



I. Product Introduction:

Frame oil seal is specially adapted to operate under severe conditions with very large amount of fly ash, i.e. to prevent lubricant leakage in roller bearing and coal powder entering bearing cavity during agitation. The high-performance fluororubber composite material and the special treatment of the rubber effectively enhance the strength, elasticity, flexibility and high-temperature resistance of the oil seal and prolong the service life of the oil seal.

Oil seal is a mechanical component used to seal oil (oil is the most common liquid substance in transmission system and also refers to general liquid substance). It isolates the parts requiring lubrication from the output parts so that the lubrication oil does not leak out. Seals for static and dynamic seals (generally reciprocating motion) are called seals. The representative form of oil seal is TC oil seal, which is a rubber-covered double lip oil seal with self-tightening spring. Generally speaking, oil seal refers to this TC frame oil seal.

Details:

Shape: Allotype

Model: TC

Applicable scope: construction machinery, various types of cylinders;

Standard or not: Standard

Properties: abrasion resistance, high temperature resistance, corrosion resistance

Purpose: Axial Seal, Bi-directional Seal

Specifications: Various Types

Alias: TC Frame Oil Seal

Features: The outer part of the oil seal is cylindrical to ensure static sealing of the chamber - rubber outer edge with inner metal frame; The outer edges of exposed metal frames mostly require polishing and plating of anti-corrosion coatings. The spring-loaded sealing lip guarantees the dynamic and static sealing reliability of the shaft. As a result of long-term development and research, the sealing lip structure of oil seals has been improved to excellent performance, which in turn improves the sealing reliability within a wider load range by adding dust-proof lips, or by using multiple dust-proof lips in special cases, to prevent various types of oil seals from being invaded by external contaminants and dust. See: Common oil seal structural types; Common NOK Standard Oil Seal Type

II. Various Design Types of Oil Seal Outer Edge



III. Selection of Frame Oil Seal

Similar to other seal selection principles, the frame seal should be selected according to the sealing medium and working conditions.

Select the type and material of the frame oil seal. Operating conditions mainly include pressure, line speed and temperature range.

When selecting the material for the frame seal, the compatibility of the material with the working medium, the adaptability to the operating temperature range and the ability of the lip to follow the rotating shaft at high speed must be considered. In general, the temperature of lip edge is higher than that of working medium (20-50 C). Attention should be paid when selecting the oil seal material for frame.

Oil seals made of different materials have different ability to adapt to the linear speed of shaft rotation under the same diameter condition.

The linear speed range of frame oil seal is generally less than 15 mm/s.

Generally, the service pressure of common frame oil seal does not exceed 0.05MPa. When the working pressure exceeds this value, the pressure-resistant frame oil seal should be selected.

The working range of the frame oil seal is related to the materials used for the frame oil seal: the material is -40~120 C for NBR and -25~300 C for FKM.

IV. Assembly of oil seal for frame:

Precautions for assembly of frame oil package:

1. Keep the frame seal dry from collection to assembly.
2. Check the frame oil seal before assembling and check whether the dimensions of each part of the oil seal match the dimensions of shaft and cavity. Before installing the oil seal, the diameter of the shaft should be clearly compared with the inside diameter of the oil seal to match. The dimensions in the chamber should be appropriate for the outer diameter width of the oil seal. Check lip of oil seal for damage, deformation, spring falling off and rusting. To prevent oil seals from being crushed and impacted by external forces during transport and to destroy their true roundness.
3. Procedure for machining inspection before assembly. Measure whether the dimensions of cavity and shaft parts are correct, especially inner chamfer.

There must be no gradient. Shaft and cavity end surface processing should be smooth, chamfered without damage and burr. Clean the assembly area. There should be no burr, sand, iron chips and other impurities in the part of the loading (chamfered) of the shaft, which will cause irregular damage to the lip of the oil seal. R angle is recommended for chamfered part.

4. In terms of operation technique, you can feel whether it is smooth and round by hand.

5. Do not tear the package paper too early before the oil seal is installed to prevent debris from attaching to the oil seal surface and getting into work.

6. Before installing the machine, the oil seal should be coated with lithium ester with molybdenum disulfide between the lips in an appropriate amount to prevent dry abrasion of the lip when the shaft is started instantaneously, which will affect the interference of the lip and should be assembled as soon as possible. If the oil seal is not installed immediately, it is recommended to cover it with a cloth to prevent foreign bodies from attaching to the oil seal. Hands or tools coated with lithium grease must be clean.

7. Oil seals should be plain and not inclined. Oil pressure equipment or sleeve tools are recommended for installation. Pressure should not be too great, speed should be even and slow.

8. Mark the rig of this oil seal for tracing and pay close attention to the whole process. Oil seal is a precision element, and improper assembly and storage will affect its service performance. To prevent dust, rust and deformation, the oil seal should not be exposed to direct sunlight, nor be squeezed. Oil seals mounted on shafts should be protected against rust on shafts and seating grooves.

V. Pay attention to the following items when assembling and disassembling oil seals:

- (1) When installing oil seal, oil or lubricant should be applied and end of shaft and shoulder should be rounded.
- (2) When installing the oil seal, make sure that the lip edge end is facing the side of the sealed oil, avoid reverse assembly.
- (3) When oil seal seating hole is pushed in, special tool should be used to prevent position deflection.

TC Frame Oil Seal Dimension Specification Table

internal diameter (d)	external diameter (D)	height (b)	规格
4.5	15	5	TC-4.5X15X5
4.5	17	7	TC-4.5X17X7
5	14.5	7	TC-5X14.5X7
5	15	6	TC-5X15X6
5	16	6	TC-5X16X6
5	16	7	TC-5X16X7
5	17	7	TC-5X17X7
5	18	7	TC-5X18X7
5	18	8	TC-5X18X8
5	19	7	TC-5X19X7
5	20	7	TC-5X20X7

6	16	5	TC-6X16X5
6	16	7	TC-6X16X7
6	17	7	TC-6X17X7
6	18	7	TC-6X18X7
6	19	7	TC-6X19X7
6	20	7	TC-6X20X7
6	22	7	TC-6X22X7
6	22	8	TC-6X22X8
6.5	14.5	7	TC-6.5X14.5X7
7	16	7	TC-7X16X7
7	17	4	TC-7X17X4
7	17	7	TC-7X17X7
7	18	5	TC-7X18X5
7	18	7	TC-7X18X7
7	19	7	TC-7X19X7
7	20	7	TC-7X20X7
7	22	6	TC-7X22X6
7	22	7	TC-7X22X7
8	14	4	TC-8X14X4
8	14	5	TC-8X14X5
8	15	5	TC-8X15X5
8	16	4	TC-8X16X4
8	16	5	TC-8X16X5
8	16	7	TC-8X16X7
8	17	7	TC-8X17X7
8	18	5	TC-8X18X5
8	18	6	TC-8X18X6
8	18	7	TC-8X18X7
8	19	7	TC-8X19X7
8	20	5	TC-8X20X5
8	20	6	TC-8X20X6
8	20	7	TC-8X20X7
8	21	6	TC-8X21X6
8	22	6	TC-8X22X6
8	22	7	TC-8X22X7
8	22	10	TC-8X22X10
8	23	5	TC-8X23X5
8	23	7	TC-8X23X7
8	24	7	TC-8X24X7
8	25	7	TC-8X25X7
8	25	8	TC-8X25X8
8	26	7	TC-8X26X7
8	28	5	TC-8X28X5
8	30	6	TC-8X30X6
8	30	7	TC-8X30X7
9	16	7	TC-9X16X7
9	17	4	TC-9X17X4
9	18	7	TC-9X18X7
9	19	5	TC-9X19X5
9	19	7	TC-9X19X7
9	20	7	TC-9X20X7
9	22	7	TC-9X22X7
9	24	7	TC-9X24X7
9	25	7	TC-9X25X7
9	26	7	TC-9X26X7
9	29	7	TC-9X29X7
9	30	7	TC-9X30X7
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11	20	7	TC-11X20X7
11	21	7	TC-11X21X7
11	22	7	TC-11X22X7
11	23	7	TC-11X23X7
11	23.5	7	TC-11X23.5X7
11	25	7	TC-11X25X7
11	26	7	TC-11X26X7
11	28	7	TC-11X28X7
11	30	7	TC-11X30X7
11	30	10	TC-11X30X10
11.5	24	10	TC-11.5X24X10
11.6	24	10	TC-11.6X24X10
12	18	5	TC-12X18X5
12	19	4.5	TC-12X19X4.5
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12	22	7	TC-12X22X7
12	22	9	TC-12X22X9
12	23	7	TC-12X23X7
12	24	4.5	TC-12X24X4.5
12	24	5	TC-12X24X5
12	24	6	TC-12X24X6
12	24	7	TC-12X24X7
12	24	10	TC-12X24X10
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12	25	6	TC-12X25X6
12	25	7	TC-12X25X7
12	25	8	TC-12X25X8
12	25	10	TC-12X25X10
12	25.5	7	TC-12X25.5X7
12	26	7	TC-12X26X7
12	27	7	TC-12X27X7
12	28	7	TC-12X28X7

12	29	9	TC-12X29X9
12	30	7	TC-12X30X7
12	30	10	TC-12X30X10
12	32	5.5	TC-12X32X5.5
12	32	7	TC-12X32X7
12	32	10	TC-12X32X10
12	34	7	TC-12X34X7
12	35	7	TC-12X35X7
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12	37	7	TC-12X37X7
12.7	28.5	6.35	TC-12.70X28.5X6.35
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13	22	5	TC-13X22X5
13	22	7	TC-13X22X7
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13.8	24	5	TC-13.8X24X5
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15	42	7	TC-15X42X7
15	42	8	TC-15X42X8
15	42	10	TC-15X42X10
15	46	7	TC-15X46X7
15.5	28	7	TC-15.5X28X7
15.6	25.6	7	TC-15.6X25.6X7
16	22	4	TC-16X22X4
16	22	7	TC-16X22X7
16	24	5	TC-16X24X5
16	24	6	TC-16X24X6
16	24	6.5	TC-16X24X6.5
16	24	7	TC-16X24X7
16	25	5	TC-16X25X5
16	25	6	TC-16X25X6
16	25	7	TC-16X25X7
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16	27	6	TC-16X27X6
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16	28	6	TC-16X28X6
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16	30	4.5	TC-16X30X4.5
16	30	6	TC-16X30X6
16	30	7	TC-16X30X7
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16	40	8	TC-16X40X8
16	40	10	TC-16X40X10
16.4	20	5	TC-16.4X20X5

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17	25	6	TC-17X25X6
17	25	7	TC-17X25X7
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17	28	6	TC-17X28X6
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17	28	8	TC-17X28X8
17	29	5	TC-17X29X5
17	29	7	TC-17X29X7
17	29	8	TC-17X29X8
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17	30	6	TC-17X30X6
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18	32	7	TC-18X32X7
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18	34	7	TC-18X34X7
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19	47	7	TC-19X47X7
19	47	10	TC-19X47X10
19.05	31.75	6.35	TC-19.05X31.75X6.35
19.5	35.1	7	TC-19.5X35.1X7
19.8	30	5	TC-19.8X30X5
19.8	30	7	TC-19.8X30X7
20	25	7	TC-20X25X7
20	26	4	TC-20X26X4
20	26	5	TC-20X26X5
20	28	4	TC-20X28X4
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20	45	10	TC-20X45X10
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41	56	7	TC-41X56X7
41	64	10	TC-41X64X10
41. 28	63. 5	7. 95	TC-41. 28X63. 50X7. 95
42	50	7	TC-42X50X7
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42	75	12	TC-42X75X12
42	76	12	TC-42X76X12
42	78	10	TC-42X78X10
42. 85	66. 68	9. 525	TC-42. 85X66. 68X9. 525
43	55	7	TC-43X55X7
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43	55	9	TC-43X55X9
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44	70	12	TC-44X70X12
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56	72	9	TC-56X72X9
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155	185	14	TC-155X185X14
155	185	16	TC-155X185X16
155	190	15	TC-155X190X15
160	180	10	TC-160X180X10
160	180	12	TC-160X180X12

160	185	10	TC-160X185X10
160	185	13	TC-160X185X13
160	190	12	TC-160X190X12
160	190	13	TC-160X190X13
160	190	14	TC-160X190X14
160	190	15	TC-160X190X15
160	190	16	TC-160X190X16
160	200	12	TC-160X200X12
160	200	14	TC-160X200X14
160	200	15	TC-160X200X15
160	240	15	TC-160X240X15
165	190	13	TC-165X190X13
165	190	14	TC-165X190X14
165	190	15	TC-165X190X15
165	195	15	TC-165X195X15
170	190	10	TC-170X190X10
170	190	14	TC-170X190X14
170	195	15	TC-170X195X15
170	200	13	TC-170X200X13
170	200	15	TC-170X200X15
170	200	16	TC-170X200X16
170	205	15	TC-170X205X15
170	210	15	TC-170X210X15
170	210	16	TC-170X210X16
175	200	15	TC-175X200X15
175	210	15	TC-175X210X15
175	230	20	TC-175X230X20
180	200	12	TC-180X200X12
180	200	14	TC-180X200X14
180	200	15	TC-180X200X15
180	205	15	TC-180X205X15
180	210	15	TC-180X210X15
180	215	15	TC-180X215X15
180	220	15	TC-180X220X15
180	220	16	TC-180X220X16
185	210	13	TC-185X210X13
185	210	15	TC-185X210X15
185	215	15	TC-185X215X15
185	215	16	TC-185X215X16
185	240	22	TC-185X240X22
188	215	16	TC-188X215X16
188	238	16	TC-188X238X16
190	210	10	TC-190X210X10
190	210	15	TC-190X210X15
190	215	15	TC-190X215X15
190	220	15	TC-190X220X15
190	225	12	TC-190X225X12
190	225	16	TC-190X225X16
190	230	15	TC-190X230X15
190	230	16	TC-190X230X16
190	240	15	TC-190X240X15
190	250	22	TC-190X250X22
195	230	15	TC-195X230X15
195	230	16	TC-195X230X16
195	230	20	TC-195X230X20
195	231	20	TC-195X231X20
195	235	16	TC-195X235X16
195	240	15	TC-195X240X15
195	250	22	TC-195X250X22
200	225	15	TC-200X225X15
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200	230	16	TC-200X230X16
200	235	15	TC-200X235X15
200	240	15	TC-200X240X15
200	240	20	TC-200X240X20

200	250	16	TC-200X250X16
200	250	20	TC-200X250X20
203. 2	241. 3	19. 03	TC-203. 2X241. 3X19. 03
205	225	18	TC-205X225X18
205	230	16	TC-205X230X16
205	235	18	TC-205X235X18
210	240	15	TC-210X240X15
210	245	18	TC-210X245X18
210	250	15	TC-210X250X15
210	250	16	TC-210X250X16
210	255	16	TC-210X255X16
210	260	16	TC-210X260X16
210	270	16	TC-210X270X16
215	240	12	TC-215X240X12
215	240	15	TC-215X240X15
215	245	15	TC-215X245X15
215	248	15	TC-215X248X15
215	275	26	TC-215X275X26
220	250	15	TC-220X250X15
220	255	16	TC-220X255X16
220	260	14	TC-220X260X14
220	260	18	TC-220X260X18
230	255	18	TC-230X255X18
230	260	15	TC-230X260X15
230	260	20	TC-230X260X20
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240	270	15	TC-240X270X15
240	273	16	TC-240X273X16
240	280	18	TC-240X280X18
240	280	20	TC-240X280X20
250	280	15	TC-250X280X15
250	290	15	TC-250X290X15
260	280	15	TC-260X280X15
260	290	15	TC-260X290X15
260	300	18	TC-260X300X18
260	300	20	TC-260X300X20
265	290	16	TC-265X290X16
270	310	20	TC-270X310X20
275	310	15	TC-275X310X15
280	310	15	TC-280X310X15
280	320	18	TC-280X320X18
280	320	20	TC-280X320X20
285	320	20	TC-285X320X20
290	320	18	TC-290X320X18
290	330	18	TC-290X330X18
300	340	16	TC-300X340X16
300	340	18	TC-300X340X18
300	340	20	TC-300X340X20
310	350	18	TC-310X350X18
320	360	18	TC-320X360X18
320	360	20	TC-320X360X20
340	360	20	TC-340X360X20
340	380	20	TC-340X380X20
360	400	20	TC-360X400X20
380	420	20	TC-380X420X20
400	440	20	TC-400X440X20