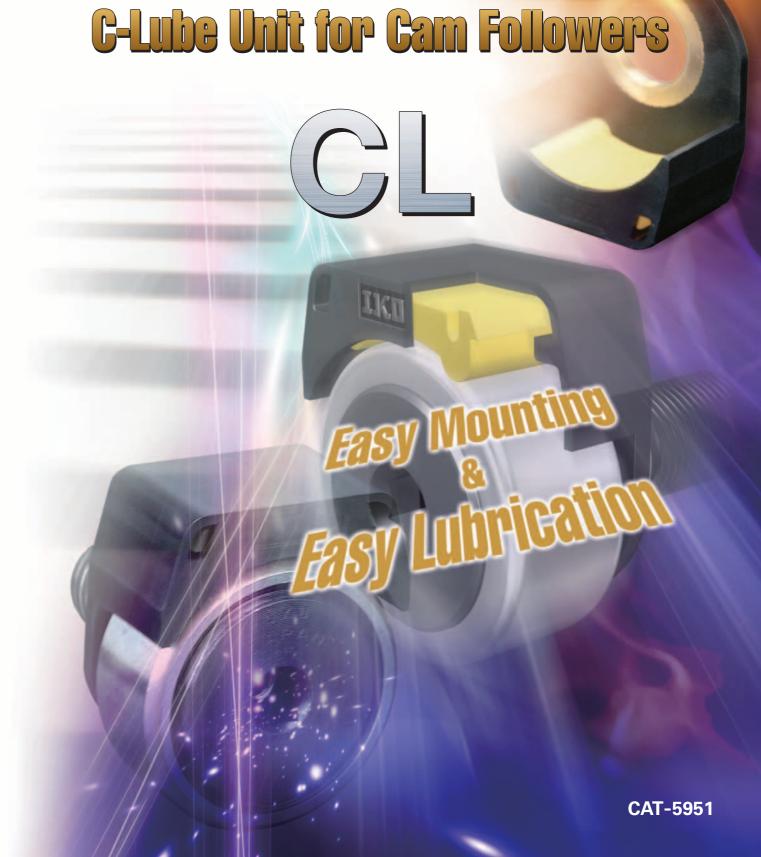
IKO







LKU C-Lube Unit for Cam Followers

C-Lube Unit CL is the lubrication-supporting equipment for the track surface and Cam Follower's outer ring to keep both surfaces free of maintenance.

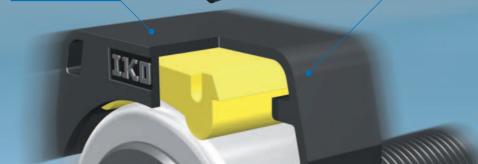
Capillary lubrication structure

Capillary system IKI has developed is a new type lubrication. It is a porous resin Lube-body or plate with steel backing formed by sintering fine resin powder and impregnating a large amount of lubrication oil in its open pores. Capillary system always supplies proper amount of lubrication oil to the cylindrical rollers and lubrication condition of the raceway can be kept well for long





Lubricant is retained in cavities amongst resin particles







Problems

Wear caused by shortage of lubrication.

Clean Lubrication

C-Lube unit : CL





Effect of using CL

These problems can be solved by adopting CL.



CC C-Lube Cam Follower Cam Follower is not included in CL.

C-Lube Unit CL

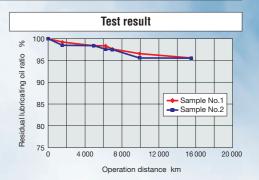
A proper quantity of lubricating oil is supplied onto the track surface without oil scattering causing no pollution to the surrounding environment, and oil consumption can be minimized.

Maintenance free, Cleanliness and Ecology

Result of durability test

Test condition (1)									
Sample	CL12 and CF12 WBUUR/SG (C-Lube Cam Follower)								
Lubrication Maximum spee	Only by C-Lube, no pre-packed grease								
Stroke length	300mm								
Specification of track rail	Material: Alloy tool steel (Equivalent to D2 in AISI) Hardness: HRC58 or over Roughness: Rz 6.3 µm or less								
Environment	Normal temperature								

Note (1): Track surface: Ground Re-confirmation is needed in other finishing surface. Please consult XXXIII





C-Lube Unit for Cam Followers

C-Lube Unit CL is the lubrication-supporting equipment for the track surface of Cam Follower's outer ring. Full maintenance free for both inside and the outside of Cam Follower is possible when CL unit is assembled to C-Lube Cam Follower CF.../SG.







IKI C-Lube Cam Follower CF···/SG

IKD C-Lube Unit for Cam Follower

Full Maintenance Free

Easy installation

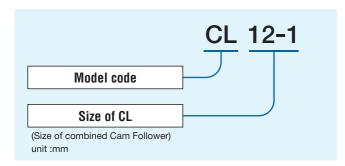
- C-Lube can be installed by only placing it on the stud of Cam Follower. No additional work to the customer's system is required.
- Just clean track surface with clean cloth and remove foreign particles
- High grade of lubricant oil is fully impregnated in C-Lube Unit, and it can be used even other machining oil is existed around.





Identification number

The identification number example of III C-Lube Unit is shown



For use

Maximum allowable static load

The maximum allowable load on IKO Cam Follower with C-Lube Unit is, in some cases, limited by the bending strength and shear strength of the C-Lube Unit instead of the load rating of needle bearing part. In order to safety operation, the maximum allowable static load is specified by the limitations of those strengths.

Operation check

After assembling C-Lube Unit and Cam Followers in the machine, please confirm that C-Lube unit provides oil correctly to the track surface before actual operation.

Allowable rotation speed

The rotation speed of IKO Cam Follower with C-Lube Unit should not exceeded $d_1 n = 10,000$ for reference.

 $d_n n = d_n \times n$

- d: Stud diameter of Cam Follower, mm
- n: Rotational speed, rpm

Minimum rotational angle

Lubricating oil is supplied to the whole external diameter surface of the outer ring. Accordingly, use the product in a condition in which the outer ring makes one or more turns.

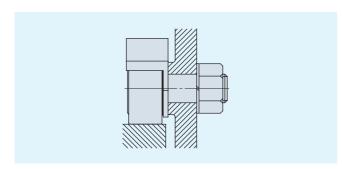
Operating temperature

3

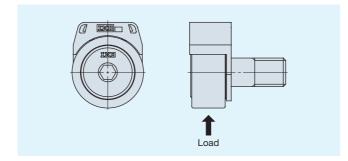
Allowable operating temperature range of IKO Cam Follower with C-Lube Unit is -15 to 80°C.

Mounting

1 Set the C-Lube Unit perpendicularity to the center axis of Cam Follower and fix together with Cam Follower by tightening nut.



2 Position of C-Lube Unit is adjustable. C-Lube Unit must be positioned avoiding loading direction.



3 When tightening the nut, the tightening torque should not be exceeded the value maximum tightening torque on dimension table. In case loosening of the nut is predicted due to vibration, using lock nut, spring washer and other special washer are recommended.

Precaution

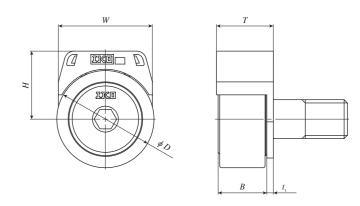


- · Do not use in the environment which contamination of liquid and/or harmful foreign matter are expected.
- Do not wash with organic solvent and/or white kerosene, which have the ability of removing fat nor leave them in contact with the above agents.
- To ensure normal rotation of the Cam Follower, apply a load of 1% or over of the dynamic load rating at use.
- · Replace with new C-Lube Unit when inside oil finishes completely. Re-lubrication is not possible.
- · Do not apply a load onto the C-Lube Unit directly.

Dimension Table

C-Lube Unit for Cam Follower

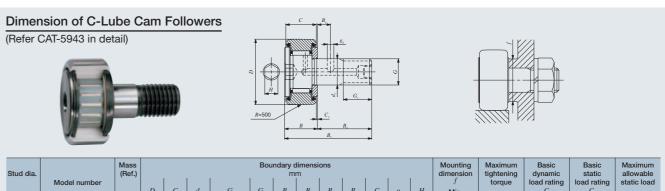




		Boundary of	dimensions	3	Applicable Cam Followers								
Model number	W	m <i>H</i>	m T	t ₁	Model number (1)	Boundary d m	imensions m B max	Maximum (2) allowable static load N					
CL 6	15.4	12.6	14	1.5	CF 6 B	16	12.2	1 560					
CL 8	18.4	14.2	14	1.5	CF 8 B	19	12.2	3 700					
CL 10	21	17	15.5	2	CF 10 B	22	13.2	5 510					
CL 10-1	21	19.2	15.5	2	CF 10-1 B	26	13.2	5 510					
CL 12	29	21	17.5	2	CF 12 B	30	15.2	7 830					
CL 12-1	29	22	17.5	2	CF 12-1 B	32	15.2	7 830					

Note (1): Only representative types shown in the table, but also applicable to the same size of standard type, with thrust washer type, centralized lubrication type, C-Lube maintenance free type and heavy duty type. Combine with C-Lube Cam Follower is strongly recommended for full maintenance free.

(2): Actual load should be not exceeded these values.



Stud dia.		Mass (Ref.)												Mounting dimension	Maximum tightening	Basic dynamic	Basic static	Maximum allowable		
mm	Model number	Model number	g	D	С	<i>d</i> ,	G	$G_{_1}$	B max	B, max	B_{2}	$B_{_3}$	С,	82	Н	Min. mm	torque N·m	load rating C N	load rating C ₀ N	static load
6	CF 6 WBUUR/SG	18.5	16	11	6	M 6×1	8	12.2	28.2	16	-	0.6	-	3	11	2.7	3 660	3 650	1 950	
8	CF 8 WBUUR/SG	28.5	19	11	8	M 8×1.25	10	12.2	32.2	20	-	0.6	-	4	13	6.5	4 250	4 740	4 620	
10	CF10 WBUUR/SG	45	22	12	10	M10×1.25	12	13.2	36.2	23	-	0.6	-	4	16	13.8	5 430	6 890	6 890	
10	CF10-1 WBUUR/SG	60	26	12	10	M10×1.25	12	13.2	36.2	23	-	0.6	-	4	16	13.8	5 430	6 890	6 890	
	CF12 WBUUR/SG	95	30	14	12	M12×1.5	13	15.2	40.2	25	6	0.6	3	6	21	21.9	7 910	9 790	9 790	
12	CF12-1 WBUUR/SG	105	32	14	12	M12×1.5	13	15.2	40.2	25	6	0.6	3	6	21	21.9	7 910	9 790	9 790	

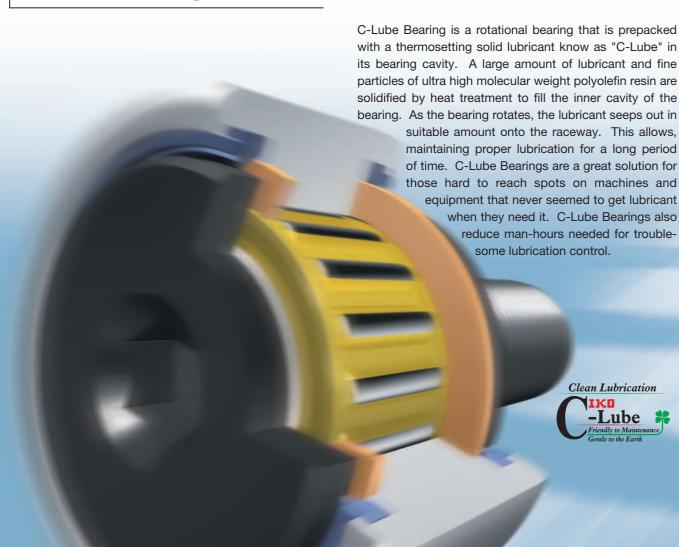
1N=0.102kgf=0.2248lbs. 1 mm = 0.03937 inch

World Network of IKO

C-Lube integrated in IIK Needle Bearing Series.

IK Maintenance Free Series

C-Lube Bearing





C-Lube Cam Follower CF···/SG



Machined type • Shell type C-Lube Bearing

**Applicable to caged type only

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Recognizing that conservation of the global environment is the top-priority challenge for the world's population, We will conduct its activities with consideration of the environment as a corporate social responsibility, reduce its negative impact on the environment, and help foster a rich global environment.

ISO 9001 & 14001 Quality system registration certificate





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