



上海工厂

赫莱特 Hallite

百年密封应用的实践经验

自1903年，赫莱特为世界流体动力工业提供高性能的液压密封解决方案。赫莱特以品质优良和可靠性高而闻名，在移动液压系统、采矿、越野车辆、建筑、农业、机械装卸以及自动控制等市场，享有令人羡慕的声誉。

一流的研发创新实力

赫莱特的产品采用各种先进的材料进行设计制造，由于在极其苛刻、安全性能至关重要的高标准工作场合表现优异而受到诸多行业生产制造商的青睐。

遍布全球的服务网络

来自英国汉普顿、中国上海/苏州和美国休斯敦的研发基地以及其他工厂和运营公司的员工致力于在尽可能短的时间内提供最佳的密封解决方案和优质的密封件产品。

Over Hundred Years of Sealing Experience and Solutions

Hallite produces high performance hydraulic sealing solutions for the world's fluid power industry since 1903. Hallite enjoys an enviable reputation for high quality and reliability within the mobile hydraulics ,mining , off-highway , construction, agriculture , mechanical handling and automation markets.

Leading Edge Technologies

Hallite products, engineered in a wide variety of advanced high performance materials, are chosen by world class leading manufacturers for their exceptional consistent performance in their most demanding , safety-critical high specification applications.

Global Servicing Network

Three world-wide manufacturing facilities located in Hampton UK, Wixom US and Shanghai/Suzhou China. In addition, there are two world class R&D centers in Houston USA and Hampton UK. Hallite's engineering staff are all committed to provide optimum sealing solutions and quality seals in the shortest possible time.

苏州工厂



Hallite produces high performance hydraulic sealing solutions for the world's fluid power industry. The company enjoys an enviable reputation for high quality and reliability within the mobile hydraulics, mining, off-highway, construction, agriculture, mechanical handling and automation markets.

Hallite products, engineered in a wide variety of advanced materials, are chosen by leading manufacturers for their exceptional performance in the most demanding, safety-critical high specification applications.

Hallite operations are located in Australia, Canada, China, India, Germany, Italy, the UK and the USA. All Hallite locations are committed to providing quality seals in the shortest possible time. Hallite combines carefully chosen and managed stocks in local markets, supported by a fast track moulding capability. All locations can now boast a CNC machining cell, branded Hallite Service, which can provide immediate delivery for non-standard and breakdown situations.

Additionally a worldwide network of service partners completes the global presence and ensures the full range of Hallite products is readily accessible.



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Hallite 708

Bearing 导向环



技术参数 Technical Details 公制 Metric

工作条件	Operating Conditions	
温度范围	Temperature Range	-40°C to+100°C
最大速度	Maximum Speed	5.0m/sec

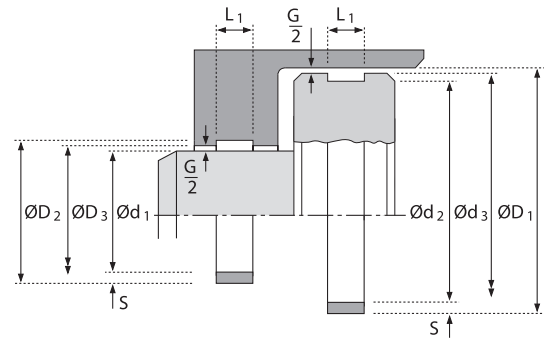
典型物理特性	Typical Physical Properties	
比重	Specific Gravity	1.42
拉伸强度	Tensile Strength	(Temp 23°C) 57 MN/m²
动摩擦系数	Coefficient of Dynamic Friction	干 Dry 润滑 Lubricated
(钢表面 steel surface, 0.2 µm Ra/ 8 µin CLA)		0.22 0.05

表面粗糙度	Surface Roughness	µmRa	µmRt
动密封面	Dynamic Sealing Face Ød _i	0.4	4 max
静密封面	Static Sealing Face ØD _i L ₁	3.2 max	16 max

导向带公差	Bearing Tolerance	L ₁	S
		-0.1 to-0.6	-0.02 to-0.1

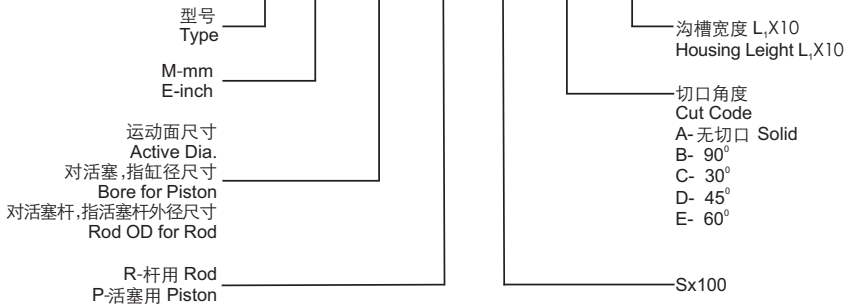
导向环开口宽度	Bearing Gap Installed - W	Ød _i / ØD _i	W
		≤ 50	3.00 - 1.50
		≤ 120	5.00 - 3.50
		≤ 550	7.00 - 5.50

沟槽设计和公差	Housing Details & Tolerances	
活塞杆 Rod	Ød _i	f9
	ØD ₂ = Ød _i + 2S	≤Ø80 H10
		> Ø80 H9
	ØD ₃ = Ød _i + G	G min / max
	L ₁	+ 0.2 -0 mm
活塞 Piston	ØD _i	H11
	Ød ₂ =ØD _i -2S	f9
	Ød ₃ = ØD _i - G	G min / max
	L ₁	+ 0.2 -0 mm



订货说明 Part Number Example

708MXXXXRXXDXXX



708



设计说明 Design

赫莱特708导向环是由先进的特殊材料制造而成，特别适用于重载油缸应用中，比如采矿工业的液压支架和林业装备。该材料具有优异的承载和耐磨能力。纤维填充的导向环不适用于极端应用中，此时，708导向环是最理想的选择。

赫莱特708具有良好的导向性能，可以减少“钢碰钢”的现象出现，所有708导向环都是完全车削而成，可达到更高的精度要求。

赫莱特708导向环是应用于重载应用中最先进的导向环，不仅安装简便，而且能延长设备的使用寿命。

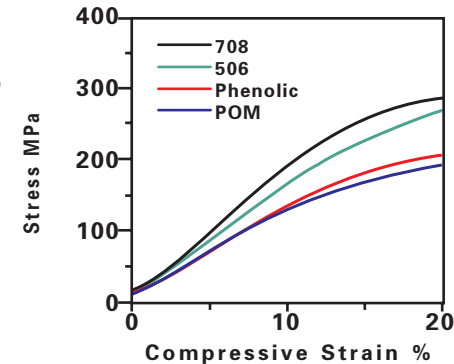
Hallite 708 bearings are manufactured from advanced proprietary material developed for use in heavy duty cylinder applications, such as mining roof supports and forestry equipment. The material has exceptional load bearing and wear resistant capabilities. The 708 is ideal for extreme applications where fiber filled bearings are not suitable.

For better alignment and lower risk for metal-to-metal contact between moving parts, all Hallite 708 bearings are fully machined to tight tolerance on thickness.

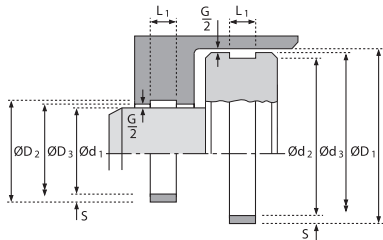
The Hallite 708 is the most advanced bearing for heavy-duty applications. It is simple to install and will extend equipment service life.

特点 Features

- 0 吸水 Zero Water Absorption
 - 抗压能力高 High Compressive Strength
 - 耐磨 Good Wear Resistant
 - 低摩擦力 Low Friction
 - 安装简便 Easy Installation
 - 活塞用导向环开口成交叠状 Piston (overlap)
 - 活塞杆用导向环开口成打开状 Rod (open gap)
 - 对于维修市场，可根据修改后的沟槽尺寸加工成环环 For MRO, bearing can be machined to modified groove
- 直径可以加工到 500mm OD machine up to 500mm
宽度可以加工到 60mm L1 machine up to 60mm
厚度可以加工到 3.5mm S machine up to 3.5mm



708



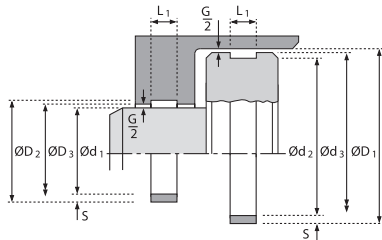
Ød ₁ Tol f9	ØD ₂ Tol H10	L ₁ +0.2 -0	S	PART No.
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45	50	9.7	2.5	708M045R250D097
45	50	15	2.5	708M045R250D150
50	55	5.6	2.5	708M050R250D056
50	55	15	2.5	708M050R250D150
55	60	20	2.5	708M055R250D200
60	65	15	2.5	708M060R250D150
60	65	20	2.5	708M060R250D200
63	68	15	2.5	708M063R250D150
63	68	20	2.5	708M063R250D200
70	75	15	2.5	708M070R250D150
70	75	20	2.5	708M070R250D200
80	85	15	2.5	708M080R250D150
85	90	13	2.5	708M085R250D130
85	90	15	2.5	708M085R250D150
85	90	20	2.5	708M085R250D200
85	90	25	2.5	708M085R250D250
90	95	15	2.5	708M090R250D150
90	95	20	2.5	708M090R250D200
100	105	20	2.5	708M100R250D200
100	105	25	2.5	708M100R250D250
105	110	15	2.5	708M105R250D150
105	110	20	2.5	708M105R250D200
105	110	25	2.5	708M105R250D250
115	120	20	2.5	708M115R250D200
115	120	25	2.5	708M115R250D250
120	125	15	2.5	708M120R250D150
120	125	20	2.5	708M120R250D200
120	125	25	2.5	708M120R250D250
130	135	15	2.5	708M130R250D150
130	135	20	2.5	708M130R250D200
140	145	20	2.5	708M140R250D200
160	165	20	2.5	708M160R250D200
160	165	25	2.5	708M160R250D250
170	175	20	2.5	708M170R250D200
185	190	20	2.5	708M185R250D200
185	190	25	2.5	708M185R250D250

Ød ₁ Tol f9	ØD ₂ Tol H10	L ₁ +0.2 -0	S	PART No.
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190	195	20	2.5	708M190R250D200
210	215	15	2.5	708M210R250D150
210	215	25	2.5	708M210R250D250
210	215	30	2.5	708M210R250D300
220	225	20	2.5	708M220R250D200
230	235	20	2.5	708M230R250D200
230	235	25	2.5	708M230R250D250
230	235	30	2.5	708M230R250D300
235	240	20	2.5	708M235R250D200
235	240	30	2.5	708M235R250D300
240	245	30	2.5	708M240R250D300
250	255	25	2.5	708M250R250D250
250	255	30	2.5	708M250R250D300
260	265	20	2.5	708M260R250D200
260	265	25	2.5	708M260R250D250
260	265	30	2.5	708M260R250D300
275	280	30	2.5	708M275R250D300
280	285	25	2.5	708M280R250D250
280	285	30	2.5	708M280R250D300
290	295	25	2.5	708M290R250D250
290	295	30	2.5	708M290R250D300
295	300	25	2.5	708M295R250D250
295	300	30	2.5	708M295R250D300
320	325	30	2.5	708M320R250D300
340	345	20	2.5	708M340R250D200
340	345	30	2.5	708M340R250D300
355	360	30	2.5	708M355R250D300
360	365	25	2.5	708M360R250D250
360	365	30	2.5	708M360R250D300
380	385	20	2.5	708M380R250D200
380	385	30	2.5	708M380R250D300
395	400	30	2.5	708M395R250D300
400	405	30	2.5	708M400R250D300
430	435	30	2.5	708M430R250D300
470	475	30	2.5	708M470R250D300

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ØD ₁ Tol H11	Ød ₂ Tol f9	L ₁ +0.2 -0	S	PART No.
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63	58	5.6	2.5	708M063P250D056
63	58	9.7	2.5	708M063P250D097
80	75	9.7	2.5	708M080P250D097
80	75	15	2.5	708M080P250D150
80	75	20	2.5	708M080P250D200
100	95	15	2.5	708M100P250D150
100	95	20	2.5	708M100P250D200
110	105	15	2.5	708M110P250D150
110	105	20	2.5	708M110P250D200
125	120	20	2.5	708M125P250D200
125	121	22	2	708M125P200D220
140	134	12.8	3	708M140P300D128
140	135	20	2.5	708M140P250D200
140	135	25	2.5	708M140P250D250
160	155	15	2.5	708M160P250D150
160	155	20	2.5	708M160P250D200
160	155	25	2.5	708M160P250D250
165	159	25	3	708M165P300D250
180	174	12.8	3	708M180P300D128
180	175	15	2.5	708M180P250D150
180	175	20	2.5	708M180P250D200
180	175	25	2.5	708M180P250D250
200	195	15	2.5	708M200P250D150
200	195	20	2.5	708M200P250D200
200	195	25	2.5	708M200P250D250
200	195	40	2.5	708M200P250D400
210	205	20	2.5	708M210P250D200

ØD ₁ Tol H11	Ød ₂ Tol f9	L ₁ +0.2 -0	S	PART No.
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230	225	15	2.5	708M230P250D150
230	225	20	2.5	708M230P250D200
230	225	25	2.5	708M230P250D250
230	225	30	2.5	708M230P250D300
250	245	20	2.5	708M250P250D200
250	245	25	2.5	708M250P250D250
250	245	30	2.5	708M250P250D300
260	255	30	2.5	708M260P250D300
270	265	30	2.5	708M270P250D300
280	275	20	2.5	708M280P250D200
280	275	25	2.5	708M280P250D250
280	275	30	2.5	708M280P250D300
290	285	30	2.5	708M290P250D300
300	295	25	2.5	708M300P250D250
300	295	30	2.5	708M300P250D300
305	300	30	2.5	708M305P250D300
320	315	20	2.5	708M320P250D200
320	315	25	2.5	708M320P250D250
320	315	30	2.5	708M320P250D300
345	340	30	2.5	708M345P250D300
360	355	30	2.5	708M360P250D300
380	375	30	2.5	708M380P250D300
400	395	30	2.5	708M400P250D300
420	414	30	3	708M420P300D300
420	415	30	2.5	708M420P250D300
450	445	30	2.5	708M450P250D300
500	495	30	2.5	708M500P250D300