



DONGHAE MACHINERY & AVIATION Co., Ltd

TECHNICAL SPECIFICATION

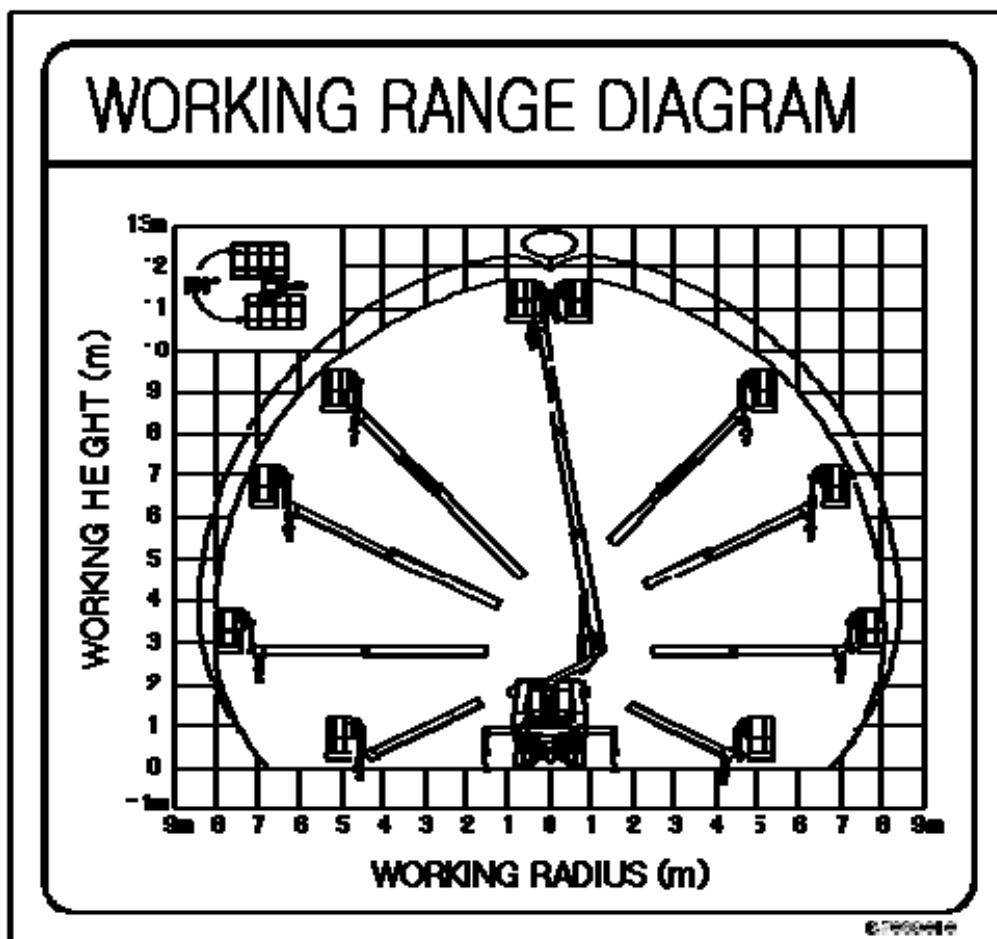
MODEL - DHS 1200L



Model	DHS 1200L
Revision	06
Date	May 16, 2012

DHS 1200L _____ Hydraulic Crane Leader

2. Working Radius/DHS 1200L



DHS 1200L Hydraulic Crane Leader

5. Boom System

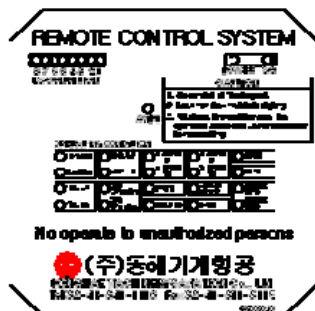
- 1) The booms are composed of 1st, 2nd, 3rd stage boom.
- 2) The 1st stage boom made of high tensile steel is fixed to the column by pin, hinge and derrick cylinder and its refraction angle is $-30^{\circ} \sim 80^{\circ}$.
- 3) The 2nd & 3rd stage booms are made of high tensile steel and they have been fully tested and manufactured for the unit.
- 4) The 2nd & 3rd stage booms are simultaneously extended and retracted by the telescopic cylinder in the inside of the 1st stage boom and its length is 3,400mm.

6. Winch (Option)

- 1) To lift heavy material, we adopt hydraulic winch.
- 2) Winch consists of hydraulic motor, gear, drum and brake. Winch lifting capacity is 300kg.(Single Line)

7. Control Box

- 1) This is a receiver box for checking crane operation.
- 2) It allows to see the state of crane at sight.



Receiver Box

6. SAFETY DEVICES

1. Proportional Valve;

It prevents rapid movement when the unit operates and makes the cylinder operated smoothly.

2. Pilot Check Valve and Counter Balance Valve;

These prevent boom falling abruptly if there is a hydraulic line failure or cutting off.

3. Vehicle Overturning Prevention Device;

1) Swing angle check sensor

If the vehicle tilts more than 3 degrees to the front and the boom swings in 120 degrees to the front side of the vehicle, the swing is limited as the swing angle check sensor is connected with a front angle check sensor.

2) Vehicle side angle check sensor

When platform is overloaded and the vehicle tilts more than 2 degrees in right or left side, the movement of boom and column are limited.

3) Vehicle front angle check sensor

It perceives the tilt of the front side of the vehicle and when the vehicle tilts more than 3 degrees, the movement of boom and column are limited.

4. Overload Check Sensor;

It makes alarm sound and shut down the movement when lifting an overloaded material beyond rated capacity with winch.

The more closer to the vehicle with fully retracted boom, the more heavy material can be lifted.

5. Auto Leveling Cylinder;

It makes horizontality of the platform automatically.

6. Alarm;

It makes alarm sound when safety device is working.

Stop operation and remove the cause of the alarm sound.

7. Swing Angle Check Sensor;

If the vehicle tilts more than 3 degrees in the front and the boom swings in 120 degrees in the front side of the vehicle, the swing is limited.

8. Safe Angle Deviation Preventer of Platform;

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When occupying the platform and the platform tilts over 10 degrees up and down, the platform movement is limited.

9. Emergency Manual Valve:

- 1), Its usage is for the case that battery and transmitter are out of order when the engine is on.
- 2), Before operating, contact with headquarter or A/S center for more safe work.
- 3), Detach the Emergency manual valve cover from column.
- 4), Lock the metering valve located on behind outrigger manual valve.
- 5), Check the label on column, expect the crane operation.
- 6), Make the equipment return to safe condition by operating the lever as slowly as it can.
- 7), Get the metering valve to the original position.



10. Emergency power pack

When truck engine is out of order, this emergency power pack can operate aerial platform such as boom rotation, boom extension and retraction, outrigger extension and retraction etc. In an engine failure case, an operator who is in the bucket can get back to the ground using this unit.



11. Outrigger Sensor

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It is a kind of interlock device. Without full stabilizing of outrigger on the ground, boom rotation, boom extension and retraction are limited.

12. Boom interlock

Before driving the chassis, boom should be fully retracted. If not, outrigger can't be raised and retracted.

13. Boom Angle Gauge

It shows boom angle to an operator. Referring to this gauge, operator can easily recognize the bucket angle.

14. Bucket Rest Bracket

It is used for bucket stowing before chassis traveling. If not, outrigger can't be raised and retracted.

15. Chassis horizontal Sensor

To prevent overturning of the chassis, outrigger should stabilize the chassis and make it on the surface level. If not, boom extension and retraction, boom rotation is limited.

16. Emergency stop switch



It is fitted at the unit and makes stop of all crane function in emergency. To restore function, turn to the switch to the clockwise.

6. EFFICIENCY OF THE CONTROL (WIRE/WIRELESS TRANSMITTER)

CRANE OPERATION BY TRANSMITTER

● AUTO LEVELING PLATFORM AND 1 WINCH TYPE

● TRANSMITTER CONTROLLER

- POWER
 - Turn on the power switch
- Start the engine
 - Keeping the auxiliary button down and push the engine start button.
- The crane operation
 - First of all, push any operation button what you want to do and hold joystick until the crane moves up to your choice.
 - When you hold the joystick again without pushing the operation button, the same operation will be carried out.
 - When you push other operation button after stop holding joystick, your new choice will be recorded as a new operation order.
 - If you make the crane operated with joystick, the chosen operation lasts for 8 seconds and you can repeat it
 - If you push other operation button holding joystick button, your new choice will be maintained only for the moment that you push the operation button.
- Stop the engine
 - Push the stop button

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