SKF bearing other characteristics

1) Tolerance level

/CLN - equivalent to ISO tolerance class 6X for metric tapered roller bearings (with reduced tolerances).

/CL0 - equivalent to ISO0 tolerance for inch tapered roller bearings.

/CL3 - equivalent to ISO3 tolerance for inch tapered roller bearings. /CL7A - Tapered roller bearings that meet the differential bearing configuration standards.

/CL7C - Tapered roller bearings that meet the special standards for differential bearing configurations.

/P4 - Dimensions and rotation accuracy in accordance with ISO4 tolerance (p5 accuracy).

/P4A - Dimensional accuracy meets ISO4 tolerances, and rotation accuracy is equivalent to AFBMA standard ABEC9.

/P5 - Dimensional rotation accuracy meets ISO5 tolerance (accuracy is higher than P6).

/PA9A - Dimensions and rotation accuracy are equivalent to AFBMA standard ABEC9.

/PA9B - Dimensional accuracy is equivalent to AFBMA standard ABEC9, and the rotation accuracy is higher than PA9A.

/SP - The dimensional accuracy is about P5 and the rotation accuracy is about P4.

/UP - The dimensional accuracy is about P4, and the rotation accuracy is higher than P4. 2) SKF bearing clearance

/C1 - The clearance is in accordance with the standard set of 1 and the clearance is less than 2 sets.

/C2——The clearance is in accordance with the standard 2 groups, and the clearance is less than 0.

/C0——The clearance is in accordance with the 0 group specified by the standard. It is omitted from the code and is not indicated.

/C3——The clearance is in accordance with the 3 groups specified by the standard, and the clearance is greater than 0.

/C4——The clearance is in accordance with the 4 groups specified by the standard, and the

clearance is greater than 3 groups.

/C5——The clearance is in accordance with the 5 groups specified by the standard, and the clearance is greater than 4 groups. When the clearance code is combined with the bearing tolerance class code P4, P5 or P6, the clearance code C can be omitted. Example: P6+C2=P62
3) Special technical requirements for SKF bearings.

/Q - Optimal internal geometry and surface roughness (for tapered roller bearings).

/Q66——The vibration level is lower than the normal level standard, and the vibration peak is less than the normal level standard.

/QE5 - Meets the special standards for motors, with a size and rotation accuracy of P6. Very low noise.

/QE6 - Meets the standards for motors and low noise.

4) SKF bearing configuration.

/DB - Two pairable single row deep groove ball bearings, single row angular contact ball bearings or single row tapered roller bearings are mounted in pairs back to back. The number after the DB indicates the axial clearance size or the preload size at the time of installation. A - light preload (angular contact ball bearing).

B——Preload is larger than A (angular contact ball bearing).

C——Preload is larger than B (angular contact ball bearing).

CA - Small internal clearance (deep groove or angular contact ball bearings).

CB - Internal clearance is larger than CA (deep groove or angular contact ball bearing).

CC - Internal clearance is larger than CB (deep groove ball bearings).

CG - "zero" clearance (tapered roller bearings).

C...——The number behind the special axial internal clearance CC indicates the axial clearance size. GA - lighter preload (deep groove ball bearings). GB - preload is greater than CA (deep groove ball bearings).

G...——Special preload (the number after G indicates the size of the preload). Example: 6208/DBGA - indicates two back-to-back mounted deep groove ball bearings with a light load type 6208.

/DF - Two paired single row deep groove ball bearings, single row angular contact ball bearings or single row tapered roller bearings arranged face to face. The DF can be followed by the same

letter as the DB.

/DT - Two pairs of deep groove ball bearings arranged in series, single row angular contact ball bearings or single row tapered roller bearings.
5) The inner and outer rings of SKF bearings are stable in size and can be operated at the following temperatures:
/S0 - up to 150 degrees Celsius. /S1 - up to 200 degrees Celsius.

/S2 - up to 250 degrees Celsius.

/S3 - up to 300 degrees Celsius.

/S4 - up to 350 degrees Celsius.
6) Supplement to SKF bearing lubricants.
/W - Cannot replenish lubricant (no lubrication tank and oil hole).

/W20 - There are three lubrication holes in the outer ring of the bearing.

/W33——The outer ring of the bearing has a lubrication groove and three oil holes.

/W33X——The outer ring of the bearing has a lubrication groove and six oil holes.
7) SKF bearing lubricant.
The post code used to identify the type of grease filled in the bearing consists of a letter group and two numbers. The letter indicates the temperature range. The last two digits indicate the grease used. The common letter groups are as follows:

/HT—High temperature Grease (-20 degrees Celsius ~ +130 degrees Celsius).

/LHT - low / high temperature grease (-40 degrees Celsius ~ +140 degrees Celsius).

/LT - low temperature grease (-50 degrees Celsius ~ +80 degrees Celsius).

/MT - medium temperature grease (-30 degrees Celsius ~ 110 degrees Celsius). The MT post-code indicates that a particular bearing uses a non-standard grease. When the amount of grease in the bearing is different from the standard filling amount (25%~30% of the free space inside the bearing), it is identified by an additional letter:

A: The amount of grease is less than the standard amount.

B: The amount of grease is greater than the standard amount.

C: The amount of grease is greater than B. Example: 6210-2Z/HT51B - Indicates the 6210 deep groove ball bearing with two dust caps. The amount of grease is more than the standard filling amount expressed by his rear code. It can be used for high temperature.
8) Other characteristics of SKF bearings.
The letter V and another letter (such as VA) are combined with three numbers, and the Wanda

Bearing is used to identify variants of the standard design that cannot be expressed with other existing post-codes. Such as: /VA201 - kiln car bearings.

/VA301 - Cylindrical roller bearings for traction motors.