

八大优势，无悔之选

Eight Advantages, Zero Regret



易达科技(香港)有限公司
Easyroll Technology (Hong Kong) Limited

For Container/Pallet Loaders & Cargo Transfer Decks
适用于集装箱集装板装载机及货物运转服务台

世界唯一防滑环保复合滚轮 The only anti-slip Environmentally Friendly Composite Rollers

小创新大改变，平台车打滑问题
不再，雨天表现更卓越

Small Change, Big Impact: Solving Skidding
Issues in Airport Cargo Loaders, Delivering
Excellence Even in Rain

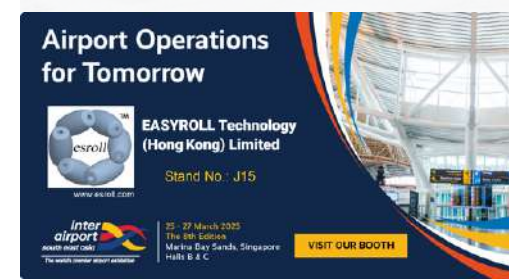
你的设备增值了吗？

Have you enhanced the value of
your equipment?

支持低碳产品 支持环保
All Together, Let Us Go Green

欢迎查询或订购 征求海外代理
Inquiries and Orders Welcome!
Seeking Overseas Agents.

- 一、节省成本: 节省约20-40%的成本及 1.5次更换的费用
1. Cost savings: our product helps you save 20-40% cost and 1.5x replacement fees
- 二、防滑特性: 出色的防滑性能，尤其在潮湿天气或下雨天
2. Skid-proof property: excellent skid-proof performance especially in rainy and extreme weathers
- 三、耐用耐磨: 约是铝合金滚轮的2.5倍生命周期
3. Higher durability & wear resistance: 1.5 times life-cycle more than Aluminum roller
- 四、质量检测: 产品数据来自第三方国际权威检测机构 SGS, CTI 与 Fugro
4. Quality tested: product's data supported by authoritative laboratories including SGS, CTI and Fugro
- 五、降低重量: 重量只是铝合金滚轮约47%，可降低平台上的重量及节省能源
5. Reduced weight: weighs only 47% of aluminum roller which reduces potential damage to Loader's hydraulic pump as well as fuel consumption
- 六、环境改善: 减少金属粉尘污染，噪音，创造更安全的环境，为可持续发展作出贡献
6. Environmental improvement: reduces metal dust pollution and noise pollution to create a safer working environment, contributing to sustainable development
- 七、品质保用: 承诺3年保用期，且不限于产品使用时间
7. Quality warranty: a 3-year warranty is granted, without the limit on product's usage time
- 八、专利保护: 本产品已获得全球发明专利，是您在市场上唯一值得信赖的专利复合材料滚轮
8. Patent protection: The only patented Smart Composite Roller you can trust

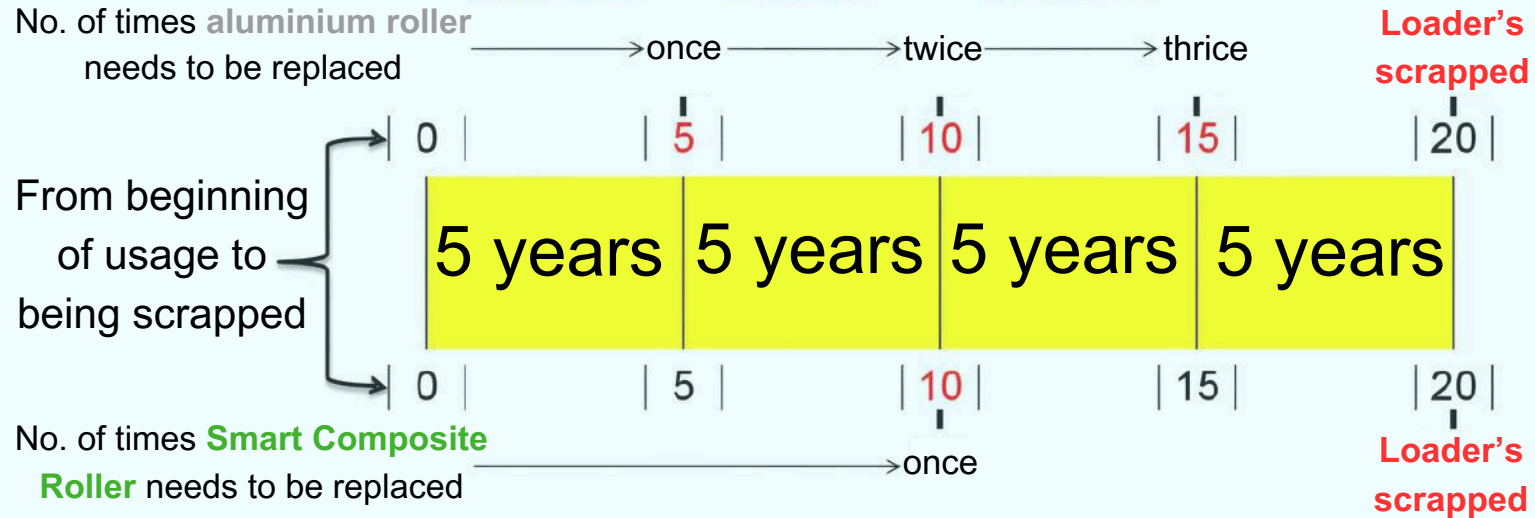


website: www.esroll.com
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JBT Loader (Low Deck): Cost Savings from Replacing Rollers Comparison Chart

Estimation: If 100 Loaders adopt Smart Composite Roller, HKD40,000,000 can be saved across 20 years

For every replacement/parts, approximately HKD200,000 is cost x 3 times = HKD600,000



For every replacement/parts, approximately HKD200,000 is cost x 1 times = HKD200,000

Be Smarter, Use Smart Composite Roller

By adopting our latest composite rollers, you can solve the long-unsolved problem of skidding.

Our rollers' skid-proof material is specifically invented and owns patent, outperforming traditional products in this field with results as below

Weather	Aluminum rollers	Composite rollers	Friction
Dry	10.33 (N)	16.66 (N), 61% More friction	Average value
Wet	8.00 (N)	18.33 (N), 129% More friction	

Report from Third-party Internationally well-known laboratories providing the results

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Client Ref. : --
 Report No. : 153452ST150673 Page 1 of 2

REPORT ON DETERMINATION OF THE COEFFICIENT OF DYNAMIC FRICTION OF ROLLERS WITH ALUMINUM PLATE

Information Supplied by Client
 Client : Easyroll Technology (Hong Kong) Ltd.
 Project : Testing of the Rollers with Aluminum Plate
 Sample Description : Aluminum plate (Air Pallet PMC)

Laboratory Information
 Lab. Sample I.D. : ST150673/1-8
 Date Received : 30 July 2015
 Date Tested : 20 August 2015
 Test Method : In-house method : STMS-3634C
 Vertical Load : 50 lbs

Aluminum Roller

Lab. Sample I.D.	Number of ReadingTime	Pull out force (N)	
		Dry Condition	Wet Condition
ST150673/1-4	1	10	8
	2	10	8
	3	11	8
	Average	10.33	8

Composite Nylon Roller

Lab. Sample I.D.	Number of ReadingTime	Pull out force (N)	
		Dry Condition	Wet Condition
ST150673/5-8	1	17	18
	2	16	19
	3	17	18
	Average	16.66	18.33

Remarks: 1.) The test results relate only to the sample tested.
 2.) The test configuration is shown in the photograph on page 2 of this report.

Checked by : *Ng Shu Shing* Date : 25 AUG 2015 Certified by : *Ng Shu Shing* Date : 25 AUG 2015
 Assistant Manager (Product Testing Laboratory)

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GSEL's Official Review of Smart Composite Roller on Different Loaders

Loader Type	Hours of Usage Available
Main Deck (14,000 kg)	14,200
Lower Deck (7,000 kg)	29,000

GSEL 地勤設備工程有限公司
 GROUND SUPPORT ENGINEERING LIMITED
 Report no.: TR-15-12r1
 Report Date: 7 Mar 2014

Discussions with Ramp Handling operators determined minimum roller dimensions for satisfactory load transfer at the three measurement points as 27.65mm at points a and c, plus 41.82mm at the central point b.

The photo shows the Easyroll product as installed on HAS00207.

TRIAL RESULTS

The sample data included at the end of this report covers one lower deck 7,000 kg loader and one 14,000 kg main deck loader however the results were found to be consistent for the other trial units.

Without any information to the contrary it has been assumed that a linear wear pattern occurs in order to estimate the likely useful lifetime of the Easyroll. In the case of Hong Kong airport typical usage levels of 1,500 operational engine hours per annum for the 14,000 kg units and 2,500 for the 7,000 kg units have been taken.

Extrapolation of the trial results indicate a projected lifetime of the Easyroll of 9.5 years or 14,200 operational hours for the 14,000 kg units. For the 7,000 kg units the projected lifetime is 11.7 years or 29,000 operational hours.

Historical data at Hong Kong International Airport shows the Aluminum roller to have a typical lifespan of 5 years on main deck loaders and 6 years on lower deck loaders.

Discussions with the end user have confirmed that from an operator perspective there is no noticeable difference between the Aluminum and Easyroll product.

A further point to note is that the Easyroll unit weight is 130g versus 300g for the Aluminum product. This represents an approximate weight saving of 114kg on a JBT/FMC lower deck loader and 175kg on a JBT/FMC main deck loader.

CONCLUSIONS

Analysis of the 3 years of in-service test data has confirmed that compared to the original Aluminum product the Easyroll provides the following clear benefits:

Fear No More the Weather, Use Scientific Rollers

