

# KINEX BEARINGS

Housed Units

# HOUSED UNITS

Versatile Solutions for Precise, Reliable Equipment Support



## Basic characteristic

Housed units are critical components across many industries, providing secure, stable mounting and easy maintenance for bearings in a variety of applications. They help manage heavy loads, adjust tension, and accommodate different shaft configurations, all while protecting the bearing from contaminants and ensuring smooth operation.



Housed units are a combination of insert bearings and a bearing housing, which can be in different shapes. Bearing units are supplied pre-assembled. Bearings contain lubricant for longer life. If necessary, the units can be additionally lubricated. The threaded bore for mounting a lubricator is closed with a plastic plug. The lubricator is a part of the supply and is packaged separately.

## Insert bearings

Insert bearings are single-row ball bearings with double seal on both sides. The outer ring has a spherical surface and can therefore tilt in the housing to compensate any misalignments between the shaft and the housing. The inner ring is wider than the outer ring and is mounted to the shaft using an eccentric adapter ring or screws.

## Bearing Housings

Bearing housings include pillow block units (the P construction design), flanged units (the F construction design) and take-up units (the T construction design). Bearing housings are made of grey cast iron as a standard. In special cases, a supply from another material may be arranged. All external surfaces of the bearing housing that are not machined are protected by paint. Functional machined surfaces are protected by an anti-corrosion protective layer, which is easily removable during mounting.

## Misalignment

Bearing units are self-aligning due to the spherical shape of the seat and bearing. A bearing unit allows angular movement in all directions. This solution to some extent compensates the misalignment of the shaft.

## Boundary Dimensions of Bearing Housings

The boundary dimensions of bearing housings comply with ISO 3228.

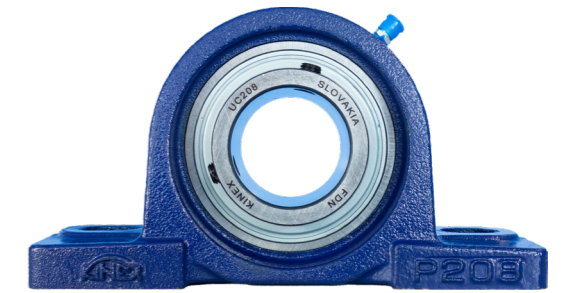
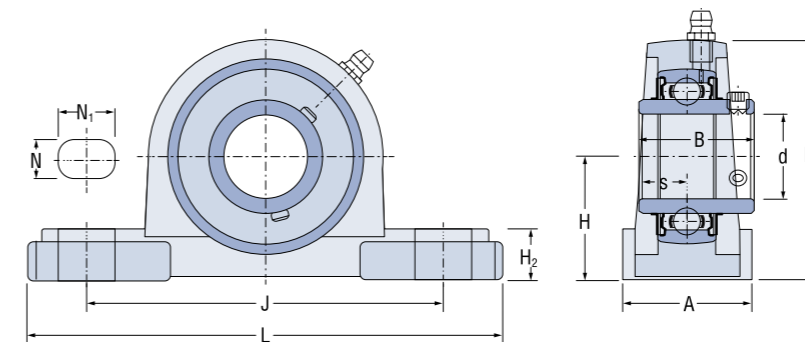
## Replaceability of Bearings

Insert bearings in the bearing unit are replaceable. In the event of a bearing malfunction, a new bearing can be mounted in the existing bearing housing.

## Designation

The designation of the bearing units is given in the table section, which also contains the designation of the respective bearing and bearing housing.

## Plummer Block Housed Unit



Bloc bearing	Dimensions (mm)											Bolt size	Bearing	Housing	Weight kg
	d	L	J	A	N	N1	H	H1	H2	B	S				
UCP201	12	127	95	38	13	19	30.2	62	14	31.0	12.7	M10	UC201	P203	0.7
UCP202	15	127	95	38	13	19	30.2	62	14	31.0	12.7	M10	UC202	P203	0.7
UCP203	17	127	95	38	13	19	30.2	62	14	31.0	12.7	M10	UC203	P203	0.7
UCP204	20	127	95	38	13	19	33.3	65	14	31.0	12.7	M10	UC204	P204	0.7
UCP205	25	140	105	38	13	19	36.5	70	15	34.1	14.3	M10	UC205	P205	0.8
UCP206	30	165	121	48	17	21	42.9	83	17	38.1	15.9	M12	UC206	P206	1.3
UCP207	35	167	127	48	17	21	47.6	92	18	42.9	17.5	M12	UC207	P207	1.6
UCP208	40	184	137	54	17	21	49.2	98	18	49.2	19.0	M12	UC208	P208	1.9
UCP209	45	190	146	54	17	21	54.0	106	20	49.2	19.0	M12	UC209	P209	2.2
UCP210	50	206	159	60	20	25	57.2	112	21	51.6	19.0	M16	UC210	P210	2.6
UCP211	55	219	171	60	20	25	63.5	126	22	55.6	22.2	M16	UC211	P211	3.3
UCP212	60	241	184	70	20	25	69.8	137	25	65.1	25.4	M16	UC212	P212	4.6
UCP213	65	265	203	70	25	29	76.2	150	27	65.1	25.4	M20	UC213	P213	5.9
UCP214	70	266	210	72	25	30	79.4	156	27	74.6	30.2	M20	UC214	P214	6.6
UCP215	75	275	217	74	25	30	82.6	163	28	77.8	33.3	M20	UC215	P215	7.4
UCP216	80	292	232	78	25	30	88.9	175	30	82.6	33.3	M20	UC216	P216	9.0
UCP217	85	310	247	83	25	30	95.2	187	32	85.7	34.1	M20	UC217	P217	11.0
UCP218	90	327	262	88	27	33	101.6	200	34	96.0	39.7	M22	UC218	P218	13.0

Plummer block housed units are versatile and robust, supporting high loads while protecting bearings from harsh conditions. These units are frequently used in heavy-duty conveyors in mining, where they endure heavy radial loads and rough conditions. In steel and paper mills, plummer blocks stabilize roller shafts, while in industrial facilities, they support pumps and fans, ensuring alignment and reducing vibrations. Their easy-access design allows for quick maintenance.

## Applications

- Harvesting Machinery, Tractors and Attachments, Seed Planters, Irrigation Systems in Agriculture Industry
- Heavy-Duty Conveyors in Mining and Quarrying
- Pumps and Fans in Industrial Facilities
- Roller Shafts in Steel and Paper Mills
- Rail and Transportation Systems

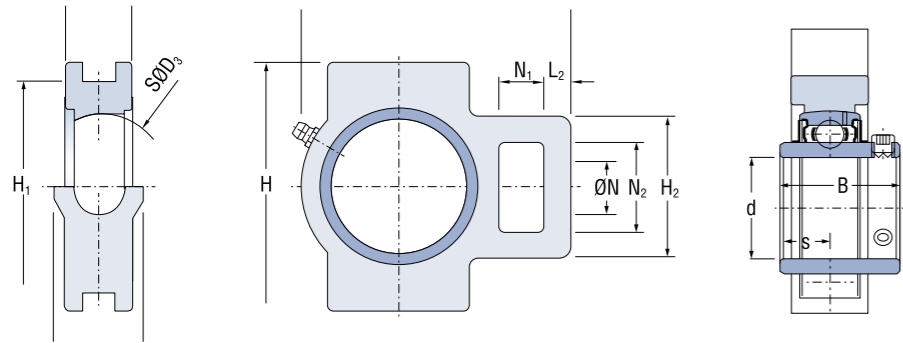


# HOUSED UNITS

Versatile Solutions for Precise, Reliable Equipment Support



## Take-Up Housed Units



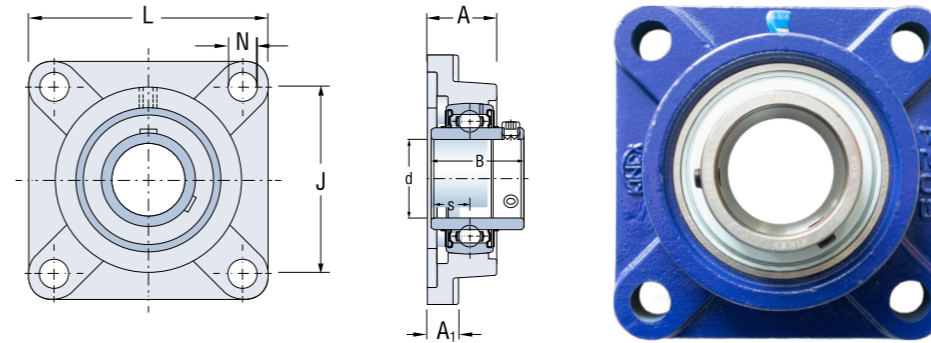
Block bearing	d	B	s	L	L1	L2	L3	H	H1	H2	A	A1	A2	N	N1	N2	Bearing	Housing	Weight
UCT203	17	31.0	12.7	94	61	10	51	89	76	51	32	12	21	19	16	32	UC203	T204	0.8
UCT204	20	31.0	12.7	94	61	10	51	89	76	51	32	12	21	19	16	32	UC204	T204	0.8
UCT205	25	34.1	14.3	97	62	10	51	89	76	51	32	12	24	19	16	32	UC205	T205	0.9
UCT206	30	38.1	15.9	113	70	10	57	102	89	56	37	12	28	22	16	37	UC206	T206	1.3
UCT207	35	42.9	17.5	129	78	13	64	102	89	64	37	12	30	22	16	37	UC207	T207	1.7
UCT208	40	49.2	19.0	144	88	16	83	114	102	83	49	16	33	29	19	49	UC208	T208	2.3
UCT209	45	49.2	19.0	144	87	16	83	117	102	83	49	16	35	29	19	49	UC209	T209	2.4
UCT210	50	51.6	19.0	149	90	16	86	117	102	83	49	16	37	29	19	49	UC210	T210	2.5
UCT211	55	55.6	22.2	171	106	19	95	146	130	102	64	22	38	35	25	64	UC211	T211	4.0
UCT212	60	65.1	25.4	194	119	19	102	146	130	102	64	22	42	35	32	64	UC212	T212	4.9
UCT213	65	65.1	25.4	224	137	21	121	167	151	111	70	26	44	41	32	70	UC213	T213	7.0
UCT214	70	74.6	30.2	224	137	21	121	167	151	111	70	26	46	41	32	70	UC214	T214	7.1
UCT215	75	77.8	33.3	232	140	21	121	167	151	111	70	26	48	41	32	70	UC215	T215	7.5
UCT216	80	82.6	33.3	235	140	21	121	184	165	111	70	26	51	41	32	70	UC216	T216	8.2
UCT217	85	85.7	34.1	260	162	29	157	198	173	124	73	30	54	48	38	73	UC217	T217	11.0

Take-up housed units play a crucial role in maintaining tension in systems where belts, chains, or cables are essential for operation. These units are designed to accommodate elongation caused by wear, load changes, or thermal expansion, ensuring continuous and efficient performance. By providing a simple yet effective method of tension adjustment, they help minimize downtime and extend the lifespan of equipment. In conveyor systems commonly found in manufacturing, mining, and bulk material handling, take-up housed units are indispensable for smooth material transport. They allow for precise tensioning, preventing slippage and maintaining consistent operation under heavy loads. Similarly, in elevators and hoists, these units provide critical support.

### Applications

- Tension Adjustment for Conveyor Belts in Manufacturing and Mining
- Heavy-Duty Conveyors Transporting Raw Materials and Clinker in Cement Industry
- Elevators and Hoists
- Drive Chains in Bulk Material Handling
- Conveyor belts in Automated Packaging Lines
- Conveyor systems in food processing lines
- Shredders and Crushers in Recycling Plants
- Airport Baggage Handling Systems
- Agricultural Equipment as grain elevators and bale conveyors

## Four-Bolt Flanged Housed Units

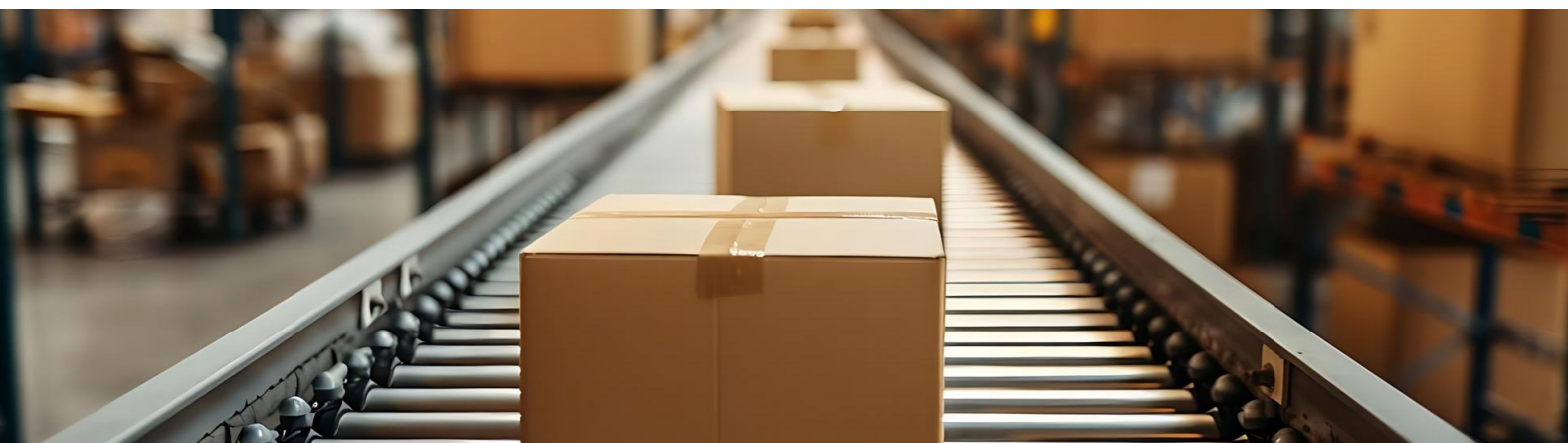


Block bearing	d	L	J	B	A	A1	N	S	Bolt size	Bearing	Housing	Weight
UCF203	17	86	64	31	33.3	12	12	12.7	M10	UC203	F204	0.6
UCF204	20	86	64	31	33.3	12	12	12.7	M10	UC204	F204	0.7
UCF205	25	95	70	34.1	35.8	14	12	14.3	M10	UC205	F205	0.9
UCF206	30	108	83	38.1	40.2	14	12	15.9	M10	UC206	F206	1.1
UCF207	35	117	92	42.9	44.4	16	14	17.5	M12	UC207	F207	1.5
UCF208	40	130	102	49.2	51.2	16	16	19	M14	UC208	F208	1.9
UCF209	45	137	105	49.2	52.2	18	16	19	M14	UC209	F209	2.3
UCF210	50	143	111	51.6	54.6	18	16	19	M16	UC210	F210	2.7
UCF211	55	162	130	55.6	58.4	20	19	22.2	M16	UC211	F211	3.9
UCF212	60	175	143	65.1	68.7	20	19	25.4	M16	UC212	F212	4.7
UCF213	65	187	149	65.1	69.7	22	19	25.4	M16	UC213	F213	5.7
UCF214	70	193	152	74.6	75.4	22	19	30.2	M16	UC214	F214	6.1
UCF215	75	200	159	77.8	78.5	22	19	33.3	M16	UC215	F215	6.9
UCF216	80	208	165	82.6	83.3	22	23	33.3	M20	UC216	F216	8.1
UCF217	85	220	175	85.7	87.6	24	23	34.1	M20	UC217	F217	9.3
UCF218	90	235	187	96	96.3	24	23	39.7	M20	UC218	F218	11.0

Four-bolt flanged housed units offer a stronger, more stable mounting option for heavy-duty applications, making them ideal for large, high-load equipment. Commonly used in manufacturing plants, they provide secure support for conveyor systems and processing equipment. In industries like chemical processing and power generation, four-bolt flange units ensure reliable operation of pumps, agitators, and other rotating machinery. These units are also used in construction and large agricultural equipment, where durability is essential.

### Applications

- Heavy-Duty Conveyor Systems in Manufacturing Plants
- Equipment in the Chemical and Power Industries
- Large Agricultural and Construction Equipment
- Mining and Quarrying Equipment
- Marine Applications
- Cement and Aggregates Processing
- Forestry and Lumber Mills

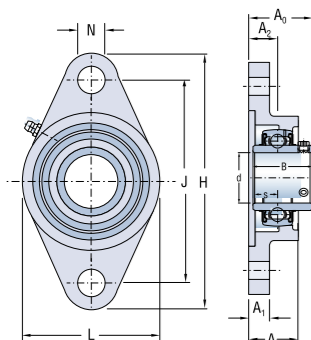


# HOUSED UNITS

Versatile Solutions for Precise, Reliable Equipment Support



## Two-Bolt Flanged Housed Units



Block bearing	Dimensions (mm)										Bolt size	Bearing	Housing	Weight kg
	d	H	J	L	A	A1	A2	A0	N	s				
UCFL201	12	113	90	60	25,5	12	15	33,3	12	12,7	M10	UC201	FL204	0.5
UCFL202	15	113	90	60	25,5	12	15	33,3	12	12,7	M10	UC202	FL204	0.5
UCFL203	17	113	90	60	25,5	12	15	33,3	12	12,7	M10	UC203	FL204	0.5
UCFL204	20	113	90	60	25,5	12	15	33,3	12	12,7	M10	UC204	FL204	0.5
UCFL205	25	130	99	68	27	14	16	35,8	16	14,3	M14	UC205	FL205	0.6
UCFL206	30	148	117	80	31	14	18	40,2	16	15,9	M14	UC206	FL206	0.9
UCFL207	35	161	130	90	34	16	19	44,4	16	17,5	M14	UC207	FL207	1.2
UCFL208	40	175	144	100	36	16	21	51,2	16	19	M14	UC208	FL208	1.5
UCFL209	45	188	148	108	38	18	22	52,2	19	19	M16	UC209	FL209	1.9
UCFL210	50	197	157	115	40	18	22	54,6	19	19	M16	UC210	FL210	2.2
UCFL211	55	224	184	130	43	18	25	58,4	18	22,2	M16	UC211	FL211	3.1
UCFL212	60	250	202	140	48	18	29	68,7	18	25,4	M16	UC212	FL212	4.0
UCFL213	65	258	210	155	50	20	30	69,7	23	25,4	M20	UC213	FL213	5.0
UCFL214	70	265	216	160	54	20	31	75,4	23	30,2	M20	UC214	FL214	5.6
UCFL215	75	275	225	164	55	22	34	78,5	23	33,3	M20	UC215	FL215	6.0
UCFL216	80	290	233	180	58	22	34	83,3	25	33,3	M22	UC216	FL216	7.8
UCFL217	85	305	248	190	63	22	36	87,6	25	34,1	M22	UC217	FL217	9.8
UCFL218	90	320	265	205	68	23	40	96,3	25	39,7	M22	UC218	FL218	12.4

These units are compact, allowing them to fit in tighter spaces while providing secure shaft support. Their two-bolt design is ideal for wall-mounted or ceiling-mounted applications in conveyors, especially in food processing and agricultural machinery, where space is limited. These units are commonly used in small conveying systems where they handle moderate loads with reliability. Two-bolt flange units offer easy installation and are highly adaptable.

### Applications

- Wall-Mounted Conveyors and Small Conveying Systems
- Food Processing Equipment with Compact Designs
- Agricultural Equipment for Smaller Machinery
- Fans and Blowers in HVAC Installations
- Mixers, Blenders, and Conveyors in Pharmaceutical Manufacturing

## Packaging for Housed Units

At KINEX BEARINGS, we understand that the journey of delivering high-quality bearings extends beyond production. That's why our packaging is designed to ensure that every bearing reaches you in perfect condition, ready for use.



### Protection First

Our packaging is engineered to provide superior protection against impact, moisture, and contamination, preserving the integrity and performance of each bearing.

### Clearly Labeled

Every package is labeled with detailed product information, including bearing type, making identification quick and easy.

### Secure Sealing

Each package is securely sealed to prevent contamination, ensuring your KINEX bearings arrive in optimal condition, ready for immediate application.

### Precision Packaged for Any Industry

Our packaging solutions are tailored to meet the diverse needs of industries like automotive, railway, agriculture, mining, and more, ensuring the quality and reliability of our products are preserved every step of the way.

### Durability & Safety

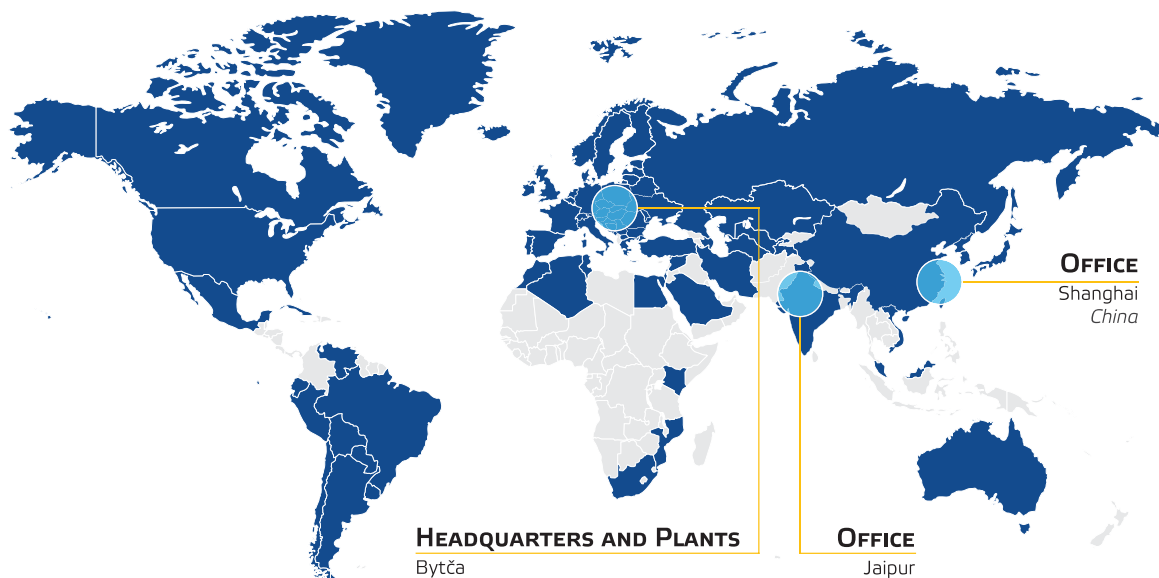
Strong, reliable packaging materials safeguard our bearings during transport and storage, preventing damage from external factors like vibration or temperature changes and moisture.

### Eco-Friendly Materials

We are committed to sustainability and use environmentally friendly packaging materials wherever possible, ensuring minimal environmental impact.



## YOUR PARTNER FOR INDUSTRY

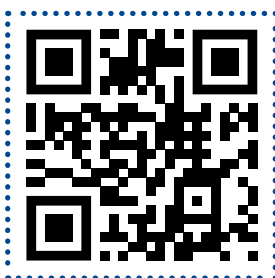


**BLUE TERRITORIES**  
KINEX trademark registration

**HEADQUARTERS AND PLANTS**  
Bytča  
Kysucké Nové Mesto  
Slovakia

**OFFICE**  
Jaipur  
India

**OFFICE**  
Shanghai  
China



> Contact  
KINEX BEARINGS, a.s.  
1.mája 71/36  
014 83 Bytča  
Slovakia  
+421 41 5556 620  
marketing@kinexbearings.sk  
www.kinex.sk

