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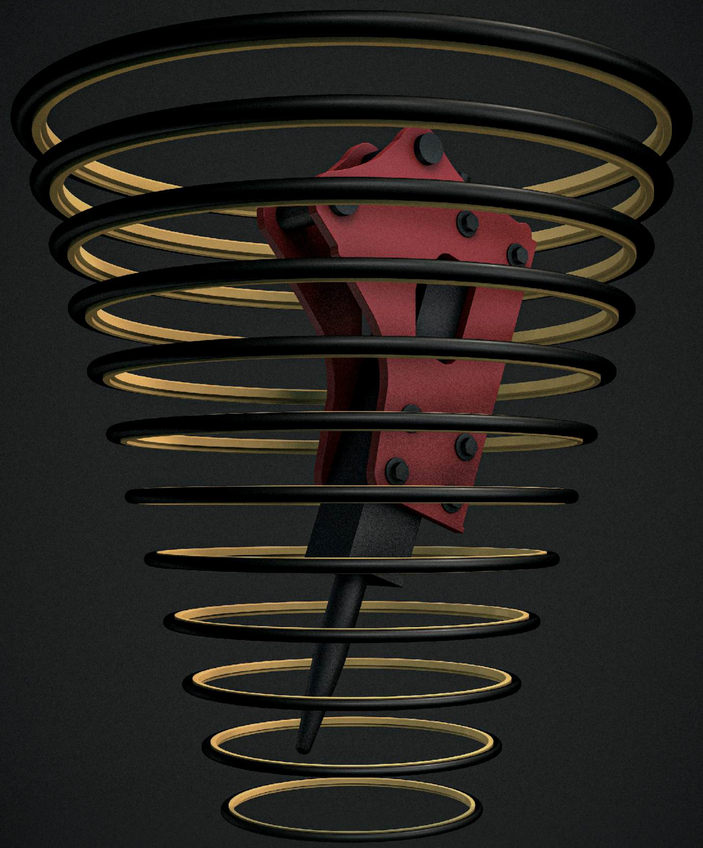
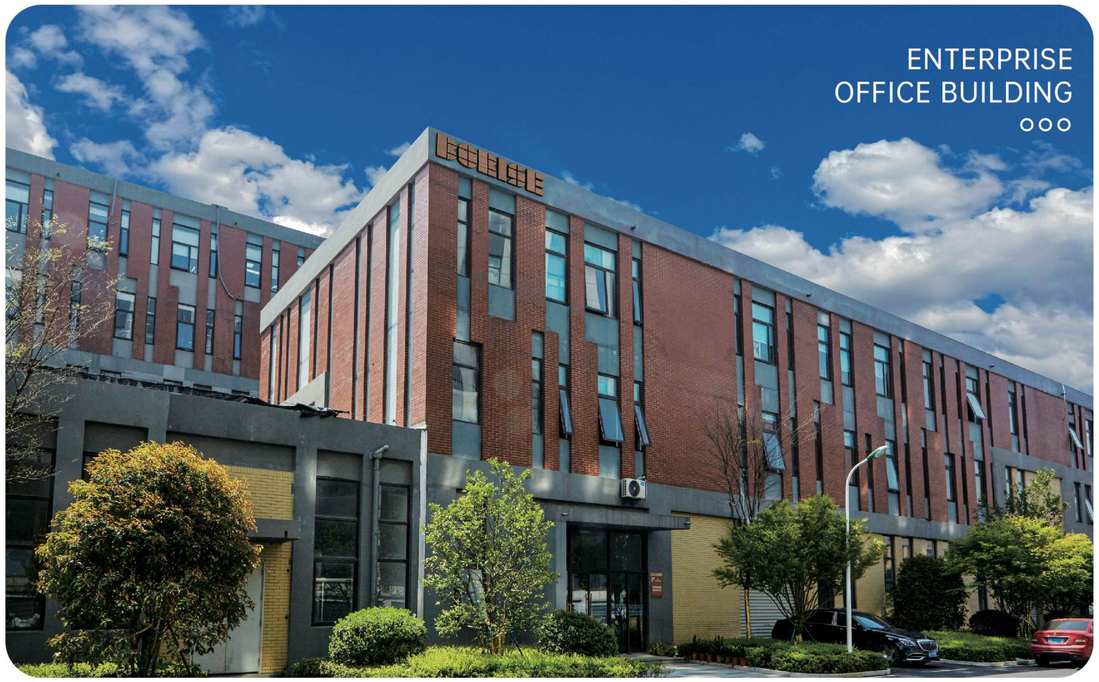
博瑞斯
BORISE
HYDRAULIC SEAL SYSTEM
液压密封系统

" BORISE SEAL, ONCE YOU HAVE,
THERE IS NO CHOICE "



HYDRAULIC SEAL SYSTEM

BORISE



公司简介
ENTERPRISE PROFILE

杭州锐威机械设备有限公司是一家专注于密封件研发、生产、销售和个性化定制的高科技生产企业。我们凭借多年的行业经验和专业知识，一直致力于为全球客户提供可靠和创新的密封件解决方案，以满足各种复杂的工程机械设备生产和售后需求。

我公司拥有自己的品牌BORISE，WECKERSEALS，目前，我们是中国破碎锤制造商的专业、守信、高效的密封件供应商。同时，BORISE品牌产品已畅销中东、东南亚、非洲、俄罗斯、美国等地区和国家。公司采用德国先进的研发技术和生产工艺，基于PPDI的材料特点，不仅独立开发了高回弹、耐磨性好的PPDI密封，还开发了不断、不碎、不裂特点的斯特封。

公司卓越的研发能力、先进的生产设备、现代化的管理体系、优秀的销售团队，能够满足全球各种客户的不同需求。

欢迎国内外新老客户光临并洽谈合作!

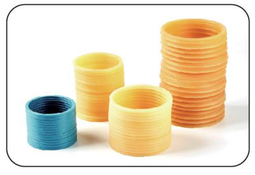
BORISE

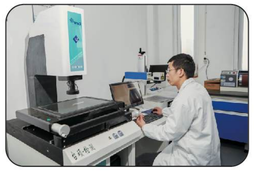
Hangzhou Ruiwei Machinery Equipment Co., Ltd. is an enterprise focusing on R&D, production and sales of high quality construction machinery seals. With many years of industry experience and expertise, we are committed to provide the reliable and innovative sealing solutions for our customers in worldwide to match the variety of complex engineering machinery equipment.

The company's own brands are BORISE, WECKERSEALS. At present, we are the professional seals supplier of most rock hammer manufacturers in China. Meanwhile, BORISE brand products have been sold to Europe, America, the Middle East, Southeast Asia, Africa, Russia and other countries and regions. The company using German advanced R&D technology and production processing, based on the material characteristics of PPDI, we are not only independently developed the PPDI seals with high resilience, good wear resistance features,but also we developed the step seal with high tear resistance and Non-cracked,Non-broken,Non-fragment features. The company's excellent R&D ability, advanced production equipment, modern management system, excellent sales team, thus we can meet all kinds of global customers' different sealing demands.

Welcome to visit BORISE factory to discuss cooperation!









PPDI

博瑞斯自主研发的特殊PPDI聚氨酯材料，具有优异的回弹性能，耐磨性能，抗疲劳性能，另外还具有内生热低，动态性能优异。能够很好的应用于普通聚氨酯材料无法胜任的高频及高低温(-40—150°C)工况，特别适用于破碎锤等高频高温的工作环境。

The special PPDI polyurethane developed by Borise,which have excellent resilience, wear resistance and anti-fatigue features. Furthermore,it possesses low interior heat generation and excellent dynamic performance.It's suitable to work on the height frequency and high-low temperature (-40°C—150°C) environment,which the normal polyurethane materials cannot compare.Especially,our special PPDI product is adapt to work in high-frequency and high-temperature environments just like rock hammer.

PUAR

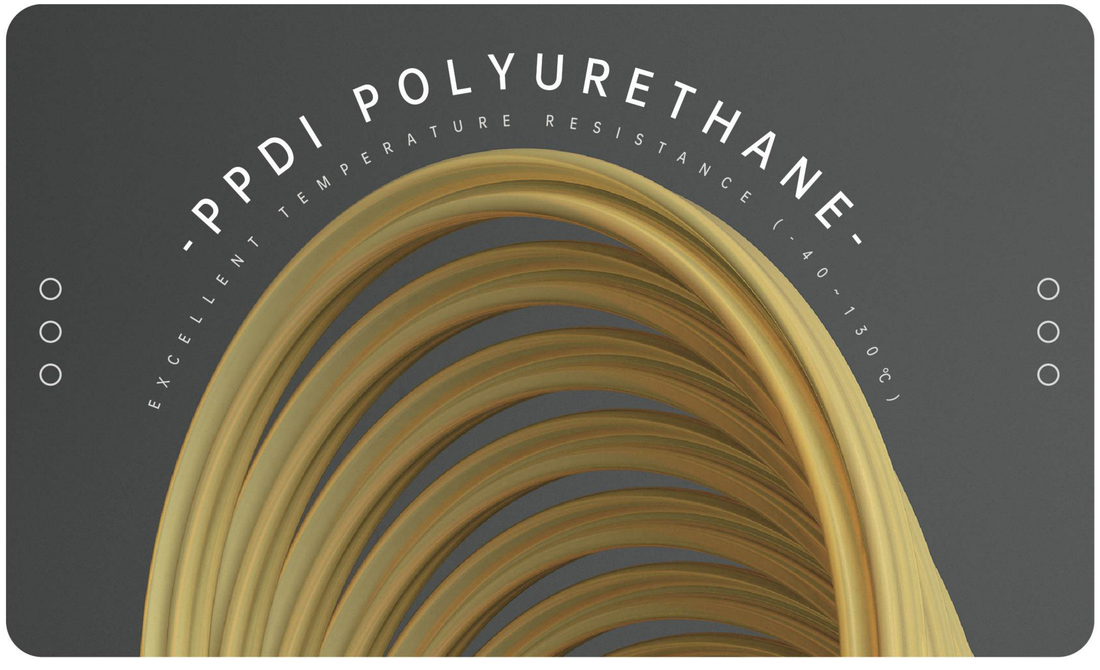
PUAR是博瑞斯自主研发的具有知识产权的新产品，作为代替传统PTFE+Cu粉的斯特封材料的新型高分子材料，该材料具有传统材料不具备的抗撕裂性能及超强的耐磨性能。PUAR材料生产的斯特封是传统斯特封的2倍使用寿命，具有更广泛的应用工况。

PUAR is a new product with intellectual property rights independently developed by Borise. It's a new polymer material as substitute of traditional step seal's material PTFE+CU powder.Our PUAR have the tear resistance and super wear-resistance rather than traditional material. The step seal made of PUAR material is twice service life than the traditional one, also has a wider range of application conditions.

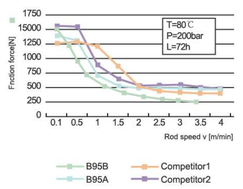
B6000型聚氨酯

BORISE在P6000(PARKER)基础上开发了增强型聚氨酯弹性体材料，相比普通聚氨酯弹性体材料，B6000具有更优异的回弹性，耐磨性及抗疫劳性能，适用于重型液压系统的密封元件。

BORISE has developed a reinforced polyurethane elastomer material based on the P6000 (PARKER).Comparing with ordinary polyurethane elastomer, B6000 material has higher resilience,wear resistance and anti-fatigue performance,which applicable to the seals element in heavy hydraulic systems.

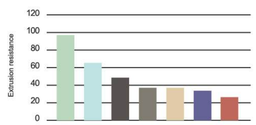


摩擦力
FRICTION FORCE



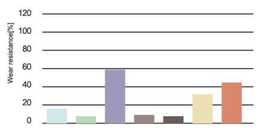
不同聚氨酯材料油缸活塞杆
用单唇密封件PUS的摩擦力

抗挤出性能
EXTRUSION RESISTANCE



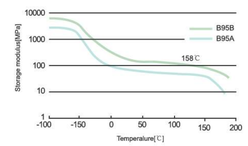
耐挤出能力测试：
在压力为45MPa，温度为130度持久性测

耐磨损性能
WEAR RESISTANCE

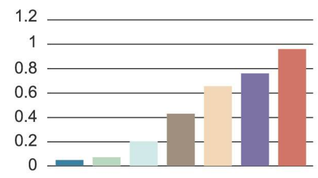


用不同材料试样
所作的耐磨损试验

动态弹性模量
DYNAMIC E-MODULUS



泄漏
DIVULGE



PUS型油缸活塞杆密封件的泄露
(活塞杆受压回缩行程)

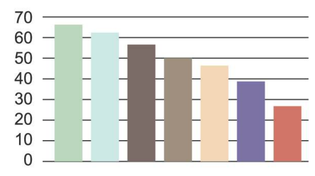
负载数据
压力：0/30 MPA
油温：130°C
速度：0.3m/s
全部总行程：180km

耐介质能力
MEDIUM RESISTANCE ABILITY

PUS type oil cylinder piston rod seals A leak
(piston rod Pressure to retract stroke)

Load the data:
MPa pressure：0/30
The oil temperature：130 C
Speed：0.3 m/s
All total trip：180 km

余应力
RELAXATION



上图显示PUS型油缸活
塞杆密封件的剩余预载

负载数据
压力：0/30 MPA
油温：130°C
速度：0.3m/s
全部总行程：180km

尺寸稳定性
DIMENSIONAL STABILITY

Shown above PUS type cylinder
The rest of the plug rod seals preloading

Load the data:
MPa pressure：0/30
The oil temperature：130 C
Speed：0.3 m/s
All total trip：180 km

B95B 物理性能 PHYSICAL PERFORMANCE

测试项目	Test Items	标准 Standard	单位 Unit Measure	测试结果 Test results
硬度	Hardness	DIN 53 505	Shore A	94±1
比重 (+/-0.02)	Ratio	DIN 53 479	g/cm	1.2
100%模量	100%Modulus	DIN 53 504	N/mm2(min.)	13.4
100%模量	100%Modulus	DIN 53 504	N/mm2(min.)	22.8
拉伸强度	Tensile Strength	DIN 53 504	N/mm2(min.)	58.9
拉断伸长率	Elongation at break	DIN 53 504	%(min.)	554.0
撕裂强度	Tear Strength	DIN 53 515	N/mm	94.0
压缩永久变形率70h/70°C	The permanent compression set value 70h/70°C	DIN ISO 815 7.5.1	% (max.)	30.0
回弹性能	Resilience performance	DIN 53 512	% (min.)	44.0
低温性能（TR10）	Low temperature performance (TR10)	ASTMD 1329	°C	-45.2
温度范围	Temperature range		°C	-45/+130
短期工作温度	Short term working temperature		°C	+140

由于密封元件是通过模塑技术，用弹性体材料制成，所以这里的测量技术不同于工程机械的测量技术。比如在工程机械中，通常只有测量圆形产品的内径和外径，这种测量方法适合于加工工艺。但是，不可以用普通的测量工具(卡尺和十分尺)来测量密封产品，因为密封产品具有弹性。

Because the seals element is made by molding technology with elastomer material, so the measurement technology is different from the measurement technology of construction machinery. For example, construction machinery usually only measuring the inner diameter and outer diameter of circular products, this measurement method is suitable for the processing process. However, we can not measure the seals product by normal tools (calipers and ten feet) because the sealing product is flexible.

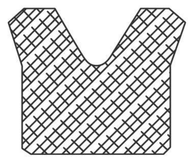
下面的图解中所展示的测量方法可以保证产品测量更为方便精准

The measurement method shown in the following diagram ensures that the product measurement is more convenient and accurate.

NO/NUMBER	MONDIFICATION		DATE	NAME	REMARKS	
	DATE	NAME	SIGNAURE	MATERIAL	STANDART	COLOUR
DRAWN	23.07.2014			94 PU ±1	DIMENSIONS WITHOUT TOLERANCES CLASS M2F	BLUE
CONTROL	23.07.2014					
APPROVAL	23.07.2014					
	PART NAME					
	PUS 180X200X12					

FIRST SAMPLE TEST REPORT

Customer Number			Date: 23.07.2014
Size:	180X200X42	Drawing No:	180X200X12
Hardness:	94±1	Material:	PU



Rank Of Meosurement	Value Measured	DRAWING VALUES	CHECK	NOTE
1	199.74	Ø 199.74±0.3	OK	
2	9.72	9.70 ±0.1	OK	
3	11.78	11.75 ±0.2	OK	
4	11.88	12.00±0.2 -0.3	OK	
5	3.03	2.95	OK	
6	7.12	7.20	OK	
7	1.20X47°	1.15X45°	OK	
8	R0.72	R0.75	OK	
9	R0.88	R0.85	OK	
10	R1.06	R1	OK	

NOTE:1)Dimension whose lolerances not indicated are accordina to ISO 3302-1 class M2-F
2)Result;released.

ISO 3302-I M2-F					
	0<d<4	4<d<6.3	6.3<d<16	16<d<25	25<d<40
Tolerances	±0.1	±0.15	±0.20	±0.25	+0.35
Nominal Dimension	40<d<63	63<d<100	100<d<160	160<d	
Tolerances	±0.40	±0.50	±0.70	±0.5%	

ACCEPTANCE			NOTE:	Apearance		REIECCTION
1	2	3				

CONTROL (1) CONTROL (2) CONTROL (3)

在这一组技术绘图中，直径大小值已经给出，相比于钢材而言，尺寸公差将会更大。由此可知，测量的偏差必须在公差之内。我们可以看到，密封产品的所有其它尺寸都能在截面图上得到反映。借助于轮廓投影仪或显微镜等测量设备的帮助，对着密封元件的产品样本截面图，测量可以轻松进行。

In the above set of technical drawings, the diameter size have been given, and the size tolerance will be larger than the steel. It follows that the deviation of the measurement must be within the tolerance. We can see that all other sizes of the seal product are reflected in the section diagram. With the help of measuring equipment such as contour projector or microscope,facing the product sample section of the sealing element, the measurement can be carried easily out.

液压密封元件 HYDRAULIC PACKING ELEMENT

- U型杆活塞密封 U-type rod piston seal
- V型组合杆密封 V-type combination rod seal
- 杆--活塞密封 Rod- -piston seal
- U型杆密封 U-type rod seal
- U型活塞密封 U-type piston seal
- V型组合活密封 V-type combination live seal
- 组合密封 Combination seal
- 杆密封 The rod seal
- 重载活塞密封 Heavy load piston seal
- 重载活塞封(Z-CUTTED) Heavy-Load Piston Seal (Z-CUTTED)
- 活塞密封 The piston seal
- 缓冲密封 Buffer seal
- 组合活塞密封 Combination piston seal
- U型杆塞封 U-type rod plug seal
- U型杆密封 U-type rod seal
- U型杆密封 U-type rod seal
- 组合活塞密封 Combination piston seal
- 重载U型杆塞封 Overloaded U-type rod plug seal
- 活塞密封 The piston seal
- 缓冲密封杯 Buffer seal cup

防尘圈 DUST SEAL

- 防尘圈 Dust seal
- 双唇防尘圈 Double lips dust seal
- 防尘圈 Dust seal
- 防尘圈 Dust seal
- 防尘圈 Dust seal
- 主密封 Main seal
- 双唇防尘圈 Double Lips dust seal
- 防尘圈 Dust seal
- 重载防尘圈 Heavy load dust seal
- 杆密封(轴用斯特封) Rod seal (step seal for shaft)

气动密封元件 PNEUMATIC SEALING ELEMENT

- 气动活塞密封 Pneumatic piston seal
- 气动杆密封 Pneumatic rod seal
- 气动活塞密封 Pneumatic piston seal
- 气动组合密封 Pneumatic combination seal
- 短行程气动活塞密封 Short-travel pneumatic piston seal
- 气动缓冲密封 Pneumatic buffer seal
- 气动活塞密封 Pneumatic piston seal
- 气动活塞密封 Pneumatic piston seal
- 气密封 Gas seal
- 气动杆密封 Pneumatic rod seal
- 气密封 Gas seal

PTEE密封元件 PTEE SEAL ELEMENT

- 活塞密封(孔用格莱圈) Piston seal (Gele Ring for hole)
- 旋转杆密封 Rotary rod seal
- 单作用密封(孔用斯特圈) Single action seal (Step ring for hole)
- 旋转活塞密封 Rotate the piston seal

静密封元件 STATIC SEAL ELEMENT

- 法兰密封 Flange seal
- 端盖活塞密封 End cover piston seal
- 端盖杆密封 End cover rod seal



DIAGRAM OF
BDS TYPE DUST SEAL



BDS型防尘封

BDS型防尘封唇口经过AXT特殊设计,可有效防止粉尘、污物进入液压系统,泄压槽设计可有效防止因主密封失效导致的挤出现象,防止设备损毁,SIV支承副唇口设计,提高油封的支撑性及抗污性能。

BDS Type Dust Seal

The lip of the BDS dust seal is specially designed by AXT, which can effectively prevent dust and dirt from entering the hydraulic system. The pressure relief groove is designed can effectively prevent the extrusion phenomenon caused by the failure of the main seal and prevent equipment damage. SIV supporting auxiliary lip design can improve the support and anti-pollution performance of the oil seal.



DIAGRAM OF
BDI TYPE DUST SEAL



BDI型防尘封

BDI型防尘封的副唇设计,具有静态封油效果,有效防止低压渗漏,适用于低压高速油缸、小型破碎锤、中型液压油缸等。

BDI Type Dust seal

The design of subsidiary lip of BDI type dust seal's feature is seal under the static condition and prevent low-pressure leakage effectively,which is suitable for low-pressure and high-speed oil cylinder,small size hydraulic breakers and medium-sized hydraulic cylinders.



DIAGRAM OF
BUS TYPE ROD SEAL



BUS型活塞杆密封

BUS型活塞杆密封适用于中压高速油缸，其特殊的抗挤出设计,能承受更高的压力,专用于重型液压油缸、液压破碎锤的机械密封用途。通过定位在其外径上,动态密封唇有效改善液压油缸的泄油特性,同时补偿活塞杆的绕曲现象。

BUS Type Piston Rod Seal

BUS type piston rod seal is suitable for medium pressure&high speed cylinder, its special extrusion resistance design, can withstand higher pressure, dedicated to heavy hydraulic cylinder, hydraulic breaker mechanical sealing uses. By positioning on the outer, the dynamic sealing lip effectively improves the oil discharge characteristics of the hydraulic cylinder, and compensates for the winding phenomenon of the piston rod.



GAS SEAL
DIAGRAM



气密封

BORISE星型气密封是一种具有双向密封的气密封,适合应用在高速运动的液压系统中,其具有高效的气体密封性能,耐高温。

Gas Seal

BORISE Star gas seal is a kind of bidirectional gas seal, suitable for the high-speed movement of the hydraulic system, it has high efficient gas sealing performance, high temperature resistance.



DIAGRAM OF
BSI TYPE BUFFER SEAL



缓冲封

BSI型活塞杆密封是一种不带支撑环的紧凑型密封,主要用于高速运动的工程机械液压系统中,起到缓冲稳压的作用。在极限状况下，BSI型缓冲密封可以承受瞬间60MPa的极限压力，以及3m/s的极限速度。保证液压压力的平稳输出。

Buffer Seal

BS I piston rod seal is a compact seal without support ring, which is mainly used in high speed engineering machinery hydraulic system.It's playing the role of buffer pressure stabilization. In extreme conditions, the BSI buffer seal can withstand an instantaneous limit pressure of 60MPa, as well as a limit speed of 3 m/s that ensure the smooth output of the hydraulic pressure.



DIAGRAM OF
WKS TYPE STEP SEAL



WKS型斯特封

WKS型斯特封作为一种组合密封原件,博瑞斯采用基于德国原材料作为基材,自主研发的新型斯特封配方代替传统的PTFE斯特封。在保证动态及静态密封效果的同时,有效抑制传统斯特封在串联结构的困油现象,同时具有更高的耐磨性,高强度结构有效降低了传统斯特封的碎裂现象。

WKS Type Step Seal

WKS type step seal as a combination seal, Borise uses the raw materials base on the German material as the base material, self-developed new step seal replaced the traditional PTFE seal. While ensuring the dynamic and static sealing effect,the traditional step seal in the series structure is effectively suppressed, and the structure has higher wear resistance. The high strength structure effectively reduces the fragmentation phenomenon of the traditional step seal.



DIAGRAM OF
BRC TYPE FACE SEAL



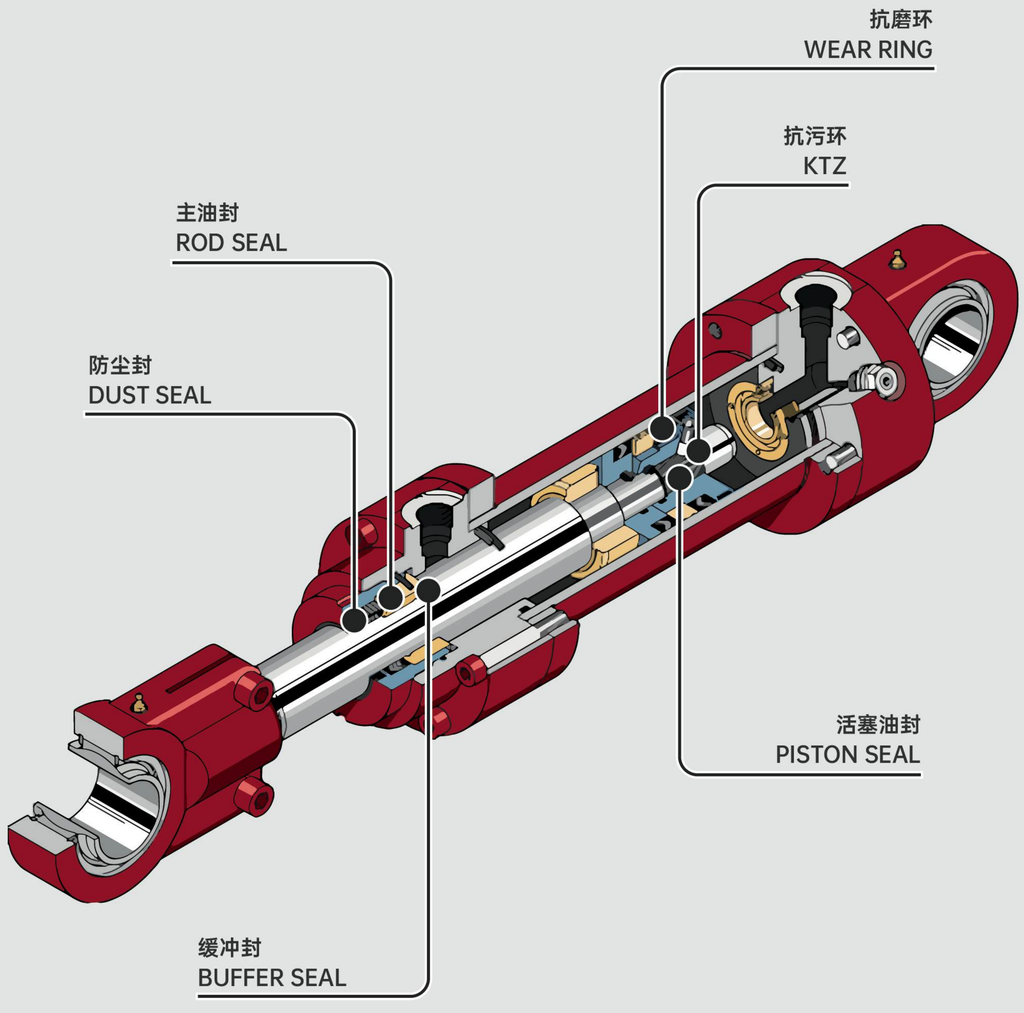
端面密封

BRC型端面密封采用PPDI材料，用来代替O型圈或含PTFE挡圈的组合结构,相对于O型圈,BRC型端面具有高回弹、高耐温、使用寿命长的特点。

BRC Type End Surface Seal

BRC end surface sealing is made of PPDI material to replace the combined structure of O-ring and PTFE. Compared with O-ring, BRC end surface has the characteristics of high resilience, high temperature resistance and long service life.

油缸分解图展示油封
CYLINDER BREAKDOWN DIAGRAM DISPLAY OIL SEAL



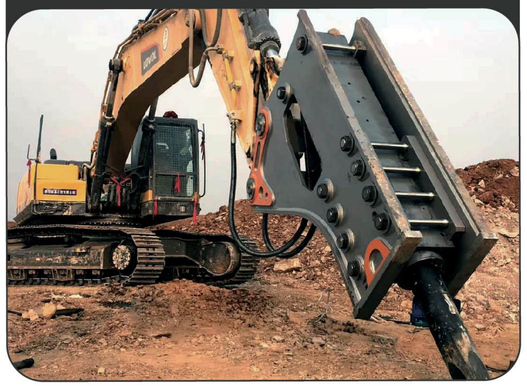


应用领域
APPLICATION AREAS

为了成为世界领先的高性能密封件供应商，企业将在技术研发、产品质量和市场拓展方面进行有针对性的投资，避免盲目决策和浪费资源，使企业在市场竞争中更有目的性和可操作性，能够更快地应对市场变化和客户需求的快速变化。

To become a world-leading supplier of high-performance sealing parts, we will make targeted investments in technology research and development, product quality, and market expansion, avoiding blind decision-making and waste of resources. This makes us more purposeful and actionable in market competition and able to respond to market changes and customer needs more quickly.

液压破碎器 HYDRAULIC BREAKER



挖掘机 EXCAVATOR



清洁车 GARBAGE VEHICLE



叉车 FORKLIFT



油田设备 OIL FIELD EQUIPMENT



煤矿机械 COAL MINE MACHINERY



推土机 BULLDOZER



农用机械 AGRICULTURAL MACHINERY



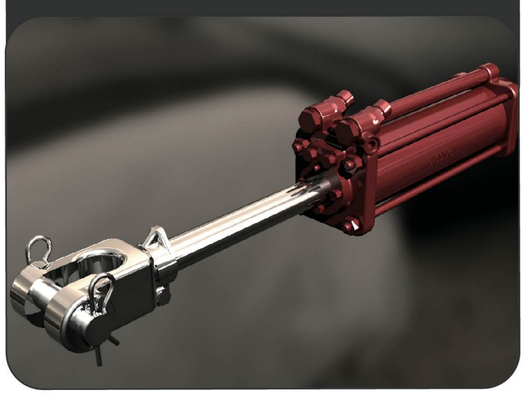
起重机 CRANE



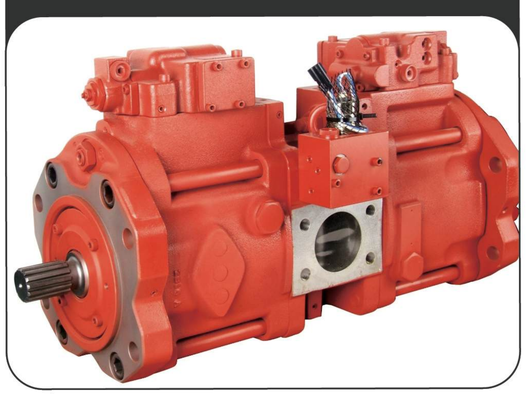
风机设备 WIND ENERGY EQUIPMENT



气缸油封 GAS CYLINDER SEALS

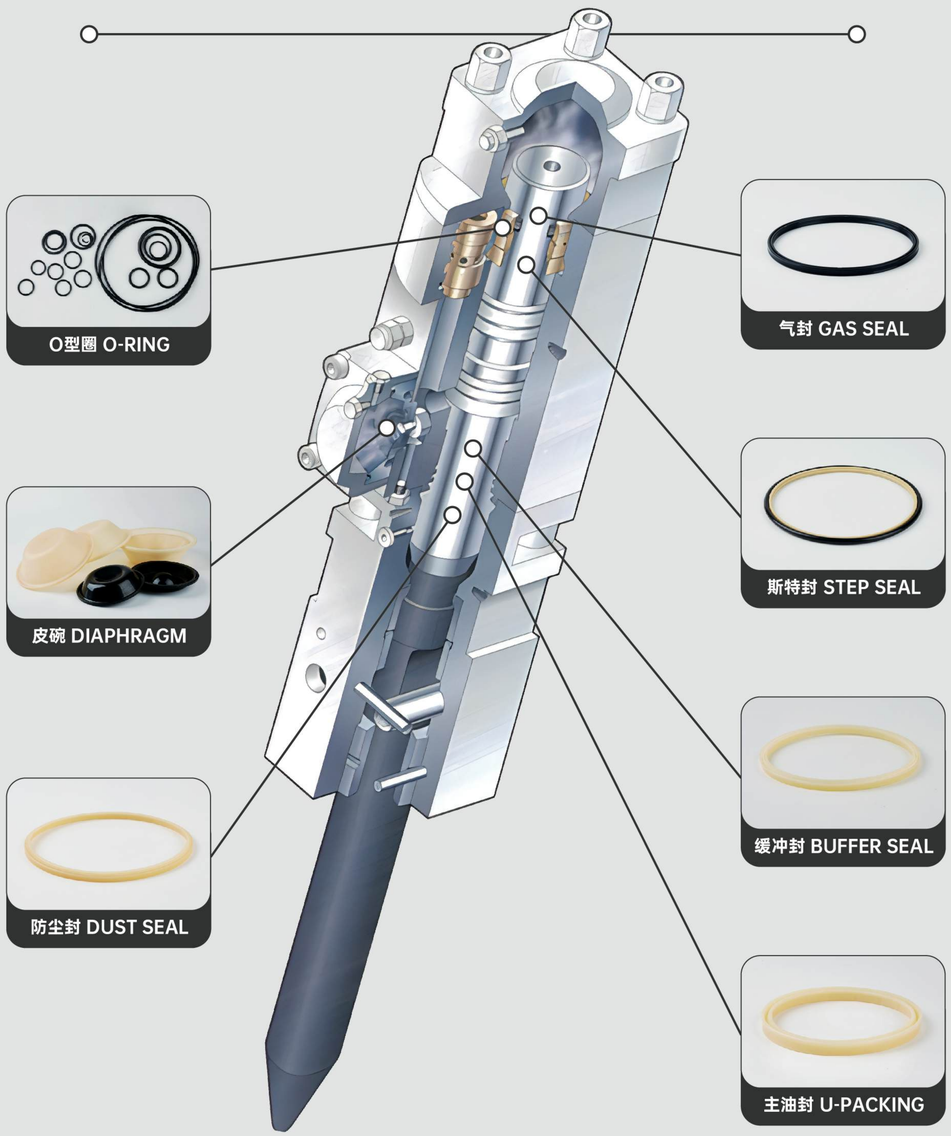


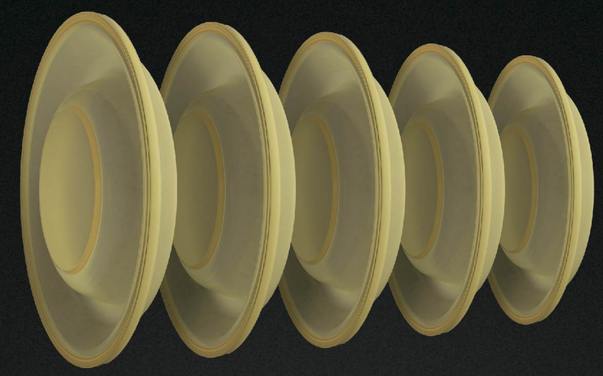
液压泵油封 PUMP SEALS



液压破碎锤分解图展示油封

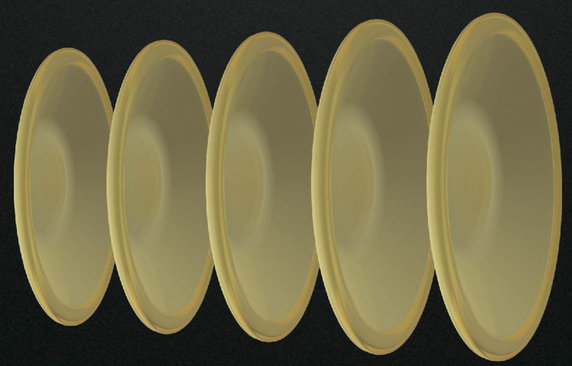
HYDRAULIC HAMMER ANATOMY





PPDI隔膜具有优异的抗撕裂性、抗疲劳性、抗冲击性、优异的伸长率等特点。其使用寿命是传统橡胶隔膜的2-3倍。主要应用于破碎机、井下钻机等领域。

The PPDI diaphragm has excellent tear resistance, fatigue resistance, impact resistance, excellent elongation and other characteristics. Its service life is 2-3 times that of traditional rubber diaphragm. It is mainly used in the fields of breakers and down-the-hole drilling rigs.



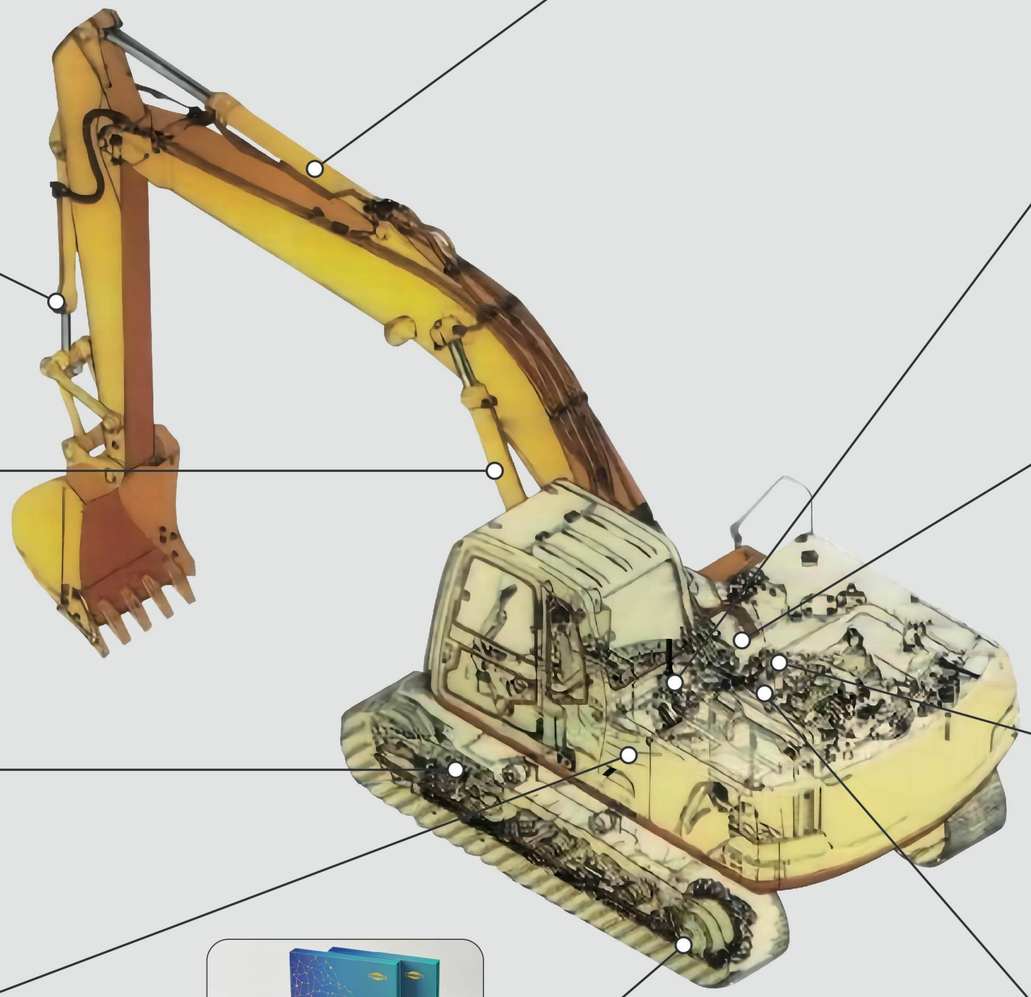
FURUKAWA	型号Model	HB 1G	HB 2G	HB 3G	HB 5G	HB 8G	HB 10G	HB 15G	HB 20G	HB 30G	HB 40G	
	钎杆直径MM Chisel Dia.	36	45	60	75	90	105	120	135	150	160	
	型号Model	F3	F4	F5	F6	F9	F12	F19	F22	F27	F35	F45
	钎杆直径MM Chisel Dia.	52	60	68	75	90	105	120	135	140	150	165
	型号Model	FXJ 125	FXJ 175	FXJ 275	FXJ 375	FXJ 475	FX35	FX45	FX55			
	钎杆直径MM Chisel Dia.	110	120	140	155	170	52	60	68			
RAMMER	型号Model	E63	E64	E66	E68	G80	G88	G90	G99	G100	G110	G120
	钎杆直径MM Chisel Dia.	115	106	115	130	140	142	159	165	169	175	195
	型号Model	S18	S21	S22	S23	S24	S25	S26	S27	S29	S52	S54
	钎杆直径MM Chisel Dia.	40	45	50	63	70	70	90	84	95	110	115
	型号Model	S55	S56	S82	S83	S84	S86					
	钎杆直径MM Chisel Dia.	115	130	140	140	160	169					
	型号Model	BR111	BR222	BR255	BR321	BR333	BR422	BR455	BR555	BR623	BR777	BR825
	钎杆直径MM Chisel Dia.	36	42	40	45	50	50	56	72	63	80	70
	型号Model	BR927	BR999	BR1129	BR1533	BR2063	BR2064	BR2155	BR2214	BR2265	BR2266	BR2568
	钎杆直径MM Chisel Dia.	84	90	95	105	115	106	118	125	125	115	130
	型号Model	BR2577	BR2518	BR3288	BR3890	BR4099	BR4510	BR4511	BR5011	BR7013		
	钎杆直径MM Chisel Dia.	135	140	142	159	165	169	175	190	203		
MONTABERT	型号Model	BRH40	BRH75	BRH125	BRH250	BRH501	BRH620	BRH625	BRH750			
	钎杆直径MM Chisel Dia.	46	60	80	95	114	115	118	120			
	型号Model	SC16	SC22	SC28	SC36	SC42	SC50	V1600	V1800	V2500	V3500	V4500
	钎杆直径MM Chisel Dia.	54	62	69	77	85	95	140	140	160	175	190
	型号Model	V32	V43	V45	V53	V55	V65	XL1000	XL1300	XL1700	XL1900	XL2600
	钎杆直径MM Chisel Dia.	122	150	150	170	170	202	17	124	137	142	156
ATLAS COPCO	型号Model	SB52	SB102	SB152	SB202	SB302	SB452	SB552	SB702			
	钎杆直径MM Chisel Dia.	40	45	50	65	80	95	100	105			
	型号Model	HB2000	HB2200	HB2500	HB3100	HB3600	HB4200	HB4700	HB5800	HB7000		
	钎杆直径MM Chisel Dia.	145	150	155	165	175	180	189	200	210		
	型号Model	MB500	MB700	MB750	MB1000	MB1200	MB1500	MB1600	MB1700			
	钎杆直径MM Chisel Dia.	90	100	100	110	120	135	135	140			
FINE	型号Model	FINE 1	FINE 2	FINE 3	FINE 4	FINE 5	FINE 6	FINE 7	FINE 10	FINE 12	FINE 16	FINE 20
	钎杆直径MM Chisel Dia.	36	40	45	53	68	72	85	100	110	120	135
	型号Model	FINE 22	FINE 23	FINE 35	FINE 36	FINE 37	FINE 45	FINE 46	FINE 50	FINE 65	FINE 80	
	钎杆直径MM Chisel Dia.	135	140	150	140	155	160	165	175	180	200	
KRUPP	型号Model	HM45V	HM50V	HM60V	HM75V	HM85V	HM140V	HM190V	HM200	HM220	HM300	HM350
	钎杆直径MM Chisel Dia.	42	45	48	55	62	65	75	80	80	80	90
	型号Model	HM550	HM580	HM600	HM700	HM720	HM780	HM960	HM1000	HM1500	HM2000MV	HM2100
	钎杆直径MM Chisel Dia.	100	100	100	115	115	120	135	140	150	160	165
	型号Model	HM2500	HM3000	HM4000								
	钎杆直径MM Chisel Dia.	180	200	210								

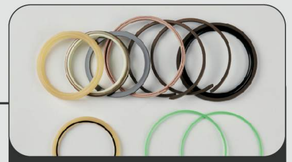
MSB	型号Model	MS200	MS220H	MS250	MS300	MS400	MS460H	MS500H	MS550H	MS600	MS700	MS800
	钎杆直径MM Chisel Dia.	63	70	75	85	95	100	110	120	130	140	160
	型号Model	MS900	MS30AT	MS35AT	MS45AT	MS75AT						
	钎杆直径MM Chisel Dia.	170			165	175						
	型号Model	SAGA2011	SAGA3011	SAGA4011	SAGA50	SAGA80/81	SAGA100	SAGA120	SAGA180	SAGA220II/220	SAGA300	SAGA350
	钎杆直径MM Chisel Dia.	45	53	59	68	74	85	98	120	135	150	153
INDECO	型号Model	HP150	HP 200	HP 350	HP 500	HP600	HP700	HP900	HP1200	HP1500	HP1800	HP2000
	钎杆直径MM Chisel Dia.	45	48	56	65	73	80	89	90	109	114	119
	型号Model	HB2500	HP 2750	HP 3000	HBP 3500	HP4000	HP5000	HP7000	HP9000	HB8		
	钎杆直径MM Chisel Dia.	130	134	140	144	150	159	180	195	80		
MTB	型号Model	MTB25	MTB36	MTB45	MTB120	MTB150	MTB170	MTB210	MTB255	MTB285	MTB365	MTB505
	钎杆直径MM Chisel Dia.	70	75	85	115	125	135	145	150	160	175	190
DAEMO	型号Model	DMB06	DMB10	DMB20	DMB30	DMB40	DMB50	DMB60	DMB70	DMB90	DMB140	DMB145
	钎杆直径MM Chisel Dia.	40	40	45	53	62	70	75	78	85	105	105
	型号Model	DMB180	DMB210	DMB215	DMB230	DMB235	DMB250	DMB300	DMB360	DMB450	DMB650	DMB850
	钎杆直径MM Chisel Dia.	120	135	135	135	140	145	150	155	165	180	200
SOOSAN	型号Model	SB10	SB20	SB30	SB35	SB40	SB43	SB45	SB50	SB60	SB70/SB71	SB81
	钎杆直径MM Chisel Dia.	40	45	53	60	68	75	85	100	125	135	140
	型号Model	SB100	SB121	SB130	SB140	SB151	SBU+85	SBU+125	SBU+145	SBU+165		
	钎杆直径MM Chisel Dia.	150	155	165	165	175	135	155	165	175		
EVERDIGM	型号Model	EHB008	EHB01	EHB03	EHB04	EHB05	EHB06	EHB10	EHB13	EHB17	EHB20	EHB25
	钎杆直径MM Chisel Dia.	42	45	50	58	68	80	93	105	116	124	134
	型号Model	EHB30	EHB40	EHB50								
	钎杆直径MM Chisel Dia.	149	164	179								
NPK	型号Model	E106	E-200	E-201	E-202	E-203	E-204	E-205	E-206	E-207	E-208A	GH7
	钎杆直径MM Chisel Dia.	41	42	47	57	66	76	86	96	106	116	116
	型号Model	E-210A	E-212	E-213	E-215	E-216	E-218	E-220	E-224	E-225	E-235	E-240A
	钎杆直径MM Chisel Dia.	126	126	136	136	146	146	156	156	165	190	184
	型号Model	GH09	GH10	GH12	GH15	GH18						
	钎杆直径MM Chisel Dia.	126	136	146	156	165						
	型号Model	H-1XA	H-2XA	H-3XA	H-4X	H-6XA	H-7XA	H-8XA	H-10XA	H-12XE	H-16XE	H-20XE
	钎杆直径MM Chisel Dia.	57	65	75	90	96	105	116	126	136	145	156
KOMAC	型号Model	KB100	KB150	KB200	KB250	KB300	KB350	KB400	KB1000	KB1500	KB2000	KB3600
	钎杆直径MM Chisel Dia.	40	46	53	58	68	75	85	100	120	135	150
	型号Model	KB4200	KB5000	KB5500	TOR13	TOR18	TOR22/23	TOR26	TOR36	TOR42	TOR55	TOR70
	钎杆直径MM Chisel Dia.	155	160	175	102	108	127	140	145	155	175	195
TOKU	型号Model	TNB08M	TNB1M	TNB2M	TNB3M	TNB4M	TNB5M	TNB6E	TNB7J	TNB7E	TNB14E	TNB22E
	钎杆直径MM Chisel Dia.	40	45	50	58	64	75	95	105	115	135	146
	型号Model	TNB-31E/30E	TNB100	TNB150/151	TNB190	TNB230	TNB310	TNB400				
	钎杆直径MM Chisel Dia.	160	115	135	139	146	160	178				
GENERAL BREAKER	型号Model	GB2T	GB3T	GB4T	GB5T	GB8AT	GB8T	G11T	GB14T	GB220E	GB300E	GB450E
	钎杆直径MM Chisel Dia.	70	75	85	100	135	140	155	165	135	150	150
	型号Model	GB530E	GB580E	GB630E								
	钎杆直径MM Chisel Dia.	160	175	180								

TOYO	型号Model	THBB31	THBB51	THBB71	THBB101	THBB201	THBB301	THBB401	THBB801	THBB1101	THBB1401	THBB1600
	钎杆直径MM Chisel Dia.	30	42	45	57	65	70	80	100	120	130	137
	型号Model	THBB2000	THBB3000									
	钎杆直径MM Chisel Dia.	150	160									
SOCOMEC	型号Model	DMS50	DMS95	DMS160	DMS210	DMS220	DMS270	DMS330	DMS410	DMS430	DMS740	
	钎杆直径MM Chisel Dia.	45	45	55	62	65	68	72	80	85	95	
	型号Model	DMO300	DMO450	DMO500	DMO550	DMO750	DMO900V	DMO1450	DMO1950	DMO2050	DMO3000	DMO4000
	钎杆直径MM Chisel Dia.	73	85	95	95	115	117	129	140	155	163	178
HANWOO	型号Model	RHB301V	RHB302	RHB303V	RHB303	RHB305V	RHB306	RHB308	RHB309	RHB313V	RHB320	RHB325
	钎杆直径MM Chisel Dia.	45	50	50	55	68	80	85	85	105	125	135
	型号Model	RHB328	RHB330	RHB340	RHB350							
	钎杆直径MM Chisel Dia.	150	150	165	180							
D&A	型号Model	D&A6V	D&A7V	D&A8V	D&A17V	D&A40V	D&A60V	D&A70DX	D&80DX	D&A100DX	D&A130DX	D&A150DX
	钎杆直径MM Chisel Dia.	40	40	45	57	70	75	80	90	95	105	115
	型号Model	180DX	200DX	220DX	250DX	300DX	360DX	450DX	550DX	650DX	700DX	750DX
	钎杆直径MM Chisel Dia.	125	135	135	145	150	155	165	175	180	200	205
INAN MAKINA	型号Model	MTB25	MTB35	MTB36	MTB45	MTB65	MTB85	MTB95	MTB120	MTB150	MTB155	MTB170
	钎杆直径MM Chisel Dia.	70	75	75	85	95	110	110	110	120	125	130
	型号Model	MTB175	MTB210	MTB215	MTB250	MTB255	MTB270	MTB275	MTB285	MTB360	MTB365	MTB505
	钎杆直径MM Chisel Dia.	135	140	145	150	150	160	160	160	170	175	190
DAEKKO	型号Model	DKO68	DKO75	DKO85	DKO100	DKO120	DKO135	DKO140	DKO150	DKO155	DKO165	DKO165L
	钎杆直径MM Chisel Dia.	68	75	85	100	120	135	140	150	155	165	165
	型号Model	DKO175	DKO185	DKO190A	DKO190AK	DKO195A	DKO200A	DKO205A	DKO210A			
	钎杆直径MM Chisel Dia.	175	185	190	190	195	200	205	210			
BEILITE	型号Model	BLTB 40	BLTB 45	BLTB 53	BLTB 70	BLTB 75	BLTB 85	BLTB 100	BLTB 125	BLTB 135	BLTB 140	BLTB 150
	钎杆直径MM Chisel Dia.	40	45	53	70	75	85	100	125	135	140	150
	型号Model	BLTB 155	BLTB 165	BLTB 175	BLTB 185	BLTB 190	BLTB 195	BLTB 200	BLTB 205	BLTB 210	BLTB 215	
	钎杆直径MM Chisel Dia.	155	165	175	185	190	195	200	205	210	215	
EDDIE	型号Model	EDT 100	EDT 200	EDT 300	EDT 400	EDT 430	EDT 435	EDT 450	EDT 800	EDT 1600	EDT 2000	EDT 2200
	钎杆直径MM Chisel Dia.	40	45	53	68	75	80	85	100	125	135	140
	型号Model	EDT 3000	EDT 3200	EDT 3500	EDT 3500F	EDT 4500P	EDT 4500F	EDT 6000	EDT 6000F	EDT 8000	EDT 8000F	EDT 9000N
	钎杆直径MM Chisel Dia.	150	155	165	165	175	175	185	185	195	195	200
CATERPILLAR	型号Model	H35DS	H45DS	H55DS	H65DS	H35ES	H45ES	H55ES	H65ES	H75ES	H95ES	H110ES
	钎杆直径MM Chisel Dia.	40	48	56	65	40	50	58	68	78	88	100
	型号Model	H115ES	H120ES	H130ES	H140ES	H160ES	H180ES					
	钎杆直径MM Chisel Dia.	110	120	130	140	160	180					
	型号Model	H45	H50	H63	H70	H90	H100	H115C	H120S	H130C	H140AS	H160AS
	钎杆直径MM Chisel Dia.	40	45	50	70	90	100	115	120	130	140	160
	型号Model	H170	H115S	H130S	H140S	H160DS	H180DS	H195				
	钎杆直径MM Chisel Dia.	169	106	130	140	159	169	195				

FURUKAWA	MODEL	F1	F2	F3	F4	F5	F6	F9	F12	F15	F19	F22	F27	F35	F45	F70
	SIZE	Ø82X19	Ø100X17	Ø109X16	Ø120X24	Ø130X22	Ø109X16	Ø130X22	Ø140X40	Ø150X40	Ø150X40	Ø170X35	Ø170X35	Ø190X40	Ø209X52	Ø237X41
	MODEL	HB-1G	HB-2G	HB-3G	HB-5G	HB-8G	HB-10G	HB-15G	HB-18G	HB-20G	HB-30G	HB-40G	HB-50G	HB-200	HB-400	HB-700
	SIZE	Ø65X10	Ø82X19	Ø100X17	Ø100X17	Ø120X24	Ø140X40	Ø150X40	Ø150X40	Ø170X35	Ø190X40	Ø209X52	Ø237X41	Ø135X26	Ø165X20	Ø165X20
MONTABERT	MODEL	BRP40	BRPXHIGH	BRPXLOW	BRP130	BRP140	BRP145	BRP150H	BRP150L	BRH501	BRH125	BRH250	BRH570	BRH625		
	SIZE	Ø115X20.5	Ø96.5X21.5	Ø180X36	Ø115X20.5	Ø136X23	Ø178X50	Ø136X23	Ø178X50	Ø228X44	Ø180X36	Ø228X44	Ø228X44	Ø228X44		
	BRV32	BRV42	BRV43	BRV45	BRV53	BRV55										
	Ø228X44	Ø260X50	Ø260X50	Ø260X50	Ø290X57	Ø290X57										
MSB	MODEL	SAGA120	SAGA180	SAGA200	SAGA300	SAGA350	SAGA500	MS230M	MS200	MS250	MS300	MS400	MS450	MS500	MS550	MS600
	SIZE	Ø150X40	Ø150X40	Ø170X35	Ø209X52	Ø209X52	Ø213.5X56.5	Ø90X21	Ø134.8X31	Ø150X40	Ø150X40	Ø170X40	Ø192X59.5	Ø226X61	Ø240X63	
	MODEL	MS700	MS800	MS900	MS1000	MS30AT	MSB35AT	MSB45AT	MSB55AT	MS75AT						
	SIZE	Ø265X83	Ø265X83	Ø280X82	Ø298X87	Ø240X63	Ø265X83	Ø280X82	Ø298X87	Ø330X98						
SOOSAN	MODEL	ST200	ST300	SB50	SB60	SB70	SB81	SB100	SB121	SB130	SB140	SB151	SBU+85	SBU+120	SBU+140	SBU+150
	SIZE	Ø170X35	Ø190X40	Ø143.5X29	Ø143.5X29	Ø143.5X29	Ø170X35	Ø170X35	Ø192X41	Ø192X41	Ø19241	Ø204X44	Ø192X41	Ø204X44	Ø204X44	Ø234X55
	MODEL	SBU+160	SP-3(H)	SP-3(L)	D-6	D-9	TD-45P(H)	TD-45P(L)								
	SIZE	Ø234X55	Ø114X27	Ø77X31	Ø116X26	Ø116X26	Ø90X18	Ø90X12								
ATLAS	MODEL	SB102	SB202	SB302	SB452	SB450	SB552	SB702								
	SIZE	3315238200	3315289000	3315235000	3315416300	3315416300	3315416300	3315416300								
	MODEL	MB750	MB1000	MB1200	MB1500	MB1600	MB1700	MB2000	MB3000							
	SIZE	Ø97X22	Ø168X30	Ø168X30	Ø168X30	Ø172X26	Ø172X26	Ø172X26	Ø172X26							
	MODEL	HB2000	HB2200	HB2200	HB2500	HB3000	HB3100	HB3600	HB4100	HB4700						
	SIZE	Ø172X26	Ø172X26	Ø172X26	Ø172X26	Ø172X26	Ø172X26	Ø172X26	Ø172X26	Ø172X26						
KRUPP	MODEL	HM60	HM110	HM300	HM-301	HM-305	HM-550	HM-560	HM-580	HM-600	HM0601	HM-720	HM-800	HM-1000	HM-1500	
	SIZE	Ø113X18	Ø113X18	Ø113X18	Ø113X18	Ø113X18	Ø113X18	Ø113X18	Ø113X18	Ø142X65	Ø142X65	Ø142X65	Ø172X26	Ø172X26	Ø172X26	
	MODEL	HM-700	HM-701	HM-710	HM-711	HM-900	HM-901	HM-950	HM-960	HM-965	HM-1300	HM-2000	HM-2500	HM-3000		
	SIZE	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50	Ø185X50		
RAMMER	MODEL	S 21(H)	S 22	S -23HIGH	S -23LOW	S -25HIGH	S -25(L)	S -26(H)	S -26(L)	S 29(L)	S 52	S 54	S 55	S 56	S 82	S 83
	SIZE	Ø72X15	Ø87.5X16.2	Ø90X21	Ø140X11	Ø111X23	Ø196X53	Ø95X20	Ø193X30	Ø229.5X34	Ø169.8X41	Ø226X61	Ø240X63	Ø240X63	Ø265X83	Ø265X83
	MODEL	S 84	S 86	E 64	E 66	E 68	G 80	G 90	G 100	G 130	G 200					
	SIZE	Ø265X83	Ø280X82	Ø226X61	Ø240X63	Ø240X63	Ø280X82	Ø280X82	Ø280X82	Ø350.5X60	Ø169.8X41					
DAEMO	MODEL	DMB 02	DMB 04	DMB 06	DMB 210	DMB 230	DMB 250	DMB 300	DMB 360	DMB 450	DMB 600	DMB 800				
	SIZE	Ø135X26	Ø165X20	Ø165X20	Ø170X35	Ø170X35	Ø170X35	Ø190X40	Ø190X40	Ø190X40	Ø237X41	Ø237X41				
INDECO	MODEL	HB8	MES301	MES553	MES621	MES2000	MES2500	MES3000	MES3500	MES4000	MES5000	HP600	HP700	HP2000	HP2500	HP3000
	SIZE	Ø180X36	Ø111X23	Ø148X30	Ø180X36	Ø228X44	Ø228X44	Ø268X61	Ø268X61	Ø268X61	Ø268X61	Ø148X30	Ø180X36	Ø228X44	Ø228X44	Ø268X61

挖掘机油封分布
EXCAVATOR OIL SEAL DISTRIBUTION





斗杆油封密封件
ARM CYL SEAL KIT



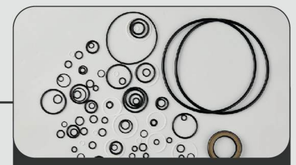
铲斗油封密封件
BUCKET CYL SEAL KIT



中心分油盘油封
CENTER JOINT SEAL KIT



动臂油缸密封件
BOOM CYL SEAL KIT



回转油封
SWING MOTOR SEAL KIT



涨紧油缸油封
ADJ SEAL KIT



分配阀油封
CONTROL VALVE SEAL KIT



操纵杆油封
PILOP VALE SEAL KIT



行走马达油封
TRAVEL MOTOR SEAL KIT



液压泵油封
HYDRAULIC PUMP SEAL KIT

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XCMG | 徐工

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LIUGONG | 柳工