



# ZPMC集装箱吊具介绍

INTRODUCTION of ZPMC SPREADER



中华力量, 畅通世界  
CHINESE POWER, OPEN THE WORLD



ZPMC集装箱吊具经过多年的发展和提高，已经达到了年产各类吊具500余台，吊具使用领域主要为：岸边桥吊、轮胎吊、轨道吊、门座起重机、正面吊。全球在用吊具超过4000台。

ZPMC container spreader, after years of development and improvement, has reached an annual output of various types of spreader for more than 500 sets, spreader using main areas for: STS, RTG, RMG, gantry crane, reach stacker. There are more than 4000 sets are using on a global scale.



ZPMC集装箱吊具，共有八大类百余个品种

ZPMC container spreader, a total of eight categories more than 100 varieties

有56国家的260余个码头使用ZPMC吊具，07年以后，振华吊具品质有了较大提升，设计理念、生产工艺、配套元件等方面都有大幅度改善。很多早期使用过，近年来没有使用过ZPMC吊具的朋友，特别是国外朋友需要重新认识ZPMC吊具，07年FELIXSTOWE码头使用了我们的双箱吊具，后来他们真诚的告诉我说：桥吊吊具，ZPMC是全球最好的。

There are 56 national more than 260 terminal using ZPMC spreader, since 2007, Zhenhua spreader quality has improved greatly, also design concept, production technology, accessory and other work has improved greatly. Many early user, in recent years, does not use the ZPMC spreader, especially foreign friends need to re-assess ZPMC spreader, FELIXSTOWE terminal using the twin lift container spreader of ZPMC since 2007, later they tell me sincerely: STS spreader, ZPMC is the best all over the world.



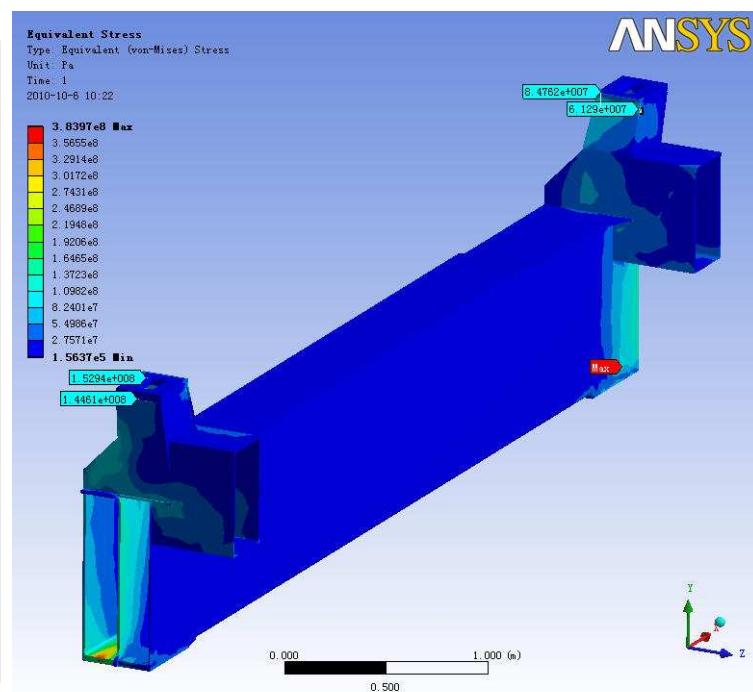


对每个吊具零件进行重新优化设计，凸显在高强度冲击条件下的可靠性。

倾听码头一线操作者的声音进行人性化设计，使吊具维修保养更加方便简单。

The redesign and optimization of each part are processed of the spreader, especially the reliability in heavy impact conditions.

Listen to the terminal front-line operator voice for humanization design, enhance the convenience of the maintenance.



# ZPMC集装箱吊具介绍

## INTRODUCTION of ZPMC SPREADER



上海振华重工  
Shanghai Zhenhua Heavy Industries Co., Ltd.



优化生产工艺，使产品质量更加稳定，我们提出“用设备替代人工技能来保障质量”，我们制作了大量的生产工装，所有的吊具零件生产环节都在使用专用工具、设备。

这样的改进体现在产品中就是零部件互换性好，所有吊具都同样具有稳定的性能。

Optimize the manufacturing process, so as to reach credible high quality, we put forward:" equipment to replace the manual skills to guarantee the quality", we have produced a large number of processing equipment, all of the spreader parts are produced in use of special processing equipment.

Such improvements are demonstrated in the product as good interchangeability of components, all the spreader has stable performance.

## 检测与实验

- 元器件冲击实验机  
Impact test machine for components
- 转销疲劳实验机  
Fatigue test machine
- 吊具功能实验台  
Function test equipment
- 吊具冲击实验台  
Impact test equipment for spreader

我们拥有完善的生产检测和新品试验能力，在开发新品方面快速、有效

We have perfect production testing and product testing capabilities, and we are effective and efficient in the development of new products



我们对每个配套件进行专题研究，研发和选用最能适应岸边集装箱吊具恶劣工况的零件。

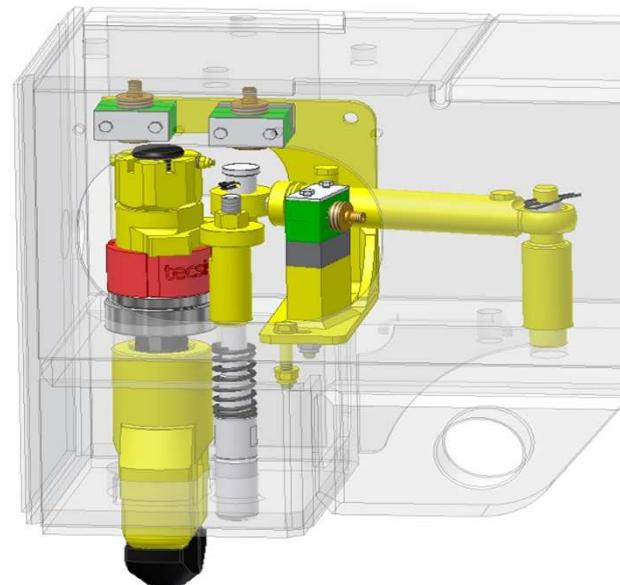
We do the monographic research with each accessory, to develop and select the perfect parts for the bad working condition.





集装箱称重系统的研究，我们有意将超载保护、计量称重、防钩箱保护功能结合到吊具转销称重装置中，目前与两家德国传感器公司和一家中国公司合作，力图甄选出更加可靠的称重元件用于ZPMC吊具，已经装配一台吊具和三台上架在码头使用。

Container weighing system, we are trying to combine the functions together such as the overload protection, weighing, hooked detection and so on, now we are collaborating with two German companies and a Chinese company, to select a more reliable weighing sensor for ZPMC spreader, moreover, we have assembled a spreader and three head blocks in the dock, and they are in good status using.





吊具减震是提高吊具钢结构使用寿命、减轻吊具自重的重要命题，我们曾经制作过用橡胶缓冲器进行端梁减震，并将他装在吊具上进行使用，结果发现，这种方案存在橡胶老化、能量不能被吸收等问题；我们设计了带储能和阻尼功能的液压减震装置，试验证明可减少冲击50%以上，目前正在做进一步的耐久试验。

Spreader damping is very important to improve the service life of steel structure and reduce the self-weight, we have produced with rubber buffer for end beam damping, and arranged on the spreader, it was found, this scheme has some problems, such as rubber aging, energy can not be absorbed and so on; we designed the hydraulic damping device with energy storage and damping function, it can reduce the impact more than 50%, now further testing is in progress .

■ 目前我们对屈服强度为960和1200的超高强度钢板已经做完工艺评定，将有利于减轻集装箱吊具的自重。

We have finished the technology evaluation of the ultra high strength steel on yield strength of 960 and 1200 MPa, it will be beneficial to reduce the weight of the container spreader.



Domex 1200

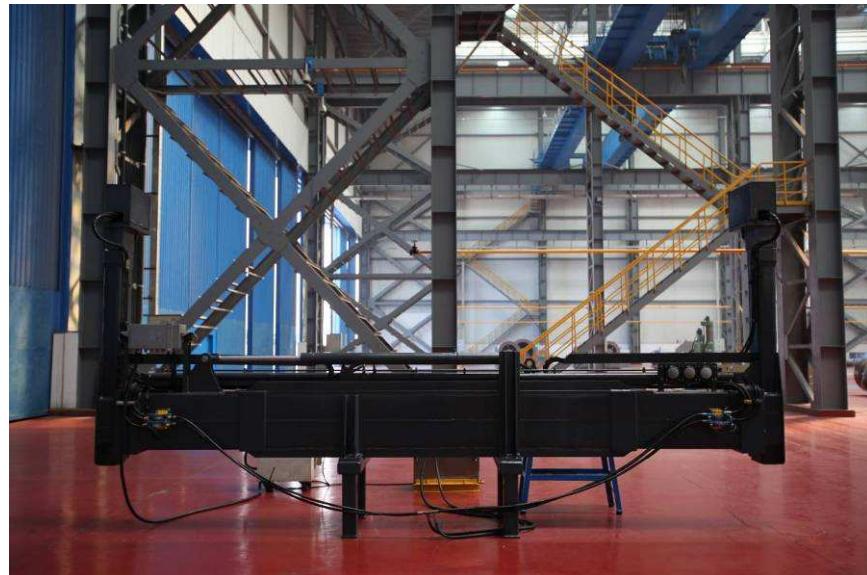
Domex 1200



Ultra high strength steel

流动机械吊具是ZPMC近年新进入的领域，秉承一贯的集装箱吊具设计理念，本着高起点，先进性的特点，生产的正面吊45吨吊具自重只有8吨，对提高正面吊效率，减少能耗有重要意义。

ZPMC is entering new territory for flow machine spreader, we uphold the consistent design concept of container spreader, in line with a high starting point, and the advanced characteristics, we produced the stacker spreader which SWL is 45 tons and self-weight only 8 tons, It has great value in improving crane efficiency and reducing energy consumption.





绿色环保概念是近年来港机发展的一个追求，ZPMC在绿色港机方面作了重要的研究和尝试，全电动集装箱吊具的推出，就是这一环保理念的重要体现，目前的全电动吊具品种包括轮胎吊、轨道吊吊具、门机吊具、岸桥吊具等，有单箱、双箱、旋转等多种型号。

The concept of green in recent years, as a aim of port machinery development, ZPMC has done an important research and attempt in the green port machinery, the launch of all electrical spreader is important reflect of the concept for environmental protection, now the all electrical spreader using in RTG, RMG, gantry crane, STS and so on, and the species include single lift spreader, twin lift spreader, rotary spreader etc.

ZPMC新开发的  
第二代电动双箱平  
移吊具：结构合理、  
抗冲击能力强、控  
制简单、节能环保。

ZPMC  
developed second  
generation all  
electrical twin lift  
spreader newly :  
reasonable  
structure, strong  
shock resistance,  
simple control,  
energy saving and  
environmental  
protection.



# ZPMC吊具部分业绩

## ZPMC SPREADER PART PERFORMANCE

用户 (Users)	国家 (Country)	数量 (Amount)	供货日期 (Date)
土耳其port of Iskenderun port of Iskenderun	土耳其 Turkey	7	2012-12
盐田国际集装箱码头 Yantian International Container Terminals	中国 China	8	2012-11
虎门港 Humen Port	中国 China	15	2012-11
大连港湾集装箱码头有限公司 Dalian Port Container Terminal Co., Ltd.	中国 China	8	2012-10
巴西Rio Grande Rio Grande	巴西 Brazil	8	2012-10
上海冠东国际集装箱码头有限公司 Shanghai Gaodong International Container Terminal Co.,Ltd	中国 China	4	2012-10
唐山曹妃甸港口有限公司 Tangshan Caofeidian Port Co.,Ltd	中国 China	8	2012-07
悉尼港 Sydney Port	澳大利亚 Australia	3	2012-07
宁波远东进出口公司 Ningbo Far East Imp.&Exp. Co.,Ltd.	中国 China	3	2012-06
宁波北仑港 Ningbo Beilun Port	中国 China	1	2012-05
土耳其KUMPORT KUMPORT	土耳其 Turkey	8	2012-03
美国SSA西雅图 SSA	美国 USA	4	2012-02
宁波五期码头 Ningbo Port (Phase V)	中国 China	8	2012-02
赤湾集装箱码头有限公司 Chiwan Container Terminal Co.,Ltd.	中国 China	5	2012-01
PCT码头 PCT	希腊 Greece	8	2011-12
威廉港 Wilhelmshaven	德国 Germany	1	2011-11

用户 (Users)	国家 (Country)	数量 (Amount)	供货日期 (Date)
日照港 Rizhao Port	中国 China	5	2011-11
香港HIT HIT	中国香港 Hongkong, China	10	2011-09
长滩港 Long Beach Port	美国 USA	3	2011-09
江阴苏南国际集装箱码头有限公司 Jiangyin Sunan International Container Terminal Co.,Ltd	中国 China	3	2011-06
釜山港 Busan Port	韩国 Korea	1	2011-05
天津港 Tianjin Port	中国 China	2	2011-05
菲利斯通港 Phyllis port	英国 UK	2	2011-03
青岛前湾集装箱码头 Qingdao Qianwan Container Terminal Co.,Ltd.	中国 China	1	2011-02
宁波大榭招商国际码头 China Merchants International Container Terminal	中国 China	1	2011-01
韩国YONGMOOM YONGMOOM	韩国 Korea	1	2010-09
巴西LIBRA LIBRA	巴西 Brazil	1	2010-07
越南CMIT CMIT	越南 Vietnam	15	2010-07
太仓国际集装箱码头公司 Taicang International Container Terminal Co., Ltd.	中国 China	36	2010-02
厦门国贸码头有限公司 Xiamen ITG Terminals Co.,Ltd.	中国 China	2	2010-01
苏丹港务公司 Sudan Port Service Co.,Ltd.	苏丹 Sudan	12	2010-01
厦门海沧新海达集装箱码头有限公司 Xiamen Haicang Xinha Port Container Terminal Co.,Ltd	中国 China	11	2010-01



谢谢观看  
THANKS



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