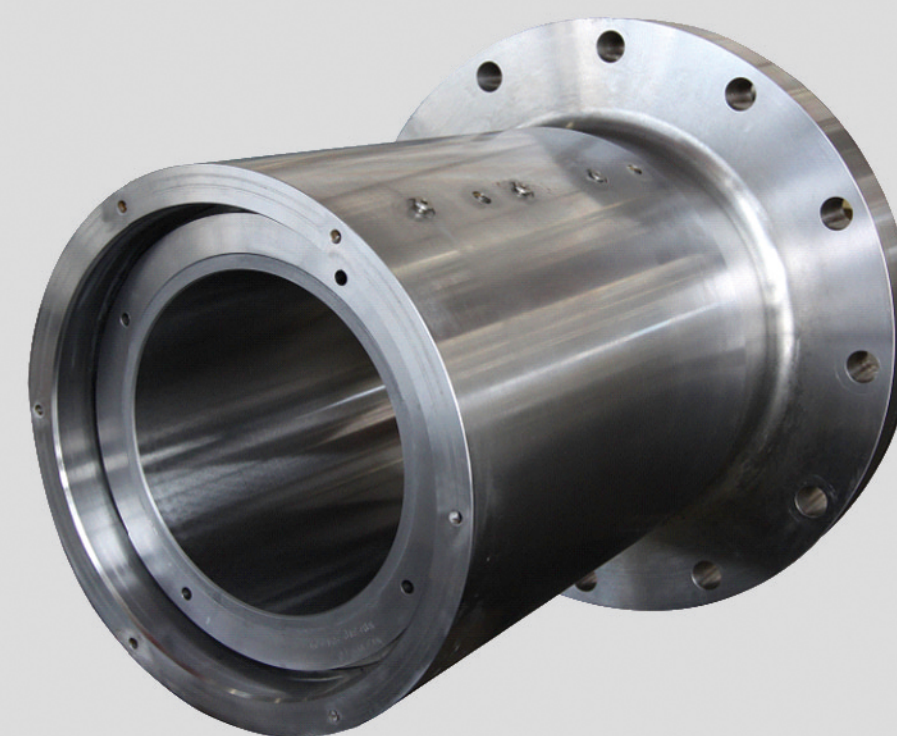




南京高精船用设备有限公司
Nanjing High Accurate Marine Equipment Co.,Ltd

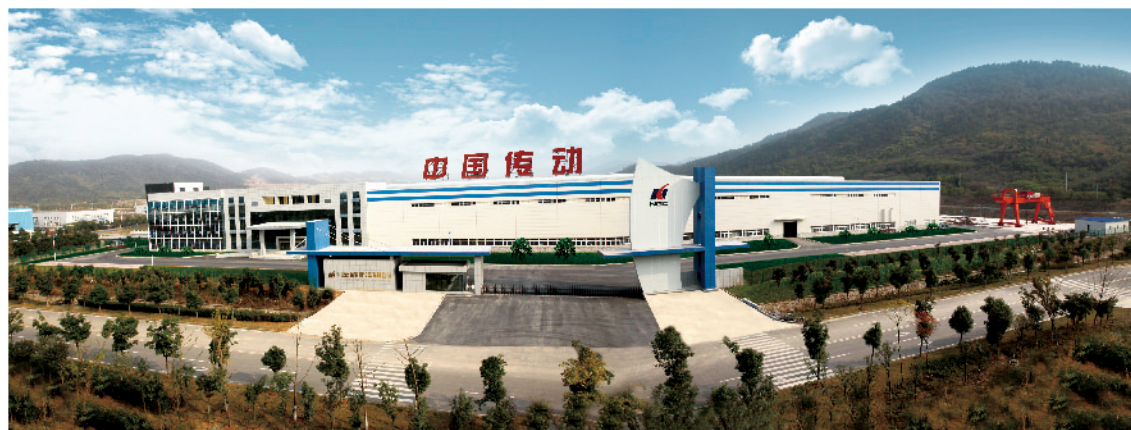


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地址: 中国南京江宁科学园宝鼎路 邮编: 211103
Address: Baoding Road, Science Garden Jiangning, Nanjing 211103, China
Tel: +86-25-52706932 Fax: +86-25-52706949
E-mail: mail@ngc-marine.com
www.ngc-marine.com www.chste.com

2012

NHF/NHC 液压联轴器
NHF/NHC Hydraulic Coupling



南京高精船用设备有限公司是中国高速传动设备集团（简称中国传动）全资子公司，可以成套提供原动机以后的各种传动和推进设备，包括可调桨、定距桨、舵桨、侧推、各种船用主/辅齿轮箱以及各种轴舵系部件和甲板机械等。

船用公司位于风景秀丽、交通便利的南京江宁科学园，现已建成占地256亩的船用产品产业园。现有员工400余人，工程技术人员120人，高级工程师23人、高级技师31人。

船用公司作为江苏省高新技术企业，通过多年技术引进和创新，已拥有具有自主知识产权的船用产品系列，并配有世界一流的生产设备，已形成年产400套推进器和齿轮箱的设计和生产能力。可根据不同船型和要求，进行周到的个性化设计，从而实现产品效率高、能耗低的环保要求。所生产的船用产品已经大量出口海外市场，产品质量达到国际标准，赢得客户和合作伙伴的高度认可。

船用公司建有完善的质量体系，先后通过了ISO9001、ISO14001、ISO18001和国军标体系认证。船用产品严格按照国际标准和船级社的要求进行设计和生产，已通过CCS、BV、GL、ABS、LR、RINA、DNV和RMRS等船级社的认证和检验。

公司通过产品质量和技术服务来创造品牌，把建立国际一流的大型船用设备配套企业作为目标，致力于为客户提供各种船舶传动和推进系统的最佳解决方案。现在公司建立了全球的销售和售后服务网络，正不断拓展国内外的船用配套产品市场，并赢得全球客户的赞誉。

Nanjing High Accurate Marine Equipment Co., Ltd. (NGC Marine for short), a wholly subsidiary of China Transmission, is specialized to manufacture marine propulsion and transmission system package, including controllable pitch propeller, fixed pitch propeller, tunnel thruster, azimuth thruster, main/auxiliary marine gearbox, hydraulic coupling, shafting rudder system components and deck machineries, etc.

The company is located at Science Garden, Jiangning District, Nanjing city, a scenic place with convenient transportation. Till today, a marine equipment garden of 173, 400 m² has been formed. The company occupies over 400 employees, and among them 120 are engineers, 23 are senior engineers, and 31 are senior technicians.

As a hi-tech enterprise in Jiangsu Province, NGC Marine has mastered the core technology of marine propulsion system to form our own product line based on the technology import and innovation. Now, we are able to design and produce 400 sets of CPP and marine gearbox per year and we can make the special design based on the ship hull and customer requirement, so as to improve the efficiency and reduce the energy consumption. Our products, machined to International Standard, have been exported to several foreign countries and have been highly recognized by the clients and partners.

NGC Marine has established a complete quality system, and has been certificated by ISO9001, ISO1400, ISO18001 and Military Standard System.

All of our marine products are designed and manufactured strictly adhered to international standards and requirements of Classification Societies. The company has been approved by CCS, BV, GL, ABS, LR, RINA, DNV and RMRS, etc.

To create our brand through quality and technical service, NGC Marine is aiming to build an international top enterprise in supplying large marine equipment. For years, NGC Marine applies itself to provide the optimal propulsion and transmission solution to clients. Our company has set up its global sales and service net, and has gained the good comments from the clients all over the world.

简介 Introduction

NGC液压联轴器广泛用于船舶轴系之间联接，它采用液压的方式进行装拆，不需要热膨胀。安装时，两个配合面为锥面的厚外套和薄内套装配在一起，高压油被注入到此配合锥面，使配合面间形成油膜，再向活塞腔里注入低压油，推进外套在内套上移动，移动合适距离后，释放油压，外套收缩紧压在内套上，内套和轴之间建立起强大的压力；工作时，该压力将产生摩擦力，从而使液压联轴器具有强大的扭矩传递能力。

NGC hydraulic couplings are widely used for the shaft line connection on board. They are hydraulically assembled and disassembled, no heat expansion is needed. During the assembly, the thick outer liner of two tapered contact surfaces is mounted together with the thin inner liner. Pump the high pressure oil into this contacting surface to form a oil film in between, and pump the low pressure oil into the piston chamber to drive the outer liner moving on the inner liner to a certain distance, and then release the pressure; the outer liner will be shrank on the inner liner to build up a strong stress between the inner liner and the shaft; during working, this pressure produces friction force to transmit the torque.

类型 Type

NGC液压联轴器可以分为圆筒式液压联轴器（NHC）和法兰式液压联轴器（NHF）。圆筒式液压联轴器联接两个均不带法兰的轴；法兰式液压联轴器联接一个不带法兰和一个带法兰的轴。

NGC hydraulic couplings are split into two types: NHC series of drum type hydraulic coupling and NHF series of flange type hydraulic coupling. The drum type connects two shafts without flange; and the flange type hydraulic coupling connects a flange free shaft with a shaft with flange.

★性能特点

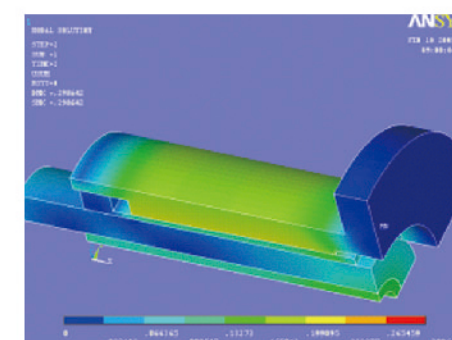
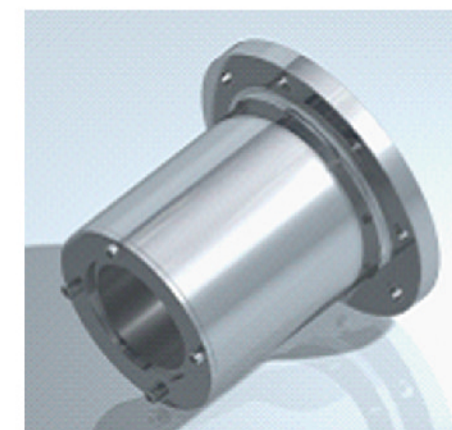
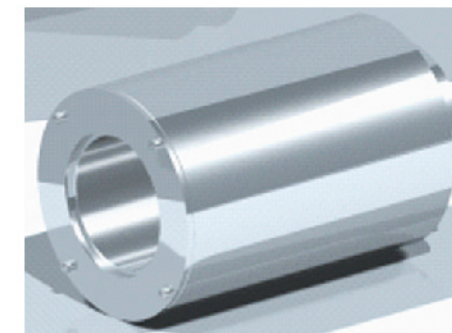
★Performance Characteristics :

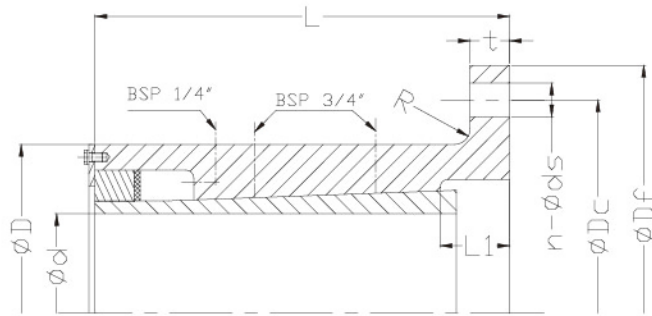
- 装拆简单方便；
- 轴上不需要键槽和推力环；
- 整个接触面受力较为均匀，应力集中不明显；
- 轴系振动载荷变化时对轴不会造成磨损；
- 联轴器在轴上的位置容易保证，连接精度高；
- 可以重复使用，可换性高；
- Easy to assembly/disassembly;
- No key groove and thrust ring on shaft;
- The contact surface is under equal stress, no significant stress concentration.
- No wear to the shaft when the shaft vibration load changes.;
- Easy to ensure the coupling position on shaft, and the connection precision is high ;
- Allow repeated use and easy to maintain.

★产品范围

★Product range

- 传递扭矩范围：26KNm~9052KNm
- 轴颈范围：100mm~700mm
- Torque transmission range: 26KNm~9052KNm
- Shaft journal range: 100mm~700mm

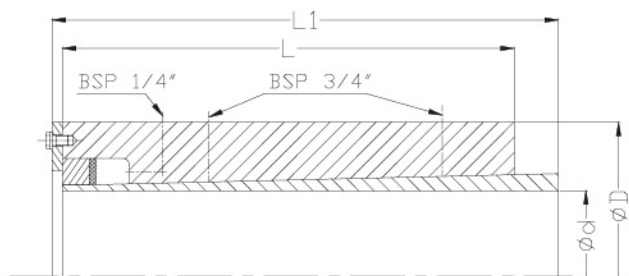




NHF系列 (NHF SERIES)

型号 Model	d	D	L	L1	Df	Dc	R	t	n	ds	Mt	Mass
	mm	mm	mm	mm	mm	mm	mm	mm		mm	KNm	kg
NHF100	100	170	215	40	265	230	9	21	8	19	26	26
NHF110	110	186	235	45	295	255	10	23	8	21	35	34
NHF120	120	202	250	50	315	275	11	25	8	23	46	42
NHF130	130	218	270	55	340	295	11	27	8	25	58	52
NHF140	140	234	290	60	355	310	12	29	10	24	72	64
NHF150	150	250	300	60	380	335	13	31	10	26	89	75
NHF160	160	266	320	65	405	355	14	33	10	28	108	91
NHF170	170	282	340	70	430	375	15	35	10	30	130	108
NHF180	180	298	355	75	440	390	15	37	12	29	154	124
NHF190	190	314	375	80	465	410	16	39	12	30	181	145
NHF200	200	330	390	80	490	435	17	41	12	32	211	167
NHF210	210	346	410	85	515	455	18	43	12	33	244	193
NHF220	220	362	425	90	535	475	19	45	12	35	281	219
NHF230	230	378	445	95	560	495	19	47	12	37	321	249
NHF240	240	394	465	100	580	515	20	49	12	38	365	282
NHF250	250	410	475	100	605	535	21	51	12	40	412	313
NHF260	260	426	495	105	630	560	22	53	12	42	464	352
NHF270	270	442	515	110	655	580	23	55	12	43	519	394
NHF280	280	458	530	115	675	600	23	57	12	45	579	434
NHF290	290	474	550	120	700	620	24	59	12	46	644	483
NHF300	300	490	565	120	720	640	25	61	12	48	713	528
NHF310	310	506	580	125	750	665	26	63	12	50	786	582
NHF320	320	522	600	130	770	685	27	65	12	51	865	638
NHF330	330	538	620	135	795	705	27	67	12	53	948	700
NHF340	340	554	635	140	815	725	28	69	12	54	1037	759
NHF350	350	570	650	140	835	745	29	71	12	56	1131	823
NHF360	360	586	670	145	840	750	30	73	16	50	1231	878

型号 Model	d	D	L	L1	Df	Dc	R	t	n	ds	Mt	Mass
	mm	mm	mm	mm	mm	mm	mm	mm		mm	KNm	kg
NHF370	370	602	690	150	855	770	31	75	16	51	1337	951
NHF380	380	618	705	155	880	790	31	77	16	53	1448	1026
NHF390	390	634	725	160	900	810	32	79	16	54	1565	1108
NHF400	400	650	740	160	930	835	33	81	16	56	1689	1194
NHF410	410	666	755	165	950	855	34	83	16	57	1819	1277
NHF420	420	682	775	170	975	875	35	85	16	58	1955	1376
NHF430	430	698	795	175	995	895	35	87	16	60	2098	1474
NHF440	440	714	810	180	1020	915	36	89	16	61	2248	1574
NHF450	450	730	825	180	1040	935	37	91	16	63	2405	1674
NHF460	460	746	845	185	1060	955	38	93	16	64	2569	1787
NHF470	470	762	860	190	1085	975	39	95	16	65	2740	1900
NHF480	480	778	880	195	1105	995	39	97	16	67	2918	2022
NHF490	490	794	900	200	1130	1015	40	99	16	68	3105	2156
NHF500	500	810	910	200	1150	1035	41	101	16	70	3299	2267
NHF510	510	826	930	205	1175	1055	42	103	16	71	3501	2411
NHF520	520	842	950	210	1195	1075	43	105	16	72	3711	2554
NHF530	530	858	965	215	1220	1095	43	107	16	74	3929	2698
NHF540	540	874	985	220	1240	1115	44	109	16	75	4155	2852
NHF550	550	890	1000	220	1270	1140	45	111	16	77	4391	3014
NHF560	560	906	1020	225	1290	1160	46	113	16	78	4634	3180
NHF570	570	922	1035	230	1310	1180	47	115	16	79	4887	3338
NHF580	580	938	1055	235	1335	1200	47	117	16	81	5149	3524
NHF590	590	954	1075	240	1355	1220	48	119	16	82	5420	3708
NHF600	600	970	1085	240	1380	1240	49	121	16	84	5700	3877
NHF610	610	986	1105	245	1400	1260	50	123	16	85	5990	4072
NHF620	620	1002	1125	250	1425	1280	51	125	16	86	6289	4284
NHF630	630	1018	1140	255	1445	1300	51	127	16	88	6599	4477
NHF640	640	1034	1160	260	1465	1320	52	129	16	89	6918	4692
NHF650	650	1050	1175	260	1495	1345	53	131	16	91	7247	4917
NHF660	660	1066	1190	265	1515	1365	54	133	16	92	7587	5128
NHF670	670	1082	1210	270	1540	1385	55	135	16	93	7937	5375
NHF680	680	1098	1230	275	1560	1405	55	137	16	95	8298	5618
NHF690	690	1114	1245	280	1585	1425	56	139	16	96	8669	5860
NHF700	700	1130	1260	280	1605	1445	57	141	16	98	9052	6097



NHC系列 (NHC SERIES)

型号 Model	d mm	D mm	L mm	L1 mm	Mt KNm	Mass kg
NHC100	100	180	265	295	26	39
NHC110	110	196	285	315	35	49
NHC120	120	212	305	335	46	61
NHC130	130	228	330	360	58	75
NHC140	140	244	350	380	72	91
NHC150	150	260	375	405	89	109
NHC160	160	278	415	445	108	137
NHC170	170	296	435	465	130	163
NHC180	180	314	455	485	154	192
NHC190	190	332	475	505	181	223
NHC200	200	350	495	525	211	259
NHC210	210	366	520	550	244	295
NHC220	220	382	540	570	281	332
NHC230	230	398	560	590	321	372
NHC240	240	414	580	610	365	414
NHC250	250	430	600	635	412	464
NHC260	260	446	630	665	464	521
NHC270	270	462	650	685	519	575
NHC280	280	478	675	710	579	636
NHC290	290	494	695	730	644	697
NHC300	300	510	715	750	713	761
NHC310	310	526	740	785	786	846
NHC320	320	542	760	805	865	920
NHC330	330	558	785	830	948	1003
NHC340	340	574	805	850	1037	1085
NHC350	350	590	825	870	1131	1172
NHC360	360	606	855	900	1231	1277

型号 Model	d mm	D mm	L mm	L1 mm	Mt KNm	Mass kg
NHC370	370	622	875	920	1337	1373
NHC380	380	638	895	940	1448	1474
NHC390	390	654	915	960	1565	1579
NHC400	400	670	935	980	1689	1690
NHC410	410	686	965	1010	1819	1824
NHC420	420	702	985	1030	1955	1945
NHC430	430	718	1010	1055	2098	2082
NHC440	440	734	1030	1075	2248	2215
NHC450	450	750	1050	1095	2405	2353
NHC460	460	766	1075	1120	2569	2508
NHC470	470	782	1095	1140	2740	2658
NHC480	480	798	1120	1165	2918	2826
NHC490	490	814	1140	1185	3105	2988
NHC500	500	830	1160	1205	3299	3157
NHC510	510	846	1185	1230	3501	3345
NHC520	520	862	1205	1250	3711	3527
NHC530	530	878	1230	1275	3929	3729
NHC540	540	894	1250	1295	4155	3924
NHC550	550	910	1270	1315	4391	4126
NHC560	560	926	1295	1340	4634	4350
NHC570	570	942	1315	1360	4887	4566
NHC580	580	958	1340	1385	5149	4806
NHC590	590	974	1360	1405	5420	5037
NHC600	600	990	1380	1425	5700	5274
NHC610	610	1006	1405	1470	5990	5615
NHC620	620	1022	1425	1490	6289	5871
NHC630	630	1038	1450	1515	6599	6154
NHC640	640	1054	1470	1535	6918	6426
NHC650	650	1070	1490	1555	7247	6705
NHC660	660	1086	1515	1580	7587	7015
NHC670	670	1102	1535	1600	7937	7311
NHC680	680	1118	1560	1625	8298	7639
NHC690	690	1134	1580	1645	8669	7952
NHC700	700	1150	1600	1665	9052	8274