such as cranes, hiabs, and transport solutions, making it the ideal storage solution for businesses that require easy access to these services.

Our storage facility is also in close proximity to our ATF and devanning facility, which means that we can handle all your storage and devanning needs in one convenient location. Whether you need to store goods for a short or long period of time, McLeod's outside storage facility has got you covered.

With 24/7 security and a range of storage options available, we ensure that your goods are safe, secure, and easily accessible whenever you need them.

# BEYOND THE SURFACE

Proud Supporters of  
Deep Dive Division and their work to  
recover scrap from the Waikato River



**Safety first.  
McLeod first.**

The first choice in the region.  
Unmatched in safety.

**McLEOD**