

EXS – STAINLESS STEEL 316 PILLOW BLOCK HOUSING

Foot-mounted bearing housing · AISI 316 stainless steel · Shaft sizes 22 mm – 110 mm

TECHNICAL SPECIFICATIONS

Specification	Description
Product	Stainless Steel 316 Pillow Block Housing
Type	EXS
Alternative names	Pillow Block Bearing Housing, Plummer Block Housing, Pedestal Bearing Housing
Housing material	Stainless Steel 316 (AISI 316)
Construction	Heavy duty
Mounting style	Foot mounted
Shaft sizes	22 mm – 110 mm, including standard inch sizes
Application	Industrial machinery
Configuration	Extreme Bearing Product Chooser
Target market	OEMs, Machine Builders & System Integrators

EXS STAINLESS STEEL 316 PILLOW BLOCK HOUSING

Like all Extreme Bearing housings, the **EXS Stainless Steel 316 Pillow Block Housing** delivers reliable performance in demanding industrial applications where corrosion resistance, durability, and long service life are essential. Furthermore, the EXS design provides a strong and flexible solution for

industries that require higher performance levels than standard bearing housings can offer.

Extreme Bearing manufactures the EXS from **AISI 316 stainless steel** to create a robust and hygienic **foot-mounted bearing housing solution** for rotating shafts in challenging environments. In addition, the heavy-duty construction supports continuous operation in applications such as conveyors, screw pumps, agitators, processing equipment, and wash-down machinery.

Moreover, the choice of bearing housing material directly influences the lifetime and reliability of the complete bearing assembly. Therefore, Extreme Bearing selects Stainless Steel 316 for every **Pillow Block Housing** to achieve outstanding corrosion resistance, excellent structural integrity, and dependable long-term performance.

As a result, the EXS Pillow Block Housing provides a durable and reliable foundation for bearing solutions used in harsh industrial environments.

DIMENSIONS AND PRODUCT SELECTION

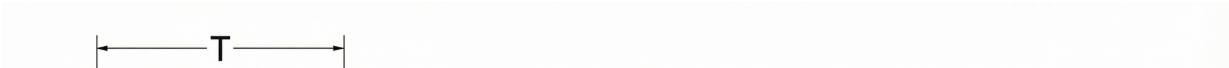
Extreme Bearing offers **EXS Stainless Steel 316 Pillow Block Housings** for shaft sizes ranging from **22 mm to 110 mm**, including all standard inch shaft sizes within this range. Furthermore, the housing dimensions match the specifications of most leading mounted ball bearing unit brands, making replacement and integration into existing machine designs straightforward.

In addition, engineers can configure the **EXS Stainless Steel 316 Pillow Block Housing** according to specific application requirements, including:

- Bearing type
- Shaft size
- Shaft fixation method
- Sealing solution
- Lubrication concept
- Horizontal load capacity
- Vertical load capacity
- Maximum operating speed (RPM)
- Operating temperature range
- Self-aligning capability

Moreover, the **Extreme Bearing Product Chooser** helps engineers select the optimal bearing unit by evaluating the required performance characteristics and application parameters. As a result, users can quickly configure a bearing solution that matches their machine requirements and operating conditions.

EXS PILLOW BLOCK HOUSING DIMENSIONS AND MOUNTING SPECIFICATIONS



HOUSING	B (MM)	C (MM)	H1 (MM)	H2 (MM)	J (MM)	L (MM)	N (MM)	T (MM)	N1 (MM)
025	25	44	36.5	12	102	130	20	54.6	12
030	26	48	42.9	12	118	152	24	60	14
035	28	50	47.6	12	124	160	24	61.1	14
040	28	51	49.2	15	136	175	25	62	14
045	32	57	54	15	144	187	23	69.6	14
050	34	60	57.2	18	157	203	26	73.6	18
055	34	62	65.5	18	152	219	28	80.6	18
060	36	66	69.8	20	191	240	30	79	18
065	42	42	76.2	20	203	257	35	91.5	22
070	46	77	85.5	20	200	266	30	104	23
075	47	87	82.5	24	217	275	30	104.5	23
080	48	84	95	27	232	292	35	104.5	23
090	52	87	105	28	262	327	35	122.5	27
100	59	104	115	30	308	380	48	127.7	26

14 housing sizes · EXS

Download a PDF with the exact dimensions of the best-fitting pillow block configuration—just a few clicks away 😊

LOAD DIRECTIONS FOR THE EXS PILLOW BLOCK HOUSING

The EXS Pillow Block Housing handles applications where loads act **vertically towards the base plate support**. For optimal performance, engineers should direct the applied forces through the housing base and into the machine structure by using a properly supported mounting surface.

When the complete housing base area receives support, the selected bearing insert and its load rating primarily determine the permissible load capacity. Therefore, engineers should select the correct bearing insert carefully to achieve reliable operation under the expected working conditions.

Furthermore, applications with loads acting in other directions require additional analysis. In these situations, engineers must evaluate the connection between the housing and the machine frame to determine the allowable load capacity. The bolt assembly and machine structure must transfer the applied forces safely to maintain stable and reliable operation.

In addition, engineers should always verify that the selected mounting configuration matches the actual operating conditions. This approach reduces unnecessary stress on the housing, bolts, and surrounding machine structure while improving overall system reliability.

Recommended Installation Principle:

- Direct vertical loads towards the mounting base to achieve optimal load transfer
- Support the complete housing base area whenever possible
- Evaluate non-standard load directions based on bolt and frame capacity
- Select the bearing insert according to the expected operating loads

