



Eco-friendly specification

Reducing usage of lubrication oil



U.S. PATENTED

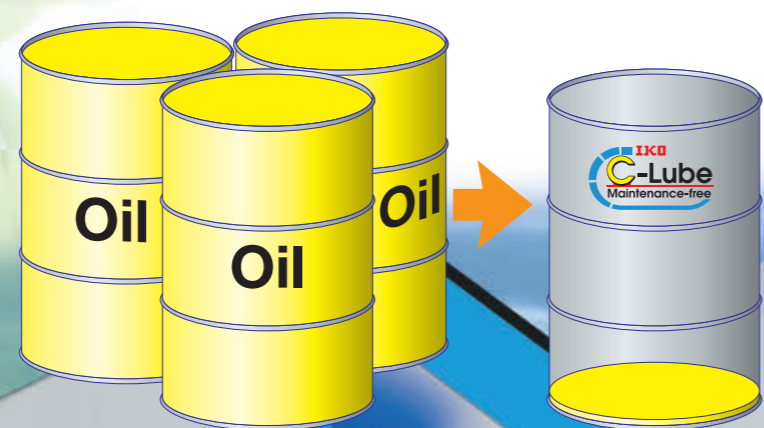
C-Lube Linear Way ML	Linear Way L
No. 7677804 7252435 6729761 6712511	No. 7258486 6517244 6176617 6082899 5967667
C-Lube Linear Way MLV	Linear Way E
No. 8465206	No. 7677804 6176617 5967667
C-Lube Linear Way MV	Linear Way H
No. 6712511 6729761	No. 7677804 6082899 6176617 5967667 6461045 5622433 6250805 6176617
C-Lube Linear Way ME	Linear Way F
No. 7748905 7677804 6729761 6712511	No. 6176617 5967667
C-Lube Linear Way MH	Linear Way U
No. 7832929 6712511 7762723 7748905 7677804 6729761	No. 6880975 6176617 6851857 6082899 6517244 5967667 6461045 5967667 6309107
C-Lube Linear Way MUL	
No. 5435649	
C-Lube Linear Roller Way Super MX	
No. 8403563 7950852 8403562 7927016 8123408 7862234 8113714 7832930 8033730 7997800	No. 8585288 7458721 8506166 7458720 8206036 5800064 8113714 7780356 7534042
Linear Roller Way Super X	
No. 7832930 6766897 7458721 6461045 7458720 6176617	No. 7341378 5622433 5967667 5464288 5800064

Eco-friendly

Consumption of precious oil resource is minimized! And elimination of oil feeder and its piping reduces the initial cost!

Contributes to reduction of total cost and environmental loads!!

Oil usage reduction effect

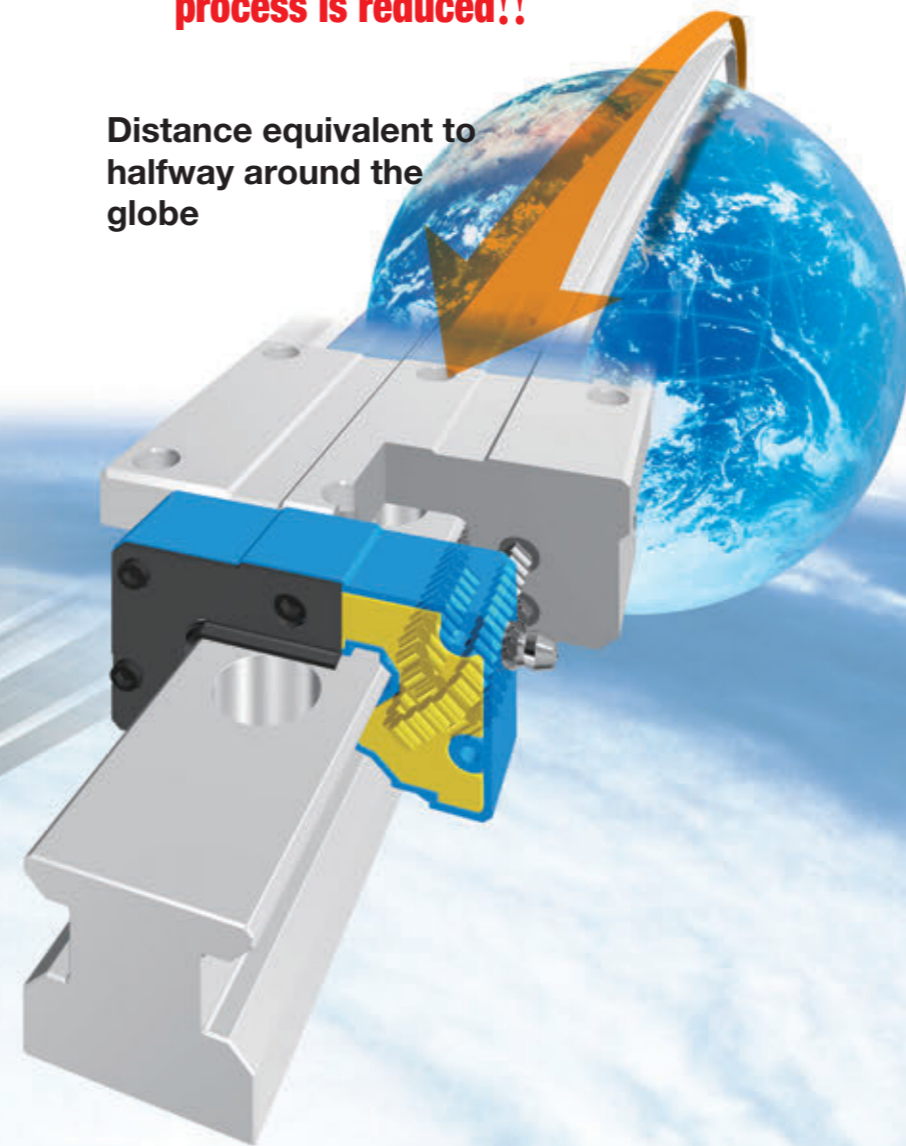


Maintenance free

Endures running over 20,000 km without oil feeding!

Troublesome lubrication maintenance process is reduced!!

Distance equivalent to halfway around the globe

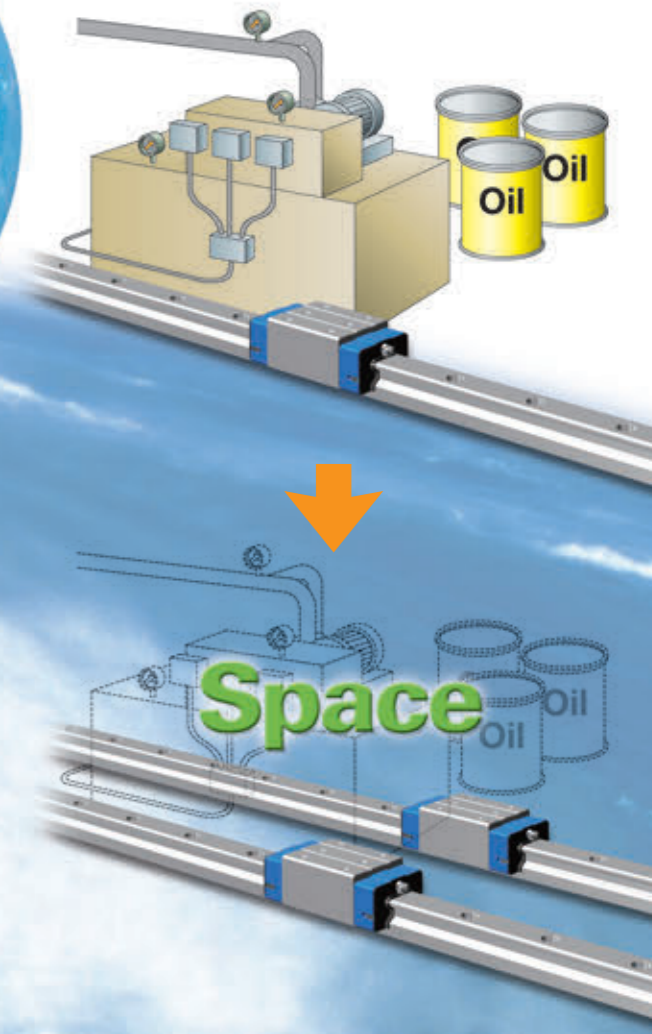


Compactness

The space consuming oil feeder is eliminated to save the space!

Freedom of machine designing is expanded for user!!

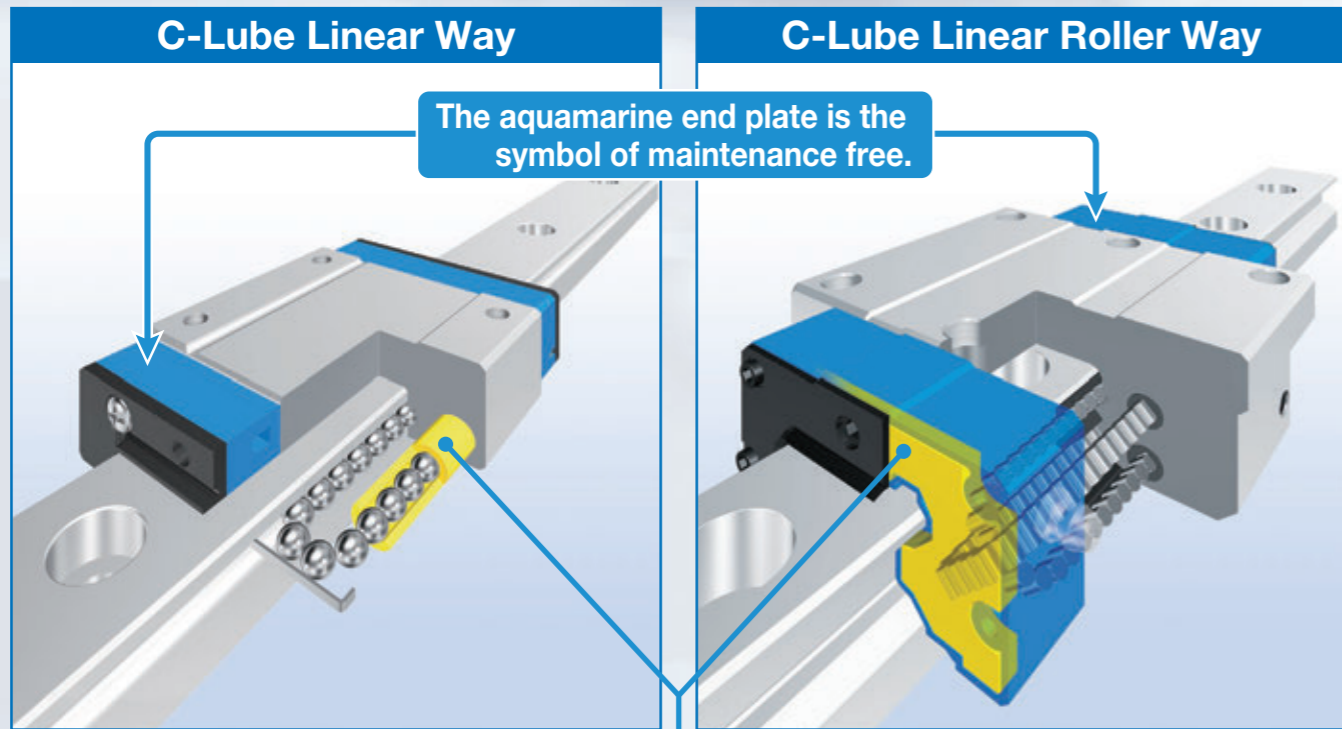
Efficient use of space





Features of C-Lube Linear Way and C-Lube Linear Roller Way

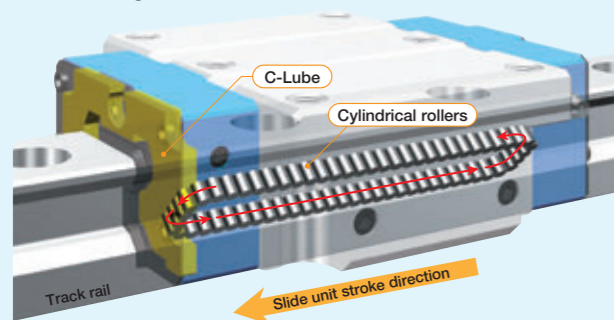
Original and world's first structure with [C-Lube]



C-Lube integrated

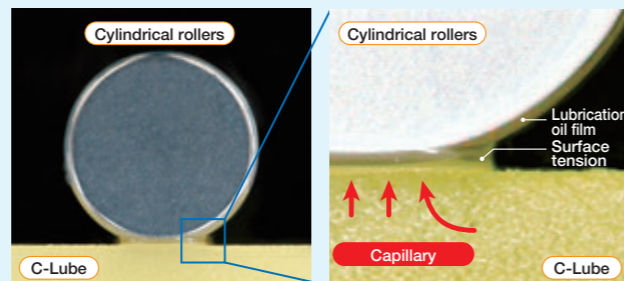
Lubrication oil is carried through circulation of rolling elements

The lubrication oil is supplied directly to the rolling elements, not to the track rail. When rolling elements make contact with the capillary lubricating element integrated with the circulation path of slide unit rolling elements, the lubrication oil is supplied to surfaces of rolling elements and carried to the loading area through circulation of rolling elements. This results in adequate lubrication oil being properly maintained in the loading area and lubrication performance will last for a long time.



Lubrication oil is directly supplied to surfaces of the rolling elements

The surface of capillary lubricating element is always covered with the lubrication oil. Lubrication oil is continuously supplied to the surface of rolling elements by surface tension in the contact of capillary lubricating element surface and rolling elements. On the surface of capillary lubricating element with which the rolling elements make contact, new lubrication oil is always supplied from the other sections.



Long term maintenance free is realized with oil impregnated with C-Lube only !!



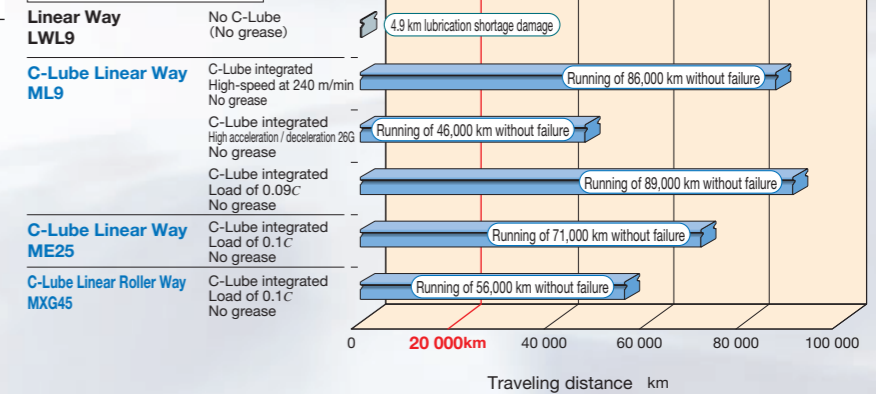
Maintenance free

This endures running over 20,000 km without oil feeding with lubrication oil in the C-Lube only. Furthermore, grease is pre-packed in the slide unit so long term maintenance free can be realized.

Maintenance free is achieved until the end of device life!

*1. Typical device life is assumed. Re-greasing may be necessary depending on use conditions.

Durability test result

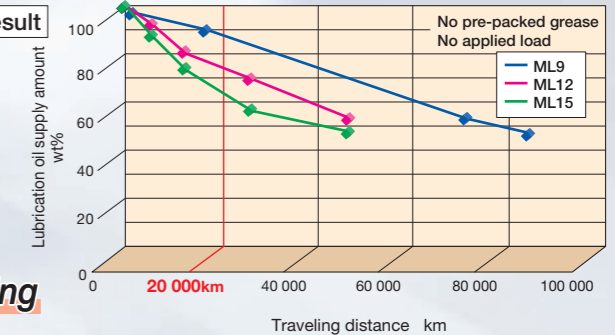


Eco-friendly

As lubrication oil in C-Lube is supplied by the amount necessary to maintain lubrication performance of the rolling guide, the consumption of lubrication oil is reduced and lubrication performance is maintained even when it run for a long period.

Eco-friendly specification reducing usage of lubrication oil!

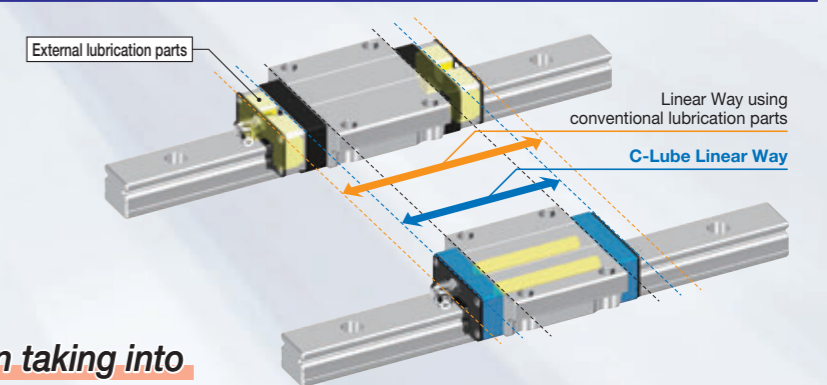
Oil supply test result



Compact

As C-Lube Linear Way and C-Lube Linear Roller Way are integrated with lubrication part C-Lube, their slide units are not long unlike types with external lubrication parts. Replacement of conventional parts is easy free from constraints of mounting space and stroke length.

Compact design taking into account compactness!



Smooth

C-Lube Linear Way and C-Lube Linear Roller Way do not generate slide resistance unlike lubrication parts external to the slide unit that make contact with the track rail. Driving force follow-up property is superior and energy is saved by improvement of accuracy and reduction of friction loss.

Light and smooth motion is achieved!

Frictional resistance test result

