VINDEX INDUSTRIES

MANUFACTURER & EXPORTER

Spindle Bearing Units

HF | HZ | CS1 | CS1 S | CS1 12 | SMM

PRECISION SPINDLE COMPONENTS

Spindle inserts, bolster assemblies and compact bearing units for spinning and twisting machinery.

This catalogue presents six separate product families with dimensional tables, mounting arrangements and application guidance. Select the required design against your machine and approved drawing.

Inside this catalogue

02 - HF inserts without bolster
03 - HZ inserts with bolster
04 - CS1 compact units
05 - CS1 S compact units
06 - CS1 12 compact units
07 - SMM heavy spindle bearing units



HF-type insert photographs

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HF Inserts Without Bolster

HF 1 | HF 21 | HF 3 | HF 44 | HF 45

APPLICATION

Spinning and twisting spindles, with or without ring and traveller. Intended for light to medium loads at high speeds.

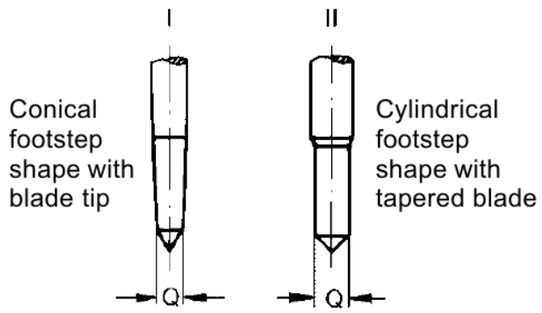
MACHINE / MILL TYPES

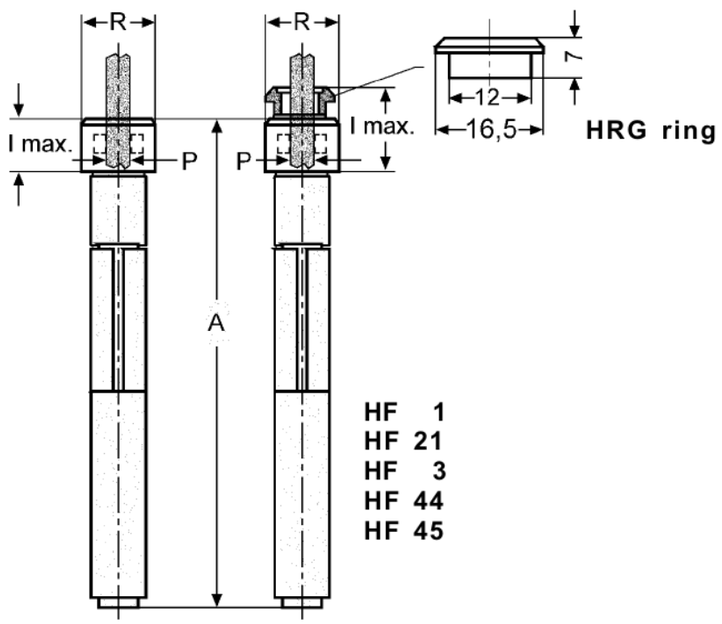
Ring spinning machines
Twisting machines
Cotton mills
Worsted mills
Doubling mills

SELECTION NOTES

Conical and cylindrical footstep designs are shown separately. HRG locking ring details and variant notes are included.

Types Ref. no.	Dimensions in mm A	R	P	Q	l max.	Shape of footstep bearing	Weight kg	Locking ring HRG Ref. no.
HF 1-0025 144[4]	141,5	16,0	6,8	4,50	26,5	I	0,107	-
HF 21-1251 595[1][4]	141,5	17,5	7,8	4,50	26,5	I	0,114	**HRG-1251 597**
HF 3-0952 502	158,0	21,7	8,8	5,50	15,5	I	0,147	-
HF 3-0952 503[2]	158,0	21,7	8,8	5,50	15,5	I	0,147	-
HF 44-0952 757	173,5	23,8	10,0	6,45	16,5	II	0,214	-
HF 44-0952 760[2]	173,5	23,8	10,0	6,45	16,5	II	0,190	-
HF 45-1258 940	173,5	23,8	10,0	7,95	16,5	II	0,214	-





[1] Hookless locking version
[2] Version with special damping spring for spinning and twisting with suppressed yarn balloon.
[3] Version with bigger footstep bearing diameter, for application in Two-for-One spindles.
[4] Delivery until using-up of stock

Dimensions are in mm unless stated otherwise. Reference design data; confirm final product dimensions, operating speed and fitment against the approved drawing.

HZ Inserts With Bolster

HZ 33 | HZ 35 | HZ 440 | HZ 55 | HZ 66 | HZ 68 | HZ 77

APPLICATION

Spinning and twisting spindles, with or without ring and traveller. The reference range covers light through very heavy loads.

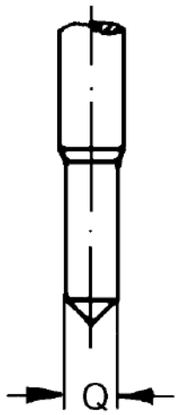
MACHINE / MILL TYPES

Ring spinning machines
Twisting machines
Cotton mills
Worsted mills
Twisting mills

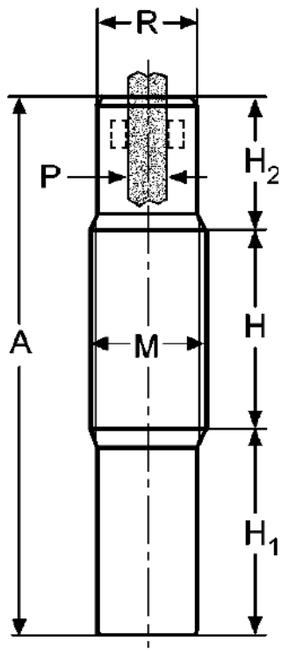
SELECTION NOTES

The HZ 33 reference marked (1) is a version for Two-for-One spindles. Confirm the required version and mounting thread.

Types Ref.no	Dimensions in mm A	R	P	Q	H	H_1	H_2	M	Weight kg
HZ 33 -0019 871[1)]	146,0	21,7	8,8	5,45	55,0	37,0	54,0	M 25 x 1,5	0,313
HZ 35 -0018 299	163,5	21,7	8,8	8,45	55,0	54,5	54,0	M 25 x 1,5	0,342
HZ 440-0029 250	178,5	23,7	10,0	6,45	100,0	47,5	31,0	M 27 x 1,5	0,468
HZ 55 -0952 204	188,0	28,2	12,0	7,95	115,0	37,0	36,0	M 32 x 1,5	0,734
HZ 66 -0014 227	229,0	32,5	14,0	8,95	144,5	56,0	28,5	M 35 x 1,5	0,927
HZ 68 -0017 830	229,0	32,5	14,0	10,95	144,5	56,0	28,5	M 35 x 1,5	0,930
HZ 77 -0952 381	273,0	37,8	16,0	10,95	123,0	100,5	40,5	M 40 x 1,5	1,750



Cylindrical footstep shape with tapered blade



HZ 33
HZ 35
HZ 440
HZ 55
HZ 66
HZ 68
HZ 77

[1)] Version for application in Two-for-One spindles.

Dimensions are in mm unless stated otherwise. Reference design data; confirm final product dimensions, operating speed and fitment against the approved drawing.

CS1 Compact Spindle Units

Hook | Hookless | Inner locking

APPLICATION

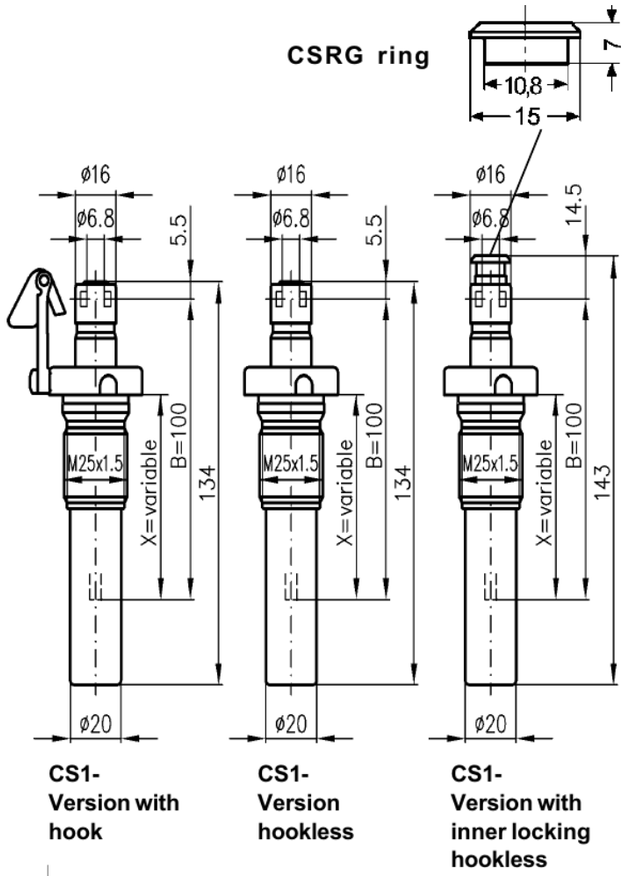
Compact spindle bearing units for cotton and worsted ring spinning machines. The source design range specifies speeds up to 25,000 rpm.

MACHINE / MILL TYPES

Ring spinning machines
Cotton mills
Worsted mills

SELECTION NOTES

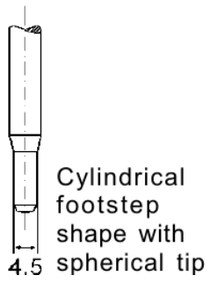
Flange geometry is machine-specific. Reference locking rings: 1257 888 (standard) and 1258 576 (alternative version). Unlocking lever selection requires confirmation.



CS1- Version with hook

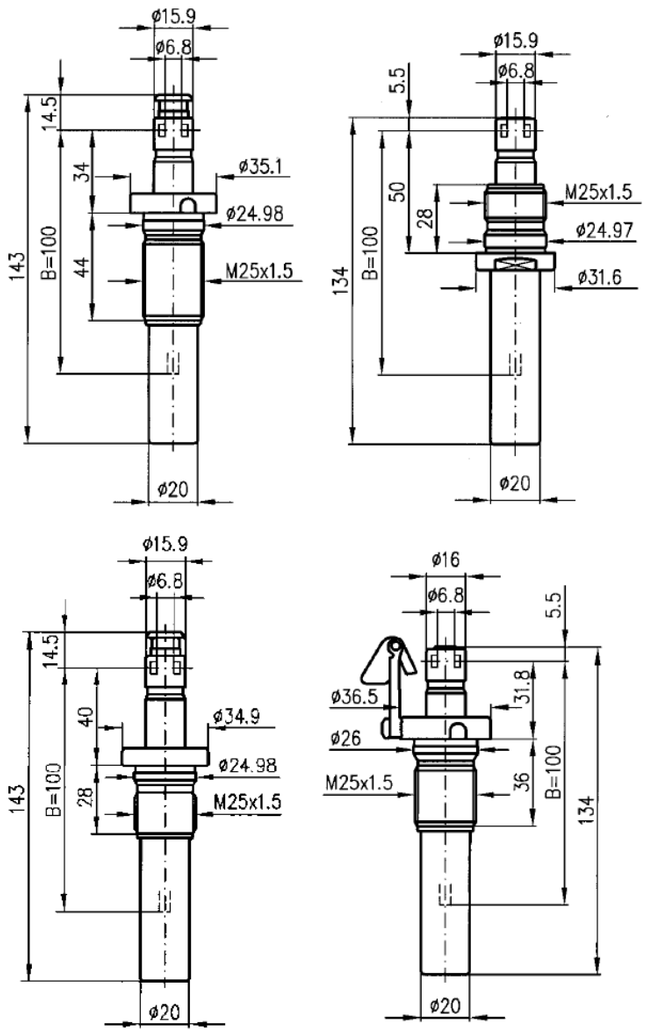
CS1- Version hookless

CS1- Version with inner locking hookless



Cylindrical footstep shape with spherical tip

Examples for the possible design of CS1:



Remarks

The indicated types are examples for the possible design of CS1.

The relevant flange dimensions are adjusted to the relations of dimensions of each specific ring spinning machine.

Dimensions are in mm unless stated otherwise. Reference design data; confirm final product dimensions, operating speed and fitment against the approved drawing.

CS1 S Compact Spindle Units

Elastic neck-bearing suspension | Mounting variants

APPLICATION

Versions with elastic suspension of the neck bearing. The source design range includes versions for speeds up to 30,000 rpm.

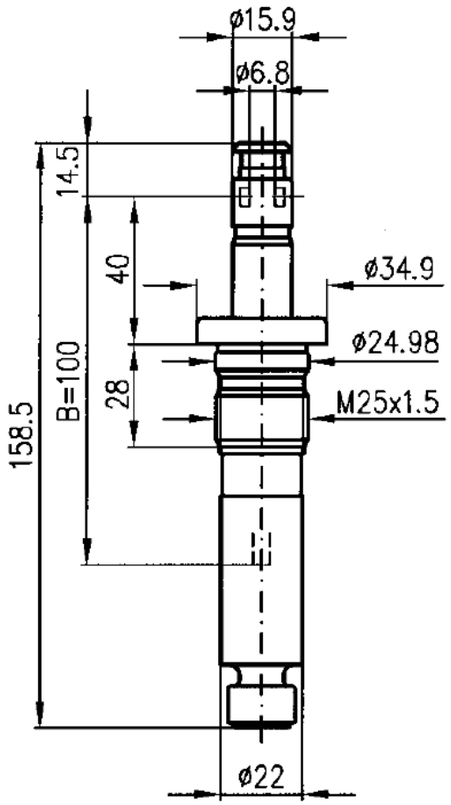
MACHINE / MILL TYPES

Ring spinning machines
Cotton mills
Worsted mills

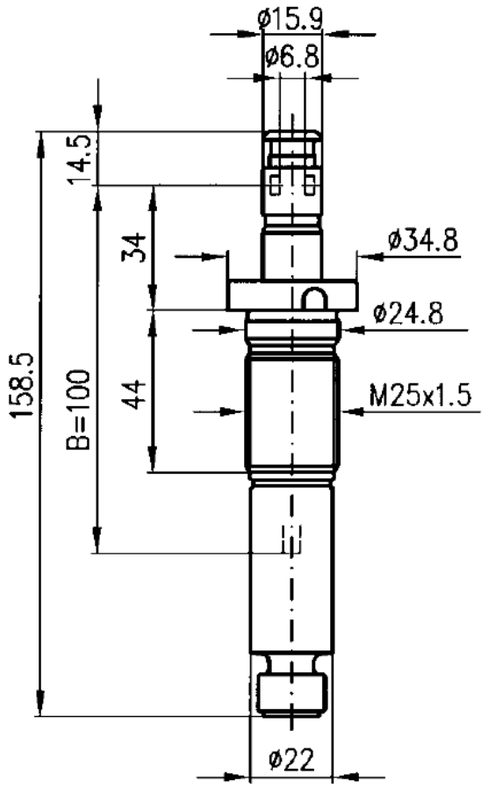
SELECTION NOTES

Shown designs are examples. Hook, hookless, brake and flange configurations must be selected for the specific machine.

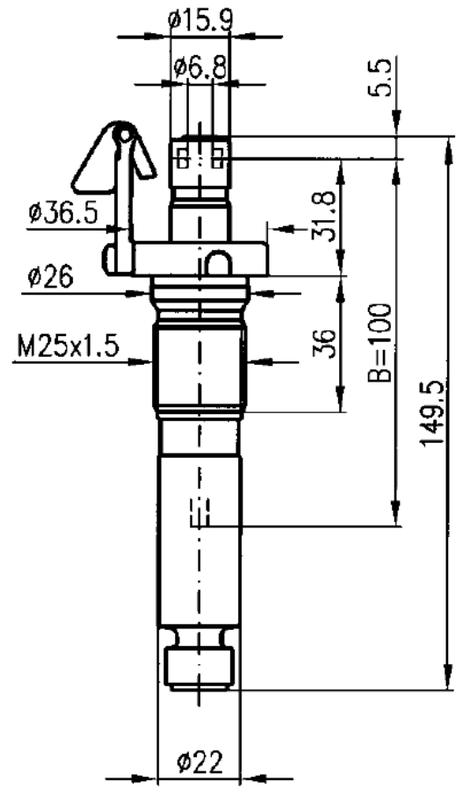
Examples for the possible design of CS1 S:



**CS1 S -
Version hookless**



**CS1 S -
Version hookless**



**CS1 S -
Version with hook**

Dimensions are in mm unless stated otherwise. Reference design data; confirm final product dimensions, operating speed and fitment against the approved drawing.

CS1 12 Compact Spindle Units

120 mm bearing distance | Hook and locking variants

APPLICATION

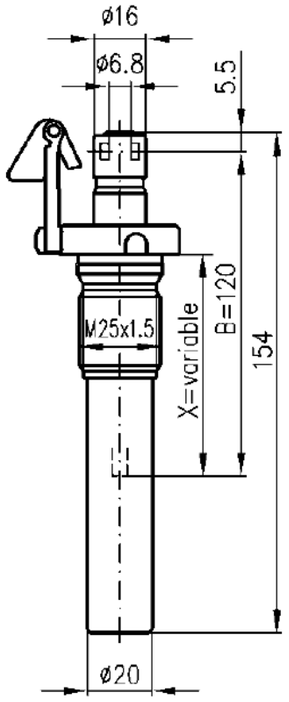
Cotton and worsted ring spinning machines for coarse yarns, suppressed yarn balloon operation and large tube sizes.

MACHINE / MILL TYPES

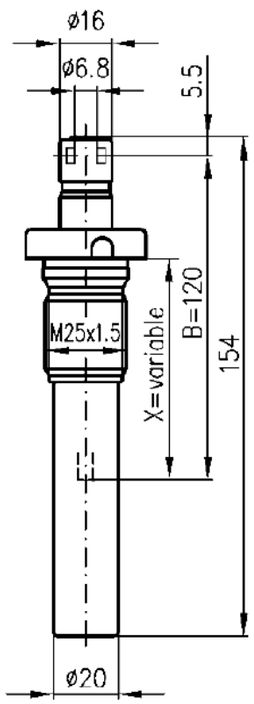
Ring spinning machines
Cotton mills
Worsted mills

SELECTION NOTES

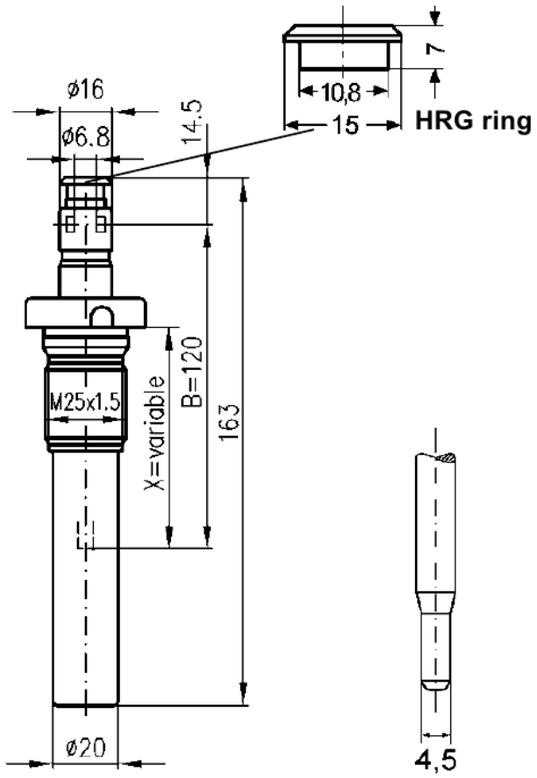
Bearing distance B = 120 mm. Reference inner-locking ring: 1257 888. Flange, hook and brake arrangements are machine-specific.



-
Version with hook



**CS1 12 -
Version hookless**



**CS1 12 -
Version with inner locking (hookless)**

Cylindrical footstep shape with spherical tip

Dimensions are in mm unless stated otherwise. Reference design data; confirm final product dimensions, operating speed and fitment against the approved drawing.

SMM Heavy Spindle Bearing Units

SMM 32-1280 013 | SMM 42-1280 014

APPLICATION

Heavy spindle bearing units for high-speed applications in draw twisting frames.

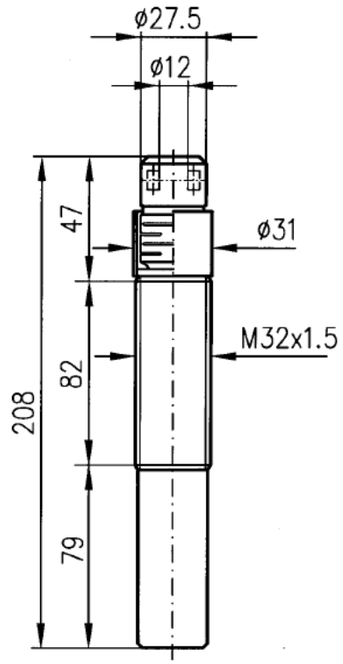
MACHINE / MILL TYPES

Draw twisting machines
Twisting mills

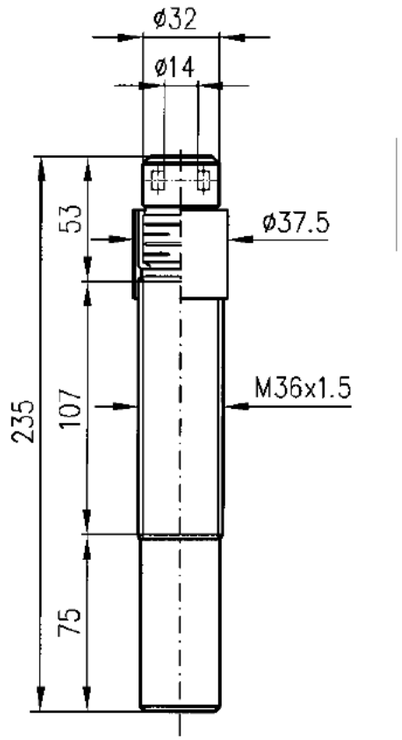
SELECTION NOTES

Reference weights: SMM 32 - 0.664 kg; SMM 42 - 1.041 kg. Confirm mounting geometry and operating requirements.

Types Ref. No	Weight kg
SMM 32-1280 013	0,664
SMM 42-1280 014	1,041



SMM 32-1280 013



SMM 42-1280 014

Dimensions are in mm unless stated otherwise. Reference design data; confirm final product dimensions, operating speed and fitment against the approved drawing.