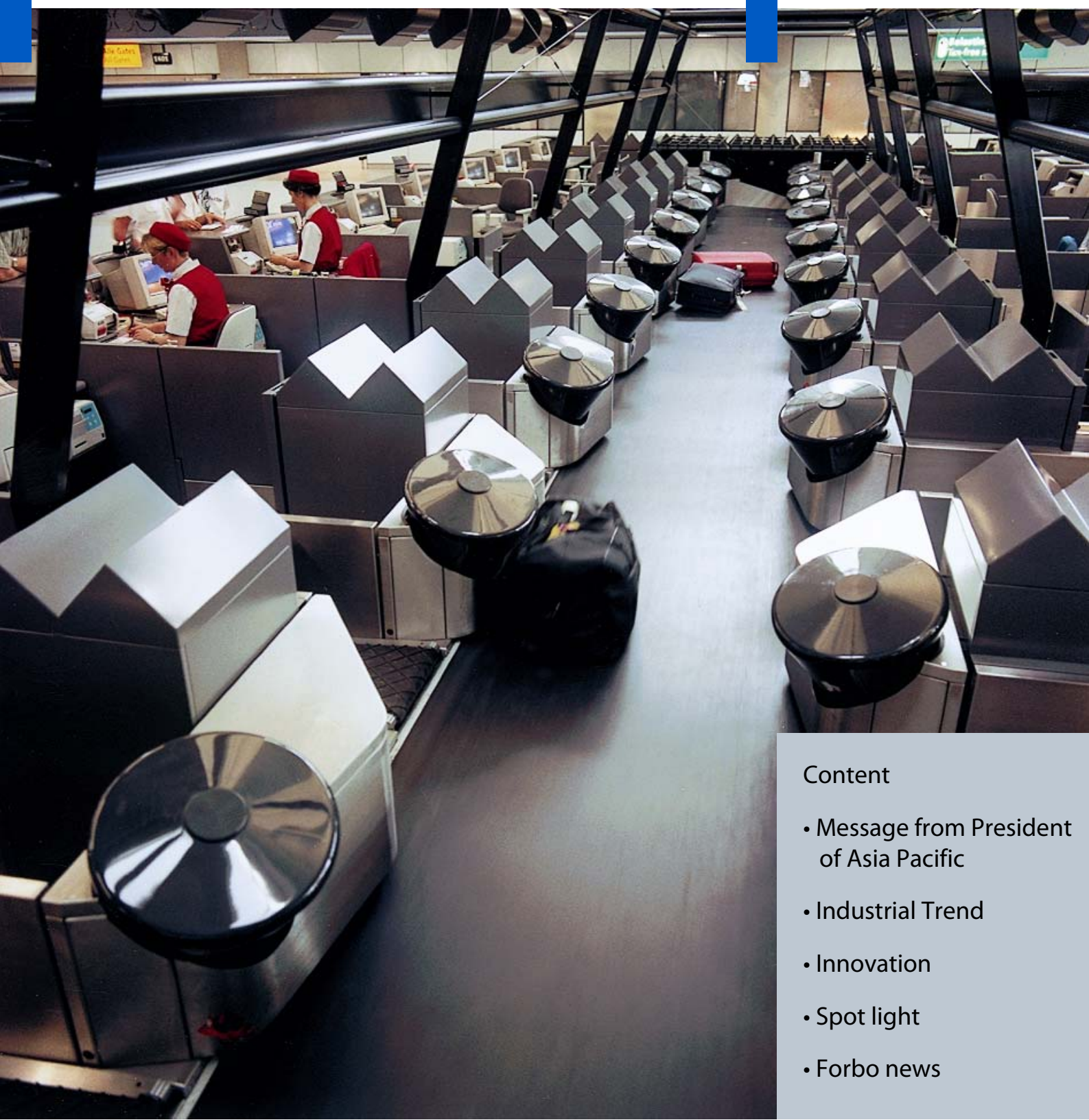


# China newsm@il

2 | 2013



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# Message from President

Dear valued Customer,

Thanks for your positive feedback in 1st edition of China Newsmail. We got a lot of valuable comment from our customers how to further enrich the content inside the newsmail. It is proud for us to release the 2nd edition of China Newsmail.

The focus of this edition is in the Logistics Industry. Globally this is another strongest segment we have. We strive for a leading position in China as well. Currently, we have two innovation products which are specially developed for Logistics Industry to enhance the energy saving and environmental protection. They are Amp Miser™ and Bio Belt™. It is the newest technology that we are proud of.

In the Spotlight, you will find a lot of successful stories why Forbo Siegling's belt can gain the trust from Logistics Industry customers.

As usual, we bring you the updated news of Forbo Siegling: new belt types for Logistics industry and new Prolink software.

Once again, I would like to thank you for your loyalty respectively your trust to Forbo Siegling products and services.

Enjoy the reading!

Warm regards

Oliver Schutte

General Manager China and President Asia Pacific



## Industrial Trend

### Airport Development in China

Even the uncertainty of the worldwide economic development, China market is still to grow steadily compared to the rest of the world. To keep the leading position, China continues to invest their infrastructure so as to bridge the rest of the world. In the China civil aviation 12th Five – Year Plan, airport development will be one of the key elements in the plan. China will construct 70 new airports mainly in central and western parts, renovate and expand 101 current airports (as shown below). In total, there are 230 airports by 2015. The whole airport industry infrastructure investment scale will reach 425 billion RMB.





Source: Table 4, in the chapter 5 of "12th Five-Year" period, enhancement the competitiveness of airport China Civil Aviation Development Twelfth Five-Year Plan (2011-2015)

Type	Name of Airport
Renovation & Extension	Harbin, Changchun, Yanji, Shenyang, Dandong, Changhai, Dalian, Tianjin, Shijiazhuang, Handan, Tangshan, Datong, Changzhi, Yuncheng, Hohhot, Hailaer, Wulanhaote, Tongliao, Chifeng, Baotou, Ordos, Jinan, Weihai, Dongying, Shanghai Pudong, Shanghai Hongqiao, Nanjing, Xuzhou, Changzhou, Nantong, Huai'an, Yancheng, Wuxi, Fuyang, Anqing, Ningbo, Zhoushan, Hangzhou, Yiwu, Wenzhou, Huangshan, Fuzhou, Wuyishan, Xiamen, Quanzhou, Liancheng, Nanchang, Jingdezhen, Ganzhou, Jinggangshan, Zhengzhou, Luoyang, Nanyang, Wuhan, Xiangfan, Yichang, Enshi, Changsha, Changde, Zhangjiajie, Huaihua, Yongzhou, Guangzhou, Meizhou, Shenzhen, Foshan, Zhanjiang, Nanning, Guilin, Liuzhou, Baise, Haikou, Sanya, Chongqing, Wanzhou, Chengdu, Dazhou, Nanchong, Jiuzhaigou, Xichang, Panzhihua, Guiyang, Tongren, Anshun, Lijiang, Tengchong, Xishuangbanna, Lhasa, Qamdo, Nyingchi, Xi'an, Yulin, Yinchuan, Lanzhou, Qingyang, Dunhuang, Xining, Urumqi, Hami, Korla, Hotan
Relocation	Qinhuangdao, Jinzhou, Taizhou, Wuzhou, Luzhou, Yibin, Yan'an, Ankang, Tianshui, Qiemo. Dalian, Qingdao, Xiamen, Chengdu.
New Construction	Jiagedaqi, Fuyuan, Wudalianchi Jiansanjiang, Suifenhe, Tonghua, Baicheng, Songyuan, Yingkou, New Beijing, Chengde, Zhangjiakou, Xingtai, Luliang, Wu- tai Shan, Linfen, Shanxi, Aershan, Bayannur, Huolinhe, Zalantun Ulanqab, Rizhaoand, Su, Lishui, Jiaxing, Sanming, Putian, Shangrao, Yichun, Wuhu, Jiuhua Mountain, Shangqiu, Xinyang, Henan, Pingdingshan, Shennongjia, Shiyan, Hengyang, Wugang, Shaoguan, Huizhou, Yueyang, Hechi, Danzhou, Qionghai, Wushan, Wulong, Leshan, Daocheng, Huangyuan, Zunyi, Huangping, Bijie, Liupanshui, Lugu Lake, Red River, Cangyuan, Lancang, Nagqu, Fugu, Gansu, Jinchang, Zhangye, Xiahe, Delingha, Guoluo, Shihezi, Fuyun, Shache.
Study	Raohe, Baoqing, Jilin, Anshan, Fuxin, Benxi, Cangzhou, Caofeidian, Chengde Weichang, Jincheng, Tumushuke, Linxi, Liaocheng, Binzhou, Bozhou, Zhangzhou, Fuzhou, Jingmen, Loudi, Chenzhou, Hezhou, Deqin, Dingbian, Pingliang, Shizuishan, Wuzhong, Loulan, Tazhong

## DHL Launches Center of Excellence in China

[Posted on 11 April 2013 by Syed Shah from Logistics Insight Asia <http://www.logasiamag.com>]

**The 10,500 square metre center is at the heart of a unique integrated end-to-end approach designed to meet the detailed needs of the high-fashion and luxury industry.**

DHL Global Forwarding is launching this spring its fashion centre of excellence in Jiuting, on the outskirts of Shanghai, China's high-fashion capital. At an investment of 4.3 million euros, the 10,500 square metre centre is at the heart of a unique integrated end-to-end approach designed to meet the detailed needs of the high-fashion and luxury industry. The centre combines DHL's value-added services and a team dedicated to high-fashion and luxury to manage the entire fashion supply chain from source origin countries in Europe and the USA to safe arrival at retailers across mainland China.

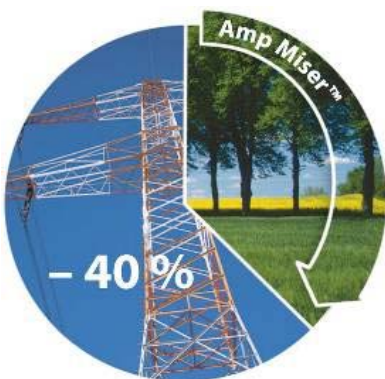


# Innovation

Forbo Siegling's objective is to maximize environmental friendliness and enhance product value at the same time. This approach is the cornerstone of our research and development where we work closely with OEMs and users. Amp Miser™ conveyor belts and BioBelt™ are an impressive example.

## Amp Miser™

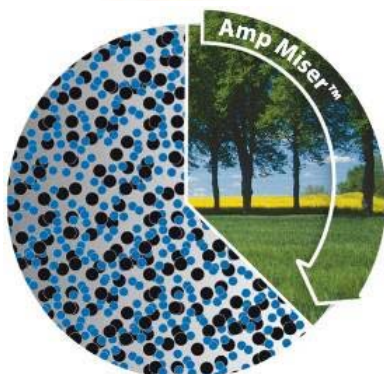
Due to a drastically reduced friction coefficient, Amp Miser™ belts have an impact where energy losses in a conveyor are usually the greatest: in the friction pairing between the underside of the belt and support. By adding patented Texglide to the underside fabric, a smooth layer is created that permanently acts like a dry lubricant and therefore minimizes energy consumption.



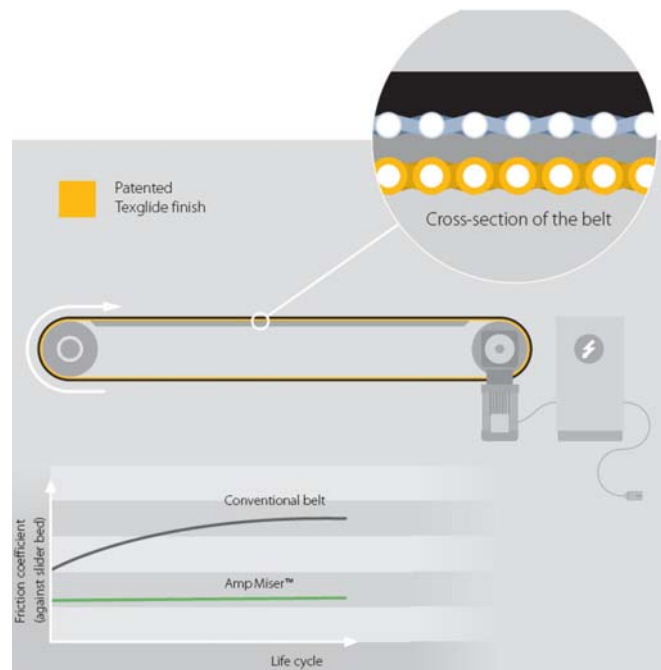
Lower power consumption



Low energy costs



Few CO<sub>2</sub> emissions



Amp Miser™ conveyor belts excel when several belts are used and goods are constantly conveyed, in other words, apart from at airports, particularly in logistics and distribution centres. In these types of applications, energy savings of up to 40 percent were measured in conveying systems.

Except when unpackaged food is conveyed, Amp Miser™ conveyor belts are ideal for virtually all applications connected with unit goods conveying. Further advantages include: the cut in noise emissions by an average of 2 decibels compared with conventional conveyor belts, resistance to the impact from chemicals such as kerosene vapours and the reduction of CO<sub>2</sub> emissions due to low energy consumption.

Amp Miser™ proved itself consuming significantly less energy than traditional conveyor belts in different real-world conditions (as shown in the following table). Owing to the excellent performance of Amp Miser™ belt, there are other airports and distribution centres equipped with Amp Miser™, including Hermes Warehouse, Hamburg, Edeka, Neuenkrug, DHL and Volkswagen AG in Germany, Airport Madrid in Spain, Airport Manchester in UK, Calijan Teleskop, Aarhus in Denmark and Airport Sydney in Australia.

You can know how much energy you can save online now, please visit [www.ampmiser.com](http://www.ampmiser.com). An interactive program guides you to calculate the enormous savings in your airport or distribution centre by Amp Miser™.

Measurements in real-world conditions have verified what numerous trials at the development and trial stage have indicated. Under a wide range of conditions, Amp Miser™ conveyor belts consume significantly less energy than traditional conveyor belts.

Name of Airport or distribution centre	Belt dimensions [mm]	Motor Capacity [kW]	Velocity [m/s]	Energy saving
TNT, Kingsbury, UK	15,800 x 700	2.2	1	39.8%
Dusseldorf Airport, Germany	44,600 x 1,000	2.2	0.3	32.4%
Amsterdam Airport Schiphol, Netherland	34,550 x 1,000	3.0	1	30.1%
Kastrup Airport Copenhagen, Denmark	48,190 x 1,000	5.5	2	26.3%
Siemens Airport Center, Furth	19,200 x 1,000	2.2	1.5	26.5%

## Bio Belt™

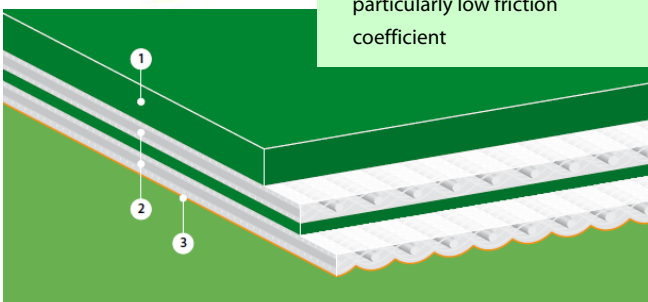
Environmentally friendly products not only concern in energy saving and reduction of CO<sub>2</sub> emission, but also material re-cycling. Based on this concept, Forbo Siegling developed Bio Belt™ products. In Bio Belt™ products, petroleum-based feedstock and synthetic materials have been extensively replaced by renewable plant based materials. Because they are bio-degradable at the end of their product life, these play a major role in complying with the “cradle-to-cradle” principle.

The Bio Belt™ concept has a modular structure in order to tap into as wide a range of applications as possible. The belt's component parts can be modified to suit the application to make it as sustainable as possible. If required renewable materials can be used that are not bio-degradable.



### Modular product structure

- ① Top-face coating based on renewable materials, bio-degradable
- ② Tension member with a special weave made of cellulose fibres, bio-degradable
- ③ Underside coating with particularly low friction coefficient



In terms of their physical and dynamic characteristics, Bio Belt™ products are identical to conveyor belts made of synthetic materials. The same goes for their level of performance and durability. Technical modifications to the conveyors are unnecessary and even the splicing methods are the same.

Successful tests in real-world conditions show that Bio Belt™ products are just as ideal for airports as for parcel sorting, logistics centers and for industrial production. To date Bio Belt™ is available in two versions and more are in the pipeline.

Together with special coating (Amp Miser™) on the underside, it is the perfect solution for designers or customers who strive for Green Design today. For further details, please visit [www.forbo-siegling.com](http://www.forbo-siegling.com).



## Spot Lights - Logistics

**Customer** : Xi'an Magnetic Forest Electronics Co Ltd

**Product** : Transilon E 8/2 U0/V5 Green

### Application in Brief :

Belt in transportation machine

### Successful Factors :

- Supreme quality in surface coating to provide an effective transportation without slipping and long service life;
- Small elongation of the belt;



**Customer** : Shan Xi Shunhe Electromechanical Co Ltd.

**Product** : Transilon E 8/2 0/V10 Green

### Application in Brief :

Belt in transportation machine

### Successful Factors :

- High quality of the fabric to provide an excellent lateral stability;
- Long service life;



**Customer** : China Post Technology Co Ltd

**Product** : Transilon E 8/2 U0/V7 SG BK

### Application in Brief :

Belt in transportation machine

### Successful Factors :

- Appropriate ratio between strength and thickness of the belt and fit for smaller roller drum design;
- Good design of the pattern to prevent the goods from slipping;



**Customer** : Shan Dong Lanjian Logistic Technology Co Ltd

**Product** : Transilon E 5/2 0/V4 GSTR BK

### Application in Brief :

Belt in X-ray scanning machine

### Successful Factors :

- Appropriate ratio between strength and thickness of the belt and fit for smaller roller drum design;



# Forbo News


## New Product Launch

Several types of belts are available for food and industrial production industries.

### Transilon E 4/2 U0/U2 QS-HACCP-FF blue FDA (art. no. 906765)

It is a new urethane belt type with a quartz sand pattern (QS). The new QS surface pattern has proved to be the perfect solution, when processing very elastic dough in pizza dough manufacture. Due to good product adhesion, the original shape of the pieces of dough is retained and when transferred at the knife edge the product releases itself easily from the belt. In addition, the belts are fray-free and in blue, which support hygiene in the food processing.

#### Basic technical data

Top face	: urethane
Underside	: urethane-impregnated
D <sub>min</sub>	: r = 3mm
Total thickness	: 1.35mm
K <sub>1</sub> relaxed	: 5N/mm width
Weight	: 1.5kg/m <sup>2</sup>
Perm. op. temp.	: -30 to 100°C
Sketch	: 

## New modules for Prolink S4.1 and S8

Two new designs have been added to series 4.1.

- Friction Top (FRT): HighGrip surface with triangular grips which are ideal in inclined conveying, or separating accumulated products in the food or non-food sectors.
- Nub Top (NTP) pattern especially for conveying in the food industry, where both grip and release characteristics are important.



Friction Top (FRT) in Prolink S4.1 Nub Top (NTP) in Prolink S4.1  
One new design has been added to series 8.

- Friction Top (FRT): HighGrip surface with cube-shaped grips, for example for inclined conveying in the tyre, nonwoven, or parcel conveying industries.

Both offer POM belts with FRT surfaces; therefore it can deliver a robust and durable performance.



For further details, please contact our sales engineers *Friction Top (FRT) in Prolink S8* or e-mail to us at [siegling.cn@forbo.com](mailto:siegling.cn@forbo.com)

## New Literatures are available

New literatures are available now! We developed new literatures to introduce the comprehensive Prolink Series and solution in industry product-ion industry (in Chinese). For further information, please contact our sales engineers or visit our website at [www.forbo-siegling.com.cn](http://www.forbo-siegling.com.cn)



Prolink Catalogue:  
Series 1 - Series 10

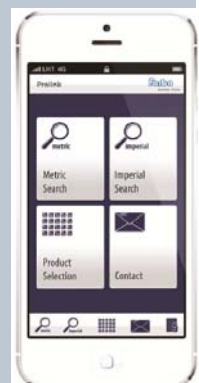
Industrial Production Industry:  
Automotive / Tyre / Metal Stamping

## New Prolink Software – Prolink Beltfinder

To help our customer to design their machine with the right belting system, Forbo Siegling engineers developed B\_Rex and Siegling Prolink (please visit [www.forbo-siegling.com](http://www.forbo-siegling.com) to download the program) calculation tool for our belting system. These calculation tools make quick and easy fitting or plausibility checks possible, taking into account all relevant operation parameters

Today, we further developed a new user-friendly tool – Prolink Beltfinder. The new Prolink-finder app will find the belt that fits these requirements simply and quickly just by using any mobile device such as a smartphone or a tablet. Thanks to the user-friendly interface, customer just had a few click in the screen based on their application, the right modular belt solution will prompt up automatically.

Please visit <http://m.prolink-finder.com> to enjoy the fantastic app right now!!



## Siegling – total belting solutions

Committed staff, quality-orientated organisation and production processes ensure the constantly high standards of our products and services. The Forbo Siegling Quality management System is certified in accordance with DIN EN ISO 9001.

In addition to product quality, environmental protection is an important corporate goal. Early on we also introduced an environmental management system, certified in accordance with ISO 14001



### Forbo Siegling Service – anytime, anywhere

In the company group, Forbo Siegling employs more than 1800 people worldwide. Our production facilities are located in eight countries; you can find companies and agencies with stock and workshops in more than 50 countries. Forbo Siegling service centres provide qualified assistance at more than 300 locations throughout the world.

#### Forbo Siegling (China) Co. Ltd.

No.5 Mochouhu Street, Shenyang Economic and Technological Development Zone, China 110141  
Phone +86-24-2581-6723, Fax +86-024-2581-6726  
Toll free phone 800-890-8016  
[www.forbo-siegling.com.cn](http://www.forbo-siegling.com.cn) , [siegling.cn@forbo.com](mailto:siegling.cn@forbo.com)

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