We design and produce in order to support you

An international group for technology, a local support for service

Over 40 years of know how in design and production

Values

Applications

ROBOTICS

INDUSTRIAL MACHINERY

LOGISTICS

RAILWAY
High level technical consulting
Cross competences in several industrial sectors for an effective problem-solving

From a full range of standard products to fit-to-customer solutions for best performances

Collaboration

Solutions

INTERIORS AND ARCHITECTURE
MEDICAL
SPECIAL VEHICLES
AERONAUTICS
A complete range for linear motion which reaches every customer

Linear Line

Linear and curved guides with ball and roller bearings, with hardened raceways, high load capacities, self-alignment and capable of working in dirty environments.

Telescopic Line

Telescopic guides with ball bearings, with hardened raceways, high load capacities, and low bending, resistant to shocks and vibrations. For partial, total or extended extraction up to 200% of the length of the guide.
Actuator System Line

Integrated actuators for industrial automation, they find applications in numerous industrial sectors: from machinery servo systems to high precision assembly systems, packaging lines and high speed production lines. It has evolved from Actuator Line series in order to meet the most demanding needs of our customers.

Actuator Line

Linear actuators with different guide configurations and drives, available with belt, screw or rack and pinion drives according to different needs in terms of precision and speed. Guides with bearings or ball recirculating systems for different load capacities and critical environments.

A global provider of solutions for applications for linear motion
1 Introduction
- The product, Features and user benefits SR-2
- Application fields SR-3
- Dimensions, Rollers and roller assemblies SR-4
- Measurement units SR-5

2 Speedy Rail 35
- "Speedy Rail 35" guide and specification SR-6
- "Speedy Rail 35" assemblies and components SR-7
- Sliding doors "Speedy Rail 35" application example SR-9

3 Speedy Rail C 48
- "Speedy Rail C 48" guide and specification SR-10
- "Speedy Rail C 48" assemblies and components SR-11
- Rollers and roller boxes for "Speedy Rail C 48" guide SR-12
- Roller boxes for "Speedy Rail C 48" guide SR-13

4 Speedy Rail 60
- "Speedy Rail Mini" guide and specification SR-14
- "Speedy Rail Mini" roller assemblies and components SR-15
- "Speedy Rail Mini" guide and components SR-16
- Dovetail clamps and fishplates SR-17
- Roller assembly and "V" rollers "Light" SR-18
- Roller assemblies and "V" rollers SR-19

5 Speedy Rail 90
- "Middle Speedy Rail" guide and specifications SR-21
- "Middle Speedy Rail" assemblies and components SR-22
- "Middle Speedy Rail" guide and components SR-23
- Dovetail clamps and fishplates SR-24
- Plastic compound shell "V" rollers SR-25
- Roller assembly with "V" shaped rollers SR-26

6 Speedy Rail 120
- "Standard Speedy Rail" guide and specifications SR-27
- "Standard Speedy Rail" assemblies and components SR-28
- "Standard Speedy Rail" guide and specifications SR-29
- Components for speedy rail SR120 guide SR-30
- Standard dovetail clamps SR-31
- Racks components for rigid mounting SR-32
- Standard fixing fishplates SR-33
- Plastic compound shell "V" rollers SR-34
- Roller assembly with "V" rollers SR-35
- Plastic compound shell rollers SR-36
- 2 Rollers light full-block assembly SR-38
- Compact roller assembly with plastic compound rollers SR-39
- Full-block roller assembly SR-40
- Roller assembly with 4 rollers SR-41
- Narrow/wide base blindo beam roller assembly SR-42
- 8 Rollers blindo beam roller assembly SR-43
- Light 4 rollers floating assembly for Speedy Rail guides SR-44
- Floating roller assembly with 4 rollers - short/long pivot SR-45
- 5 Rollers assembly, one fixed, one self adjusting SR-46
- Floating roller assembly with 6 rollers - short/long pivot SR-47
- Floating roller assembly with 8 rollers - short/long pivot SR-49
Assembling diagram for rigid mounted rack SR-50
Standard racks SR-51
Standard scrapers SR-52

7 Speedy Rail 180
- Wide body multi groove speedy rail guide and specifications SR-53
- Roller assemblies and components SR-54
- Wide body multi groove speedy rail guide and specifications SR-55
- Components for wide body multi groove Speedy Rail guide SR-56
- Roller assembly with "V" shaped rollers SR-57
- Roller assembly with 4 rollers SR-58
- 8 Rollers floating assembly - complete pairing SR-59
- Backing plate for floating roller assemblies SR-60

8 Speedy Rail 250
- Super wide body multi groove speedy rail guide and specifications SR-61
- Roller assemblies and components SR-62
- Superwide body multi groove speedy rail guide and specifications SR-63
- Components for super wide body speedy rail guide SR-64
- Roller assembly with "V" shaped rollers SR-65

9 Technical detail
- Mechanical and technological components specifications SR-66
- Treatments on all light alloy components, Rollers, Roller assemblies SR-67
- Rollers adjustments, Torque settings, Scrapers, Drive head SR-68
- Lubrication, Life testing SR-69
- Summary table Speedy Rail guides SR-70
- Loads on a 4 'V' rollers trolley SR-71
- Loads on twin 4 'V' rollers trolleys SR-75
- Loads on a 4 'V' rollers vertical trolley SR-76
- Cylindrical roller loads SR-77
- User suggestions SR-79

10 Applications SR-82

11 General index SR-87
The product:

Speedy Rail® beam is a heat-treated aluminium alloy profile with hollow cross-sections which makes it very strong under torsion and deflection stresses. Beams are then subject to a special patented treatment which provides a smooth, hard (700 HV) surface comparable to tempered steel. The fusion point of the non-stick surface layer (2100°C) permits an excellent resistance to welding splatters.

For these reasons the Speedy Rail® beams and components are widely used in the automotive industry to build transfer systems (lift & carry) for automated welding lines.

Features and user benefits:

- Wide range of linear transport applications
- Standard modular components
- All parts reusable
- Minimum space required
- Narrow profile
- Hard surface
- Resistance to welding splatters
- Quiet smooth operations
- Resistance to high corrosion
- Easy to assemble
- Saving in assembly time
- Strong, lightweight
- Savings in reducing drive size
- Only hand tools required to assemble or modify

Many quantities of car bodies during the welding operations are moved by Speedy Rail® linear systems.

One of the most successfully feature of Rollon lines is that it is practically "maintenance free".

Speedy Rail® linear motion systems are lightweight, self-supporting, easy to assemble, inexpensive, modular, clean, quiet and ex stock. Speedy Rail® assemblies are very simple. Standard bolted dovetails and fishplate clamps are used for end to end joining. Rails are available in single beam up to max length 7.5 meters – 24.6 feet – and can be joined end-to-end with dovetails to build a transfer system of unlimited length. Rails have a dovetail groove on each side to accommodate any fixture. In this way it is not necessary to drill or to weld.

The profiles Wide Body SR 180, Super Wide Body SR 250 are equipped with grooves and have a planarity precision so that guideways can be fixed without any mechanical machining.
Application fields:

- Automotive assembly
- Woodworking and furniture
- Glass processing
- Tire industry
- Painting lines
- Food industry
- Sheet working and laser cut machines
- Plastic extrusion, machine tools
- Appliances assembly and production
- Electronics
- Print, slitter machines
- Cardboard handling machines
- Industrial cleaning
- Packaging
- Tiles, shingles production
- Sportive equipment
- Welding lines
- Overhead transfers and panels handling
- Overhead pick-up and transfer, packaging
- Line of 6/10 stations for tire production
- Multi axis for paint-gun movement
- Cartesian water cutting systems, packaging
- Feeding and scavenging systems
- Rails for protections, tool change system
- Frame and body welding
- Card transfer and dip-in chemical solution tray
- Palletizing, print head replacement
- Palletizers
- Overhead lines with pick-up and transfer
- Palletizers, shrink-wrap machines
- Production transfers
- Guides for target in the shooting, linear sliding for athletic equipment
- Textiles, pharmaceuticals, steel coil processing, etc.
- And more
1 Introduction

## Dimensions

![Dimensions Diagram](image)

### Speedy Rail® guides are available in the following sizes:

<table>
<thead>
<tr>
<th>Type</th>
<th>h [mm]</th>
<th>w [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speedy Rail 35</td>
<td>35</td>
<td>14</td>
</tr>
<tr>
<td>Speedy Rail C 48</td>
<td>48</td>
<td>28</td>
</tr>
<tr>
<td>Speedy Rail Mini</td>
<td>60</td>
<td>20</td>
</tr>
<tr>
<td>Speedy Rail Middle</td>
<td>90</td>
<td>30</td>
</tr>
<tr>
<td>Speedy Rail Standard</td>
<td>120</td>
<td>40</td>
</tr>
<tr>
<td>Speedy Rail Wide Body</td>
<td>180</td>
<td>60</td>
</tr>
<tr>
<td>Speedy Rail Super Wide Body</td>
<td>250</td>
<td>80</td>
</tr>
</tbody>
</table>

### Rollers and roller assemblies:

The Speedy Rail® range includes a large selection of rollers both cylindrical and “V” shaped and roller assemblies with two or more rollers. Our rollers are covered by a sintered plastic compound, resistant to pollutants and virtually maintenance-free. Ball and/or needle bearings with high performance are mounted into the rollers and can be maintained either with standard greasing procedure or lifetime lubricated. All roller boxes are equipped with concentric and eccentric pins for a quick adjustment of the contact between rollers and rail.

- **Standard**
  - with 2 rollers, 1 concentric and 1 eccentric

- **Blindo Beam®**
  - with 4 or 8 rollers. It provides 3 mounting surfaces

- **Compact**
  - with 2 rollers. Suitable for low clearances and limited operation room

- **Floating**
  - with 4, 6 or even more rollers. Suitable for the withstanding minor misalignments on the rail mounted in pairs, one concentric and one eccentric

- **“V” roller support**
  - This kind of support are suggested for light applications and constricted operation areas

Supports are mounted on the frame when the rail is movable and on the trolleys when it is fixed. By the calculation of system needs, consider the max. radial load applicable to the rollers in accordance with the description of each roller.
### Measurement units

**Conversion tables**

<table>
<thead>
<tr>
<th></th>
<th><strong>English to metric</strong></th>
<th><strong>Metric to english</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
<td><strong>Symbol</strong></td>
<td><strong>Value</strong></td>
</tr>
<tr>
<td>Length unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>inch</td>
<td>in</td>
<td>25.4 mm</td>
</tr>
<tr>
<td>foot</td>
<td>ft</td>
<td>0.3 m</td>
</tr>
<tr>
<td>yard</td>
<td>yd</td>
<td>0.91 m</td>
</tr>
<tr>
<td>mile</td>
<td>mi</td>
<td>1.6 Km</td>
</tr>
<tr>
<td>Surface unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>square inch</td>
<td>in²</td>
<td>6.5 cm²</td>
</tr>
<tr>
<td>square foot</td>
<td>ft²</td>
<td>929 cm²</td>
</tr>
<tr>
<td>square yard</td>
<td>yd²</td>
<td>0.83 m²</td>
</tr>
<tr>
<td>Volume unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cubic inch</td>
<td>in³</td>
<td>16.4 cm³</td>
</tr>
<tr>
<td>cubic foot</td>
<td>ft³</td>
<td>0.027 m³</td>
</tr>
<tr>
<td>cubic yard</td>
<td>yd³</td>
<td>0.765 m³</td>
</tr>
<tr>
<td>Capacity unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US gallon</td>
<td>gal us</td>
<td>3.78 l</td>
</tr>
<tr>
<td>Imperial gallon</td>
<td>gal uk</td>
<td>4.54 l</td>
</tr>
<tr>
<td>Mass unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ounce</td>
<td>oz</td>
<td>28.35 g</td>
</tr>
<tr>
<td>pound</td>
<td>lb</td>
<td>0.453 kg</td>
</tr>
<tr>
<td>Power unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>horse power uk</td>
<td>bhp</td>
<td>0.745 kW</td>
</tr>
<tr>
<td>foot-pound</td>
<td>lbf ft/s</td>
<td>745 W</td>
</tr>
<tr>
<td>horse power uk</td>
<td>bhp</td>
<td>1.01 CV</td>
</tr>
<tr>
<td>Speed unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>foot per second</td>
<td>ft/s</td>
<td>0.305 m/s</td>
</tr>
<tr>
<td>Force unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pound-force</td>
<td>lbf</td>
<td>4.448 N</td>
</tr>
<tr>
<td>Mechanical moment unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>inch-pound</td>
<td>lbf in</td>
<td>0.112 Nm</td>
</tr>
<tr>
<td>foot-pound</td>
<td>lbf ft</td>
<td>1.355 Nm</td>
</tr>
<tr>
<td>Pressure unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pound-force/square inch</td>
<td>psi</td>
<td>6894.7 Pa</td>
</tr>
<tr>
<td>Lineic weight unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pound per foot</td>
<td>lb/ft</td>
<td>14.593 N/m</td>
</tr>
<tr>
<td>Frequency unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cycles per second</td>
<td>cps</td>
<td>1 Hz</td>
</tr>
<tr>
<td>Energy unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>British thermal unit</td>
<td>Btu</td>
<td>1055.06 J</td>
</tr>
<tr>
<td>foot-pound</td>
<td>lbf ft</td>
<td>1.355 J</td>
</tr>
</tbody>
</table>

**Thermodynamic scales**

<table>
<thead>
<tr>
<th>Description</th>
<th>Symbol</th>
<th>tC</th>
<th>tF</th>
<th>tK</th>
</tr>
</thead>
<tbody>
<tr>
<td>temp. Celsius</td>
<td>tC</td>
<td>1</td>
<td>5/9 (tF-32)</td>
<td>tK-273.15</td>
</tr>
<tr>
<td>temp. Fahrenheit</td>
<td>tF</td>
<td>9/5 tC+32</td>
<td>1</td>
<td>9/5 tK-459.67</td>
</tr>
<tr>
<td>temp. Kelvin</td>
<td>tK</td>
<td>tC+273.15</td>
<td>5/9 tF+255.37</td>
<td>1</td>
</tr>
</tbody>
</table>

Tab. 2

Tab. 3
"Speedy Rail 35" guide and specification


Area = 222 mm2
Max. angular distortion = ±20'/m.
Linear mass = 0.55 Kg/m.
Max. Linear distortion = 0.5 mm/m.
External surface: deep hard anodizing
"Speedy Rail 35" assemblies and components

- Concentric Reaction Roller
  - Page SR-8

- Eccentric Reaction Roller
  - Page SR-8

- Concentric "V" Shaped Roller
  - Page SR-8

- Speedy Rail Guide
  - Page SR-6

- Eccentric "V" Shaped Roller
  - Page SR-8
Speedy Rail guide with plain ends

Drilled Speedy Rail 35 guide - Order code 411.1405/length in mm.

Plastic compound eccentric roller,
max load: radial 200 N, axial 100 N

Plastic compound concentric roller,
max load: radial 200 N axial 100 N
Sliding doors "Speedy Rail 35" application example

Overturning locking upper rollers
Supporting lower rollers
"Speedy Rail C 48" guide and specification

Material: aluminium alloy with hardened surface (700 Hv)
Surface quadratic moments: I’’ XX AXIS= 152.026 mm4 I’’ YY AXIS= 36.823 mm4
Section modules: W (X) = 6334 mm3 / W (Y) = 2045 mm3
Distance between the centre line of opposite rolling lanes: 28.86 mm
Linear mass = 1.42 kg/m.
Max. Angular distortion = ±20'/m max.
Max. linear distortion = ±0.4 mm/m. Max.
Exterior treatment: deep hard anodizing

Rollers
Supported by ball or needle bearings. The external surface is finished with plastic compound.
"Speedy Rail C 48" assemblies and components

- 4 Rollers Assembly
  - Page SR-13
- Speedy Rail C 48 Profile
  - Page SR-10
- 3 Rollers Assembly
  - Page SR-13
- 2 Rollers Assembly
  - Page SR-13
- 1 Roller Assembly
  - Page SR-12
- Concentric Roller
  - Page SR-12
- Eccentric Roller
  - Page SR-12
- Axially Free Concentric Roller
  - Page SR-12
- Axially Free Eccentric Roller
  - Page SR-12
Rollers and roller boxes for "Speedy Rail C 48" guide

ROL-C031WC-X - Axially constrained concentric roller
ROL-E031WC-B - Axially constrained eccentric roller (ecc. max. 1.4 mm)
Max radial load 270 N - max axial load 100 N

ROL-C031VC-XA - Axially free concentric roller
ROL-E031VC-BA - Axially free eccentric roller (ecc. max. 1.4 mm)
Max radial load 270 N - it doesn’t accept axial load

55.1062 - Roller assembly with one conc. roller
55.1067 - Roller assembly with one ecc. roller
Max. Load per roller: radial 270 N / axial 100 N

55.1066 - Roller assembly with one conc. axial free roller
55.1065 - Roller assembly with one ecc. axial free roller
Max. Load per roller: radial 270 N
No axial loading
Roller boxes for "Speedy Rail C 48" guide

55.1061 - Roller assembly with one concentric and one excentric roller
Max. load per roller: radial 270 N / axial 100 N

55.1064 - Roller assembly with 4 rollers, 3 conc. and 1 ecc.
Max. load per roller: radial 270 N / axial 100 N

55.1069 - Roller assembly with 4 rollers, 2 conc. and 2 ecc.
Max. load per roller: radial 270 N / axial 100 N

On roller assemblies with 2-3-4 rollers it is possible to have different solutions (axial constrained, axial free, concentric and eccentric rollers).
"Speedy Rail Mini" guide and specification

Surface quadratic moments: X-X axis = 138,600 mm$^4$ / Y-Y axis = 18,000 mm$^4$.
Max. manufacturing tolerances = ±0.15 mm across opposite rolling surfaces.
Max. angular distorsion = ±20°/m.
Linear mass = 1.27 Kg/m.
Max. linear distorsion = ±0.4 mm/m.
Ext. surface: deep hard anodizing
"Speedy Rail Mini" roller assemblies and components

- ROLLER ASSEMBLY WITH 3 "V" ROLLERS
  PAG. SR-18-SR-19

- ROLLER ASSEMBLY WITH 4 "V"
  PAG. SR-18-SR-19

- DOVETAIL AND FISHPLATE FOR END TO END JOINING
  PAG. SR-17

- DOVETAIL AND FISHPLATE FOR SIDE ARM ACCESSORIES MOUNTING
  PAG. SR-17

- END BAR MOUNTING KIT
  PAG. SR-16

- END CAP
  PAG. SR-12

- RACK MOUNTING KIT
  PAG. SR-17, SR-54

- DRIVE HEAD
  PAG. SR-16

Fig. 25
"Speedy Rail Mini" guide and components

Mini speedy rail with plain ends

**SR060 - T**

![Mini speedy rail with plain ends](image)

**Fig. 26**

Mini speedy rail with drilled ends

**SR060 - F**

![Mini speedy rail with drilled ends](image)

**Fig. 27**

**Nota:** drillings on the guide end are required as a safety measure with end-to-end joining in moving rails. See technical note on page SR-68.

Fishplate for drive head

**411.0767**

![Fishplate for drive head](image)

**Fig. 28**

**M6 allen round head screw**

**411.0775**

![M6 allen round head screw](image)

**Fig. 29**

Drive head

**411.0776**

![Drive head](image)

**Fig. 30**

End cap

**411.0739**

![End cap](image)

**Fig. 31**
Dovetail clamps and fishplates

Dovetail clamps

<table>
<thead>
<tr>
<th>Code N°</th>
<th>N° Holes</th>
<th>F</th>
<th>G</th>
<th>L</th>
<th>M</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.1732</td>
<td>1</td>
<td>10</td>
<td>/</td>
<td>20</td>
<td>M4</td>
<td>Burnished steel</td>
</tr>
<tr>
<td>411.2732</td>
<td>1</td>
<td>10</td>
<td>/</td>
<td>20</td>
<td>M5</td>
<td></td>
</tr>
<tr>
<td>411.2733</td>
<td>9</td>
<td>8</td>
<td>60</td>
<td>496</td>
<td>M5</td>
<td></td>
</tr>
<tr>
<td>411.0732</td>
<td>1</td>
<td>10</td>
<td>/</td>
<td>20</td>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>411.0768</td>
<td>2</td>
<td>15</td>
<td>30</td>
<td>60</td>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>411.0754</td>
<td>3</td>
<td>10</td>
<td>30</td>
<td>80</td>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>411.0769</td>
<td>6</td>
<td>25</td>
<td>30</td>
<td>200</td>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>411.0771</td>
<td>2</td>
<td>25</td>
<td>100</td>
<td>150</td>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>411.0462</td>
<td>2</td>
<td>10</td>
<td>30</td>
<td>50</td>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>411.3532</td>
<td>1</td>
<td>10</td>
<td>/</td>
<td>20</td>
<td>M8</td>
<td></td>
</tr>
</tbody>
</table>

Fishplate

Material: hard anodized aluminium alloy

Fishplate for end to end joining

Dovetail quick front insertion

Material: hard anodized aluminium alloy
Fishplate for side-arm attachment

Material: hard anodized aluminium alloy

Plate for m2 rack mounting

Roller assembly and "V" rollers "Light"

Plastic compound eccentric roller

Plastic compound concentric roller

Max. load: radial 270 N axial 100 N

For axially free roller see page SR-12 ( 55.1072 CONC. - 55.1073 ECC. )

Roller assembly with 3 rollers
Roller assemblies and "V" rollers

Roller assembly with 4 rollers

55.0375

Fig. 42

Roller assembly with 3 rollers

55.0605

Fig. 45

Roller assemblies and "V" rollers

Plastic compound concentric roller

ROL-C050VC-B

Max. load: radial 400 N axial 100 N

Fig. 43

Plastic compound eccentric roller

ROL-E050VC-B

Max. load: radial 400 N axial 100 N

Fig. 44
Roller assembly with 4 rollers

Fig. 46
“Middle Speedy Rail” guide and specifications

Surface quadratic moments: X-X axis = 630,000 mm\(^4\) / Y-Y axis = 76,500 mm\(^4\).
Max. manufacturing tolerances = ±0.20 mm across opposite rolling surfaces.
Max. angular distortion = ±20'/m.
Linear mass = 2.6 Kg/m.
Max. linear distortion = ±0.4 mm/m.
External surface: deep hard anodizing
"Middle Speedy Rail" assemblies and components
"Middle Speedy Rail" guide and components

Middle Speedy Rail with plain ends

**SR090 - T**

![Fig. 49](image)

Middle Speedy Rail with drilled ends

**SR090 - F**

![Fig. 50](image)

**Note:** drillings on the guide end are required as a safety measure with end-to-end joining in moving rails. See technical note on page SR-68

Fishplate for drive head

411.0866

![Fig. 51](image)

Drive head

411.0856

![Fig. 52](image)

End cap

411.0858

![Fig. 53](image)

Bolt for drive head mount

411.0610

![Fig. 54](image)
Dovetail clamps and fishplates

Dovetail Clamp

<table>
<thead>
<tr>
<th>Code N.</th>
<th>N° Holes</th>
<th>F</th>
<th>G</th>
<th>L</th>
<th>M</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.1025</td>
<td>1</td>
<td>25</td>
<td>/</td>
<td>50</td>
<td>M4</td>
<td>Burnished steel</td>
</tr>
<tr>
<td>411.1047</td>
<td>1</td>
<td>25</td>
<td>/</td>
<td>50</td>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>411.1045</td>
<td>1</td>
<td>25</td>
<td>/</td>
<td>50</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>411.1069</td>
<td>2</td>
<td>25</td>
<td>50</td>
<td>100</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>411.1088</td>
<td>3</td>
<td>25</td>
<td>50</td>
<td>150</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>411.1072</td>
<td>4</td>
<td>25</td>
<td>50</td>
<td>200</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>411.1070</td>
<td>6</td>
<td>25</td>
<td>50</td>
<td>300</td>
<td>M8</td>
<td></td>
</tr>
</tbody>
</table>

Dovetail-execution without step

411.1046

Dovetail-quick front insertion version

411.0855

Fishplate for end to end joining

411.0872

Material: hard anodized aluminium alloy

Fishplate for side-arm attachment

411.1124

Material: hard anodized aluminium alloy

Steel plate for m2 rack mounting

411.1226

SR-24
Plastic compound shell "V" rollers

Concentric roller

**ROL-C062VC-B**

Max. load: radial 450 N/axial 150 N

Max. radial load: 700 N - Optional lifetime lubrication

![Fig. 61](image1)

**ROL-C062VC-BH**

Max. load: radial 700 N/axial 280 N - Optional lifetime lubrication

![Fig. 63](image2)

**ROL-C062VC-BA**

Max. radial load: 700 N - Optional lifetime lubrication

![Fig. 65](image3)

Eccentric roller

**ROL-E062VC-B**

Max. load: radial 450 N/axial 150 N

![Fig. 62](image4)

**ROL-E062VC-BR**

Max. load: radial 700 N/axial 280 N - Optional lifetime lubrication

![Fig. 64](image5)

**ROL-E062VC-BA**

Max. radial load: 700 N - Optional lifetime lubrication

![Fig. 66](image6)
Roller assembly with "V" shaped rollers

Roller assembly with 4 rollers

Roller assembly with 3 rollers

The plates - cod. 411.0825 and 411.0824 - are made in aluminium alloy with hard anodization. The rollers - cod. 55.0387, 55.0388, 55.0130 55.0131 - and/or different combinations from the ones shown on this page can be mounted on the above plates. Please call our technical dept. Prior any configuration changes.
"Standard Speedy Rail" guide and specifications

Surface quadratic moments: X-X axis = 2,138,988 mm⁴ / Y-Y axis = 259,785 mm⁴.
Max. manufacturing tolerances = ±0.20 mm across opposite rolling surfaces.
Max. angular distortion = ±20'/m.
Linear mass = 4.4 Kg/m.
Max. linear distortion = ±0.5 mm/m.
External surface: deep hard anodizing.
"Standard Speedy Rail" assemblies and components

- ROLLER ASSEMBLY WITH CYLINDRICAL ROLLERS
  PAG. SR-45-SR-49
- LIGHT FLOATING ROLLER ASSEMBLY
  PAG. SR-44
- FULL BLOCK ROLLER ASSEMBLY
  PAG. SR-40, SR-41
- BLINDO BEAM ROLLER ASSEMBLY
  PAG. SR-42, SR-43
- COMPACT ROLLER ASSEMBLY
  PAG. SR-39
- RACK MOUNTING KIT
  PAG. SR-32
- TAPPO D’ESTREMITA’
  PAG. SR-30
- DOVETAIL AND FISHPLATE FOR END TO END JOINING
  PAG. SR-31
- DOVETAIL AND FISHPLATE FOR SIDE ARM - ACCESSORIES MOUNTING
  PAG. SR-31, SR-33
- DRIVE HEAD MOUNTING KIT
  PAG. SR-31, SR-33
- DRIVE HEAD
  PAG. SR-30
- ROLLER ASSEMBLY WITH 4 “V” ROLLERS
  PAG. SR-35

Fig. 70
"Standard Speedy Rail" guide and specifications

Standard Speedy Rail with plain ends

SR120 - T

Note: drillings on guide end are required as a safety measure with end-to-end joining in moving rails.

Standard Speedy Rail with drilled ends

SR120 - F
Components for speedy rail SR120 guide

**Drive head**

411.0476

**Bolt for drive head**

411.0617

**Aluminium alloy end cap**

411.1740
Standard dovetail clamps

**Dovetail clamps with M8 threaded holes**

**Dovetail clamps with M10 threaded holes**

**Code N.** | N° Holes | F | G | L | Material
---|---|---|---|---|---
411.0845 | 1 25 / | 50 | Burnished steel
411.0745 | 1 25 / | 50 |
411.0503 | 2 15 40 | 70 |
411.0469 | 2 25 50 | 100 |
411.0588 | 3 25 50 | 150 |
411.0472 | 2 25 150 | 200 |
411.0470 | 6 25 50 | 300 |

**Code N.** | N° Holes | F | G | L | Material
---|---|---|---|---|---
411.0675 | 2 15 20 | 50 | Burnished steel
411.1111 | 1 25 / | 50 |
411.1112 | 2 25 50 | 100 |
411.1113 | 3 25 50 | 150 |
411.0970 | 6 25 50 | 300 |

**Code N.** | N° Holes | F | G | L | Material
---|---|---|---|---|---
411.1187 | * M10 dovetail-quick front-insertion version |
411.0845 | * M12 dovetail-quick front-insertion version |
Steel dovetail without step

Steel dovetail quick front insertion without step

Racks components for rigid mounting

Fishplate for mod.3-4 rack mounting on dovetail grooves

For rack mounting plate mod.3 Use dovetail 411.1111
For rack mounting plate mod.4 Use dovetail 411.1117
For standard racks see page SR-52; For dovetail see page SR-31, SR-32; For insert see page SR-56
Standard fixing fishplates

Side attachment fishplate suitable for: speedy rail standard, wide body, super wide body

<table>
<thead>
<tr>
<th>Code N.</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>L</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.0570</td>
<td>70</td>
<td>25</td>
<td>150</td>
<td>60</td>
<td>200</td>
<td>Hard anodized aluminium alloy</td>
</tr>
</tbody>
</table>

Tab. 10

Fishplates for end to end joining suitable for speedy rail standard, wide body, super wide body

<table>
<thead>
<tr>
<th>Code N.</th>
<th>N° Fori</th>
<th>L</th>
<th>F</th>
<th>G</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.0572</td>
<td>6</td>
<td>300</td>
<td>25</td>
<td>50</td>
<td>Hard anodized aluminium alloy</td>
</tr>
<tr>
<td>411.0690</td>
<td>6</td>
<td>300</td>
<td>25</td>
<td>50</td>
<td>Burnished steel</td>
</tr>
<tr>
<td>411.0573</td>
<td>6</td>
<td>300</td>
<td>25</td>
<td>50</td>
<td>Steel/countersunk holes</td>
</tr>
</tbody>
</table>

Tab. 11

Fishplate for drive head

M12 exag. head screw

<table>
<thead>
<tr>
<th>Code N.</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.0475</td>
<td></td>
</tr>
</tbody>
</table>

Fig. 83

Fig. 84

Fig. 85

Fig. 86
Plastic compound shell "V" rollers

**Concentric roller**

ROL-C080VC-B

Radial load 700 N max. axial load 200 N max. - lifetime lubrication

Radial load 700 N max. axial load 200 N max.

Fig. 87

**Eccentric roller**

ROL-E080VC-B

Radial load 700 N max. axial load 200 N max.

Fig. 88

**High stiffness concentric roller**

ROL-C080VC-BR

Radial load 1000 N max. axial load 400 N max. - Optional lifetime lubrication (end play 0.010/0.030 mm)

Fig. 89

**High stiffness eccentric roller**

ROL-E080VC-BR

Radial load 1000 N max. axial load 400 N max. - Optional lifetime lubrication (end play 0.010/0.030 mm)

Fig. 90

**Concentric roller - axially free: ±1.9 mm**

ROL-C080VC-BVA

Radial load: 1000 N max. - lifetime lubrication

Fig. 91

**Eccentric roller - axially free: ±1.9 mm**

ROL-E080VC-BVA

Radial load: 1000 N max. - lifetime lubrication

Fig. 92
Roller assembly with "V" rollers

Light weight roller assembly with 4 rollers

```
55.0557
```

```
320
250
220
192
```

```
ROL-C080VC-B
ROL-E080VC-B
```

```
42
45
7.5
12
```

```
Ø24H7/g6
Ø80/g135
25
7.5
```

```
411.0735
```

Fig. 93

Roller assembly with 4 high stiffness rollers

```
55.0558
```

```
320
250
220
192
```

```
ROL-C080VC-B
ROL-E080VC-B
```

```
43.5
45
7
12
```

```
Ø24H7/g6
Ø80/g135
25
7.5
```

```
411.0735
```

Fig. 94

The plate -cod. 411.0735 - is made in aluminium alloy with hard anodization. The rollers -cod. ROL-C080VC-BVA ROL-E080VC-BVA - and/or different combinations from the ones shown on this page can be mounted on the above plates after consulting our technical department.
Plastic compound shell rollers

Concentric roller radial load: 1280 N max.
Lifetime lubrication
ROL-C052CCL-BV

Eccentric roller radial load: 1280 N max.
Lifetime lubrication
ROL-E052CCL-BV

Concentric roller radial load: 1280 N max. Periodical lubrication
ROL-C052CCC-BP

Eccentric roller radial load: 1280 N max. Periodical lubrication
ROL-E052CCC-BP

Concentric roller radial load: 880 N max.
Periodical lubrication
ROL-C040CC-BP

Concentric roller radial load: 880 N max.
Lifetime lubrication
ROL-C040CC-BV
**Heavy duty concentric ‘V’ roller**

ROL-C090VC-BH

Max. load: radial 1150 N axial 650 N

---

**Heavy duty eccentric ‘V’ roller**

ROL-E090VC-BH

Max. load: radial 1150 N axial 650 N

---

**Heavy duty concentric ‘V’ roller - axially free: ±1.5 mm**

ROL-C090VC-BAH

Radial load: 1150 N max.

---

**Heavy duty eccentric ‘V’ roller - axially free: ±1.5 mm**

ROL-E090VC-BAH

Radial load: 1150 N max.

---

**Protected concentric ‘V’ roller for heavy duties**

ROL-C090VC-BS

Max. load: radial 1150 N axial 650 N - Optional lifetime lubrication

---

**Protected eccentric ‘V’ roller for heavy duties**

ROL-E090VC-BS

Max. load: radial 1150 N axial 650 N - Optional lifetime lubrication

---

**Wheelbase for all ‘V’ shaped rollers on Speedy Rail:**

Wheelbase between roller centers for SR250 = 302.2 mm

Wheelbase between roller centers for SR180 = 232.2 mm

Wheelbase between roller centers for SR120 = 176.2 mm
2 Rollers light full-block assembly

55.1550
Light alloy rollers assembly with 2 Ø40 rollers. ROL-C040CC-BP
Periodical lubrication.

55.1570
Light alloy rollers assembly with 2 Ø40 rollers, ROL-C040CC-BV
Lifetime lubricated.
Compact roller assembly with plastic compound rollers

Light alloy compact roller assembly periodical lubrication version

Light alloy compact roller assembly lifetime lubrication version

Fig. 108

Fig. 109
**Full-block roller assembly**

55.0325
Light alloy body roller assembly with mounting holes on short sides and plastic compound rollers, periodical lubrication version, rollers ROL-C052CCL-BP, ROL-E052CCL-BP

55.0725
Lifetime lubrication version rollers ROL-C052CCL-BV, ROL-E052CCL-BV

55.0433
Light alloy body roller assembly with mounting holes on long sides and plastic compound rollers, periodical lubrication version, rollers ROL-C052CCL-BP, ROL-E052CCL-BP

55.0733
Lifetime lubrication version rollers ROL-C052CCL-BV, ROL-E052CCL-BV
Roller assembly with 4 rollers

55.0323
Roller assembly with backing plate 280x150x15. Rollers ROL-C052CCL-BP, ROL-E052CCL-BP with periodical lubrication

55.0723
Roller assembly with backing plate 280x150x15. Rollers ROL-C052CCL-BV, ROL-E052CCL-BV, lifetime lubricated

55.0324
Roller assembly with backing plate 235.5X80x15. Rollers ROL-C052CCL-BP, ROL-E052CCL-BP with periodical lubrication

55.0724
Roller assembly with backing plate 235.5X80x15. Rollers ROL-C052CCL-BV, ROL-E052CCL-BV lifetime lubricated
Narrow/wide base blindo beam roller assembly

Narrow base roller assembly

55.0472-FIL
Equipped with 4 threaded fixing inserts
Periodical lubrication

55.0472-PAS
Equipped with 4 through hole fixing inserts
Periodical lubrication

Wide base roller assembly

55.0411
Periodical lubrication

55.0711
Lifetime lubrication

55.0772-FIL
Equipped with 4 threaded fixing inserts
Lifetime lubrication

55.0772-PAS
Equipped with 4 through hole fixing inserts
Lifetime lubrication
8 Rollers blindo beam roller assembly

**55.0222-FIL**
Equipped with 6 threaded fixing inserts
Lifetime lubrication

**55.0222-PAS**
Equipped with 6 through hole fixing inserts
Lifetime lubrication
Light 4 rollers floating assembly for Speedy Rail guides

Assemblies without baseplate have the same code followed by "SP" (i.e. 55.1361/SP)

<table>
<thead>
<tr>
<th>Roller assemblies reference</th>
<th>Axially constrained</th>
<th>Axially free</th>
<th>Rollers code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERIODICAL LUBRICATION</td>
<td>ECC. 55.1565</td>
<td>55.3563</td>
<td>ROL-C040CC-BP</td>
</tr>
<tr>
<td></td>
<td>CONC. 55.1566</td>
<td>55.3564</td>
<td></td>
</tr>
<tr>
<td>LIFETIME LUBRICATION</td>
<td>ECC. 55.1555</td>
<td>55.3553</td>
<td>ROL-C040CC-BV</td>
</tr>
<tr>
<td></td>
<td>CONC. 55.1556</td>
<td>55.3554</td>
<td></td>
</tr>
</tbody>
</table>

Fig. 118

* Lubrication nipple mounted for periodic lubrication versions only
Floating roller assembly with 4 rollers - short/long pivot

Notes:

The axially free version of the assemblies are normally mounted on trolleys running on parallel rails. Coupled with axially constrained assemblies provide a flexible structure able to withstand minor misalignments between runways.

Assemblies without baseplate have the same code followed by "SP" (ad es. 55.1361/SP).

<table>
<thead>
<tr>
<th>Roller assemblies reference</th>
<th>Axially constrained</th>
<th>Axially free</th>
<th>Rollers code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short pivot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERIODICAL LUBRICATION</td>
<td>55.1361</td>
<td>55.3361</td>
<td>ROL-C052C-CL-BP</td>
</tr>
<tr>
<td>LIFETIME LUBRICATION</td>
<td>55.1364</td>
<td>55.3364</td>
<td>ROL-C052C-CL-BV</td>
</tr>
<tr>
<td>Long pivot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERIODICAL LUBRICATION</td>
<td>55.1363</td>
<td>55.3363</td>
<td>ROL-C052C-CL-BP</td>
</tr>
<tr>
<td>LIFETIME LUBRICATION</td>
<td>55.1365</td>
<td>55.3365</td>
<td>ROL-C052C-CL-BV</td>
</tr>
</tbody>
</table>

Tab. 13
5 Rollers assembly, one fixed, one self adjusting

Fixed 5 concentric rollers assembly

Fig. 120

Fixed 5 roller assembly, with 2 eccentric rollers for auto backlash retrieval

Fig. 121
**Floating roller assembly with 6 rollers - short/long pivot**

![Diagram of roller assembly](image)

* Lubrication nipple mounted for periodic lubrication versions only

**Notes:**

The axially free version of the assemblies are normally mounted on trolleys running on parallel rails. Coupled with axially constrained assemblies provide a flexible structure able to withstand minor misalignments between runways.

Assemblies without baseplate have the same code followed by "SP" (i.e. 55.1366/SP).

---

**Roller assemblies**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Axially constrained</th>
<th>Axially free</th>
<th>Rollers code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short pivot</td>
<td>PERIODICAL LUBRICATION</td>
<td>ECC. 55.1423</td>
<td>55.3423</td>
</tr>
<tr>
<td></td>
<td>CONC. 55.1424</td>
<td>55.3424</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LIFETIME LUBRICATION</td>
<td>ECC. 55.1425</td>
<td>55.3425</td>
</tr>
<tr>
<td></td>
<td>CONC. 55.1426</td>
<td>55.3426</td>
<td></td>
</tr>
<tr>
<td>Long pivot</td>
<td>PERIODICAL LUBRICATION</td>
<td>ECC. 55.1419</td>
<td>55.3419</td>
</tr>
<tr>
<td></td>
<td>CONC. 55.1420</td>
<td>55.3420</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LIFETIME LUBRICATION</td>
<td>ECC. 55.1421</td>
<td>55.3421</td>
</tr>
<tr>
<td></td>
<td>CONC. 55.1422</td>
<td>55.3422</td>
<td></td>
</tr>
</tbody>
</table>

Tab. 14
Notes:
The axially free version of the assemblies are normally mounted on trolleys running on parallel rails. Coupled with axially constrained assemblies provide a flexible structure able to withstand minor misalignments between runways.

Assemblies without baseplate have the same code followed by "SP" (i.e. 55.1366/SP)

* Lubrication nipple mounted for periodic lubrication versions only

---

<table>
<thead>
<tr>
<th>Roller assemblies reference</th>
<th>Axially constrained</th>
<th>Axially free</th>
<th>Rollers code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Short pivot</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERIODICAL LUBRICATION</td>
<td>ECC. 55.1366</td>
<td>55.3366</td>
<td>ROL-0052CL.-BP</td>
</tr>
<tr>
<td>CONC. 55.1370</td>
<td></td>
<td>55.3370</td>
<td></td>
</tr>
<tr>
<td>LIFETIME LUBRICATION</td>
<td>ECC. 55.1367</td>
<td>55.3367</td>
<td>ROL-0052CL.-BV</td>
</tr>
<tr>
<td>CONC. 55.1371</td>
<td></td>
<td>55.3371</td>
<td></td>
</tr>
<tr>
<td><strong>Long pivot</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERIODICAL LUBRICATION</td>
<td>ECC. 55.1368</td>
<td>55.3368</td>
<td>ROL-0052CL.-BP</td>
</tr>
<tr>
<td>CONC. 55.1372</td>
<td></td>
<td>55.3372</td>
<td></td>
</tr>
<tr>
<td>LIFETIME LUBRICATION</td>
<td>ECC. 55.1369</td>
<td>55.3369</td>
<td>ROL-0052CL.-BV</td>
</tr>
<tr>
<td>CONC. 55.1373</td>
<td></td>
<td>55.3373</td>
<td></td>
</tr>
</tbody>
</table>

**Tab. 15**
Assemblies without baseplate have the same code followed by "SP". The axially free version of the assemblies are normally mounted on balls running on parallel rails. Coupled with axially constrained assemblies provide a flexible structure able to withstand minor misalignments between runways.

Assemblies without baseplate have the same code followed by "SP". The axially free version of the assemblies are normally mounted on balls running on parallel rails. Coupled with axially constrained assemblies provide a flexible structure able to withstand minor misalignments between runways.

**Roller assemblies**

<table>
<thead>
<tr>
<th>Axially constrained</th>
<th>Axially free</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long pivot</td>
<td>Short pivot</td>
</tr>
<tr>
<td>PERIODICAL LUBRICATION CONC. 55.1147 55.3147 ROL-C052CCL- BVCONC. 55.1148 55.3148</td>
<td>PERIODICAL LUBRICATION CONC. 55.1143 55.3143 ROL-C052CCL- BVCONC. 55.1144 55.3144</td>
</tr>
<tr>
<td>LIFETIME LUBRICATION CONC. 55.1145 55.3145 ROL-C052CCL- BVCONC. 55.1146 55.3146</td>
<td>LIFETIME LUBRICATION CONC. 55.1149 55.3149 ROL-C052CCL- BVCONC. 55.1150 55.3150</td>
</tr>
</tbody>
</table>

- **Floating roller assembly with 8 rollers - short/long pivot**
  - Fig. 124
  - Lubrication nipple mounted for periodic lubrication versions only

- **VIEW FROM C**
  - Tab. 16
  - Long pivot roller assembly outline
  - Long pivot roller assembly outline

- **VIEW FROM A**
  - HOLE Ø8.5 FOR M8 SCREWS
  - HOLE Ø6H12

- **ADJUSTMENT SYSTEM FOR ECCENTRIC VERSIONS ONLY**
  - PIVOT FOR ROCKING ARM
  - ADJUSTMENT SYSTEM FOR ECCENTRIC VERSIONS ONLY

- **PIVOT FOR ROCKING ARM**
  - ADJUSTMENT SYSTEM FOR ECCENTRIC VERSIONS ONLY
  - PIVOT FOR ROCKING ARM
Assembling diagram for rigid mounted rack

Fig. 125
Standard racks

Straight toothed hardened rack

<table>
<thead>
<tr>
<th>Cod.</th>
<th>C</th>
<th>D</th>
<th>d</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>L</th>
<th>N</th>
<th>P</th>
<th>Mod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.1489</td>
<td>10</td>
<td>11</td>
<td>7</td>
<td>19,41</td>
<td>7</td>
<td>20</td>
<td>998,82</td>
<td>5</td>
<td>240</td>
<td>2</td>
</tr>
<tr>
<td>411.1491</td>
<td>10</td>
<td>11</td>
<td>7</td>
<td>42,07</td>
<td>7</td>
<td>20</td>
<td>2004,14</td>
<td>9</td>
<td>240</td>
<td>2</td>
</tr>
<tr>
<td>411.1499</td>
<td>17</td>
<td>14</td>
<td>9</td>
<td>19,41</td>
<td>9</td>
<td>30</td>
<td>998,82</td>
<td>5</td>
<td>240</td>
<td>3</td>
</tr>
<tr>
<td>411.1501</td>
<td>17</td>
<td>14</td>
<td>9</td>
<td>38,92</td>
<td>9</td>
<td>30</td>
<td>1997,84</td>
<td>9</td>
<td>240</td>
<td>3</td>
</tr>
<tr>
<td>411.1509</td>
<td>20,5</td>
<td>17</td>
<td>11</td>
<td>22,55</td>
<td>11</td>
<td>40</td>
<td>1005,10</td>
<td>5</td>
<td>240</td>
<td>4</td>
</tr>
<tr>
<td>411.1511</td>
<td>20,5</td>
<td>17</td>
<td>11</td>
<td>45,21</td>
<td>11</td>
<td>40</td>
<td>2010,42</td>
<td>9</td>
<td>240</td>
<td>4</td>
</tr>
</tbody>
</table>

Tab. 17

Indexing rack mounting components

<table>
<thead>
<tr>
<th>Rack</th>
<th>Mounting plates</th>
<th>Dovetails</th>
<th>Inserts</th>
</tr>
</thead>
<tbody>
<tr>
<td>m3</td>
<td>SR-32, SR-65</td>
<td>SR-31</td>
<td>SR-55</td>
</tr>
<tr>
<td>m4</td>
<td>SR-32, SR-65</td>
<td>SR-31</td>
<td>SR-55</td>
</tr>
</tbody>
</table>

Tab. 18
## Standard scrapers

### Scraper for floating and full-block assemblies

**411.0685**

![Fig. 127](image1)

### Scraper for compact

**411.0686**

![Fig. 128](image2)

### Sliding brush for speedy rail and steel rail.

Brushes are kept against tracks by springs.

**55.1000**

![Fig. 129](image3)

### Scraper for light floating rollers assemblies

**55.1794.05**

![Fig. 130](image4)

### Scraper for blindo beam roller assemblies

**55047202**

![Fig. 131](image5)

**Note:**

All roller assemblies are equipped with the relate scrapers.
Wide body multi groove speedy rail guide and specifications

Surface quadratic moment: X-X axis = 10,291.100 mm4 / Y-Y axis = 1,278,700 mm4.
Max. manufacturing tolerances = ±0.30 mm across opposite rolling surfaces.
Max. angular distortion = ±20°/m.
Linear mass = 10.2 Kg/m.
Max. linear distortion = ±0.7 mm/m.
Standard lengths: 3000-3500-4000-4500-5000-5500-6000-6500-7000-7500 mm.
External surface: deep hard anodizing
Roller assemblies and components

- Floating Roller Assembly
  - PAG. SR-45, SR-49
- Light Floating Roller Assembly
  - PAG. SR-44
- Full Block Roller Assembly
  - PAG. SR-40, PAG. SR-60
- Mono Block 2 Rollers Assembly
  - PAG. SR-39
- End Cap
  - PAG. SR-58
- Rack Mounting Kit
  - PAG. SR-32
- Doventail and Fishplate for End to End Joining
  - PAG. SR-31, SR-33
- Doventail and Fishplate for Side Arm - Accessories Mounting
  - PAG. SR-31, SR-33
- End Bar Mounting Kit
  - PAG. SR-31, SR-33
- Derive Head
  - PAG. SR-58
- V-shaped Rollers Assembly
  - PAG. SR-59

Fig. 133
Wide body multi groove speedy rail guide and specifications

Speedy Rail 180 with plain ends: SR180-T
Speedy Rail 180 with drilled ends: SR180-F

SR180-T  
SR180-F

![Fig. 134]

Insert

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Material</th>
<th>N° Holes</th>
<th>Cod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>496</td>
<td>60</td>
<td>M4</td>
<td>8</td>
<td>16</td>
<td>Burnished steel</td>
<td>9</td>
<td>411.2534</td>
</tr>
<tr>
<td>496</td>
<td>60</td>
<td>M5</td>
<td>8</td>
<td>16</td>
<td></td>
<td>9</td>
<td>411.2533</td>
</tr>
<tr>
<td>496</td>
<td>80</td>
<td>M6</td>
<td>8</td>
<td>16</td>
<td></td>
<td>9</td>
<td>411.3633</td>
</tr>
</tbody>
</table>

Tab. 19

Insert

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Material</th>
<th>N° Holes</th>
<th>Cod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>M4</td>
<td>-</td>
<td>-</td>
<td>Zinc plated steel</td>
<td>1</td>
<td>411.1349</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>M5</td>
<td>-</td>
<td>-</td>
<td></td>
<td>1</td>
<td>411.1351</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>M6</td>
<td>-</td>
<td>-</td>
<td></td>
<td>1</td>
<td>411.1352</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>M8</td>
<td>-</td>
<td>-</td>
<td></td>
<td>1</td>
<td>411.1353</td>
</tr>
</tbody>
</table>

Tab. 20

Note:
Drillings on the bar end are required as a safety measure with end-to-end joining in moving rails.

![Fig. 135]

Wide body multi groove speedy rail guide (SR180) uses the same dovetails, plates, fishplates and joining components of speedy rail standard (SR120 section) see page SR-31, SR-32, SR-33
Components for wide body multi groove Speedy Rail guide

Drive head

Bolt for drive head

Aluminium alloy end cap

Fig. 137

Fig. 138

Fig. 139
Roller assembly with "V" shaped rollers

55.1180
Heavy duty roller assembly with 4 rollers, two ROL-C090VC-BS and two ROL-E090VC-BS.
Roller assembly with 4 rollers

55.0713
Roller assembly with backing plate 336x150x15 rollers with lifetime lubrication

55.0513
Roller assembly with backing plate 336x150x15 rollers with periodical lubrication

55.0740
Roller assembly with backing plate 381.5x80x15 rollers with lifetime lubrication

55.0514
Roller assembly with backing plate 381.5x80x15 rollers with periodical lubrication
8 Rollers floating assembly - complete pairing

Notes:
The complete pairing kit comes with one eccentric and one concentric roller assembly mounted on a backing plate. The concentric roller assembly should take the heavier load. For trolley on 2 parallel guides use on one guide axially free roller assemblies (± 4mm).

Pairing kits are available with two roller assemblies having the same number of rollers. For different combinations (i.e. upper assembly with 6 rollers and lower assembly with 4 rollers, two eccentric rollers assemblies) please order the assemblies separately, without baseplate and add the backing plate shown in this page. However we suggest to verify always with our technical department prior to ordering.

* Lubricator nipple mounted for periodic lubrication versions only

<table>
<thead>
<tr>
<th>Pivot type</th>
<th>Lubrication type</th>
<th>Axially constrained</th>
<th>Axially free</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short pivot</td>
<td>Periodical</td>
<td>55.1380</td>
<td>55.3380</td>
</tr>
<tr>
<td></td>
<td>Lifetime</td>
<td>55.1381</td>
<td>55.3381</td>
</tr>
<tr>
<td>Long pivot</td>
<td>Periodical</td>
<td>55.1382</td>
<td>55.3382</td>
</tr>
<tr>
<td></td>
<td>Lifetime</td>
<td>55.1383</td>
<td>55.3383</td>
</tr>
</tbody>
</table>

Tab. 21
**Backing plate for floating roller assemblies**

Backing plate - Material: hard anodized aluminium alloy

![Fig. 146](image1)

**Fishplate for mod.2 Rack mounting on SR180, SR250 T grooves**

![Fig. 147](image2)

For rack mounting plate mod.2 Use insert 411.1352
Speedy Rail 250

Super wide body multi groove Speedy Rail guide and specifications

Surface quadratic moment X-X axis = 27,345,460 mm^4 / Y-Y axis = 4,120,150 mm^4.
Max. manufacturing tolerances = ±0.65 mm across opposite rolling surfaces.
Max. angular distortion = ±30°/m.
Linear mass = 15.20 Kg/m.
Max. linear distortion = ±0.5 mm/m.
Standard lengths: 3000-3500-4000-4500-5000-5500-6000-6500-7000-7500 mm.
External surface: deep hard anodizing
Roller assemblies and components

- DOVETAIL AND FISHPLATE FOR SIDE ARM-ACCESSORIES MOUNTING
- DOVETAIL AND FISHPLATE FOR END TO END JOINING
- DRIVE END MOUNTING KIT
- END CAP
- GUIDE END
- FULL BLOCK ROLLER ASSEMBLY
- FLOATING ROLLER ASSEMBLY
- LIGHT FLOATING ROLLER ASSEMBLY
- MONOBLOCK 4 ROLLERS ASSEMBLY
- "V" SHAPED ROLLERS ASSEMBLY
- RACK MOUNTING KIT
- PAG. SR-31, SR-33
- PAG. SR-40
- PAG. SR-44
- PAG. SR-45, SR-49
- PAG. SR-66
- PAG. SR-67
- PAG. SR-68
- PAG. SR-67
- 8 Speedy Rail 250
Superwide body multi groove Speedy Rail guide and specifications

Speedy Rail 250 with plain ends: SR250-T
Speedy Rail 250 with drilled ends: SR250-F

Note:
Drillings on the bar end are required as a safety measure with end-to-end joining in moving rails.

Super wide body multi groove speedy rail guide (SR250) uses the same dovetails, plates, fishplates and joining components of speedy rail standard (SR 120m section) see pages SR-31, SR-32, SR-33. Special plates, 411.0960, are also available for end-to-end joining in heavy duty applications.

* Particularly for side grooves the same inserts for SR180 (pag.SR-57) are used.

Steel fishplates for end to end joining

---

Fig. 151

Fig. 152
Components for super wide body Speedy Rail guide

Aluminium alloy end cap

![Diagram of Aluminium alloy end cap](image1)

Elastomer drive head

![Diagram of Elastomer drive head](image2)
Roller assembly with "V" shaped rollers

55.0808
Roller assembly with 4 rollers, two ROL-C090VC-BS and two ROL-E090VC-BS

Fishplate for mod.2 Rack mounting on, SR180, SR250 T grooves

Mod.2 straight toothed
For rack mounting plate mod. 2 use insert 411.1352

Fishplate for mod. 3 and 4 rack mounting on dovetail grooves

Mod.3 e 4
### Mechanical and technological components specifications

#### Guides
- Speedy Rail SR 35
- Speedy Rail SR C 48
- Speedy Rail Mini SR 60
- Speedy Rail Middle SR 90
- Speedy Rail Standard SR 120
- Speedy Rail Wide Body multiple grooves SR 180
- Speedy Rail Super Wide Body Multiple Grooves SR 250

#### Accessories
- Dovetails
- Fishplates

#### Material
- Aluminum Aloy

#### Tensile strength
- Tensile strength: $R = 245 \, \text{N/mm}^2$
- Yield stress: $S = 195 \, \text{N/mm}^2$
- Elongation: $10\% \div 13\%$
- Modulus of elasticity: $E=70000 \, \text{N/mm}^2$ $G=26000 \, \text{N/mm}^2$
- Mass density: $2.7 \, \text{kg/dm}^3$
- Coefficient of expansion: $K=23 \times 10^{-6} \, \text{mm/mm°C}$

#### Components
- Base plates
- Rocking arms
- Compact rollers assembly body

#### Material
- Aluminum Alloy

#### Tensile strength
- Tensile strength: $R = 275 \, \text{N/mm}^2$
- Yield stress: $S = 200 \, \text{N/mm}^2$
- Elongation: $10\% \div 13\%$
- Modulus of elasticity: $E=70000 \, \text{N/mm}^2$ $G=26000 \, \text{N/mm}^2$
- Mass density: $2.7 \, \text{kg/dm}^3$

#### Monoblock roller assembly case
- Full-block roller assembly case

#### Material
- Aluminum Alloy

#### Tensile strength
- Tensile strength: $R = 225 \, \text{N/mm}^2$
- Yield stress: $S = 142 \, \text{N/mm}^2$
- Elongation: $3\% \div 5\%$
- Modulus of elasticity: $E=70000 \, \text{N/mm}^2$ $G=26000 \, \text{N/mm}^2$
- Mass density: $2.7 \, \text{kg/dm}^3$
Treatments on all light alloy components

<table>
<thead>
<tr>
<th>Heat treatment</th>
<th>Age hardening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface treatment</td>
<td>Surface hardening: Low temperature deep anodizing to give a surface hardness of 600 ÷ 700 HV</td>
</tr>
<tr>
<td></td>
<td>Surface layer depth: 50 ± 60 micron (0.050 ± 0.060 mm) for rails, 25 ± 35 micron (0.025 ± 0.035 mm) for supports bodies and plates.</td>
</tr>
<tr>
<td></td>
<td>Chemical composition of surface layer: Al₂O₃</td>
</tr>
<tr>
<td></td>
<td>Fusion temperature of surface layer: 2100°C</td>
</tr>
<tr>
<td></td>
<td>Surface layer electric resistance at 20°C: 4x10¹⁵ Ohm/cm²/cm²</td>
</tr>
<tr>
<td></td>
<td>Dielectric constant: approx. 7.5</td>
</tr>
<tr>
<td></td>
<td>Puncture voltage of surface layer: 1500 V</td>
</tr>
</tbody>
</table>

Tab. 24

Rollers

**Speedy Rail system**

Rollers are manufactured with a steel shaft, high quality ball-needle bearings, rubber seals labyrinth.

The external surface of the roller is machined with a slightly convex profile, finished with a sintered plastic compound having the following properties:

- Tensile strength: 85 N/mm²
- Rockwell hardness: 120 R
- Melting point: +220 °C
- Max. continuous working temperature: +80°C
- Min. continuous working temperature: -30°C
- Dynamic friction coefficient: 0.25

Chemical resistance: excellent to mineral and organic oils; good to basic solutions; fairly good to acid solutions.

We always recommend a preliminary test for the rollers in the actual working environment.

Roller assemblies

Roller assemblies with four (4) rollers have the two inner rollers mounted on a plain, concentric sleeve while the outer ones have an eccentric sleeve. This setup allows the proper adjustments to compensate dimensional tolerances on the rail. Two roller assemblies have one roller with an eccentric sleeve and the other with a concentric setup.

Floating roller assemblies: all the rollers on this type of support have a concentric sleeve.

The adjustments are made possible by the pivot settings (hub), which comes either with an eccentric or concentric setup.

Custom configuration for roller assemblies are available upon request.
Rollers adjustments

Adjusting the rollers on a single section rail requires the rollers in a position that allows them to touch the running surface with no play - slightly pre-loaded. A different and more accurate setting is required when the runway is assembled with multiple sections.

The rollers setting must leave 0.15 ÷ 0.20 mm backsack (play) from the rail – Use a feeler gauge for best results. The setting requirement is determined by the dimensional tolerances on the rail sections.

Torque settings

Bolt purpose torque:

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6 (fixing scrapers)</td>
<td>10 Nm</td>
</tr>
<tr>
<td>M8 (fixing assemblies)</td>
<td>25 Nm</td>
</tr>
<tr>
<td>M10 (fixing assemblies)</td>
<td>45 Nm</td>
</tr>
<tr>
<td>M12 (dovetails &amp; fishplates)</td>
<td>55 Nm</td>
</tr>
<tr>
<td>M16 (fixing rollers)</td>
<td>75 Nm</td>
</tr>
</tbody>
</table>

Drillings of the end bars:

These are made in order to create a security connection for two or more moving rails that have an end to end joining, through the shaft of the special screws that are used for fixing the fishplate and the dovetails. This additional connection is not a guarantee for the precision but has got the aim to avoid injuries in the case that the moving rails unhook.

Scrapers

Are manufactured from a sintered compound, self lubricating, having a low friction coefficient. All the roller assemblies come with the scrapers. The purpose of this item is to keep foreign bodies out of the rollers. Scrapers shall never be set to slide on the rail.

For application environments with an excessive pollution or dust use the mobile brush assembly.

Drive head

For Speedy Rail profiles. Machined from a hard polymer rubber molding - Shore A hardness 90÷95 - Normally mounted on the bar ends when the system has a rail that moves in and out the roller assemblies. This rubber end piece allows the rail to be easily guided into the roller assemblies.
Lubrication

There is no need to lubricate our Speedy Rail profiles. However, lubricant is recommended on Steel rail profiles when used with steel rollers. Best results are obtained using our standard oiler. It provides continuous lubrication and keeps the rail clean.

Rollers: standard rollers with regular maintenance/greasing schedule have its own grease nipple. Please use grade 3 grease for working temperature of 10°C÷60°C.

Grade 2 grease is required when the working temperature drop below 10°C. Lubricate every 5-6 months.

For the “lifetime” lubrication version, the rollers are supplied with a high tech grease.

The grease nipples are removed from the assemblies since this configuration does not require any periodic lubrication.

Life testing

Speedy rail and system with plastic shell rollers

The max applicable load, stated in the description of each roller of the Speedy Rail systems, is determined depending on the characteristics of the plastic compound shell. The cylindrical rollers of Speedy Rail system can be used with translation speed up to 15 metres/second and with accelerations and decelerations up to 10 metres/sec2. For Speedy Rail and Speedy Rail C 48 systems with “V” shaped and for Speedy Rail 35 plastic compound rollers, the max translation speed is of 8 metres/second while the max accelerations and decelerations are of 8 metres/sec2. For higher dynamics please contact our technical department. For all roller types the working temperature limits are -30°C and +80°C.

The rollers with plastic compound shell do not damage themselves and do not damage the rails where the invert direction, even in presence of high accelerations and decelerations. Speedy Rail C 48 and Speedy Rail 35 systems has good performance and excellent life even in presence of dust. With stresses on the rollers within the max values stated on the catalogue, the Speedy Rail C 48 and Speedy Rail 35 systems enable a life time of more than 80.000 km. The life can be lower due to excessive presence of dust or pollutants.
<table>
<thead>
<tr>
<th>Profile type and code N°</th>
<th>Simple profiles mechanical and specifications</th>
<th>Surface quadratic moment I (X) mm4</th>
<th>Surface quadratic moment I (Y) mm4</th>
<th>Section modulus W (X) mm³:</th>
<th>Section modulus W (Y) mm³:</th>
<th>Section mm²</th>
<th>Distance d mm: (Roller contact axis)</th>
<th>Linear mass t kg/mt</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR 35 SIMP - T SIMP - F</td>
<td><img src="image1" alt="Profile Image" /></td>
<td>17.779</td>
<td>3.665</td>
<td>1016</td>
<td>118</td>
<td>203</td>
<td>/</td>
<td>0.60</td>
</tr>
<tr>
<td>SR C 48 CR48 - D CR48 - T CR48 - F</td>
<td><img src="image2" alt="Profile Image" /></td>
<td>152.026</td>
<td>36.823</td>
<td>6334</td>
<td>2045</td>
<td>526</td>
<td>28.26</td>
<td>1.42</td>
</tr>
<tr>
<td>SR Mini (60) SR060 - T SR060 - F</td>
<td><img src="image3" alt="Profile Image" /></td>
<td>138.600</td>
<td>18.000</td>
<td>4.620</td>
<td>1.800</td>
<td>470</td>
<td>29</td>
<td>1.27</td>
</tr>
<tr>
<td>SR Middle (90) SR090 - T SR090 - F</td>
<td><img src="image4" alt="Profile Image" /></td>
<td>630.000</td>
<td>76.500</td>
<td>14.250</td>
<td>5.170</td>
<td>965</td>
<td>39.6</td>
<td>2.6</td>
</tr>
<tr>
<td>SR Standard (120) SR120 - T SR120 - F</td>
<td><img src="image5" alt="Profile Image" /></td>
<td>2.138.988</td>
<td>259.785</td>
<td>35.650</td>
<td>12.989</td>
<td>1.645</td>
<td>56.1</td>
<td>4.4</td>
</tr>
<tr>
<td>SR Wide Body (180) SR180 - T SR180 - F</td>
<td><img src="image6" alt="Profile Image" /></td>
<td>10.291.100</td>
<td>1.278.700</td>
<td>114.345</td>
<td>42.620</td>
<td>3.730</td>
<td>95.7</td>
<td>10.2</td>
</tr>
<tr>
<td>SR Super Wide body (Speedy Rail 250) SR250 - T SR250 - F</td>
<td><img src="image7" alt="Profile Image" /></td>
<td>27.345.460</td>
<td>4.120.150</td>
<td>218.760</td>
<td>103.000</td>
<td>5.609</td>
<td>113.95</td>
<td>15.2</td>
</tr>
</tbody>
</table>

Tab. 28
Loads on a 4 'V' rollers trolley

Rollers load with force 'P' applied on the rail axle

\[ F = P \cdot \left( \frac{1}{2 \sqrt{2}} \right) \text{ (N)} \]

\[ F_r = F_a = F \cdot \left( \frac{1}{\sqrt{2}} \right) \text{ (N)} \]

P, P₁ = Applied forces (N)

F₉ = Radial load (N)

F₄ = Axial load (N)

Rollers load with 'P₁' force applied at 'L' distance (mm) from rail centerline

\[ F = P₁ \cdot \left( \frac{1}{2 \sqrt{2}} \right) \text{ (N)} \]

\[ F_r = \frac{P_1 \cdot L}{2 \cdot d} \text{ (N)} \]

\[ F_a = \frac{F + F_1}{\sqrt{2}} \text{ (N)} \]

P, P₁ = Applied forces (N)

F₉ = Radial load (N)

F₄ = Axial load (N)

Important: the load on most loaded rollers must be, for each roller type, less or equal to the corresponding rated load on the catalogue.
Fig. 161

F' = F'' = \frac{F}{\sqrt{2}}

A, B  Concentric rollers
C, D  Eccentric rollers
P, P_1  = Applied forces (N)
F_r  = Radial load (N)
F_a  = Axial load (N)
Rollers load with force ‘P’ applied on the rail axle

\[ F_r = \frac{P}{2} \text{ (N)} \]
\[ F_a = 0 \text{ (N)} \]

A, B  Concentric rollers
C, D  Eccentric rollers
P, P_1  = Applied forces (N)
F_r  = Radial load (N)
F_a  = Axial load (N)

Fig. 163

Rollers load with ‘P,’ force applied at ‘L’ Distance (mm) from rail centerline

\[ F = P_1 \cdot \frac{1}{2 \sqrt{2}} \text{ (N)} \]
\[ F_1 = \frac{P_1 \cdot L}{2 \cdot d} \text{ (N)} \]
\[ F_r = \sqrt{2} F + \frac{F_1}{\sqrt{2}} \text{ (N)} \]
\[ F_a = \frac{F_1}{\sqrt{2}} \text{ (N)} \]

A, B  Concentric rollers
C, D  Eccentric rollers
P, P_1  = Applied forces (N)
F_r  = Radial load (N)
F_a  = Axial load (N)

Fig. 164

**Important:** the load on most loaded rollers must be, for each roller type, less or equal to the corresponding rated load on the catalogue.
Trolley on single rail horizontal

The rollers with concentric sleeve are mounted where there is the highest load and the ones with eccentric sleeve on the opposite end.

All ‘F’ values must include the dynamic component obtained by:
Inertia force = mass (kg) x acceleration (mt/s²).

Roller-guide load verification

\[
\begin{align*}
F_{\text{Ass}} & = \frac{F_x}{4} + \frac{F_x \cdot X + F_y \cdot Y}{2 \cdot L} + \frac{F_y \cdot Y + F_z \cdot Z}{2 \cdot d \cdot 1.41} \\
F_{\text{Rad}} & = \frac{F_x}{4} + \frac{F_x \cdot X - F_z \cdot Z}{L} + \frac{F_y \cdot Y + F_z \cdot Z}{2 \cdot d \cdot 1.41}
\end{align*}
\]

Important: the load on most loaded rollers must be, for each roller type, less or equal to the corresponding rated load on the catalogue.
When assembling lines with parallel rail and long strokes it would be wise to use axially-free roller assemblies on one of the rails in order to withstand minor misalignments due either to assembly or maintenance errors.

All ‘F’ values must include the dynamic component obtained by: Inertia Force = mass (kg) x acceleration (mt/s²).

Roller-guide load verification

\[
F_{\text{Rad}} = \frac{F_2}{4} + \frac{F_x \cdot Z + F_y \cdot X}{2 \cdot L}
\]

Important: the load on most loaded rollers must be, for each roller type, less or equal to the corresponding rated load on the catalogue.
Loads on a 4 'V' rollers vertical trolley

Trolley on single vertical rail

The rollers with concentric sleeve are mounted where there is the highest load and the ones with eccentric sleeve on the opposite end.

All 'F' values must include the dynamic component obtained by:

Inertia Force = mass (kg) x acceleration (mt/s²).

Roller-guide load verification

\[
\begin{align*}
F_{\text{Ass}} &= \frac{F_y}{4} + \frac{F_z \cdot Z + F_y \cdot Y_1}{2 \cdot L} + \frac{F_x \cdot X - F_y \cdot Y}{2 \cdot d \cdot 1.41} \\
F_{\text{Rad}} &= \frac{F_y}{4} + \frac{F_x}{2} + \frac{F_z \cdot Z + F_y \cdot Y - F_y \cdot X}{2 \cdot L} + \frac{F_y}{4} + \frac{F_x}{2}
\end{align*}
\]

Important: the load on most loaded rollers must be, for each roller type, less or equal to the corresponding rated load on the catalogue.
Cylindrical roller loads

Rollers load with ‘P’ force applied on the rail axle

\[
F = P \cdot \left( \frac{1}{2 \sqrt{2}} \right) \text{ (N)}
\]

\[
F_i = 0 \quad \text{(N)}
\]

\[
F_r = F \quad \text{(N)}
\]

\[
P, P_1 = \text{Applied forces (N)}
\]

\[
F_r = \text{Radial load (N)}
\]

Fig. 171

Rollers load with ‘\(P_1\)’ force applied at ‘L’ distance (mm) from rail centerline

\[
F = P_1 \cdot \left( \frac{1}{2 \sqrt{2}} \right) \text{ (N)}
\]

\[
F_i = \frac{P_1 \cdot L}{2 \cdot d} \text{ (N)}
\]

\[
F_r = F + F_i \quad \text{(N)}
\]

\[
P, P_1 = \text{Applied forces (N)}
\]

\[
F_r = \text{Radial load (N)}
\]

Fig. 172

Important: the load on most loaded rollers must be, for each roller type, less or equal to the corresponding rated load on the catalogue.
Rollers load with 'P' force applied on the rail axle

\[
F = P \cdot \left( \frac{1}{2\sqrt{2}} \right) \text{ (N)} \quad F_{1} = 0 \text{ (N)} \quad F_{r} = F \text{ (N)} \quad P, P_{1} = \text{Applied forces (N)} \quad F_{r} = \text{Radial load (N)}
\]

Fig. 175

Rollers load with 'P' force applied at 'L' distance (mm) from rail centerline

\[
F = P \cdot \left( \frac{1}{2\sqrt{2}} \right) \text{ (N)} \quad F_{1} = \frac{P \cdot L}{2 \cdot d} \text{ (N)} \quad F_{r} = F + F_{1} \text{ (N)} \quad P, P_{1} = \text{Applied forces (N)} \quad F_{r} = \text{Radial load (N)}
\]

Fig. 176

**Important**: the load on most loaded rollers must be, for each roller type, less or equal to the corresponding rated load on the catalogue.
User suggestions

When and how to use speedy rail:
When a linear transfer system requires one or more of the following features:
- Lightweight
- Quiet
- Resistant to dust and chemical agents
- Easy to assemble
- Interchangeable

How:
The Speedy Rail® beam moves within fixed roller assemblies.
The lightness of the beam offers power and energy cost-savings, increasing the acceleration and speed. Side arm and/or manipulators can be fitted on the moving beam.

The Speedy Rail® beam is static and the roller assemblies, connected to a frame, are moving. Either with a static or moving beam, the movement can be realized through several means such as rack-pivot coupling, belts, chain, pneumatic or hydraulic cylinder. For preassembled modular units will you please refer to the catalogue of Rollon modules and portals.

Calculations data:
Important calculation factors to consider:
1) Maximum beam deflection under the load action
2) Maximum roller stress

1) Elastic deflection
Usually in a transfer system the deformations derived from elastic deflection are not a disturbing element.

2) Roller stress
Considering a roller assembly with two cylindric plastic compound rollers, the maximum load on the highest stressed roller should not exceed 128 daN. With the following formula it’s possible to calculate the load on the most stressed roller.

\[ F = \frac{P}{d} + \frac{P}{\sqrt{2}} \]

If the value is more than 128 daN, it will be necessary to provide either more supports or only one self-aligning roller assembly with 8 - 10 or 12 rollers, so than the "F" value, divided by the number of rollers on the specified point of application will be equal or less than 128 daN.

Compared to steel beams and roller assemblies, the Speedy Rail® surface treatment and plastic compound shells on the rollers allows the utilization of Rollon components in high speed and high accelerations systems. These benefits remove typical damages due to wear normally present in metal to metal sliding situations. When building a system with one single segment of Speedy Rail® section, it is possible to slightly pre-load the rollers.

Do not pre-load rollers on a system with a rail composed of 2 or more segments.
Power required to drive a trolley or bar

The following calculations are true in a system without overloads generated either by misalignment or an incorrect assembly. The following sliding friction factors are approximate with excess.

### Terminology and dimensional units

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M [kg]</td>
<td>moving mass</td>
</tr>
<tr>
<td>( n )</td>
<td>number of moving rollers</td>
</tr>
<tr>
<td>( C_r = 100 \text{ N}\text{mm} )</td>
<td>internal max resisting torque for each roller</td>
</tr>
<tr>
<td>( a \text{ [m/s}\text{²]} )</td>
<td>moving mass acceleration</td>
</tr>
<tr>
<td>( g \text{ [m/s}\text{²]} )</td>
<td>gravity acceleration</td>
</tr>
<tr>
<td>( f_{cc} = 0.05 )</td>
<td>drive resisting coefficient of plastic compound rollers</td>
</tr>
<tr>
<td>( f_{vc} = 0.065 )</td>
<td>drive resisting coefficient of 'V' shaped plastic compound rollers</td>
</tr>
<tr>
<td>( F \text{ [N]} )</td>
<td>drive resisting force</td>
</tr>
<tr>
<td>( V \text{ [m/s]} )</td>
<td>max traverse speed</td>
</tr>
<tr>
<td>( N \text{ [W]} )</td>
<td>power</td>
</tr>
<tr>
<td>( d \text{ [mm]} )</td>
<td>average roller diameter</td>
</tr>
</tbody>
</table>

### Calculations

**traverse**

resisting force: \[ F = M a + M g f + \frac{2 n_l C_r}{d} \]

max power: \[ N = F \cdot V \]

**vertical lift**

resisting force: \[ F = M a + M g (1 + f) + \frac{2 n_l C_r}{d} \]

max power: \[ N = F \cdot V \]
Thermal expansion of profiles, simple and compound

All profiles specifications are located on pages SR-74.

**Terminology and dimensional units**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>$K_1$</td>
<td>light alloy linear thermal expansion coefficient</td>
</tr>
<tr>
<td>$D_t$</td>
<td>temperature variation in comparison with the assembling</td>
</tr>
<tr>
<td>$A_1$</td>
<td>light alloy profile section</td>
</tr>
<tr>
<td>$L$</td>
<td>rail length</td>
</tr>
<tr>
<td>$D_1$</td>
<td>rail length variation</td>
</tr>
</tbody>
</table>

**Calculations**

light alloy rails

\[
D_1 = K_1 \times D_t \times L
\]
Rails for sliding doors
Glass sheet manipulator
Automatic press feeder
Speedy Rail SR180 and plastic compound cylindric rollers in environment with strong presence of impurities
## General index

### Tables and general informations

<table>
<thead>
<tr>
<th>Code</th>
<th>Pag</th>
<th>Description</th>
<th>Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>\</td>
<td>SR-2</td>
<td>Introduction</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-5</td>
<td>Conversion tables measurement units</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-6</td>
<td>Speedy Rail  35</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-10</td>
<td>Speedy Rail C 48</td>
<td>\s</td>
</tr>
<tr>
<td>\</td>
<td>SR-14</td>
<td>Speedy Rail Mini SR60 - exploded axonometric view</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-21</td>
<td>Speedy Rail Middle SR90 - exploded axonometric view</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-27</td>
<td>Speedy Rail Standard SR120 - exploded axonometric view</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-54</td>
<td>Speedy Rail Wide Body SR180 - exploded axonometric view</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-63</td>
<td>Speedy Rail Super Wide Body SR 250 - exploded axonometric view</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-68</td>
<td>Technical detail</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-72</td>
<td>Summary table Speedy Rail guides</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-73</td>
<td>Loads calculation on 'V'-shaped rollers - general scheme</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-79</td>
<td>Cylindrical roller loads</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-81</td>
<td>User suggestions</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-82</td>
<td>Calculation of power required to drive a trolley and/or a bar</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-83</td>
<td>Thermal expansion of profiles</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-84</td>
<td>Application example: Rails for sliding doors</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-85</td>
<td>Application example: Glass sheet manipulator</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-86</td>
<td>Application example: Automatic press feeder</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-87</td>
<td>Application example: Automated oven feeder - tile production</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-88</td>
<td>Speedy Rail 180 in environment with strong presence of impurities</td>
<td>\</td>
</tr>
<tr>
<td>\</td>
<td>SR-89</td>
<td>General index</td>
<td>\</td>
</tr>
</tbody>
</table>

### Light alloy guides

<p>| SIMP-T | SR-8 | Speedy Rail 35 guide | \ |
| SIMP-F | SR-8 | Speedy Rail 35 guide with drilled ends | \ |
| CR48-T | SR-10 | Speedy Rail C48 guide | \ |
| CR48-F/CR48-D | SR-10 | Speedy Rail C 48 guide drilled | \ |
| SR060 - T | SR-16 | &quot;Mini Speedy Rail&quot; SR60 guide | \ |
| SR060 - F | SR-16 | &quot;Mini Speedy Rail&quot; SR60 guide with drilled ends | \ |
| SR090 - T | SR-23 | &quot;Middle Speedy Rail&quot; SR90 guide | \ |
| SR090 - F | SR-23 | Middle Speedy Rail with drilled ends | \ |
| SR120 - T | SR-29 | &quot;Standard Speedy Rail&quot; SR120 guide | \ |
| SR120 - F | SR-29 | &quot;Standard Speedy Rail&quot; SR120 with drilled ends | \ |
| SR180 - T | SR-56 | Speedy Rail 'Wide Body' SR180 guide | \ |
| SR180 - F | SR-56 | Speedy Rail 'Wide Body' SR180 guide with drilled ends | \ |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Pag</th>
<th>Description</th>
<th>Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR250 - T</td>
<td>SR-65</td>
<td>Speedy Rail ‘Super Wide Body’ SR250 guide</td>
<td>\</td>
</tr>
<tr>
<td>SR250 - F</td>
<td>SR-65</td>
<td>Speedy Rail ‘Super Wide Body’ SR250 guide with drilled ends</td>
<td>\</td>
</tr>
<tr>
<td>ROL-C062VC-BA</td>
<td>SR-25</td>
<td>Concentric roller axially free</td>
<td>SR90</td>
</tr>
<tr>
<td>ROL-E062VC-BA</td>
<td>SR-25</td>
<td>Eccentric roller axially free</td>
<td>SR90</td>
</tr>
<tr>
<td>ROL-C032VC-B</td>
<td>SR-18</td>
<td>Light concentric 'V'-Shaped roller</td>
<td>SR60</td>
</tr>
<tr>
<td>ROL-E032VC-B</td>
<td>SR-18</td>
<td>Light eccentric 'V'-Shaped roller</td>
<td>SR60</td>
</tr>
<tr>
<td>ROL-C090VC-BH</td>
<td>SR-37</td>
<td>Heavy duty concentric 'V' roller</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>ROL-E090VC-BH</td>
<td>SR-37</td>
<td>Heavy duty eccentric 'V' roller</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>ROL-C062VC-BH</td>
<td>SR-25</td>
<td>Concentric roller heavy duty</td>
<td>SR90</td>
</tr>
<tr>
<td>ROL-E062VC-BH</td>
<td>SR-25</td>
<td>Eccentric roller heavy duty</td>
<td>SR90</td>
</tr>
<tr>
<td>ROL-C080VC-BR</td>
<td>SR-34</td>
<td>High stiffness concentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-E080VC-BR</td>
<td>SR-34</td>
<td>High stiffness eccentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-C050VC-B</td>
<td>SR-19</td>
<td>Plastic compound concentric roller</td>
<td>SR60</td>
</tr>
<tr>
<td>ROL-E050VC-B</td>
<td>SR-19</td>
<td>Plastic compound eccentric roller</td>
<td>SR60</td>
</tr>
<tr>
<td>ROL-C080VC-BVA</td>
<td>SR-34</td>
<td>Concentric roller - axially free</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-E080VC-BVA</td>
<td>SR-34</td>
<td>Eccentric roller - axially free</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-C080VC-B</td>
<td>SR-34</td>
<td>Concentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-E080VC-B</td>
<td>SR-34</td>
<td>Eccentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-C062VC-B</td>
<td>SR-25</td>
<td>Concentric 'V'-shaped roller</td>
<td>SR90</td>
</tr>
<tr>
<td>ROL-E062VC-B</td>
<td>SR-25</td>
<td>Eccentric 'V'-shaped roller</td>
<td>SR90</td>
</tr>
<tr>
<td>ROL-C090VC-BAH</td>
<td>SR-37</td>
<td>Heavy duty concentric 'V' roller - axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>ROL-E090VC-BAH</td>
<td>SR-37</td>
<td>Heavy duty eccentric 'V' roller - axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>ROL-C031WC-B</td>
<td>SR-12</td>
<td>Axially constrained eccentric roller</td>
<td>SR48</td>
</tr>
<tr>
<td>ROL-E031WC-B</td>
<td>SR-12</td>
<td>Axially constrained concentric roller</td>
<td>SR48</td>
</tr>
<tr>
<td>ROL-C031VC-XA</td>
<td>SR-12</td>
<td>Axially free concentric roller</td>
<td>SR48</td>
</tr>
<tr>
<td>ROL-E031VC-XA</td>
<td>SR-12</td>
<td>Axially free eccentric roller</td>
<td>SR48</td>
</tr>
<tr>
<td>ROL-C030CC-B</td>
<td>SR-9</td>
<td>Concentric contrast roller</td>
<td>SR35</td>
</tr>
<tr>
<td>ROL-E030CC-B</td>
<td>SR-9</td>
<td>Eccentric contrast roller</td>
<td>SR35</td>
</tr>
<tr>
<td>ROL-C034VC-B</td>
<td>SR-8</td>
<td>Concentric roller</td>
<td>SR35</td>
</tr>
<tr>
<td>ROL-E034VC-B</td>
<td>SR-8</td>
<td>Eccentric roller</td>
<td>SR35</td>
</tr>
<tr>
<td>ROL-C090VC-BS</td>
<td>SR-38</td>
<td>Protected concentric 'V' roller for heavy duties</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>ROL-E090VC-BS</td>
<td>SR-38</td>
<td>Protected eccentric 'V' roller for heavy duties</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>ROL-C052CCC-BP</td>
<td>SR-37</td>
<td>Eccentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-E052CCC-BP</td>
<td>SR-37</td>
<td>Concentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-C052CCC-BV</td>
<td>SR-37</td>
<td>Eccentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-C052CCC-BV</td>
<td>SR-37</td>
<td>Concentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-C052CCL-BV</td>
<td>SR-36</td>
<td>Concentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-E052CCL-BV</td>
<td>SR-36</td>
<td>Eccentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-C052CCL-BP</td>
<td>SR-36</td>
<td>Concentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>ROL-E052CCL-BP</td>
<td>SR-36</td>
<td>Eccentric roller</td>
<td>SR120</td>
</tr>
<tr>
<td>Code</td>
<td>Pag</td>
<td>Description</td>
<td>Profile</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----</td>
<td>----------------------------------------------------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>ROL-C04CC-BP</td>
<td>SR-36</td>
<td>Concentric roller radial load - Periodical lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>ROL-C04CC-BV</td>
<td>SR-36</td>
<td>Concentric roller radial load - Lifetime lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Supporti a rotelle</strong></td>
<td></td>
</tr>
<tr>
<td>55.0222</td>
<td>SR-43</td>
<td>8 Rollers blindo beam roller assembly</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0323</td>
<td>SR-41</td>
<td>Roller assembly with backing plate 280x150</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0324</td>
<td>SR-41</td>
<td>Roller assembly with backing plate 235.5X80</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0325</td>
<td>SR-40</td>
<td>Light alloy body roller assembly with side holes</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.0372</td>
<td>SR-18</td>
<td>Roller assembly with 3 rollers</td>
<td>SR60</td>
</tr>
<tr>
<td>55.0375</td>
<td>SR-19</td>
<td>Roller assembly with 4 rollers</td>
<td>SR60</td>
</tr>
<tr>
<td>55.0411</td>
<td>SR-42</td>
<td>Narrow base blindo beam roller assembly</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0433</td>
<td>SR-40</td>
<td>Light alloy body roller assembly with side mounting holes</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.0472</td>
<td>SR-42</td>
<td>Wide base blindo beam roller assembly</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0513</td>
<td>SR-59</td>
<td>Roller assembly with backing plate 336x150</td>
<td>SR180</td>
</tr>
<tr>
<td>55.0514</td>
<td>SR-59</td>
<td>Roller assembly with backing plate 381.5x80</td>
<td>SR180</td>
</tr>
<tr>
<td>55.0557</td>
<td>SR-35</td>
<td>Light weight roller assembly with 4 rollers</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0558</td>
<td>SR-35</td>
<td>Roller assembly with 4 high stiffness rollers</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0604</td>
<td>SR-39</td>
<td>Compact roller assembly</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.0605</td>
<td>SR-19</td>
<td>Roller assembly with 3 rollers</td>
<td>SR60</td>
</tr>
<tr>
<td>55.0606</td>
<td>SR-20</td>
<td>Roller assembly with 4 rollers</td>
<td>SR60</td>
</tr>
<tr>
<td>55.0665</td>
<td>SR-26</td>
<td>Roller assembly with 3 rollers</td>
<td>SR90</td>
</tr>
<tr>
<td>55.0666</td>
<td>SR-26</td>
<td>Roller assembly with 4 rollers</td>
<td>SR90</td>
</tr>
<tr>
<td>55.0711</td>
<td>SR-42</td>
<td>Wide base roller assembly</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0713</td>
<td>SR-59</td>
<td>Roller assembly with backing plate 336x150</td>
<td>SR180</td>
</tr>
<tr>
<td>55.0723</td>
<td>SR-41</td>
<td>Roller assembly with backing plate 280x150</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0724</td>
<td>SR-41</td>
<td>Roller assembly with backing plate 235.5X80</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0725</td>
<td>SR-40</td>
<td>Light alloy body roller assembly with mounting holes on short sides</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.0733</td>
<td>SR-40</td>
<td>Light alloy body roller assembly with mounting holes on long sides</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.0740</td>
<td>SR-59</td>
<td>Roller assembly with backing plate 381.5x80</td>
<td>SR180</td>
</tr>
<tr>
<td>55.0772</td>
<td>SR-42</td>
<td>Wide base blindo beam roller assembly</td>
<td>SR120</td>
</tr>
<tr>
<td>55.0794</td>
<td>SR-39</td>
<td>Compact roller assembly</td>
<td>SR120/SR180</td>
</tr>
<tr>
<td>55.0808</td>
<td>SR-67</td>
<td>Roller assembly with 4 V-shaped rollers</td>
<td>SR 250</td>
</tr>
<tr>
<td>55.1060</td>
<td>SR-13</td>
<td>Roller assembly with two concentric rollers and one eccentric roller</td>
<td>SRC48</td>
</tr>
<tr>
<td>55.1061</td>
<td>SR-13</td>
<td>Roller assembly with one concentric and one eccentric roller</td>
<td>SRC48</td>
</tr>
<tr>
<td>55.1062</td>
<td>SR-12</td>
<td>Roller assembly with one conc. roller</td>
<td>SRC48</td>
</tr>
<tr>
<td>55.1064</td>
<td>SR-13</td>
<td>Roller assembly with 4 rollers, 3 conc. and 1 ecc.</td>
<td>SRC48</td>
</tr>
<tr>
<td>55.1065</td>
<td>SR-12</td>
<td>Roller assembly with one ecc. axial free roller</td>
<td>SRC48</td>
</tr>
<tr>
<td>55.1066</td>
<td>SR-12</td>
<td>Roller assembly with one conc. axial free roller</td>
<td>SRC48</td>
</tr>
<tr>
<td>55.1067</td>
<td>SR-12</td>
<td>Roller assembly with one ecc. roller</td>
<td>SRC48</td>
</tr>
<tr>
<td>55.1135</td>
<td>SR-46</td>
<td>Fixed 5 concentric rollers assembly</td>
<td>SR120</td>
</tr>
<tr>
<td>55.1136</td>
<td>SR-46</td>
<td>Fixed 5 roller assembly, with 2 eccentric rollers for auto backlash retrival</td>
<td>SR120</td>
</tr>
<tr>
<td>55.1143</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot ecc. - periodical lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>Code</td>
<td>Pag</td>
<td>Description</td>
<td>Profile</td>
</tr>
<tr>
<td>-------</td>
<td>-----</td>
<td>------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>55.1144</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot conc. - periodical lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1145</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot ecc. - lifetime lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1146</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot conc. - lifetime lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1147</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot ecc. - periodical lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1148</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot conc. - periodical lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1149</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot ecc. - lifetime lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1150</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot conc. - lifetime lubrication</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1180</td>
<td>SR-58</td>
<td>Heavy duty roller assembly with 4 rollers</td>
<td>SR180</td>
</tr>
<tr>
<td>55.1350</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - long pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1351</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - long pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1354</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - short pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1355</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - short pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1358</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - short pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1359</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - short pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1361</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - short pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1363</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - long pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1364</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - short pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1365</td>
<td>SR-4S</td>
<td>Floating roller assembly with 4 rollers - long pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1366</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - short pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1367</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - short pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1368</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - long pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1369</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - long pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1370</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - short pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1371</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - short pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1372</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - long pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1373</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - long pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1380</td>
<td>SR-60</td>
<td>Complete pairing floating assembly - short pivot</td>
<td>SR180</td>
</tr>
<tr>
<td>55.1381</td>
<td>SR-60</td>
<td>Complete pairing floating assembly - short pivot</td>
<td>SR180</td>
</tr>
<tr>
<td>55.1382</td>
<td>SR-60</td>
<td>Complete pairing floating assembly - long pivot</td>
<td>SR180</td>
</tr>
<tr>
<td>55.1383</td>
<td>SR-60</td>
<td>Complete pairing floating assembly - long pivot</td>
<td>SR180</td>
</tr>
<tr>
<td>55.1419</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - long pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1420</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - long pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1421</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - long pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1422</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - long pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1423</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1424</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1425</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1426</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1550</td>
<td>SR-38</td>
<td>2 Rollers light full-block assembly</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1555</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1556</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1565</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers ecc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>Code</td>
<td>Pag</td>
<td>Description</td>
<td>Profile</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>-------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>55.1566</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers conc.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.1570</td>
<td>SR-38</td>
<td>Light alloy rollers assembly with 2 rollers - Lifetime lubricated.</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3143</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot ecc. - periodical lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3144</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot conc. - periodical lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3145</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot ecc. - lifetime lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3146</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - short pivot conc. - lifetime lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3147</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot ecc. - periodical lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3148</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot conc. - periodical lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3149</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot ecc. - lifetime lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3150</td>
<td>SR-49</td>
<td>Floating roller assembly with 8 rollers - long pivot conc. - lifetime lub. axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3350</td>
<td>SR-45</td>
<td>Floating roller assembly with 4 rollers - long pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3351</td>
<td>SR-45</td>
<td>Floating roller assembly with 4 rollers - long pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3361</td>
<td>SR-45</td>
<td>Floating roller assembly with 4 rollers - short pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3364</td>
<td>SR-45</td>
<td>Floating roller assembly with 4 rollers - short pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3365</td>
<td>SR-45</td>
<td>Floating roller assembly with 4 rollers - long pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3366</td>
<td>SR-45</td>
<td>Floating roller assembly with 4 rollers - short pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3367</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - long pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3368</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - short pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3369</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - long pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3370</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - short pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3371</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - short pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3372</td>
<td>SR-48</td>
<td>Floating roller assembly with 6 rollers - long pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3419</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - long pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3420</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3421</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - long pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3422</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - long pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3423</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3424</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3425</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3426</td>
<td>SR-47</td>
<td>Floating roller assembly with 6 rollers - short pivot conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3553</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3554</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3563</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers ecc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>55.3564</td>
<td>SR-44</td>
<td>Floating roller assembly with 4 rollers conc. with axially free</td>
<td>SR120/SR180/SR250</td>
</tr>
</tbody>
</table>

**Dovetails and inserts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Pag</th>
<th>Description</th>
<th>Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.0462</td>
<td>SR-17</td>
<td>Steel dovetail 2 holes M6 L=50 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0469</td>
<td>SR-31</td>
<td>Steel dovetail 2 holes M12 L=100 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0470</td>
<td>SR-31</td>
<td>Steel dovetail 6 holes M12 L=300 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0472</td>
<td>SR-31</td>
<td>Steel dovetail 2 holes M12 L=200 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>Code</td>
<td>Page</td>
<td>Description</td>
<td>Profile</td>
</tr>
<tr>
<td>---------</td>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>411.0503</td>
<td>SR-31</td>
<td>Steel dovetail 2 holes M12 L=70 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0588</td>
<td>SR-31</td>
<td>Steel dovetail 3 holes M12 L=150 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0675</td>
<td>SR-31</td>
<td>Steel dovetail 2 holes M8 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0732</td>
<td>SR-17</td>
<td>Steel dovetail 1 hole M6 L=20 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0745</td>
<td>SR-31</td>
<td>Steel dovetail 1 hole M12 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0754</td>
<td>SR-17</td>
<td>Steel dovetail 3 holes M6 L=80 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0768</td>
<td>SR-17</td>
<td>Steel dovetail 2 holes M6 L=60 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0769</td>
<td>SR-17</td>
<td>Steel dovetail 6 holes M6 L=200 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0771</td>
<td>SR-17</td>
<td>Steel dovetail 2 holes M6 L=150 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0845</td>
<td>SR-31</td>
<td>Steel dovetail quick front insertion 1 hole M12 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0855</td>
<td>SR-24</td>
<td>Steel dovetail quick front insertion 1 hole M8 L=29 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.0888</td>
<td>SR-32</td>
<td>Steel dovetail without step 3 holes M12 L=150 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0970</td>
<td>SR-31</td>
<td>Steel dovetail 6 holes M12 L=300 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1025</td>
<td>SR-24</td>
<td>Steel dovetail 1 hole M4 L=50mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1045</td>
<td>SR-24</td>
<td>Steel dovetail 1 hole M8 L=50 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1047</td>
<td>SR-24</td>
<td>Steel dovetail 1 hole M6 L=50 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1046</td>
<td>SR-24</td>
<td>Steel dovetail without step 3 holes M8 L=50 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1069</td>
<td>SR-24</td>
<td>Steel dovetail 2 holes M8 L=100 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1070</td>
<td>SR-24</td>
<td>Steel dovetail 6 holes M8 L=300 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1072</td>
<td>SR-24</td>
<td>Steel dovetail 4 holes M8 L=200 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1088</td>
<td>SR-24</td>
<td>Steel dovetail 3 holes M8 L=150 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1111</td>
<td>SR-31</td>
<td>Steel dovetail 1 hole M8 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1112</td>
<td>SR-31</td>
<td>Steel dovetail 2 holes M8 L=100 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1113</td>
<td>SR-31</td>
<td>Steel dovetail 3 holes M8 L=150 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1117</td>
<td>SR-31</td>
<td>Steel dovetail 1 hole M10 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1119</td>
<td>SR-31</td>
<td>Steel dovetail 2 holes M10 L=100 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1120</td>
<td>SR-31</td>
<td>Steel dovetail 3 holes M10 L=150 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1174</td>
<td>SR-32</td>
<td>Steel dovetail quick front insertion without step 1 hole M8 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1178</td>
<td>SR-31</td>
<td>Steel dovetail quick front insertion 1 hole M10 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1185</td>
<td>SR-32</td>
<td>Steel dovetail without step 1 hole M12 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1186</td>
<td>SR-32</td>
<td>Steel dovetail without step 1 hole M10 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1349</td>
<td>SR-56</td>
<td>Zinc plated steel insert 1 hole M4 L=16 mm, with spring loaded ball</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td>411.1351</td>
<td>SR-56</td>
<td>Zinc plated steel insert 1 hole M5 L=16 mm, with spring loaded ball</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td>411.1352</td>
<td>SR-56</td>
<td>Zinc plated steel insert 1 hole M6 L=16 mm, with spring loaded ball</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td>411.1353</td>
<td>SR-56</td>
<td>Zinc plated steel insert 1 hole M8 L=16 mm, with spring loaded ball</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td>411.1675</td>
<td>SR-32</td>
<td>Steel dovetail without step 2 holes M8 L=50 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1732</td>
<td>SR-17</td>
<td>Steel dovetail 1 hole M4 L=20 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.2533</td>
<td>SR-56</td>
<td>9 holes steel insert M5 L=496 mm</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td>411.2534</td>
<td>SR-56</td>
<td>9 holes steel insert M4 L=496 mm</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td>411.2732</td>
<td>SR-17</td>
<td>Steel dovetail 1 hole M5 L=20 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.2733</td>
<td>SR-17</td>
<td>Steel dovetail 9 holes M5 L=496 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.2736</td>
<td>SR-17</td>
<td>Dovetail quick front insertion 1 hole M6</td>
<td>SR60</td>
</tr>
<tr>
<td>Code</td>
<td>Pag</td>
<td>Description</td>
<td>Profile</td>
</tr>
<tr>
<td>----------</td>
<td>------</td>
<td>-----------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>411.3532</td>
<td>SR-17</td>
<td>Steel dovetail 1 hole M8 L=20 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.3633</td>
<td>SR-56</td>
<td>9 holes steel insert M6 L=496 mm</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Fishplates</strong></td>
<td></td>
</tr>
<tr>
<td>411.0567</td>
<td>SR-33</td>
<td>Fishplate for drive head L=130 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0570</td>
<td>SR-33</td>
<td>Fishplate for side-arm attachment L=200 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0572</td>
<td>SR-33</td>
<td>Fishplate for end to end joining L=300 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0573</td>
<td>SR-33</td>
<td>Fishplate for end to end joining L=300 mm countersuk holes</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0582</td>
<td>SR-58</td>
<td>Fishplate for roller assembly 55.1180</td>
<td>SR180</td>
</tr>
<tr>
<td>411.0463</td>
<td>SR-17</td>
<td>Light alloy fishplate</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0690</td>
<td>SR-33</td>
<td>Steel fishplate for end to end joining L=300 mm</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0735</td>
<td>SR-35</td>
<td>Fishplate for roller assemblies 55.0557 / 55.0558</td>
<td>SR120</td>
</tr>
<tr>
<td>411.0749</td>
<td>SR-19</td>
<td>Fishplate for roller assemblies 55.0605</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0750</td>
<td>SR-20</td>
<td>Fishplate for roller assemblies 55.0606</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0767</td>
<td>SR-16</td>
<td>Fishplate for drive head L=80 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0770</td>
<td>SR-18</td>
<td>Fishplate for side-arm attachment L=150 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0772</td>
<td>SR-17</td>
<td>Fishplate for drive head L=200 mm</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0824</td>
<td>SR-26</td>
<td>Fishplate for roller assemblies 55.0665</td>
<td>SR90</td>
</tr>
<tr>
<td>411.0825</td>
<td>SR-26</td>
<td>Fishplate for roller assemblies 55.0666</td>
<td>SR90</td>
</tr>
<tr>
<td>411.0866</td>
<td>SR-23</td>
<td>Fishplate for drive head L=130 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.0872</td>
<td>SR-24</td>
<td>Fishplates for end to end joining L=300 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.0913</td>
<td>SR-18</td>
<td>Fishplate for roller assemblies 55.0372</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0914</td>
<td>SR-19</td>
<td>Fishplate for roller assemblies 55.0375</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0958</td>
<td>SR-67</td>
<td>Light alloy fishplate for roller assemblies 55.0788, 55.0808</td>
<td>SR250</td>
</tr>
<tr>
<td>411.0960</td>
<td>SR-65</td>
<td>Steel fishplates for end to end joining L=300mm</td>
<td>SR250</td>
</tr>
<tr>
<td>411.1124</td>
<td>SR-24</td>
<td>Fishplate for side-arm attachment L=150 mm</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1041</td>
<td>SR-18</td>
<td>Plate for m² rack mounting</td>
<td>SR60</td>
</tr>
<tr>
<td>411.1155</td>
<td>SR-32</td>
<td>Fishplate for mod.3-4 rack mounting</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1179</td>
<td>SR-61</td>
<td>Fishplate for mod.2 Rack mounting</td>
<td>SR180/SR250</td>
</tr>
<tr>
<td>411.1226</td>
<td>SR-24</td>
<td>Steel plate for m² rack mounting m²</td>
<td>SR90</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Cremagliere</strong></td>
<td></td>
</tr>
<tr>
<td>411.1489</td>
<td>SR-52</td>
<td>Rack m2 Q10 L=998,82 straight toothed</td>
<td>\</td>
</tr>
<tr>
<td>411.1491</td>
<td>SR-52</td>
<td>Rack m2 Q10 L=2004,14 straight toothed</td>
<td>\</td>
</tr>
<tr>
<td>411.1499</td>
<td>SR-52</td>
<td>Rack m3 Q10 L=998,82 straight toothed</td>
<td>\</td>
</tr>
<tr>
<td>411.1501</td>
<td>SR-52</td>
<td>Rack m3 Q10 L=1997,84 straight toothed</td>
<td>\</td>
</tr>
<tr>
<td>411.1509</td>
<td>SR-52</td>
<td>Rack m4 Q10 L=1005,10 straight toothed</td>
<td>\</td>
</tr>
<tr>
<td>411.1511</td>
<td>SR-52</td>
<td>Rack m4 Q10 L=2010,42 straight toothed</td>
<td>\</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Componentistica</strong></td>
<td></td>
</tr>
<tr>
<td>411.0476</td>
<td>SR-30</td>
<td>Drive head</td>
<td>SR120</td>
</tr>
<tr>
<td>411.0610</td>
<td>SR-23</td>
<td>Bolt for drive head mount TE M6x55</td>
<td>SR90</td>
</tr>
<tr>
<td>411.0617</td>
<td>SR-30</td>
<td>Bolt for drive head mount TE M8x70</td>
<td>SR120</td>
</tr>
<tr>
<td>Code</td>
<td>Pag</td>
<td>Description</td>
<td>Profile</td>
</tr>
<tr>
<td>----------</td>
<td>-----</td>
<td>--------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>411.0685</td>
<td>SR-53</td>
<td>Scraper for floating and full-block assemblies</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0686</td>
<td>SR-53</td>
<td>Scraper for compact</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.0696</td>
<td>SR-57</td>
<td>Drive head</td>
<td>SR180</td>
</tr>
<tr>
<td>411.0739</td>
<td>SR-16</td>
<td>Drive head</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0744</td>
<td>SR-57</td>
<td>Bolt for drive head TE M8x90</td>
<td>SR180</td>
</tr>
<tr>
<td>411.0775</td>
<td>SR-16</td>
<td>M6 allen round head screw</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0776</td>
<td>SR-16</td>
<td>Drive head</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0818</td>
<td>SR-17</td>
<td>Bolt for drive head mount TE M5x40</td>
<td>SR60</td>
</tr>
<tr>
<td>411.0832</td>
<td>SR-61</td>
<td>Fishplate for drive head</td>
<td>SR180</td>
</tr>
<tr>
<td>411.0856</td>
<td>SR-23</td>
<td>Drive head</td>
<td>SR90</td>
</tr>
<tr>
<td>411.0858</td>
<td>SR-23</td>
<td>End cap</td>
<td>SR90</td>
</tr>
<tr>
<td>411.1015</td>
<td>SR-66</td>
<td>Drive head</td>
<td>SR 250</td>
</tr>
<tr>
<td>411.1261</td>
<td>SR-46</td>
<td>5 rollers assembly supports</td>
<td>SR120/SR180/SR250</td>
</tr>
<tr>
<td>411.1963</td>
<td>SR-66</td>
<td>End cap</td>
<td>SR 250</td>
</tr>
<tr>
<td>411.1964</td>
<td>SR-57</td>
<td>End cap</td>
<td>SR180</td>
</tr>
<tr>
<td>411.1740</td>
<td>SR-30</td>
<td>Alluminium alloy end cap</td>
<td>SR120</td>
</tr>
<tr>
<td>55047202</td>
<td>SR-53</td>
<td>Scraper for blindo beam roller assemblies</td>
<td>SR120</td>
</tr>
<tr>
<td>55.1000</td>
<td>SR-53</td>
<td>Sliding brush for speedy rail and steel rail</td>
<td>SR120/SR180/SR250</td>
</tr>
</tbody>
</table>
REQUEST FOR TECHNICAL CONSULTING
Rollon S.p.A. - Sede legale e operativa / Via Trieste 26, 20871 Vimercate (MB)

General data: 

Date: ................................................ Inquiry N°: ............................................................

Address: ..................................................................................................................................

Company: ......................................................................................................................................

PHONE: .........................................................................................................................................

Fax: ..................................................................................................................................................

Business field: ...................................................................................................................................

System in use: ....................................................................................................................................

Working enviroment: ☐ Dusty ☐ Hight temperature

☐ Chemicals ☐ Other

Positioning precision: ...........................................................................................................................

Working cycle: .....................................................................................................................................

Life expectancy: ..................................................................................................................................

Drive: ☐ Motor ☐ Asinchronous ☐ Brushless

☐ Actuator ☐ Pneumatic ☐ Hydraulic ☐ Other

<table>
<thead>
<tr>
<th></th>
<th>Axis X</th>
<th>Axis Y</th>
<th>Axis Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load</td>
<td>_______ N</td>
<td>_______ N</td>
<td>_______ N</td>
</tr>
<tr>
<td>Load position</td>
<td>_______ mm</td>
<td>_______ mm</td>
<td>_______ mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>_______ mm</td>
<td>_______ mm</td>
<td>_______ mm</td>
</tr>
<tr>
<td>Speed</td>
<td>_______ m/s</td>
<td>_______ m/s</td>
<td>_______ m/s</td>
</tr>
<tr>
<td>Max. Acceleration</td>
<td>_______ m/s²</td>
<td>_______ m/s²</td>
<td>_______ m/s²</td>
</tr>
<tr>
<td>Deceleration</td>
<td>_______ m/s²</td>
<td>_______ m/s²</td>
<td>_______ m/s²</td>
</tr>
</tbody>
</table>

Please enclose general drawing for application and specify loads with the position during working cycle, the above informations will allow is to provide the support request.
Follow us:

**EUROPE**

ROLLON S.p.A. - ITALY (Headquarters)
Via Trieste 26
I-20871 Vimercate (MB)
Phone: (+39) 039 62 59 1
www.rollon.it - infocom@rollon.it

ROLLON GmbH - GERMANY
Bonner Strasse 317-319
D-40589 Düsseldorf
Phone: (+49) 211 95 747 0
www.rollon.de - info@rollon.de

ROLLON S.p.A. - FRANCE
Les Jardins d’Eole, 2 allée des Séquoias
F-69760 Limonest
Phone: (+33) (0) 4 74 71 93 30
www.rollon.fr - infocom@rollon.fr

ROLLON Ltd - UK (Rep. Office)
The Works 6 West Street Olney
Buckinghamshire, United Kingdom, MK46 5 HR
Phone: +44 (0) 1234964024
www.rollon.uk.com - info@rollon.uk.com

ROLLON B.V. - NETHERLANDS
Ringbaan Zuid 8
6905 DB Zevenaar
Phone: (+31) 36 249 2300
www.rollon.nl - info@rollon.nl

ROLLON - SOUTH AMERICA (Rep. Office)
R. Joaquim Floriano, 397, 2o. andar
Itaim Bibi - 04534-011, São Paulo, BRASIL
Phone: +55 (11) 3198 3645
www.rollonbrasil.com.br - info@rollonbrasil.com

ROLLON S.A.R.L. - FRANCE
Les Jardins d’Eole, 2 allée des Séquoias
F-69760 Limonest
Phone: (+33) (0) 4 74 71 93 30
www.rollon.fr - infocom@rollon.fr

ROLLON Ltd - UK (Rep. Office)
The Works 6 West Street Olney
Buckinghamshire, United Kingdom, MK46 5 HR
Phone: +44 (0) 1234964024
www.rollon.uk.com - info@rollon.uk.com

ROLLON - JAPAN
3F Shiodome Building, 1-2-20 Kaigan, Minato-ku,
Tokyo 105-0022 Japan
Phone: +81 3 6721 8487
www.rollon.jp - info@rollon.jp

**AMERICA**

ROLLON Corporation - USA
101 Bilby Road, Suite B
Hackettstown, NJ 07840
Phone: +(1) 973 300 5482
www.rolloncorp.com - info@rolloncorp.com

ROLLON - SOUTH AMERICA (Rep. Office)
R. Joaquim Floriano, 397, 2o. andar
Itaim Bibi - 04534-011, São Paulo, BRASIL
Phone: +55 (11) 3198 3645
www.rollonbrasil.com.br - info@rollonbrasil.com

ROLLON India Pvt. Ltd. - INDIA
1st floor, Regus Gem Business Centre, 26/1
Hosur Road, Bommanahalli, Bangalore 560068
Phone: (+91) 80 67027066
www.rollonindia.in - info@rollonindia.in

**ASIA**

ROLLON Ltd - CHINA
No. 1155 Pang Jin Road,
China, Suzhou, 215200
Phone: +86 0512 6392 1625
www.rollon.cn.com - info@rollon.cn.com

ROLLON India Pvt. Ltd. - INDIA
1st floor, Regus Gem Business Centre, 26/1
Hosur Road, Bommanahalli, Bangalore 560068
Phone: (+91) 80 67027066
www.rollonindia.in - info@rollonindia.in

Consult the other ranges of products

Distributors for Australia & New Zealand
MOTION TECHNOLOGIES PTY LTD
24/22-30 Northumberland Road
Caringbah NSW 2229 Australia
Phone: (02) 9524 4782
Fax: (02) 9525 3788
sales@rollon.com.au
www.rollon.com.au

Follow us: