

For Models: SX 10, SX 20, SX 30, S 60, S 100

GENERAL INFORMATION

Yale Load Moving Systems have been designed to professionally transport heavy industrial loads. Each system includes a steerable front section and a pair of independent rear trolleys which together enable excellent manoeuvrability of almost all types of industrial loads.

Specially formulated composite wheels give low rolling resistance and help prevent damage to modern industrial floors.

Before using your Yale Load Moving System you must read the following warnings and comply with all instructions. For any additional advice on the safety and suitability of this equipment please contact your supplier. Please do this before operating the system.

There is a serious risk of personal injury if you do not follow all instructions detailed in this booklet.

This equipment is designed to be used on smooth industrial floors by an able bodied, competent adult who has read and understood these warnings and instructions.

This equipment MUST NOT be used to carry or lift



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personnel.

Make sure that you know how to operate this equipment safely and are aware of its limitations before you attempt to use it. Make sure that everyone in the immediate work area is warned of what you are doing and is aware of the path you plan the load to take.

ALWAYS ...

Always wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, and tie back long hair.

Always check that the wheels are free of embedded debris before using the system.

Always use on a smooth level surface with the load evenly distributed on the system.

Always use some form of anti-slip mat or wooden board between the three system support points and the load.

Always keep hands and feet well clear of all areas beneath the load being raised or carried.

Always operate the equipment within its rated capacity. DO NOT OVERLOAD.

Always keep fingers clear of the front wheel boxes when lifting the system. These boxes are designed to swivel.

Always avoid shock loading when positioning or carrying industrial loads.

Always use jacks to lift and lower loads onto any Load Moving System rather than lowering directly from a crane or fork lift truck.

Always ensure that the rear trolleys are kept in line by using the alignment bar supplied with the system.

Always keep children, animals and bystanders away from the work area. Cordon off a NO-GO area using cones, barriers or tapes.

DO NOT ...

Do not use the equipment until you have read and fully understood these instructions.

Do not operate the equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

Do not operate the equipment until you have checked that no damage to the system has occurred from previous use and that it has been correctly reassembled.

Do not operate the equipment until it has been ascertained that the weight and centre of gravity of the load being carried is in the centre of the 3 point load system.

Do not attempt to raise loads when they are close to ceilings or other overhead obstructions.

Do not operate the equipment until you have ensured that the load is balanced, stable and that all personnel are standing clear of the load and the route to be travelled.

Do not operate the equipment on inclined surfaces.

Do not allow hands, arms or feet to be directly under the load at any time.

Do not operate the equipment where contact with acids, alkalis or strong solvents is likely.

Do not operate the equipment over rough or uneven surfaces, floor joints, sliding door tracks, man hole covers, tarmac or asphalt.

Do not operate the equipment over any surface that is unable to adequately support the weight of the load and system together.



OPERATING INSTRUCTIONS

Getting Started:

Ensure that you have selected a set of skates that are designed to carry the full weight of your intended load. Have available all necessary lifting jacks, restraining equipment and pulling or pushing devices needed for the job.

Assess the shape of the load to determine the best position for the skates. Remember the load must rest evenly on the three top pads of the Load Moving System with half the weight equally on the two rear trolleys and the other half on the front steer section.

Always raise the rear part of the load first, using hydraulic claw jacks, then place the two rear trolleys in position. Ensure that some form of anti-slip mats or wooden boards are in place between the load and the tops of the two trolleys. The alignment bar should be positioned perpendicular to the direction of travel to avoid „crabbing“ when the load is moved. Carefully lower the load onto the rear trolleys and remove the jacks.

Next, jack up the front of the load and position the front steering unit (fitted with a turntable). Again, ensure that an anti-slip mat or wooden board is in place on the turntable pad.

Lower the load onto the steerable front section and double check that the load is evenly distributed and safely balanced.

Check that the route to the destination is clear and the surface is suitable for both the weight of the load and the Load Moving System.

Totally clear and clean the floor area and route to be travelled.

Remove all oil, grease, metal shavings, or debris.

Yale skates have only been designed to operate over smooth, modern industrial floors.

Basic Techniques:

The front skate must not be steered while the load is stationary. Steering can only occur when the load is moving.

When the system is moving, always position yourself so that you can control the skates while at all times staying clear of the load.

Extreme care should be taken to ensure that any operator, lookout or bystander does not get trapped between the load and any surrounding walls or obstructions.

When pushing or pulling with a powered vehicle, secure a restraint cable or sling to the load to prevent it running away.

The operator should be within sight of any powered vehicle driver at all times. If this is not possible, a third person should be used to relay instructions between the operator and the driver.

Whenever possible it is of great help to mark the floor to show the exact route where the load is to travel and to mark where it is to be finally positioned.

Check the path for debris before the operation and continually check behind you as you steer to make sure there is no danger of tripping or falling.

Do not allow the load system to travel at speed or abruptly change its direction of travel.

Finally

To remove the Load Moving System from beneath the load, the load should be raised on hydraulic claw jacks until it is just clear of the system. The front steer unit should be removed first and the load lowered to the floor before attempting to remove the rear units.

Next, the rear trolleys should be removed and the load lowered to the ground gradually and under total control. Before manually lifting any part of the Load Moving System, check that the component weight does not exceed 20kgs (44lbs).

Take your time and exercise extreme care. You are more likely to have an accident if you are tired or rushing to complete any operation.

Technical Data:

Model:	SX 10	SX 20	SX 30	S 60	S 100
max. capacity of <u>complete unit</u> , tonnes	10	20	30	60	100
max. capacity of front unit only, tonnes	5	10	15	30	50
max. capacity of <u>each</u> rear unit, tonnes	2,5	5	7,5	15	25
Overall height	102	102	110	170	210
Number of weels of complete unit	24	40	48	48	48
Ø of wheels, mm	82	82	82	115	150
Colour of wheels	black	black	black	black	black
Ø of turntable, mm	180	180	180	350	425
Width of wheels, mm	48	48	48	54	65
Weight of complete unit, kg	54	76	136	302	525



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