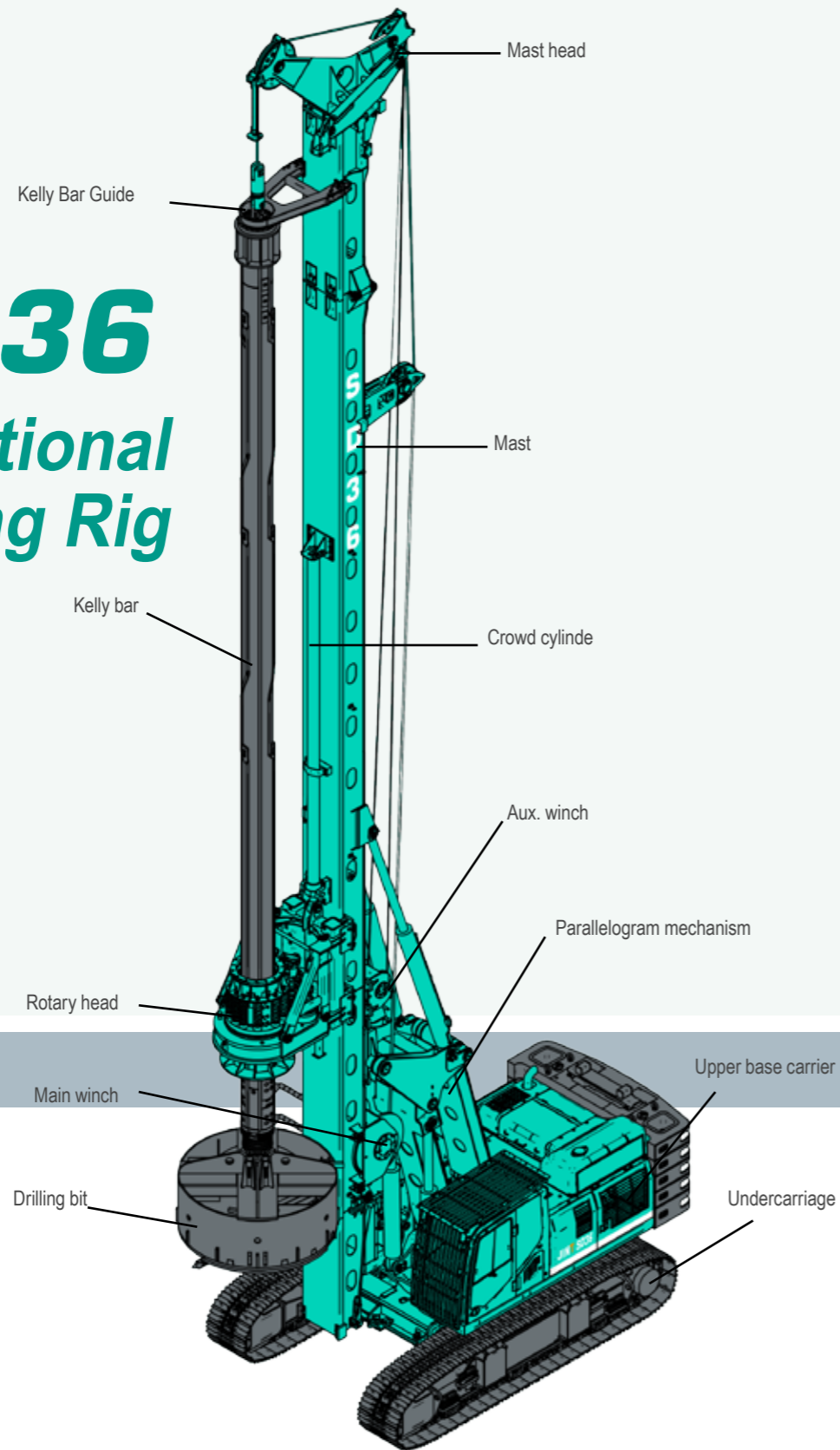


**SD36**

**Multi-Functional  
Drilling Rig**

# SD36 Multi-Functional Drilling Rig



- Engine: Cummins QSM11, USA
- Emission standard: Tier 3



- Main valve: Kawasaki special design for rotary drilling rig, Japan
- Design for large drift diameter and large flow



- Main and auxiliary pump: Kawasaki Load-sensitive variable pump, Japan

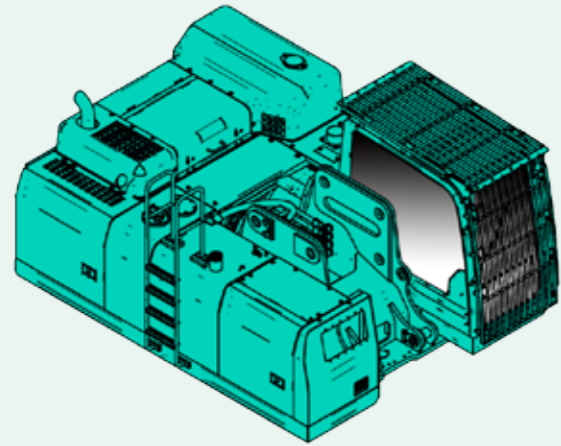


- Display of mast angle
- Dynamic display of drilling tool position, drilling depth and pulling force of winch

## SD36 Main Technical parameters

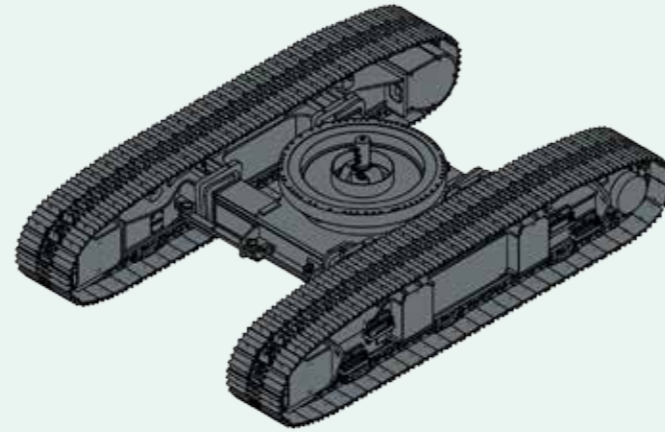
Model	SD36
Upper base carrier	JS80
Engine	QSM11-Tier 3
Rated output (kW/rpm)	299/1900
Undercarriage	JT90

For meeting with the requirements of complex strata construction and easy transportation, large sized rotary drilling rigs with parallelogram structure will be widely used in China in the future. SD36 is a new generation rig based on SD32. It is innovatively designed with successful experience of SD32, such as model selection, structure improvement and performance boost.



Upper base carrier——high efficiency, energy saving, comfortable, durable

- Full powered intelligent control system
- Parallely connected multi pumps
- Special main valve for rotary drilling rig to minimize losses
- Proper pipeline layout is easy for maintenance

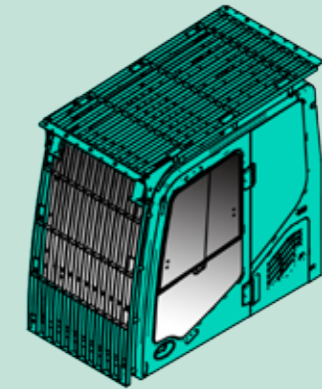
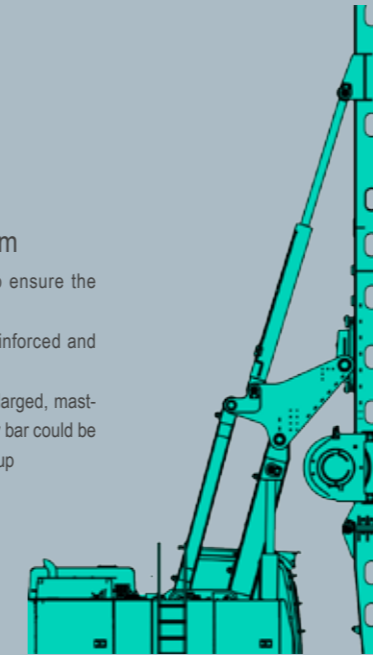


Undercarriage

- High strength single row slewing bearing
- Reliable H-type connected structure
- Retractable chassis with hydraulic cylinders
- Large sized bearing area could sustain large overturning moment
- Large towing force
- Optional: hoisting type counter-weight increase the under carriage weight

Parallelogram mechanism

- Double boom arm structure to ensure the strength
- Parallelogram structure was reinforced and welding process was improved
- Adjust cylinder diameter was enlarged, mast-up capacity is improved and Kelly bar could be installed on the mast when mast up



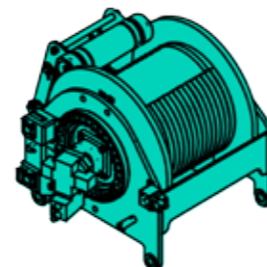
Advanced driver control cabin

- quiet and comfortable cab space
- 73db low noise in cab
- multi-functional joystick
- FOPS



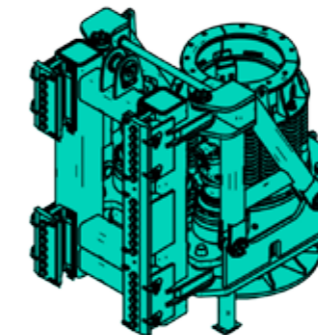
Variable combination of superposition counterweight

- Multi-layer horizontal placement counterweight
- Small rotation radius
- Flexible combination and practical adjustment
- Easy dismantling



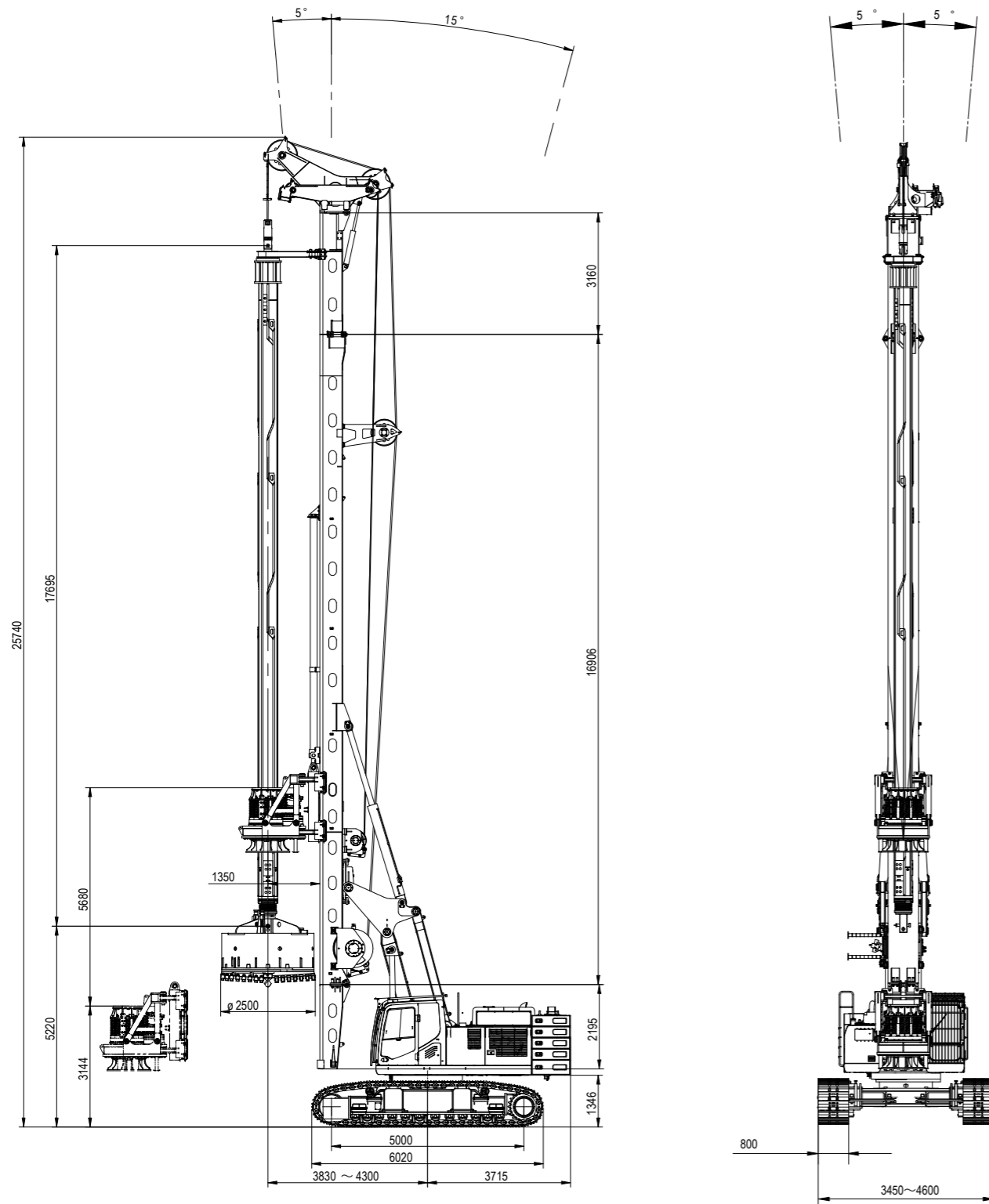
Main winch

- Main winch level M6/L3/T5, specially for heavy load design
- Broken-line groove to reduce wear of the rope
- Attached with a tension sensor
- easy dismantling



Rotary drive and sledge

- Single stage transmission mechanism , designed for strong and durable purpose. High efficiency of mechanical and hydraulic system design
- Electric motor , easy operation and maintenance
- The main stress surface was designed with 3 sets of wearable sliding board
- Simple designed large drift diameter central shaft



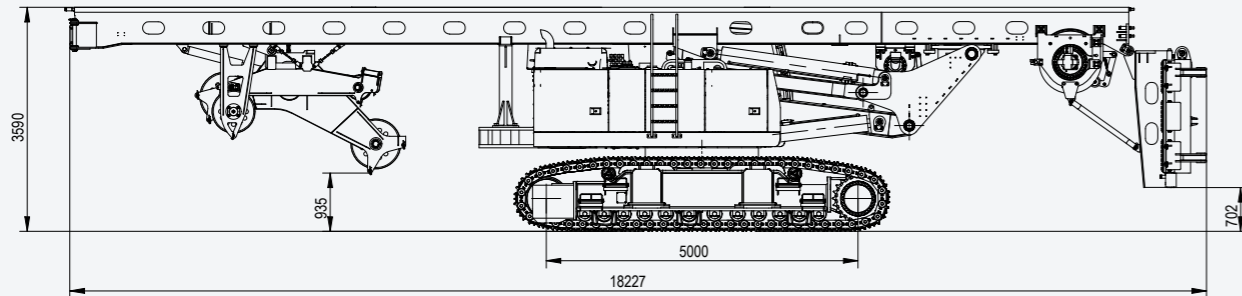
## Technical Parameters

<b>Model</b>	<b>SD36</b>
Mast height (mm)	25740
Total weight (w/o drill tools)(kg)	85000
<b>Upper base carrier</b>	<b>JS80</b>
Diesel engine	QSM11-Tier 3
Rated power rating (kW/rpm)	299/1900
Flow capacity of hydraulic system(L/min)	2×380+164
Hydraulic operating pressure (Mpa)	33
Noise level inside driver cabin [db(A)]	73
Capacity of fuel tank (L)	650
Capacity of hydraulic oil (L)	420
<b>Retractable undercarriage</b>	<b>JT90</b>
Width of crawler shoe (mm)	800
Length of crawler (mm)	6020
Width of crawler (retract/extend) (mm)	3450~4600
Traction force (kN)	650
Travel speed (km/h)	1.5
<b>Rotary head</b>	
Rotary torque (kNm)	360
Rotation speed (rpm)	6~30
<b>Main winch</b>	
Max. single line pull (kN)	300
Wire rope diameter (mm)	36
Max. hoisting speed (m/min)	60
<b>Aux. winch</b>	
Single line pull (kN)	75
Wire rope diameter (mm)	18
Max. hoisting speed (m/min)	45
<b>Crowd system cylinder type</b>	
Max. stroke (mm)	5680
Crowd force pull (kN)	250
Crowd force push (kN)	250

# Transportation Parameters

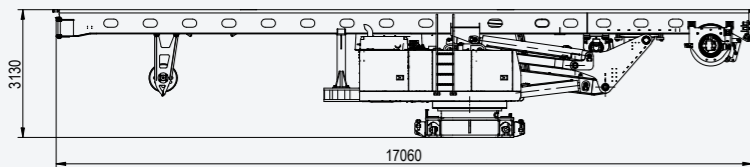
**1 Main base machine transportation**

G=63t B=3450



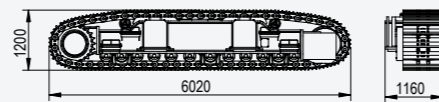
After dismantling of the left and right bracket supports with tracks, transportation could be effected

G=39t B=3400



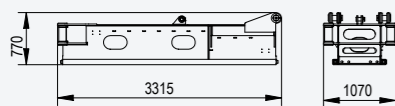
The left and right bracket supports with tracks

G=2×9.25t



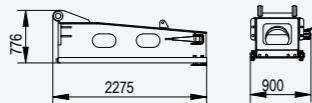
**2 Upper mast**

G=1.2t



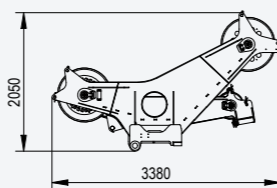
**3 Under mast**

G=0.7t



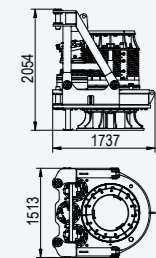
**4 Mast head**

G=1.3t



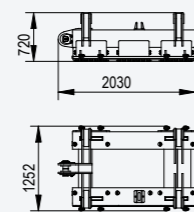
**5 Rotary head**

G=6.2t



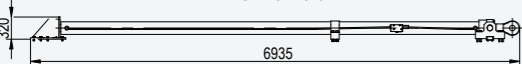
**6 Rotary head sledge**

G=1.6t



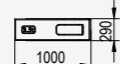
**7 Crowd cylinder**

G=1.1t B=540

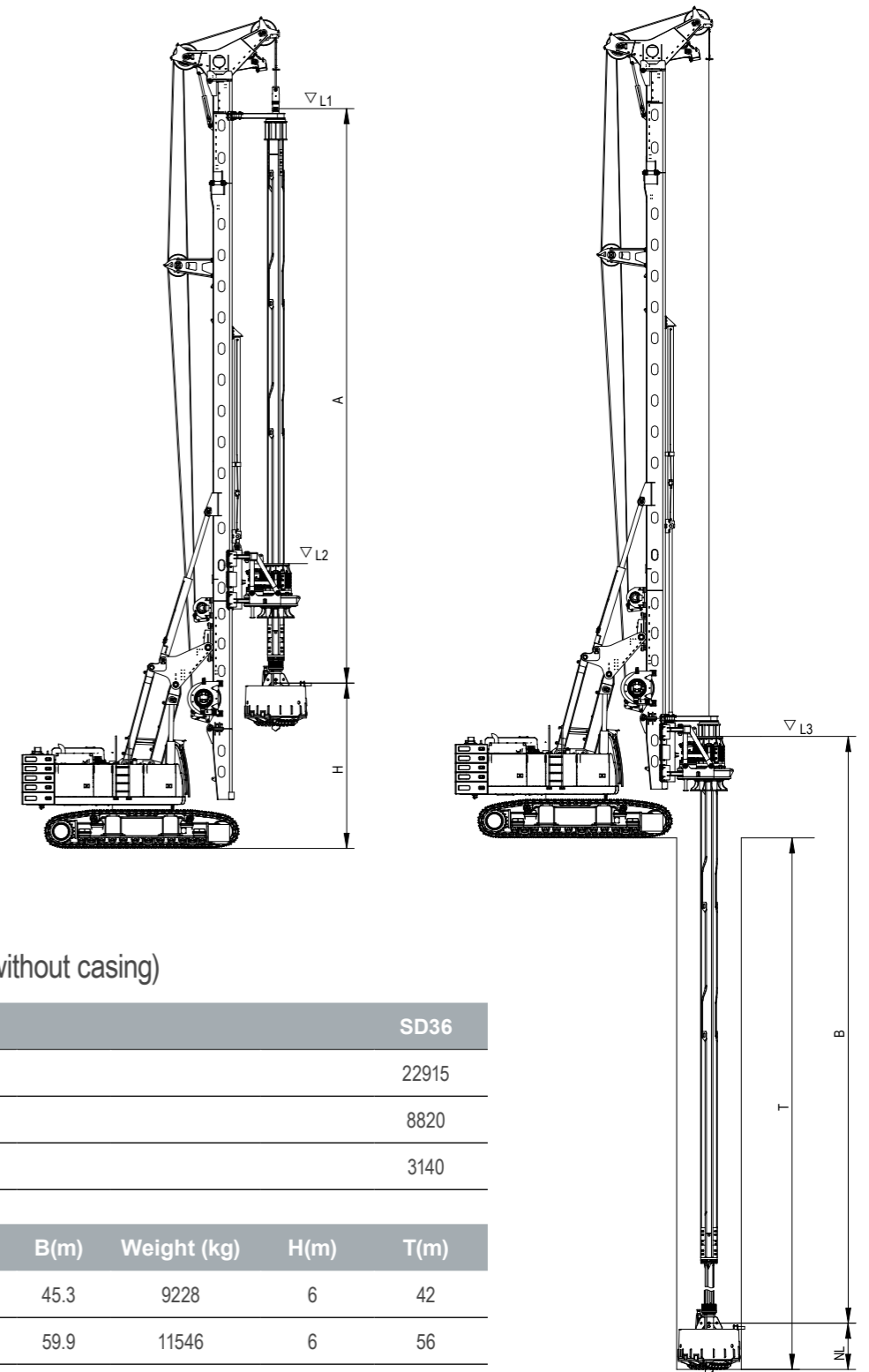
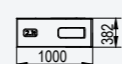


**8 Counterweight**

G=3.5t×4 B=3155



G=2.1t B=3155



## Kelly bar drilling data (without casing)

Main dimension(mm)	SD36
L1	22915
L2	8820
L3	3140

Kelly bar model	A(m)	B(m)	Weight (kg)	H(m)	T(m)
φ540/3 Interlocking	16.8	45.3	9228	6	42
φ540/4 Interlocking	16.8	59.9	11546	6	56
φ540/4 Interlocking	17.8	63.9	12600	5	60

Other size and length of Kelly bar can be supplied, according to customer's requirement.

(M)2016-11-SD36

More Information :

[www.jintai-sh.com](http://www.jintai-sh.com)



SD25



SD30



SH32



SD36



SH38



SH46

Technical specifications are subject to change without prior notice and incurring responsibility for machines previously sold. The shown machines may have special equipment. Technical data do not consider power losses. Error and misprints reserved.

**400-820-8326**



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