

The background of the image is a large yellow lattice boom crane, likely a crawler crane, set against a backdrop of a cloudy, warm-toned sky. The crane's long boom is angled upwards and to the right, with its jib and counterweight visible. A smaller crane is partially visible in the background on the left.

SARENS

NOTHING TOO HEAVY, NOTHING TOO HIGH

 | sarens
ooo

SGC-250

3RD GENERATION SGC



 sarens

WHEN IT COMES
TO CRANES,
**SIZE DOES
MATTER.**

AND WE HAVE
**THE BIGGEST
ON PLANET
EARTH.**





MAXIMUM CRANE CAPACITY
1781T ON JIB



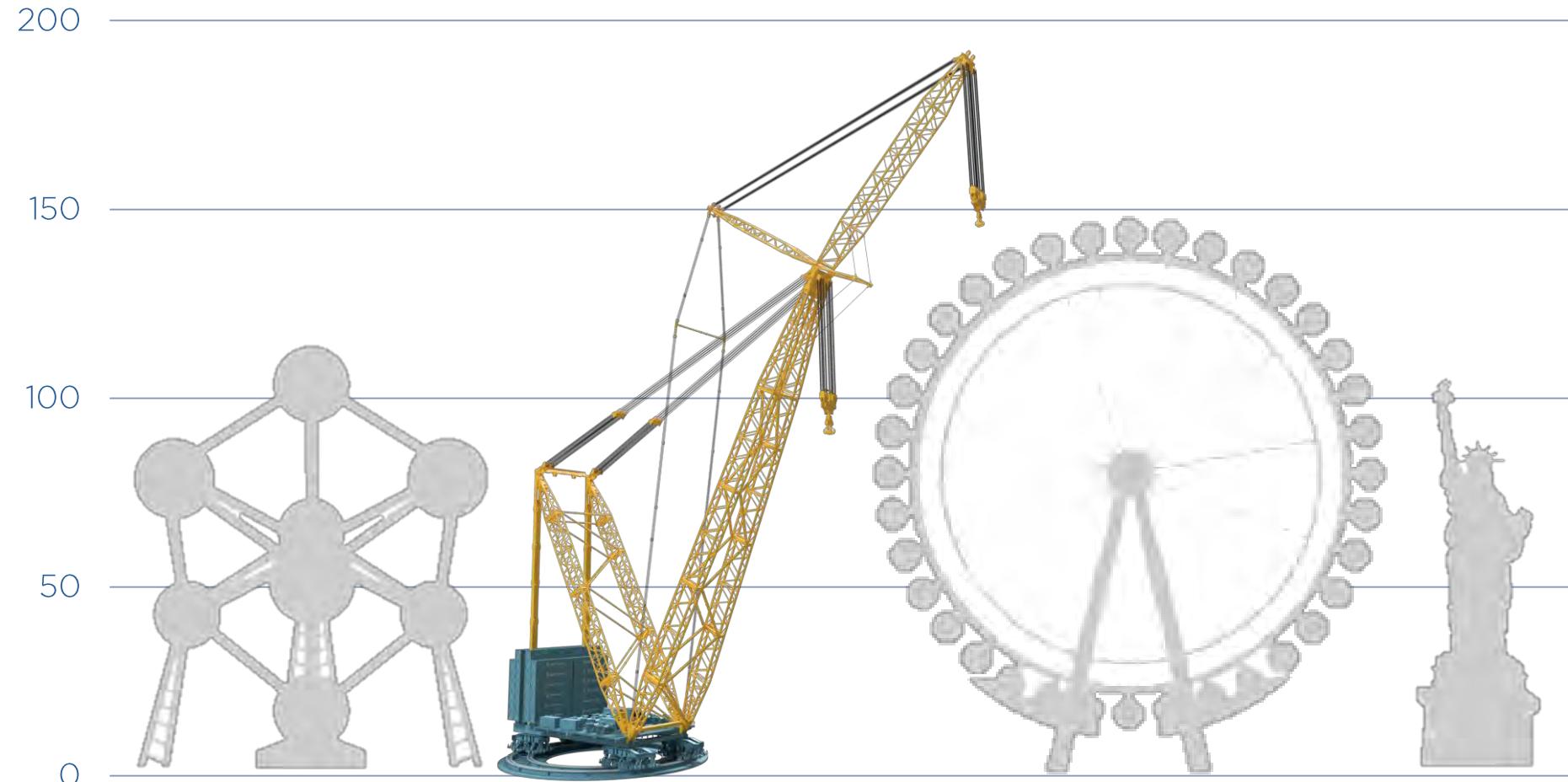
SGC-250

MAXIMUM LOAD MOMENT 250.000TM

MAXIMUM CAPACITY 5.000T



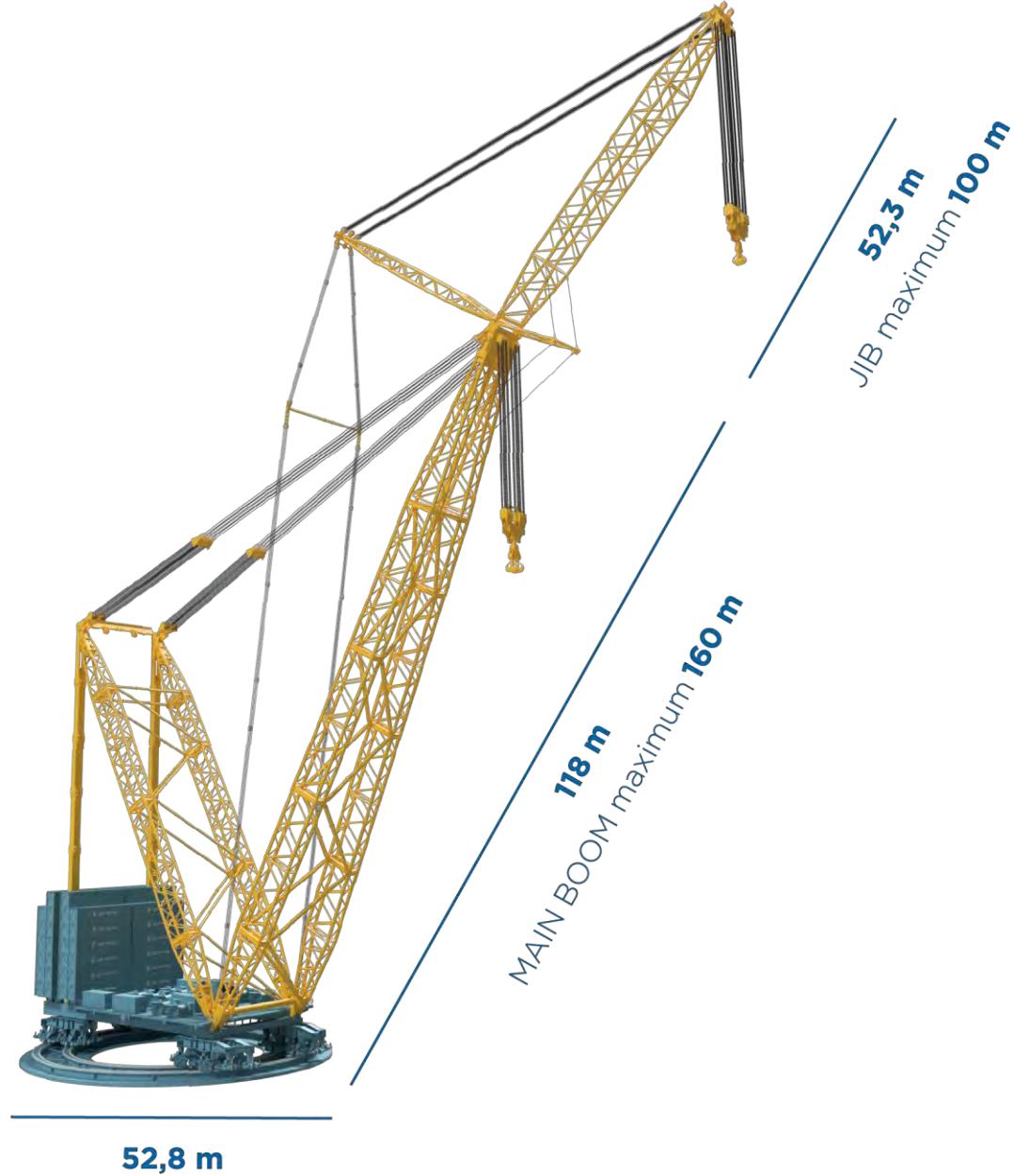
A TRUE GIANT



JIB CONFIGURATION

UP TO 250M HIGH

- Main boom
 - 118 m
 - 160,5m
- Heavy-duty jib
 - 40,5m
 - 52,3m
 - 64,1m
 - 87,7m
 - 99,5m
- Other configurations upon request
- Heavy-duty jib – generation SGC-120
- Upgrade jib upon request



BOOM CONFIGURATION

- Main boom
 - 118m
 - 160,5m
- Other configurations upon request

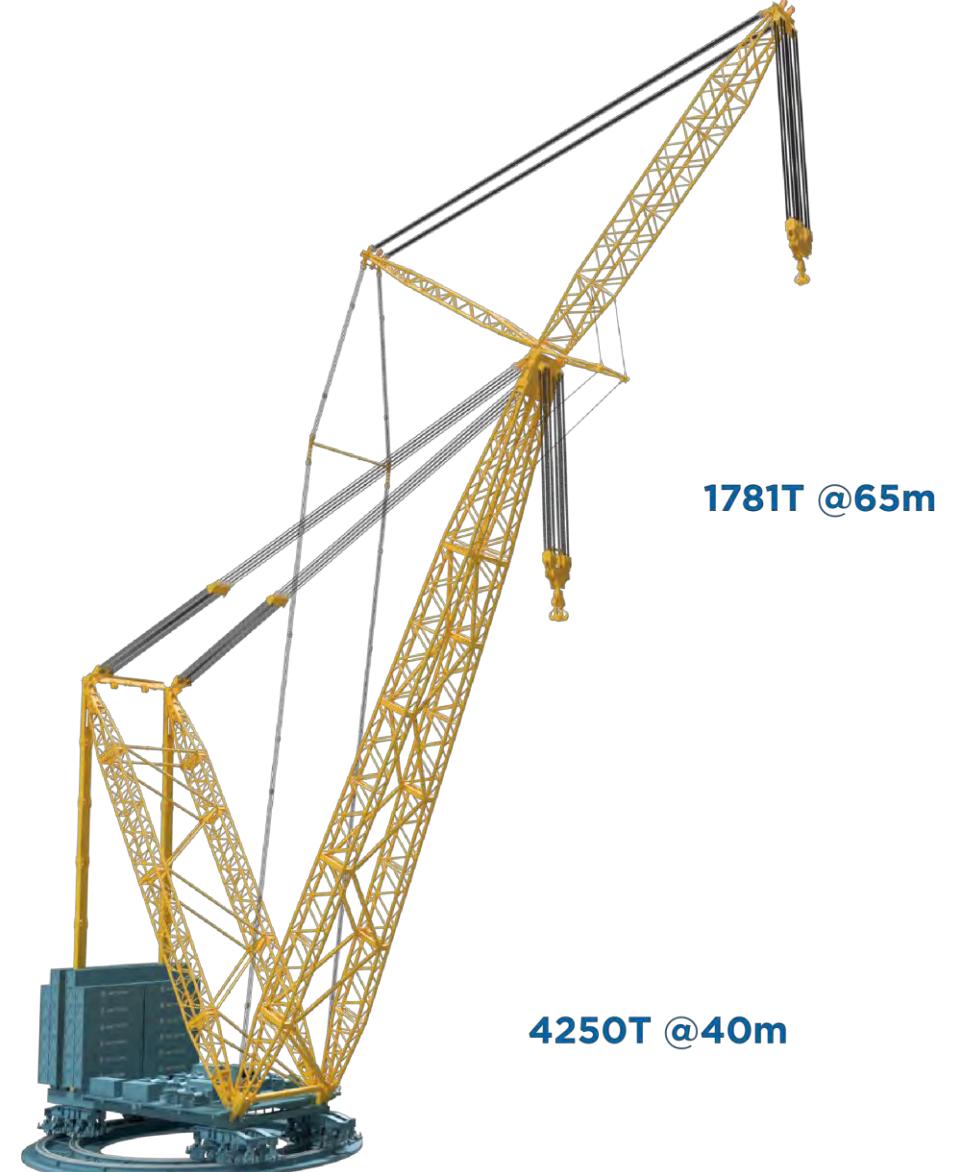


160,5 m

SGC-250



5000T

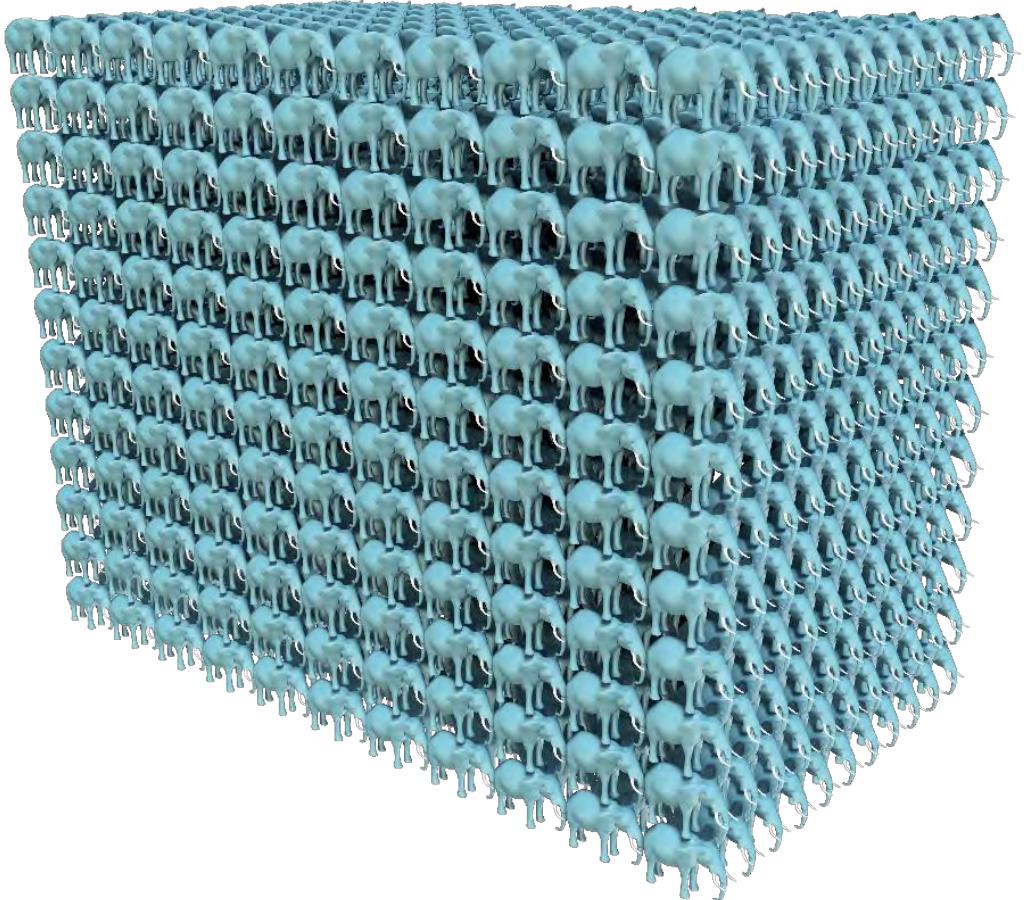


1781T @65m

5000T

HOW HEAVY IT IS

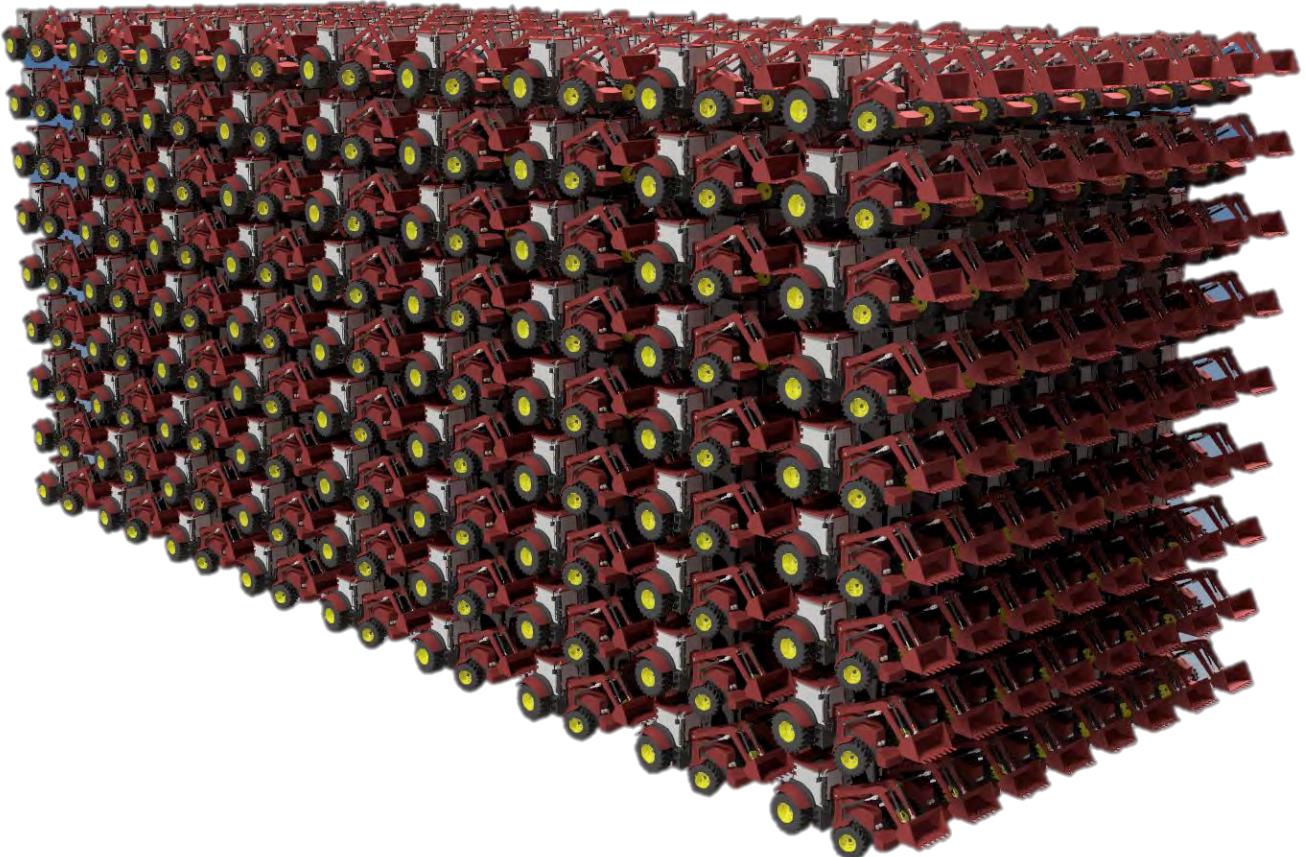
- 1408 Elephants
- 648 Tractors
- 126 Trucks
- 63 Trains
- 20 Planes



5000T

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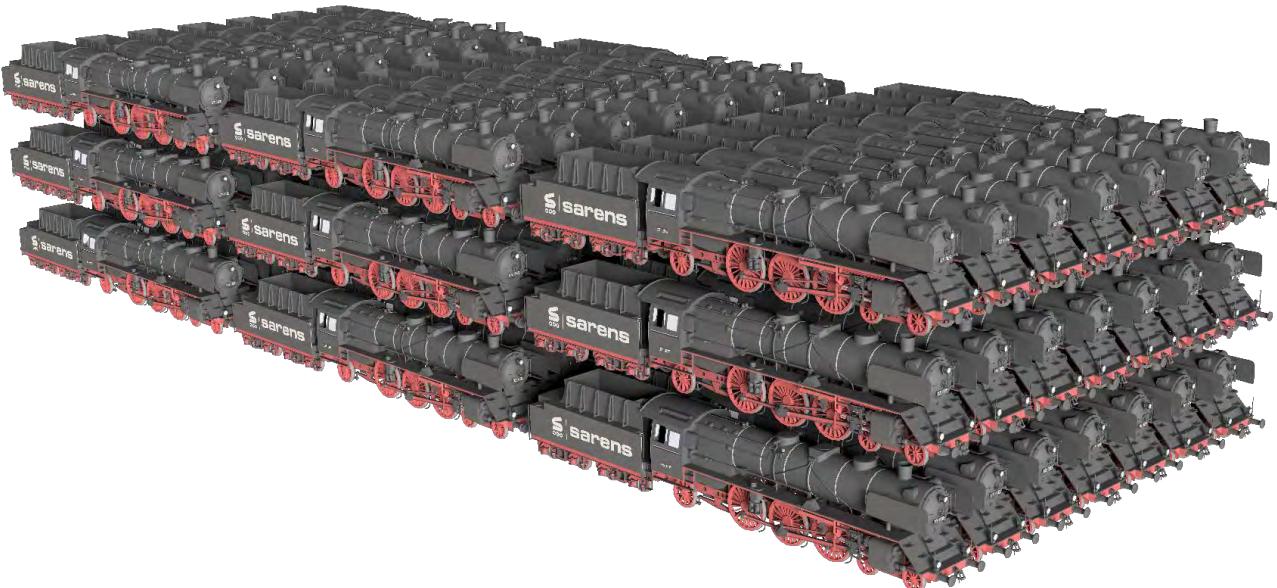
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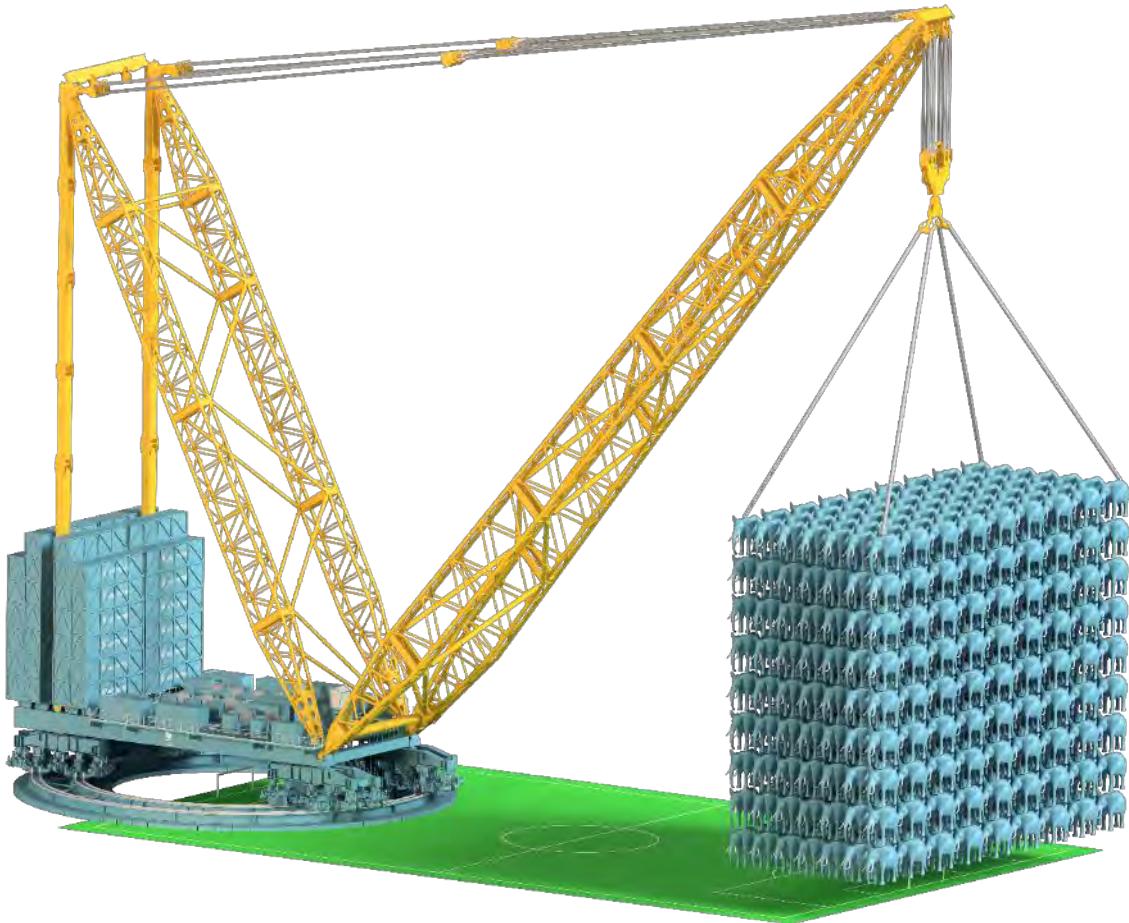
CAPACITY 5000T @ 40M

1408 ELEPHANTS



CAPACITY 2000T @ 100M

567 ELEPHANTS



CAPACITY 775T @ 165M

3 AIRBUS A380

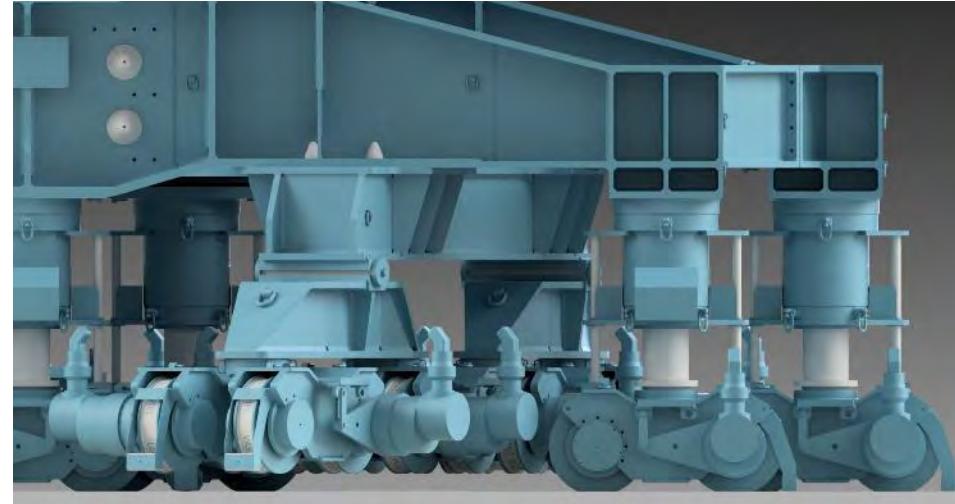


RELOCATION ON SITE

RELOCATION ON SITE



SGC-250 SUPPORTED ON **128** WHEELS
FOR SLEWING & LIFTING



SGC-250 SUPPORTED ON **96** WHEELS
FOR TRAVELLING

DESIGN & CONSTRUCTION

DESIGNING THE CRANE

FACTS

- 16000 Hours by R&D Engineers
 - Benny Sarens
 - Matthias Sarens
 - Tom Derveaux
 - Ward Sarens
 - Vincent Verhasselt
 - Line Rigo
 - Frederik De Coen
 - Mathijs Van den Berg
- 6.000 Hours by CAD Designers
 - Koen Ydens
 - Erwin Lemaire
 - Alexander Gatsaiev
 - Vahé Kocharyan
 - Werner Versluys
 - Raf Bervoets
- 25.000 HOURS by Specialists
 - Kris Colman
 - Wim Charita
 - Geert Puttemans
 - Boudewijn Sarens
 - Johan Gilis
 - Martin Redmond



BASE AND MACHINERY DECK

- 80 Ring spreader mats Ø 52,8m
- 2 Ring beams
- 4 Rails
- 4 Bogie assemblies
- 10 Winches
- 6 Power pack units
- 52 Counterweight containers
- 160m of boom, 910T
- 80m of mast, 350T
- 2x 65m of strut, 200T



CONSTRUCTION

COMPLETE CONSTRUCTION IN LESS 14 MONTHS
STARTED AUGUST 2017

- Belgium
- Germany
- Italy
- Poland
- Romania
- The Netherlands
- United Kingdom



BUILDING THE CRANE

FIRST ASSEMBLY IN PARALLEL WITH CONSTRUCTION



SGC FAMILY



SGC FAMILY

LOW GROUND PRESSURES

- High number of wheel bogies
- Equally loaded wheel bogies
- 2 ring beams
- Easy load spreading



RING SPREADER MATS

SGC FAMILY

COUNTERWEIGHT

- Locally sourced material
- 100T per container (total weight)
- Counterweight boxes also used to transport crane components
- Reduced transport cost

COUNTERWEIGHTS IN THE
ASSEMBLY CONFIGURATION



SGC FAMILY

HOOK BLOCK

- Main hook SWL 3.200T
- Jib hook SWL 1.600T



MAIN HOOK

Self-weight 105T

JIB HOOK

Self-weight 58T

SGC FAMILY

ZOLLERN ZHP 4,36

- 6 MAIN HOIST WINCHES:
 - ROPE Ø 50MM
 - LENGTH 4 X 1.600 & 2 X 2.000M
- 4 BOOM HOIST WINCHES :
 - ROPE Ø 50MM
 - LENGTH 2.600M
- MAX LINE PULL - 600KN

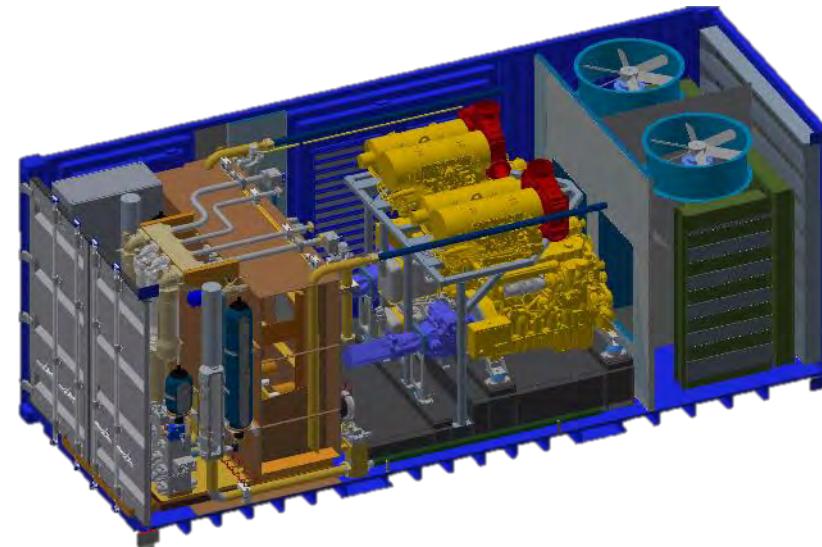


MAIN HOIST WINCH

SGC FAMILY

POWER PACK UNITS (PPU)

- **SIX POWER PACKS**
- TWO ENGINES PER PPU
- 310KW CATERPILLAR ENGINES
- TIER4 COMPLIANT



POWER PACK UNIT

SGC FAMILY



SGC-120

INAUGURATED 2011

Chandler, Arizona, USA



Newcastle, UK



Ghent, Belgium

Flamanville, FRANCE



Rabigh, SAUDI ARABIA



Jamnagar, INDIA



Qidong, CHINA



Cilacap, INDONESIA

SGC-140

INAUGURATED 2017



SGC-250

INAUGURATED 2018

Hinkley Point, UK  Ghent, Belgium

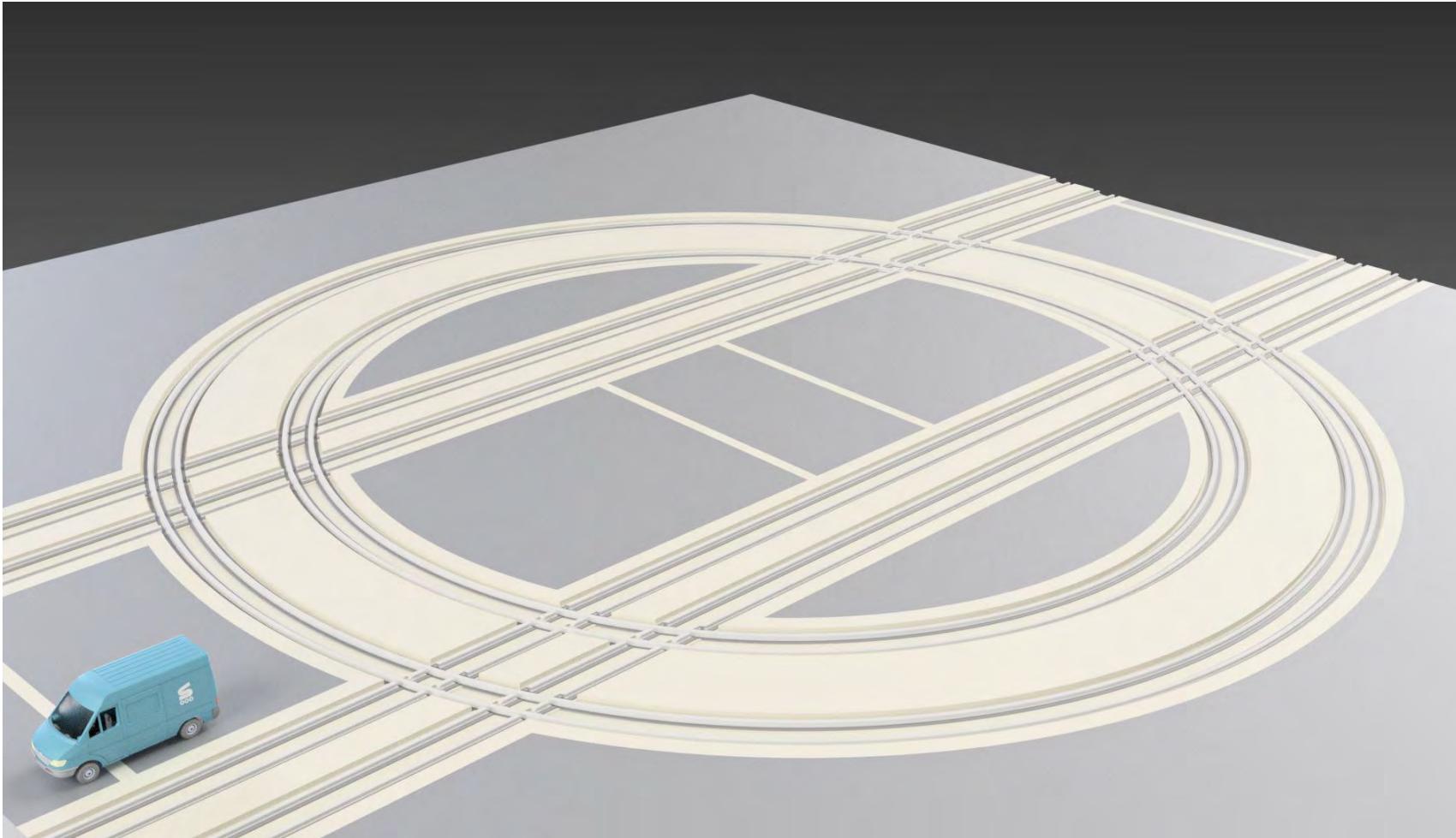
CONTROL SYSTEM & HYDRAULICS

FIGURES

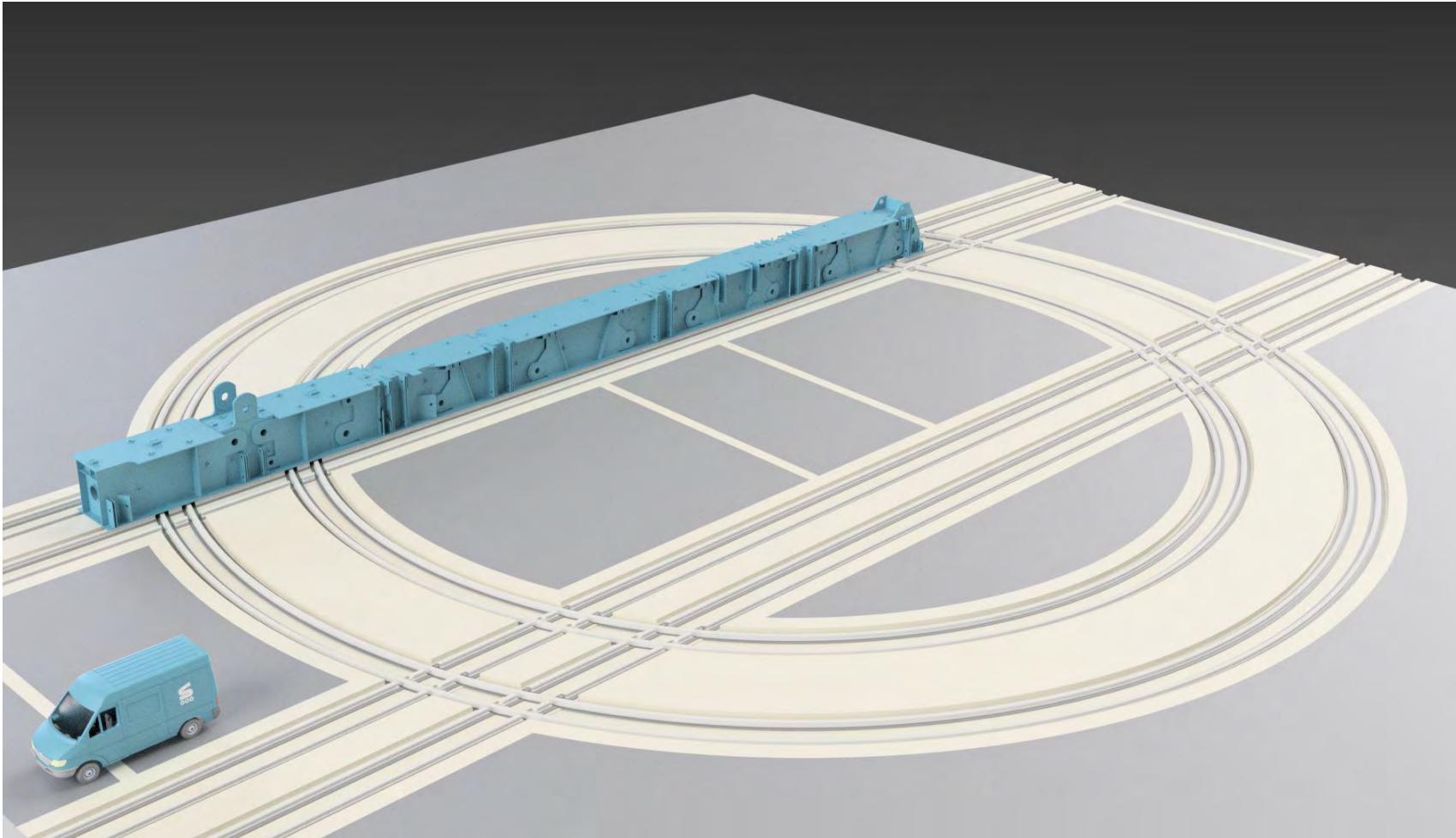
- 9.000L Diesel fuel
- 18.000L Hydraulic oil
- 14.50L/min Max oil displacement
- 6.000PK Combined power output
- 82 Hydraulic filters
- 2.000m Hydraulic Hoses
- 112 Hydraulic slewing motors
- 28 Hydraulic secondary units
- 932 Hydraulic quick connections
- 24 Motion Control PLCs
- 1 Master PLC
- 6.000h Software and control system engineering
- 1.000m Special Hybrid Cable
- 2.000m Power Cable

ASSEMBLY SEQUENCE

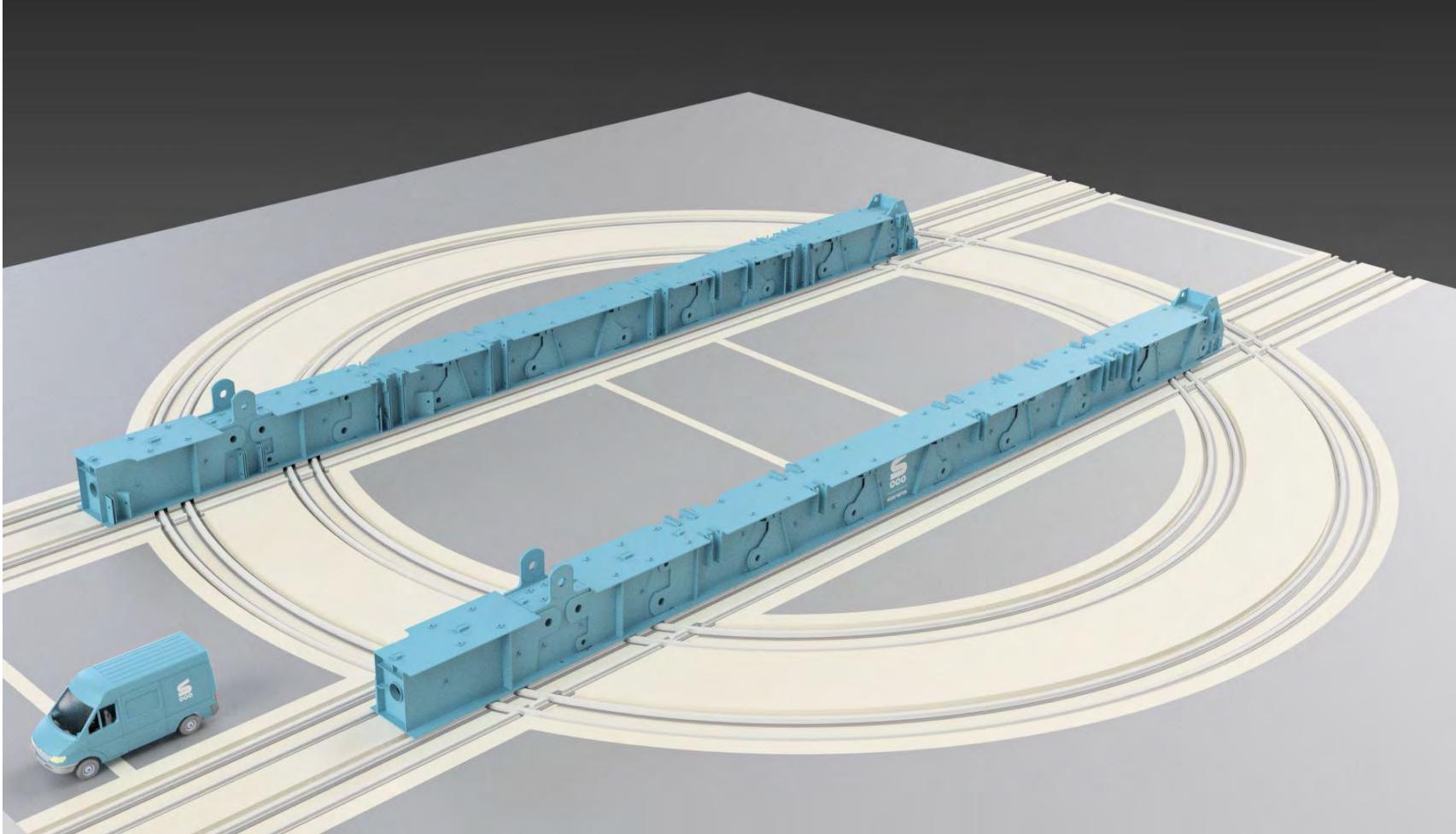
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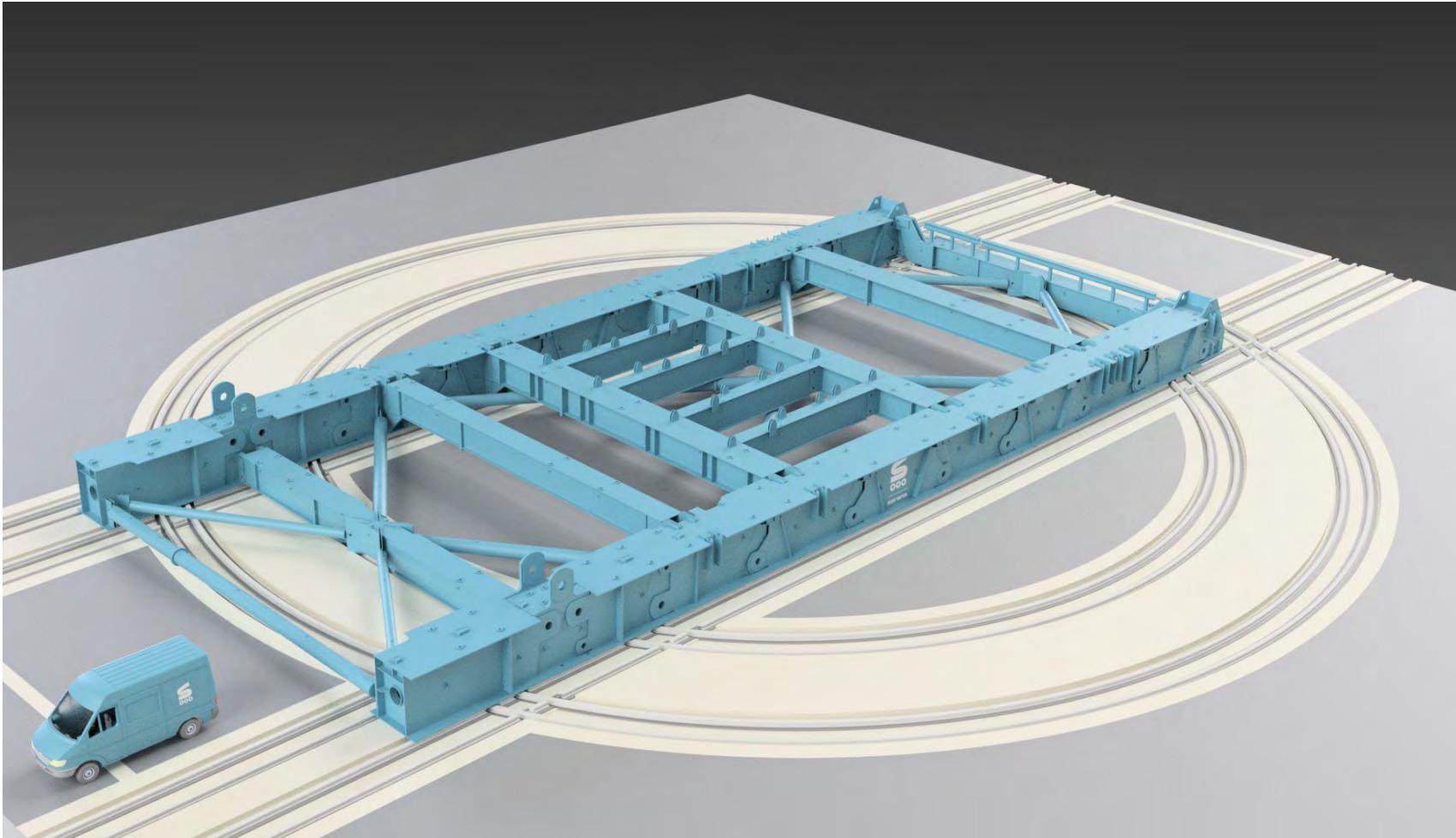
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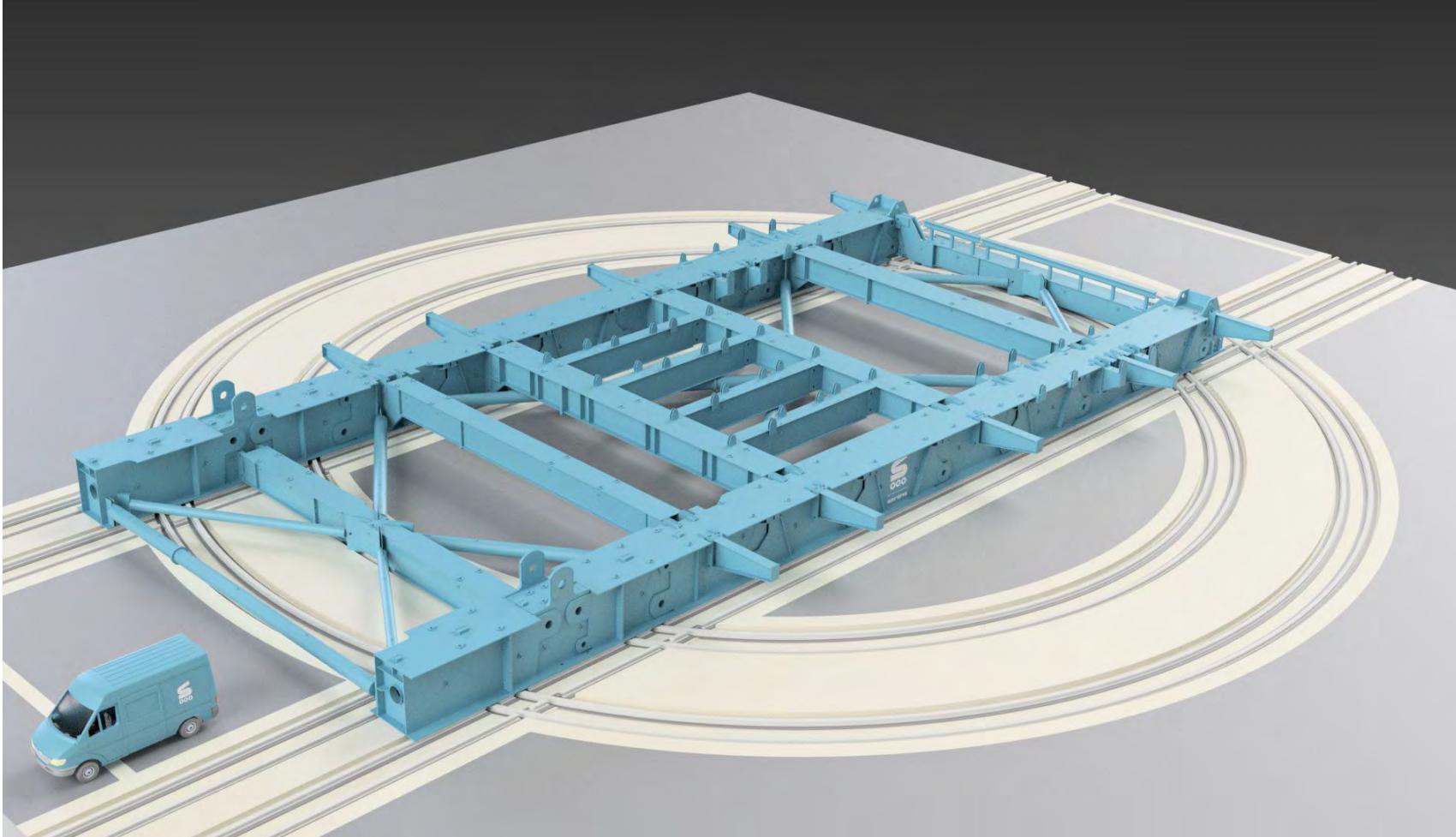
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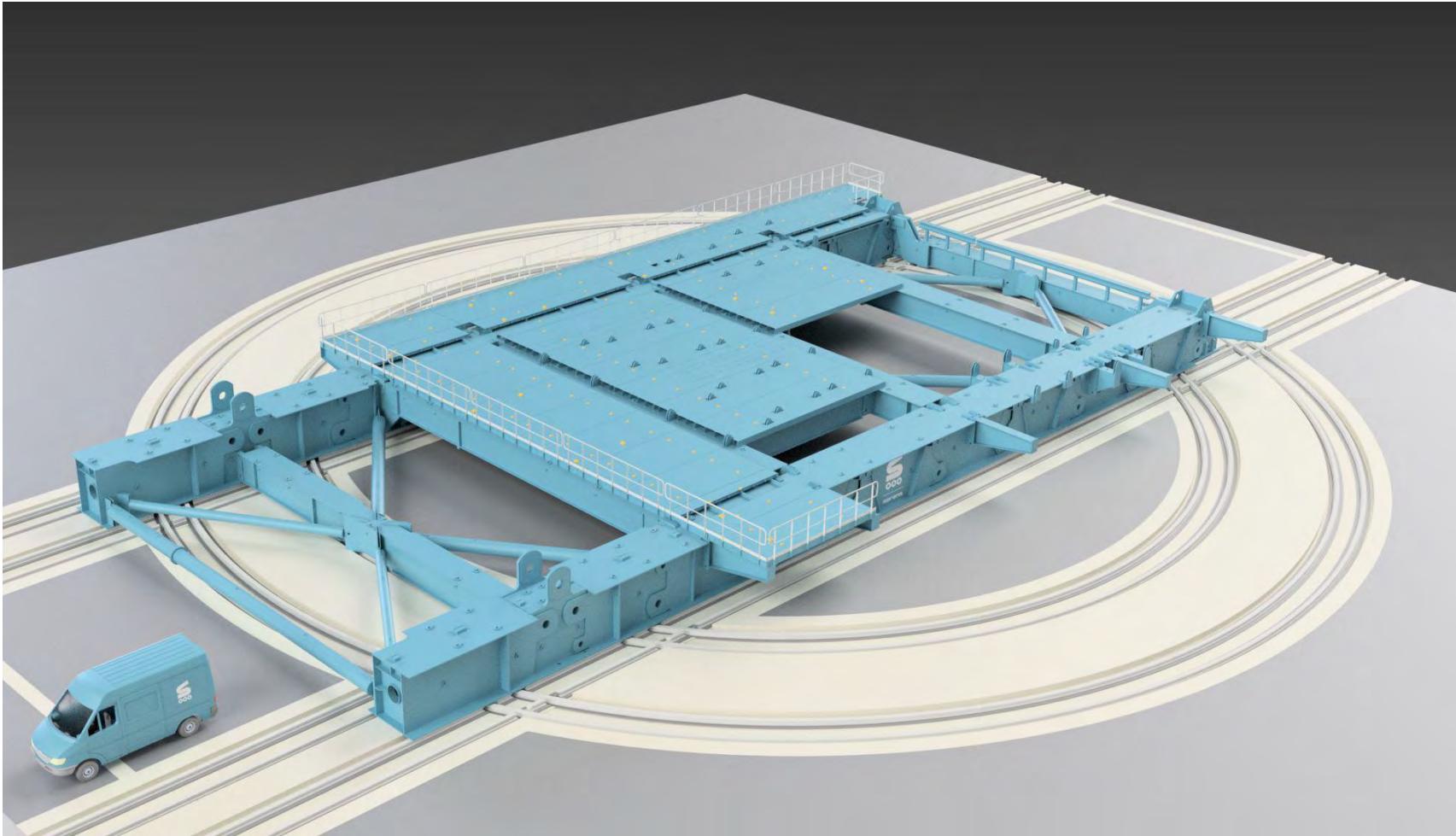
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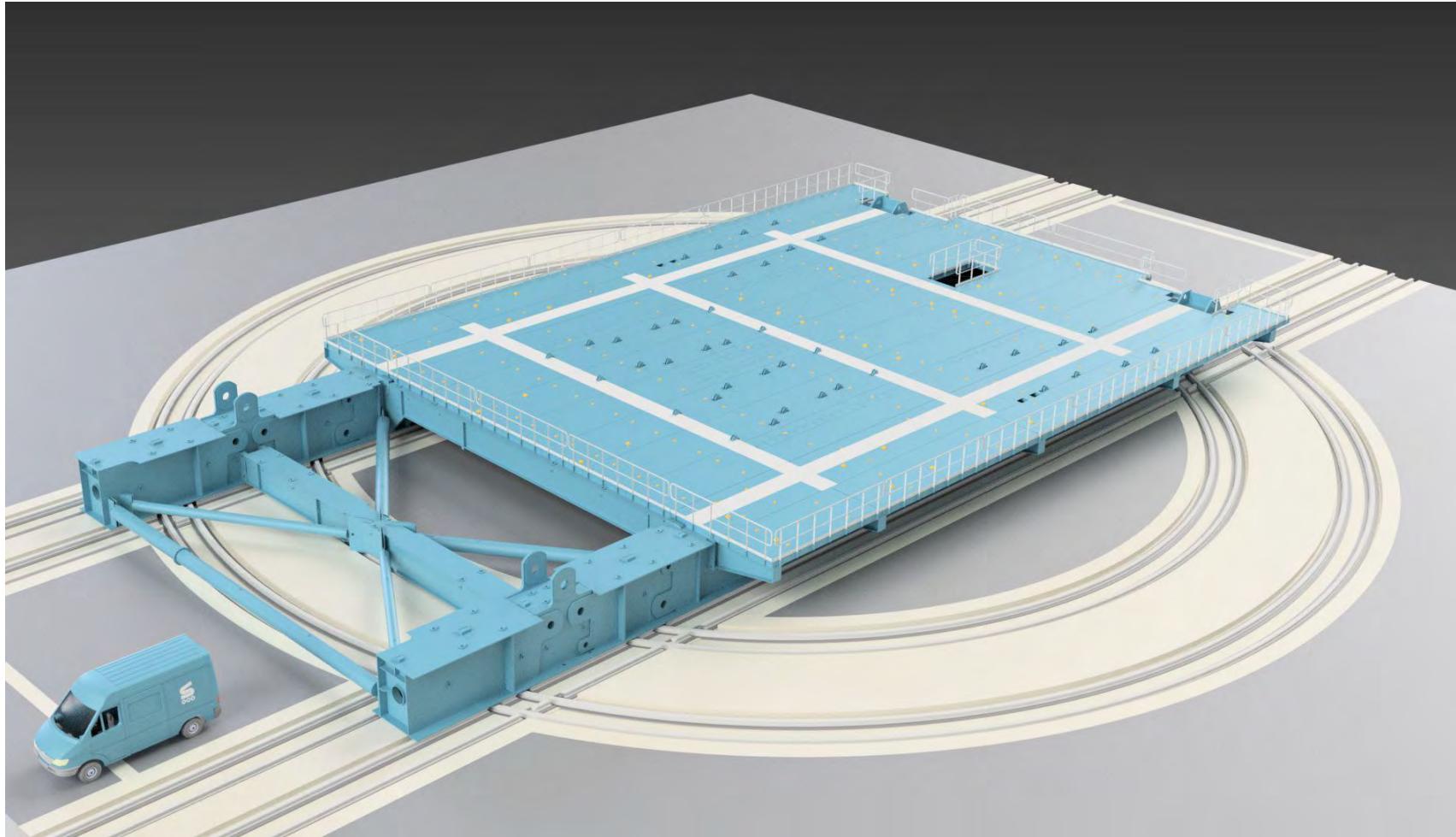
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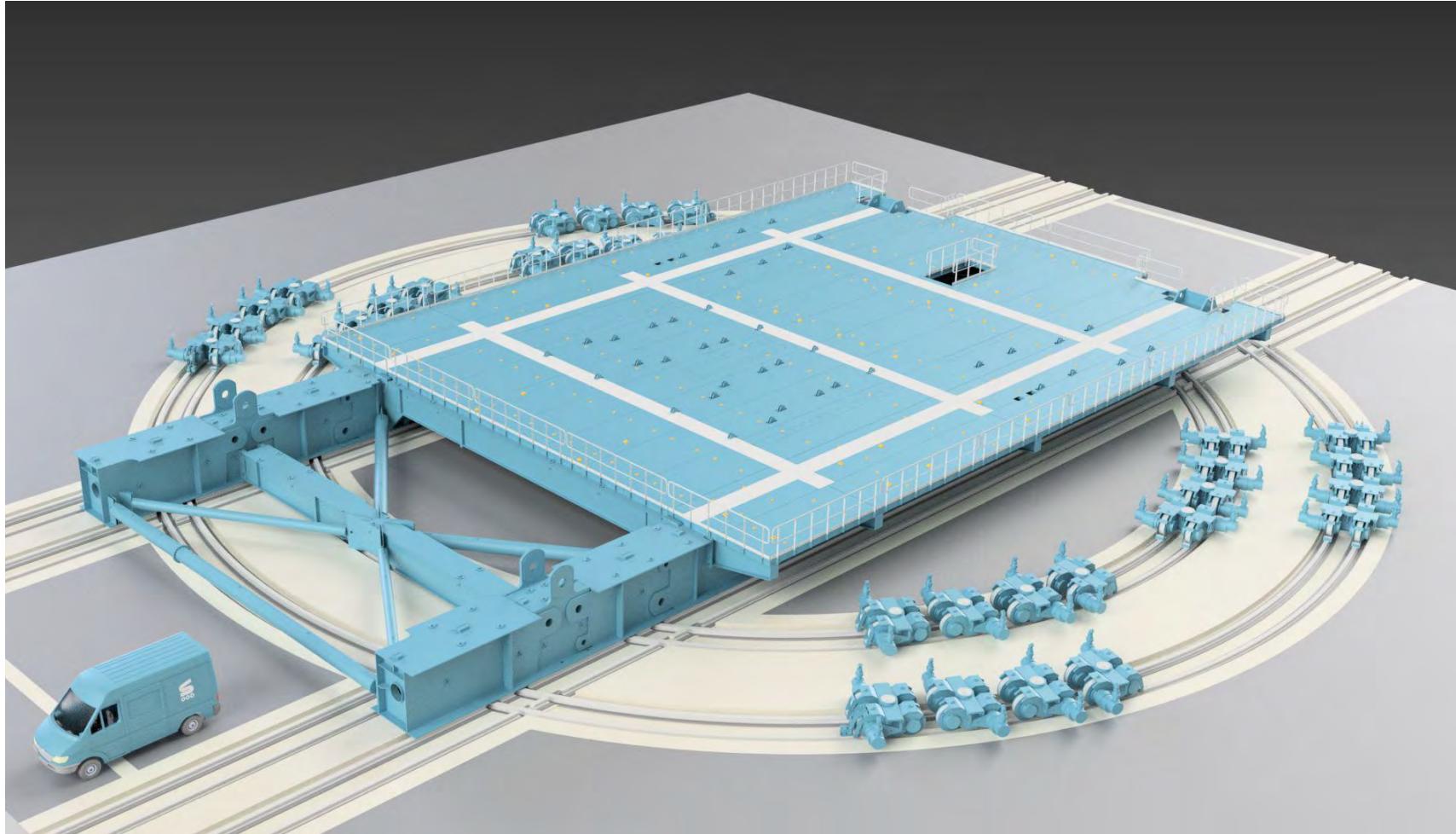
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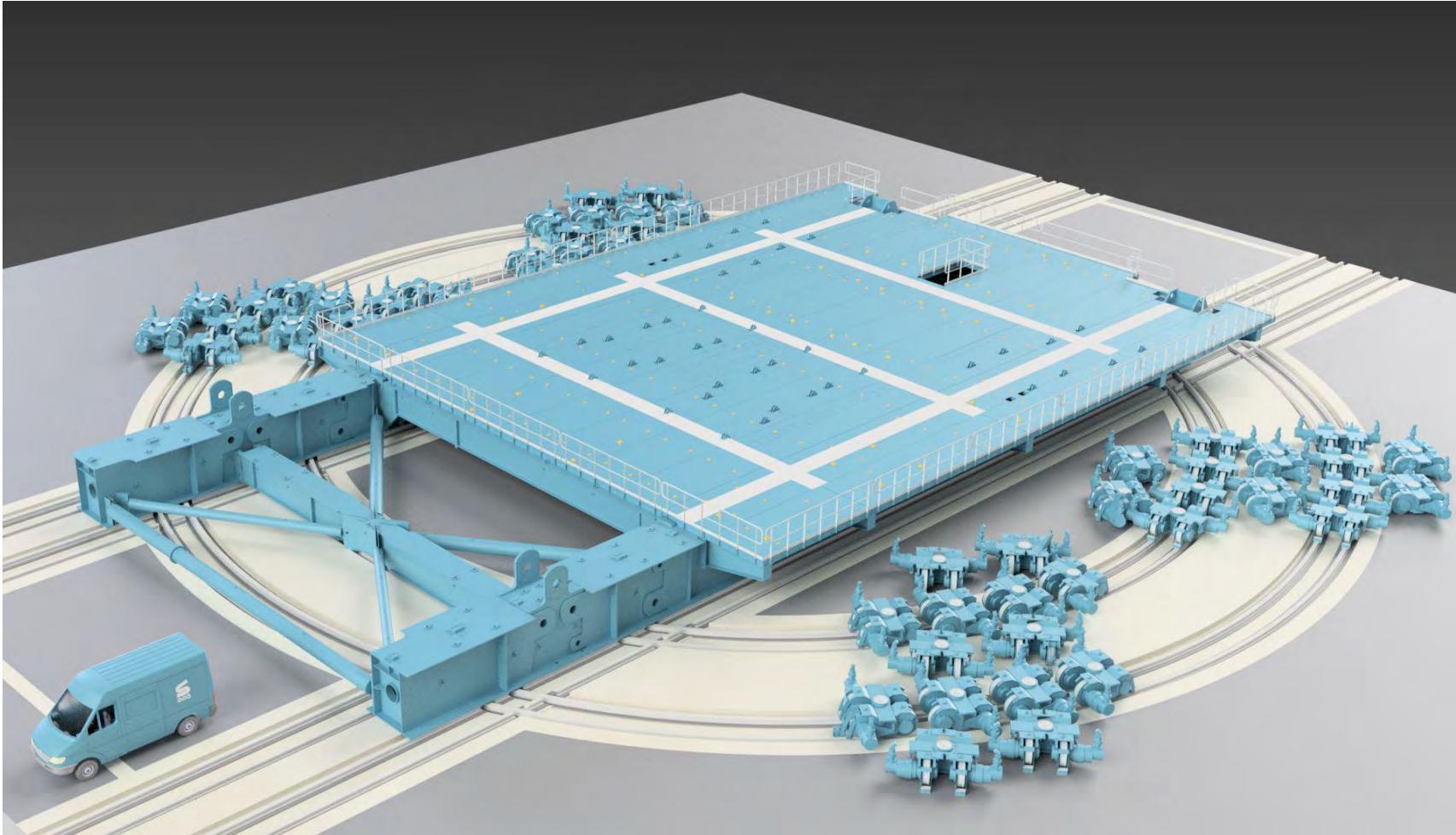
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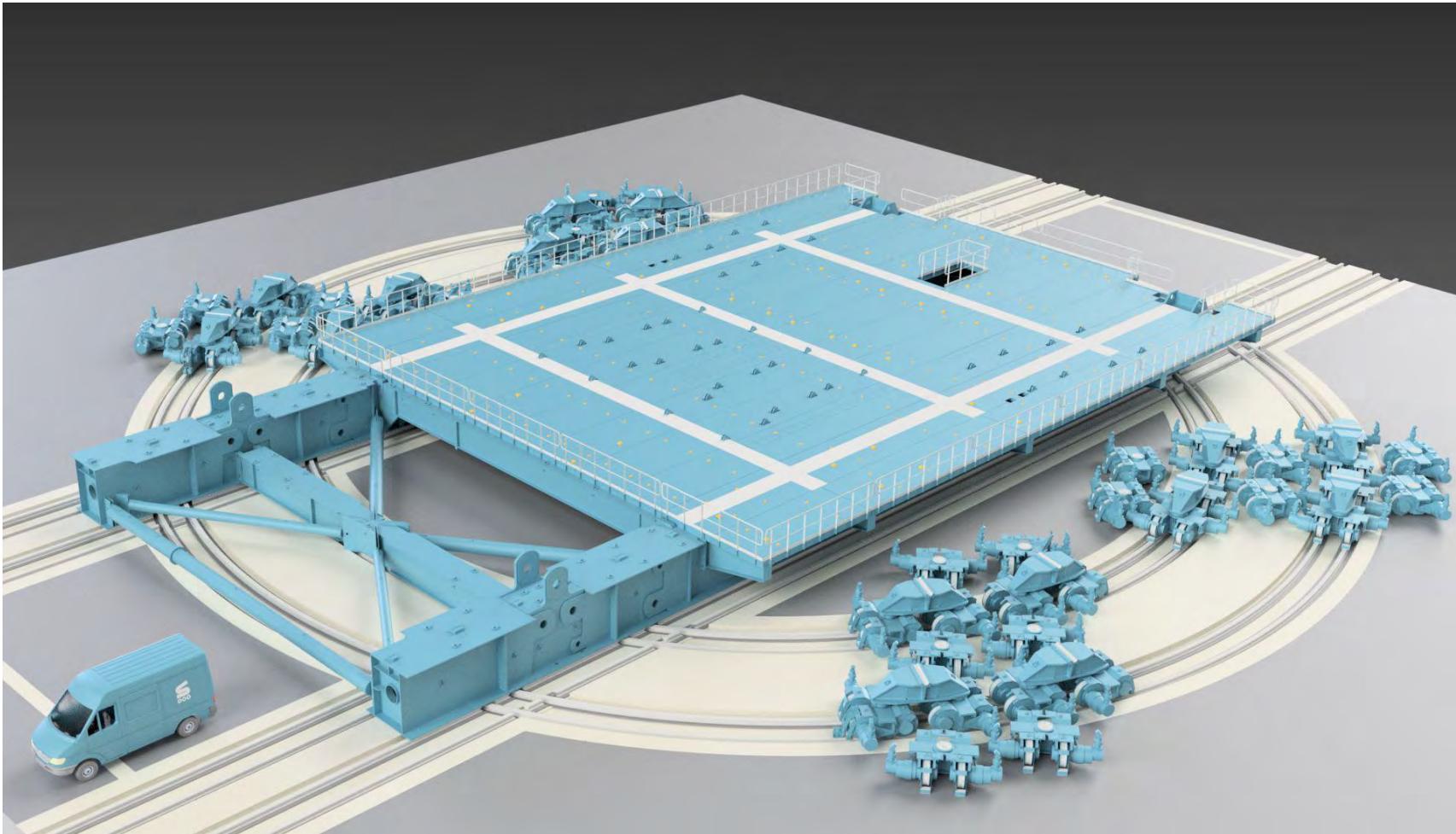
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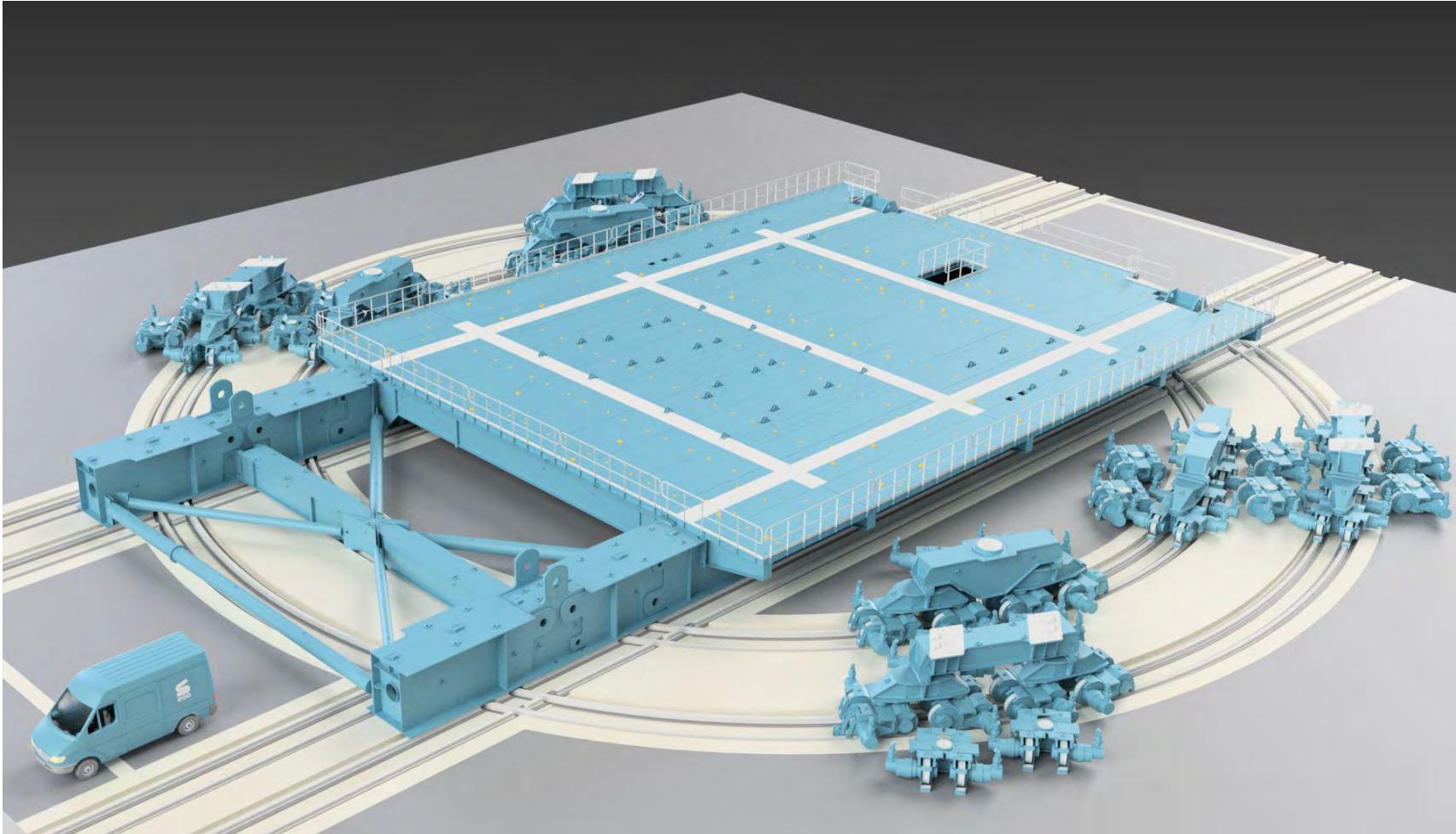
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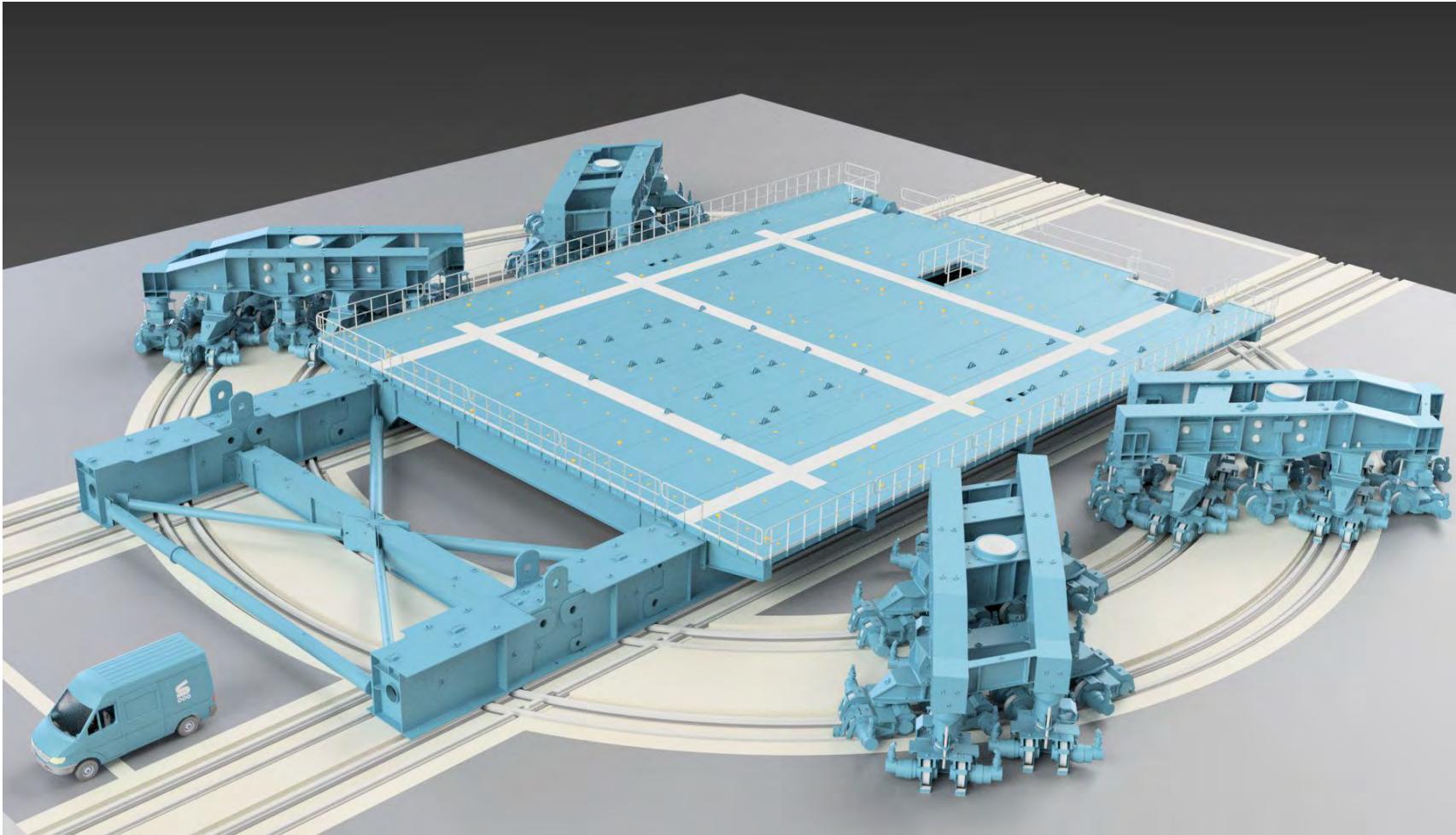
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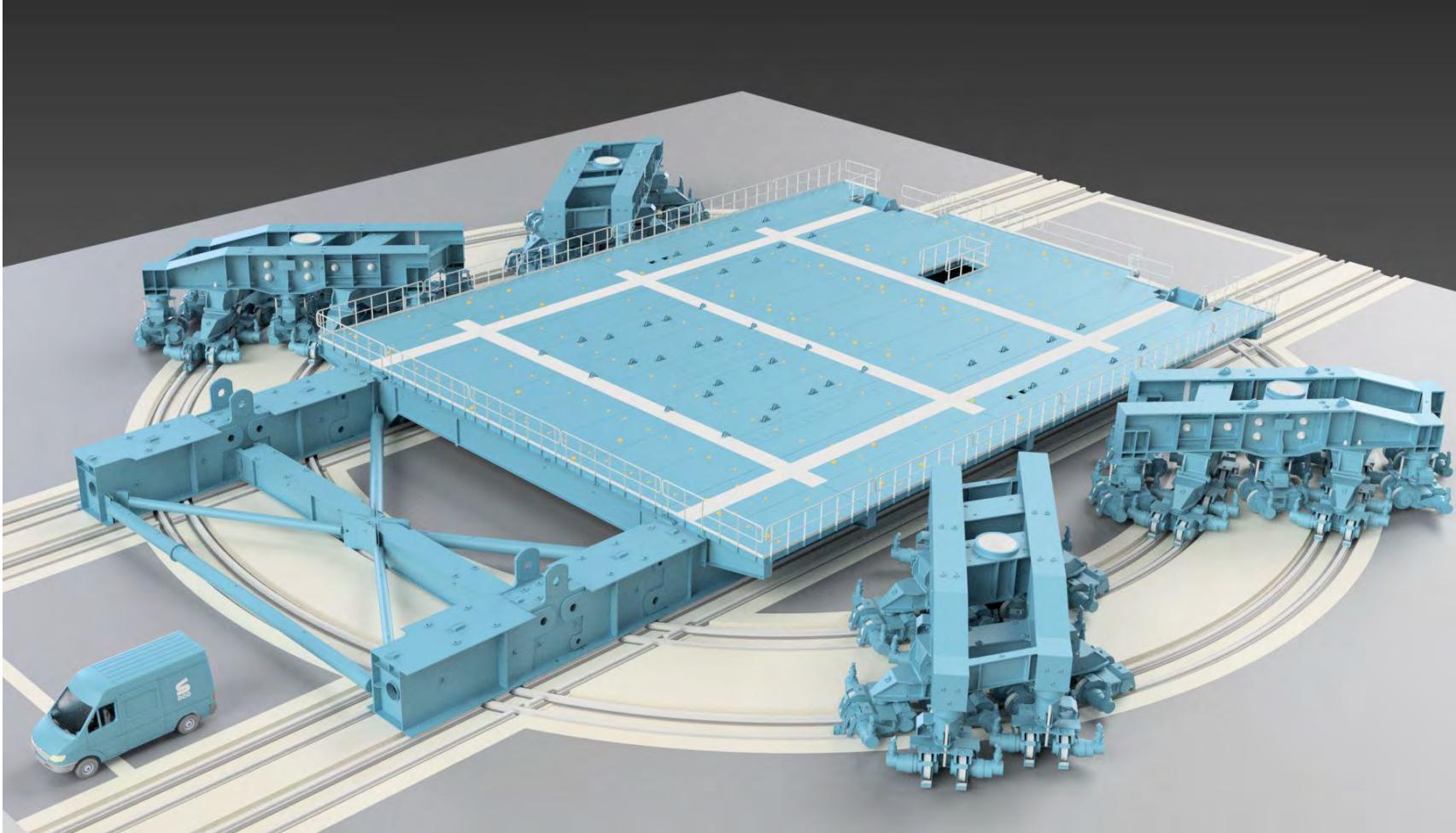
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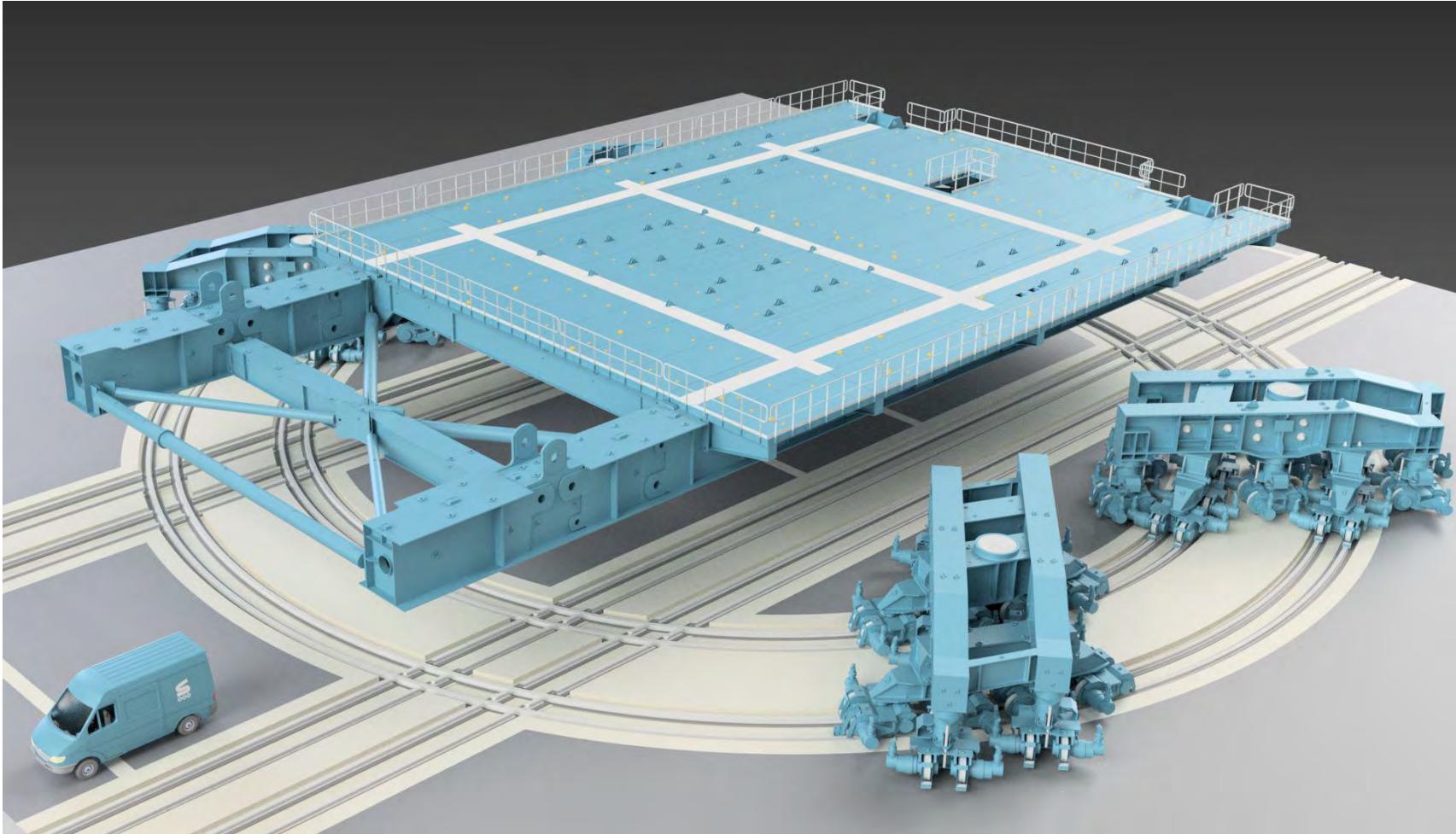
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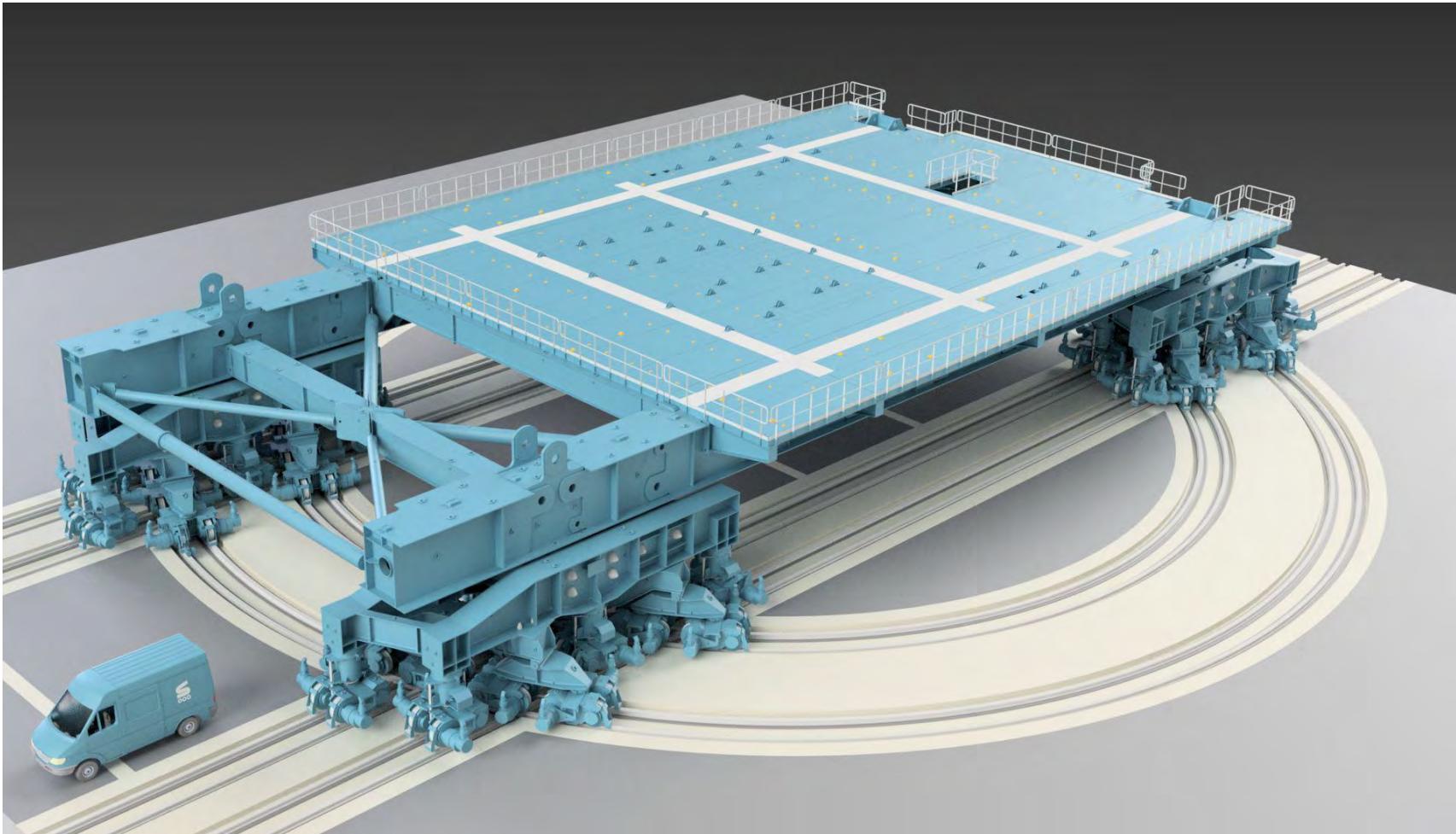
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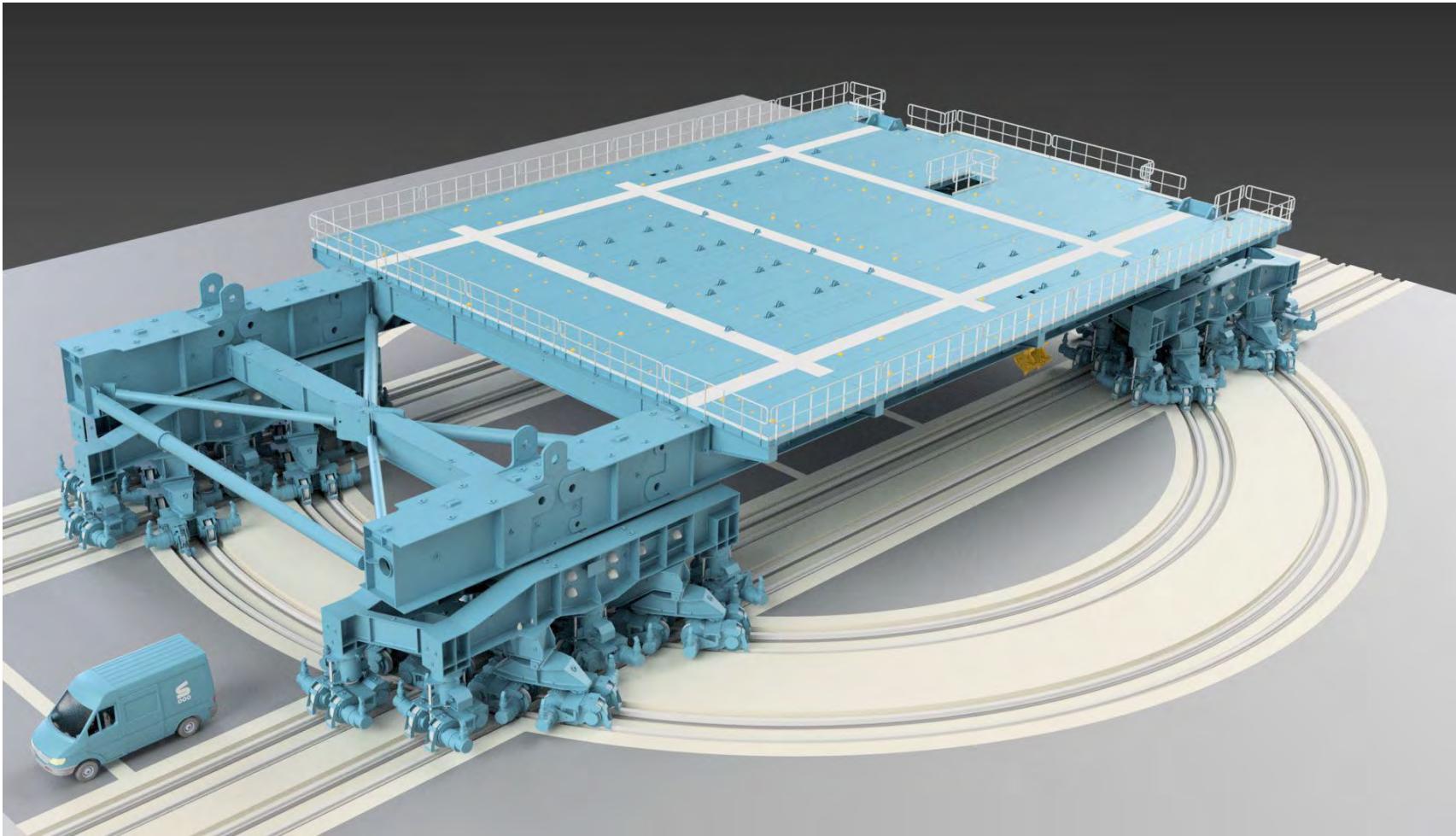
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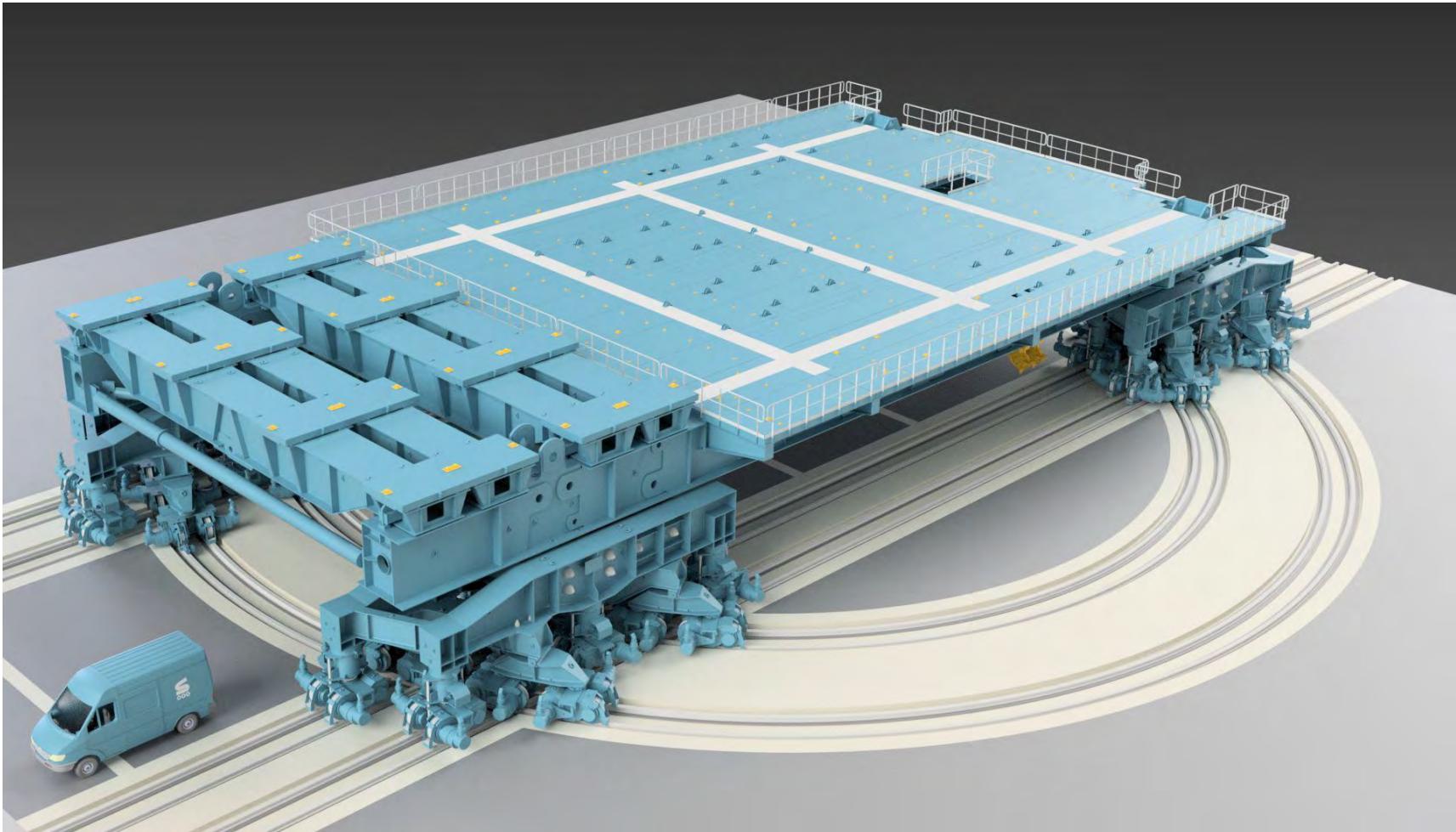
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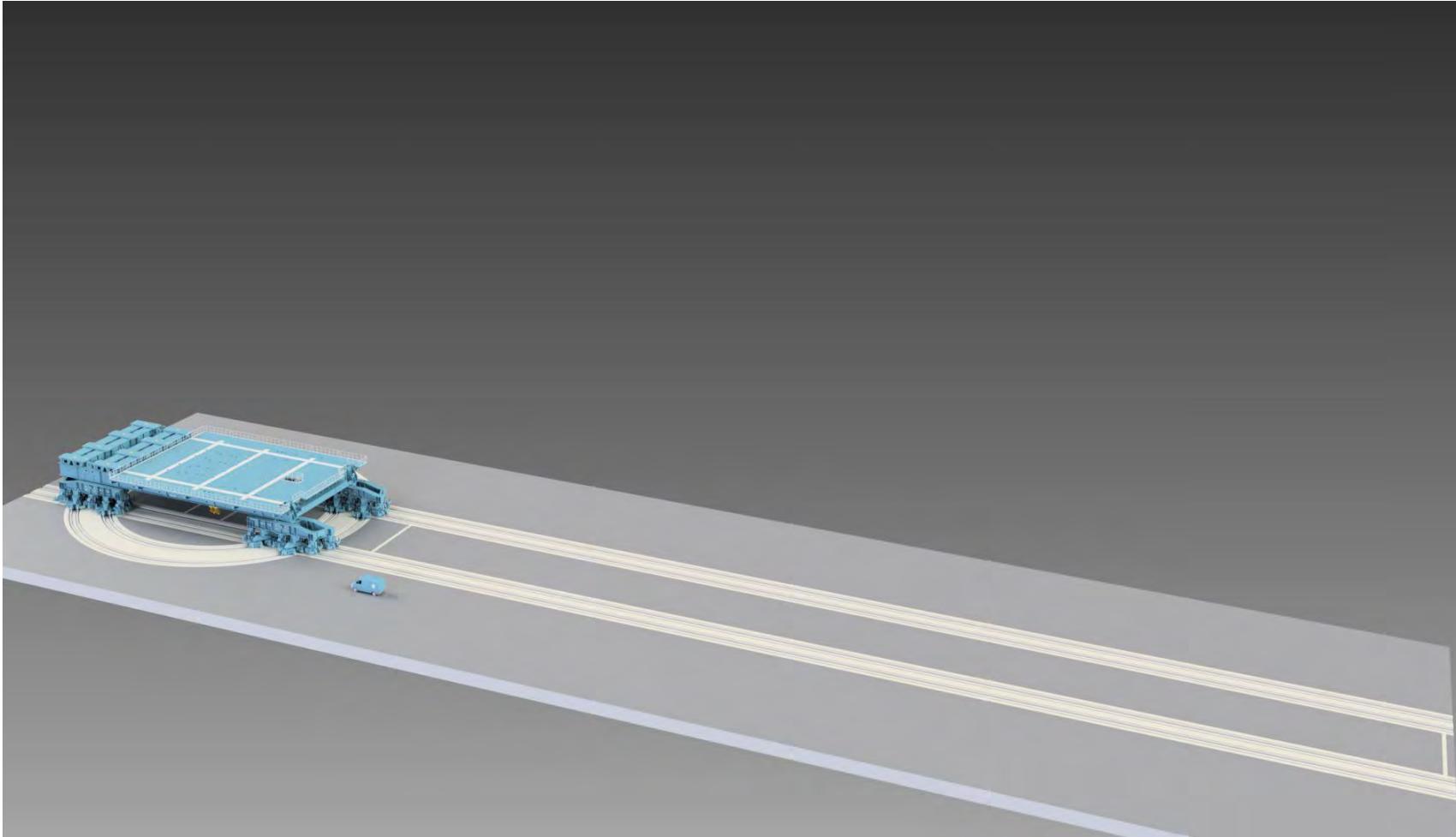
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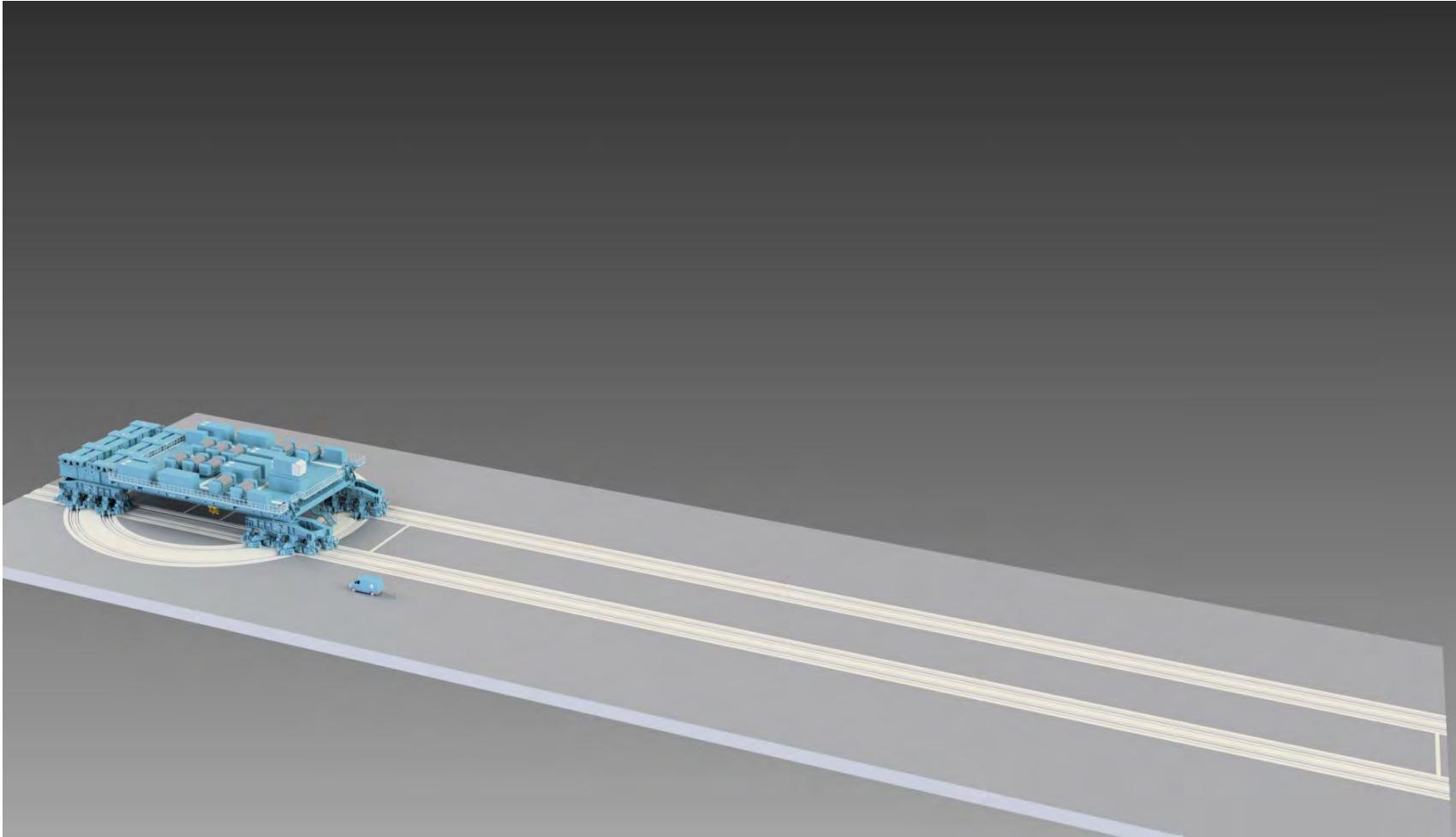
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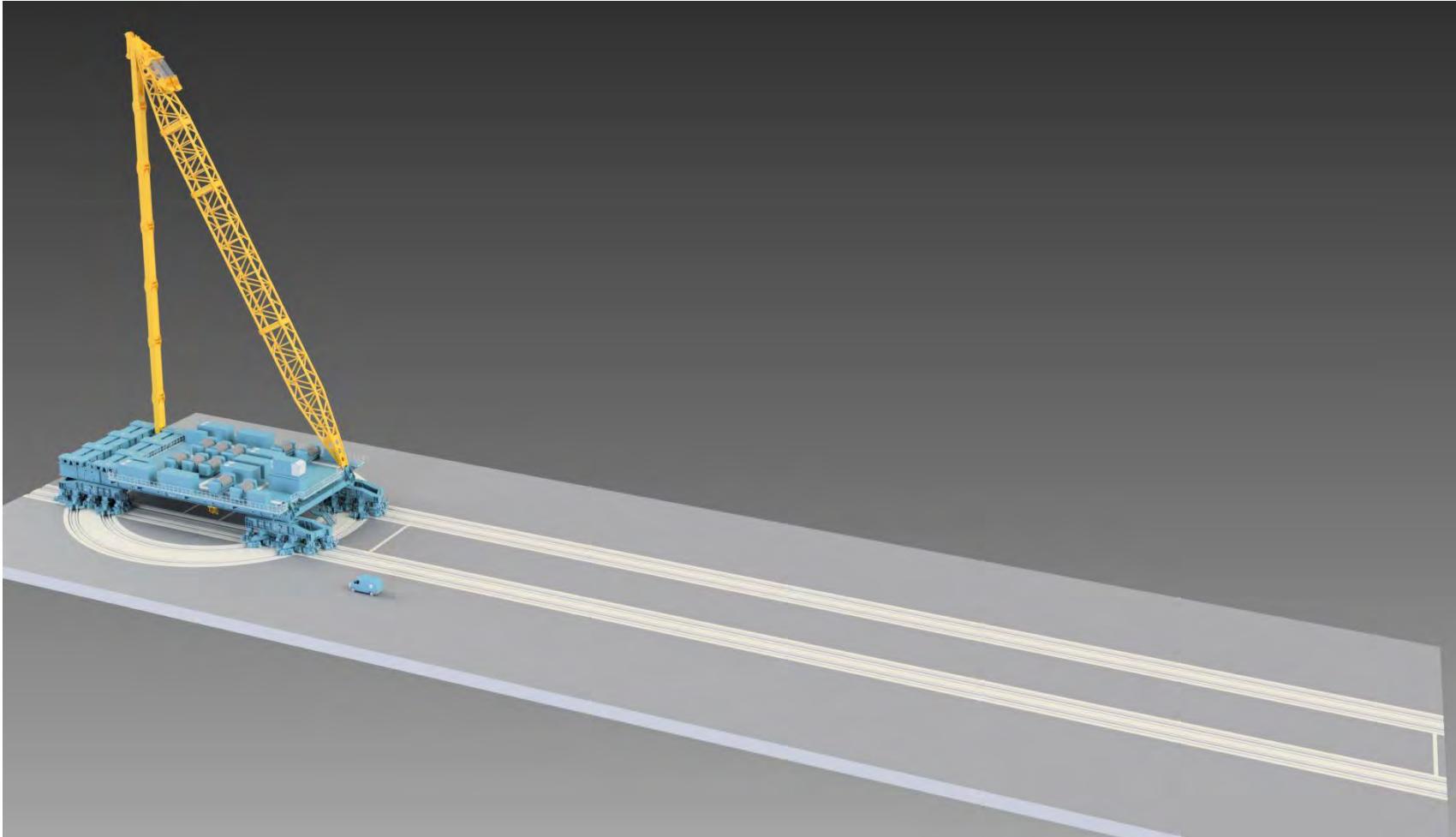
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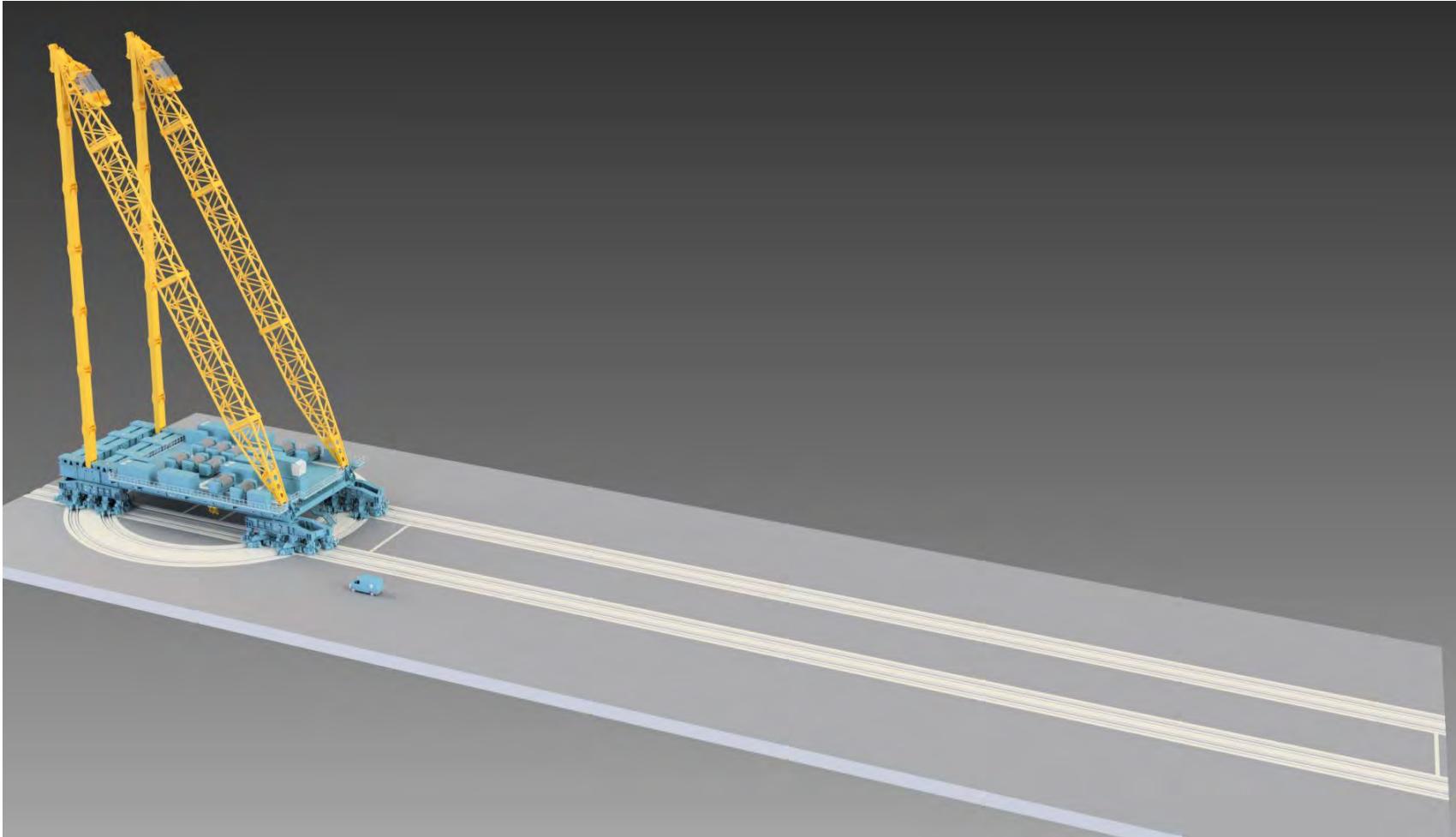
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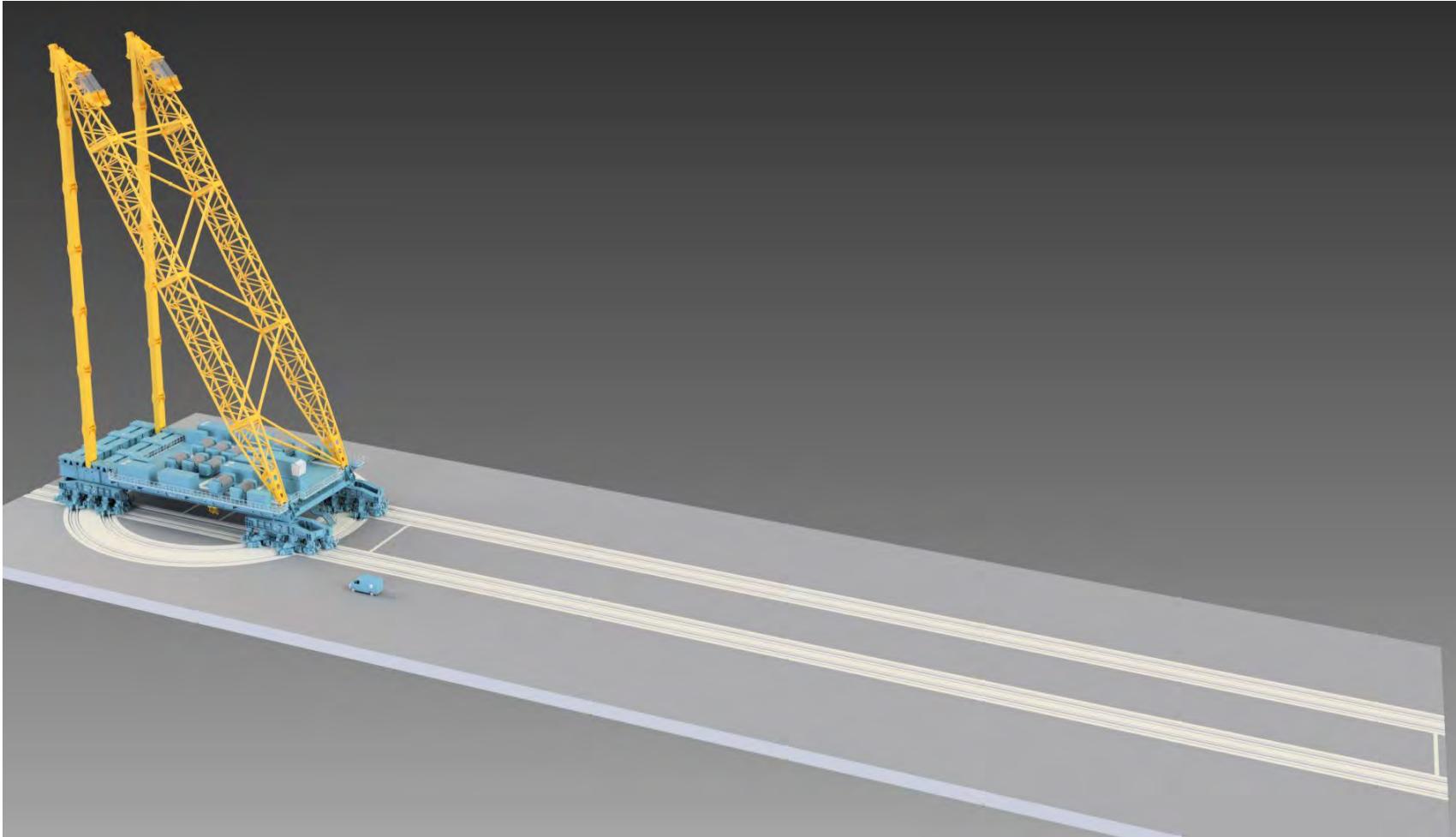
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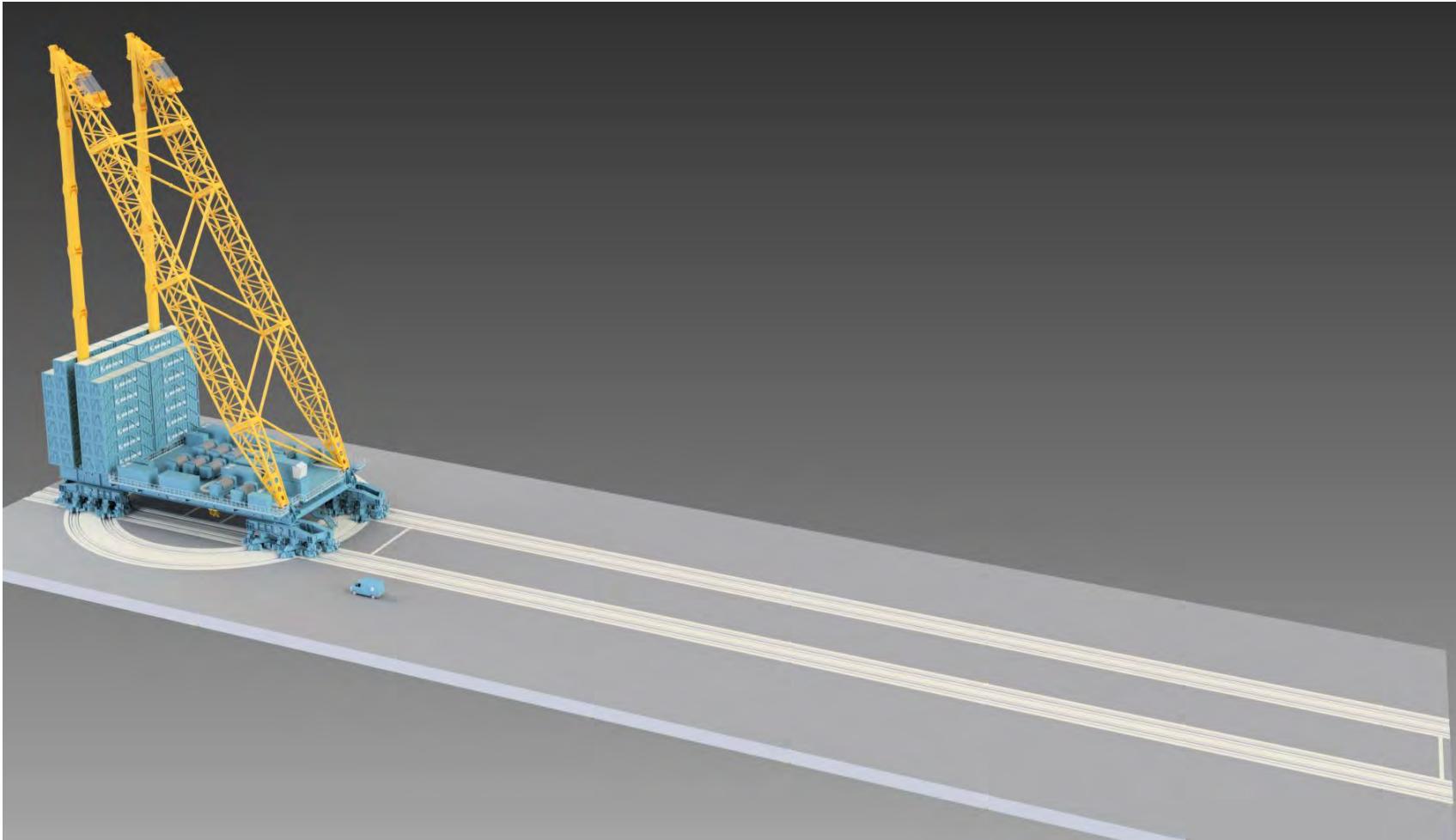
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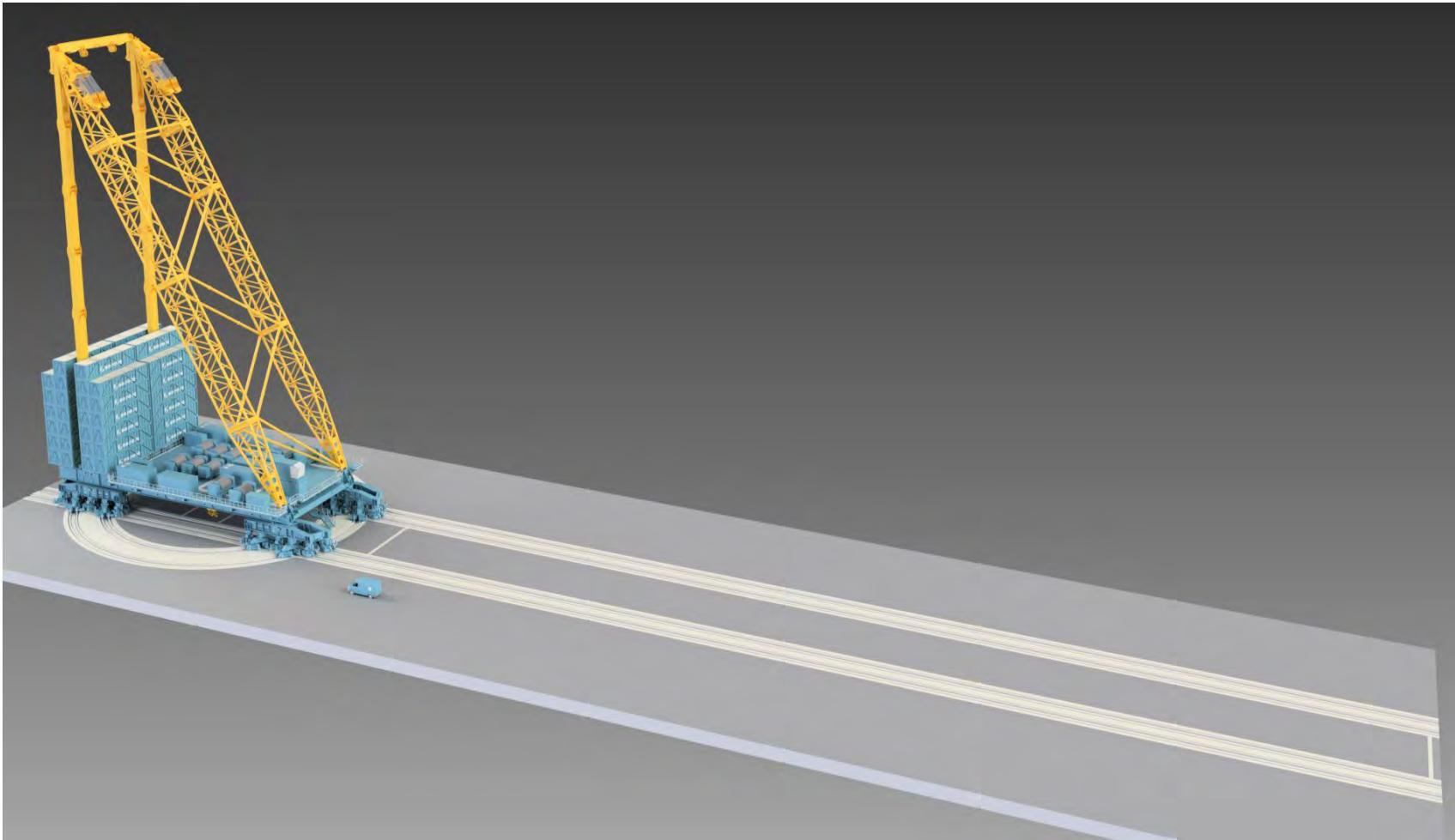
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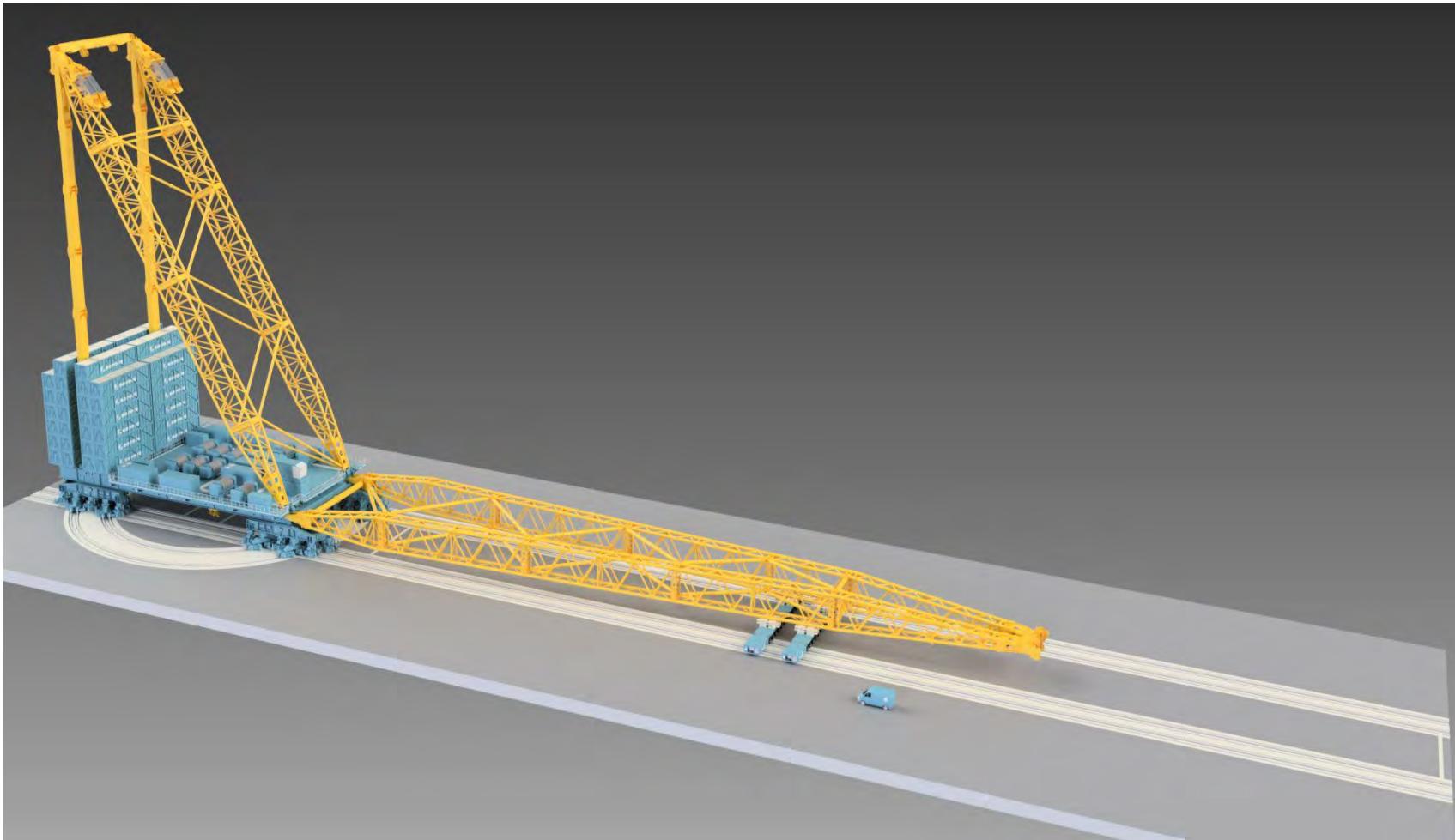
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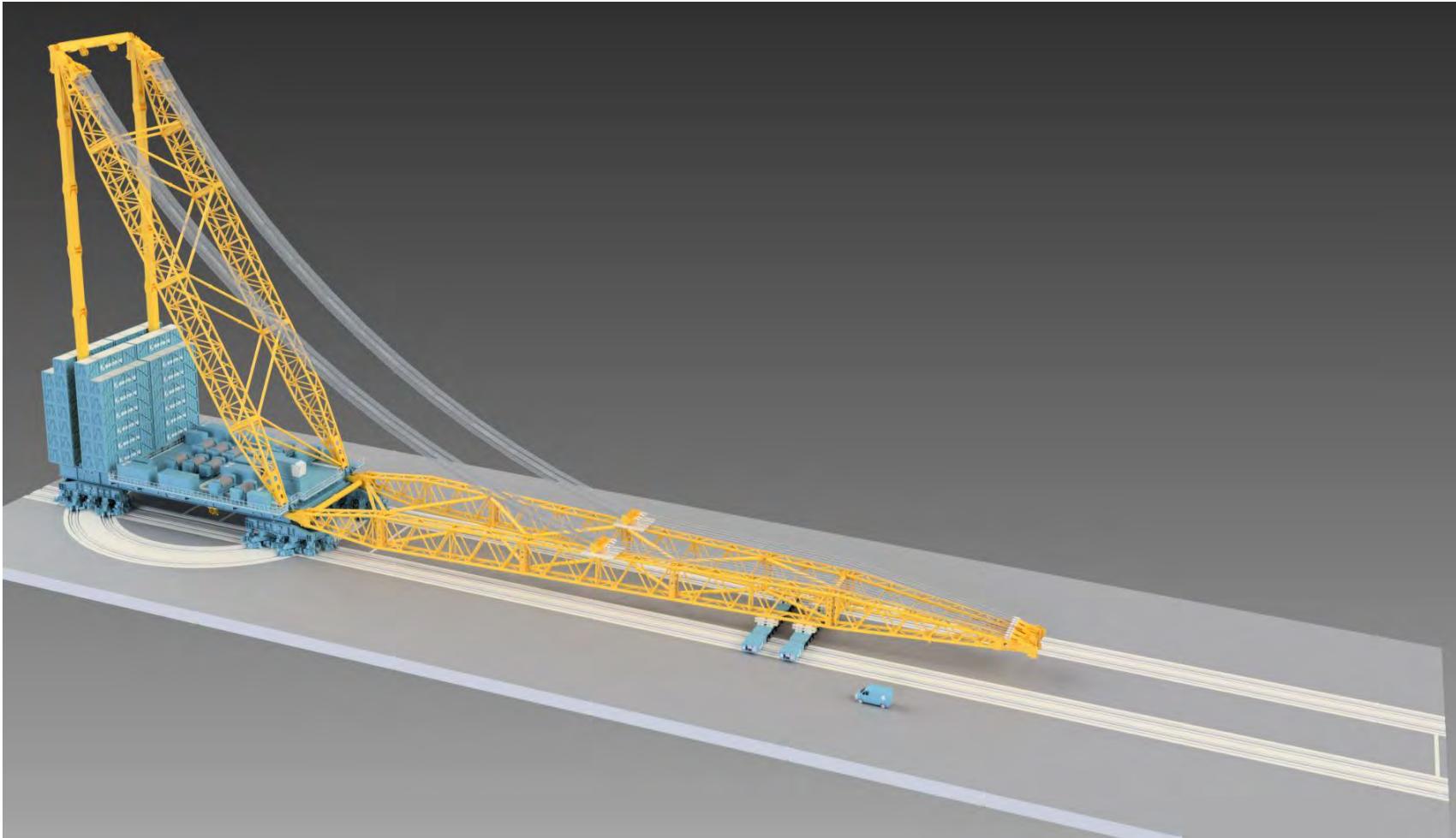
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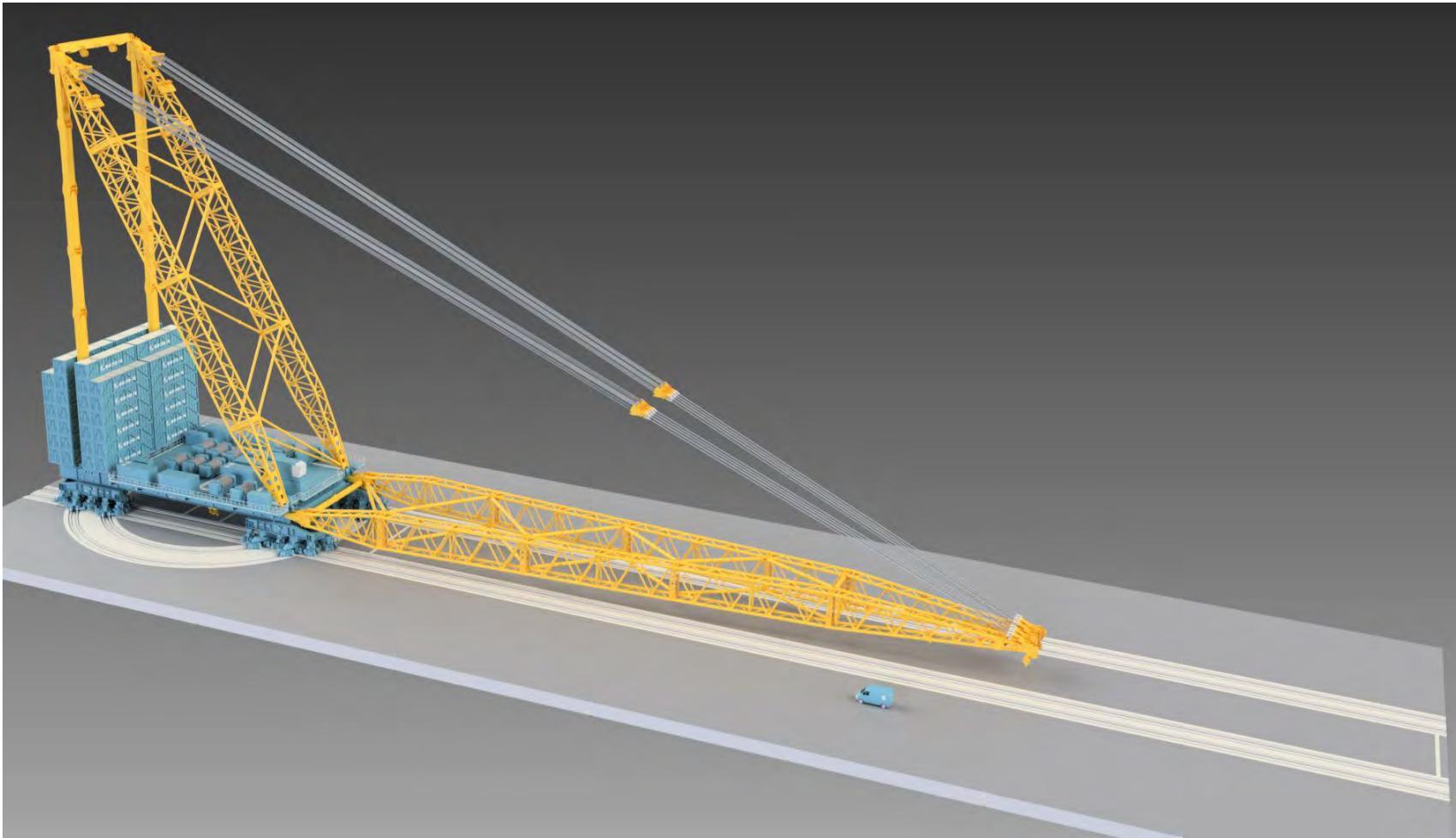
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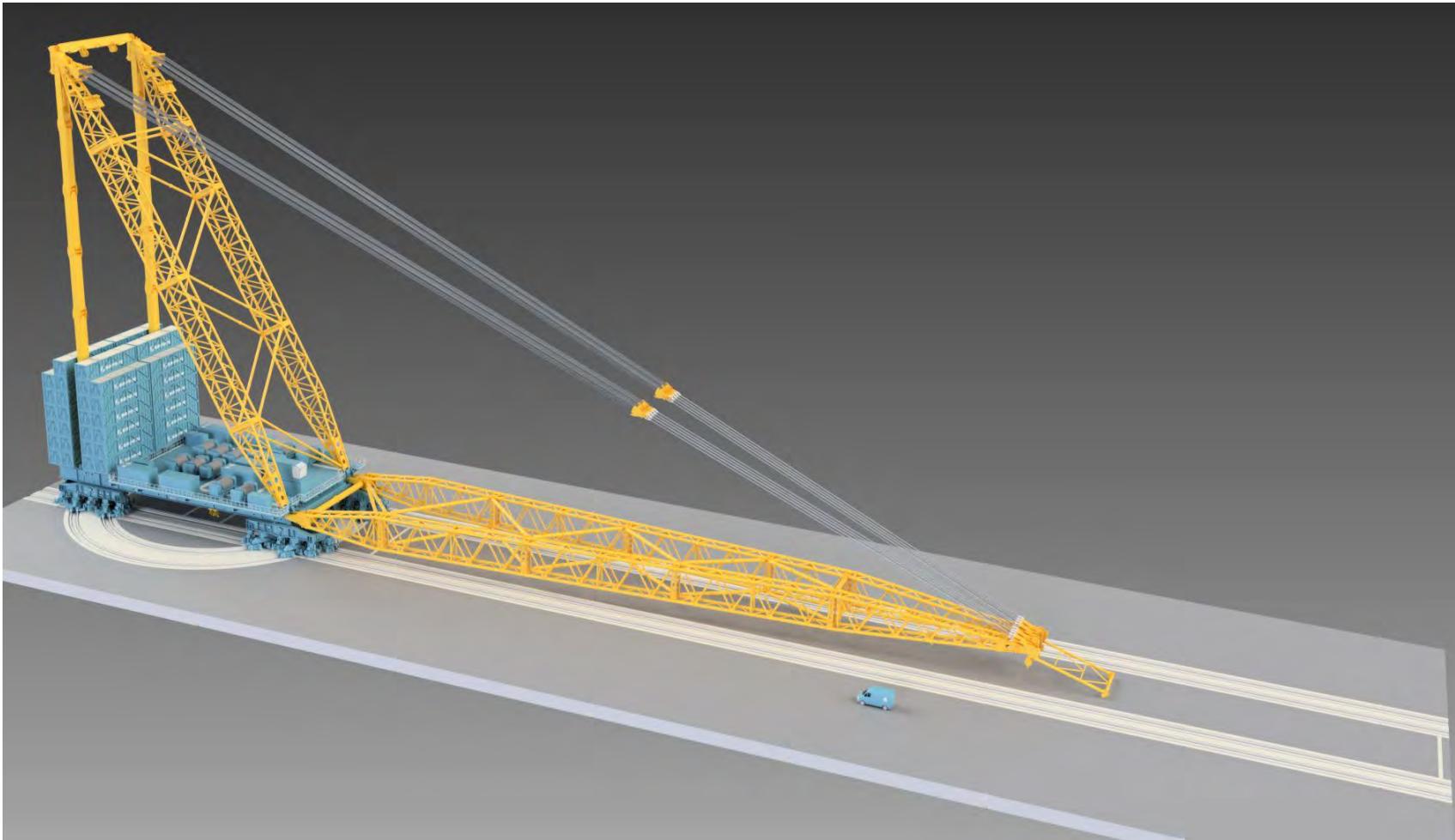
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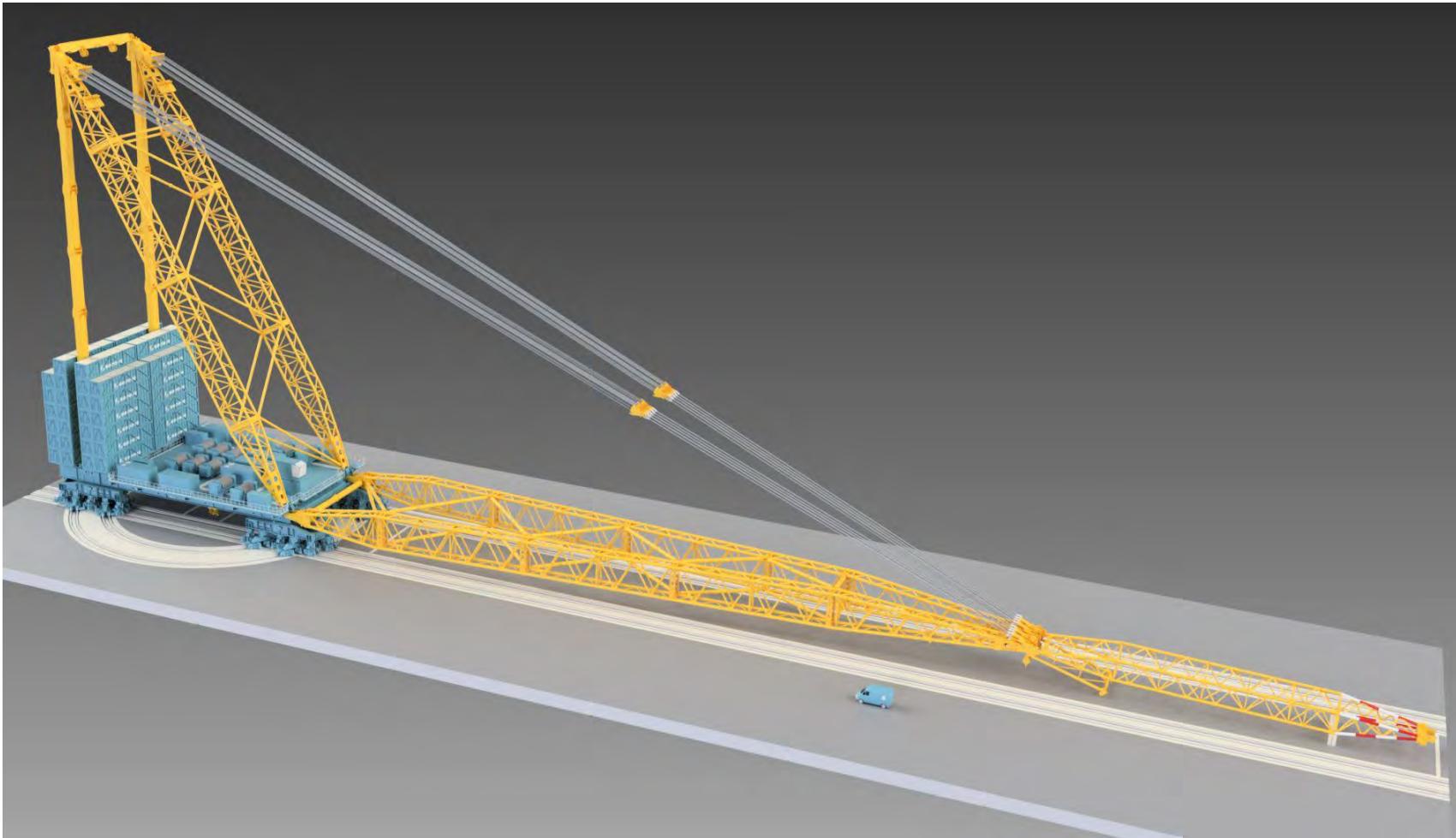
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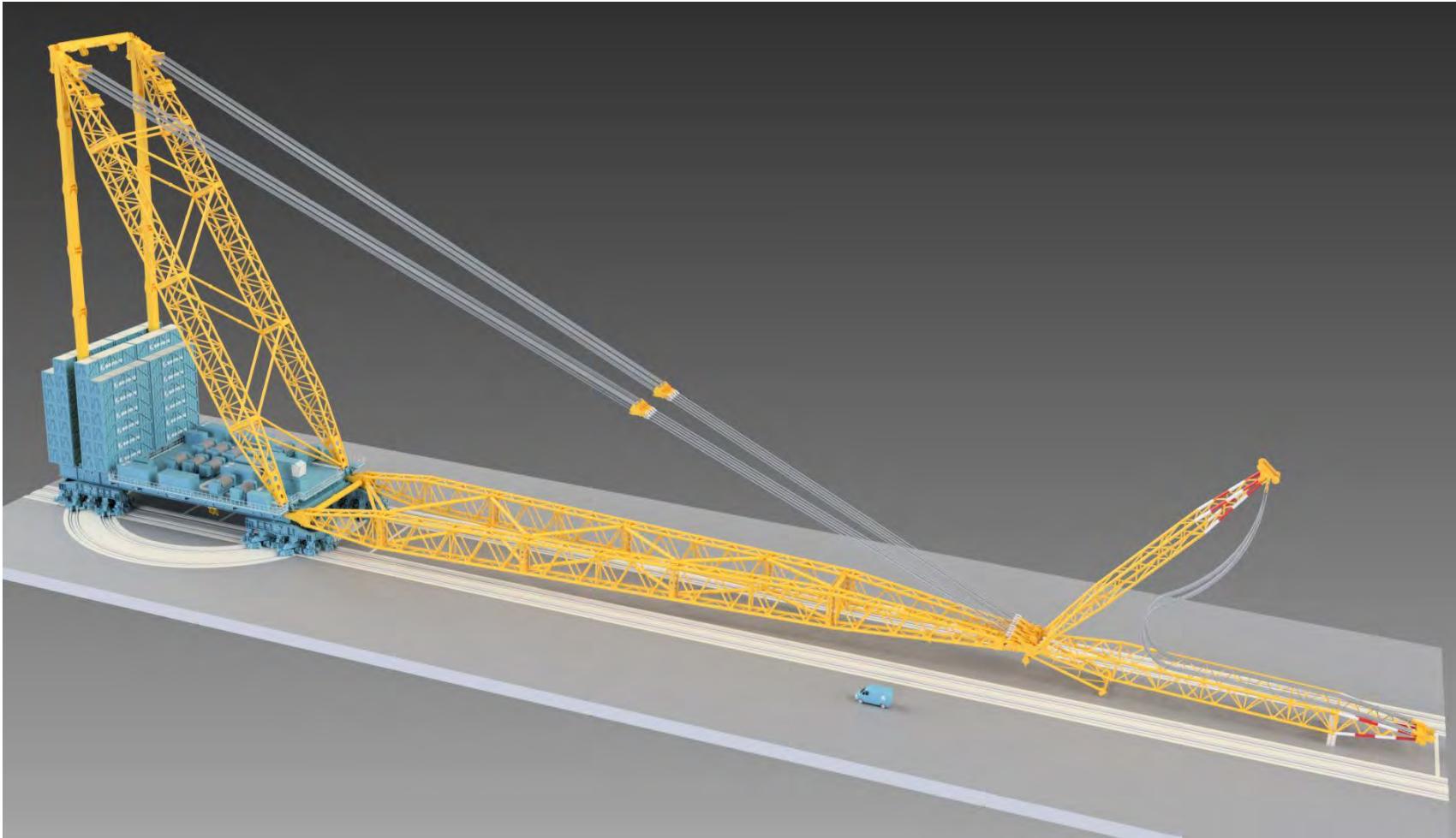
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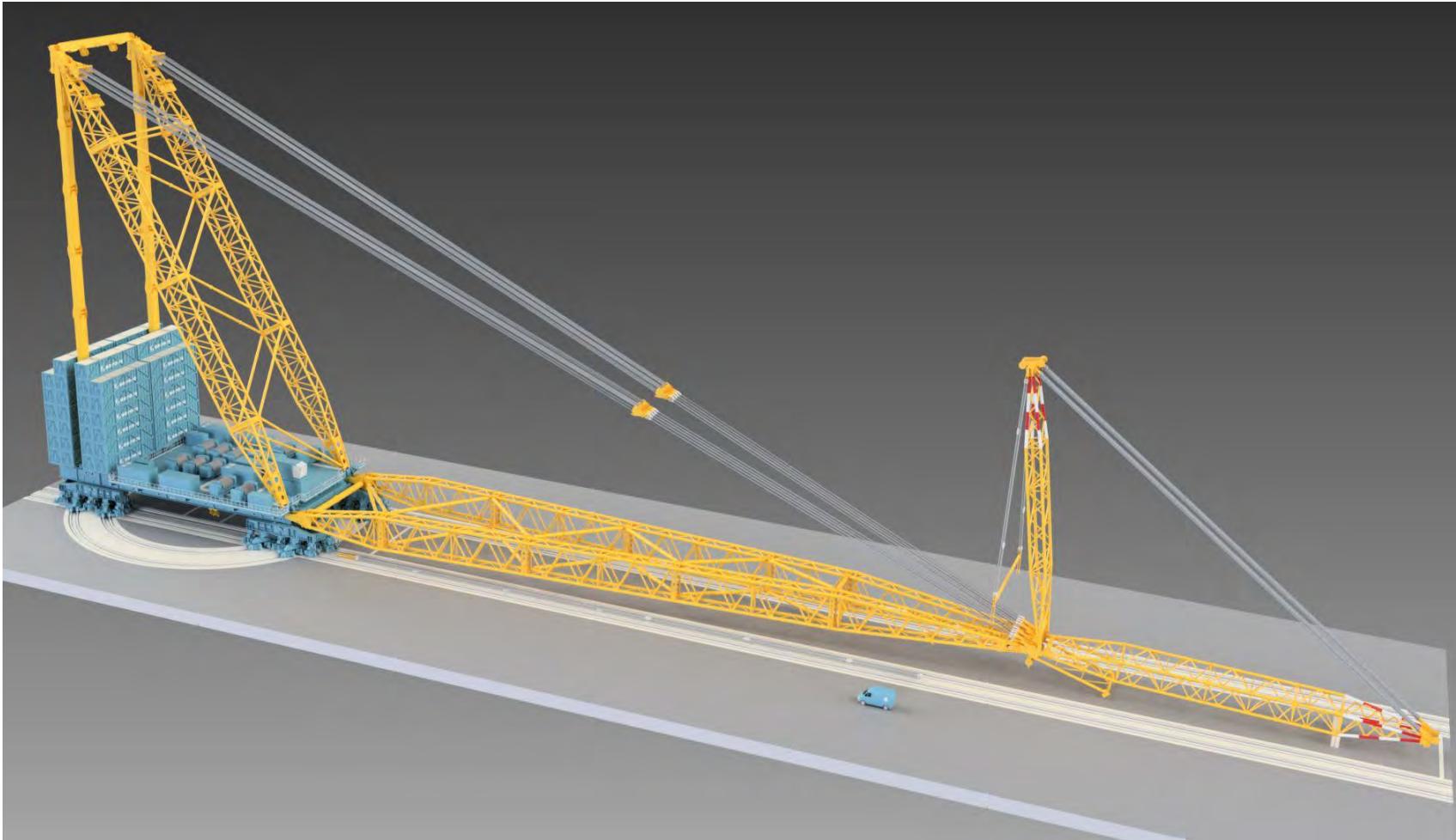
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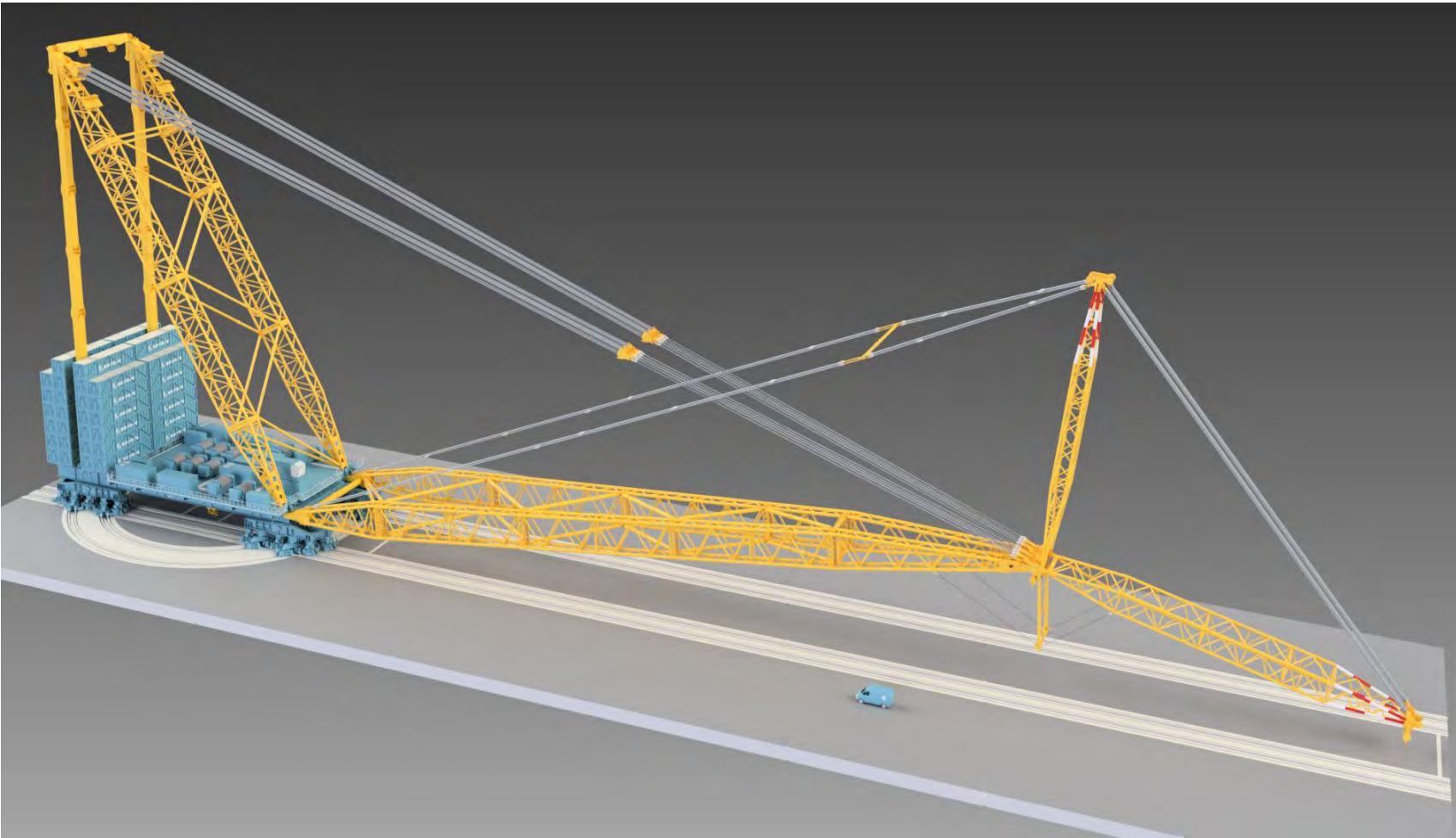
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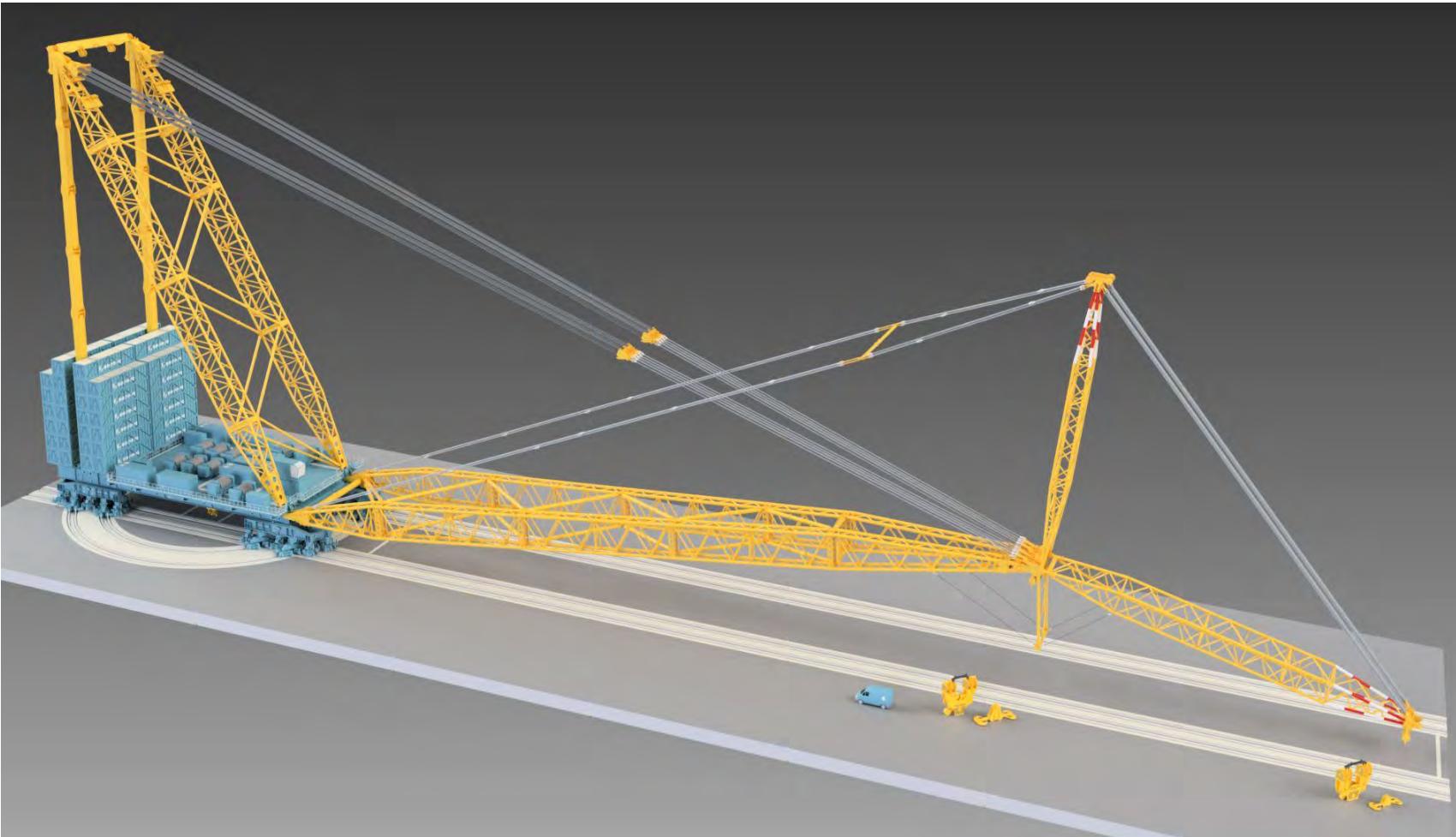
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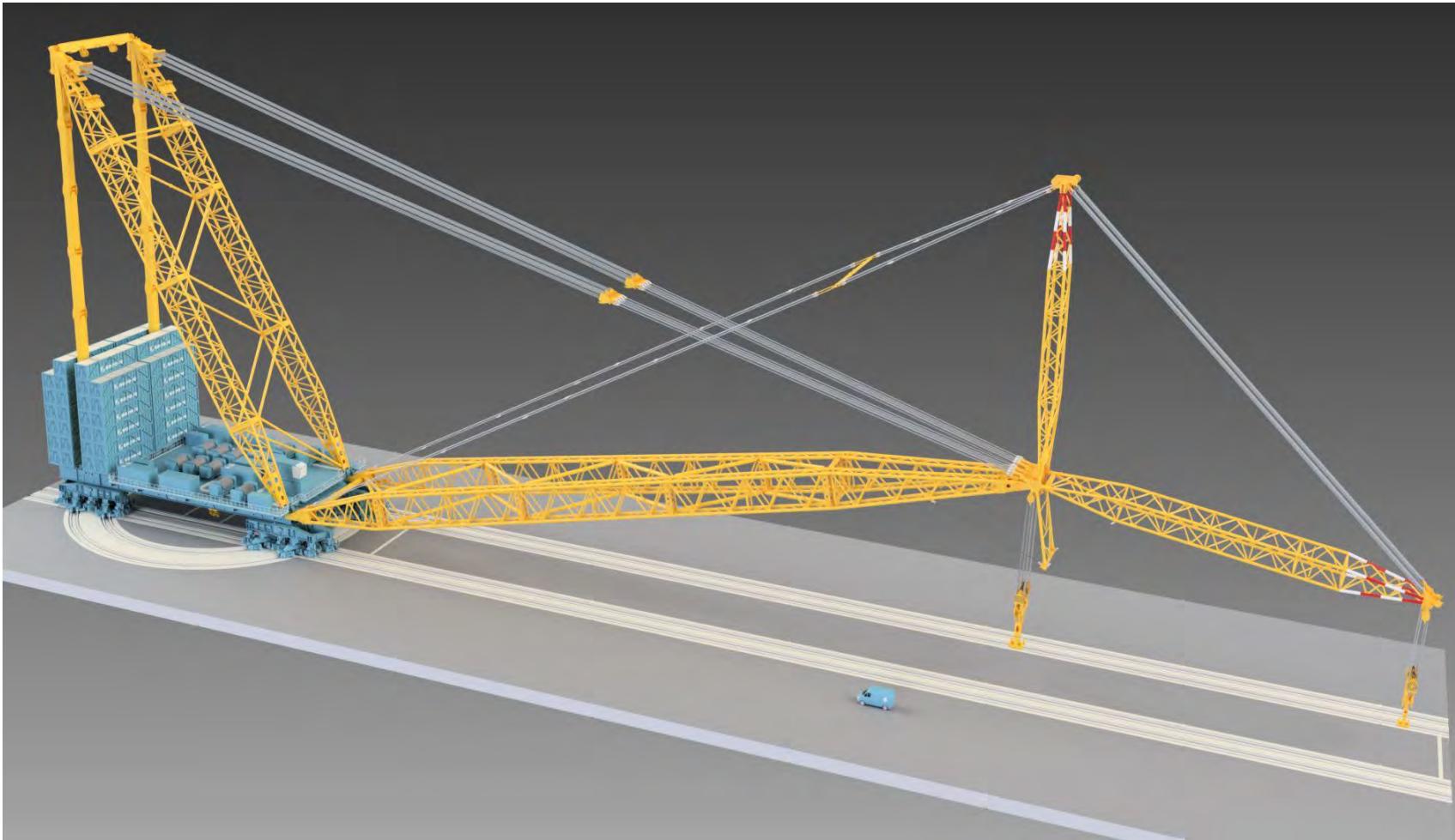
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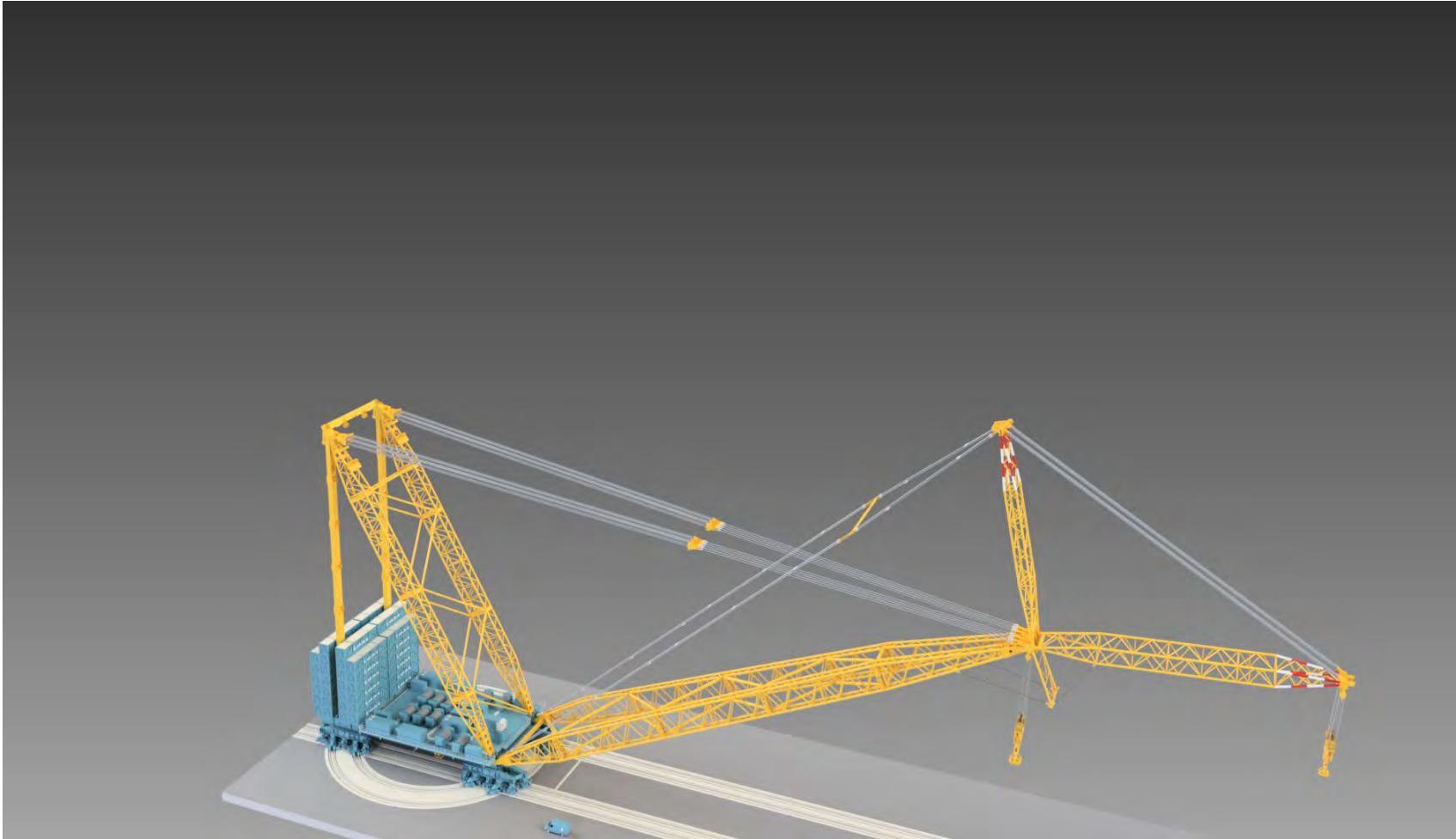
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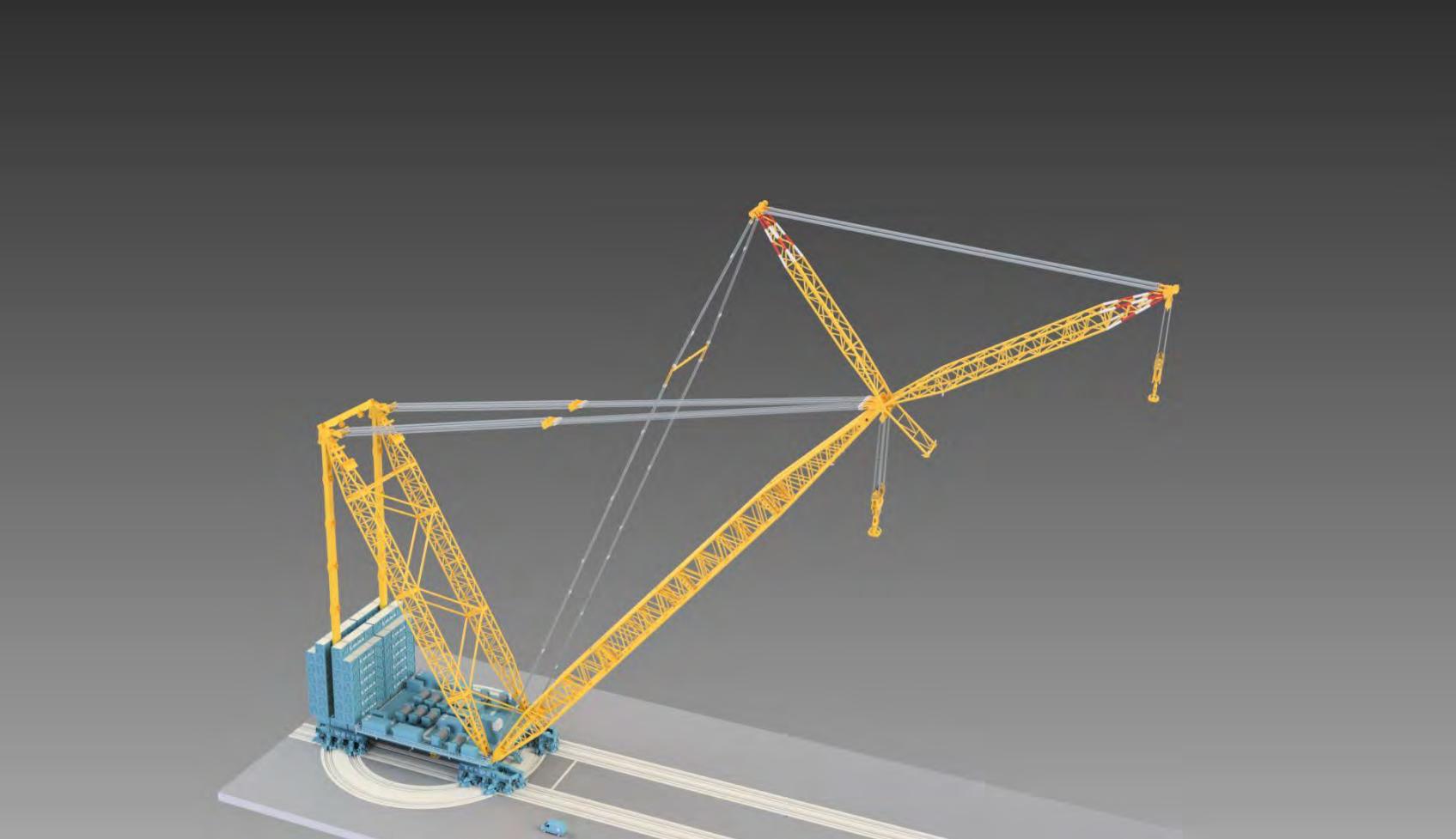
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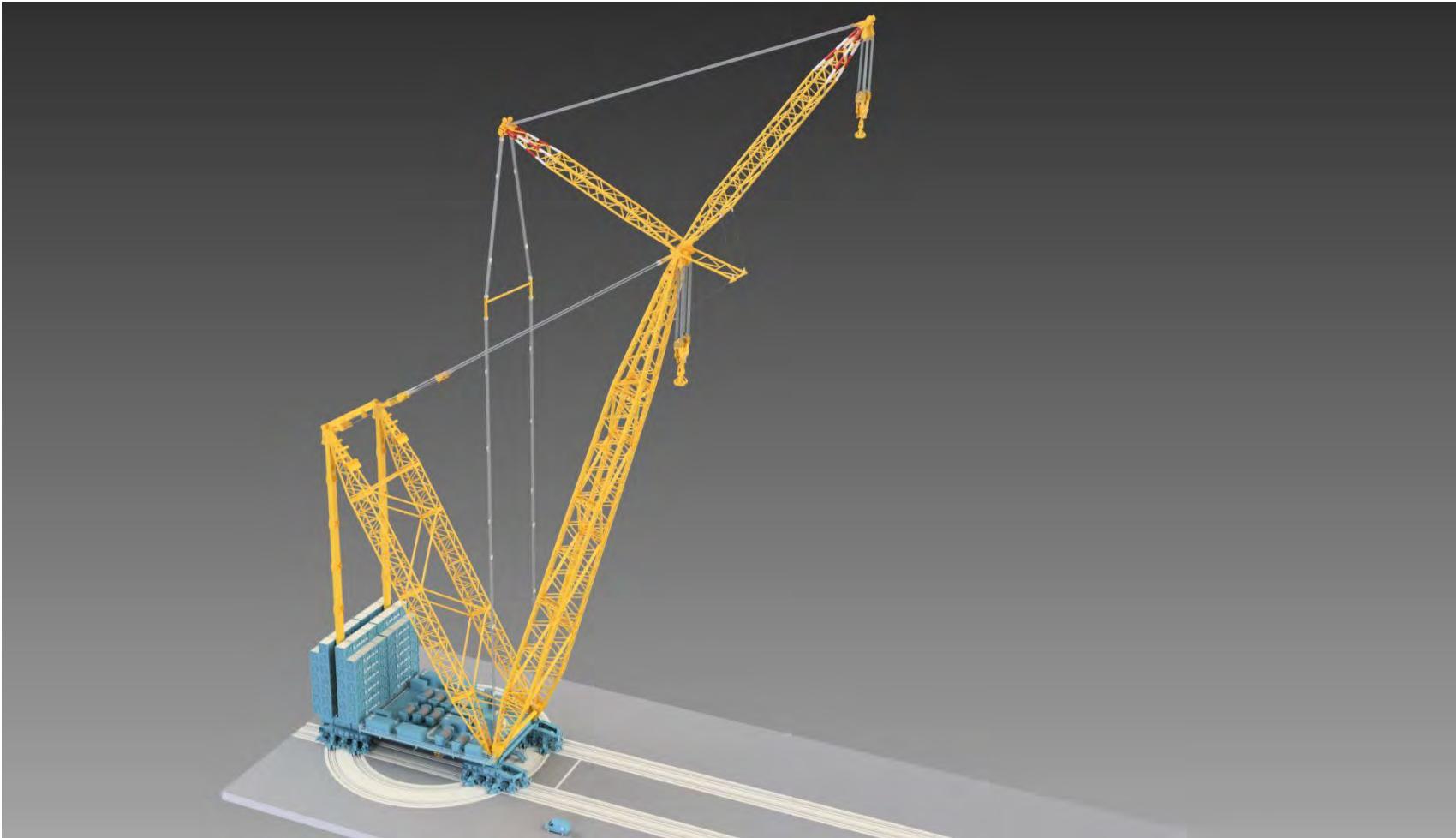
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SGC-250



SGC-250



THANK YOU!



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