

# Steel Single Flanged Rail Wheels



**MATERIAL:** Steel to BS970: Part 1: 1983: 080M40

**OPERATING TEMPERATURE RANGE:**

- Plain bored or keywayed wheels – 30°C to 350°C
- Ball or taper roller bearinged wheels – 40°C to 120°C

The 'maximum load rating' given for each wheel is based on the full tread width being in contact with the rail. Working loads must be calculated based on the useable rail width and operating conditions – see 'Design Data' paras. 6.1. and 6.2.

Standard wheel features a 3° tread angle to assist centering of pairs of wheels on common axles when used with convex crown rails. When single flanged wheels are to be used singly or on flat topped rails, 'flat treads', (which have the tread parallel to the wheel axis and flanges at a 5° angle) should be specified by adding suffix 'FT' to the part number. (Tread diameter may be reduced)

Alternative bore/bearing diameters and alternative bearing types (i.e. bronze bushes, self-lubricating bushes, roller bearings, spherical roller bearings, etc.) are available to order – see pages 26-27.

Plain bore wheels are not drilled and tapped for greasing unless requested at time of order.

**For technical information covering load factors, inertial and rolling resistance, coefficients of friction between wheel and track, and keyway dimensions, see "Design Data" Index on page 20.**

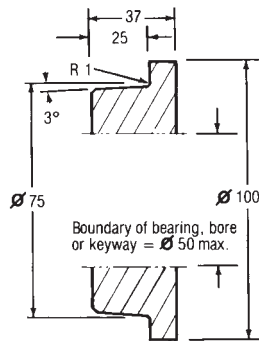
**WHEEL TYPE:  
SSF75/25**

See table for full part number

**Maximum load rating:  
975Kg**

See pages 23-26 for load factors

**Approximate weight: 1.4Kg**



Wheels fitted with ball journals are pre-lubricated, double shielded

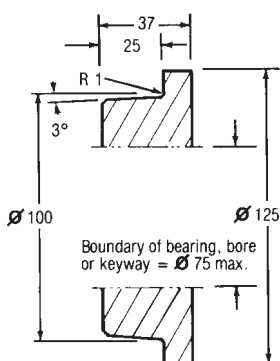
**WHEEL TYPE:  
SSF100/25**

See table for full part number

**Maximum load rating:  
1300Kg**

See pages 23-26 for load factors

**Approximate weight: 2.5Kg**



Wheels fitted with ball journals are pre-lubricated, double shielded

**FULL PART NUMBER FOR ORDERING**

| Axle Ø               | Plain Bore | Plain Bore Keywayed | Ball Bearing    | Taper Roller Bearing |
|----------------------|------------|---------------------|-----------------|----------------------|
| <b>METRIC AXLE Ø</b> |            |                     |                 |                      |
| 20                   |            | SSF75/25/KM 20      | SSF75/25/BJM 20 | SSF75/25/TBM 20      |
| 25                   |            | SSF75/25/KM 25      | SSF75/25/BJM 25 | SSF75/25/TBM 25      |

LOAD LIMITED BY BEARINGS TO: (1) 900Kg

- TBM25 is actually Ø52mm recess, but considered acceptable
- Too small for grease nipples

|                      |  |                 |                  |                  |
|----------------------|--|-----------------|------------------|------------------|
| <b>METRIC AXLE Ø</b> |  |                 |                  |                  |
| 20                   |  | SSF100/25/KM 20 | SSF100/25/BJM 20 | SSF100/25/TBM 20 |
| 25                   |  | SSF100/25/KM 25 | SSF100/25/BJM 25 | SSF100/25/TBM 25 |

LOAD LIMITED BY BEARINGS TO: (1) 900Kg (2) 1140Kg

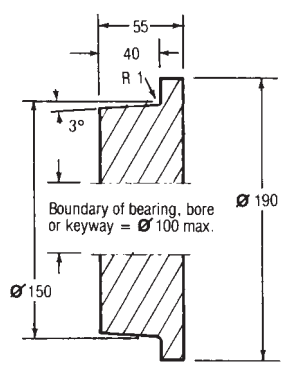
- Too small for grease nipples

# Steel Single Flanged Rail Wheels

STEEL SINGLE FLANGED RAIL

**WHEEL TYPE:**  
**SSF150/40**  
See table for full part number

**Maximum load rating:**  
**3100Kg**  
See pages 23-26 for load factors  
**Approximate weight: 8.5Kg**



Wheels fitted with ball journals are pre-lubricated, double shielded

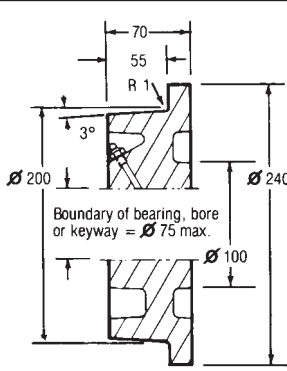
**FULL PART NUMBER FOR ORDERING**

| Axle Ø               | Plain Bore | Plain Bore Keywayed | Ball Bearing                    | Taper Roller Bearing |
|----------------------|------------|---------------------|---------------------------------|----------------------|
| <b>METRIC AXLE Ø</b> |            |                     |                                 |                      |
| 25                   |            | SSF150/40/KM 25     | SSF150/40/BJM 25 <sup>(1)</sup> | SSF150/40/TBM 25     |
| 30                   |            | SSF150/40/KM 30     | SSF150/40/BJM 30 <sup>(2)</sup> | SSF150/40/TBM 30     |
| 35                   |            | SSF150/40/KM 35     |                                 |                      |

LOAD LIMITED BY BEARINGS TO: (1) 1140Kg (2) 2040Kg

**WHEEL TYPE:**  
**SSF200/55**  
See table for full part number

**Maximum load rating:**  
**5700Kg**  
See pages 23-26 for load factors  
**Approximate weight: 18Kg**

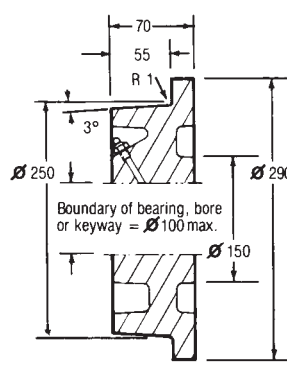


| Axle Ø               | Plain Bore | Plain Bore Keywayed | Ball Bearing                    | Taper Roller Bearing            |
|----------------------|------------|---------------------|---------------------------------|---------------------------------|
| <b>METRIC AXLE Ø</b> |            |                     |                                 |                                 |
| 30                   |            | SSF200/55/KM 30     | SSF200/55/BJM 30 <sup>(1)</sup> | SSF200/55/TBM 30 <sup>(4)</sup> |
| 35                   |            | SSF200/55/KM 35     | SSF200/55/BJM 35 <sup>(2)</sup> | SSF200/55/TBM 35                |
| 40                   |            | SSF200/55/KM 40     | SSF200/55/BJM 40 <sup>(3)</sup> | SSF200/55/TBM 40                |

LOAD LIMITED BY BEARINGS TO: (1) 2040Kg (2) 2800Kg (3) 3384Kg (4) 5200Kg

**WHEEL TYPE:**  
**SSF250/55**  
See table for full part number

**Maximum load rating:**  
**7100Kg**  
See pages 23-26 for load factors  
**Approximate weight: 29Kg**

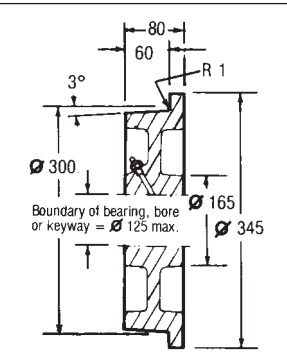


| Axle Ø               | Plain Bore | Plain Bore Keywayed | Ball Bearing                    | Taper Roller Bearing            |
|----------------------|------------|---------------------|---------------------------------|---------------------------------|
| <b>METRIC AXLE Ø</b> |            |                     |                                 |                                 |
| 35                   |            | SSF250/55/KM 35     | SSF250/55/BJM 35 <sup>(1)</sup> | SSF250/55/TBM 35 <sup>(4)</sup> |
| 40                   |            | SSF250/55/KM 40     | SSF250/55/BJM 40 <sup>(2)</sup> | SSF250/55/TBM 40                |
| 50                   |            | SSF250/55/KM 50     | SSF250/55/BJM 50                | SSF250/55/TBM 50                |

LOAD LIMITED BY BEARINGS TO: (1) 2800Kg (2) 3384Kg (4) 6625Kg

**WHEEL TYPE:**  
**SSF300/60**  
See table for full part number

**Maximum load rating:**  
**9300kg**  
See pages 23-26 for load factors  
**Approximate weight: 45Kg**



| Axle Ø               | Plain Bore | Plain Bore Keywayed | Ball Bearing                    | Taper Roller Bearing            |
|----------------------|------------|---------------------|---------------------------------|---------------------------------|
| <b>METRIC AXLE Ø</b> |            |                     |                                 |                                 |
| 40                   |            | SSF300/60/KM 40     | SSF300/60/BJM 40 <sup>(1)</sup> | SSF300/60/TBM 40 <sup>(3)</sup> |
| 50                   |            | SSF300/60/KM 50     | SSF300/60/BJM 50 <sup>(2)</sup> | SSF300/60/TBM 50                |

LOAD LIMITED BY BEARINGS TO: (1) 4400Kg (2) 7340Kg (3) 8155Kg

# Steel Single Flanged Rail Wheels

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## FULL PART NUMBER FOR ORDERING

| Axle Ø               | Plain Bore | Plain Bore Keywayed | Ball Bearing                    | Taper Roller Bearing            |
|----------------------|------------|---------------------|---------------------------------|---------------------------------|
| <b>METRIC AXLE Ø</b> |            |                     |                                 |                                 |
| 50                   |            | SSF350/60/KM 50     | SSF350/60/BJM 50 <sup>(1)</sup> | SSF350/60/TBM 50 <sup>(4)</sup> |
| 60                   |            | SSF350/60/KM 60     | SSF350/60/BJM 60 <sup>(2)</sup> | SSF350/60/TBM 60                |
| 75                   |            | SSF350/60/KM 75     | SSF350/60/BJM 75 <sup>(3)</sup> | SSF350/60/TBM 75                |

LOAD LIMITED BY BEARINGS TO: (1) 7340Kg (2) 9785Kg (3) 9000Kg (4) 10600Kg

### WHEEL TYPE: **SSF350/60**

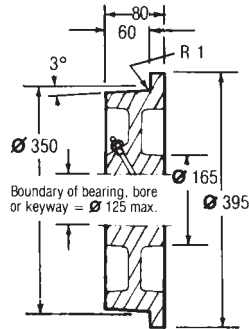
See table for full part number

Maximum load rating:

**10800Kg**

See pages 23-26 for load factors

Approximate weight: **60Kg**



### WHEEL TYPE: **SSF400/70**

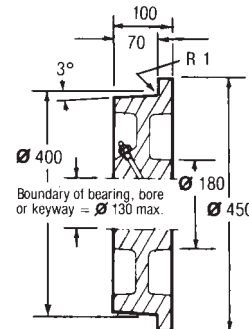
See table for full part number

Maximum load rating:

**14400Kg**

See pages 23-26 for load factors

Approximate weight: **100Kg**



## METRIC AXLE Ø

|    |  |                 |                                 |                                 |
|----|--|-----------------|---------------------------------|---------------------------------|
| 50 |  | SSF400/70/KM 50 |                                 | SSF400/70/TBM 50 <sup>(1)</sup> |
| 60 |  | SSF400/70/KM 60 | SSF400/70/BJM 60 <sup>(3)</sup> | SSF400/70/TBM 60 <sup>(2)</sup> |
| 75 |  | SSF400/70/KM 75 | SSF400/70/BJM 75 <sup>(4)</sup> | SSF400/70/TBM 75                |

LOAD LIMITED BY BEARINGS TO: (1) 10600Kg (2) 13350Kg (3) 9785Kg (4) 9000Kg

### WHEEL TYPE: **SSF450/95**

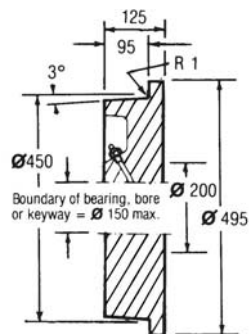
See table for full part number

Maximum load rating:

**22000Kg**

See pages 23-26 for load factors

Approximate weight: **150Kg**



## METRIC AXLE Ø

|     |  |                  |  |                                 |
|-----|--|------------------|--|---------------------------------|
| 75  |  | SSF450/95/KM 75  |  | SSF450/95/TBM 75 <sup>(1)</sup> |
| 100 |  | SSF450/95/KM 100 |  | SSF450/95/TBM 100               |

LOAD LIMITED BY BEARINGS TO: (1) 19400Kg

### WHEEL TYPE: **SSF600/100**

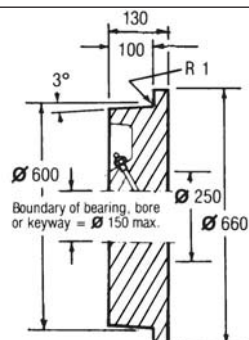
See table for full part number

Maximum load rating:

**30900Kg**

See pages 23-26 for load factors

Approximate weight: **280Kg**



## METRIC AXLE Ø

|     |  |                   |  |                    |
|-----|--|-------------------|--|--------------------|
| 100 |  | SSF600/100/KM 100 |  | SSF600/100/TBM 100 |
| 150 |  | SSF600/100/KM 150 |  | SSF600/100/TBM 150 |

STEEL SINGLE FLANGED RAIL