

Polyurethane Tyred Single Flanged Rail Wheels

POLYURETHANE TYRED SINGLE-FLANGED



Standard wheel features flanges with a 5° angle and a 'flat tread' (ie tread parallel to the wheel axis) for running on flat top rail. Polyurethane is resilient, durable material, resistant to abrasion and to many common chemicals. Polyurethane tyred wheels are capable of carrying heavy loads and of transmitting driving forces.

MATERIAL: Wheel Centre - Steel to BS970: Part 1: 1983: 080M40
Tyre - Polyester Based Polymer of 92° ± 3° Shore A Hardness

OPERATING TEMPERATURE RANGE:
-20°C to + 60°C (115°C for limited use)

PLEASE SPECIFY IF OPERATING IN HIGH HUMIDITY.

Anti-hydrolysis polyurethane is recommended for use in an operating environment of high humidity.

Polyurethane to the above hardness used on these wheels is Vulkollan, a high quality material that provides superior performance in most applications.

Should the mechanical properties of Vulkollan be inappropriate for the application, alternative grades of Polyurethane can be produced to meet the requirements. Polyurethane can be bonded onto most metal centres including aluminium, titanium, stainless steel and various ferrous and non-ferrous alloys.

The 'Maximum Load Rating' given for each wheel assumes the full tread width is in contact with the rail. In practice full contact with the rail across the tread width is rarely achieved due to:-

- a) Flange to rail clearance
- b) Wheel Overhang
- c) Rail Corner Radii

For calculation of the 'Maximum Allowable Load' see 'Design Data' Para 6.1

In addition the 'Maximum Load Rating' given for each wheel is for operation under ideal conditions.

Load factors must be applied according to the anticipated working conditions - see 'Design Data' Para 5.1

Alternative Bore/Bearing diameters and alternative bearing types (i.e) bronze bushes, self lubricating brushes, etc.) are available to order - see page 26-27.

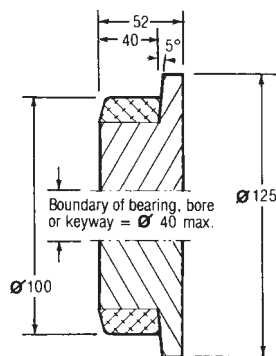
For technical information covering load factors, inertial and rolling resistance, chemical resistance, coefficients of friction between wheel and track and keyway dimensions, see 'Data Design' index on page 20.

WHEEL TYPE:
SFH100/40
See table for full part number

Maximum load rating:
450Kg

See 'Design Data' paras 5.1 and 6.1 for 'Maximum Allowable Load'.

Approximate weight: 2.7Kg



FULL PART NUMBER FOR ORDERING				
Axle Ø	Plain Bore	Plain Bore Keywayed	Ball Bearing	Taper Roller Bearing
METRIC AXLE Ø				
12		SFH100/40/KM 12	SFH100/40/BJM 12	
20		SFH100/40/KM 20	SFH100/40/BJM 20	
25		SFH100/40/KM 25	SFH100/40/BJM 25	
30		SFH100/40/KM 30		

Wheels fitted with ball journals are pre-lubricated, double shielded. Alternatively greasing can be through the axle – state if this option is required when ordering.

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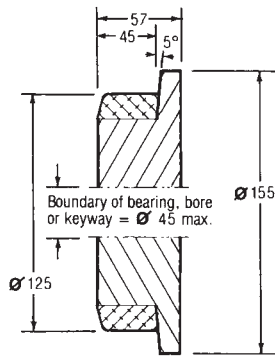
WHEEL TYPE: SFH125/45

See table for full part number

**Maximum load rating:
650Kg**

See 'Design Data' paras 5.1 and 6.1 for 'Maximum Allowable Load'.

Approximate weight: 4.7Kg



Wheels fitted with ball journals are pre-lubricated, double shielded. Alternatively greasing can be through the axle – state if this option is required when ordering.

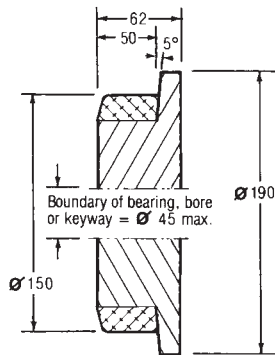
WHEEL TYPE: SFH150/50

See table for full part number

**Maximum load rating:
850Kg**

See 'Design Data' paras 5.1 and 6.1 for 'Maximum Allowable Load'.

Approximate weight: 7.6Kg



Wheels fitted with ball journals are pre-lubricated, double shielded. Alternatively greasing can be through the axle – state if this option is required when ordering.

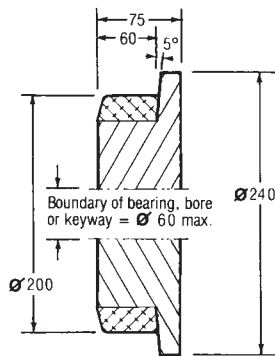
WHEEL TYPE: SFH200/60

See table for full part number

**Maximum load rating:
1400Kg**

See 'Design Data' paras 5.1 and 6.1 for 'Maximum Allowable Load'.

Approximate weight: 17Kg



Wheels fitted with ball journals are pre-lubricated, double shielded. Alternatively greasing can be through the axle – state if this option is required when ordering.

FULL PART NUMBER FOR ORDERING

Axle Ø	Plain Bore	Plain Bore Keywayed	Ball Bearing	Taper Roller Bearing
METRIC AXLE Ø				
12		SFH125/45/KM 12	SFH125/45/BJM 12	
20		SFH125/45/KM 20	SFH125/45/BJM 20	
25		SFH125/45/KM 25	SFH125/45/BJM 25	
30		SFH125/45/KM 30	SFH125/45/BJM 30	

LOAD LIMITED BY BEARINGS TO: (1) 570Kg

METRIC AXLE Ø				
20		SFH150/50/KM 20	SFH150/50/BJM 20	
25		SFH150/50/KM 25	SFH150/50/BJM 25	
30		SFH150/50/KM 30	SFH150/50/BJM 30	
35		SFH150/50/KM 35	SFH150/50/BJM 35	

METRIC AXLE Ø				
25		SFH200/60/KM 25	SFH200/60/BJM 25	
30		SFH200/60/KM 30	SFH200/60/BJM 30	
35		SFH200/60/KM 35	SFH200/60/BJM 35	
40		SFH200/60/KM 40	SFH200/60/BJM 40	

LOAD LIMITED BY BEARINGS TO: (1) 1140Kg

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