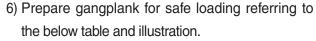
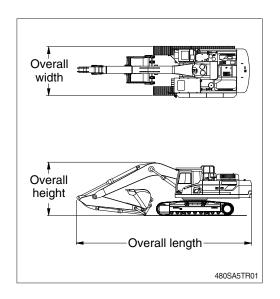
TRANSPORTATION

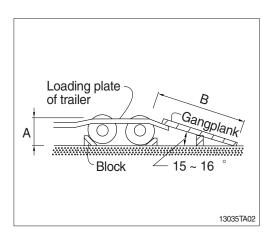
1. PREPARATION FOR TRANSPORTATION

- 1) When transporting the machine, observe the various road rules, road transportation vehicle laws and vehicle limit ordinances, etc.
- 2) Select proper trailer after confirming the weight and dimension from chapter 7, Specification.
- Check the whole route such as the road width, the height of bridge and limit of weight etc., which will be passed.
- 4) Get permission from the related authority if necessary.
- 5) Prepare suitable capacity of trailer to support the machine.



А	В
1.0	3.65 ~ 3.85
1.1	4.00 ~ 4.25
1.2	4.35 ~ 4.60
1.3	4.75 ~ 5.00
1.4	5.10 ~ 5.40
1.5	5.50 ~ 5.75





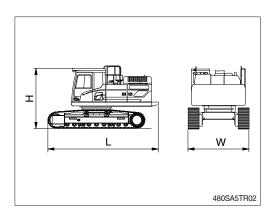
2. DIMENSION AND WEIGHT

1) HX500LT3

(1) Base machine

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6215 (20' 5")
Н	Height	mm (ft-in)	3240 (10' 8")
W	Width	mm (ft-in)	3340 (10' 11")
Wt	Weight	kg (lb)	

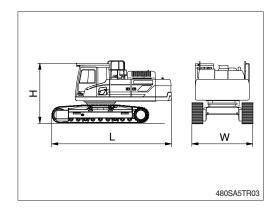
With 600 mm (24") triple grouser shoes and without counterweight.



Base machine

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6500 (21' 4")
Н	Height	mm (ft-in)	3240 (10' 8")
W	Width	mm (ft-in)	3340 (10' 11")
Wt	Weight	kg (lb)	

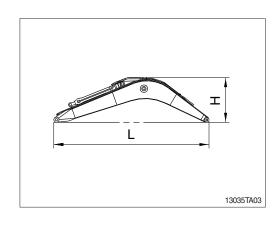
With 600 mm (24") triple grouser shoes and 10200 kg (22490 lb) counterweight.



(2) Boom assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6840 (22' 5")
Н	Height	mm (ft-in)	1835 (6' 0")
W	Width	mm (ft-in)	824 (2' 8")
Wt	Weight	kg (lb)	4380 (9660)

% 6.55 m (21' 6") boom with arm cylinder (including piping and pins).



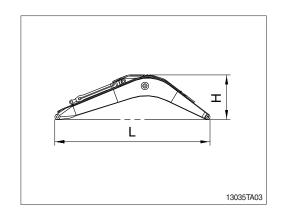
Boom assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	7350 (24' 1")
Н	Height	mm (ft-in)	1720 (5' 8")
W	Width	mm (ft-in)	824 (2' 8")
Wt	Weight	kg (lb)	4420 (9740)

¾ 7.06 m (23' 2") boom with arm cylinder (including piping and pins).

Boom assembly

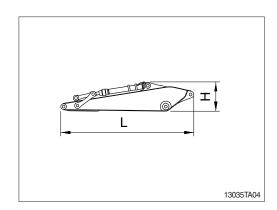
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	9290 (30' 6")
Н	Height	mm (ft-in)	1745 (5' 9")
W	Width	mm (ft-in)	824 (2' 8")
Wt	Weight	kg (lb)	5170 (11400)



(3) Arm assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	3785 (12' 5")
Н	Height	mm (ft-in)	1280 (4' 2")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2430 (5360)

^{2.55} m (8' 4") arm with bucket cylinder (including linkage and pins).



Arm assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	4160 (13' 8")
Н	Height	mm (ft-in)	1295 (4' 3")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2630 (5800)

^{2.90} m (9' 6") arm with bucket cylinder (including linkage and pins).

Arm assembly

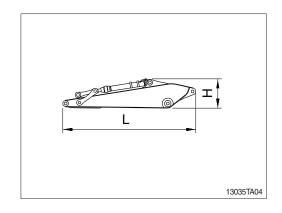
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	4660 (15' 3")
Н	Height	mm (ft-in)	1280 (4' 2")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2650 (5840)

^{※ 3.38} m (11' 0") arm with bucket cylinder (including linkage and pins).

Arm assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	5275 (17' 4")
Н	Height	mm (ft-in)	1065 (3' 6")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2700 (5950)

^{¾ 4.00 m (13' 1") arm with bucket cylinder (including linkage and pins).}



Arm assembly

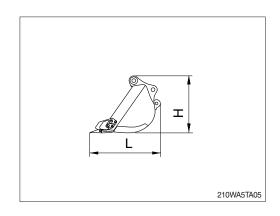
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	7305 (24' 0")
Н	Height	mm (ft-in)	1110 (3' 8")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	3260 (7190)

 ^{6.00} m (19' 8") arm with bucket cylinder (including linkage and pins).

(4) Bucket assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1955 (6' 5")
Н	Height	mm (ft-in)	1720 (5' 8")
W	Width	mm (ft-in)	1685 (5' 6")
Wt	Weight	kg (lb)	2020 (4450)

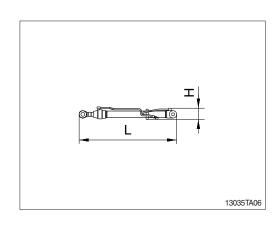
^{2.20} m³ (2.88 yd³) SAE heaped bucket (including tooth and side cutters).



(5) Boom cylinder

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2470 (8' 1")
Н	Height	mm (ft-in)	325 (1' 1")
W	Width	mm (ft-in)	503 (1' 8")
Wt	Weight	kg (lb)	571 (1260)

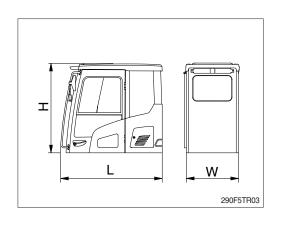
Including piping.



(6) Cab assembly

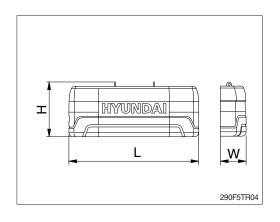
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1950 (6' 5") [2070 (6' 9")]
Н	Height	mm (ft-in)	1780 (5' 10") [1822 (6' 0")]
W	Width	mm (ft-in)	1104 (3' 7") [1126 (3' 8")]
Wt	Weight	kg (lb)	495 (1090) [650 (1430)]





(7) Counterweight

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2980 (9' 9")
Н	Height	mm (ft-in)	1250 (4' 1")
W	Width	mm (ft-in)	850 (2' 9")
	Weight	kg (lb)	9200 (20280)
			9700 (21380)
Wt			10200 (22490)
			10700 (23590)
			11700 (25790)

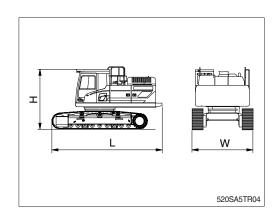


2) HX520LT3

(1) Base machine

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6215 (20' 5")
Н	Height	mm (ft-in)	3385 (11' 1")
W	Width	mm (ft-in)	2980 (9' 9")
Wt	Weight	kg (lb)	

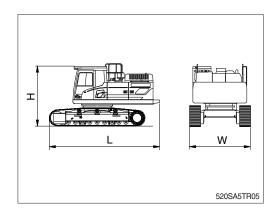
With 600 mm (24") triple grouser shoes and without counterweight.



Base machine

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6500 (21' 4")
Н	Height	mm (ft-in)	3385 (11' 1")
W	Width	mm (ft-in)	2980 (9' 9")
Wt	Weight	kg (lb)	

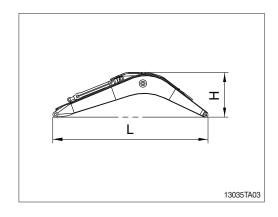
With 600 mm (24") triple grouser shoes and 10700 kg (23590 lb) counterweight.



(2) Boom assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6840 (22' 5")
Н	Height	mm (ft-in)	1835 (6' 0")
W	Width	mm (ft-in)	824 (2' 8")
Wt	Weight	kg (lb)	4380 (9660)

※ 6.55 m (21' 6") boom with arm cylinder (including piping and pins).



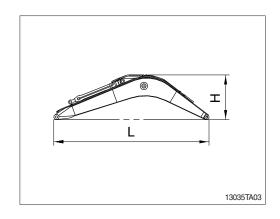
Boom assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	7350 (24' 1")
Н	Height	mm (ft-in)	1720 (5' 8")
W	Width	mm (ft-in)	824 (2' 8")
Wt	Weight	kg (lb)	4420 (9740)

※ 7.06 m (23' 2") boom with arm cylinder (including piping and pins).

Boom assembly

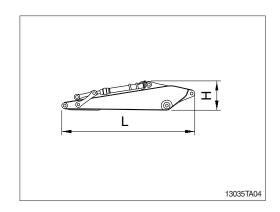
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	9290 (30' 6")
Н	Height	mm (ft-in)	1745 (5' 9")
W	Width	mm (ft-in)	824 (2' 8")
Wt	Weight	kg (lb)	5170 (11400)



(3) Arm assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	3785 (12' 5")
Н	Height	mm (ft-in)	1280 (4' 2")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2450 (5400)

^{2.55} m (8' 4") arm with bucket cylinder (including linkage and pins).



Arm assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	4160 (13' 8")
Н	Height	mm (ft-in)	1295 (4' 3")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2650 (5840)

^{2.90} m (9' 6") arm with bucket cylinder (including linkage and pins).

Arm assembly

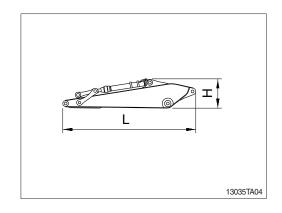
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	4660 (15' 3")
Н	Height	mm (ft-in)	1280 (4' 2")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2670 (5890)

^{※ 3.38} m (11' 0") arm with bucket cylinder (including linkage and pins).

Arm assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	5275 (17' 4")
Н	Height	mm (ft-in)	1065 (3' 6")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	2730 (6020)

^{¾ 4.00 m (13' 1") arm with bucket cylinder (including linkage and pins).}



Arm assembly

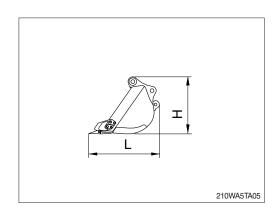
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	7305 (24' 0")
Н	Height	mm (ft-in)	1110 (3' 8")
W	Width	mm (ft-in)	470 (1' 7")
Wt	Weight	kg (lb)	3260 (7190)

 ^{6.00} m (19' 8") arm with bucket cylinder (including linkage and pins).

(4) Bucket assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1955 (6' 5")
Н	Height	mm (ft-in)	1720 (5' 8")
W	Width	mm (ft-in)	1685 (5' 6")
Wt	Weight	kg (lb)	2020 (4450)

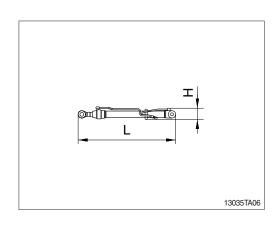
^{2.20} m³ (2.88 yd³) SAE heaped bucket (including tooth and side cutters).



(5) Boom cylinder

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2470 (8' 1")
Н	Height	mm (ft-in)	325 (1' 1")
W	Width	mm (ft-in)	503 (1' 8")
Wt	Weight	kg (lb)	571 (1260)

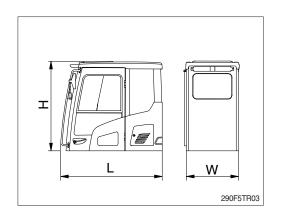
Including piping.



(6) Cab assembly

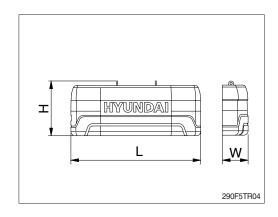
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1950 (6' 5") [2070 (6' 9")]
Н	Height	mm (ft-in)	1780 (5' 10") [1822 (6' 0")]
W	Width	mm (ft-in)	1104 (3' 7") [1126 (3' 8")]
Wt	Weight	kg (lb)	495 (1090) [650 (1430)]





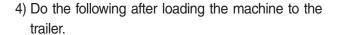
(7) Counterweight

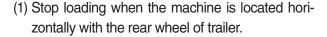
Mark	Description	Unit	Specification
L	Length mm (ft		2980 (9' 9")
Н	Height	mm (ft-in)	1250 (4' 1")
W	Width	mm (ft-in)	850 (2' 9")
			10200 (22490)
Wt	Weight	kg (lb)	10700 (23590)
			11700 (25790)

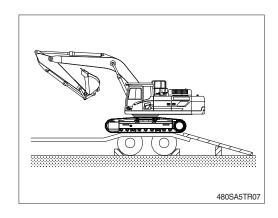


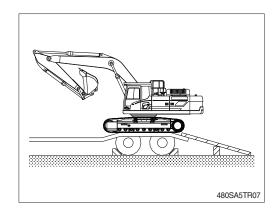
3. LOADING THE MACHINE

- 1) Load and unload the machine on flat ground.
- 2) Use the gangplank with sufficient length, width, thickness and gradient.
- 3) Place the swing lock/fine switch to the LOCK position (if equipped) before fixing the machine at the bed of trailer and confirm if the machine is parallel to the bed of trailer.
 - Keep the travel motor in the rear when loading and in the front when unloading.

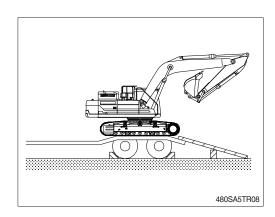




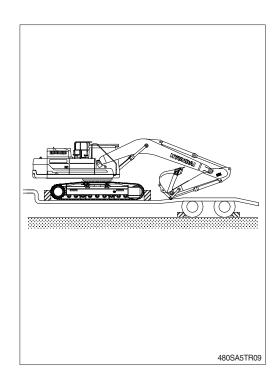




(2) Place the swing lock/fine switch to the LOCK position (if equipped) after swinging the machine 180°.

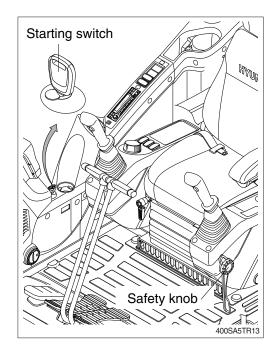


- (3) Lower the working equipment gently after the location is determined.
- Place rectangular timber under the bucket cylinder to prevent the damage of it during transportation.
- ▲ Be sure to keep the travel speed switch on the LOW (turtle mark) while loading and unloading the machine.
- A Avoid using the working equipment for loading and unloading as it will be very dangerous.
- ♠ Do not operate any other device when loading.
- A Be careful as to the boundaries of loading plate or trailer as the balance of machine will abruptly change.

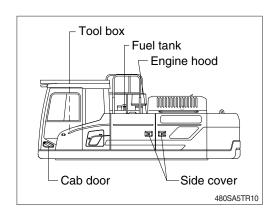


4. FIXING THE MACHINE

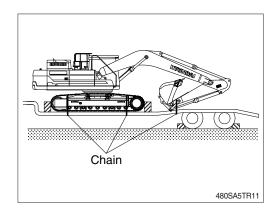
- 1) Lower down the working device on the loading plate of trailer.
- 2) Keep the safety knob in the LOCK position.
- 3) Turn OFF all the switches and remove the key.



4) Secure all locks.

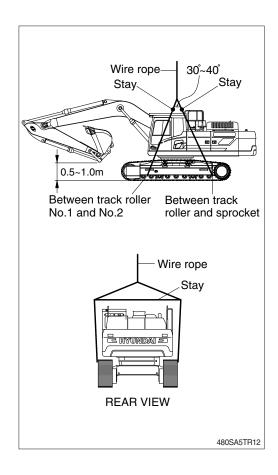


5) Place timbers behind the tracks, secure the machine to trailer with chains or straps which are in good condition and approved for the weight which they will be securing, to prevent the machine from moving in any direction.



5. LOADING AND UNLOADING BY CRANE

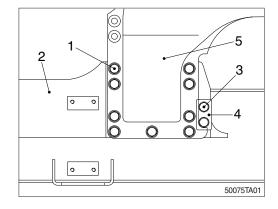
- ▲ The wrong hoisting method or installation of lifting device can cause serious injury, death, or damage to the machine.
- 1) Check the weight, length, width and height of the machine referring to chapter 7, Specification when you are going to hoist the machine.
- Use approved lifting device and ensure distance between lifting device and machine to avoid con tact between the two.
- Remove any parts (footboard, etc) that may be damaged by contact with the lifting device before lifting.
- 3) Place rubber plates at lifting points to avoid any damage to the machine.
- 4) Place crane in the proper place.
- 5) Install approve lifting device as shown in the illustration.
- 6) Use stay between the wire rope and the machine to prevent damage to the rope or machine. Set the lifting angle of the wire rope to 30°~ 40°.
- 7) After the machine comes off the ground, check the hook condition and the lifting posture, and then lift slowly.
- ♠ Ensure that lifting device is free form any damage and is approved for the weight being lifted and supported.
- ♠ Place the safety knob to LOCK position to prevent the machine from moving when hoisting the machine.
- ♠ Do not load abruptly.
- A Keep area clear of any and all personnel.



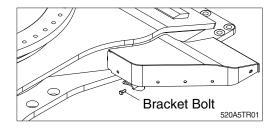
6. ADJUSTABLE TRACK GAUGE (HX520LT3 ONLY)

1) LOWER TRACK RETRACTION

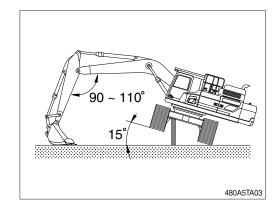
- ▲ Do not retract the track gauge except transporting purpose.
- (1) Remove nine bolts (1), and spacers from lower track (2) to the retracted.
- ※ Do not loosen two bolts (3) on guide (4).



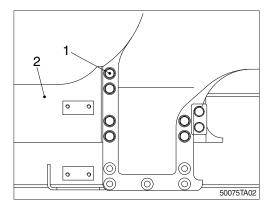
- (2) Remove the bracket bolt from the center frame.
- This applies from machine serial No. HX520LT3 #0209.



- (3) Turn superstructure so that it is perpendicular to lower track to be retracted. Raise lower track to approximately 15 degree from ground using a jack. Lower track should slide by its own weight and hit against the stop.
- If lower track does not slide in this condition, allow lower track that is not contraction ground to move back and forth slowly.
- ▲ The arm must be set at 90~110°.
 Never set it at an angle less than 90°.

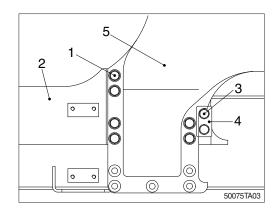


- (4) After lower track (2) has slid into place, lower superstructure to ground. Install six spacers and bolts (1).
- ** Tighten bolts to 220 \pm 20 kgf \cdot m (1590 \pm 145 lbf \cdot ft)
- Repeat procedure at opposite side center frame support.
- (5) After the bolts for one side frame are fastened, repeat steps 1 thru 4 for opposite side frame.
- (6) Store remaining bolts, spacers with machine.

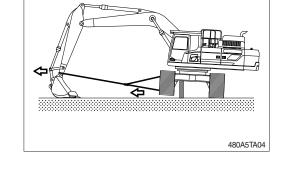


2) FRAME EXTENSION

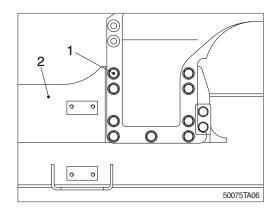
- (1) Remove six bolts (1), and spacers from lower track (2) to be extended.
- * Do not loosen two bolts (3) on guide (4).



- (2) Turn superstructure so that it is perpendicular to lower track to be extended.
- » Do not attach cable on side frame step.
- (3) Attach one end of cable on arm and the other end on lower track. Connect it with an appropriate holding device on both ends.
- (4) Raise lower track slightly with jack and block. Extend arm gradually to side frame out until it hits stop.
- (5) After lower track has slid into place, lower superstructure to ground.
 Remove cable.



- (6) Install nine spacers and bolts (1).
- % Tighten bolts to 220 \pm 20 kgf·m (1590 \pm 145 lbf·ft)
- Repeat procedure at opposite track frame support.



- (7) Install the bracket bolts.
- Tightening torque: 29.7 kgf·m (215 lbf·ft)
- This applies from machine serial No. HX520LT3 #0209.
- (8) After the bolts for one side frame are fastened repeat steps 1 thru 7 for other side frame.

