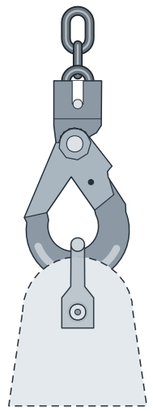
CATERPILLAR 320 GC

Tracked hydraulic excavator
Reach boom 5.7 m · arm 2.9 m · 600 mm shoes
Lifting from the quick hitch eye, bucket off
Object handling under LOLER 1998

DETAIL B — FOOT OF LEG 1:5



Clevis self-locking hook 8-10:
e 120, overall 164, opening 33
Bow shackle Green Pin G-4163 1.5 t:
bow Ø11, pin Ø13, jaw 19
Lifting lug: the load's own,
drawn indicatively (dashed)

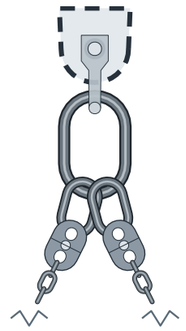
Thiele The Book 6.0 · Green Pin catalogue ch.1

THE LIFT AT A GLANCE

LOAD	**Marshalls DN1800 x 1000 chamber ring 1,760 kg · 1,760 kg**
TOTAL LOAD	**2,065 kg (from the schedule of lifts)**
RADIUS	**6.00 m**
CAPACITY AT RADIUS	**4,850 kg**
UTILISATION	**42.6 %**

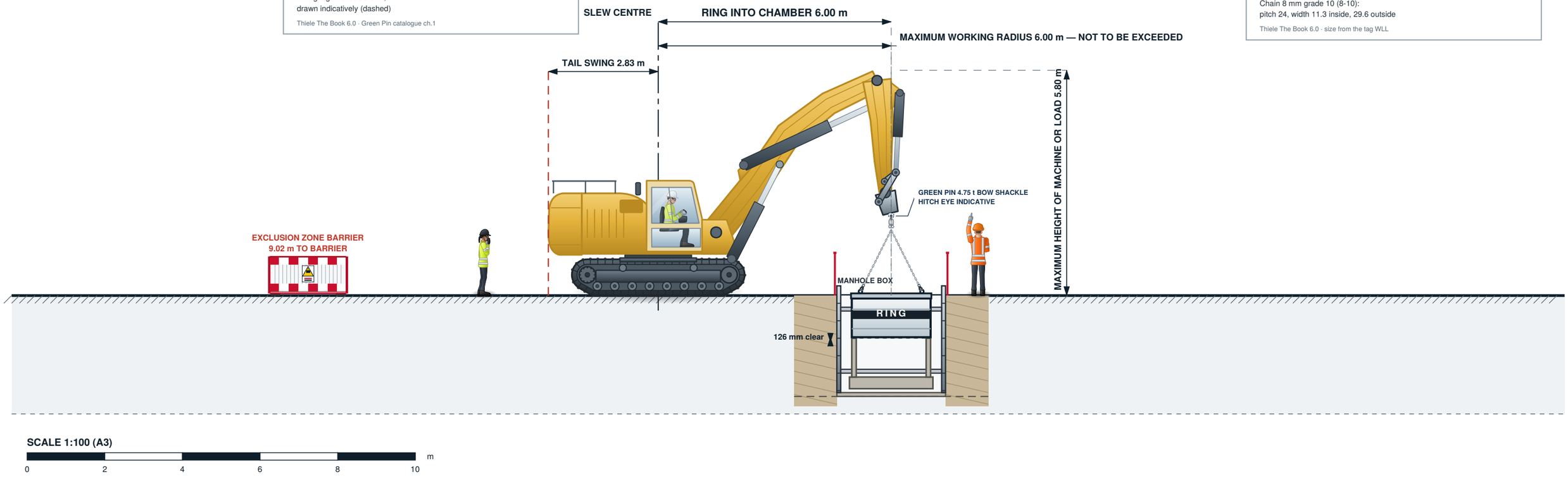
inside the 90 % ceiling

DETAIL A — HEAD OF SLING 1:10



Green Pin G-4163 4.75 t in the hitch eye:
pin Ø22; the eye is indicative
Master link assembly F1814020:
master 140 × 80 inside, bar Ø20
intermediates 70 × 35, bar Ø16
each intermediate carries two legs;
the second is behind, in line
Connecting link 8-10:
bearing to bearing 62, 85 × 55
Chain 8 mm grade 10 (8-10):
pitch 24, width 11.3 inside, 29.6 outside

Thiele The Book 6.0 · size from the tag WLL



SCALE 1:100 (A3)

0 2 4 6 8 10 m

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THE COMPLETE LIFT PLAN COMPANY

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LIFTING OPERATION
GENERAL ARRANGEMENT
ELEVATION (SIDE VIEW)

NOTES

1. Do not scale from this drawing — figured dimensions govern.
2. Radii are measured horizontally from the slew centre of the machine.
3. Tracked machine — no outriggers. Ground bearing is a track-pressure check.
4. Heights are derived from the solved working geometry shown.
5. No travelling with a suspended load unless the plan expressly allows it.
6. Read with the lift plan and the companion GA sheet.

LEGEND

- Machine superstructure and boom
- Tracks and undercarriage
- Load / set-down position
- Rigging, shackles and lifting eyes
- Slew centre line
- Lift team - positions indicative
- Existing ground / compacted formation

MACHINE	**Caterpillar 320 GC**
DUTY	**Object handling (LOLER 1998) · 4,850 kg at 6.0 m over the side, Cat 320 GC EU chart (ISO 10567)**
ATTACHMENT	**engcon S70 quick hitch 290 kg · lifting eye**
CLIENT / PC	**Example lift plan drawing · manhole chamber ring (fictional site)**
DRAWING No.	**RMT-EXAMPLE-02/EL-01**
SCALE / SIZE	**1:100 @ A3**

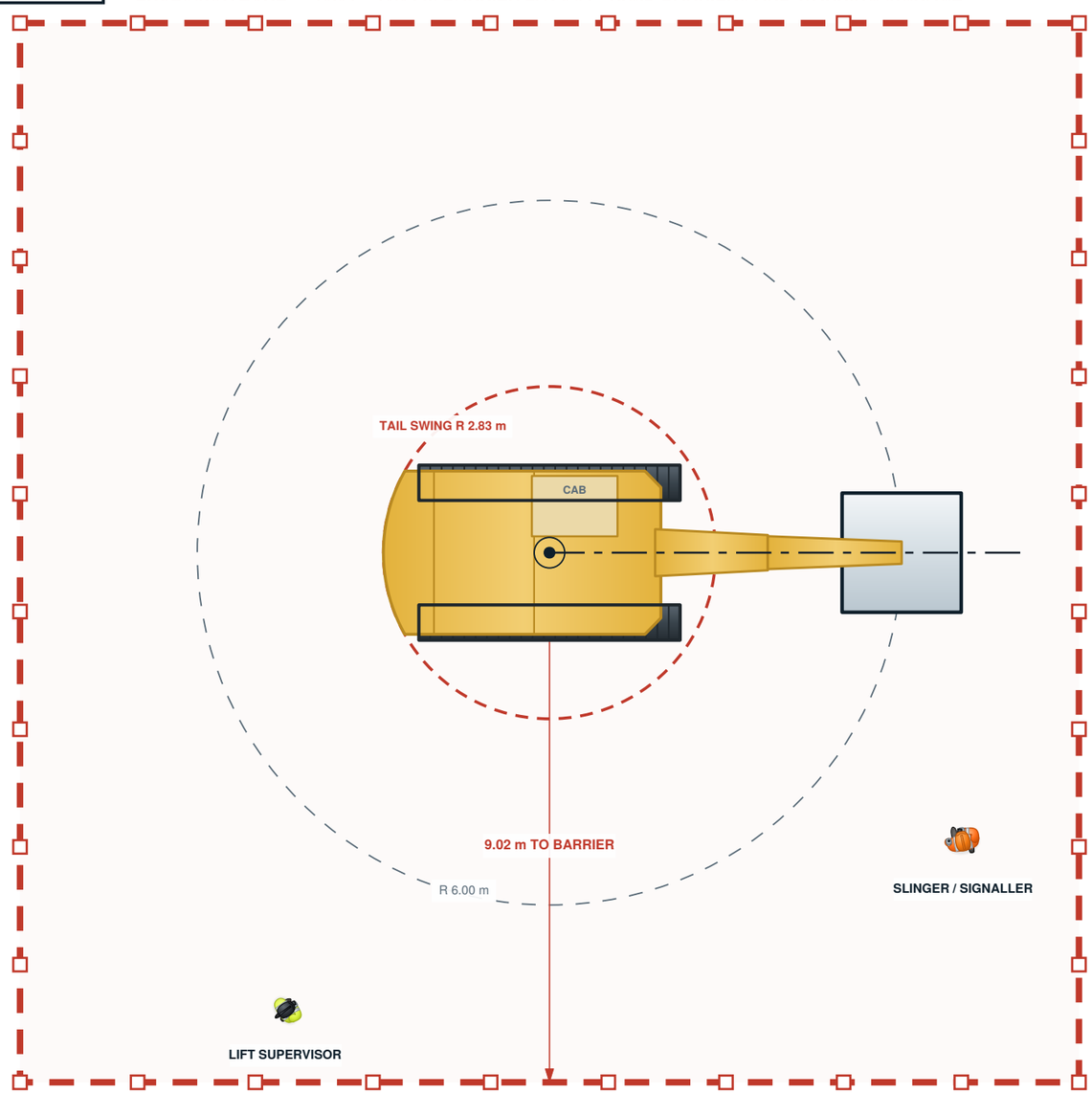
REV			MM / MM	DRAWN	CHECKED	APPROVED	
A	9 Nov 2026	First issue		9 Nov 2026 Michael Marsh	9 Nov 2026 Michael Marsh	9 Nov 2026 Michael Marsh, AP (CPCS A61)	EXAMPLE ONLY

SCHEDULE OF LIFTS — RMT-EXAMPLE-02 Rev A

Ref	Load	Radius	Total load	Util
A	Chamber ring lowered into the excavation	6.00 m	2,065 kg	42.6%

N

EXCLUSION ZONE — 18.04 × 18.04 m BARRIER LAYOUT · RIGID BARRIERS AND WARNING SIGNAGE



SCALE 1:100 (A3)

0 2 4 6 8 10 m

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LIFTING OPERATION
GENERAL ARRANGEMENT
PLAN (TOP VIEW)

NOTES

1. Do not scale from this drawing — figured dimensions govern.
2. Radii are measured horizontally from the slew centre of the machine.
3. Tracked machine — no outriggers. Ground bearing is a track-pressure check.
4. Exclusion zone 9.02 m = 6.00 m max radius + 1.01 m half load + 2.00 m.
5. Vehicle, set-down and personnel positions are indicative, confirmed on the day.
6. Read with the lift plan and the companion GA sheet.

LEGEND

- Machine superstructure and boom
- Tracks and undercarriage
- Load / set-down position
- Exclusion zone barrier
- Lift reference — see schedule
- Slinger, supervisor, marshal
- Tail swing R 2.83 m

MACHINE	Caterpillar 320 GC
DUTY	Object handling (LOLER 1998) · 4,850 kg at 6.0 m over the side, Cat 320 GC EU chart (ISO 10567)
ATTACHMENT	engcon S70 quick hitch 290 kg · lifting eye
CLIENT / PC	Example lift plan drawing · manhole chamber ring (fictional site)
DRAWING No.	RMT-EXAMPLE-02/PL-01
SCALE / SIZE	1:100 @ A3

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RIGGING ARRANGEMENT

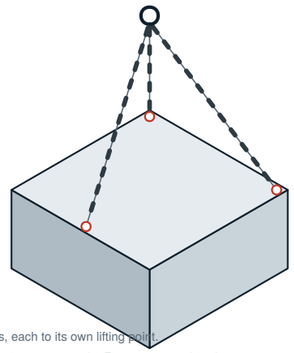
CATERPILLAR 320 GC

SCHEDULE OF LIFTING GEAR

3-leg Chain, tag 5.30 t	3.53 t	13.4 kg
Green Pin bow shackle x3	1.5 t	0.7 kg
Bow shackle in the hitch eye	4.75 t	1.18 kg
engcon S70 quick hitch	—	290 kg
LOAD	—	**1760 kg**
RIGGING	—	**305 kg**
GROSS LOAD	—	**2065 kg**

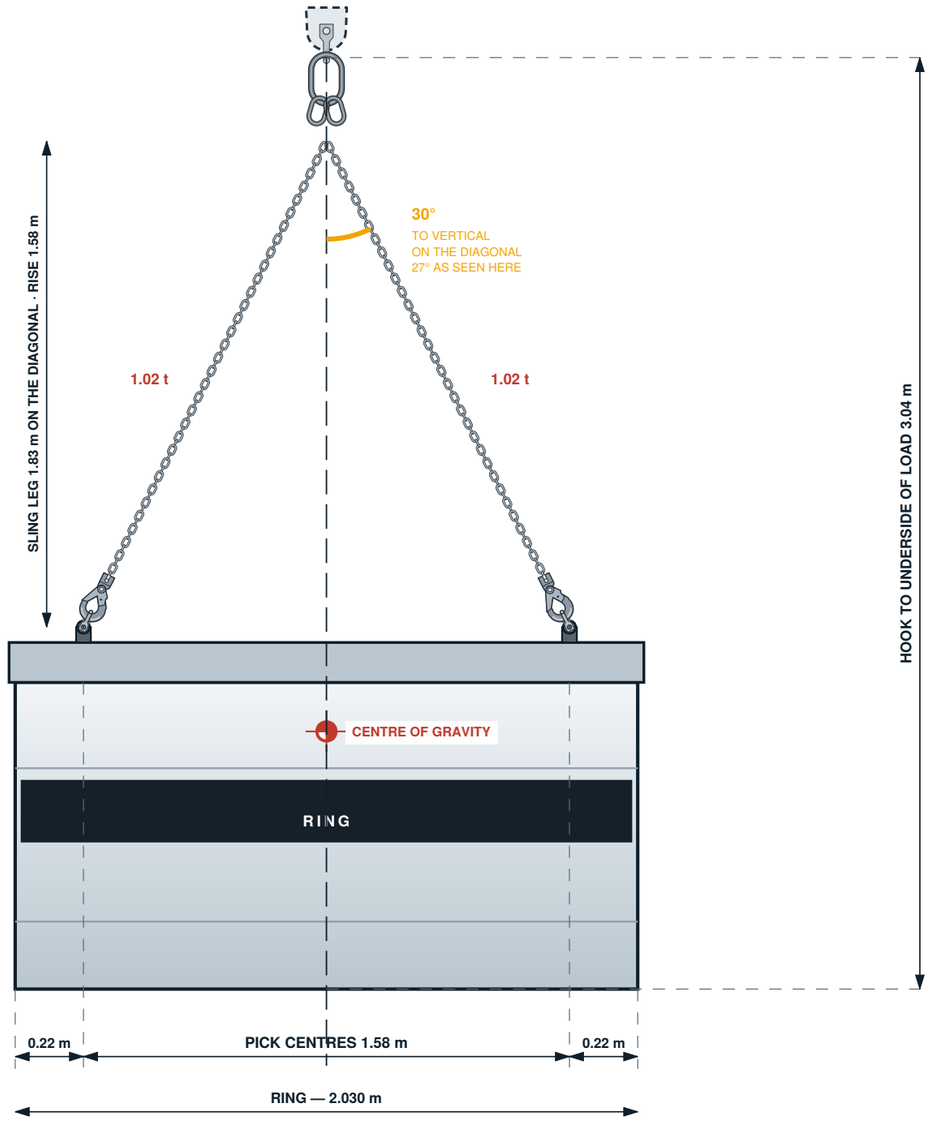
Shackle 1.5 t: jaw 19 mm · pin 13 mm · inside 43 mm
Green Pin (Van Beest) Bow Shackle BN G-4163
Sling mass not stated: off the maker's figures
Thiele The Book 6.0, 8 mm grade 10, legs 1.83 m

DETAIL C — ALL 3 LEGS



3 legs, each to its own lifting point.
Illustration, not to scale. Figures are on this sheet.



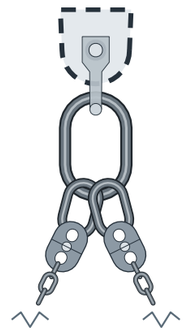


1:20

0 0.4 0.8 1.2 1.6 2 m

3-LEG SLING SHOWN IN THE PLANE THROUGH THE HOOK — REMAINING LEG IS FORESHORTENED. 3 PUBLISHED LIFTING POINTS

DETAIL A — HEAD OF SLING 1:10



Green Pin G-4163 4.75 t in the hitch eye:
pin Ø22; the eye is indicative
Master link assembly F1814020:
master 140 × 80 inside, bar Ø20
intermediates 70 × 35, bar Ø16
each intermediate carries two legs;
the second is behind, in line
Connecting link 8-10:
bearing to bearing 62, 85 × 55
Chain 8 mm grade 10 (8-10):
pitch 24, width 11.3 inside, 29.6 outside

Thiele The Book 6.0 · size from the tag WLL

DETAIL B — FOOT OF LEG 1:10



Clevis self-locking hook 8-10:
e 120, overall 164, opening 33
Bow shackle Green Pin G-4163 1.5 t:
bow Ø11, pin Ø13, jaw 19
Lifting lug: the load's own,
drawn indicatively (dashed)

Thiele The Book 6.0 · Green Pin catalogue ch.1

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LIFTING OPERATION
RIGGING ARRANGEMENT
BELOW THE HOOK

NOTES

Do not scale from this drawing — figured dimensions govern.

Sling angles are TO THE VERTICAL, as marked on the sling tag (BS EN 818-4 cl.7.3; BS EN 13414-1; BS EN 1492-1).

Marshalls plc chamber rings: published weight 1760 kg. Source: https://www.marshalls.co.uk/water-management/products/c….

3 published lifting points — use ALL lifting points provided, in their intended manner.

Mode factor 1.4 (three/four leg on a RIGID load with legs that are not individually adjustable, so worked as a two-leg sling at 0-45 deg (BS EN 13414-2 A.1.5.6)). Leg tension factor 1/cos β = 1.155.

Sling assembly rated 3.53 t on the 5.30 t 3-leg tag re-rated as a two-leg sling (x 1.4 / 2.1): rigid load, legs not individually adjustable (BS EN 13414-2 A.1.5.6). Utilisation 49.8%.

Gross load 2065 kg = load 1760 kg + rigging 305 kg. The duty chart is read on the GROSS load.

Accessories to be within a current thorough examination (LOLER 1998 reg.9) and checked before use. The AP selects the gear, its attachment and the CoG (BS 7121-1 cl.4.3.2(l)).

LEGEND

- Sling legs and rigging
- Load
- Centre of gravity
- Vertical through the hook

MACHINE	**Caterpillar 320 GC**
DUTY	**Object handling (LOLER 1998) · 4,850 kg at 6.0 m over the side, Cat 320 GC EU chart (ISO 10567)**
ATTACHMENT	**engcon S70 quick hitch 290 kg · lifting eye**
CLIENT / PC	**Example lift plan drawing · manhole chamber ring (fictional site)**
DRAWING No.	**RMT-EXAMPLE-02/RG-01**
SCALE / SIZE	**1:20 @ A3**

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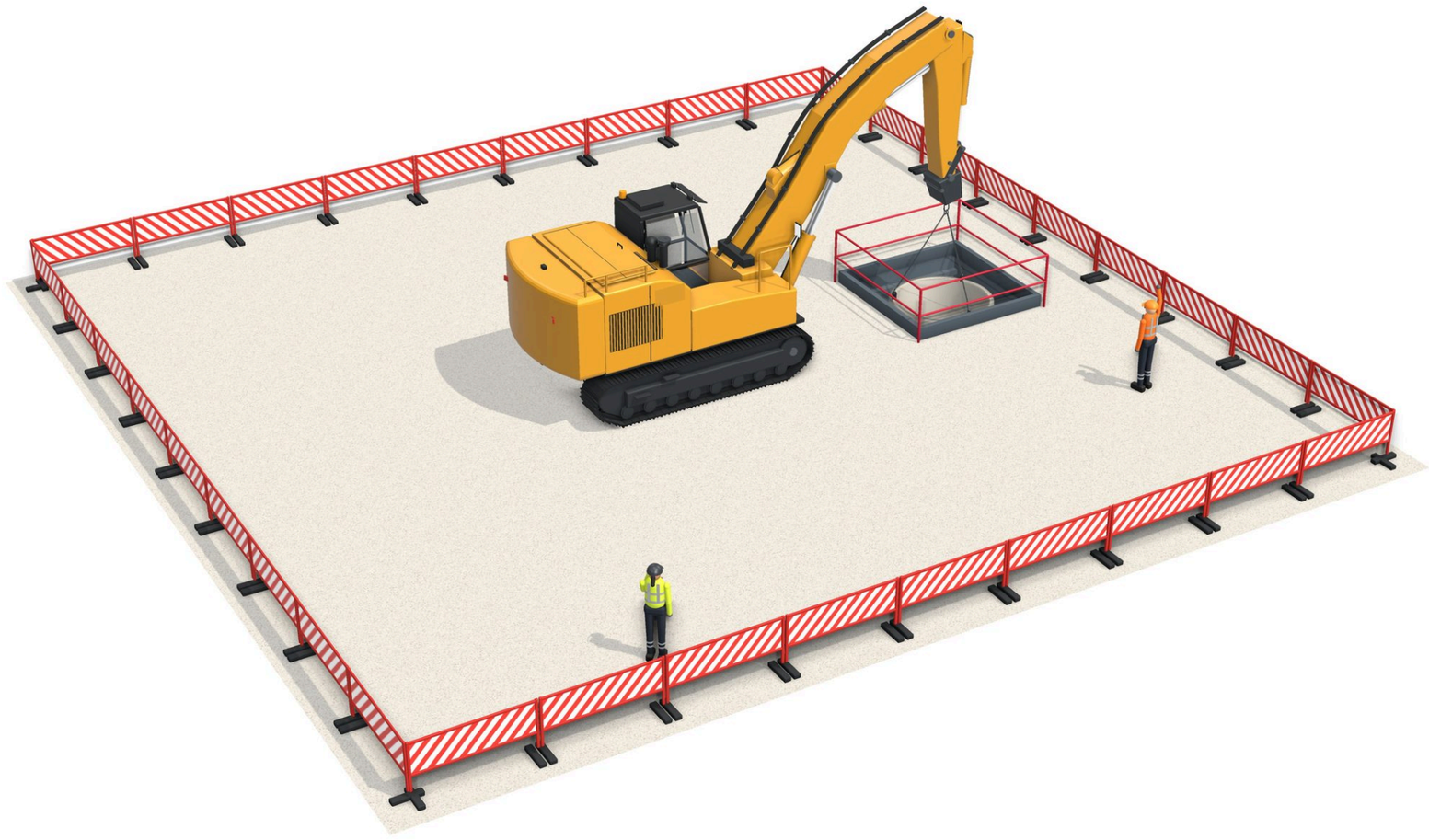
CATERPILLAR 320 GC

Three-dimensional views of the lift - illustrative, not for measurement

Marshalls DN1800 x 1000 chamber ring 1,760 kg, 2,065 kg resolved load, at 6.00 m radius on a 3-leg grade 10 chain

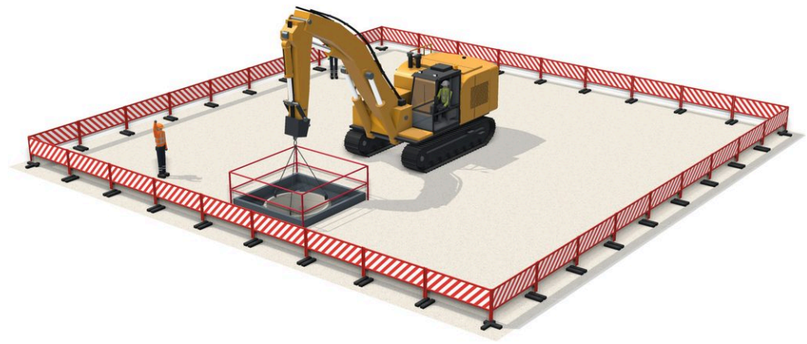
VIEW A - FROM BEHIND THE MACHINE, RIGHT-HAND SIDE

Machine, load and rig at the pick, 6.00 m radius; lift team and exclusion zone barrier



VIEW B - FROM AHEAD, OPERATOR'S SIDE

Operator's side of the cab, the load on its rig



DETAIL C - THE RIG AS IT IS

Rated eye, bow shackle, master link, 3-leg grade 10 chain, hooks on the load's lifting points



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LIFTING OPERATION
THREE-DIMENSIONAL VIEWS
VIEWS A, B AND DETAIL C (ILLUSTRATIVE)

NOTES

Three-dimensional views built from the same solved geometry as EL-01, PL-01 and RG-01: the machine from its profile with the boom and arm solved to the planned radius and height, the load, rig, vehicle, team and barrier where the plan puts them.

Illustrative - do not scale or measure from these views. Figured dimensions on EL-01 and PL-01 govern.

Read with the lift plan, EL-01, PL-01 and RG-01.

LEGEND

- Machine superstructure and boom
- Tracks and undercarriage
- Load - Marshalls DN1800 x 1000 chamber ring 1,760 kg
- Rigging - as RG-01
- Exclusion zone barrier, 18.04 x 18.04 m layout, 9.02 m radius
- Lift team - positions as PL-01

MACHINE	**Caterpillar 320 GC**
DUTY	**Object handling (LOLER 1998) · 4,850 kg at 6.0 m over the side, Cat 320 GC EU chart (ISO 10567)**
ATTACHMENT	**engcon S70 quick hitch 290 kg · lifting eye**
CLIENT / PC	**Example lift plan drawing · manhole chamber ring (fictional site)**
DRAWING No.	**RMT-EXAMPLE-02/3D-01**
SCALE / SIZE	**NTS @ A3**

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