



1

**COVERING**

Mould-on polyurethane, hardness 90 Shore A, dark grey, anti-trace.  
Electrical resistivity  $< 10^9 \Omega$ .



2

**WHEEL CENTRE BODY**

Pressure die-cast aluminium.



3

**ROLLING ACTION**

Hub with stainless steel shielded ball bearings.  
Ideal solution for heavy loads and continuous moving.



4

**FIXED PLATE BRACKET**

AISI 304 stainless steel sheet, the bracket is designed to withstand loads up to 3000N.



5

**TURNING PLATE BRACKET**

AISI 304 stainless steel sheet, the bracket is designed to withstand loads up to 3000N.

The presence of a double ball race and direct contact between the plate and the ball race ring with built-in pin ensure excellent manoeuvrability.

Does not require maintenance.

It consists of (see Fig.1):

1. fitting plate: AISI 304 stainless steel sheet;
2. fork: AISI 304 stainless steel sheet;
3. ball race ring: AISI 304 stainless steel sheet;
4. central pin: incorporated in the plate, cold reflowed;
5. rotation system: dual grease-lubricated ball race;
6. dust seal: blue technopolymer, available only for SSL and SSF executions.



6

**BRAKE**

Total brake that locks the wheel and bracket rotation.

The optimised dimensions and the retractable pedal ensure minimal space occupied and maximum actuation ease.

Hardened carbon steel spring.

The trolley must be turned to use the device.

The brake is simple and effective to use: it is actuated and released by a simple action from the top downward at the tip of two separate pedals, thus ensuring the utmost manoeuvring comfort.



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**STANDARD EXECUTIONS**

- **PXL**: fixed plate bracket, without brake.
- **SXL**: turning plate bracket, without brake.
- **SXF**: turning plate bracket, with brake.
- **FXL**: turning plate bracket and centre pass-through hole, without brake.
- **FXF**: turning plate bracket and centre pass-through hole, with brake.

**APPLICATIONS**

Excellent rolling resistance and elasticity features, high wear and tearing resistance.

For further information see wheel technical data sheet RE.F5-ESD (see page 1251).

**FEATURES AND APPLICATIONS**

The special polyurethane with electrical resistivity  $< 10^9 \Omega$  prevents the accumulation of electrostatic charge. RE.F5-SST-N-ESD wheels are therefore suitable for applications in "ESD PROTECTED AREAS" where all components sensitive to electrostatic discharges must be treated with the minimum risk of damage.

The electrical specifications meet the requirements of the ISO 22878:2004 standard. The electrical resistivity values indicated have been measured in the temperature range 18-25°C (as per regulations). For environments with operating temperatures below 10°C, contact ELESAs sales service.

The use of stainless steel bearings and supports greatly reduces the possibility of sparks being created during handling.

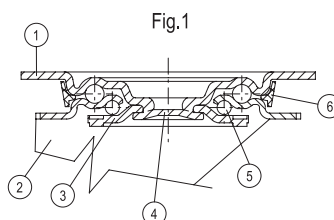
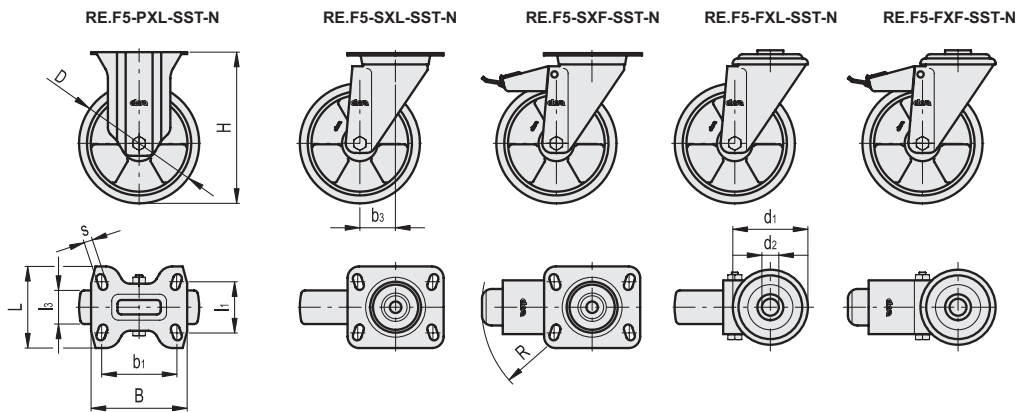


Fig.1



RE.F5-PXL-SST-N-ESD



| Code       | Description             | D   | I1 | I2 | I3 | H   | B   | L   | s  | b1  | b2  | Rolling resistance#<br>[N] | Dynamic carrying capacity#<br>[N] | ⚖    |
|------------|-------------------------|-----|----|----|----|-----|-----|-----|----|-----|-----|----------------------------|-----------------------------------|------|
| 451491-ESD | RE.F5-080-PXL-SST-N-ESD | 80  | 45 | 60 | 25 | 107 | 100 | 85  | 9  | 75  | 80  | 1500                       | 1700                              | 520  |
| 451493-ESD | RE.F5-100-PXL-SST-N-ESD | 100 | 45 | 60 | 30 | 128 | 100 | 85  | 9  | 75  | 80  | 2250                       | 2000                              | 690  |
| 451495-ESD | RE.F5-125-PXL-SST-N-ESD | 125 | 45 | 60 | 35 | 156 | 100 | 85  | 9  | 75  | 80  | 2800                       | 2200                              | 890  |
| 451497-ESD | RE.F5-150-PXL-SST-N-ESD | 150 | 73 | 87 | 40 | 194 | 140 | 110 | 11 | 105 | 105 | 3300                       | 3000                              | 2040 |
| 451499-ESD | RE.F5-200-PXL-SST-N-ESD | 200 | 73 | 87 | 50 | 240 | 140 | 110 | 11 | 105 | 105 | 3600                       | 3000                              | 2760 |

RE.F5-SXL-SST-N-ESD

| Code       | Description             | D   | I1 | I2 | I3 | H   | B   | L   | s  | b1  | b2  | b3 | Rolling resistance#<br>[N] | Dynamic carrying capacity#<br>[N] | ⚖    |
|------------|-------------------------|-----|----|----|----|-----|-----|-----|----|-----|-----|----|----------------------------|-----------------------------------|------|
| 451572-ESD | RE.F5-080-SXL-SST-N-ESD | 80  | 45 | 60 | 25 | 107 | 100 | 85  | 9  | 75  | 80  | 40 | 1500                       | 1700                              | 720  |
| 451573-ESD | RE.F5-100-SXL-SST-N-ESD | 100 | 45 | 60 | 30 | 128 | 100 | 85  | 9  | 75  | 80  | 35 | 2250                       | 2000                              | 940  |
| 451575-ESD | RE.F5-125-SXL-SST-N-ESD | 125 | 45 | 60 | 35 | 156 | 100 | 85  | 9  | 75  | 80  | 37 | 2800                       | 2200                              | 1140 |
| 451577-ESD | RE.F5-150-SXL-SST-N-ESD | 150 | 73 | 87 | 40 | 194 | 140 | 110 | 11 | 105 | 105 | 56 | 3300                       | 3000                              | 2340 |
| 451579-ESD | RE.F5-200-SXL-SST-N-ESD | 200 | 73 | 87 | 50 | 240 | 140 | 110 | 11 | 105 | 105 | 56 | 3600                       | 3000                              | 3050 |

RE.F5-SXF-SST-N-ESD

| Code       | Description             | D   | I1 | I2 | I3 | H   | B   | L   | s  | b1  | b2  | b3 | R   | Rolling resistance#<br>[N] | Dynamic carrying capacity#<br>[N] | ⚖    |
|------------|-------------------------|-----|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----------------------------|-----------------------------------|------|
| 451631-ESD | RE.F5-080-SXF-SST-N-ESD | 80  | 45 | 60 | 25 | 107 | 100 | 85  | 9  | 75  | 80  | 40 | 120 | 1500                       | 1700                              | 910  |
| 451633-ESD | RE.F5-100-SXF-SST-N-ESD | 100 | 45 | 60 | 30 | 128 | 100 | 85  | 9  | 75  | 80  | 35 | 120 | 2250                       | 2000                              | 1080 |
| 451635-ESD | RE.F5-125-SXF-SST-N-ESD | 125 | 45 | 60 | 35 | 156 | 100 | 85  | 9  | 75  | 80  | 37 | 120 | 2800                       | 2200                              | 1280 |
| 451637-ESD | RE.F5-150-SXF-SST-N-ESD | 150 | 73 | 87 | 40 | 194 | 140 | 110 | 11 | 105 | 105 | 56 | 156 | 3300                       | 3000                              | 2630 |
| 451639-ESD | RE.F5-200-SXF-SST-N-ESD | 200 | 73 | 87 | 50 | 240 | 140 | 110 | 11 | 105 | 105 | 56 | 156 | 3600                       | 3000                              | 3250 |

RE.F5-FXL-SST-N-ESD

| Code       | Description             | D   | d1  | d2 | I3 | H   | b3 | Rolling resistance#<br>[N] | Dynamic carrying capacity#<br>[N] | ⚖    |
|------------|-------------------------|-----|-----|----|----|-----|----|----------------------------|-----------------------------------|------|
| 451881-ESD | RE.F5-080-FXL-SST-N-ESD | 80  | 73  | 12 | 25 | 107 | 40 | 1500                       | 1700                              | 650  |
| 451883-ESD | RE.F5-100-FXL-SST-N-ESD | 100 | 73  | 12 | 30 | 128 | 35 | 2250                       | 2000                              | 880  |
| 451885-ESD | RE.F5-125-FXL-SST-N-ESD | 125 | 73  | 12 | 35 | 156 | 37 | 2800                       | 2200                              | 1080 |
| 451887-ESD | RE.F5-150-FXL-SST-N-ESD | 150 | 102 | 20 | 40 | 188 | 56 | 3300                       | 3000                              | 2200 |
| 451889-ESD | RE.F5-200-FXL-SST-N-ESD | 200 | 102 | 20 | 50 | 236 | 56 | 3600                       | 3000                              | 2950 |

RE.F5-FXF-SST-N-ESD

| Code       | Description             | D   | d1  | d2 | I3 | H   | b3 | R   | Rolling resistance#<br>[N] | Dynamic carrying capacity#<br>[N] | ⚖    |
|------------|-------------------------|-----|-----|----|----|-----|----|-----|----------------------------|-----------------------------------|------|
| 451919-ESD | RE.F5-080-FXF-SST-N-ESD | 80  | 73  | 12 | 25 | 107 | 40 | 120 | 1500                       | 1700                              | 885  |
| 451920-ESD | RE.F5-100-FXF-SST-N-ESD | 100 | 73  | 12 | 30 | 128 | 35 | 120 | 2250                       | 2000                              | 1020 |
| 451922-ESD | RE.F5-125-FXF-SST-N-ESD | 125 | 73  | 12 | 35 | 156 | 37 | 120 | 2800                       | 2200                              | 1220 |
| 451923-ESD | RE.F5-150-FXF-SST-N-ESD | 150 | 102 | 20 | 40 | 188 | 56 | 156 | 3300                       | 3000                              | 2490 |
| 451925-ESD | RE.F5-200-FXF-SST-N-ESD | 200 | 102 | 20 | 50 | 236 | 56 | 156 | 3600                       | 3000                              | 3240 |

# For rolling resistance and dynamic carrying capacity see Technical data (on page 1296).

