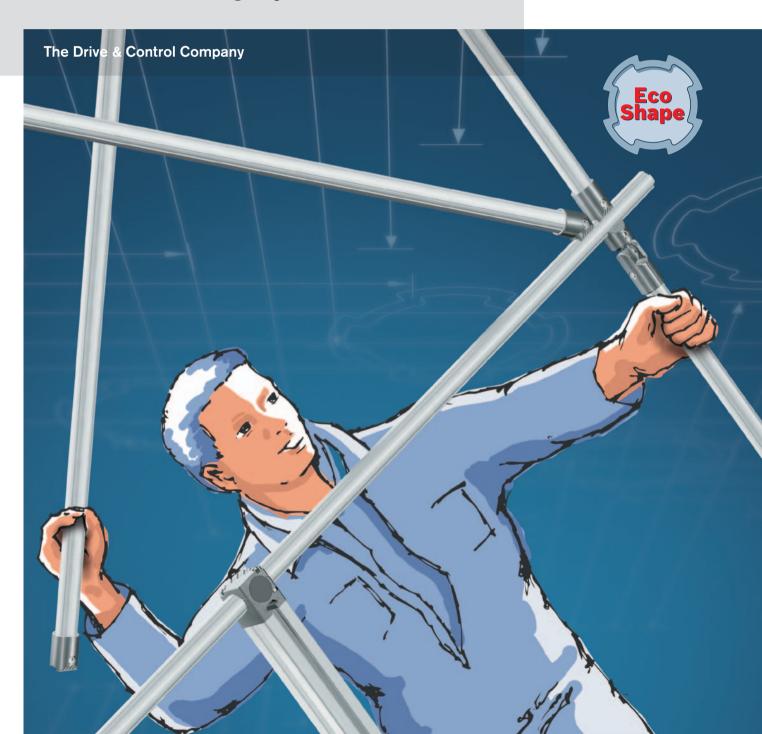
EcoShape The Next Dimension in Tubular Framing Systems

Version 1.1



EcoShape Easy³ – Versatile, efficient, simple

professionals can find out more at: www.ecoshape-rexroth.com

Individual solutions for numerous applications



Easy³ – Versatile, efficient, simple This is the EcoShape idea.

Its user-friendly design and its elegant look appeal to a broad range of tastes.

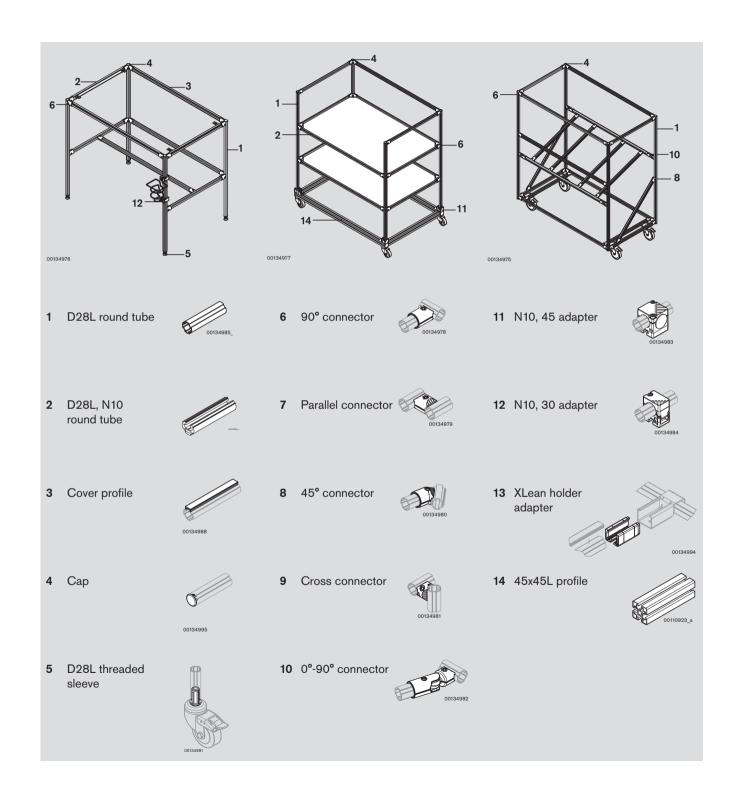
With just a few components and a minimum investment in time and costs, your existing production equipment can be optimized or extended.

EcoShape easily adapts to your specific requirements. You can create the precise solutions you need – and increase productivity.

It's the ideal combination of efficiency and lean management. Sometimes less is simply more! 3 842 541 818 (2010.02) | **EcoShape 1.1**

Tubular Framing System

Fast, accurate planning with MTpro



EcoShape Shape your future with Rexroth's new tubular framing system

Convenient planning - instant, easy implementation



Unmatched versatility

EcoShape is unmatched in its versatility: It makes an almost unlimited number of designs possible with just a few components. The only tubular framing system of its kind, it is T-slot enabled and fully compatible with the profiles in Rexroth's Modular Aluminum Framing System and Manual Production Systems. So you have even more freedom to design professional, custom workstations, material shuttles, and flow racks to meet your needs, as well as many other applications.

- Unique flexibility and versatility for the widest variety of combinations
- Create versatile and uniform applications
- Professionally extend and optimize existing production lines



Strikingly simple

It's child's play to create new solutions or expand existing ones with EcoShape: Intelligent connector technology easily accommodates small tolerance differences to make it easier to cut the round tubes directly on site. As a result, you can improve your production continuously with minimal additional effort, adapting quickly to changing requirements in accordance with the kaizen principle.

- Create the perfect configuration in no time at all with MTpro planning software
- Implement practical applications almost anywhere in record time with only 14 standard components
- Easy to cut, assemble, and handle
- Quickly create reliable and stable connections
- Set up new applications simply, or optimize and expand existing ones with surprisingly little effort



Top efficiency

EcoShape combines unbeatable flexibility with consistent efficiency.

- Implement designs more efficiently using our special MTpro planning software (with 2-D and 3-D display and a parts list generator)
- Configure and assemble directly onsite – saves time and avoids errors (poka yoke)
- Achieve higher stability thanks to optimized profile and connector geometries – with an approximate reduction in weight of over 30% compared to similar steel tube systems
- Create perfect, multi-system combinations with aluminum profiles and Manual Production Systems from Rexroth
- Reduce energy consumption and protect the environment: elements can be reused or recycled
- Ensure safe conductivity of all components thanks to a complete ESD version









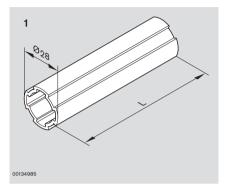


Use the MT*pro* software to create optimum designs in 2-D or 3-D and perfectly forecast your material requirements with the parts list generator.

EcoShape: D28L round tube and accessories

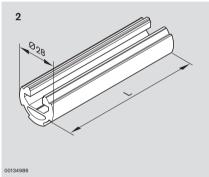






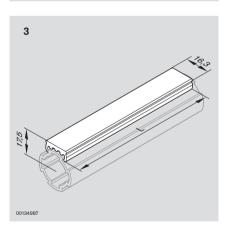
D28L rour	nd tube	
	LE	No.
	50	3 842 541 211
		L = 5600 mm
	LE	No.
	1	3 842 996 191 /
		50 mm < L < 5600 mm

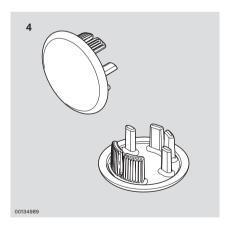
1.8 cm² 1.33 cm⁴ 1.33 cm⁴ 0.95 cm³ 0.95 cm³ 0.48 kg/m

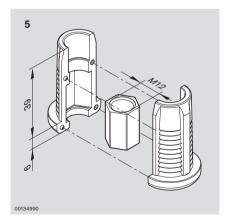


D28L, N10 round tube		
LE No.		
	20	3 842 541 213
L = 5600 mm		
	LE	No.
	1	3 842 996 192 /
		50 mm ≤ L ≤ 5600 mm

2.63 cm² 1.17 cm⁴ 1.97 cm⁴ 0.84 cm³ 1.41 cm³ 0.71 kg/m







Silue raii		
	LE	No.
	10	3 842 541 196
		I = 2000 mm

Сар No. 20 3 842 541 195 Material: PA 66, black

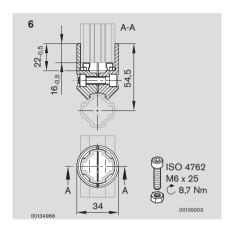
D28L threaded sleeve

卤		No.	
20		3 842 541	185
Material: PA 66,	black		

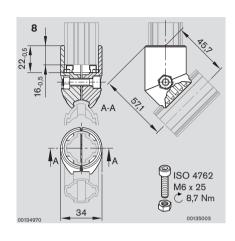
Material: PVC, gray

EcoShape: round tube connector





7	A-A	5
A 00134969	56	ISO 4762 M6 x 25 8,7 Nm



90° connector

尚	No.
20	3 842 541 173

Incl. mounting material Material: diecast zinc

Parallel	connecto

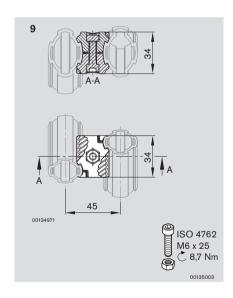
Ö	No.
20	3 842 541 183

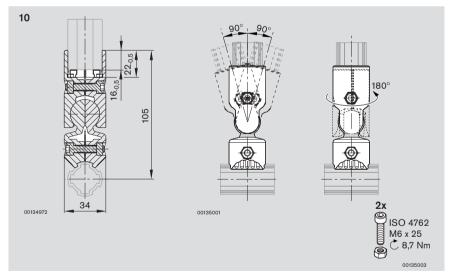
Incl. mounting material Material: diecast zinc

45° connector

. •	00111100101	
	Ö	No.
	20	3 842 541 175

Incl. mounting material Material: diecast zinc





Cross connector

	No.	
20	3 842 541 181	

Incl. mounting material Material: diecast zinc

0°-90° connector

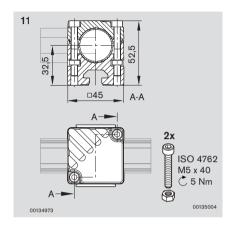
Ü	No.
20	3 842 541 178

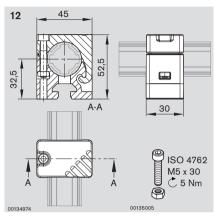
Incl. mounting material Material: diecast zinc

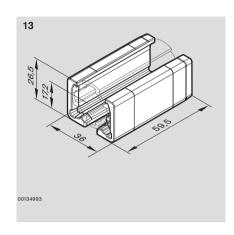
EcoShape: round tube adapter











N10, 45 adapter

,	鸴	No.
	20	3 842 541 187

Incl. mounting material
Material: diecast aluminum

N10, 30 adapter

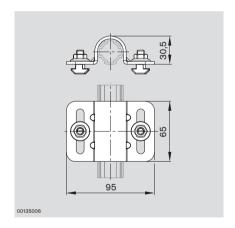
Ö	No.
20	3 842 541 190

Incl. mounting material Material: diecast zinc

XLean holder adapter

الله	No.
20	3 842 541 296

Material: PA 66, black



D28L/N10 tube clip

Ö	No.
20	3 842 541 193

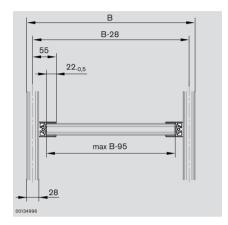
Incl. mounting material

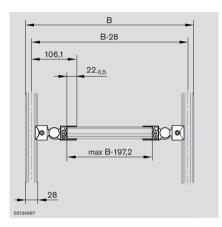
3842541818 (2010.02) | **EcoShape 1.1**

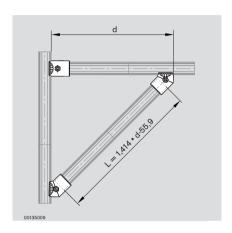
Tubular Framing System

Technical data

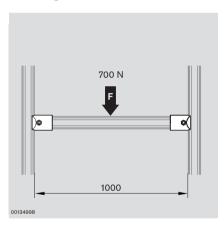
Length calculation

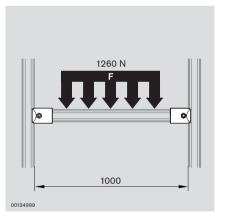






Bearing loads and surface loads





Modular product system for flow rack construction

Product designation

Rail holder without stop

Mount

D28 tube clip

These two pages contain a small selection of products from our Manual Production Systems (MPS) and Basic Mechanical Elements (MGE) ranges that can be used in conjunction with our new EcoShape tubular framing system.

Use the info fax on the last page to order a catalog or visit us on the Internet at www.boschrexroth.com/dcl.

Tubular Framing System

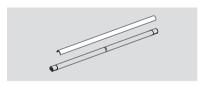


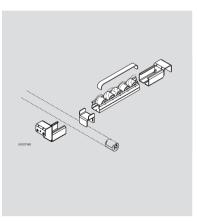




Product designation	Length (mm)	Order no.	Page
D28L round tube	L = 5600	3 842 541 211	6
D28L round tube	$50 \leq L \leq 5600$	3 842 996 191/	6
D28L, N10 round tube	L = 5600	3 842 541 213	6
D28L, N10 round tube	50 ≤ L ≤ 5600	3 842 996 192/	6
Cover profile		3 842 541 196	6
Сар		3 842 541 195	6
D28L threaded sleeve		3 842 541 185	6
90° connector		3 842 541 173	7
Parallel connector		3 842 541 183	7
45° connector		3 842 541 175	7
Cross connector		3 842 541 181	7
0°-90° connector		3 842 541 178	7
N10, 45 adapter		3 842 541 187	8
N10, 30 adapter		3 842 541 190	8
XLean holder adapter		3 842 541 296	8

Manual Production Systems 3.0





			9-
Lettering clip for tubular cross tie	L = 2000	3 842 535 136	3-45
Lettering clip for tubular cross tie	L = 102	3 842 538 093	3-45
D28 round tube	30 ≤ L ≤ 6000	3 842 993 317/	3-40
D28 round tube	L = 6070	3 842 535 118	3-40
D28 roller section	$100 \le L \le 4500$	3 842 993 321/	3-47
D28, ESD roller section	100 ≤ L ≤ 4500	3 842 993 431/	3-47
D28 roller section	L = 4500	3 842 537 776	3-47
D28, ESD roller section	L = 4500	3 842 537 778	3-47
D28SK roller section	100 ≤ L ≤ 4500	3 842 993 322/	3-47
D28SK, ESD roller section	100 ≤ L ≤ 4500	3 842 993 432/	3-47
D28SK roller section	L = 4500	3 842 537 777	3-47
D28SK, ESD roller section	L = 4500	3 842 537 779	3-47
Brake		3 842 532 871	3-47
Rail holder with stop		3 842 538 372	3-47

Length (mm)

Order no.

3 842 537 687

3 842 537 657

3 842 535 364

Page

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3-57

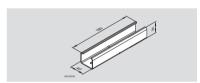


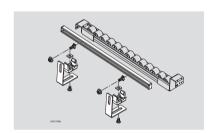




Manual Production Systems 3.0

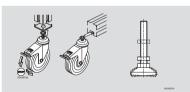




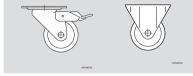


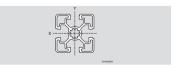
Product designation	Length (mm)	Order no.	Page
- · · · · · · · · · · · · · · · · · · ·			3 -
Polymer profile	$30 \le L \le 3000$	3 842 993 615/	3-42
Polymer profile, ESD	30 ≤ L ≤ 3000	3 842 993 617/	3-42
Polymer profile	L = 3000	3 842 538 108	3-42
Polymer profile, ESD	L = 3000	3 842 538 107	3-42
Rail holder with stop		3 842 538 051	3-42
Rail holder without stop		3 842 538 050	3-42
XLean mount		3 842 538 102	3-42
M6, P60 - P 30 bracket set		3 842 537 862	2-26
Section link		3 842 536 722	3-48
Bridge		3 842 536 724	3-48
Flexible bridge		3 842 537 911	3-48
Adapter, ESD		3 842 537 022	3-49
Mounting bracket		3 842 535 125	3-49
Profile 15x22.5	30 ≤ L ≤ 3000	3 842 992 473/	3-49
Profile 15x22.5	L = 2000	3 842 513 576	3-49
Cap, ESD		3 842 537 594	3-49

Basic Mechanical Elements 12.0









Product designation	Length (mm)	Order no.	Page
Caster wheel with lock		3 842 541 226	6-13
Caster wheel		3 842 541 234	6-13
Leveling foot		3 842 529 025	6-4
Leveling foot		3 842 352 061	6-4

Roller	3 842 259 790	6-18
Roller	3 842 259 792	6-18

45x45L profile **3 842 992 425/...** 2-35

MTpro planning software

MT*pro* is a software used for planning assembly systems that assists you from selection to configuration and ordering of the Rexroth products.

The DVD includes:

Layout Designer for planning and designing complete frames and conveyor systems without a CAD system

- Simple design using the drag & drop and snap functions without a CAD system
- Design rules to support users in the creation of complete systems
- User library to save and reuse your own modules and layouts
- Export of 3-D volume models into all common CAD systems
- Automatic order list generation of all small parts and accessories

Product information for the following product lines:

- MGE Basic Mechanical Elements
- MPS Manual Production Systems
- MIT Material and Information Flow Technology

Product configuration and calculation of order lists

Generation of CAD models with direct interfaces to all common CAD systems

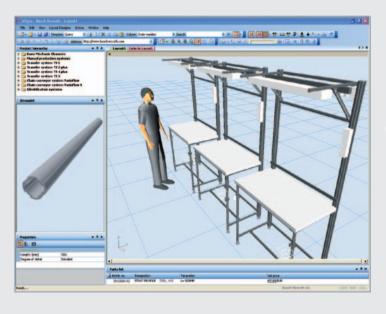
- Export of configured models into the most popular file formats
- Multifunctional drivers allow you to insert the configured CAD models with parts list information directly in your current drawing
- Edit the properties of CAD models you have already configured and inserted in your CAD drawing in supported CAD systems

- Multilingual content and graphical user interface in 5 different languages (de/en/fr/es/it)
- MTpro runs directly from DVD-ROM without installation
- Update your installation of MTpro online with the automatic update system

System requirements:

- Windows 2000, Windows XP, Windows Vista
- Adobe Reader 6.0 and newer
- 2.5 GB of hard disk space needed for installation

The DVD-ROM MT*pro* 2.0 can be ordered free of charge with the part number 3 842 539 057 from your local Rexroth sales partner.





Info fax: +49 711 811-30364 Bosch Rexroth AG

Linear Motion and Assembly Technologies

Please send me/us, without any obligation, more information about:

- ☐ Ball Rail Systems
- ☐ Roller Rail Systems
- ☐ Linear Bushings and Shafts
- ☐ Ball Screw Drives
- ☐ Linear Motion Systems
- ☐ Basic Mechanical Elements
- \square Manual Production Systems
- ☐ Transfer Systems

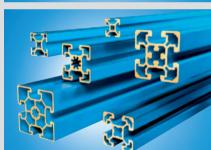


















Sender

www.boschrexroth.com/dcl



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Find your local contact person here: www.boschrexroth.com/addresses-dcl