Precautions for mounting a caster

Do NOT use casters as follows.

Matters that lead to breakage of casters



Load shall be applied according to load capacity.

If load exceeding load capacity is applied, the caster may be damaged, and its performance may be degraded.



Do not drop or apply shock to the caster.

The life of the caster may be shortened or damaged.



Do not move the caster forcibly while the stopper is applied.

The stopper part may be damaged.



For fixed wheel, do not apply excessive force at right rotation angle of a wheel.

The bracket may be deformed, and performance of the caster may be degraded.



Do not strike the stopper part with a hammer or step on the stopper part hardly.

The stopper part may be damaged.



Do not use caster on significantly uneven surface.

The life of the caster may be shortened.



Do not use the caster under special environment susceptible to high temperature, low temperature and high humidity, etc.

Breakage or performance degradation of the caster may occur.



When mounting the screw-in type caster, be sure to tighten the caster at the hexagonal part on the stem using a wrench.



Do not use for towing by power.

The caster may be damaged, and it may cause accident or injury. (Excluding towing casters.)

Matters that lead to personal injury



Do not leave the caster while the stopper is applied on an inclined surface.

Leaving casters on an inclined surface since casters may start moving suddenly. Breakage or performance degradation of casters may occur.



Be sure to avoid eccentric loading.

It is very dangerous as it may cause you to lose the balance or fall.



Please do not ride on a trolley equipped with casters.

It' s very dangerous that the injury or casualty events may occur.

Application

Casters are designed to be intermittently used by humans in order to facilitate transfer of items.
It is also assumed that the product selection will be installed in various indoor and outdoor devices. So please select the product according to the usage conditions, applications and check the correct installation and setting conditions.

Optimum caster selection and usage conditions

①Load Capacity

The load capacity described in the catalog indicates a value that is easy to move when carrying a flat floor by human power. Please choose suitable load capacity of caster for your goods. There is a case that cart stands by 3 caster wheels even if 4 caster wheels are attached. Please multiply the total load by 0.8 as below. (Total load is included the weight of trolley.)

◆Case of caster usage 4pcs
Load Capacity ＝ 1pc Load Capacity × 4pcs × 0.8

◎Expression of power is daN.1daN=10N≒1.02kgf (1kgf≒9.8N=0.98daN)

②Using Speed

Casters shall run on flat floor surface at room temperature, and casters shall be used within the range on the following table. (Do not use casters continuously if heat is generated.)

Wheel Diameter	Using Speed
100mm or less	2km/h or lower
100mm or more	4km/h or lower

＊Please use LEADSTAR (Caster for towing) below 10km/h speed.

③Using Conditions

Generally, caster is on the assumption that used indoor and by ordinary temperature. Please avoid using in special condition such as high-temperature, low-temperature, much humidity, acid, alkali, salty, oil, sea-water, chemicals. It may cause deterioration of the product. Grease, wheel, fork are needed for each application under special environment. It may cause dirt on some materials. (Please feel free to ask us.) Please use stopper when you stop the trolley temporally.

④Stopper

Please be aware that stoppers may be unexpectedly released due to wear and damage due to long-term use, deterioration of function due to damage or impact. Hard wheel is inferior to brake performance compared with another wheel. If you need, please use wheel stopper on the ground for safety.

Precautions for mounting a caster

(1) Combine casters that are the same series.
(2) Mount swivel casters in such a manner that the rotation axis is vertical.
(3) Mount fixed casters in such a manner that casters become parallel each other.
(4) Tighten the mounting bolts to prevent loosening and install them properly. For a screw-in type caster, check proper torque so that the caster could be tightened correctly.
(5) Be sure to set the stopper to OFF when mounting a caster equipped with a stopper. If a caster is mounted while the stopper is set to ON, the braking portion may be damaged.

Precautions for use

●Depending on usage conditions and environment, tire mark may remain on the floor.
●Do not apply load exceeding load capacity.
●Be sure to load the individual wheels evenly.
●Do not apply excessive force other than the direction of rotation of the fixed wheel.
●Do not use casters in such a manner that impact is applied.(Impact such as climbing over the stepped surface, falling down, poking into the fork of a forklift, etc.)
●Do not use casters on significantly uneven surface.
●Do not tow casters by use of a trailer, etc. ＊Excluding casters supporting towing.
●Please wear shoes and operate the stopper.
●Do not move the caster forcibly while the stopper is applied.
●Please do not give force to the stopper or give a strong shock.
●Do not leave the trolley alone on the inclined surface even if stopper is set on.
●Do not operate the stopper while the caster is moving.
●Be sure to check that the stopper is released when moving the caster.
●Do not modify casters. ＊We assume no responsibility whatsoever for any accidents or failure resulting from modification.
●If a person, such as a chair, is used to sit on or ride, please contact our service center.

Inspection, maintenance and replacement

①Perform inspection and maintenance regularly in order to prevent accident and use a caster for a lengthy period. Please use gloves when you do maintenance(included regularly check and cleaning). You may get injured if you do it by bare hands.
②Please check the following items regularly.
・Is there any abnormality in the tightening part of the caster?
・Is there any breakage, crack and deformation of the caster?
・Is there any looseness of axle?
③If products have defects, such as deterioration and breakage, replace defective products immediately. (Do not only replace part of products.)
④If the turning parts or wheel portion catches foreign substance, remove the substance immediately. Otherwise, poor rotating movement may occur.

Please feel free to ask anything to us or near distributor.