Table of contents

RPsp - specifications and dimensions

Supra - specifications and dimensions

Benefits

Main components and options

Reference installations
RPsp Key technical data
Automatic safety bars

Onboard controls with ergonomic keys

Aluminum rail

Automatic lateral flaps with anti-impact operation

Automatic folding/unfolding platform

Automatic long side access (available as option)

Check panel with emergency pushbutton and operation LEDs

Anti-impact /anti-shearing safety profile

Anti-shearing safety platform cover
# RPsp Key technical data

## Main specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application:</strong></td>
<td>Straight staircases with constant gradient</td>
</tr>
<tr>
<td><strong>Motor:</strong></td>
<td>0.40 kW (0.75 kW for the increased speed version)</td>
</tr>
<tr>
<td><strong>Power supply:</strong></td>
<td>230 Vac, 50 Hz</td>
</tr>
<tr>
<td><strong>Drive system:</strong></td>
<td>Rack and pinion</td>
</tr>
<tr>
<td><strong>Rated load:</strong></td>
<td>325 kg (0° - 36°) – 250 kg (36° - 45°)</td>
</tr>
<tr>
<td><strong>Speed</strong></td>
<td>0.07 m/s (0.13 m/s for the increased speed version)</td>
</tr>
<tr>
<td><strong>Standard platforms</strong></td>
<td>850x500 – 850x550 – 850x600 – 850x710 – 850x650 – 1050x710 – 1050x850 – 1250x850</td>
</tr>
<tr>
<td><strong>Rail:</strong></td>
<td>Single rail made of aluminum, max. length 40 m</td>
</tr>
<tr>
<td><strong>Weights:</strong></td>
<td>Machine body: 130 kg – Rail: 14 kg/m</td>
</tr>
<tr>
<td><strong>Safeties:</strong></td>
<td>Anti-impact/anti-shearing devices on the machine body – Anti-impact devices on the platform</td>
</tr>
<tr>
<td><strong>Code compliance:</strong></td>
<td>2006/42/EC – EN 81-40</td>
</tr>
</tbody>
</table>

1 Speed is subject to variations according to load and mains voltage ± 15%
Soft start and soft stop functionality included on increased speed version
2 Nominal dimensions in mm, Length x Width. Special platforms available as option
RPsp Key technical data

Typical Layout [radio unit]

RADIO CONTROL STATION

DIMENSION (WxHxD):
- WITH ERGONOMIC KEY: 130x90x85 mm
- WITH JOYSTICK: 160x120x115 mm
- WITH PUSH BUTTONS: 160x120x115 mm
- BATTERY: 2x AA

PARTS ARE FOR SURFACE MOUNTING

ELECTRICAL BOX

DIMENSION (WxHxD):
- STANDARD: 160x210x110 mm
- ALARM ON STAIRS: 250x250x130 mm
- WITH BATTERY BACK-UP: 500x700x200 mm

POWER SUPPLY: 230 V ± 10% 50 Hz
MINIMUM SECTION: 2.5 mm² / 12 AWG

Measurements are an indication.
In order to check a machine feasibility, refer to our organizations.
RPsp Key technical data

Typical Layout [wired unit]
RPsp Key technical data

Dimensions

Wall fixing encumbrances
RPsp Key technical data
Dimensions

Light stanchions fixing encumbrances
RPsp Key technical data
Dimensions

Heavy stanchions fixing encumbrances

FOLDED PLATFORM - SIDE VIEW

UNFOLDED PLATFORM - SIDE VIEW

UNFOLDED PLATFORM SIDE VIEW WITH LONG SIDE ACCESS

NOMINAL PLATFORM WIDTH
Wn: min 500/max 850

Wn + 190
RPsp Key technical data

Dimensions

Landing Space and Rail Overhang

MAX 5 m

P + 300 + PLATFORM LENGTH

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>850</th>
<th>1050</th>
<th>1250</th>
</tr>
</thead>
<tbody>
<tr>
<td>15°</td>
<td>C:40 D:1080+P</td>
<td>C:40 D:1160+P</td>
<td>C:40 D:1220+P</td>
</tr>
<tr>
<td>30°</td>
<td>C:140 D:1070+P</td>
<td>C:140 D:1160+P</td>
<td>C:140 D:1260+P</td>
</tr>
<tr>
<td>45°</td>
<td>C:220 D:1070+P</td>
<td>C:220 D:1160+P</td>
<td>C:220 D:1260+P</td>
</tr>
</tbody>
</table>
RPsp Key technical data

Dimensions

Free height

Front View
Free Height (A / B)

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>850</th>
<th>1050</th>
<th>1250</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>A:1900 B:1500</td>
<td>A:1900 B:1500</td>
<td>A:1900 B:1500</td>
</tr>
<tr>
<td>15°</td>
<td>A:2020 B:1690</td>
<td>A:2050 B:1700</td>
<td>A:2080 B:1730</td>
</tr>
<tr>
<td>20°</td>
<td>A:2070 B:1740</td>
<td>A:2100 B:1780</td>
<td>A:2140 B:1810</td>
</tr>
<tr>
<td>25°</td>
<td>A:2120 B:1810</td>
<td>A:2160 B:1850</td>
<td>A:2210 B:1900</td>
</tr>
<tr>
<td>40°</td>
<td>A:2290 B:2080</td>
<td>A:2330 B:2140</td>
<td>A:2460 B:2310</td>
</tr>
<tr>
<td>45°</td>
<td>A:2350 B:2170</td>
<td>A:2470 B:2320</td>
<td>A:2570 B:2520</td>
</tr>
</tbody>
</table>

A: HEAD OF STANDING USER (HEIGHT 1.8 m)
B: HEAD OF SITTING USER (HEIGHT 1.4 m)
Supra Key technical data
SUPRA

Check panel with emergency pushbutton and operation LEDs

Automatic safety bars

Onboard controls with ergonomic keys

Twin aluminum rail, RAL painted

Automatic lateral flaps with anti-impact operation

Automatic folding/unfolding platform

Anti-impact /anti-shearing safety profile

Anti-shearing safety platform cover

Automatic long side access (available as option)
Supra Key technical data
Configurations

Third rail device

In case of low gradients (below 20°), a third rail could be provided in specific straight sections. This will guarantee an higher stability to the unit.
## Supra Key technical data
### Main specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application:</strong></td>
<td>Curvilinear staircases with variable gradient from 0° to 45°.</td>
</tr>
<tr>
<td><strong>Motor:</strong></td>
<td>0,35 kW (0,70 kW for the increased speed version)</td>
</tr>
<tr>
<td><strong>Power supply:</strong></td>
<td>230 Vac, 50 Hz</td>
</tr>
<tr>
<td><strong>Drive system:</strong></td>
<td>Rack and pinion</td>
</tr>
<tr>
<td><strong>Rated load:</strong></td>
<td>300 kg (0° - 30°) – 250 kg (31° - 35°) – 190 kg (36° - 45°)</td>
</tr>
<tr>
<td><strong>Speed:</strong></td>
<td>0,07 m/s (0,13 m/s in the straight sections for the increased speed version)</td>
</tr>
<tr>
<td><strong>Standard platforms:</strong></td>
<td>850x500 – 850x550 – 850x600 – 850x710 – 850x650 – 1050x710 – 1050x850 – 1250x850</td>
</tr>
<tr>
<td><strong>Rail:</strong></td>
<td>Twin aluminum rail, RAL painted (9006) max. length 40 m</td>
</tr>
<tr>
<td><strong>Weights:</strong></td>
<td>Machine body: 155 kg – Rail: 15 kg/m</td>
</tr>
<tr>
<td><strong>Safeties:</strong></td>
<td>Anti-impact/anti-shearing devices on the machine body – Anti-impact devices on the platform</td>
</tr>
<tr>
<td><strong>Code compliance:</strong></td>
<td>2006/42/EC – EN 81-40</td>
</tr>
</tbody>
</table>

1 Speed is subject to variations according to load and mains voltage ± 15%

Soft start and soft stop functionality always included

2 Nominal dimensions in mm, Length x Width. Special platforms available as option
Supra Key technical data

Typical layout

RADIO CONTROL STATION
DIMENSION (WxHxD):
- WITH ERGONOMIC KEY: 130x90x85 mm
- WITH JOYSTICK: 160x120x115 mm
- WITH FLUSH BUTTONS: 160x120x115 mm
- BATTERY: nr.2 AA

ELECTRICAL BOX
DIMENSION (WxHxD):
- STANDARD: 400x500x200 mm
- WITH BATTERY BACK-UP: 500x700x200 mm

POWER SUPPLY: 230 V ± 10% 50Hz
MINIMUM SECTION: 2.5 mm² / 13 AWG

MAX 5 m
nr.2 x 16mm² AWG 6

THE ELECTRICAL BOX CAN BE INSTALLED AT A MAXIMUM DISTANCE OF 5 m FROM THE RAIL’S END. IN CASE OF CABLE CANALIZATION, USE A CONDUIT PIPE Ø25mm

Measurements are an indication. In order to check a machine feasibility, refer to our organizations.
Supra Key technical data
Dimensions on staircase

ENCUMBRANCES AND MEASUREMENTS
(with LIGHT STANCHIONS / LONG SIDE ACCESS / CHAMFERED RAPMS)

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Nominal Size</th>
<th>Nominal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>850x650</td>
<td>1050x710</td>
<td>1250x850</td>
</tr>
<tr>
<td>A = 165</td>
<td>A = 165</td>
<td>A = 165</td>
</tr>
<tr>
<td>B = 1025</td>
<td>B = 1085</td>
<td>B = 1225</td>
</tr>
<tr>
<td>C = 1120</td>
<td>C = 1221</td>
<td>C = 1393</td>
</tr>
<tr>
<td>D varies</td>
<td>D varies</td>
<td>D varies</td>
</tr>
<tr>
<td>E = 1195</td>
<td>E = 1255</td>
<td>E = 1395</td>
</tr>
<tr>
<td>M = 470</td>
<td>M = 470</td>
<td>M = 470</td>
</tr>
<tr>
<td>G see table below</td>
<td>G see table below</td>
<td>G see table below</td>
</tr>
</tbody>
</table>

Bottom landing space (G)

<table>
<thead>
<tr>
<th>Angle</th>
<th>Rated load</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>45°</td>
<td>190 kg</td>
<td>H+1130</td>
</tr>
<tr>
<td>35°</td>
<td>250 kg</td>
<td>H+1240</td>
</tr>
<tr>
<td>30°</td>
<td>300 kg</td>
<td>H+1300</td>
</tr>
<tr>
<td>45°</td>
<td>190 kg</td>
<td>H+1320</td>
</tr>
<tr>
<td>35°</td>
<td>250 kg</td>
<td>H+1430</td>
</tr>
<tr>
<td>30°</td>
<td>300 kg</td>
<td>H+1490</td>
</tr>
<tr>
<td>45°</td>
<td>190 kg</td>
<td>H+1520</td>
</tr>
<tr>
<td>35°</td>
<td>250 kg</td>
<td>H+1630</td>
</tr>
<tr>
<td>30°</td>
<td>300 kg</td>
<td>H+1690</td>
</tr>
</tbody>
</table>
Supra Key technical data

Dimensions

Wall fixing

FOLDED PLATFORM - SIDE VIEW

UNFOLDED PLATFORM - SIDE VIEW

UNFOLDED PLATFORM SIDE VIEW WITH LONG SIDE ACCESS

Measurements are an indication.
In order to check a machine feasibility, refer to our organizations.
Supra Key technical data
Dimensions

Light stanchions fixing

Folded Platform - Side View

Unfolded Platform - Side View

Unfolded Platform Side View with Long Side Access

Measurements are an indication. In order to check a machine feasibility, refer to our organizations.
Supra Key technical data

Dimensions

Heavy stanchions fixing

- Folded Platform - Side View
- Unfolded Platform - Side View
- Unfolded Platform Side View with Long Side Access

Measurements are an indication. In order to check a machine feasibility, refer to our organizations.
Supra Key technical data

Dimensions

Landing space

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>PLATFORM LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>45°</td>
<td>H+1130</td>
</tr>
<tr>
<td>35°</td>
<td>H+1240</td>
</tr>
<tr>
<td>30°</td>
<td>H+1300</td>
</tr>
</tbody>
</table>
## Supra Key technical data

### Dimensions

#### Free height

![Free height diagram](image)

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>850</th>
<th>1050</th>
<th>1250</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>A:1900 B:1500</td>
<td>A:1900 B:1500</td>
<td>A:1900 B:1500</td>
</tr>
<tr>
<td>15°</td>
<td>A:2050 B:1690</td>
<td>A:2055 B:1700</td>
<td>A:2080 B:1730</td>
</tr>
<tr>
<td>20°</td>
<td>A:2070 B:1740</td>
<td>A:2100 B:1780</td>
<td>A:2140 B:1810</td>
</tr>
<tr>
<td>25°</td>
<td>A:2120 B:1810</td>
<td>A:2160 B:1850</td>
<td>A:2210 B:1900</td>
</tr>
<tr>
<td>40°</td>
<td>A:2290 B:2060</td>
<td>A:2370 B:2140</td>
<td>A:2460 B:2310</td>
</tr>
<tr>
<td>45°</td>
<td>A:2370 B:2170</td>
<td>A:2470 B:2320</td>
<td>A:2570 B:2520</td>
</tr>
</tbody>
</table>

*Notes:

A: HEAD OF STANDING USER (HEIGHT 1.8 m)
B: HEAD OF SITTING USER (HEIGHT 1.4 m)
Supra Key technical data
Curves with light stanchions

180° curve (radius 187 mm)

180° curve (radius 220 mm)

180° curve (radius 187 mm) with intermediate tract

180° curve (radius 187 mm) with intermediate tract
Supra Key technical data
Curves with heavy stanchions

180° curve (radius 187 mm)

180° curve (radius 220 mm)

180° curve (radius 187 mm) with intermediate tract

180° curve (radius 187 mm) with intermediate tract
Supra Key technical data

Parking curves

90° parking curves

180° parking curves
Benefits
Benefits

Table of contents

- High level design
- Common components and family look
- Quality in every detail
- Fast delivery, fast installation
- Ergonomic controls and a wide range of options
- Safe, reliable, robust
Benefits
High level design

High level design which combines family feeling, functionality and elegance. Soft colours, rounded shapes, minimum encumbrance, foldaway safety bars. These are just some of the points which qualify the product and make it suitable for every environment.

Minimum encumbrance
The machine requires only 285 mm depth and 1290 mm height. Undoubtedly, a good value for the private Customers.

Foldaway safety bars
RPsp and Supra fold the safety bars into the platform. This solution makes the machine extremely resistant and prevents vandalism in public access areas.
Benefits
Common components and family look

Supra and RPsp have the same style: only the rail and the stanchions are different. One aesthetical concept for every kind of stairs. The family look with RPsp is not only aesthetical; this concept is leading also in some of its mechanical components. Spare parts stock, personnel training and faults finding activities will be significantly reduced thanks to Supra coherence with RPsp.

Look and design to cost lead us to same arrival, a product immedialty identifiable and cost reduction due to the use of compatible components.
Discover the quality in every details, technical solutions and choice of materials. An extended use of the Aluminum (rail, platform, safety bars) to provide you with a durable product. The ABS plastic covers represent the best solution for outdoor installations. Accurate construction and assembly confirm the excellence of our project.
The platform and rail can be installed in one working day. Simply anchor the stanchions to the stairs, place the rail on it, fit the platform and connect the machine to the power supply. Adjustable stanchions allow an accurate rail fixing and a faster installation to be made. Together with the machine our engineers have also designed a complete set of dedicated installation tools. These tools will make the machine handling easier and smoother, i.e. 2 short rail pieces already mounted on the carriage for an easy connection to the rest of the rail and a self standing support.
Benefits
Ergonomic controls and a wide range of options

An ergonomic human-machine interface and a complete range of options, allows each Customer to find the right solution. Thanks to the fully automatic platform and the intermediate stops, the machine is suitable for every type of building. The optional features also includes: several platform sizes; long side access; radio remote control; folding seat; light and acoustic alarms and auxiliary power system.
Benefits
Safe, reliable, robust

RPsp and Supra (CE, TUV certified) are compliant with the European Machine Directive 2006/42/EC and conform to the EN 81-40. The lift is equipped with anti-crushing and anti-shearing safety devices.

Due to the use of long life tests during the machine development, our engineers have built two of the most robust and reliable products on the market. RPsp and SUPRA are designed for a continuous service. The capacity reaches 325 kg controlled by an overload sensor.

RPsp and Supra can be installed indoors and outdoors. The IP55 certified version is highly recommended for outdoor installation.
Main components and options
Main components and options

Table of contents

Stanchions

Controls

Platform

Other options
Main components and options

Stanchions

Light adjustable version 49/39

Heavy adjustable version 49/82
Main components and options
Customized fixings

Grating staircase
Metal staircase
Wooden staircase

Additional info in our Fixing Guide
Main components and options
Customized fixings

L shaped bracket

Z shaped bracket

Z shaped bracket
Main components and options

Control devices

Wide range of devices designed for different applications and user profiles

- Onboard controls with ergonomic keys (STD)
  - Standard and functional configuration…but you need the key to operate the unit.

- Onboard controls with push buttons
  - Suggested for public places like railway stations and subways with multiple users.

- Call/Send stations

- Remote control
  - Joystick and/or buttons 4-way device (open/close/up down) with intuitive labels

- Cord control

- Call/Send station with buttons

- Call bracket (RPSP)

- Call stanchion (SUPRA)

- When a nearby wall is missing
Main components and options

Platform

Fully automatic operation even on the standard basic unit

Customized platform dimensions
(width from 500mm to 900mm)

Automatic long side access
(available for any platform dimension it facilitates getting on/off the platform in case of reduced space downwards at bottom landing)

Extension for lateral flaps
(with an easy snap on connection, available also as retrofit to facilitate getting on/off the platform and solve problems with not perfectly horizontal floors)

Chamfered flaps
(applied to reduce encumbrances at curves on narrow staircases)

Other availabilities (OPT)
Main components and options

Other options

SUPRA: During a power outage ensures the machine operation for about 15 minutes at full loaded platform.

RPsp: During a power outage ensures the machine operation for about 15 minutes at full loaded platform. Increased speed version option is requested.

Basing on the platform dimensions a water-proof cover cloth is available for both RPsp and Supra.

This is intended to protect the unit when parked.

Folding seat

Auxiliary power system

Visual/audio alarms on the stairs

Clover cloth
Main components and options

Radio, Wired configuration

RPSP is available in two main different configurations
- with wireless control devices (RADIO CONTROLLED UNIT)
- with cabled control devices (WIRED UNIT)

Radio controlled units
Are provided with a dedicated radio system allowing for free position of the control devices (Call stations).
A completely new cutting-edge technology, that can provide digital, multi-frequency, powerful and reliable broadcast in compliance with the EU emission standards. Main advantages are:
- full path coverage in the most common installation conditions, even up to 40 meters indoors
- reduced power consumption and long battery life
- simultaneous operation of up to 16 adjacent units
- easy to calibrate if needed

Wired units (no batteries, no radio)
When radio system are not allowed or preferred (e.g. underground application, research center or police stations), the wired unit is the best fitting solution.
Controls on board and at landings are with push buttons.
An additional junction box and the relevant cable ducts for the cableways are provided.
A specific manual APP-WRV-XX-00, includes all the instructions and the wiring necessary for the correct predisposition of the machine.
Main components and options
Indoors, Outdoors - recommendation

<table>
<thead>
<tr>
<th>ENVIRONMENT TYPE</th>
<th>ENVIRONMENT DESCRIPTION</th>
<th>OUR SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoors - not aggressive</td>
<td>• Indoor places with possible condensation</td>
<td>Standard version</td>
</tr>
<tr>
<td>Indoors - aggressive</td>
<td>• Indoor places with high condensation levels</td>
<td></td>
</tr>
<tr>
<td>Outdoors - not aggressive</td>
<td>• Outdoor environments far from sea with reasonable atmospheric agents actions</td>
<td>IP55 version</td>
</tr>
<tr>
<td></td>
<td>• Outdoor environments closed to the sea</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Outdoor environments with aggressive atmospheric agents actions</td>
<td></td>
</tr>
</tbody>
</table>

IP55 is recommended for outdoor applications.

In addition, stainless steel electrical box is recommended when exposed to direct rain.

Standard unit could be used outdoor when not exposed to direct rain.

In outdoor application, Supra rail cupper bar demands more frequent cleaning and maintenance

<table>
<thead>
<tr>
<th>Temperature range</th>
<th>Standard Version</th>
<th>IP55 version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating ambient temperature (*)</td>
<td>0° to +40° C</td>
<td>0° to +40° C</td>
</tr>
<tr>
<td>Non-operating temperature</td>
<td>–5° to +55 °C</td>
<td>–25° to +55 °C</td>
</tr>
</tbody>
</table>

(*) in the absence of ice formations and/or snow accumulations
Main components and options
Kits on request 2/2

Installation Kit
For a quick and efficient installation we offer an installation kit including:
- Self-bearing support bracket
- Handles for lifting the Drive Unit

The same kit can work for RPSP and SUPRA

Special Tools kit (RPSP)
- Electrical motor drive unit for movement of the Drive Unit
- Tool to remove the guide casing

The power driver of Supra is allowing installation mode to move the unit without any additional special tool
Main components and options
Platform dimensions and useful space

<table>
<thead>
<tr>
<th>Platform type and dimensions</th>
<th>useful Length (Lu)</th>
<th>useful Width (Wu) w/o folding seat</th>
<th>useful Width (Wu) with folding seat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Nominal Size (LxnWn)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>std</td>
<td>1250 850</td>
<td>1260</td>
<td>820 800</td>
</tr>
<tr>
<td>std</td>
<td>1050 850</td>
<td>1060</td>
<td>820 800</td>
</tr>
<tr>
<td>std</td>
<td>1050 710</td>
<td>1060</td>
<td>680 660</td>
</tr>
<tr>
<td>std</td>
<td>850 710</td>
<td>860</td>
<td>680 660</td>
</tr>
<tr>
<td>std</td>
<td>850 650</td>
<td>860</td>
<td>620 600</td>
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<td>850 550</td>
<td>860</td>
<td>520 500</td>
</tr>
<tr>
<td>std</td>
<td>850 500</td>
<td>860</td>
<td>470 450</td>
</tr>
</tbody>
</table>

Platforms with useful width 800 mm (at least 750 mm) are suggested for compatibility with most of the wheelchair models.

Platform with smaller dimensions are available for installation in narrow staircases. These platform widths may not be compatible with the use of some wheelchair models.
Reference installations
Reference installations
Supra

Public School (Italy)
Reference installations
RPsp

Municipal building (Italy)
Reference installations
Supra

Anzio (Rome)
Reference installations

RPsp

Buedingen (Germany)
Reference installations
Supra

Turin
Reference installations
RPsp

Norway
Reference installations

RPsp

Bardolino, Italy
Reference installations
Supra

Extra European markets
We are Thyssenkrupp

Pictures from web / public domain
Thank you for your attention!