Technical Information

TI No. WL 90-30 E  February 2001

FAG Series Housings
FAG Series Housings

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FAG Series Housings

FAG Series housings

FAG housings and the bearings for which they are suitable form bearing units which are successfully used in machines, plants and devices. However, out of the many sizes and designs available from FAG only a selection can be presented in this publication. These so-called series housings were designed for several sizes of individual bearing series. Within one and the same series the housing dimensions vary with the bearing size but the housing design is the same.

FAG series housings are available both as split and non-split plummer block housings, flanged housings or take-up housings.

Data files for series housings that were created in the CAD system can be ordered from FAG (address see cover page 4). Pictorial representations in the TI are generally in accordance with existing CAD data.

If you should need other housings or housing designs please contact FAG.

Material

Depending on the housing series the standard material of which the housing bodies are made is grey-cast iron (GG), cast steel (GS) or nodular cast iron (GGG). If a material other than the standard material is required, this has to be indicated as a suffix.

Lubrication

As the bearings are usually lubricated with grease, and the initial grease fill lasts for a long time, most housings feature no relubricating holes. There are, however, sprues for markings so that lubricating holes can be provided if necessary.

Some housings are suitable for both grease and oil lubrication whereas others are designed exclusively for oil lubrication.

Bearing seat and bearing mounting

The bearing seats in the housing are, as a rule, machined in such a way that the bearings are displaceable, i.e. they act as floating bearings. The bearings can act as locating bearings if locating rings are inserted. Housings without locating rings are available both as floating bearing housings (L) and locating bearing housings (F).

Bearings with a cylindrical bore are seated directly on the shaft. Bearings with a tapered bore (suffix K) are either mounted on the shaft with adapter sleeves or withdrawal sleeves or are seated directly on a tapered trunnion.

Coat of paint

All outer surfaces of FAG series housings and housing components that were not machined are protected by a universal coat of paint (colour RAL 7031, bluish grey). The coat of paint can be overpainted with every synthetic, polyurethane, acrylic, epoxy resin, chlorinated rubber, nitrocellulose and acid hardening hammer dimple enamel.

Sealing

The bearing housings can be sealed, depending on the operating conditions, by means of rubbing seals, non-rubbing seals or combinations of both.
FAG Series Housings
Plummer block housings

BND
Plummer block housings, non-split
Shaft diameter 60 to 420 mm
Type of lubrication: grease
Labyrinth seal (on request also Taconite seal)
Standard housing-body material: GS
Application: e.g. belt conveyors

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes</th>
<th>Bearing sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(spherical roller bearings</td>
<td>(spherical roller bearings</td>
</tr>
<tr>
<td></td>
<td>with cylindrical bore)</td>
<td>with tapered bore and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>adapter sleeve)</td>
</tr>
<tr>
<td>BND 2213 to BND 2284</td>
<td>22213E to 22284</td>
<td>22213EK to 22284K</td>
</tr>
<tr>
<td>BND 3024 to BND 3084</td>
<td>23024ES to 23084</td>
<td>23024ESK to 23084BK</td>
</tr>
<tr>
<td>BND 3122 to BND 3184</td>
<td>23122ES to 23184</td>
<td>23122ESK to 23184K</td>
</tr>
<tr>
<td>BND 3222 to BND 3284</td>
<td>23222ES to 23284</td>
<td>23222ESK to 23284BK</td>
</tr>
</tbody>
</table>

FAG publication:
Catalogue WL 41 520/3 EA
CAD files in existence
FAG Series Housings
Plummer block housings

**BNDG**
Plummer block housings, split
Shaft diameter 60 to 420 mm
Type of lubrication: grease
Labyrinth seal (on request also Taconite seal)
Standard housing-body material: GGG
Application: e.g. belt conveyors

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings with cylindrical bore)</th>
<th>Bearing sizes (spherical roller bearings with tapered bore and adapter sleeve)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNDG 2213 to BNDG 2284</td>
<td>22213E to 22284</td>
<td>22213EK to 22284K</td>
</tr>
<tr>
<td>BNDG 3024 to BNDG 3084</td>
<td>23024ES to 23084B</td>
<td>23024ESK to 23084BK</td>
</tr>
<tr>
<td>BNDG 3122 to BNDG 3184</td>
<td>23122ES to 23184</td>
<td>23122ESK to 23184K</td>
</tr>
<tr>
<td>BNDG 3222 to BNDG 3284</td>
<td>23222ES to 23284B</td>
<td>23222ESK to 23284BK</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
CAD files in existence
FAG Series Housings
Plummer block housings

BN M
Plummer block housings, non-split
Shaft diameter 140 to 400 mm
Type of lubrication: grease
Labyrinth seal
Standard housing-body material: GS
Application: e.g. mills

Housing sizes

| BN M 3232KR to BN M 3284KR | 23232ESK to 23284BK |

FAG publication:
Dimension sheet
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

FS
Plummer block housings, split
Shaft diameters 95 to 480 mm
Main dimensions standardized in DIN 22 410
Type of lubrication: grease
Labyrinth seal
Standard housing-body material: GG
Application: e.g. rope sheaves for underground mining

Housing sizes

<table>
<thead>
<tr>
<th>Housing Sizes</th>
<th>Bearing Sizes (spherical roller bearings with tapered bore and withdrawal sleeve)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS2220AH to FS2222AH</td>
<td>22220EK to 22224EK</td>
</tr>
<tr>
<td>FS2324AH to FS2334AH</td>
<td>22324ED K to 22344K</td>
</tr>
<tr>
<td>FS3252AH to FS3276AH</td>
<td>23252K to 23276BK</td>
</tr>
<tr>
<td>FS4184AH to FS41/500AH</td>
<td>24184BK 30 to 241/500BK 30</td>
</tr>
</tbody>
</table>

FAG publication:
Publ. N r. WL 14 102 DA

CAD files in existence for some housings
**FAG Series Housings**

Plummer block housings

**KPG**

Plummer block housings, split  
Shaft diameters 470 to 1250 mm  
Type of lubrication: grease  
Sealed by extreme-pressure packings  
Standard housing-body material: GS  
Application: e.g. converters

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings with tapered bore and wedge sleeve)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KPG 49/470 to KPG 49/1250</strong></td>
<td><strong>249/500K30 to 249/1320K30</strong></td>
</tr>
</tbody>
</table>

FAG publication:  
Publ. No. WL 17 104/2 EA  
CAD files in existence for some housings
### FAG Series Housings
Plummer block housings

#### KPGZ
Plummer block housings, split
Shaft diameters 500 to 1320 mm
Type of lubrication: grease
Sealed by extreme-pressure packings
Standard housing-body material: GS
Application: e.g. converters

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings with cylindrical bore)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPGZ49/500 to KPGZ49/1320</td>
<td>249/500 to 249/1320</td>
</tr>
</tbody>
</table>

FAG publication:
Publ. No. WL 17 104/2 EA
CAD files in existence for some housings
**FAG Series Housings**

Plummer block housings

### LOE

Plummer block housings, split
Shaft diameters 50 to 240 mm
Type of lubrication: oil sump
Labyrinth seal
Standard housing-body material: GG
Application: e.g. ventilators

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOE214 to LOE248</td>
<td>22214E to 22248B (bearings with cylindrical bore)</td>
</tr>
<tr>
<td>LOE310 to LOE336</td>
<td>22310E to 22336</td>
</tr>
<tr>
<td>LOE517 to LOE548</td>
<td>22217EK to 22248BK (bearings with tapered bore and adapter sleeve)</td>
</tr>
<tr>
<td>LOE614 to LOE636</td>
<td>22314EK to 22336K</td>
</tr>
</tbody>
</table>

FAG publication:
Catalogue WL 41 520/3 EA
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

LOU
Plummer block housings, split
Shaft diameters 50 to 240 mm
Type of lubrication: oil circulation
Labyrinth seal
Standard housing-body material: GG
Application: e.g. ventilators

Housing sizes | Bearing sizes (spherical roller bearings with cylindrical bore)
---|---
LOU214 to LOU248 | 22214E to 22248B
LOU310 to LOU336 | 22310E to 22336

FAG publication:
Dimension sheet
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

MGO
Plummer block housings, split
Shaft diameters 125 to 400 mm
Type of lubrication: oil sump
Labyrinth seal
Standard housing-body material: GGG
Application: e.g. mills

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings with tapered bore and withdrawal sleeve)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGO 3130AH to MGO 3184AH</td>
<td>23130ESK to 23184K</td>
</tr>
<tr>
<td>MGO 3228K to MGO 3284K</td>
<td>23228ESK to 23284BK</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

NGO
Plummer block housings, split
Shaft diameters 80 to 160 mm
Type of lubrication: oil sump
Labyrinth seal
Standard housing-body material: GGG
Application: e.g. emergency power generating units

Housing sizes

<table>
<thead>
<tr>
<th>NGO 2216 to NGO 2232</th>
<th>Bearing sizes (spherical roller bearings)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>22216E to 22232E</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
**FAG Series Housings**

**Plummer block housings**

**PM**

Plummer block housings, split  
Shaft diameters 115 to 670 mm  
Type of lubrication: oil sump (oil circulation possible after conversion)  
Labyrinth seal  
Standard housing-body material: GG  
Application: e.g. paper machines

**Housing sizes**

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Type of lubrication: oil sump (oil circulation possible after conversion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM 3026 to PM 30/710</td>
<td>23026ESK to 230/710BK</td>
</tr>
</tbody>
</table>

FAG publication:  
Publ. Nr. WL 13104 DA  
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

PM D
Plummer block housings, split (locating bearings)
Shaft diameters 180 to 300 mm
Type of lubrication: oil circulation (oil sump with additional, external oil tank)
Gap-type seal with oil flinger edges
Standard housing-body material: GG
Application: e.g. paper machines

Housing sizes | Bearing sizes (spherical roller bearings with tapered bore)
---|---
PM D 3136 to PM D 3160 | 23136ESK to 23160BK

FAG publication:
TI No. WL 13-1 E-D
CAD files in existence
FAG Series Housings
Plummer block housings

PM DR
Plummer block housings, non-split (floating bearings)
Shaft diameters 180 to 300 mm
Type of lubrication: oil circulation (oil sump with additional, external oil tank)
Gap-type seal with oil flinger edges
Standard housing-body material: GG
Application: e.g. paper machines

Housing sizes

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings with tapered bore)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM DR3136 to PM DR3160</td>
<td>23136ESK to 23160BK</td>
</tr>
</tbody>
</table>

FAG publication:
TI No. WL 13-1 E-D
CAD files in existence
FAG Series Housings
Plummer block housings

RA
Plummer block housings, split
Shaft diameters 135 to 480 mm
Type of lubrication: grease
Labyrinth seal
Standard housing-body material: GG
Application: e.g. pinion drives

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RA3028 to RA30/500</td>
<td>23028ES to 230/500B</td>
<td>(bearings with cylindrical bove)</td>
</tr>
<tr>
<td>RA3940 to RA39/500</td>
<td>23940 to 239/500</td>
<td></td>
</tr>
<tr>
<td>RA3028AH to RA30/500AH</td>
<td>23028ESK to 230/500BK</td>
<td>(bearings with tapered bove and withdrawal sleeve)</td>
</tr>
<tr>
<td>RA3940AH to RA39/500AH</td>
<td>23940K to 239/500K</td>
<td></td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

RLE
Plummer block housings, split
Shaft diameters 100 to 500 mm
Type of lubrication: grease
Labyrinth seal
Standard housing-body material: GG
Application: e.g. support rollers

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLE4122 to RLE41/500</td>
<td>24122ES to 241/500B (bearings with cylindrical bore)</td>
</tr>
<tr>
<td>RLE4122AH to RLE41/500AH</td>
<td>24122ESK 30 to 241/500BK 30 (bearings with tapered bore and withdrawal sleeve)</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet

CAD files in existence for some housings
FAG Series Housings
Plummer block housings

S30
Plummer block housings, split
Shaft diameters 110 to 450 mm
Main dimensions standardized in ISO 113
Type of lubrication: grease
Felt seal
Standard housing-body material: GG
Application: e.g. general machine construction

Housing sizes | Bearing sizes (spherical roller bearings with tapered bore and adapter sleeve)
---|---
S3024K to S3096K | 23024ESK to 23096K

FAG publication:
Catalogue WL 41 520/3 EA
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

S39
Plummer block housings, split
Shaft diameters 110 to 380 mm
Type of lubrication: grease
Felt seal
Standard housing-body material: GG
Application: e.g. general machine construction

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings with tapered bore and adapter sleeve)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3924K to S3980K</td>
<td>23924SK to 23980BK</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
FAG Series Housings
Plummer block housings

**SD**
Plummer block housings, split
Shaft diameters 135 to 320 mm
Type of lubrication: grease
Felt seal
Standard housing-body material: GG
Application: e.g. general machine construction

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD 530 to SD 564</td>
<td>22230EK to 22264K (bearings with tapered bore and adapter sleeve)</td>
</tr>
<tr>
<td>SD 630 to SD 656</td>
<td>22330ED K to 22356K</td>
</tr>
<tr>
<td>SD N 230 to SD N 264</td>
<td>22230E to 22264 (bearings with cylindrical bore)</td>
</tr>
<tr>
<td>SD N 330 to SD N 356</td>
<td>22330ED to 22356</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

SD 31
Plummer block housings, split
Shaft diameters 150 to 450 mm
Typ of lubrication: grease
Labyrinth seal
Standard housing-body material: GG
Application: e.g. general machine construction

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (spherical roller bearings with tapered bore and adapter sleeve)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD 3134TS to SD 3196TS</td>
<td>23134ESK to 23196K</td>
</tr>
</tbody>
</table>

FAG publication:
Catalogue WL 41 520/3 EA
CAD files in existence for some housings
**FAG Series Housings**

**Plummer block housings**

**SDK**

Plummer block housings, split  
Shaft diameters 320 to 450 mm  
Type of lubrication: grease  
Labyrinth seal  
Standard housing-body material: GG  
Application: e.g. general machine construction

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**Housing sizes**  
**Bearing sizes (spherical roller bearings with tapered bore)**

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SDK3168TS to SDK3196TS</strong></td>
<td>23168BK to 23196K</td>
</tr>
</tbody>
</table>

FAG publication:  
Dimension sheet  
CAD files in existence for some housings
FAG Series Housings
Plummer block housings

SNV
Plummer block housings, split
Shaft diameters 20 to 160 mm
Main dimensions standardized in ISO 113 and DIN 736 to 739
Type of lubrication: grease and oil (oil sump and circulation)
Two-lip seal DH, or optionally labyrinth seal TSV, felt seal FSV, combined seal TCV

Standard housing-body material: GG
Application: e.g. general machine construction

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNV052 to SNV340</td>
<td>21305E to 21322E (spherical roller bearings)</td>
</tr>
<tr>
<td></td>
<td>22205E to 22232E (spherical roller bearings)</td>
</tr>
<tr>
<td></td>
<td>22308E to 22332E (spherical roller bearings)</td>
</tr>
<tr>
<td></td>
<td>23218ES to 23232ES (spherical roller bearings)</td>
</tr>
<tr>
<td></td>
<td>1205 to 1222 (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>1305 to 1320 (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>2205 to 2220 (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>2305 to 2320 (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>20205 to 20232 (barrel roller bearings)</td>
</tr>
<tr>
<td></td>
<td>20305 to 20330 (barrel roller bearings)</td>
</tr>
<tr>
<td></td>
<td>also with tapered bore</td>
</tr>
</tbody>
</table>

FAG publication:
Catalogue WL 41 520/3 EA
Publ. No. WL 90 118/3 EA
CAD files in existence
FAG Series Housings
Plummer block housings

TN
Plummer block housings, split
Shaft diameters 20 to 60 mm
Type of lubrication: grease
Gap-type seal or felt seal
Standard housing-body material: GG
Application: e.g. agricultural and construction machines

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (self-aligning ball bearings)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TN 204 to TN 212</strong></td>
<td>11204 to 11212</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
**FAG Series Housings**

**Plummer block housings**

**TVN**
Plummer block housings, non-split
Shaft diameters 20 to 90 mm
Type of lubrication: grease
Felt seal
Standard housing-body material: GG
Application: e.g. mine cars

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TVN 204 to TVN 218</strong></td>
<td>1204 to 1218 (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>20204 to 20218 (barrel roller bearings)</td>
</tr>
<tr>
<td><strong>TVN 304 to TVN 316</strong></td>
<td>1304 to 1316 (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>20304 to 20316 (barrel roller bearings)</td>
</tr>
<tr>
<td></td>
<td>21304E to 21316E (spherical roller bearings)</td>
</tr>
</tbody>
</table>

FAG publication:
Dimension sheet
CAD files in existence for some housings
**FAG Series Housings**

**Plummer block housings**

**VO**

Plummer block housings, non-split
Shaft diameters 40 to 120 mm
Type of lubrication: oil sump
Gap-type seal with oil flinger edges
Standard housing-body material: GG
Application: e.g. ventilators

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>VO S308 to VO S319</td>
<td>NU 308E/6308 to NU 319E/6319</td>
</tr>
<tr>
<td>VO S220 to VO S224</td>
<td>NU 220E/6220 to NU 224E/6224</td>
</tr>
<tr>
<td>(cylindrical roller bearing/deep groove ball bearing)</td>
<td></td>
</tr>
<tr>
<td>VO B308 to VO B319</td>
<td>NU 308E/2x7308.B.UA to NU 319E/2x7319B.UA</td>
</tr>
<tr>
<td>VO B220 to VO B224</td>
<td>NU 220E/2x7220.B.UA to NU 224E/2x7224B.UA</td>
</tr>
<tr>
<td>(cylindrical roller bearing/2 angular contact ball bearings)</td>
<td></td>
</tr>
<tr>
<td>VO G308 to VO G319</td>
<td>2xNU 308E/6308 to 2xNU 319E/6319</td>
</tr>
<tr>
<td>VO G220 to VO G224</td>
<td>2xNU 220E/6220 to 2xNU 224E/6224</td>
</tr>
<tr>
<td>(2 cylindrical roller bearings/deep groove ball bearing)</td>
<td></td>
</tr>
<tr>
<td>2xNU 308E/QJ308 to 2xNU 319E/QJ319</td>
<td></td>
</tr>
<tr>
<td>2xNU 220E/QJ220 to 2xNU 224E/QJ224</td>
<td></td>
</tr>
<tr>
<td>(2 cylindrical roller bearings/four point bearing)</td>
<td></td>
</tr>
<tr>
<td>2xNU 308E/7308B to 2xNU 319E/7319B</td>
<td></td>
</tr>
<tr>
<td>2xNU 220E/7220B to 2xNU 224E/7224B</td>
<td></td>
</tr>
<tr>
<td>(2 cylindrical roller bearings/angular contact ball bearing)</td>
<td></td>
</tr>
</tbody>
</table>

**FAG publication:** Dimension sheet

**CAD files in existence for some files**
FAG Series Housings
Plummer block housings

VR3
Plummer block housings, non-split
Shaft diameters 25 to 120 mm
Type of lubrication: grease
Felt seal and V-ring seals
Standard housing-body material: GG
Application: e.g. ventilators, conveyors, belt gears, textile machines

Plummer block units | Housing sizes | Bearing sizes
-------------------|--------------|-----------------
VRE305A to VRE324A | VR305A to VR324A | 6305 to 6324
                  |              | (2 deep groove ball bearings)
VRE305B to VRE324B | VR305A to VR324A | NJ305E to NJ324E/6305 to 6324
                  |              | (cylindrical roller bearing/deep groove ball bearing)
VRE305C to VRE324C | VR305C to VR324C | NU305E to NU324E/2x7305B.UA to 2x7324B.UA
                  |              | (cylindrical roller bearing/2 angular contact ball bearings)
VRE305D to VRE324D | VR305D to VR324D | NU305E to NU324E/6305 to 6324
                  |              | (cylindrical roller bearing/deep groove ball bearing)
VRE305E to VRE324E | VR305E to VR324E | 2xNU305E to 2xNU324E/6305 to 6324
                  |              | (2 cylindrical roller bearings/deep groove ball bearing)
VRE305F to VRE316F | VR305F to VR316F | 6305 to 6316
                  |              | (2 deep groove ball bearings)

FAG publications: Catalogue WL 41 520/3 EA, Publ. No. WL 90 121/2 EA
CAD files in existence for some housings
FAG Series Housings
Flanged housings

**F112**
Flanged housings
Shaft diameters 20 to 60 mm
Type of lubrication: grease
Gap-type seal or felt seal
Standard housing-body material: GG
Application: e.g. general machine construction

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes (self-aligning ball bearings)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F11204 to F11212</td>
<td>11204 to 11212</td>
</tr>
</tbody>
</table>

FAG publication:
Catalogue WL 41 520/3 EA
FAG Series Housings
Flanged housings

F5
Flanged housings
Shaft diameters 20 to 100 mm
Type of lubrication: grease
Felt seal
Standard housing-body material: GG
Application: e.g. general machine construction

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>F505 to F522</strong></td>
<td>1205K to 1222K (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>2205K to 2222K (self-aligning ball bearings)</td>
</tr>
<tr>
<td></td>
<td>20205K to 20222K (barrel roller bearings)</td>
</tr>
<tr>
<td></td>
<td>22205EK to 22222EK (spherical roller bearings)</td>
</tr>
</tbody>
</table>

FAG publication:
Catalogue WL 41 520/3 EA
**FAG Series Housings**

Flanged housings

**FER**

Flanged housings  
Shaft diameters 100 to 400 mm  
Type of lubrication: grease  
Labyrinth seal  
Standard housing-body material: GGG  
Application: e.g. big electric machines

<table>
<thead>
<tr>
<th>Housing sizes</th>
<th>Bearing sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FERS020 to FERS080</td>
<td>NU 1020 to NU 1080 (cylindrical roller bearings)</td>
</tr>
<tr>
<td>FERS220 to FERS280</td>
<td>NU 220E to NU 280 (cylindrical roller bearings)</td>
</tr>
<tr>
<td>FERS320 to FERS380</td>
<td>NU 320E to NU 380 (cylindrical roller bearings)</td>
</tr>
<tr>
<td>FERB020 to FERB080</td>
<td>NU 1020 to NU 1080/6020 to 6080 (cylindrical roller bearing/deep groove ball bearing)</td>
</tr>
<tr>
<td>FERB220 to FERB280</td>
<td>NU 220E to NU 280/6220 to 6280 (cylindrical roller bearing/deep groove ball bearing)</td>
</tr>
<tr>
<td>FERB320 to FERB380</td>
<td>NU 320E to NU 380/6320 to 6380 (cylindrical roller bearing/deep groove ball bearing)</td>
</tr>
</tbody>
</table>

FAG publication:  
Publ. No. WL 01 101/4 EA  
CAD files in existence for some housings
FAG Series Housings
Take-up housings

SPA
Take-up housings, non-split
Shaft diameters 45 to 400 mm
Type of lubrication: grease
Labyrinth seal (on request also Taconite seal)
Standard housing-body material: GS
Application: e.g. belt conveyors

Housing sizes | Bearing sizes (spherical roller bearings with tapered bore and adapter sleeve)
--- | ---
SPA2211K to SPA2228K | 22211EK to 22228EK
SPA3028K to SPA3056K | 23028ESK to 23056BK
SPA3132K to SPA3176K | 23132ESK to 23176K
SPA3222K to SPA3284K | 23222ESK to 23284BK

FAG publication:
Dimension sheet
CAD files in existence
FAG Series Housings

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