

Founded in 1969



50 Years of Experience



Annual production and sales up to 18 Million Pieces



Fully automated production line $300.000 \, \mathrm{m}^2$



Supplying
72 countries
Word Wide



Wide Stocking
4000 Euro Palette
Space









Production Capacity

- 2 millions sets insert bearing rings automatic turning line per month
- 1 Automatic grinding line
- 2 Heat Treatment lines
- 12 automatic assembly lines
- 5 casting lines
- automatic machining line for housings
- Automatic painting line; capacity of 1.4 million pcs per month
- Automatic assembly and packing line

Product Portfolio

Insert Bearings & Bearing Units



High Speed & Silent



Low Torque Rotation



Stainless Steel Thermo Plastic/ Silver



Maintenance Free (Long Life)



Plummer Blocks



High Temperature



Corrosion Resistant



Customized







Product Portfolio

Adapter Sleeve

Back Seal

End Cap







Agriculture Bearings

Agriculture HUB Bearings 4 Point Contact
HUB Units















Insert Bearings

SHAFT FASTENING WITH SET SCREWS



SHAFT FASTENING WITH ECCENTRIC LOCKING COLLAR

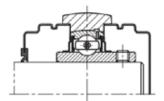


SHAFT FASTENING WITH ADAPTER SLEEVE

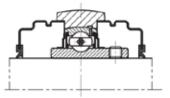


Protective End-Cover Designs

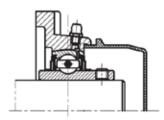
Cover Types



Closed Pressed Steel Cover

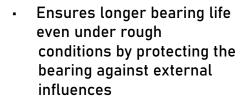


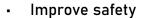
Open Pressed Steel Cover

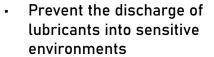


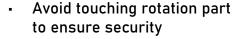
Closed Plastic Cover

Benefits













Housing Materials

Grey Cast Iron



Most commonly used material

Sheet Steel



- Best for space saving in tight application areas
- Preffered in low impact application areas
- Makes the design lighter

Stainless Steel Cast Iron



- Best for high temperature (+400) applications
- High corrosion resistance

Composite/Thermoplastic Material



- Washable since outer coating is thermoplastic
- 100% hygiene when washed as its outer surface is smoother compared to metal
- Specifically prefered in Food Industry

Sealing Solutions

Seals for Insert Bearings	Applicable Bearings	Features		
J Type Rubber Seal	SB, SA, JB, CS (Standard on SB, JB, CS Series)	LOW FRICTION RUBBER SEALING Synthetic rubber is moulded into the core piece. It is inserted into groove of the outer ring and fitted in the inner ring's outer diameter. It has low friction, high oil resistance and good mechanical stability. Best for normal environmental conditions.		
H Type Metal Seal	SB, SA, JA (Standard on SA, JA Series)	COMBINED LONG-LIFE SEALING Synthetic rubber is moulded inside the steel plate and fixed with the outer ring of the bearing. The inner ring's outer diameter contacts synthetic rubber which helps friction resistance to be decreased. The steel plate protects the rubber seal. This combined effect ensures the long service life even under rough conditions.		
SL Type Dual Seal	UC, HC, UK, UCX, SER, NC, ERC (Standard on UC, HC, UK, UCX, SER Series)	DUST PROOF SEALING Oil seal is fixed in the outer ring inner diameter groove, while the slinger is set at the inner ring outer diameter. The simultaneous revolution with inner ring generates the wind pressure for dust-proof property. This creates the ideal labrinth, guaranteeing the dust-proof sealing.		
L3 Type Triple-Lip Seal	UC, HC, UCX, SER, NC, ERC	SEALING FOR HARSH CONDITIONS The metal cap and synthetic rubber seal are moulded together to form a single seal. Seal lip has sufficient tightening allowance. The lip layers are of triple construction which is ideal for medium to high polluted environments (dust, water etc.)		
F Type Seal	UC, HC, UK, UCX, SA, SB, SER, NC, JA, JB, ERC	SEALING FOR HIGH VIBRATION APPLICATIONS Consists of inner steel plate, outer steel plate and a rubber washer. It is fixed in the outer ring groove, therefore, resists loosening during as- sembly that may be caused by excessive grease or vibration via impact.		
Combined Seal		SEALING FOR EXTREME CONDITIONS The triple lip seal is completely covered by a massive steel protector. The zinc-coated impact shieldis additionally equipped with a lip seal and strongly secured on a knurled seat. Ideal for; extremely polluted environments, shock resistance, low rotation speeds, high friction		

ck resistance, low rotation speeds, high friction

Housings with Bearing Inserts

Cast Iron Housings with Chrome Steel Bearing Inserts

PILLOW BLOCKS

FLANGED UNITS

TENSIONER HANG UP CARTRIDGE UNITS

	BEARING INSERTS / HOUSINGS		101_	0.	EQ.	0	loi	<u>IOL</u>	v	covers for combination vith naft-Ø 12-65mm)*
			UC2G2 / UC3G2	U\$2G2	EX2G2 / EX3G2	E\$2G2	LK2G2H	UK2G2H/ UK3G2H	UC2G2 / US2G2 / LK2G2H / UK2G2H	EX2G2 / E\$2G2
I	þ	PE2	UCPE2	USPE2	EXPE2	ESPE2	LKPE2+H	UKPE2+H	SCC2/SCO2	SCCE2/SCOE2
	þ	PLE2	UCPLE2	USPLE2	EXPLE2	ESPLE2	LKPLE2+H	UKPLE2+H	SCC2 / SCO2	SCCE2/SCOE2
	þ	P2 / P3	UCP2 / UCP3	USP2	EXP2 / EXP3	ESP2	LKP2+H	UKP2+H / UKP3+H	SCC2/SCO2	SCCE2/SCOE2
		PH2	UCPH2	USPH2	EXPH2	ESPH2	LKPH2+H	UKPH2+H	SCC2/SCO2	SCCE2 / SCOE2
	0	PAE2	UCPAE2	USPAE2	EXPAE2	ESPAE2	LKPAE2+H	UKPAE2+H	SCC2/SCO2	SCCE2 / SCOE2
	D	PG2	UCPG2	USPG2	EXPG2	ESPG2	LKPG2+H	UKPG2+H	SCC2 / SCO2	SCCE2/SCOE2
		PA2	UCPA2	USPA2	EXPA2	ESPA2	LKPA2+H	UKPA2+H	SCC2/SCO2	SCCE2/SCOE2
		FE2	UCFE2	USFE2	EXFE2	ESFE2	LKFE2+H	UKFE2+H	SCC2 / SCO2	SCCE2/SCOE2
		F2/F3	UCF2/ UCF3	USF2	EXF2/EXF3	ESF2	LKF2+H	UKF2+H / UKF3+H	SCC2 / SCO2	SCCE2/SCOE2
	0	FCE2	UCFCE2	USFCE2	EXFCE2	ESFCE2	LKFCE2+H	UKFCE2+H	-	-
	0	FC2	UCFC2	USFC2	EXFC2	ESFC	LKFC2+H	UKFC2+H	SCC2/SCO2	SCCE2 / SCOE2
	0	FEE2	-	USFEE2	-	ESFEE	-	-	-	-
	۵	FTE2	-	USFTE2	-	ESFTE	-	-	-	-
	0	FLE2	UCFLE2	USFLE2	EXFLE2	ESFLE2	LKFLE2+H	UKFLE2+H	SCC2/SCO2	SCCE2/SCOE2
	•	FL2/FL3	UCFL2/ UCFL3	USFL2	EXFL2/ EXFL3	ESFL2	LKFL2+H	UKFL2+H / UKFL3+H	SCC2/SCO2	SCCE2 / SCOE2
	•	FLZ2	UCFLZ2	USFLZ2	EXFLZ2	ESFLZ2	LKFLZ2+H	UKFLZ2+H	-	-
		FD2	-	USFD2	-	ESFD2	-	-	-	-
	O	FAE2	-	USFAE2	-	ESFAE2	-	-	-	-
	O 0	FA2	UCFA2	USFA2	EXFA2	ESFA2	LKFA2+H	UKFA2+H	SCC2/SCO2	SCCE2/SCOE2
		FS3	UCFS3	-	EXFS3	-	-	UKFS3+H	-	-
	8	T2/T3	UCT2 / UCT3	UST2	EXT2/EXT3	EST2	LKT2+H	UKT2+H / UKT3+H	SCC2/SCO2	SCCE2/SCOE2
		T2+WB	UCT2+WB	UST2+WB	EXT2+WB	EST2+WB	LKT2+H+WB	UKT2+H+WB	SCC2 / SCO2	SCCE2 / SCOE2
	0	SP2	UCSP2	USSP2	EXSP2	ESSP2	LKSP2+H	UKSP2+H	SCC2 / SCO2	SCCE2/SCOE2
	0	C2/C3	UCC2 / UCC3	USC2	EXC2/EXC3	ESC2	LKC2+H	UKC2+H / UKC3+H	-	
	0	EHE2	UCEHE2	USEHE2	EXEHE2	ESEHE2	LKEHE2+H	UKEHE2+H	-	-

Pressed Steel Housings with Chrome Steel Bearing Inserts

BEARING I				
HOUSINGS		U\$2G2	E\$2G2	
A	PP2	USPP2	ESPP2	
0	PF2	USPF2	ESPF2	
0	PFL2	USPFL2	ESPFL2	
۵	PFT2	USPFT2	ESPFT2	
	PFE2	USPFE2	ESPFE2	

Stainless Steel Housings with Stainless Steel Bearing Inserts

BEARING INSERTS / HOUSINGS		- DI		Q.	Suitable protective covers for combination with (available for shaft-Ø 12-60mm)*		
		SUC2	SUC2FG1**	SES2	SUC2 / SUC2FG1**	SES2	
4	SP2	SUCP2	SUCP2FG1	SESP2	SCC2 / SCO2	SCCE2 / SCOE2	
	SPA2	SUCPA2	SUCPA2FG1	SESPA2	SCC2 / SCO2	SCCE2 / SCOE2	
	SF2	SUCF2	SUCF2FG1	SESF2	SCC2 / SCO2	SCCE2 / SCOE2	
•	SFL2	SUCFL2	SUCFL2FG1	SESFL2	SCC2 / SCO2	SCCE2 / SCOE2	
	SFB2	SUCFB2	SUCFB2FG1	SESFB2	SCC2 / SCO2	SCCE2 / SCOE2	
5	ST2	SUCT2	SUCT2FG1	SEST2	SCC2 / SCO2	SCCE2 / SCOE2	

Thermoplastic Housings with Stainless Steel Bearing Inserts

BEARING INSERTS HOUSINGS		Ō	3	
		MUC2FD	SUC2FG1**	Suitable protective caps (available for shaft-Ø 15-40 mm)
9	PPL2	MUCPPL2	SUCPPL2FG1	CV2 / CF2
	TBL2	MUCTBL2	SUCTBL2FG1	CV2 / CF2
	FPL2		SUCFPL2FG1	CV2 / CF2
NFL2		MUCNFL2	SUCNFL2FG1	CV2 / CF2
FBL2		MUCFBL2	SUCFBL2FG1	CV2 / CF2

Material Handling

- » Bearings for smooth running
- » Special sealing solutions according to the materials
- » Resistance to customer application conditions
- » Developing and producing customized products according to handling process





Solutions for Silage Making









Agricultural Dryer













Agricultural Products Storage









Agricultural Machinery

- Seeding
- Tillage
- Combine harvesting
- Silage making
- Baling



NDUSTRIAL SOLUTIONS

Solutions for Seeding















Solutions for Combine Harvesting















Solutions for Tillage















Solutions for Baling















Food Processing Machinery

- Bakery
- Fruit & Vegetables Processing Lines
- Beverage Botteling Lines
- Bottle Washing
- Bottle Manufacturing
- Meat Processing
- Pasta Processing Lines
- Dairy
- Seafood
- Sauce
- Commercial Kitchens

Bakery







Pasta







Fruit, Vegetables & Sauce









Beverage









NDUSTRIAL SOLUTIONS

Meat









Dairy









Seafood / Bottle Washing







Bottle Manufacturing









Commercial Kitchens









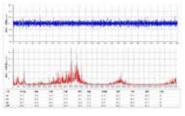




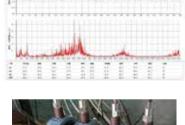
Air Handling (HVAC)

- Optimized bearing internal design
- » Longer life
- » Higher reliability
- More accurate rotation
- » Higher accuracy than P6
- Noise& vibration test EMQ standards
- » No abnormal noise
- » Trouble-free rotation
- Premium grease
- » Reliable lubrication performance
- » Increase grease service life
- » Extended bearing life











Air Handling (HVAC)

- Special material for sealing rubber
- Excellent anti-wear performance
- Prolong seal integrity
- Strong housing structure
- Better load distribution
- Safe and reliable
- Special AH housing fit
- Special design for air handling
- More stable
- Resistance to various conditions
- High temperature (up to 380 C)
- Dirty& moisty operating environment



Application Specific Solutions

High Speed Bearing Units

- High precision bearings for smooth and quite running
- Special bearing unit design
- High quality grease
- Increased service and bearing life
- Customized solutions for specific needs
- Low vibration



High Temperature Bearing Units

- Eco-friendly bearing units
- Smooth running at extreme temperatures
- Maintenance free solutions for cost savings
- Simple and easy replacement
- Special sealing design



Maintenance Free Bearing Units

- Extended bearing life
- High reliability
- Trouble free rotation
- Special sealing solutions
- Strong housing structure

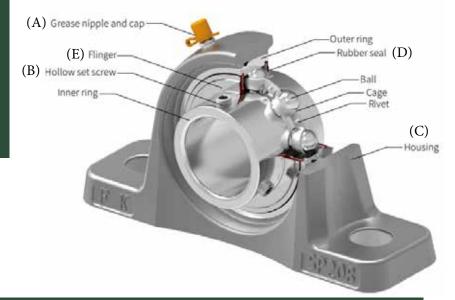


IP69K Test

The product is placed on a turntable that rotates five times a minute. It's sprayed at 80 to 100 bar/1,160 to 1,450 PSI, in phases of 14 to 16 l/min, and at temperatures up to 176° F/80° C. The nozzle must be within four to six inches from the product, and the spray must be directed from four different angles (0°, 30°, 60°, and 90°) for 30 seconds at a time. The product is given the IP69K rating if it completely resists water ingress under these conditions.



Application Specific Solutions



Corrosion Resistant Bearing Units

- (A) Grease nipple: For lubricating food grade grease.
- **(B) Hollow set screw:** Two hollow set screws ensure easy and firm mounting on a shaft
- **(C) Housing:** Stainless steel housing or PBT plastic housing
- **(D) Rubber seal:** NBR or silicon rubber seal placed between the inner ring and the outer ring prevent grease from leaking as well as preventing moisture and dust from entry.
- **(E) Flinger:** Stainless steel flinger excludes dust efficiently

Typical Applications

















