

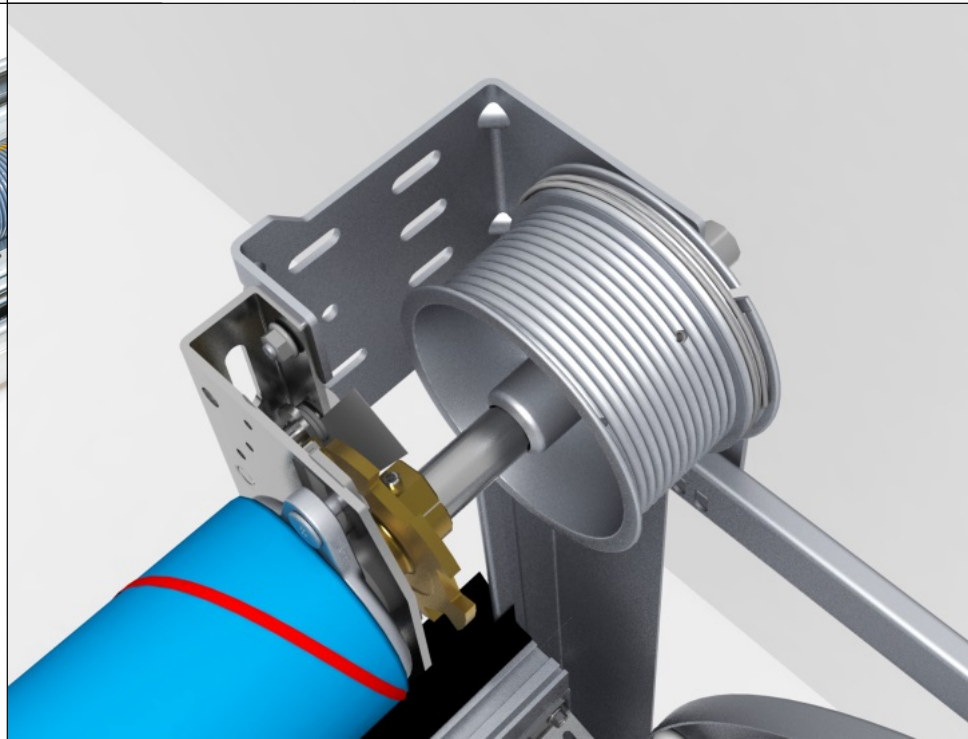
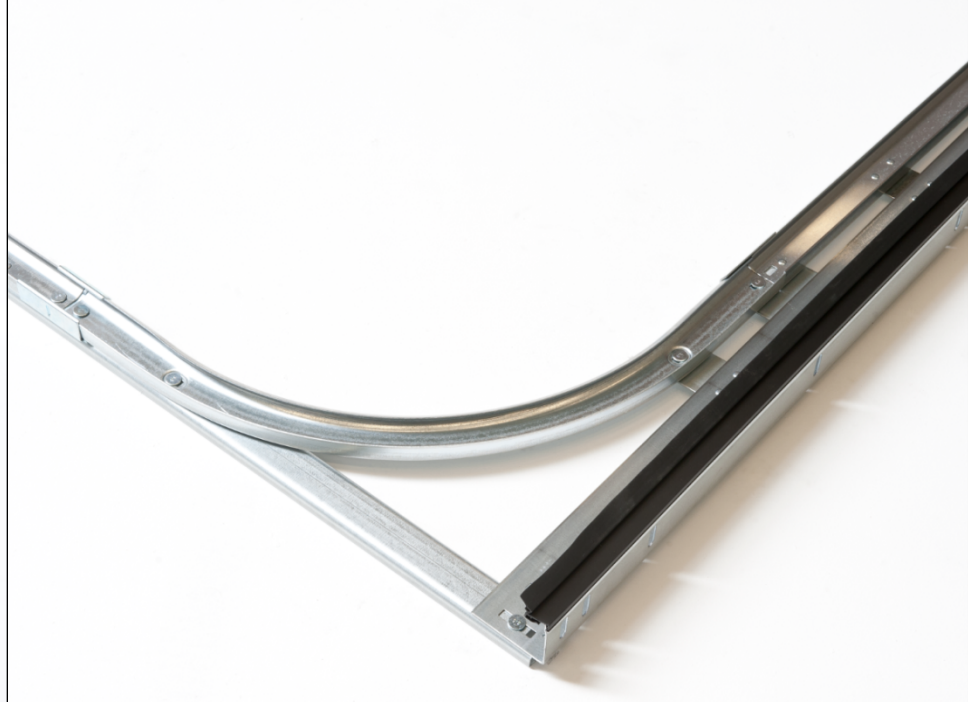
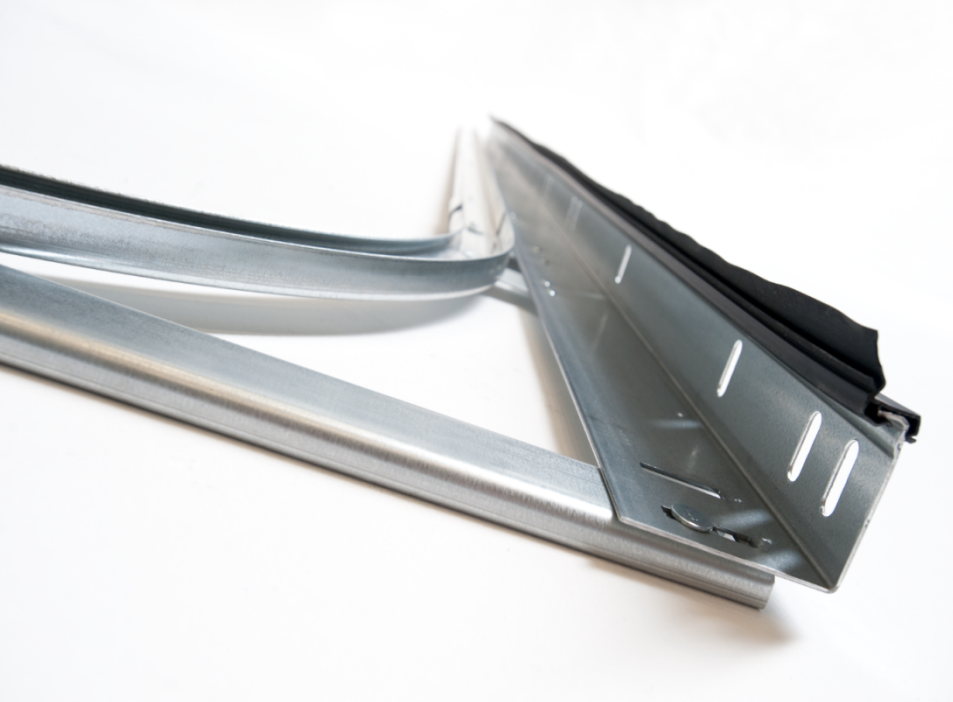
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INTRODUCTION

ISC INDUSTRIAL HARDWARE SETS



TWO THOUSAND SEVENTEEN



ISC INDUSTRIAL HARDWARE SETS

This presentation presents an overview of our new ISC hardware sets for industrial overhead doors. ISC stands for Industrial Supply Chain. This name explains our main goal: to let you outsource the production of hardware sets, completely or partially, to FlexiForce. We want to be an integral part of your supply chain. This allows you to profit from our high volume, efficient production lines. And from the fact that most of your fixed costs will turn into variable costs. Your working capital will not be caught up in your inventory, since you are able to order the hardware set after you have sold the door.

The idea is simple: While you assemble the door panel in your own production, FlexiForce takes care of the hardware set assembly. You ship the complete door, existing of the FlexiForce hardware set and your pre-assembled door sections to your customer. This is the best of both worlds: You, as entrepreneurial door producer, remain in control of your own strategy and destiny, while you outsource all the hardware hassle to FlexiForce.



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HOW DOES IT WORK?



CONFIGURATION

Find on www.flexiforce.com online product configuration software, CREATE ISC.

Two levels of configuration:

Wizard: Answering a limited number of questions will result in the selection of the recommended hardware set and accessories.

Expert: If you want to be fully in charge of all detailed component selection, we will ask you to fill in all details on how you would like us to prepare your hardware sets.



ORDERING

After confirming the selected dimensions and options, you can order the hardware set digitally. Your order will be processed through our web shop, which transfers all details and instructions to our production site.



PRODUCTION

The economy of scale in our new Hungarian factory is a major advantage for you. Imagine your hardware set, assembled in an efficient production line that handles a volume of over 50.000 hardware sets per year. Fixed-to-size spring and profiles, eliminating scrap. Complete and 100% checked to prevent any missing parts or screws.



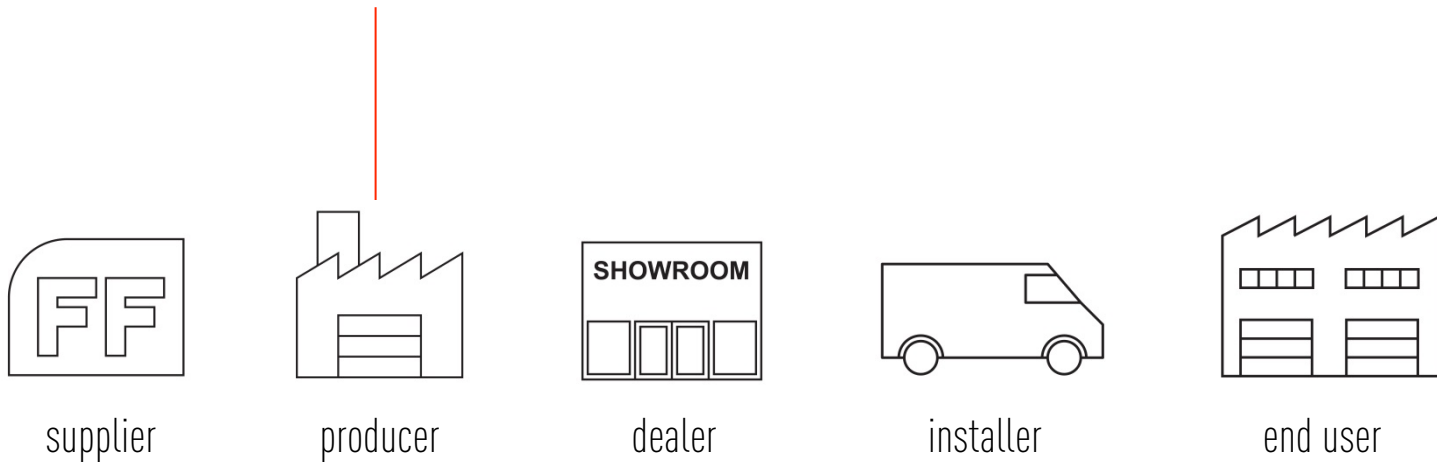
PACKAGING & SHIPMENT

The complete ISC hardware set, including pre-assembled shaft with springs, assembled trackset, hardware box and any selected option, will be packed and sealed to allow efficient and weatherproof transport.

You pick it up from your local FlexiForce DC together with your orders for hardware parts, panels or automation products. One-stop-shop and logistics. Our delivery time is two weeks. But we will solve any deadline demand that you might encounter!

BENEFIT FROM ISC

Our ISC hardware set offering is applicable to any industrial door volume from roughly 100 to over 10.000 doors per year. A potential solution for companies that consider becoming a door producer, for door producers that want to expand their business without heavy new investments in production lines, for residential door producers with a small complementary volume in industrial doors, for door producers that want to change their business model without becoming a dependent dealer of any third party door company. You can focus on the panel, the sales and the installation of the door. We take care of the hardware set.



YOUR ADVANTAGES

You outsource part of your production, but you remain in charge as door producer!

Major flexibility due to short lead-time of sets. We add your volume into our planning.

Fixed costs turn into variable costs, following your highs and lows in sales volume.

Stock reduction in parts, springs and profiles. Your money is not stuck in your inventory.

Buy-to-order. When the door is sold, you order the set. Reducing your pre-financing strains.

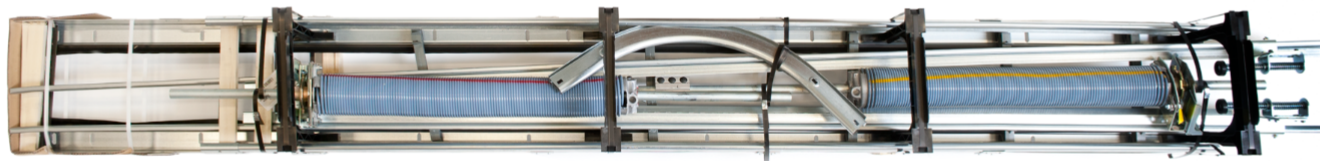
No investments in your production line for hardware.

Reduction of overhead and manning.

Efficiency: FlexiForce volumes allow quality control and advanced production systems.

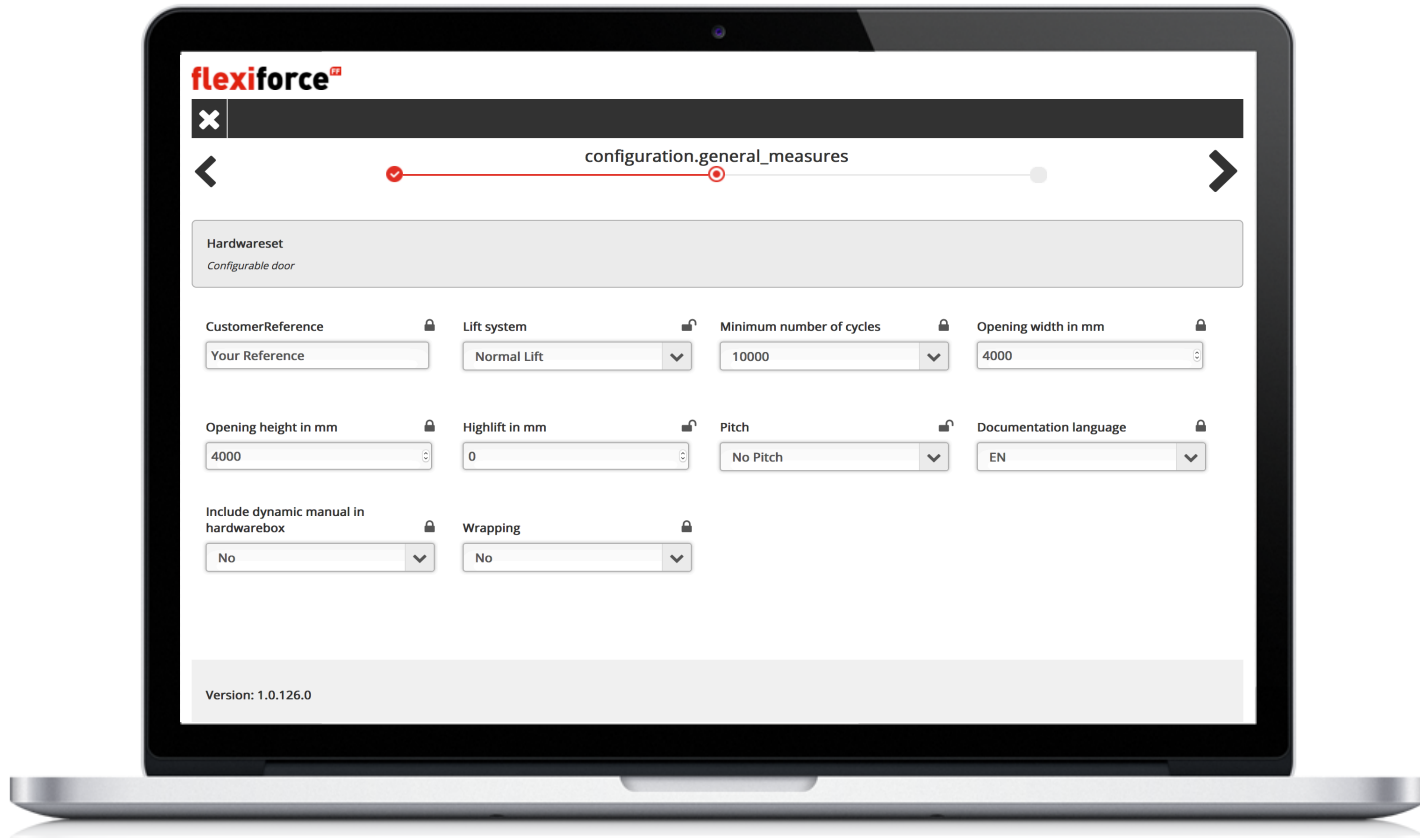
Production of springs and profiles fixed-to-size, without scrap. Saving up to 15%!

CE testing and approval done.

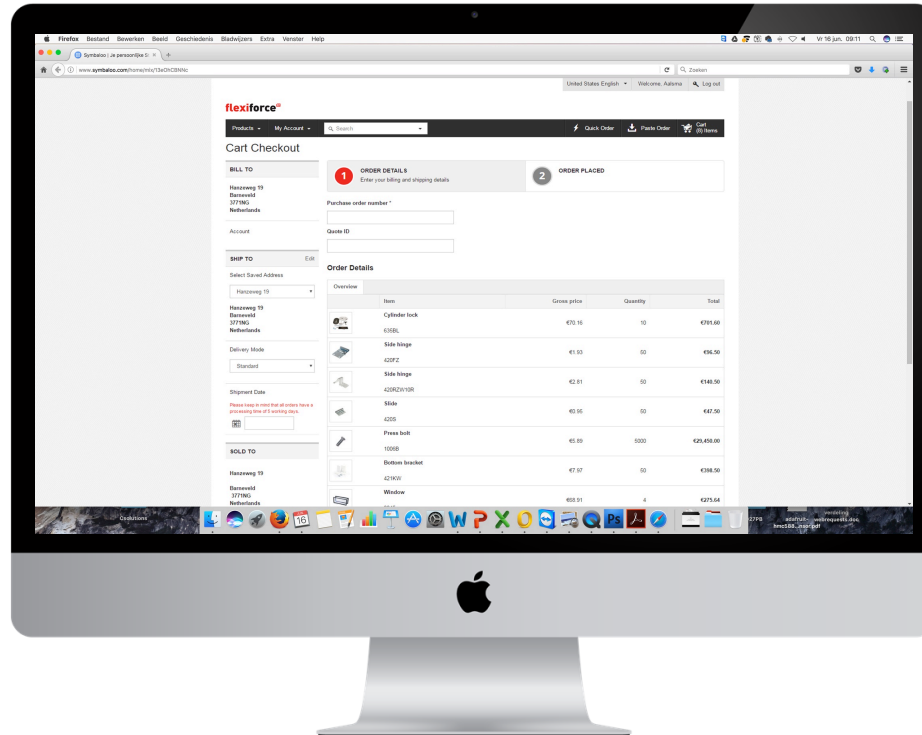


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ONLINE CONFIGURATION



ONLINE ORDERING



www.webshop.flexiforce.com

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MADE IN HUNGARY



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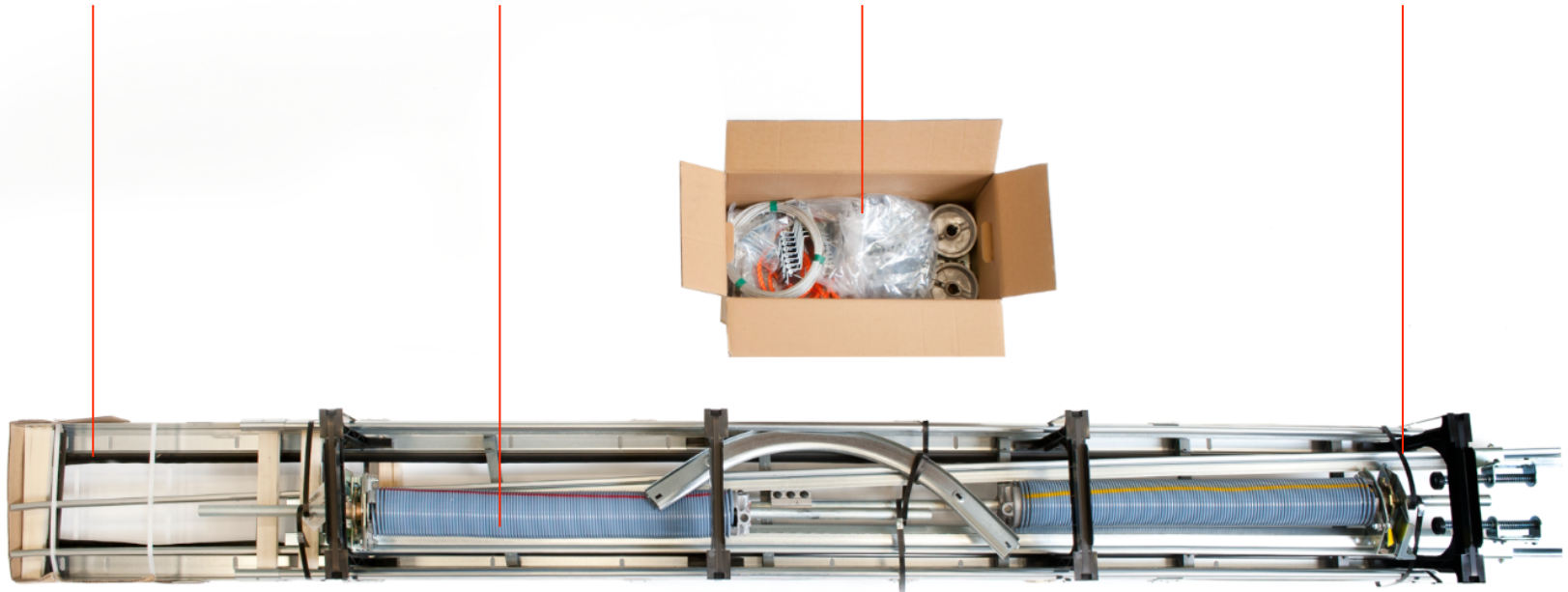
WHAT'S IN THE SET?

SIDE SEALS

SHAFT SYSTEM

HARDWARE BOX (BAG)

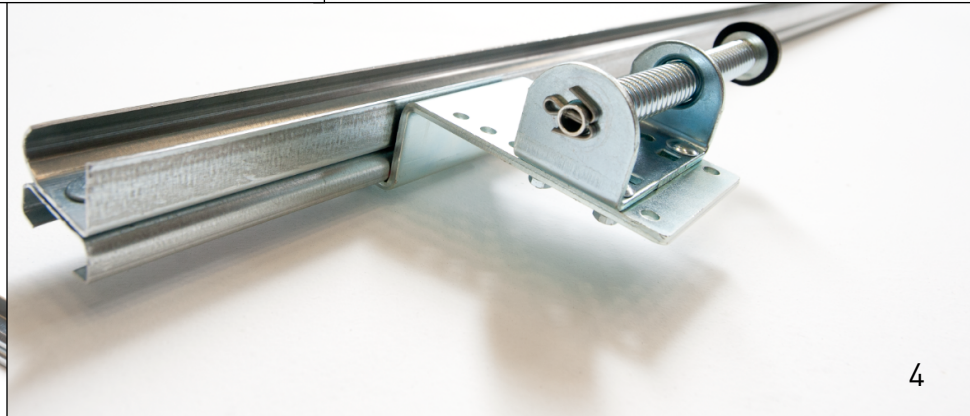
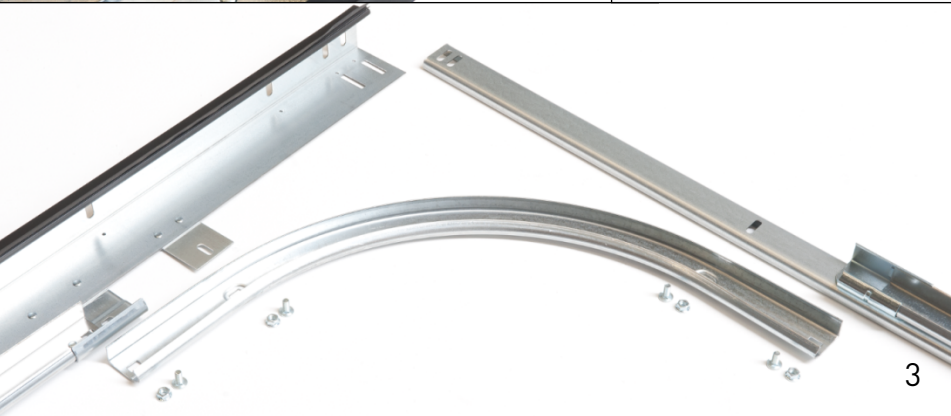
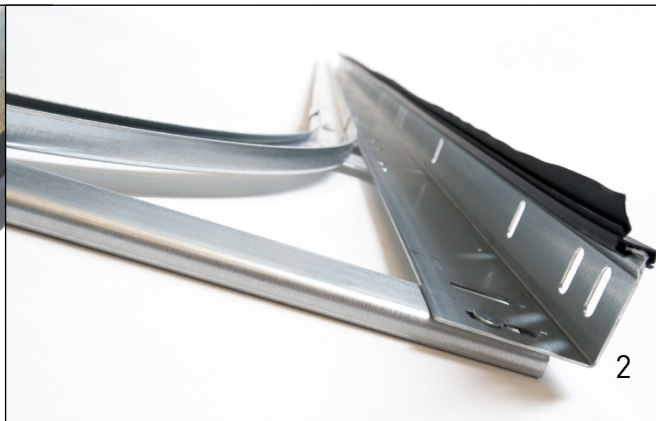
PROFESSIONAL TRACK SET



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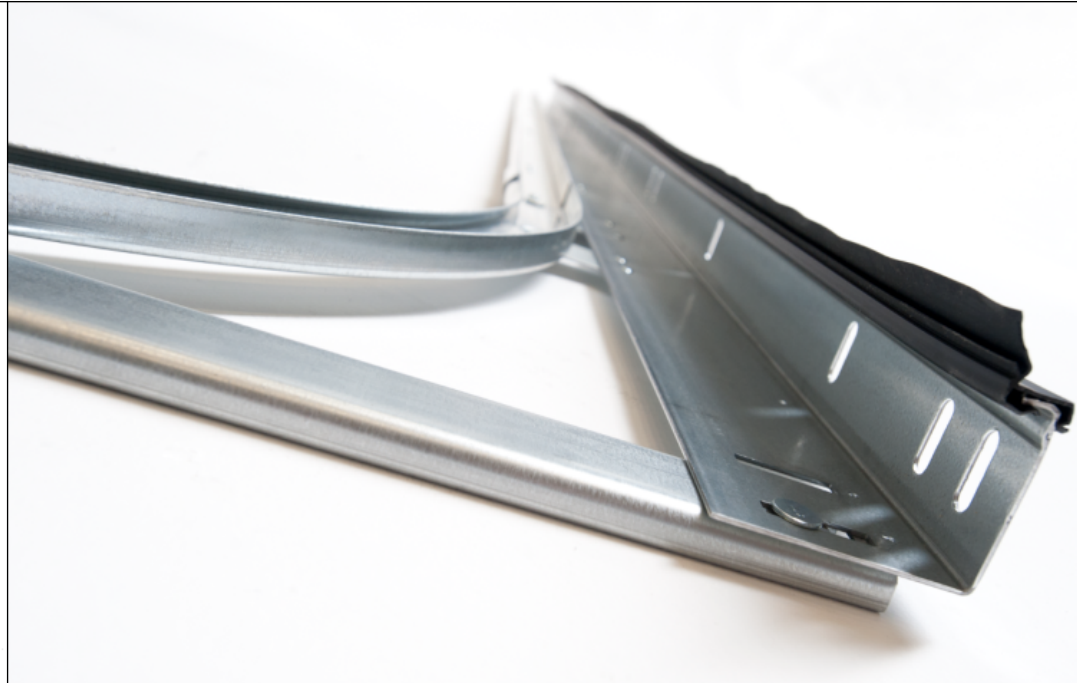
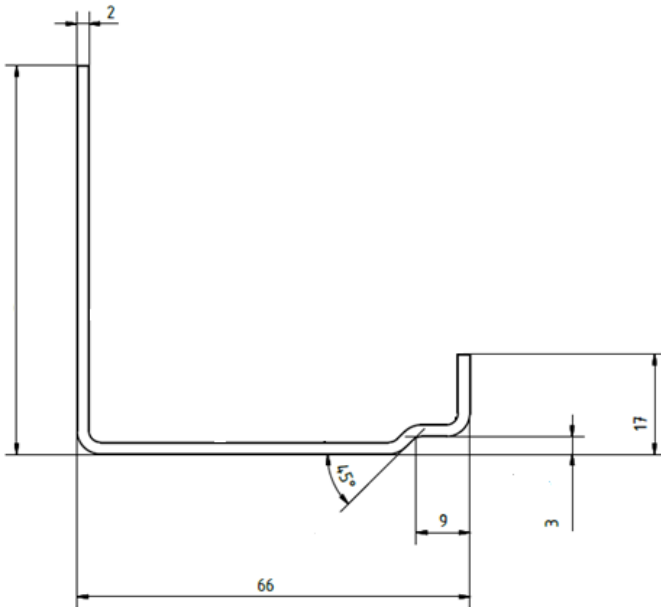
PROFESSIONAL TRACK SET

1. High quality rivet connections in the track sets.
2. Vertical track set featuring the new 9VL vertical angle, including locking holes.
3. Separate curve for easy installation and for reducing the size of the transport packaging.
4. Horizontal track set with a new C-profile for reinforcement. Easy connection mufflers to provide fool proof installation.
5. Spring bumpers are conveniently pre-installed on the horizontal track.



PROFESSIONAL TRACK SET

Advantages new shape vertical angle profile 9VL
Door leaf recessed > More tolerances for bending of door blade.
Wider doors without reinforcement strut.
Straight drilling into the wall only (not under an angle).
More mounting space.



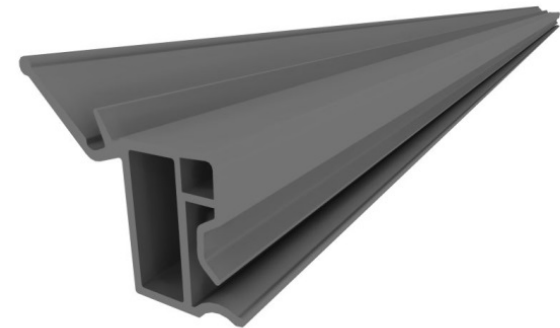
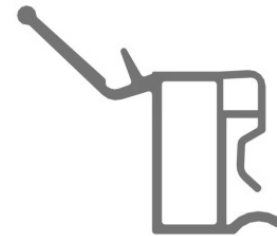
SIDE SEALS

A choice between two side seals, depending on the thermal values that you are aiming for.



1088I

Traditional standard seal

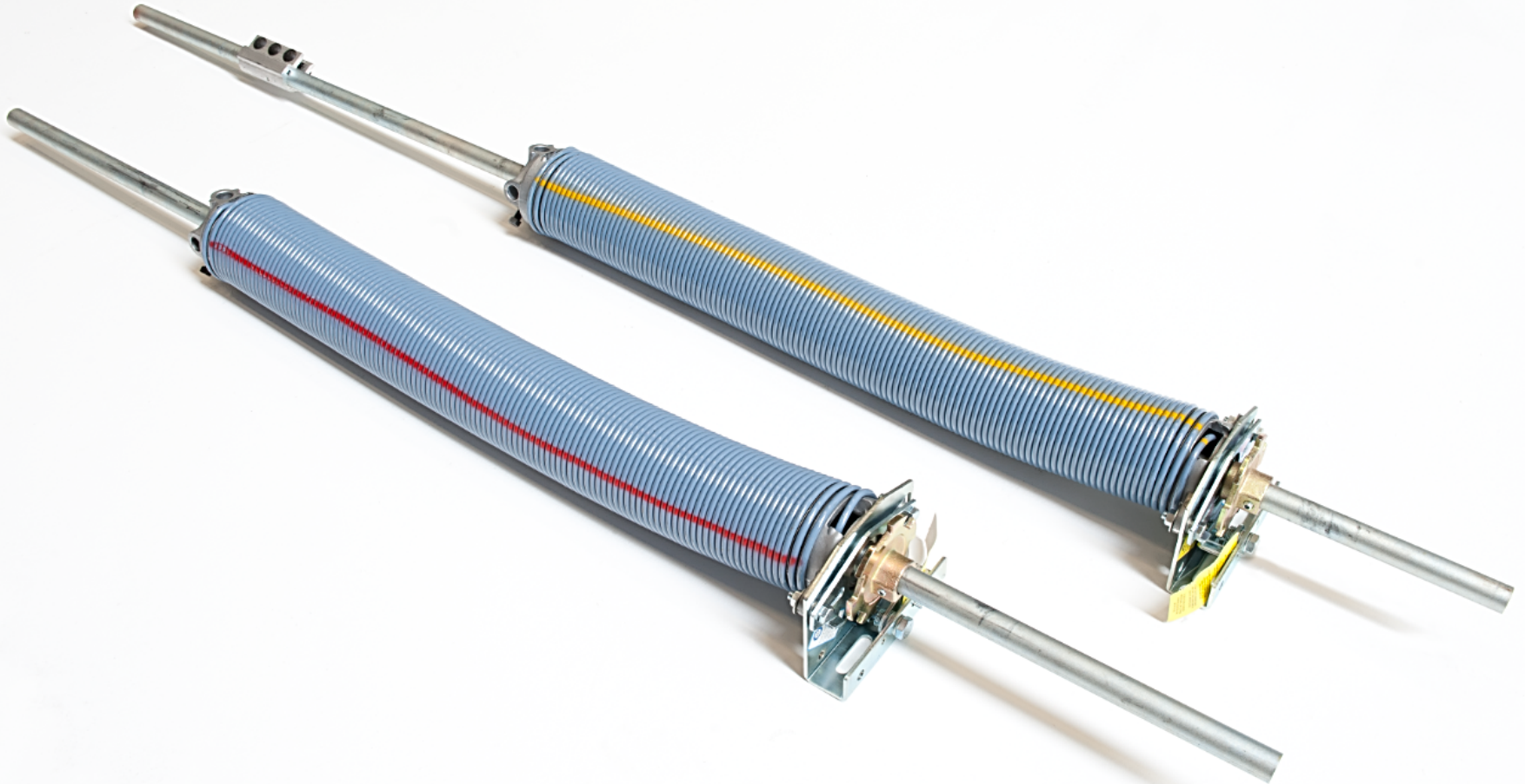


1088IT

Thermal chamber seal, providing 32% better U-values

SHAFT SYSTEM

A shaft, fully pre-assembled with powder-coated torsion springs, coupler, and spring break devices.

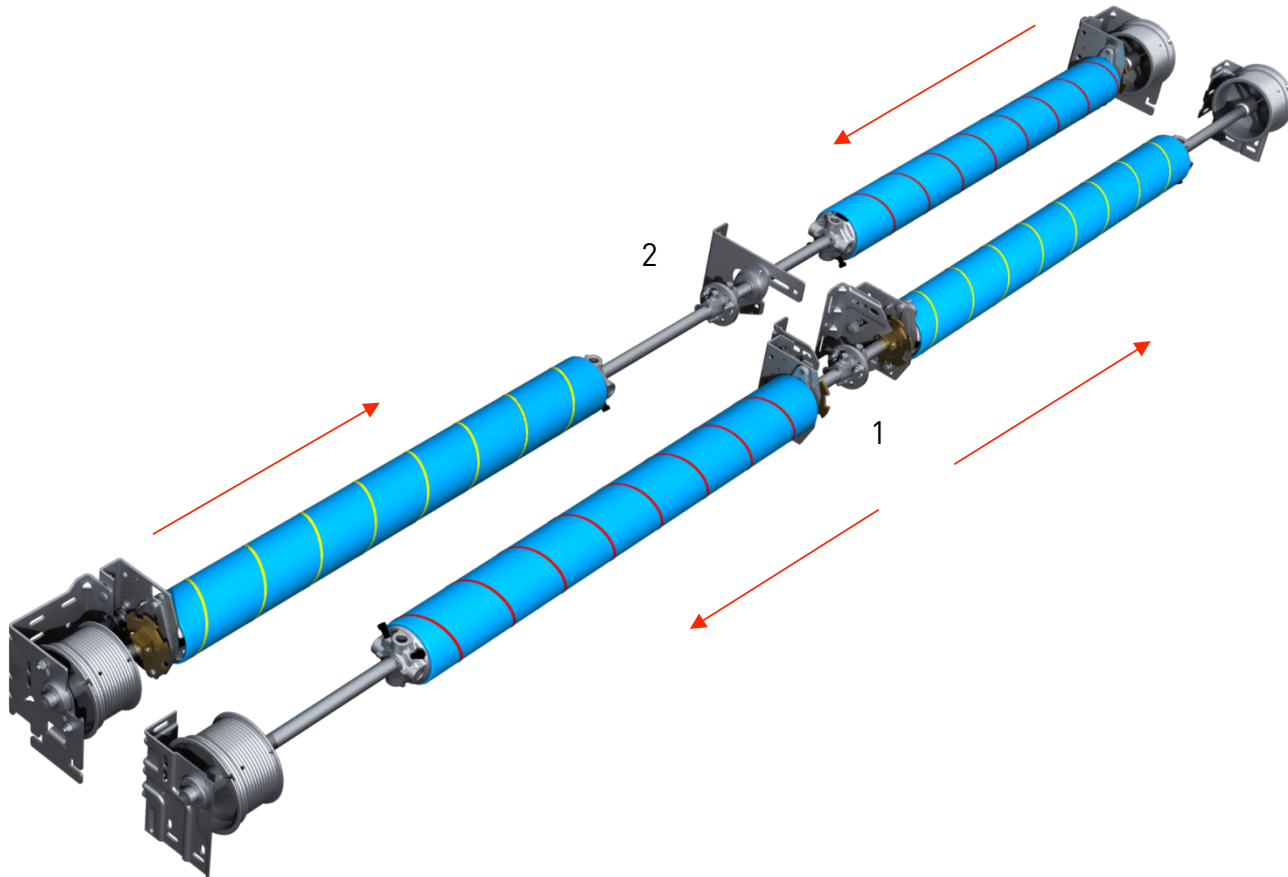


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SHAFT SYSTEM

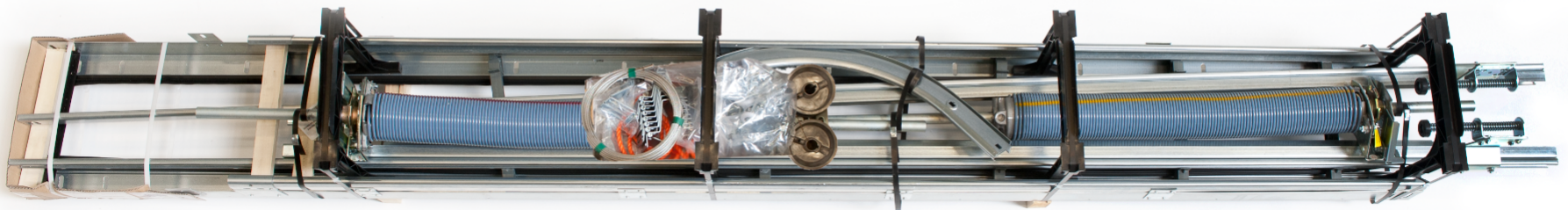
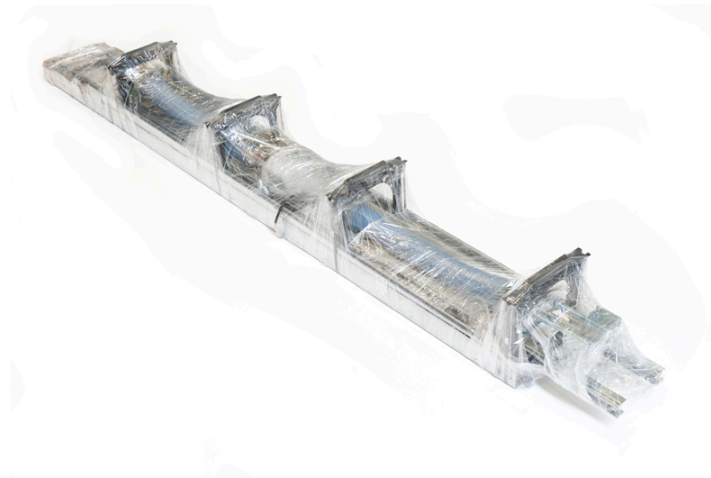
We offer two shaft configurations:

1. Mounting springs "inside-out": The torsion springs are fixed to the central bearing plates.
2. Mounting springs "outside-in": The springs are fixed to the side bearing plates. This is a new design. Installation is very easy through a new side bearing plate construction. Fixation of the plates to the building is in one line with the vertical angle.



HARDWARE BOX

All screws, hinges, top roller carriers, cable break devices, lifting cables, rollers, optional locks and grips and more are packed in one box or bag.



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PRINT-TO-ORDER MANUAL

The installation manual is generated by the software based on the selected hardware. This provides the installer with a dedicated guideline on installing the specific door.



LIFT SYSTEMS

ISC-NL

Normal Lift system

With a Normal Lift system, the door moves through the curve directly above the daylight opening (OPH, lintel). Depending on the opening height, a head room between 410mm and 510mm needs to be available. If there is more available head room, selection of a High Lift system (HL) is preferable. Less available head room requires to select a Low Head Room (LHR) system.

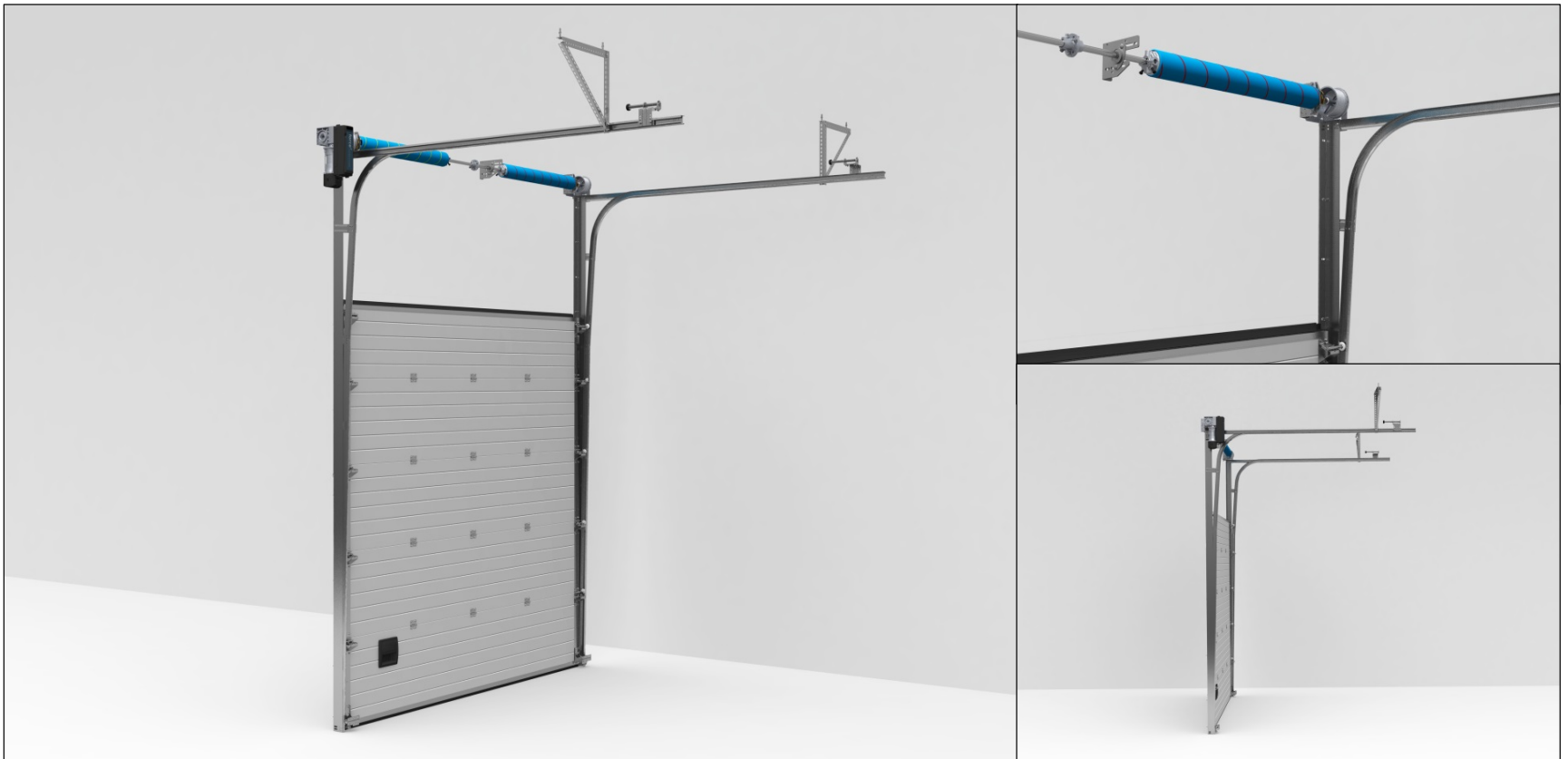


LIFT SYSTEMS

ISC-HL

High Lift system

With a High Lift system, the door rises vertically above the daylight opening height (lintel), after which the panel moves through the curve, higher in the building. The High Lift size is always the distance between the daylight opening height (lintel) and the underside of the horizontal tracks. Depending on the opening height and high lift size, an extra head room of 240mm to 360mm is required for positioning the shaft system with cable drums.

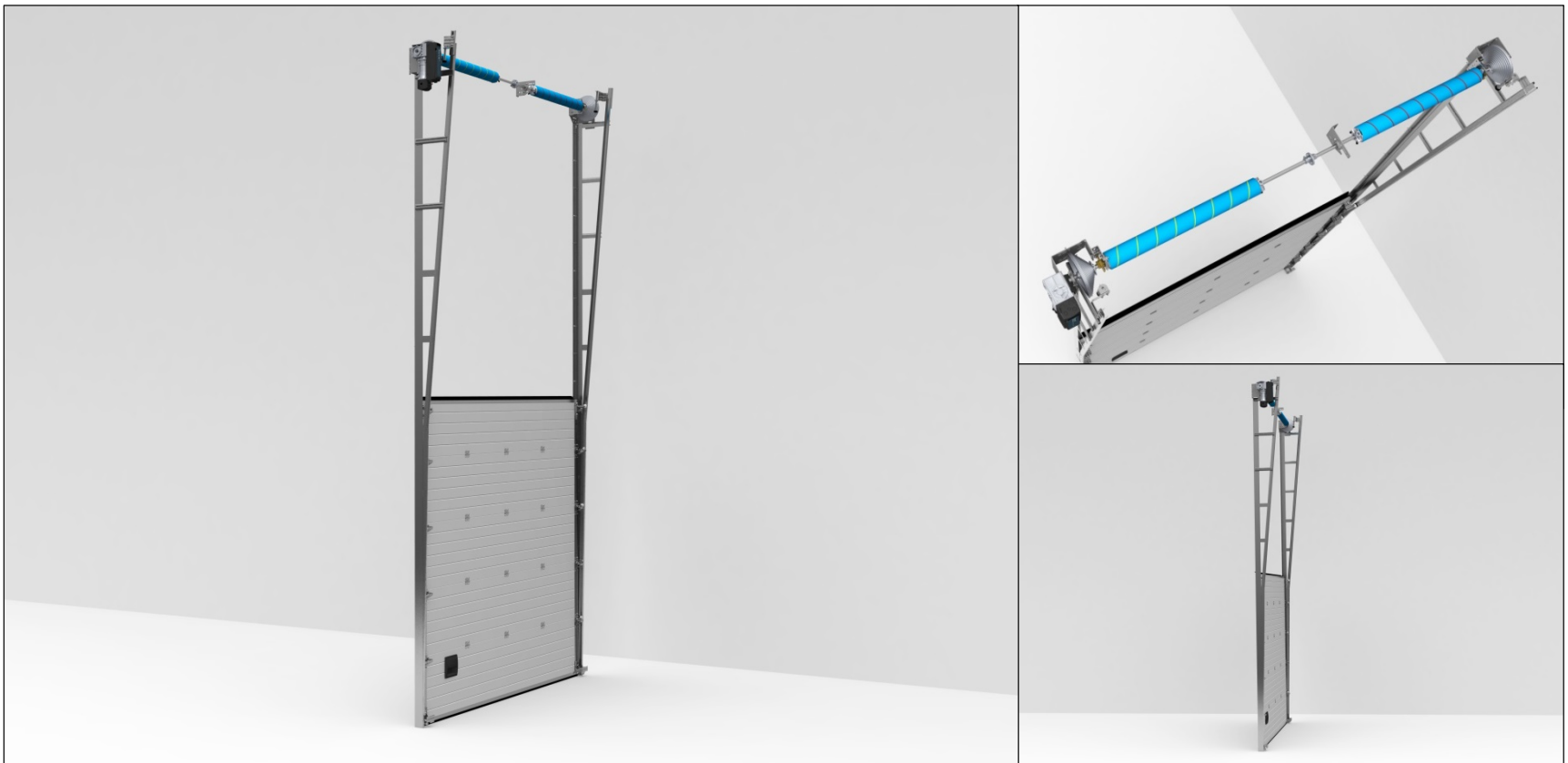


LIFT SYSTEMS

ISC-VL

Vertical Lift system

With a Vertical Lift system, the door moves straight upwards from the daylight opening height (OPH), implying that there is sufficient head room available for at least the total door height. The system has no curve. In Vertical Lift systems the full door weight hangs in the lifting cables, in any position of the door.



LIFT SYSTEMS

ISC-FTR

Follow The Roof system

With this Follow The Roof, Normal Lift system, the door moves into the bend directly above the daylight opening height (lintel) and from there the track follows the angle of the roof. FlexiForce offers this system in steps of 5° angle to a maximal angle of 40°.

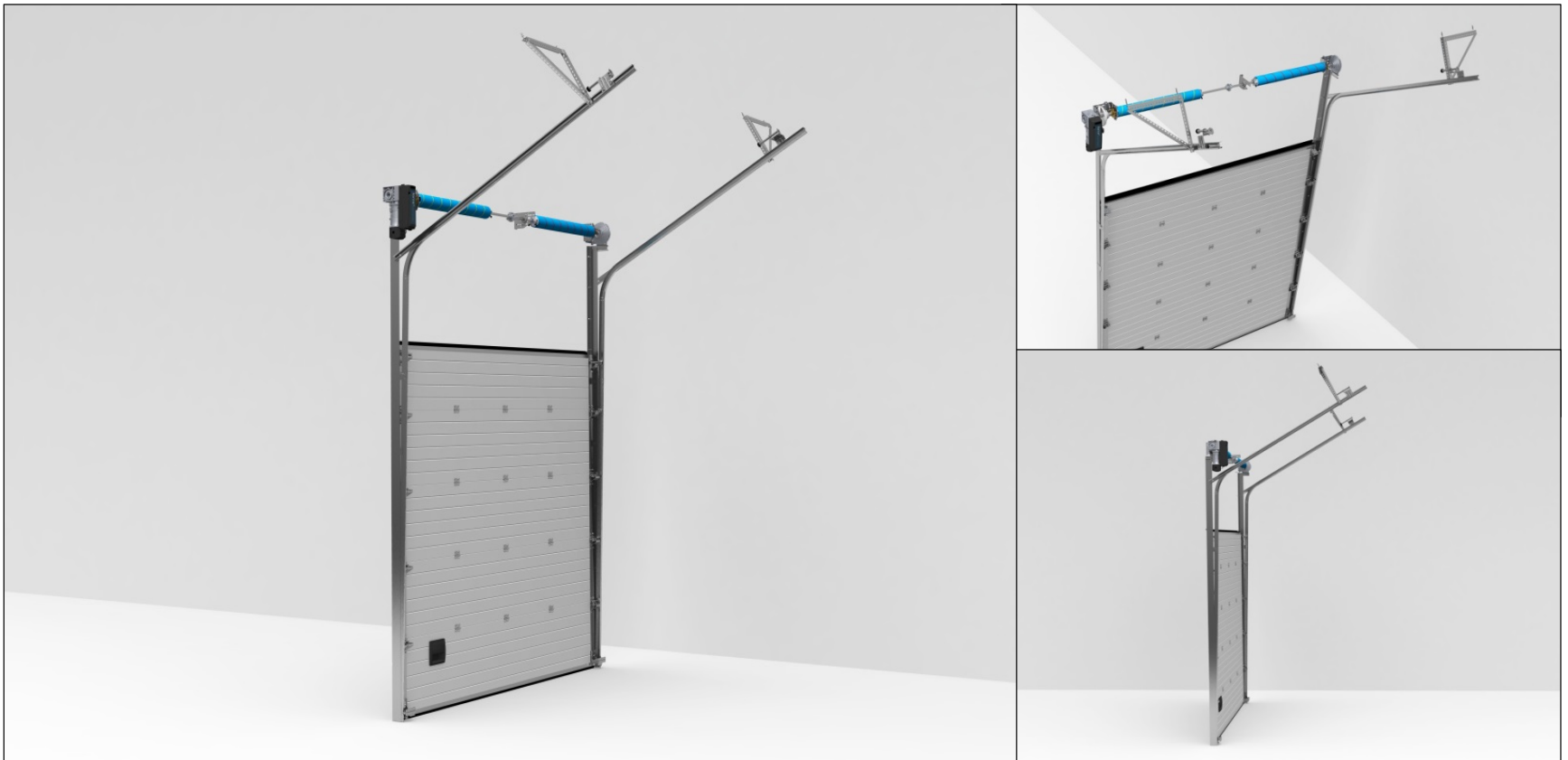


LIFT SYSTEMS

ISC-FHL

Follow The Roof - High Lift system

With the Follow The Roof High Lift system, the door first moves vertically above the daylight opening height (OPH), after which it turns in the bend. From there the track follows the angle of the roof. FlexiForce offers this system in steps of 5° angle to a maximal angle of 40°.



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MORE TO COME



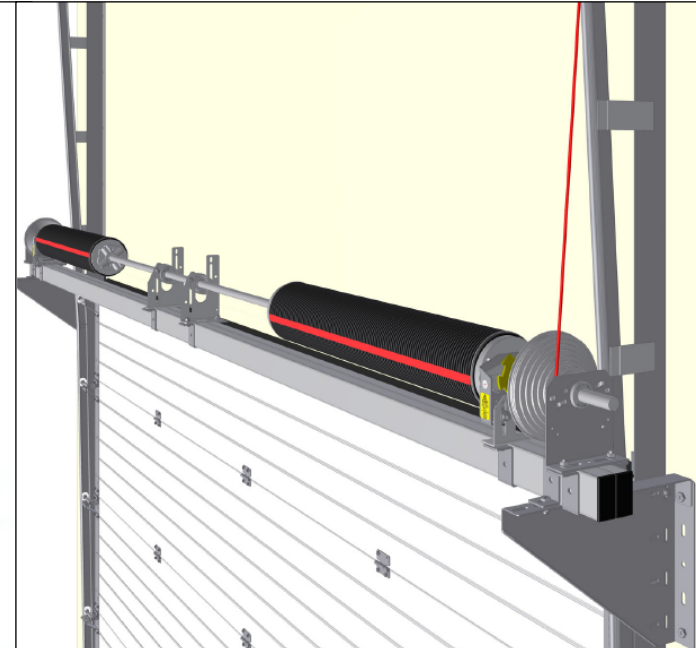
LOW HEAD ROOM

ISC-LHR and ISC-FLH. These two low head room sets will offer clear improvements compared to our current CE-LHR and FLH systems. Today, the existing systems remain available through the well-known order form process.



3" TRACK SYSTEMS

In NL, HL, VL, FTR and FHL. Harmonizing the design of ISC with the application of 3" tracks, rollers and brackets.



SPRINGS-ON-BEAMS

With products from our catalogue, you already can create VL or HL doors with the springs mounted in front of the door blade, on a box beam just above the lintel. But, we are working on integrating this set-up into our online ISC-CREATE software and into our production process.

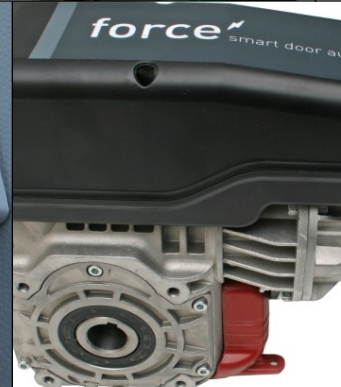
AUTOMATION

The CREATE ISC software offers a simple selection for door drive and e-accessories. Depending on the selection, this will be packed in the set or supplied to you separately. Find more details in our dedicated "PRICES AUTOMATION" booklet.



UP-SELLING OPTIONS

FlexiForce offers a wide range of hardware products for industrial doors. This enables you to personalize your hardware sets by selecting options. To make your door fit exactly to the demand of your customer. To up-sell higher value, or to take a more economical route. Here we present to you a selection of choices, options and accessories. Consider adding these to your hardware set.



UP-SELLING OPTIONS



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CE-ITTR

As you know, FlexiForce has been a pioneer in leading the market where it comes to providing Initial Type Testing Reports and CE-approvals for complete door systems that use our hardware and operators. ISC is no exception to our strategy. We have made sure that all our ISC systems are type tested, documented and approved for application in safe industrial doors. Your sales team has all the details for you.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CEAT ◆ CERTIFICADO ◆ CERTIFICAT

**Certificate of a
Conformity-Examination**


Industrie Service

Certificate No.: TorFV 4048/1

Approved testing institution: TÜV SÜD Industrie Service GmbH
Testing institution for the building product (system 3):
EN 12241-1:2003 Industrial, commercial and garage
doors and gates – Product standard – Part 1: Products
without fire resistance or smoke control characteristics
Westendstrasse 159
80686 München – Germany

**Applicant /
Holder of certificate:** FlexiForce Group B.V.
Hanzweg 25
3771NG Barneveld – The Netherlands

Manufacturer: FlexiForce Group B.V.
Hanzweg 25
3771NG Barneveld – The Netherlands

Testing Laboratory: TÜV SÜD Industrie Service GmbH
Prüflaboratorium für Produkte der Fördertechnik
Prüfbereich Maschinen der Fördertechnik
Gottlieb-Daimler-Strasse 7
70794 Filderstadt – Germany

**Date and number of test
report:** 2016-01-01
TorFV 4048-6/100

Testing standards: EN 12604:2000 Industrial, commercial and
doors and gates – Mechanical aspects –
EN 12605:2000 Industrial, commercial and
doors and gates – Mechanical aspects

Result: The anti drop device meets the requirements
testing standards for the scope of application
in the above mentioned test report (Nr. 24015
1984-11-23)

Reference: This certificate remains valid as long as the anti drop
device is manufactured like it was tested and the
requirements of the testing standards for anti drop
devices remain unchanged.

Revision: 1

Date of translation: 2014-07-09

Testing institution – Identification number: 0020

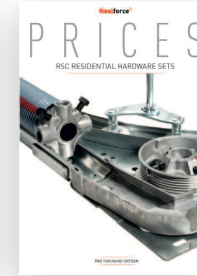
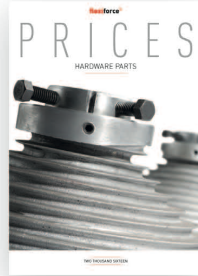

Thoralf Mühler



TUV[®]

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