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Truck and Trailer Parts

# Service



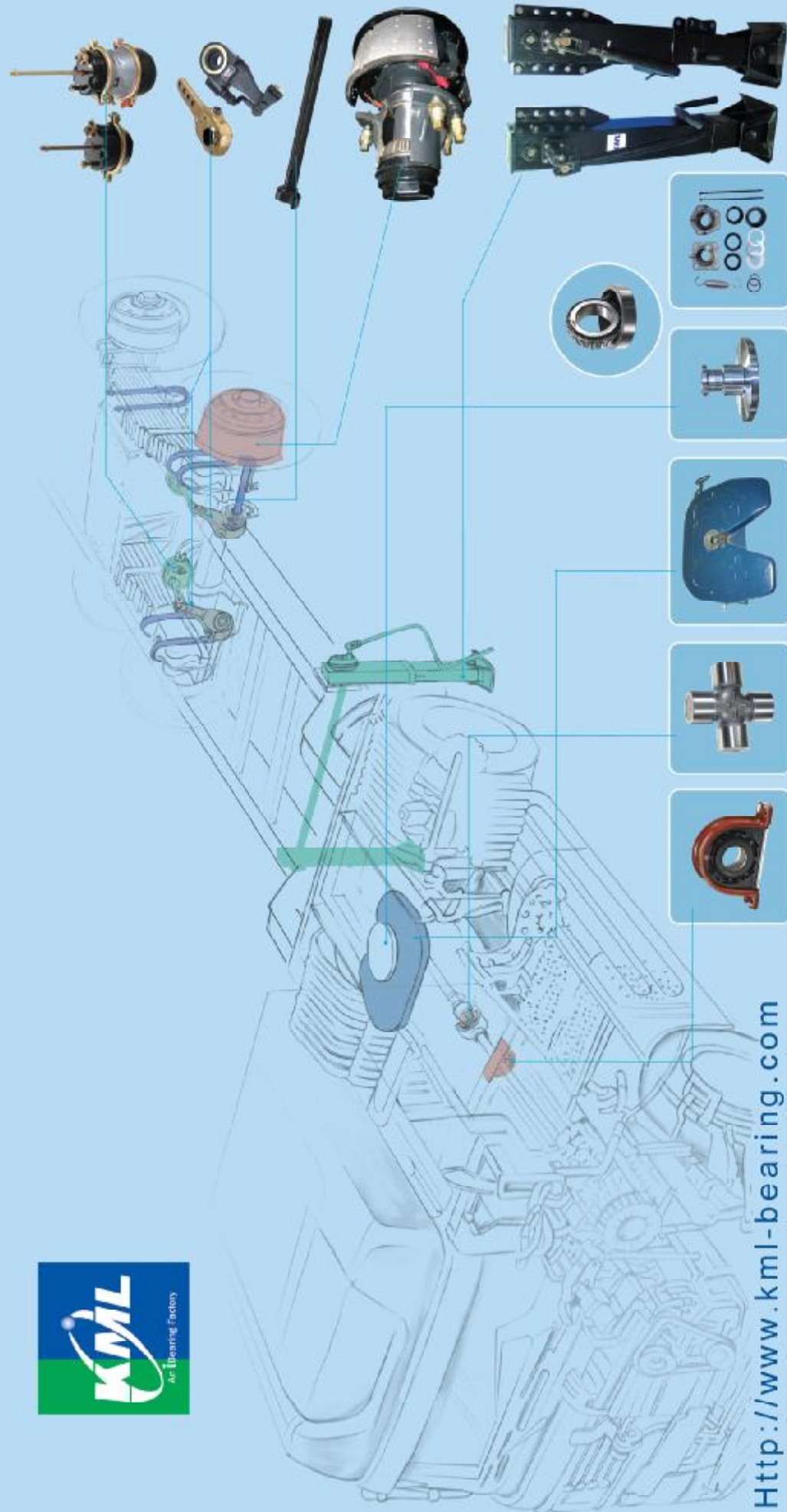
Every auto...  
Every way...



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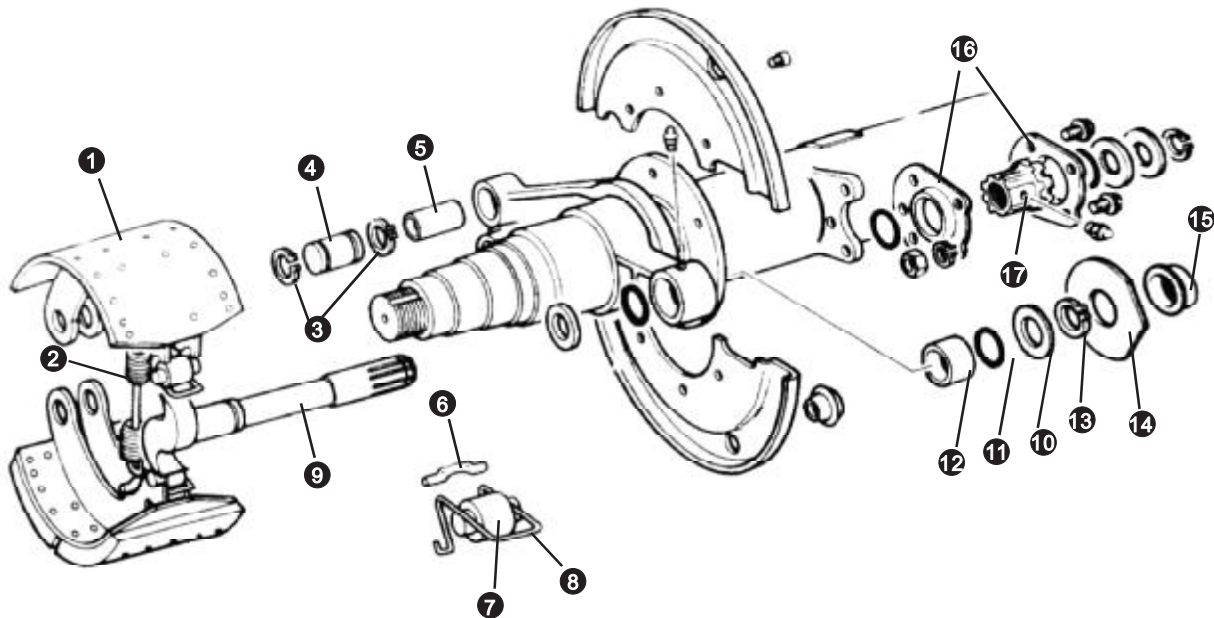
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*Every auto... Every way...*

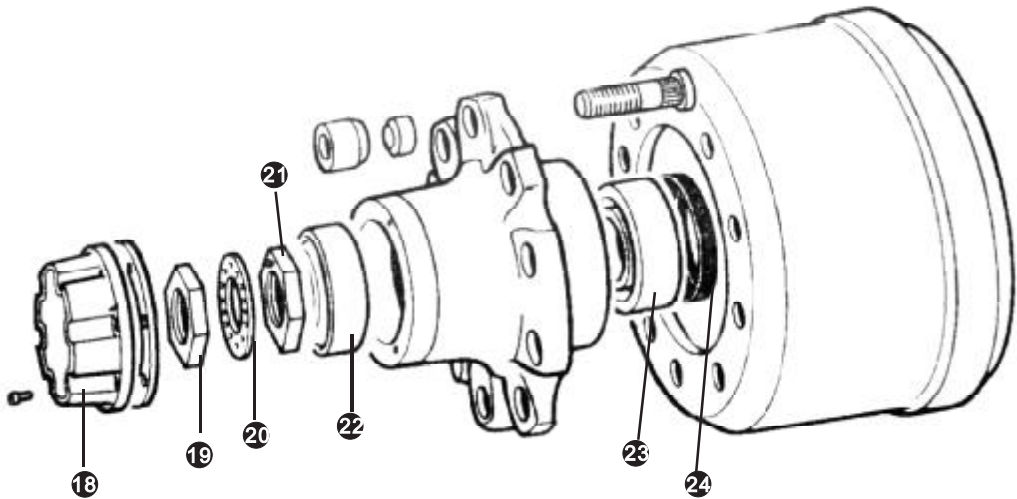




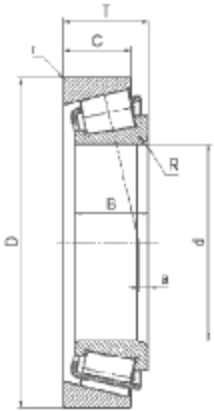
KML Wheel Bearings for Semi-trailer



- 1 Brake Shoe
- 2 Brake Return Spring
- 3 Circlip
- 4 Anchor Pin
- 5 Bush-Anchor Pin
- 6 Pin- Return Spring
- 7 Cam Roller
- 8 Clip- Cam Roller
- 9 Cam Shaft
- 10 Washer- Cam
- 11 O' Ring
- 12 Bush-Camshaft
- 13 Circlip-Cam
- 14 Dust Washer
- 15 Dust Seal Rubber
- 16 Housing- Cam Bush (pair)
- 17 Nylon Spherical Bearing



- 18 Hub Cap
- 19 Axle End Nut
- 20 Lock Washer
- 21 Bearing Adjusting Nut
- 22 Wheel Bearing(outer)
- 23 Wheel Bearing(inner)
- 24 Oil Seal



| Boundary Dimensions(mm) |         |        |        |        |                  |                  | Load Center<br>a | Mass<br>(kg) | Part No.  |           |
|-------------------------|---------|--------|--------|--------|------------------|------------------|------------------|--------------|-----------|-----------|
| d                       | D       | T      | B      | C      | R <sub>min</sub> | r <sub>min</sub> |                  |              | Cone      | Cup       |
| 65.000                  | 120.000 | 39.000 | 38.500 | 32.000 | 3.0              | 2.5              | 10.90            | 1.874        | JH211749  | JH211710  |
| 65.000                  | 120.000 | 41.000 | 41.000 | 32.000 | 2.0              | 1.5              | 7.50             | 2.020        | 33213     |           |
| 66.000                  | 124.000 | 41.500 | 41.500 | 34.000 | 7.0              | 3.5              | 12.50            | 2.200        | H212749   | H212710   |
| 66.675                  | 122.238 | 38.100 | 38.354 | 29.718 | 3.5              | 3.3              | 11.10            | 1.850        | HM212049  | HM212011  |
| 66.675                  | 136.525 | 41.275 | 41.275 | 31.750 | 3.5              | 3.3              | 11.40            | 2.650        | 641       | 632       |
| 69.850                  | 136.525 | 41.275 | 41.275 | 31.750 | 3.5              | 3.3              | 11.40            | 2.630        | 643       | 632       |
| 75.000                  | 130.000 | 41.000 | 41.000 | 31.000 | 2.0              | 1.5              | 9.00             | 2.200        | 33215     |           |
| 76.000                  | 132.000 | 39.000 | 39.000 | 32.000 | 7.0              | 3.5              | 10.00            | 2.090        | HM215249  | HM215210  |
| 80.000                  | 130.000 | 35.000 | 34.000 | 28.500 | 3.0              | 2.5              | 4.90             | 1.730        | JM515649  | JM515610  |
| 80.000                  | 130.000 | 37.000 | 37.000 | 29.000 | 2.5              | 0.8              | 7.00             | 1.930        | 33116     |           |
| 80.000                  | 140.000 | 35.250 | 33.000 | 28.000 | 2.5              | 2.0              | 4.25             | 2.180        | 32216     |           |
| 80.962                  | 150.089 | 44.450 | 46.672 | 36.512 | 5.0              | 3.3              | 12.00            | 3.430        | 740       | 742       |
| 82.000                  | 140.000 | 36.512 | 36.100 | 28.575 | 9.0              | 3.3              | -                | 2.164        | BT1-0163Q |           |
| 82.550                  | 139.992 | 36.512 | 36.098 | 28.575 | 3.5              | 3.3              | 5.50             | 2.200        | 580       | 572       |
| 82.550                  | 146.050 | 41.275 | 41.275 | 31.750 | 3.5              | 3.3              | 7.85             | 2.740        | 663       | 653       |
| 85.000                  | 150.000 | 38.500 | 36.000 | 30.000 | 2.5              | 2.0              | -                | 2.750        | 32217     |           |
| 85.000                  | 150.000 | 49.000 | 49.000 | 37.000 | 2.5              | 2.0              | 11.50            | 3.580        | 33217     |           |
| 85.026                  | 150.089 | 44.450 | 46.672 | 36.512 | 3.5              | 3.3              | 12.00            | 3.250        | 749       | 742       |
| 85.725                  | 146.050 | 41.275 | 41.275 | 31.750 | 3.5              | 3.3              | 8.00             | 2.650        | 665       | 653       |
| 95.250                  | 152.400 | 39.688 | 36.322 | 30.162 | 5.0              | 3.3              | 2.60             | 2.510        | 594A      | 592A      |
| 88.900                  | 152.400 | 39.688 | 39.688 | 30.163 | 6.4              | 3.3              | 2.60             | 2.840        | HM518445  | HM518410  |
| 88.900                  | 161.925 | 47.625 | 48.260 | 38.100 | 3.5              | 3.3              | 12.00            | 4.090        | 759       | 752       |
| 89.974                  | 146.975 | 40.000 | 40.000 | 32.500 | 7.0              | 3.5              | 8.60             | 2.550        | HM218248  | HM218210  |
| 89.974                  | 146.975 | 40.000 | 40.000 | 32.500 | 7.0              | 3.5              | 8.60             | 2.600        | HM218248E | HM218210E |
| 90.000                  | 145.000 | 35.000 | 34.000 | 27.000 | 6.0              | 2.5              | 2.00             | 2.130        | JM718149A | JM718110  |
| 90.000                  | 160.000 | 42.600 | 40.000 | 34.000 | 2.5              | 2.0              | 6.60             | 3.490        | 32218     |           |
| 90.000                  | 150.000 | 45.000 | 45.000 | 35.000 | 3.0              | 1.0              | 10.00            | 3.130        | 33118     |           |
| 95.000                  | 170.000 | 45.500 | 43.000 | 37.000 | 3.0              | 2.5              | -                | 4.300        | 32219     |           |
| 100.000                 | 157.000 | 42.000 | 42.000 | 34.000 | 8.0              | 3.5              | 2.00             | 2.820        | HM220149  | HM220110  |
| 100.000                 | 180.000 | 49.000 | 46.000 | 39.000 | 3.0              | 2.5              | -                | 5.120        | 32220     |           |
| 120.000                 | 165.000 | 29.000 | 29.000 | 23.000 | 1.5              | 1.5              | -                | 1.770        | 32924     |           |



■ KML WheelBearings for European Semi-trailer

| Application  | Part No.                          | OEM                   | Position | Axle                                                 |
|--------------|-----------------------------------|-----------------------|----------|------------------------------------------------------|
| BPW          | 33215                             | 02.6407.75.00         | I/O      | BPW                                                  |
| BPW          | 32219                             | 02.6405.95.00         | I        | BPW                                                  |
| BPW          | 32222                             | 02.6405.11.00         | I/O      | BPW                                                  |
| BPW          | 32309                             | 02.6406.45.00         | O        | BPW                                                  |
| BPW          | 32314                             | 02.6406.70.00         | O        | BPW                                                  |
| BPW          | 32310                             | 02.6406.50.00         | O        | BPW                                                  |
| BPW          | 30216                             | 02.6401.76.00         | I/O      | BPW                                                  |
| BPW          | 33217                             | 02.6407.85.00         | I        | BPW                                                  |
| BPW          | 33116                             | 02.6408.80.00         | I        | BPW                                                  |
| BPW          | 33118                             | 02.6408.90.00         | I        | BPW                                                  |
| BPW          | 33213                             | 02.6407.65.00         | O        | BPW                                                  |
| Fruehauf     | HM218248/10E<br>Ref.: BT1B639416A | CF103029 &<br>MO03168 | I/O      | Fruehauf(SMB)                                        |
| Fruehauf     | HM518445/10                       | CF100135              | I/O      | CF Propar, Fruehauf P, PS,<br>PSL and P13 type axles |
| LOHR         | 32216                             | A09030209             | I/O      | LOHR                                                 |
| LOHR         | 32214                             | Y00002330             | O        | LOHR                                                 |
| LOHR         | 32218                             | 0032.218              | I        | LOHR                                                 |
| ROR, Meritor | 641/632                           | 99041025              | O        | U Series                                             |
| ROR, Meritor | 665/653                           | 99041034              | I        | U Series Moss Imperial axles                         |
| ROR, Meritor | 663/653                           | 99041022              | I        | U Series 20,000lb axles                              |
| ROR, Meritor | 32220                             | 99041057              | I        |                                                      |
| ROR, Meritor | BT1-0163/Q<br>Ref.: NP024261      | 99041075              | I/O      | LM                                                   |
| ROR, Meritor | 33213                             | 99041045              | O        | TM Series                                            |
| ROR, Meritor | HM218248/10                       | 99041035              | I        | TM Series                                            |
| ROR, Meritor | 33116                             | 99041067              | O        | 9000-Genuine Meritor<br>ROR-TE Series                |
| ROR, Meritor | 32310                             | 99041068              | I        | 9000-Genuine Meritor<br>ROR-TE Series                |
| ROR, Meritor | 32218                             | 99041058              | I        | ROR                                                  |
| SAE          | 32214                             | Y00002330             |          | SAE                                                  |
| SAF          | 30313                             |                       | I        | SAF                                                  |
| SAF          | 32313                             |                       | I        | SAF                                                  |
| SAF          | 32219                             |                       | I        | SAF                                                  |
| SAF          | 32309                             |                       | O        | SAF                                                  |
| SAF          | 32314                             |                       | O        | SAF                                                  |
| SAF          | 32217                             |                       | I        | SAF                                                  |
| SAF          | 32924                             | 4.200.1010.00         | I/O      | SAF 9000 SERIES                                      |
| SAF          | HM218248/10                       | 4.200.1060.00         | O        | SAF                                                  |
| SAF          | 33213                             | 4.200.0060.00         | O        | SAF                                                  |
| SAF          | 32218                             | 520244                | I        | SAF                                                  |
| Trailor      | JM515649/10<br>Ref.: 524851A      | 6015000T              | O        | Trailor                                              |

Note: I = Inner, O = outer

■ KML Wheel Bearings for European Semi-trailer

| Application | Part No.                     | OEM      | Position | Axle                 |
|-------------|------------------------------|----------|----------|----------------------|
| Trailor     | JM718149A/10<br>Ref.: 524850 | 6014000T | I        | Trailor              |
| Trailor     | 32215                        |          | I/O      | Trailor              |
| Trailor     | HM218248/10E                 |          | I/O      | Trailor              |
| York        | HM220149/10                  | 502285   | I        | York800 Series       |
| York        | 32220                        | 520243   | I        | York                 |
| York        | 33213                        | 502281   | O        | RO TM Series, HUNTON |
| York        | HM218248/10                  | 502284   | I        | YORK HUNTON          |

Note: I = Inner, O = outer

■ KML Wheel Bearings for American & Australian Semi-trailer

| Trailer        | Axle                      | Inner Cone | Inner Cup | Outer cone | Outer cup |
|----------------|---------------------------|------------|-----------|------------|-----------|
| FRUEHAUF       | PROPAR                    | HM518445   | HM518410  | HM518445   | HM518410  |
| FRUEHAUF       | ROUND AND 'I' BEAM        | 593        | 592A      | HM506348   | HM506310  |
| DANA           | 20" and 15"               | 665A       | 653       | HM212049   | HM212011  |
| STANDARD FORGE | 20" and 15"               | 663        | 653       | HM212049   | HM212011  |
| RUBERY OWEN    | EARLY SPIDER - 'T' SERIES | 663        | 653       | HM212049   | HM212011  |
| RUBERY OWEN    | LATE SPIDER - 'U' SERIES  | 665A       | 653       | HM212049   | HM212011  |
| RUBERY OWEN    | EARLY SPIDER - 'T' SERIES | 663        | 653       | 641        | 632       |
| RUBERY OWEN    | LATE SPIDER - 'U' SERIES  | 665A       | 653       | 641        | 632       |
| ROCKWELL       | TL, ATL                   | 665A       | 653       | HM212049   | HM212011  |
| ROCKWELL       | RN, TN, ATN, and 15"      | HM218248   | HM218210  | HM212049   | HM212011  |
| HAULMARK       | REYCO INGERSOLL           | 663        | 653       | HM212049   | HM212011  |
| McGRATH        | ROCKWELL                  | 665A       | 653       | HM212049   | HM212011  |
| McGRATH        | EARLY ROCKWELL            | 663        | 653       | HM212049   | HM212011  |
| FREIGHTER      | EATONE34-15"              | 665A       | 653       | HM212049   | HM212011  |
| FREIGHTER      | EATON JE-501-L, JE-07-L   | HM218248   | HM218210  | HM212049   | HM212011  |
| FREIGHTER      | ROCKWELL RN, TN, ATN      | HM218248   | HM218210  | HM212049   | HM212011  |
| FREIGHTER      | INGERSOLL A22H            | HM218248   | HM218210  | HM212049   | HM212011  |

Oil Seal Technical Information



▲ Rubber Classification & Features

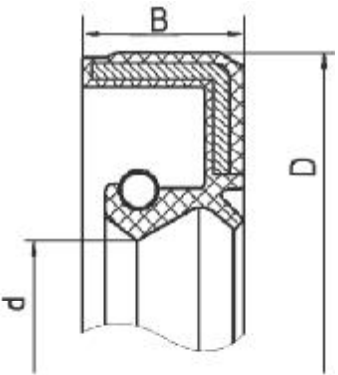
| Rubber Name              | Rubber Code | Main Features & Suitable Scope                                                                                                                                                                                                                                                                   | Main Usage                                                                                                                                                                        |
|--------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nitrile-butadiene rubber | NBR         | Excellent resistant to oil, heat, abrasion, pressure and friction. High elasticity and mechanical strength. Widely used in producing sealing products, hydraulic oil and gear oil with additive agent. Unsuitable for meeting phosphate ester series and working under sunlight and ultraviolet. | Suitable for making O Ring. Oil seal used in normal hydraulic and pneumatic elements.                                                                                             |
| Poly Acrylates rubber    | ACM         | Resistant to mid/high temperature, oil, abrasion, ultraviolet; poor water resistance. Suitable for sealing in lubricated oil, hydraulic oil, petrol with additive agent.                                                                                                                         | Suitable for various automotive oil seal, gear case and gear box.                                                                                                                 |
| Silicone rubber          | VMQ<br>PMQ  | Excellent resistant to heat and cold. Small compression set, low mechanical strength, bad bending and abrasion. Suitable for fixed seal resistant to heat and freeze. Unsuitable for working under high mechanical strength.                                                                     | Suitable for high speed rotating and food machine sealing                                                                                                                         |
| Fluoroelastomer rubber   | FKM         | Resistant to heat, oil, acid, alkaline and reagents; suitable for sealing in all lubricated oil, fuel, hydraulic oil and compound oil. Widely used in industries such as metallurgy and electric power etc.                                                                                      | Suitable for sealing in high temperature resistance, chemical resistance, flame resistance hydraulic oil. Suitable for high temperature hydraulic equipment and vacuum equipment. |

▲ Performance of Lip Material

| Rubber Code | Temperature Range | Oxidation Resistance | Sunlight Resistance | Abrasion Resistance | Cracking Resistance | Tear Resistance | Impact Strength | Compression Set |
|-------------|-------------------|----------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-----------------|
| NBR         | -30℃~120℃         | 2                    | 3                   | 2                   | 3                   | 2               | 2               | 2               |
| ACM         | -30℃~180℃         | 1                    | 1                   | 3                   | 3                   | 4               | 4               | 3               |
| PMQ<br>VMQ  | -50℃~180℃         | 1                    | 1                   | 4                   | 1                   | 4               | 3               | 2               |
| FKM         | -30℃~200℃         | 1                    | 1                   | 2                   | 2                   | 3               | 3               | 2               |

Note: 1=Excellent 2=Good 3=Fair 4=Poor

Oil Seal Tolerance



▲ Seal outside diameter Tolerance-Imperial (inch)

| Bore Diameter<br>d |    | Press-fit Allowance  |                       | Tolerance            |                       |
|--------------------|----|----------------------|-----------------------|----------------------|-----------------------|
| Over               | To | Seal with Metal O.D. | Seal with Rubber O.D. | Seal with Metal O.D. | Seal with Rubber O.D. |
| -                  | 1  | +0.004               | +0.006                | ±0.002               | ±0.003                |
| 1.001              | 2  | +0.004               | +0.007                | ±0.002               | ±0.003                |
| 2.001              | 3  | +0.004               | +0.008                | ±0.002               | ±0.003                |
| 3.001              | 4  | +0.005               | +0.010                | ±0.002               | ±0.004                |
| 4.001              | 6  | +0.005               | +0.010                | +0.003<br>-0.002     | ±0.004                |
| 6.001              | 8  | +0.006               | +0.010                | +0.003<br>-0.002     | ±0.004                |
| 8.001              | 10 | +0.008               | +0.010                | +0.004<br>-0.002     | ±0.004                |
| 10.001             | 20 | +0.008               | +0.010                | +0.006<br>-0.002     | ±0.004                |

▲ Seal outside diameter Tolerance-Metric (mm)

| Bore Diameter<br>d |     | Press-fit Allowance and Tolerance |                       |
|--------------------|-----|-----------------------------------|-----------------------|
| Over               | To  | Seal with Metal O.D.              | Seal with Rubber O.D. |
| -                  | 50  | +0.10~+0.20                       | +0.15~+0.30           |
| 50                 | 80  | +0.13~+0.23                       | +0.20~+0.35           |
| 80                 | 120 | +0.15~+0.25                       | +0.20~+0.35           |
| 120                | 180 | +0.18~+0.28                       | +0.25~+0.45           |
| 180                | 300 | +0.20~+0.30                       | +0.25~+0.45           |
| 300                | 500 | +0.23~+0.35                       | +0.30~+0.55           |

▲ Seal width Tolerance- Metric (mm)

| Width<br>B | Over |      | 10   | 18   |
|------------|------|------|------|------|
|            | To   | 10   | 18   |      |
| Tolerance  |      | ±0.2 | ±0.3 | ±0.4 |

▲ Seal width Tolerance - Imperial (inch)

| Width<br>B | Over |        | 0.25   | 0.374  | 0.562  |
|------------|------|--------|--------|--------|--------|
|            | To   | 0.25   | 0.37   | 0.562  |        |
| Tolerance  |      | ±0.008 | ±0.012 | ±0.016 | ±0.020 |



▲ Shaft and Housing Tolerance - Metric (mm)

| Dimensions Range<br>d or D |     | Shaft Tolerance |        | Housing Tolerance |        |
|----------------------------|-----|-----------------|--------|-------------------|--------|
| Over                       | To  | Lower           | Upper  | Lower             | Upper  |
|                            | 6   | 0               | -0.075 | 0                 |        |
| 6                          | 10  | 0               | -0.09  | 0                 | +0.022 |
| 10                         | 18  | 0               | -0.11  | 0                 | +0.027 |
| 18                         | 30  | 0               | -0.13  | 0                 | +0.033 |
| 30                         | 50  | 0               | -0.16  | 0                 | +0.039 |
| 50                         | 80  | 0               | -0.19  | 0                 | +0.046 |
| 80                         | 120 | 0               | -0.22  | 0                 | +0.054 |
| 120                        | 180 | 0               | -0.25  | 0                 | +0.063 |
| 180                        | 250 | 0               | -0.29  | 0                 | +0.072 |
| 250                        | 315 | 0               | -0.32  | 0                 | +0.081 |
| 315                        | 400 | 0               | -0.36  | 0                 | +0.089 |

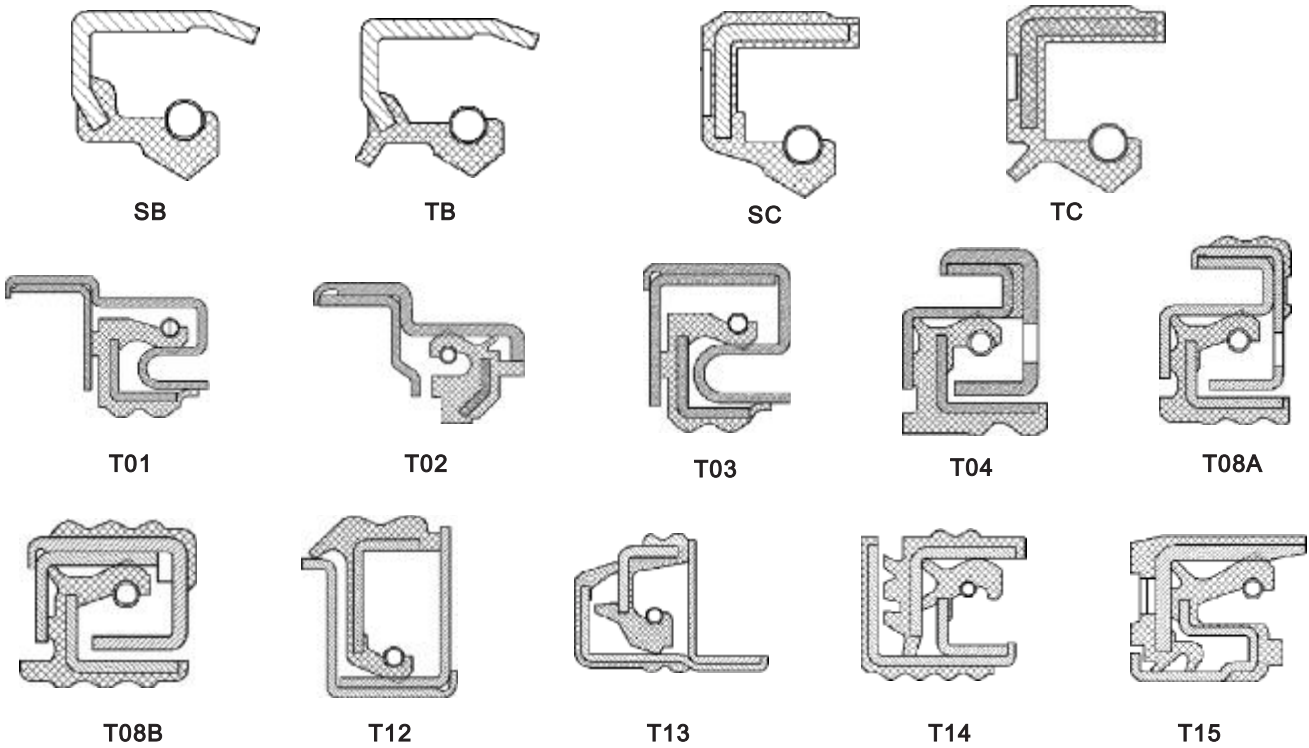
▲ Shaft Tolerance - Imperial (inch)

| Shaft Diameter | Over |        | 4      | 6      | 10     |
|----------------|------|--------|--------|--------|--------|
|                | To   |        | 4      | 6      | 10     |
| Tolerance      |      | ±0.003 | ±0.004 | ±0.005 | ±0.006 |

▲ Housing Tolerance -Imperial (inch)

| Bore Diameter | Over |        | 3       | 6      | 10               | 20               |
|---------------|------|--------|---------|--------|------------------|------------------|
|               | To   |        | 3       | 6      | 10               | 20               |
| Tolerance     |      | ±0.001 | ±0.0015 | ±0.002 | +0.002<br>-0.004 | +0.002<br>-0.006 |

▲ Configurations:



▲ Oil Seal Specification:

| Part No.                  | Shaft Diameter (mm) | Bore Diameter (mm) | Width (mm) | Type | Cross Ref. |
|---------------------------|---------------------|--------------------|------------|------|------------|
| SC 2.062 x2.625 x 0.312   | 52.37               | 66.68              | 7.92       | SC   | VKR15586   |
| SC 1.375 x2.125 x 0.313   | 34.93               | 54                 | 7.95       | SC   | VKR15911   |
| TC 40 x 55 x 8            | 40                  | 55                 | 8          | TC   | VKR15416   |
| TC 1.43 x2.06 x 0.31      | 36.32               | 52.32              | 7.87       | TC   | VKR15113   |
| BJ129 1.75 x2.375 x 0.375 | 44.45               | 85.73              | 9.53       | TC   | VKR15414   |
| TC40628                   | 38.4                | 62.22              | 8          | TC   |            |
| SC376 262 50              | 64.6                | 95.25              | 12.7       | SC   |            |
| TC356512                  | 32.9                | 34.8               | 65.25      | TC   |            |

| Part No.     | Reference No.     | Shaft (inch) | Bore (inch) | Width (inch) | Application                    |
|--------------|-------------------|--------------|-------------|--------------|--------------------------------|
| BH3502031    | SOA18111          | 1.488        | 1.874       | 0.256        | York-13T                       |
| 370011A      | T03009; CR# 36365 | 3.125        | 4.5         | 0.605        | Light duty trailer's axle seal |
| 370001A      | T02018; CR# 35066 | 3.5          | 4.842       | 0.925        | Light duty trailer's axle seal |
| 456618       | T02104            | 3.875        | 5.691       | 0.938        | Light duty trailer's axle seal |
| 370066A      | T03029; CR# 40086 | 4.0          | 5.626       | 0.605        | Light duty trailer's axle seal |
| 370036A      | T21032            | 4.0          | 5.757       | 0.93         | Light duty trailer's axle seal |
| 376590X-3957 | T04122H           | 4.25         | 6.0         | 0.68         | FUWA-13T                       |
| 370065A      | T05037            | 4.25         | 6.008       | 1.0          | Light duty trailer's axle seal |
| 376590A      | T21039            | 4.25         | 6.048       | 0.68         | Light duty trailer's axle seal |
| 370031A      | CR# 42672         | 4.25         | 6.25        | 1.375        |                                |



▲ Oil Seal Specification:

| Part No. | Reference No.                 | Shaft<br>(inch) | Bore<br>(inch) | Width<br>(inch) | Application                    |
|----------|-------------------------------|-----------------|----------------|-----------------|--------------------------------|
| 370031A  | CR# 42672                     | 4.25            | 6.25           | 1.375           |                                |
| 006635S  | T02099                        | 4.375           | 6.008          | 1.047           | Light duty trailer's axle seal |
| 370019A  | CR# 43860                     | 4.375           | 6.251          | 0.605           |                                |
| 370131A  | T05050; CR# 45103             | 4.5             | 5.876          | 0.984           | Light duty trailer's axle seal |
| 786114   | T21056                        | 4.625           | 5.999          | 0.912           | York-13T(OIL)                  |
| 370025A  | T02056; 601735M;<br>CR# 46305 | 4.625           | 5.999          | 1.0             |                                |
| 370005A  | T21063; CR# 48000             | 4.765           | 6.251          | 0.605           | Light duty trailer's axle seal |
| 370003A  | T02059; CR# 47697             | 4.765           | 6.311          | 1.187           | Light duty trailer's axle seal |
| 370069A  | T21076; CR# 52658             | 5.25            | 7.375          | 1.0             | Light duty trailer's axle seal |
| 456112A  | T04123                        | 5.375           | 7.874          | 0.787           | FUWA-20T                       |

| Part No.      | Reference No. | Shaft<br>(mm) | Bore<br>(mm) | Width<br>(mm) | Type | Application                             |
|---------------|---------------|---------------|--------------|---------------|------|-----------------------------------------|
| GS-125HT      |               | 31.750        | 50.250       | 7.000         |      | Light duty trailer                      |
| GS-1250DL     | 12192TB       | 31.750        | 50.270       | 6.350         |      | Light duty trailer                      |
| GS-1250SL     | 12192VB       | 31.750        | 50.270       | 6.350         |      | Light duty trailer                      |
| GS-1250DLR    |               | 31.750        | 50.270       | 10.310        | TC   | Light duty trailer                      |
| 378069        |               | 37.800        | 47.600       | 6.500         |      |                                         |
| GS-1500DLR    |               | 38.100        | 50.368       | 6.350         | TC   | Light duty trailer                      |
| GS-1500SL     | 15192VB       | 38.100        | 50.370       | 4.800         |      | Light duty trailer                      |
| GS-1500DL     | 15192TB       | 38.100        | 50.370       | 6.350         |      | Light duty trailer                      |
| 411008        |               | 41.100        | 55.500       | 8.000         |      | FUWA                                    |
| GS-1719DL     | 171255TB      | 43.660        | 65.050       | 12.700        |      | Light duty trailer                      |
| GS-1719DLR    |               | 43.660        | 65.050       | 12.700        | TC   | Light duty trailer                      |
| GS-1719SL     | 171255VB      | 43.660        | 65.050       | 12.700        |      | Light duty trailer                      |
| M010543       |               | 45.000        | 72.000       | 14.0/17.0     |      |                                         |
| GS-2125DLR    |               | 53.975        | 85.620       | 9.525         | TC   | Light duty trailer                      |
| GS-2125DL     | 21333TB       | 53.980        | 85.620       | 7.950         |      | Light duty trailer                      |
| GS-2125SL     | 21333VB       | 53.980        | 85.650       | 9.520         |      | Light duty trailer                      |
| GS-2250DLR    |               | 56.642        | 85.650       | 9.525         | TC   | Light duty trailer                      |
| GS-2250DL     | 22333TB       | 57.150        | 85.620       | 9.520         |      | Light duty trailer                      |
| GS-2250SL     | 22333VB       | 57.150        | 85.620       | 9.520         |      | Light duty trailer                      |
| M010298       |               | 60.000        | 90.000       | 14.0/16.3     | T12  |                                         |
| 602038        |               | 76.000        | 130.000      | 19.000        |      | Passenger Car                           |
| 0219975947    |               | 85.000        | 145.000      | 12.0/37.0     |      | Benz-transmission flange                |
| OS35004842092 |               | 88.600        | 123.000      | 10.0/23.4     |      | Freightliner/Peterbilt<br>Mack/Kenworth |
| M061582       |               | 90.000        | 115.000      | 25.400        |      |                                         |
| 602037        |               | 90.000        | 126.000      | 15.0/21.0     |      | Mercedes-Benz Truck                     |
| M010493       | 370065A       | 107.400       | 153.900      | 25.200        |      |                                         |
| M010492       | 370031A       | 107.400       | 159.100      | 29.800        |      | International 46<br>Ford 800            |
| M00105        | 1503          | 107.500       | 152.700      | 23.000        |      |                                         |

▲ Oil Seal Specification:

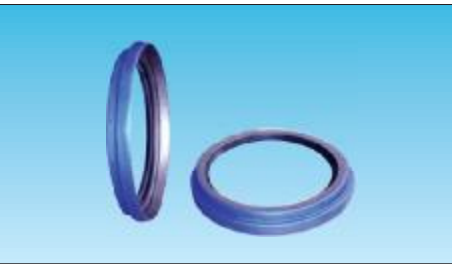
| Part No.   | Reference No.     | Shaft<br>(mm) | Bore<br>(mm)        | Width<br>(mm) | Type  | Application                 | Bearing              |
|------------|-------------------|---------------|---------------------|---------------|-------|-----------------------------|----------------------|
| M010338    | 1170101, 601735YD | 108.000       | 152.400             | 17.300        |       |                             | HM518445/10          |
| M010085    |                   | 111.000       | 152.350             | 12.800        | TC    |                             |                      |
| M010328    |                   | 117.000       | 152.200             | 21.000        |       |                             |                      |
| M00106     | 1504              | 117.000       | 152.400             | 21.000        |       |                             |                      |
| M010145    |                   | 117.000       | 152.500             | 16.500        |       |                             |                      |
| 117021     | SOM18289XX, 2110  | 117.000       | 152.500             | 21.000        |       | KIC -12T; BM-12T            |                      |
| M010346    |                   | 117.480       | 152.550             | 25.400        |       | York                        | HM218248/10          |
| 117025     | T19056A           | 117.550       | 152.360             | 25.400        |       | SAF-13T                     |                      |
| M010329    |                   | 117.550       | 152.400             | 25.400        |       |                             |                      |
| M010337    | 1170111           | 117.550       | 152.400             | 25.400        |       | SAF                         | HM218248/10          |
| M010848    | 307-0743          | 117.700       | 152.400             | 17.350        |       | York                        | HM218248/10          |
| M01031     |                   | 120.000       | 140.000             | 8.500         | TC    |                             |                      |
| M010630    |                   | 120.000       | 150.000             | 15.000        |       |                             |                      |
| M010345V   | 602039            | 120.000       | 155.000             | 19.0/23.0     |       | Passenger Car               |                      |
| M00104     | 1524              | 120.500       | 160.300             | 29.000        |       |                             |                      |
| 502776     | SOM02396          | 125.000       | 160.000             | 13.000        | SC01  | York-16T                    |                      |
| M010342    | 602019            | 125.000       | 160.000             | 13.000        | SC    | FUWA-16T                    |                      |
| 800120     | T04E001MFH        | 125.000       | 160.000             | 15.000        |       | FUWA-16T                    |                      |
| M010102    | 1170102           | 125.000       | 160.000             | 15.000        | T08A  |                             | HM220149/10<br>32218 |
| M010609    |                   | 127.000       | 165.100             | 16.000        |       |                             |                      |
| M010696    | 1170107           | 130.000       | 150.000             | 10.000        |       |                             | 33215                |
| M010628    |                   | 130.000       | 160.000             | 10.000        |       |                             |                      |
| M010527    |                   | 130.000       | 160.000             | 15.000        | TC    |                             |                      |
| 400018     |                   | 130.000       | 160.000             | 25.400        |       | SAF-16T                     |                      |
| M010333    |                   | 130.000       | 160.000             | 25.400        |       |                             |                      |
| 130017     |                   | 130.000       | 170.000             | 17.000        |       | Passenger Car               |                      |
| M010048    |                   | 130.000       | 170.000             | 17.000        | T12   |                             |                      |
| M010627    |                   | 132.000       | 172.000             | 12.000        |       |                             |                      |
| M010441    |                   | 135.000       | 156.700             | 8.0/12.0      |       |                             |                      |
| M010108    | 1170103           | 136.530       | 200.000             | 20.000        | T08A  |                             | 32222                |
| M010529    |                   | 137.000       | 161.920             | 12.0/15.0     | TB    |                             |                      |
| M010362    |                   | 138.000       | 152.000             | 12.000        | SB    |                             |                      |
| M010491    |                   | 140.000       | 165.000             | 15.000        | TC    |                             |                      |
| M010531    |                   | 141.000       | 196.000             | 24.000        |       |                             |                      |
| 601920     |                   | 145.000       | 175.000             | 17.000        |       | Mercedes-Benz Truck         |                      |
| M010165    |                   | 145.000       | 175.000             | 17.000        |       |                             |                      |
| SOM09847MF | 0209973947        | 145.000       | 175.000             | 13.000        | SC33W | Benz Rear Wheel Hub (inner) |                      |
| SOM03183MF | 0209973947        | 145.000       | 175.000             | 14.000        | SP45  | Benz Rear Wheel Hub (outer) |                      |
| SOM17724MF | 0209973947        | 145.000       | 175.0/205.09.0/14.0 |               |       |                             |                      |
| M010530    |                   | 154.000       | 180.000             | 24.0/29.0     | TB    |                             |                      |
| M010528    |                   | 158.000       | 188.000             | 14.5/16.0     |       |                             |                      |
| M010144    |                   | 160.000       | 190.000             | 15.000        | TB    |                             |                      |
| M010430PT  |                   | 165.000       | 190.000             | 12.000        |       |                             |                      |

▲ Oil Seal Specification:

| Part No. | Reference No. | Shaft (mm) | Bore (mm) | Width (mm) | Type | Application          |
|----------|---------------|------------|-----------|------------|------|----------------------|
| 601929   |               | 170.000    | 190.000   | 8.500      |      | Mercedes-Benz Truck  |
| M010039  |               | 170.000    | 190.000   | 13.000     | TB   |                      |
| M010049  |               | 170.000    | 190.000   | 13.000     | SB   |                      |
| M010629  |               | 170.000    | 200.000   | 15.000     |      |                      |
| M010027  |               | 180.000    | 200.000   | 15.000     | TB   |                      |
| M010193  |               | 190.000    | 220.000   | 15.000     | TB   | STEYR ( blue rubber) |
| M010194  |               | 190.000    | 220.000   | 15.000     | SB   | STEYR (brown rubber) |



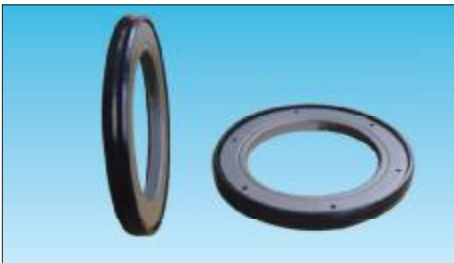
Part No.:M010102  
Size: 125x160x15mm  
For bearing: HM220149/10  
32218



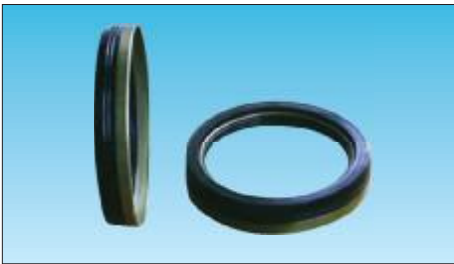
Part No.:M010328  
Size: 117x152.2x21mm



Part No.:M010338  
Size: 108x152.4x17.3mm  
For bearing: HM518445/10



Part No.:M010108  
Size: 136.53x200x20mm  
For bearing: 32222

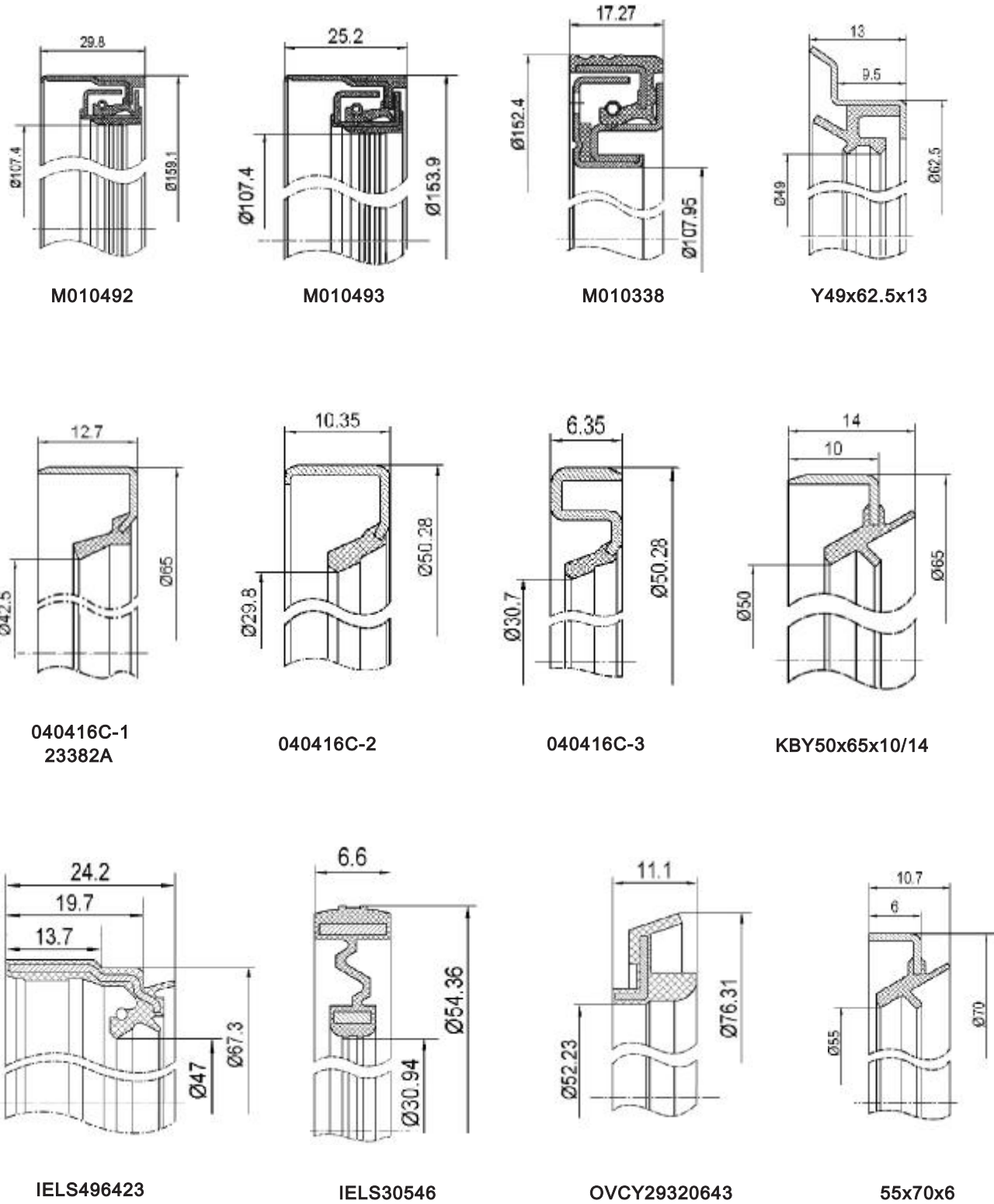


Part No.:M010337  
Size: 117.55x152.4x25.4mm  
For bearing: HM218248/10  
Application: SAF

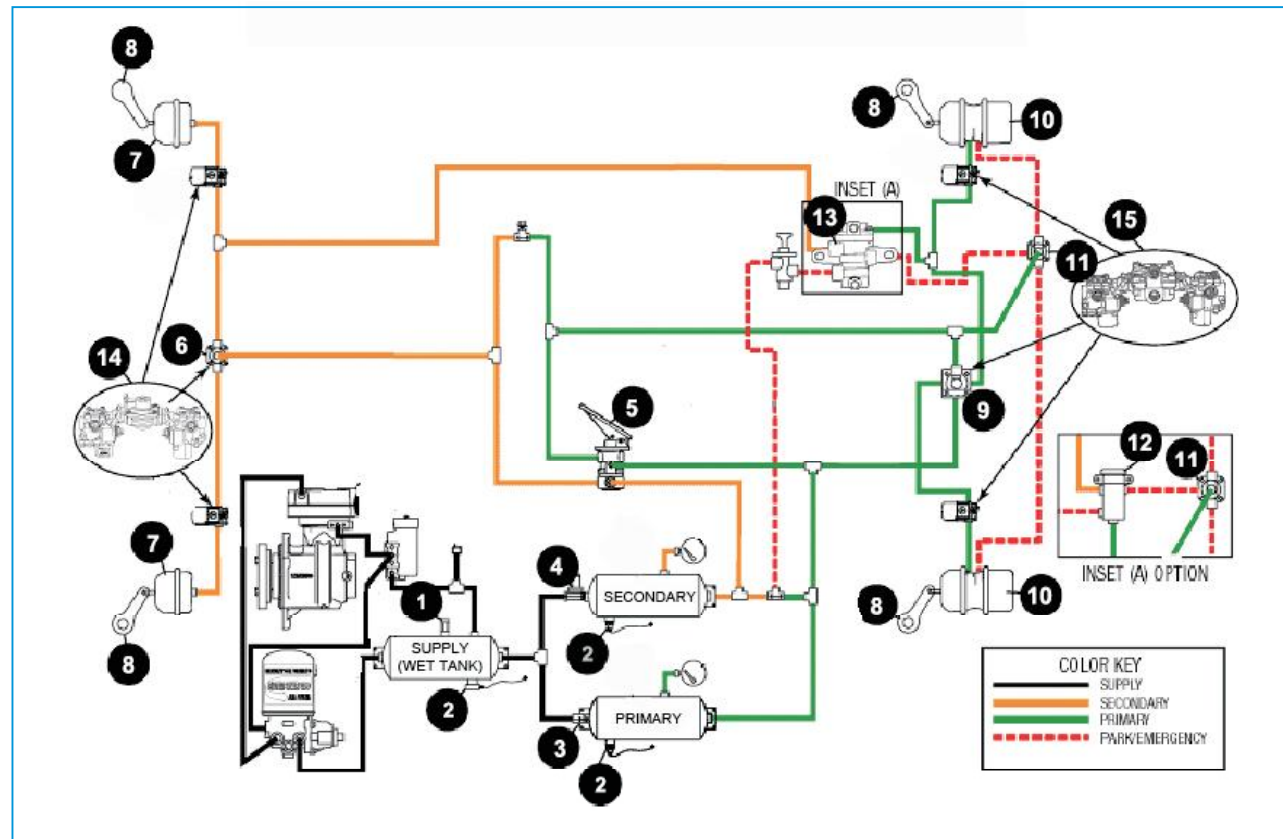


Part No.:M010346  
Size: 117.48x152.55x25.4mm  
For bearing: HM218248/10  
Application: York

▲ Oil Seal Specification:

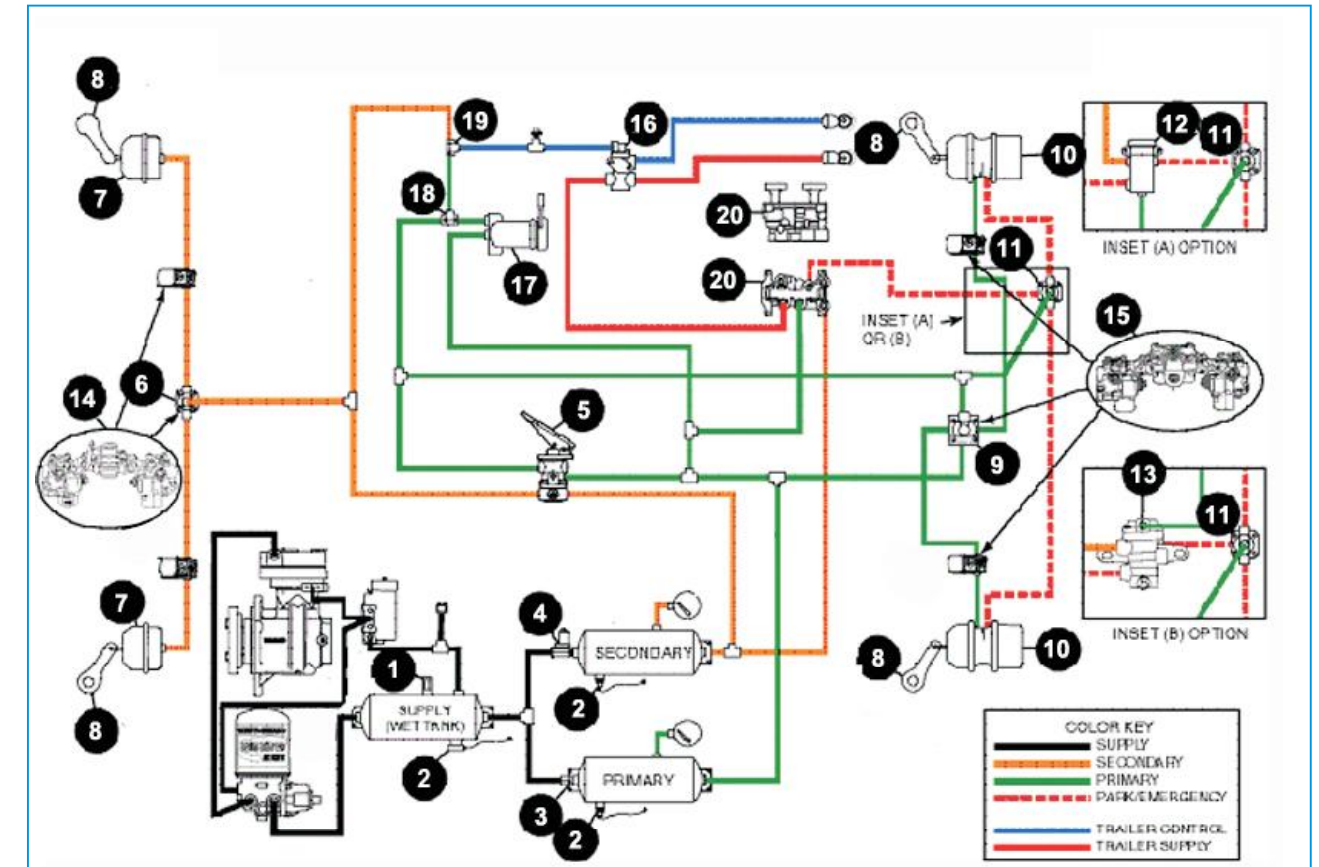


## Air Brake Control Valves for Trucks



- |                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| ① Safety Valve                      | ⑨ Relay Valve                                      |
| ② Drain Valves (Manual & Automatic) | ⑩ Spring Parking Brake Chamber                     |
| ③ Single Check Valve                | ⑪ Quick Release and Double Check Valve Combination |
| ④ Pressure Control Check Valve      | ⑫ Inversion Relay Valve                            |
| ⑤ Dual System Foot Brake Valve      | ⑬ Spring Brake Control Valve                       |
| ⑥ Quick Release Valve               | ⑭ Front Axle Valve Package                         |
| ⑦ Service Brake Chamber             | ⑮ Rear Axle Valve Package                          |
| ⑧ Slack Adjuster                    |                                                    |

## Air Brake Control Valves for Trailers



- |                                     |                                                          |
|-------------------------------------|----------------------------------------------------------|
| ① Safety Valve                      | ⑪ Quick Release and Double Check Valve Combination       |
| ② Drain Valves (Manual & Automatic) | ⑫ Inversion Relay Valve                                  |
| ③ Single Check Valve                | ⑬ Spring Brake Control Valve                             |
| ④ Pressure Control Check Valve      | ⑭ Front Axle Valve Package                               |
| ⑤ Dual System Foot Brake Valve      | ⑮ Rear Axle Valve Package                                |
| ⑥ Quick Release Valve               | ⑯ Two-Line Tractor Protection Valve (Non-Automatic Type) |
| ⑦ Service Brake Chamber             | ⑰ Hand Control Valve-Trailer Service Brakes              |
| ⑧ Slack Adjuster                    | ⑱ Double Check Valve                                     |
| ⑨ Relay Valve                       | ⑲ Double Check Valve                                     |
| ⑩ Spring Parking Brake Chamber      | ⑳ Manifold Dash Valve                                    |



Relay Valves



4730170300

**Relay Valve**  
Permissible medium: 1MPa  
operating temperature range:  
-40℃~80℃  
operating pressure: max.10bar  
M22×1.5(port1、2、41、42)  
RVI/MERCEDED/IVECO/VAN HOOL/  
MAN/SAUER/NEOPLAN/  
LEYLAND DAF/FAUN/IKARUS



9730010100

**Relay Valve**  
Max. operating pressure:1MPa  
operating temperature range:  
-40℃~80℃  
operating pressure: 800KPA  
M22 1.5(port1、2、4)  
MERCEDED/IVECO/NEOPLAN/  
STEYR/SAUER/LEYLAND DAF



279180 (A)  
279952 (B)  
280375 (C)

**R-6 Relay Valve**  
Max. operating pressure:1MPa  
Operating temperature range:  
-40℃~80℃  
operating pressure: 800KPA  
A: NPT 3/8" (supply) NPT 3/8" (delivery)  
B: NPT 3/8" (supply) NPT 3/8" (delivery)  
C: NPT 1/2" (supply) NPT 3/8" (delivery)  
VOLVO/MAGIRUS/RENAULT/SCANIA



201015021

**Relay Emergency Valve  
with predominance**  
  
2 supply poarts M22×1.5  
2 delivery ports M22×1.5  
4 delivery ports M16×1.5  
2 control ports M16×1.5



KY1001/1  
DX8003-RE6

**RE6 Relay Emergency Valve**  
  
3/4" NPTF Reservoir Port  
1/4" NPTF Ports for service  
Emergency and delivery



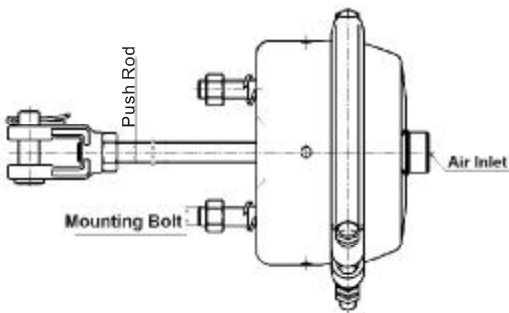
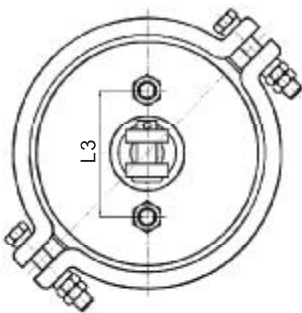
201020020

**Mini Relay Valve with Bracket**  
  
1 Reservoir Port M22×1.5  
2 Delivery Ports M16×1.5  
1 Control Port M16×1.5

Brake Chambers

Air Brake Chambers

| Main Performance          |                                      |
|---------------------------|--------------------------------------|
| Rating Working Pressure:  | 800Kpa                               |
| Maximum Working Pressure: | 1 Mpa                                |
| Ambient Temperature:      | - 40℃ ~ +80℃                         |
| Life Time:                | Service Chamber : ≥ 1,000,000 Cycles |
| Leading Standard:         | SAE J1469-95                         |

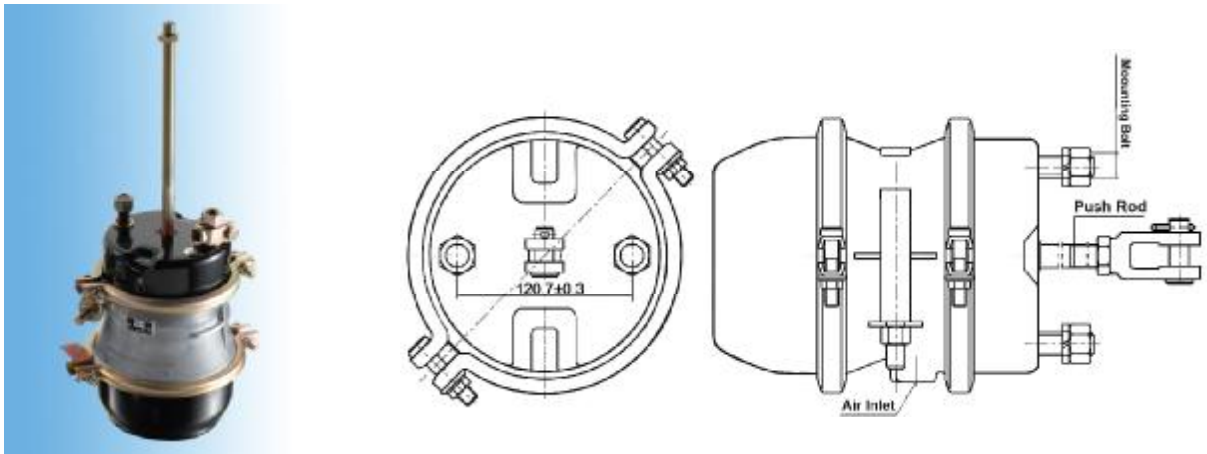


| Part No. | Stroke (mm) | L3    | Push Rod Thread | Air Inlet Thread | Mounting Bolt Thread | Coating              |
|----------|-------------|-------|-----------------|------------------|----------------------|----------------------|
| T9       | 44.5        | 76.2  | 1/2" -20UNF     | 1/4" -18NPTF     | 7/16" -14NUC         | Black Powder Coating |
| T12      | 44.5        | 76.2  | 1/2" -20UNF     | 3/8" -NPTF       | 7/16" -14NUC         | Black Powder Coating |
| T16      | 57          | 76.2  | 1/2" -20UNF     | 3/8" -NPTF       | 7/16" -14NUC         | Black Powder Coating |
| T16EB    | 57          | 76.2  | 5/8" -18UNF     | 3/8" -18NPTF     | 5/8" -11UNC          | Black Powder Coating |
| T20      | 57          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Black Powder Coating |
| T20EY    | 57          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Zinc-plated          |
| T20MB    | 57          | 120.7 | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |
| T20MY    | 57          | 120.7 | M16X1.5         | M16X1.5          | M16X1.5              | Zinc-plated          |
| T24      | 64          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Black Powder Coating |
| T24EY    | 64          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Zinc-plated          |
| T24MB    | 64          | 120.7 | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |
| T24L     | 75          | 120.7 | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |
| T24LS    | 80          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | M16X1.5              | Black Powder Coating |
| T24LSEY  | 80          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | M16X1.5              | Zinc-plated          |
| T30      | 64          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Black Powder Coating |
| T30EY    | 64          | 120.7 | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Zinc-plated          |
| T30MB    | 64          | 120.7 | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |



Spring Brake Chambers

| Main Performance          |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Rating Working Pressure:  | 800Kpa                                                                     |
| Maximum Working Pressure: | 1 Mpa                                                                      |
| Ambient Temperature:      | - 40℃ ~ +80℃                                                               |
| Life Time:                | Service Chamber : ≥ 1,000,000 Cycles<br>Parking Chamber : ≥ 200,000 Cycles |
| Leading Standard:         | SAE J1469 -95                                                              |



20/24 Series

| Part No. | Stroke (mm) | Push Rod Thread | Air Inlet Thread | Mounting Bolt Thread | Coating              |
|----------|-------------|-----------------|------------------|----------------------|----------------------|
| T20/24   | 64          | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |

24/24 Series

| Part No.  | Stroke (mm) | Push Rod Thread | Air Inlet Thread | Mounting Bolt Thread | Coating              |
|-----------|-------------|-----------------|------------------|----------------------|----------------------|
| T24/24    | 64          | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Black Powder Coating |
| T24/24EY  | 64          | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Zinc-plated          |
| T24/24EY4 | 64          | 5/8" -18UNF2A   | 3/8" -18NPTF     | M16X1.5              | Zinc-plated          |
| T24/24EB  | 64          | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |

30/30 Series

| Part No.  | Stroke (mm) | Push Rod Thread | Air Inlet Thread | Mounting Bolt Thread | Coating              |
|-----------|-------------|-----------------|------------------|----------------------|----------------------|
| T30/30    | 64          | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Black Powder Coating |
| T30/30YB  | 64          | M16X1.5         | 3/8" -18NPTF     | M16X1.5              | Zinc-plated          |
| T30/30EY  | 64          | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Zinc-plated          |
| T30/30MB  | 64          | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |
| T30/30MB1 | 64          | M16X1.5         | 3/8" -18NPTF     | M16X1.5              | Black Powder Coating |

Spring Brake Chambers

24/30 Series

| Part No.  | Stroke (mm) | Push Rod Thread | Air Inlet Thread | Mounting Bolt Thread | Coating              |
|-----------|-------------|-----------------|------------------|----------------------|----------------------|
| T24/30    | 64          | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -11UNC2A        | Black Powder Coating |
| T24/30MB  | 64          | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |
| T24/30EY  | 64          | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -18UNF2A        | Zinc-plated          |
| T24/30LEB | 76.2        | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -18UNF2A        | Black Powder Coating |
| T24/30LMB | 76.2        | M16X1.5         | M16X1.5          | M16X1.5              | Black Powder Coating |
| T24/30LS  | 68          | 5/8" -18UNF2A   | 3/8" -18NPTF     | 5/8" -18UNF2A        | Black Powder Coating |

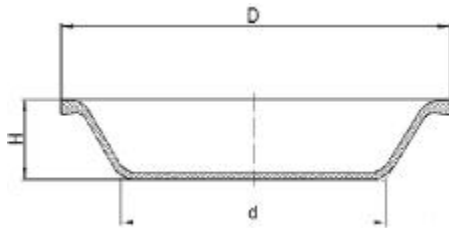
Note: sealed, safety lockmodel and wedge model spring brake chambers are available.

Assembly Parts



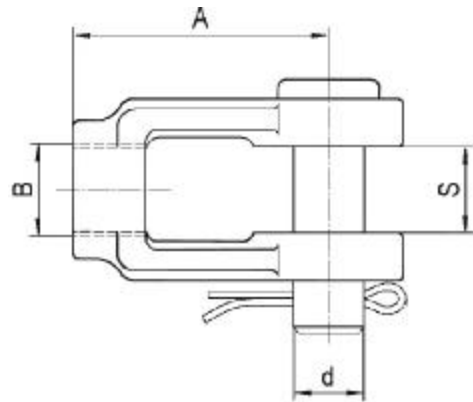
- Aluminum Chamber
- Diaphragm
- Parking Chamber
- Parking Spring
- Return Spring
- Service Chamber
- YokeAssembly

Diaphragms



| Part No. | D (mm) | d (mm) | H (mm) | Mass (Kg) |
|----------|--------|--------|--------|-----------|
| T-20     | 168    | 116    | 35     | 0.14      |
| T-24     | 178    | 123.5  | 40.7   | 0.155     |
| T-30     | 199    | 148.8  | 42     | 0.17      |
| T-16L    | 158    | 111.6  | 45.5   | 0.136     |
| T-20L    | 169    | 106    | 47     | 0.18      |
| T-24L    | 178    | 125    | 49     | 0.18      |
| T-30L    | 199    | 149    | 49     | 0.19      |

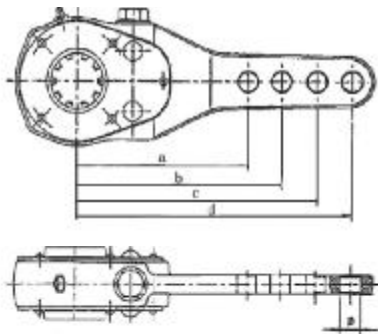
▲ Yoke Assemblies



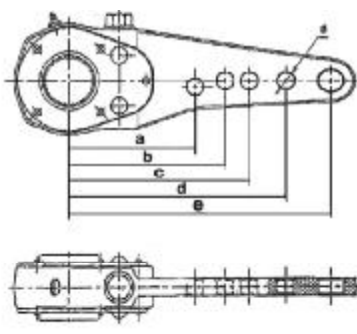
| Part No. | A     | B           | D    | S     | Mass (Kg) |
|----------|-------|-------------|------|-------|-----------|
| Y38050   | 1.88" | 5/8" -18UNF | 1/2" | 9/16" | 0.17      |
| Y38051   | 1.88" | 5/8" -18UNF | 14mm | 9/16" | 0.17      |
| Y38052   | 1.88" | M16 x1.5    | 1/2" | 9/16" | 0.17      |
| Y38053   | 1.88" | M16 x1.5    | 14mm | 14mm  | 0.17      |
| Y38057   | 2"    | 5/8" -18UNF | 1/2" | 9/16" | 0.2       |
| Y38058   | 2"    | 5/8" -18UNF | 5/8" | 9/16" | 0.2       |

Manual Slack Adjusters

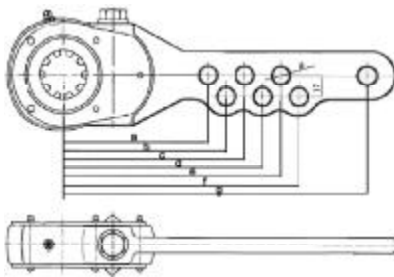
|                                      |                  |
|--------------------------------------|------------------|
| Torque:                              | 26,000 in/lbs    |
| Regulating Torque                    | ≤ 8.5N-m         |
| Working Temperature:                 | - 40℃ - +80℃     |
| Life Time:                           | ≥ 200,000 cycles |
| Production According to SAE J1461-88 |                  |



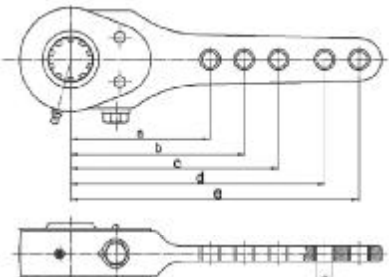
Type 1



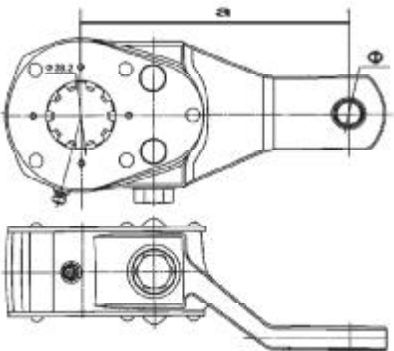
Type 2



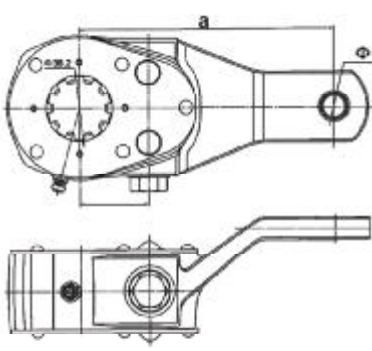
Type 3



Type 4



Type 5



Type 6



■ For European Vehicles



| Part No. | Spline |       | Hole centres (mm) |          |          |          |          | Drawing type |
|----------|--------|-------|-------------------|----------|----------|----------|----------|--------------|
|          | Dia.   | Teeth | a-Φ               | b-Φ      | c-Φ      | d-Φ      | e-Φ      |              |
| 18-048   | 1 1/2" | 10    | 127/12.7          | 152/12.7 | 178/12.7 | 203/12.7 | -        | 1            |
| 18-049   | 1 1/2" | 10    | 127/12.7          | 152/12.7 | 178/12.7 | 203/12.7 | 254/12.7 | 4            |
| 18-057   | 1 1/2" | 10    | 127/14            | 152/14   | 178/14   | 203/14   | -        | 1            |
| 18-116   | 1 1/2" | 37    | 127/12.7          | 152/12.7 | 178/12.7 | 203/127  | -        | 1            |
| 18-117   | 1 1/2" | 28    | 127/12.7          | 152/12.7 | 178/12.7 | 203/12.7 | -        | 1            |

| Part No. | Spline |       | Hole centres (mm) |            |            |          |          |          |          | Drawing type |
|----------|--------|-------|-------------------|------------|------------|----------|----------|----------|----------|--------------|
|          | Dia.   | Teeth | a-Φ               | b-Φ        | c-Φ        | d-Φ      | e-Φ      | f-Φ      | g-Φ      |              |
| FT65452  | 1-1/2" | 10    | 127/14.0          | 152/14.0   | 170/14.0   | 203/14.0 |          | -        | -        | 1            |
| 278323   | 1-1/2" | 10    | 127/12.7          | 152.4/12.7 | 177.8/12.7 | -        | -        | -        | -        | 1            |
| 278312   | 1-1/2" | 10    | 127/12.7          | 152.4/12.7 | -          | -        | -        | -        | -        | 1            |
| FT65680  | 1-1/2" | 10    | 127/14.0          | 152/14.0   | 178/140    | 203/14.0 | -        | -        | -        | 1            |
| FT67080  | 1-1/2" | 10    | 127/14.0          | 152/14.0   | 178/14.0   | 203/14.0 | 230/18.0 | -        | -        | 4            |
| FT65138  | 1-1/2" | 10    | 120/14.0          | 150/14.0   | 180/14.0   | 220/14.0 | 250/14.0 | -        | -        | 4            |
| FT65453  | 1-1/2" | 10    | 105/14.0          | 130/14.0   | 150/14.0   | 180/14.0 | 215/16.0 | -        | -        | 2            |
| FT62250  | 1-1/2" | 10    | 152.4/12.7        | -          | -          | -        | -        | -        | -        | 5            |
| FT62251  | 1-1/2" | 10    | 152.4/12.7        | -          | -          | -        | -        | -        | -        | 6            |
| 788213   | 1-1/2" | 10    | 120/14.0          | 135/14.0   | 150/14.0   | 165/14.0 | 180/14.0 | 195/14.0 | 250/18.0 | 3            |
| 6110270A | 1-1/2" | 10    | 152.4/12.7        | 177.8/12.7 | -          | -        | -        | -        | -        | 1            |
| 101214   | 1-1/2" | 28    | 139.7/5/8"        | 165.1/5/8" | -          | -        | -        | -        | -        | 1            |
| 101215   | 1-1/2" | 28    | 127/5/8"          | 152.4/5/8" | -          | -        | -        | -        | -        | 1            |
| FT65046  | 1-5/8" | 37    | 105/14.0          | 130/14.0   | 150/14.0   | 180/14.0 | 215/18.0 | -        | -        | 2            |

■ For American Vehicles



| Part No. | Spline |       | Hole centres (inch) |            |        |   | Pin dia. (inch) |
|----------|--------|-------|---------------------|------------|--------|---|-----------------|
|          | Dia.   | Teeth | A                   | B          | C      | D |                 |
| 278323   | 1 1/2" | 10    | 5"                  | 6"         | 7"     | - | 1/2"            |
| 278321   | 1 1/2" | 10    | -                   | 5-1/2"     | 6-1/2" | - | 1/2"            |
| 278312   | 1 1/2" | 10    | -                   | 5"         | 6"     | - | 1/2"            |
| 278326   | 1 1/2" | 10    | -                   | 5-1/2"     | 6-1/2" | - | 1/2"            |
| 277959   | 1 1/2" | 10    | -                   | 5-1/2"     | 6-1/2" | - | 5/8"            |
| 278335   | 1 1/2" | 10    | -                   | 6"         | 7"     | - | 1/2"            |
| 279316   | 1 1/2" | 10    | -                   | 4-1/2"     | 5-1/2" | - | 1/2"            |
| 286168   | 1 1/2" | 10    | -                   | 6"         | 7"     | - | 1/2"            |
| 286965   | 1-1/2" | 28    | 127/12.7            | 152.4/12.7 | -      | - | -               |
| 288753   | 1-1/2" | 28    | 139.7/12.7          | 165.1/12.7 | -      | - | -               |
| 283411   | 1-5/8" | 37    | 152.4/12.7          |            | -      | - | -               |

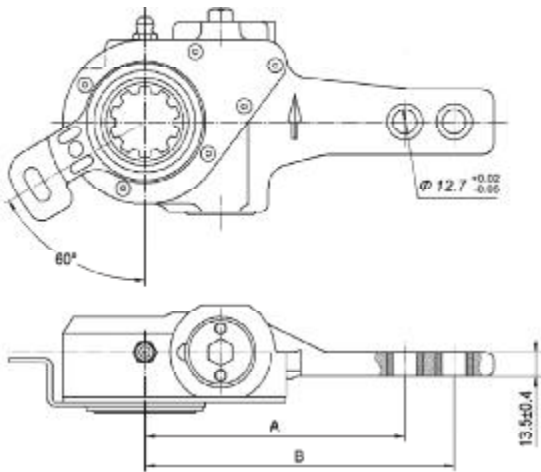
| Part No. | Spline |       | Hole centres (inch) |    |    |    | Pin dia. (inch) |
|----------|--------|-------|---------------------|----|----|----|-----------------|
|          | Dia.   | Teeth | A                   | B  | C  | D  |                 |
| 2192AF   | 1 1/2" | 19    | -                   | 5" | 6" | -  | 1/2"            |
| 2193AF   | 1 1/2" | 19    | 5"                  | 6" | 7" | -  | 1/2"            |
| 2194AF   | 1 1/2" | 19    | 5"                  | 6" | 7" | 8" | 1/2"            |

| Part No. | Spline |       | Hole centres (mm) |     |     |     | Pin dia. (mm) |
|----------|--------|-------|-------------------|-----|-----|-----|---------------|
|          | Dia.   | Teeth | A                 | B   | C   | D   |               |
| S2025    | 1 1/2" | 8     | 127               | 152 | 178 | -   | 12.7          |
| S2051    | 1 1/2" | 8     | 127               | 152 | 178 | 203 | 12.7          |
| S2010    | 1 1/2" | 10    | 127               | 152 | 178 | -   | 12.7          |
| S2020    | 1 1/2" | 10    | 140               | 165 | -   | -   | 12.7          |
| S2021    | 1 1/2" | 10    | 127               | 152 | -   | -   | 12.7          |
| S2011    | 1 1/2" | 28    | 127               | 152 | -   | -   | 12.7          |
| S2019    | 1 1/2" | 28    | 140               | 165 | -   | -   | 12.7          |
| S2022    | 1 1/2" | 28    | 127               | 152 | 178 | -   | 12.7          |
| S2012    | 1 5/8" | 37    | 152.4             | -   | -   | -   | 12.7          |
| S2024    | 1 5/8" | 37    | 127               | 152 | 178 | -   | 12.7          |

| Part No. | Spline      | Hole centres (mm) |     |     |   | Pin dia. (mm) |
|----------|-------------|-------------------|-----|-----|---|---------------|
|          | Square bore | A                 | B   | C   | D |               |
| 73386C   | 27 x 27 mm  | 127               | 152 | 178 | - | 12.7          |



Automatic Slack Adjusters



| Application | Part No. | Spline Teeth | Hole | Other side |
|-------------|----------|--------------|------|------------|
| BPW         | 72877C   | 10           | 3    | 72878C     |
| BPW         | 72881C   | 10           | 2    | 72882C     |
| DAF         | 10868C   | 10           | 1    | 10869C     |
| DAF         | 70824C   | 10           | 1    | 70825C     |
| DAF         | 72150C   | 10           | 1    | 72151C     |
| DAF         | 72523C   | 10           | 1    | 72524C     |
| DAF         | 72525C   | 10           | 1    | 72526C     |
| DAF         | 72532C   | 10           | 1    | 72533C     |
| DAF         | 72536C   | 10           | 1    | 72537C     |
| DAF         | 72538C   | 10           | 1    | 72539C     |
| DAF         | 72542C   | 10           | 1    | 72543C     |
| DAF         | 72544C   | 10           | 1    | 72545C     |
| DAF         | 72586C   | 10           | 1    | 72587C     |
| DAF         | 72608C   | 10           | 1    | 72609C     |
| DAF         | 72679C   | 10           | 1    | 72680C     |
| DAF         | 72695C   | 10           | 1    | 72696C     |
| DAF         | 72704C   | 10           | 1    | 72705C     |
| DAF         | 72794C   | 10           | 1    | 72795C     |
| DAF         | 72815C   | 10           | 1    | 72816C     |
| DAF         | 72833C   | 10           | 1    | 72834C     |
| DAF         | 72886C   | 10           | 1    | 72887C     |
| DAF         | 79024C   | 10           | 1    | 79025C     |
| DAF         | 79167C   | 10           | 1    | 79168C     |
| DAF         | 79179C   | 10           | 1    | 79180C     |

| Application | Part No. | Spline Teeth | Hole | Other side |
|-------------|----------|--------------|------|------------|
| DAF         | 79577C   | 10           | 1    | 79578C     |
| Fruehauf    | 12141C   | 10           | 1    | 12142C     |
| Hino        | 12254C   | 19           | 1    | 12255C     |
| Kässbohrer  | 70716C   | 19           | 1    | 70717C     |
| Kässbohrer  | 70718C   | 19           | 1    | 70719C     |
| Kässbohrer  | 72014C   | 19           | 1    | 72015C     |
| Kässbohrer  | 72370C   | 19           | 1    | 72371C     |
| Kässbohrer  | 72372C   | 28           | 1    | 72373C     |
| Kässbohrer  | 72374C   | 10           | 1    | 72375C     |
| Kässbohrer  | 72591C   | 19           | 1    | 72592C     |
| Kässbohrer  | 79040C   | 19           | 1    | 79041C     |
| SAE         | 72869C   | 10           | 2    | 72870C     |
| SAE         | 79138C   | 10           | 2    | 79139C     |
| SAE         | 79140C   | 10           | 2    | 79141C     |
| SAE         | 79142C   | 10           | 2    | 79143C     |
| SAE         | 79146C   | 10           | 2    | 79147C     |
| SAF         | 70802C   | 10           | 3    | 70803C     |
| SAF         | 72007C   | 10           | 3    | 72008C     |
| SAF         | 72238C   | 10           | 3    | 72239C     |
| SAF         | 79038C   | 10           | 3    | 79039C     |
| SAF         | 79043C   | 10           | 2    | 79044C     |
| SAF         | 79052C   | 10           | 2    | 79053C     |
| SAF         | 79086C   | 10           | 1    | 79087C     |
| Scania      | 72655C   | 10           | 1    | 72656C     |

Automatic Slack Adjusters

| Application | Part No. | Spline Teeth | Hole | Other side |
|-------------|----------|--------------|------|------------|
| Scania      | 72657C   | 10           | 1    | 72658C     |
| Scania      | 72660C   | 10           | 1    | 72661C     |
| Scania      | 72663C   | 10           | 1    | 72664C     |
| Scania      | 72665C   | 10           | 1    | 72666C     |
| Scania      | 72727C   | 10           | 1    | 72728C     |
| Scania      | 72729C   | 10           | 1    | 72730C     |
| Scania      | 72744C   | 10           | 1    | 72745C     |
| Scania      | 72746C   | 10           | 1    | 72747C     |
| Scania      | 72825C   | 10           | 1    | 72826C     |
| Scania      | 72892C   | 10           | 1    | 72893C     |
| Scania      | 72949C   | 10           | 1    | 72950C     |
| Scania      | 72951C   | 10           | 1    | 72952C     |
| Scania      | 72954C   | 10           | 1    | 72955C     |
| Scania      | 72956C   | 10           | 1    | 72957C     |
| Scania      | 72958C   | 10           | 1    | 72959C     |
| Scania      | 79105C   | 10           | 1    | 79106C     |
| Scania      | 79347C   | 10           | 1    | 79348C     |
| Scania      | 79368C   | 10           | 1    | 79369C     |
| Scania      | 79442C   | 10           | 1    | 79443C     |
| Scania      | 79453C   | 10           | 1    | 79625C     |
| Scania      | 79550C   | 10           | 1    | 79551C     |
| Scania      | 79625C   | 10           | 1    | 79453C     |
| Scania      | 79786C   | 10           | 1    | 79787C     |
| Volvo       | 70641C   | 10           | 3    | 70642C     |

| Application | Part No. | Spline Teeth | Hole | Other side |
|-------------|----------|--------------|------|------------|
| Volvo       | 70977C   | 10           | 1    | 70978C     |
| Volvo       | 72668C   | 10           | 1    | 72669C     |
| Volvo       | 72670C   | 10           | 1    | 72671C     |
| Volvo       | 72672C   | 10           | 1    | 72673C     |
| Volvo       | 72674C   | 10           | 1    | 72675C     |
| Volvo       | 72713C   | 10           | 1    | 72714C     |
| Volvo       | 72715C   | 10           | 1    | 72716C     |
| Volvo       | 72717C   | 10           | 1    | 72718C     |
| Volvo       | 72719C   | 10           | 1    | 72720C     |
| Volvo       | 72721C   | 10           | 1    | 72722C     |
| Volvo       | 72723C   | 10           | 1    | 72724C     |
| Volvo       | 72782C   | 10           | 1    | 72783C     |
| Volvo       | 72784C   | 10           | 1    | 72785C     |
| Volvo       | 72901C   | 10           | 1    | 72902C     |
| Volvo       | 72904C   | 10           | 1    | 72914C     |
| Volvo       | 72906C   | 10           | 1    | 72907C     |
| Volvo       | 72914C   | 10           | 1    | 72904C     |
| Volvo       | 72915C   | 10           | 1    | 72916C     |
| Volvo       | 79359C   | 10           | 1    | 79360C     |
| Volvo       | 79641C   | 10           | 1    | 79642C     |
| Volvo       | 79677C   | 10           | 1    | 79678C     |
| Volvo       | 79713C   | 10           | 1    | 79714C     |
| Volvo       | 79799C   | 10           | 1    | 79800C     |
| York        | 79065C   | 10           | 1    | 79066C     |

Automatic Slack Adjuster Repair Kit



Part No. : 76046

Repair kit for Haldex automatic slack adjusters



Airline Coils



Production Standard: GB16897-1997

Red — Emergency Line

Yellow — Service Line

Blue — Auxiliary Line

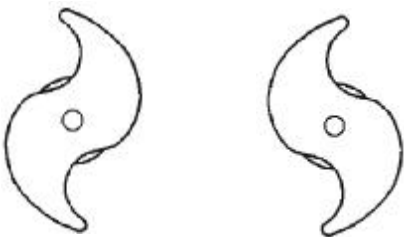
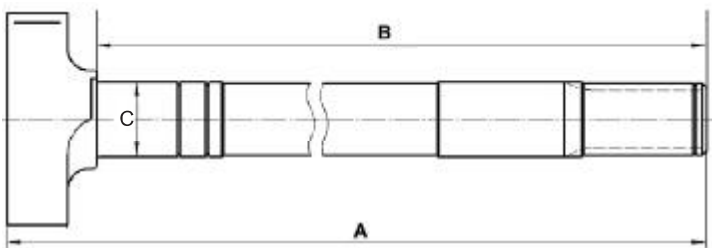
| Part No. | Coils | Mandrel Dia. (mm) | Working Length (m) | Coiled Hose Connection              |
|----------|-------|-------------------|--------------------|-------------------------------------|
| QS-15    | 15    | 110               | 2.50               | Tube-linking nut<br>M18x1.5         |
| QS-18    | 18    | 75                | 2.50               |                                     |
|          |       | 110               | 3.00               |                                     |
| QS-20    | 20    | 75                | 2.75               |                                     |
|          |       | 110               | 3.25               |                                     |
| QS-22    | 22    | 75                | 3.00               | Female fitting<br>ZG1/2 and M22x1.5 |
|          |       | 110               | 3.50               |                                     |
| QS-24    | 24    | 75                | 3.25               |                                     |
|          |       | 110               | 3.75               |                                     |
| QS-26    | 26    | 75                | 3.50               |                                     |
|          |       | 110               | 4.00               |                                     |
| QS-28    | 28    | 110               | 3.75               |                                     |
| QS-30    | 30    | 110               | 4.00               |                                     |

▲ Threaded Screw



Brake Camshafts

|                    |                               |
|--------------------|-------------------------------|
| Material:          | 45# Steel or 45 Cr Steel      |
| Heating Treatment: | Induction Heating Case Harden |
| Hardness:          | HRC52-63                      |
| Case Depth:        | 1.5mm~3mm                     |



Left Handed Cam      Right Handed Cam

| Application                | OEM No.        | Handed | Drum Diameter  | Spline | A   | B   | C  |
|----------------------------|----------------|--------|----------------|--------|-----|-----|----|
| BPW "H&K" series camshafts | 05.097.05.22.1 | R      | 420mm & 360 mm | 10     | 628 | 594 | 42 |
|                            | 05.097.05.21.1 | L      | 420mm & 360 mm | 10     | 628 | 594 | 42 |
|                            | 05.097.05.24.1 | R      | 420mm & 360 mm | 10     | 641 | 607 | 42 |
|                            | 05.097.05.23.1 | L      | 420mm & 360 mm | 10     | 641 | 607 | 42 |
|                            | 05.097.05.26.1 | R      | 420mm & 360 mm | 10     | 666 | 632 | 42 |
|                            | 05.097.05.25.1 | L      | 420mm & 360 mm | 10     | 666 | 632 | 42 |
|                            | 05.097.05.28.1 | R      | 420mm & 360 mm | 10     | 696 | 662 | 42 |
|                            | 05.097.05.27.1 | L      | 420mm & 360 mm | 10     | 696 | 662 | 42 |
|                            | 05.097.05.18.1 | R      | 420mm & 360 mm | 10     | 588 | 554 | 42 |
|                            | 05.097.05.17.1 | L      | 420mm & 360 mm | 10     | 588 | 554 | 42 |
|                            | 05.097.05.30.1 | R      | 420mm & 360 mm | 10     | 734 | 700 | 42 |
|                            | 05.097.05.29.1 | L      | 420mm & 360 mm | 10     | 734 | 700 | 42 |
| BPW "N" series camshafts   | 05.097.60.42.2 | R      | 300mm          | 10     | 723 | 659 | 42 |
|                            | 05.097.60.41.2 | L      | 300mm          | 10     | 723 | 659 | 42 |
| FRUEHAUF camshafts         | CF100128       | R      | 420mm          | 37     | 464 | 420 | 42 |
|                            | CF100127       | L      | 420mm          | 37     | 464 | 420 | 42 |
|                            | CF100130       | R      | 420mm          | 37     | 588 | 542 | 42 |
|                            | CF100129       | L      | 420mm          | 37     | 588 | 542 | 42 |



Brake Camshafts

| Application                                                  | OEM No.    | Handed | Drum Diameter  | Spline | A   | B     | C  |
|--------------------------------------------------------------|------------|--------|----------------|--------|-----|-------|----|
| Hendrickson/York camshafts                                   | 504723/01R | R      | 420mm & 394 mm | 10     | 570 | 525.5 | 38 |
|                                                              | 504723/01L | L      | 420mm & 394 mm | 10     | 570 | 525.5 | 38 |
|                                                              | 504723/02R | R      | 420mm & 394 mm | 10     | 647 | 602   | 38 |
|                                                              | 504723/02L | L      | 420mm & 394 mm | 10     | 647 | 602   | 38 |
|                                                              | 504723/03R | R      | 420mm & 394 mm | 10     | 697 | 652   | 38 |
|                                                              | 504723/03L | L      | 420mm & 394 mm | 10     | 697 | 652   | 38 |
|                                                              | 504723/17R | R      | 420mm & 394 mm | 10     | 672 | 627   | 38 |
|                                                              | 504723/17L | L      | 420mm & 394 mm | 10     | 672 | 627   | 38 |
|                                                              | 504723/18R | R      | 420mm & 394 mm | 10     | 686 | 641   | 38 |
|                                                              | 504723/18L | L      | 420mm & 394 mm | 10     | 686 | 641   | 38 |
|                                                              | 504723/10R | R      | 420mm & 394 mm | 10     | 723 | 678   | 38 |
|                                                              | 504723/10L | L      | 420mm & 394 mm | 10     | 723 | 678   | 38 |
|                                                              | 504742/01R | R      | 335mm & 311mm  | 10     | 580 | 525   | 38 |
|                                                              | 504742/01L | L      | 335mm & 311mm  | 10     | 580 | 525   | 38 |
|                                                              | 504742/02R | R      | 335mm & 311mm  | 10     | 656 | 602   | 38 |
|                                                              | 504742/02L | L      | 335mm & 311mm  | 10     | 656 | 602   | 38 |
|                                                              | 504742/19R | R      | 335mm & 311mm  | 10     | 670 | 616   | 38 |
|                                                              | 504742/19L | L      | 335mm & 311mm  | 10     | 670 | 616   | 38 |
|                                                              | 504742/03R | R      | 335mm & 311mm  | 10     | 706 | 652   | 38 |
|                                                              | 504742/03L | L      | 335mm & 311mm  | 10     | 706 | 652   | 38 |
| LOHR-COLAERT camshafts                                       | Y00000083  | R      | 305mm          | 10     | 765 | 715   | 32 |
|                                                              | Y00000084  | L      | 305mm          | 10     | 765 | 715   | 32 |
|                                                              | 300203111  | R      | 305mm          | 10     | 781 | 731   | 32 |
|                                                              | 300203112  | L      | 305mm          | 10     | 781 | 731   | 32 |
|                                                              | 300202632  | R      | 305mm          | 10     | 845 | 795   | 32 |
|                                                              | 300202633  | L      | 305mm          | 10     | 845 | 795   | 32 |
| LOHR-S.A.E.camshafts                                         | Y00000817  | R      | 305mm & 355mm  | 10     | 704 | 657   | 38 |
|                                                              | Y00000463  | L      | 305mm & 355mm  | 10     | 704 | 657   | 38 |
| ROR LM camshafts - 27mm wide Camshaft Head                   | 21224793   | R      | 420mm          | 10     | 570 | 525.5 | 42 |
|                                                              | 21224794   | L      | 420mm          | 10     | 570 | 525.5 | 42 |
|                                                              | 21224795   | R      | 420mm          | 10     | 638 | 587.5 | 42 |
|                                                              | 21224796   | L      | 420mm          | 10     | 638 | 587.5 | 42 |
|                                                              | 21214845   | R      | 420mm          | 10     | 660 | 615   | 42 |
|                                                              | 21214846   | L      | 420mm          | 10     | 660 | 615   | 42 |
| ROR TA camshafts - 34mm wide Camshaft Head - before JAN.2001 | 21221070   | R      | 420mm          | 10     | 570 | 525.5 | 42 |
|                                                              | 21221071   | L      | 420mm          | 10     | 570 | 525.5 | 42 |
|                                                              | 21221194   | R      | 420mm          | 10     | 632 | 587.5 | 42 |
|                                                              | 21221195   | L      | 420mm          | 10     | 632 | 587.5 | 42 |
|                                                              | 21222187   | R      | 420mm          | 10     | 655 | 610   | 42 |
|                                                              | 21222188   | L      | 420mm          | 10     | 655 | 610   | 42 |
|                                                              | 21222191   | R      | 420mm          | 10     | 681 | 637   | 42 |
|                                                              | 21222192   | L      | 420mm          | 10     | 681 | 637   | 42 |

Brake Camshafts

| Application                                                                              | OEM No.       | Handed | Drum Diameter | Spline | A   | B     | C  |
|------------------------------------------------------------------------------------------|---------------|--------|---------------|--------|-----|-------|----|
| ROR TM camshafts with cast anchor bracket-Standard Diameter 34mm wide Camshaft Head      | 21205922      | R      | 420mm         | 10     | 464 | 435   | 38 |
|                                                                                          | 21205923      | L      | 420mm         | 10     | 464 | 435   | 38 |
|                                                                                          | 21205406      | R      | 420mm         | 10     | 570 | 525.5 | 38 |
|                                                                                          | 21205407      | L      | 420mm         | 10     | 570 | 525.5 | 38 |
|                                                                                          | 21205716      | R      | 311mm         | 10     | 570 | 525.5 | 38 |
|                                                                                          | 21205717      | L      | 311mm         | 10     | 570 | 525.5 | 38 |
| ROR TM camshafts with cast anchor bracket-Stepped Diameter 34mm wide Camshaft Head       | 21202754      | R      | 420mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21202755      | L      | 420mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21219279      | R      | 420mm         | 10     | 634 | 587.5 | 42 |
|                                                                                          | 21219280      | L      | 420mm         | 10     | 634 | 587.5 | 42 |
|                                                                                          | 21219159      | R      | 420mm         | 10     | 655 | 610   | 42 |
|                                                                                          | 21219160      | L      | 420mm         | 10     | 655 | 610   | 42 |
|                                                                                          | 21219277      | R      | 420mm         | 10     | 673 | 627   | 42 |
|                                                                                          | 21219278      | L      | 420mm         | 10     | 673 | 627   | 42 |
|                                                                                          | 21220815      | R      | 350mm         | 10     | 620 | 575.5 | 42 |
|                                                                                          | 21220816      | L      | 350mm         | 10     | 620 | 575.5 | 42 |
|                                                                                          | 21219311      | R      | 350mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21219312      | L      | 350mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21219321      | R      | 350mm         | 10     | 655 | 610   | 42 |
|                                                                                          | 21219322      | L      | 350mm         | 10     | 655 | 610   | 42 |
|                                                                                          | 21220815      | R      | 311mm         | 10     | 620 | 575.5 | 42 |
|                                                                                          | 21220816      | L      | 311mm         | 10     | 620 | 575.5 | 42 |
|                                                                                          | 21219335      | R      | 311mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21219336      | L      | 311mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21219337      | R      | 311mm         | 10     | 655 | 610   | 42 |
|                                                                                          | 21219338      | L      | 311mm         | 10     | 655 | 610   | 42 |
| ROR TM camshafts with fabricated anchor bracket-Stepped Diameter 34mm wide Camshaft Head | 21221070      | R      | 420mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21221071      | L      | 420mm         | 10     | 570 | 525.5 | 42 |
|                                                                                          | 21221194      | R      | 420mm         | 10     | 632 | 587.5 | 42 |
|                                                                                          | 21221195      | L      | 420mm         | 10     | 632 | 587.5 | 42 |
|                                                                                          | 21222187      | R      | 420mm         | 10     | 655 | 610   | 42 |
|                                                                                          | 21222188      | L      | 420mm         | 10     | 655 | 610   | 42 |
| ROR TE camshafts - 34mm wide Camshaft Head                                               | 21222191      | R      | 420mm         | 10     | 681 | 637   | 42 |
|                                                                                          | 21222192      | L      | 420mm         | 10     | 681 | 637   | 42 |
| SAF "RS & RZ" series camshafts                                                           | 3.262.0262.01 | R      | 420mm         | 10     | 550 | 505   | 38 |
|                                                                                          | 3.262.0261.01 | L      | 420mm         | 10     | 550 | 505   | 38 |
|                                                                                          | 3.262.0272.01 | R      | 420mm         | 10     | 680 | 635   | 38 |
|                                                                                          | 3.262.0271.01 | L      | 420mm         | 10     | 680 | 635   | 38 |
|                                                                                          | 3.262.0284.01 | R      | 420mm         | 10     | 705 | 660   | 38 |
|                                                                                          | 3.262.0283.01 | L      | 420mm         | 10     | 705 | 660   | 38 |



Brake Camshafts

| Application                                            | OEM No.       | Handed | Drum Diameter | Spline | A   | B   | C  |
|--------------------------------------------------------|---------------|--------|---------------|--------|-----|-----|----|
| SAF "SK" series camshafts - with 56mm Bearing Journals | 3.262.1100.01 | R      | 420mm         | 10     | 563 | 508 | 56 |
|                                                        | 3.262.1101.01 | L      | 420mm         | 10     | 563 | 508 | 56 |
|                                                        | 3.262.1110.01 | R      | 420mm         | 10     | 635 | 580 | 56 |
|                                                        | 3.262.1111.01 | L      | 420mm         | 10     | 635 | 580 | 56 |
|                                                        | 3.262.1102.01 | R      | 420mm         | 10     | 719 | 665 | 56 |
|                                                        | 3.262.1103.01 | L      | 420mm         | 10     | 719 | 665 | 56 |
| SAF "WRZM" series camshafts - Low Loader Axles         | 3.262.0408.02 | R      | 300mm & 355mm | 10     | 630 | —   | 38 |
|                                                        | 3.262.0407.02 | L      | 300mm & 355mm | 10     | 630 | —   | 38 |
| SMB camshaft                                           | M023433       | R      | 420mm         | 10     | 635 | 587 | 38 |
|                                                        | M023425       | L      | 420mm         | 10     | 635 | 587 | 38 |
|                                                        | M044503       | R      | 311mm         | 10     | 635 | 587 | 38 |
|                                                        | M044481       | L      | 311mm         | 10     | 635 | 587 | 38 |
| TRAILOR camshafts                                      | 6502812J      | R      | 420mm         | 10     | 575 | 525 | 38 |
|                                                        | 6502813K      | L      | 420mm         | 10     | 575 | 525 | 38 |
|                                                        | 6503340Z      | R      | 420mm         | 10     | 634 | 589 | 38 |
|                                                        | 6503339G      | L      | 420mm         | 10     | 634 | 589 | 38 |

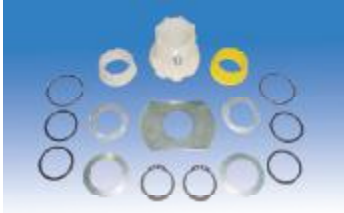
Camshaft Support Repair Kits

| Part No.                                                                                                      | Description                | Quantity | Application                                        |
|---------------------------------------------------------------------------------------------------------------|----------------------------|----------|----------------------------------------------------|
|  K1810                     | Housing Plate              | 2        | ROR                                                |
|                                                                                                               | Spherical Bearing          | 1        |                                                    |
|                                                                                                               | O'Ring                     | 2        |                                                    |
|                                                                                                               |                            |          |                                                    |
|  K1811                     | Housing Plate              | 1        | ROR TM/9000;<br>HENDRICKSON<br>2000 series         |
|                                                                                                               | Housing Plate with Oilhole | 1        |                                                    |
|                                                                                                               | O'Ring                     | 2        |                                                    |
|                                                                                                               | Nylon Spherical Bearing    | 1        |                                                    |
|                                                                                                               | O'Ring                     | 1        |                                                    |
|                                                                                                               | Grease Nipple              | 1        |                                                    |
|  K1840                    | Housing Plate              | 1        | ROR 9000,<br>ROR TM with pressed<br>anchor bracket |
|                                                                                                               | Housing Plate with Oilhole | 1        |                                                    |
|                                                                                                               | Steel Spherical Bearing    | 1        |                                                    |
|                                                                                                               | Circlip                    | 1        |                                                    |
|                                                                                                               | O'Ring                     | 2        |                                                    |
|                                                                                                               | Dust boot                  | 1        |                                                    |
|                                                                                                               | Grease Nipple Pressing     | 1        |                                                    |
|                                                                                                               | Grease Nipple              | 1        |                                                    |
|                                                                                                               |                            |          |                                                    |
|  K7287                   | Spherical Bearing          | 1        |                                                    |
|                                                                                                               | O'Ring                     | 2        |                                                    |
|                                                                                                               | Grease Nipple              | 1        |                                                    |
|                                                                                                               |                            |          |                                                    |
|  K9542<br>K9543<br>K9544 | Housing Plate              | 1        | BPW                                                |
|                                                                                                               | Housing Plate with Oilhole | 1        |                                                    |
|                                                                                                               | Spherical Bearing          | 1        |                                                    |
|                                                                                                               |                            |          |                                                    |
|  K9858                   | Dust Boot                  | 2        | BPW                                                |
|                                                                                                               | Dust Boot                  | 2        |                                                    |
|                                                                                                               | Dust Boot Clip             | 4        |                                                    |
|                                                                                                               |                            |          |                                                    |

Camshaft Support Repair Kits

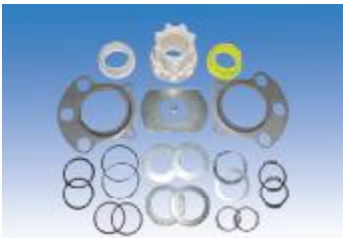
| Part No.                                                                                            | Description                | Quantity | Application          |
|-----------------------------------------------------------------------------------------------------|----------------------------|----------|----------------------|
|  K9607             | Bolt M8-25                 | 6        | BPW                  |
|                                                                                                     | Washer ID8                 | 6        |                      |
|                                                                                                     | Nut M8-6                   | 6        |                      |
|                                                                                                     |                            |          |                      |
|  K9622<br>A9622    | Dust Boot                  | 1        | BPW new style(1 cam) |
|                                                                                                     | Dust Boot Clip             | 1        |                      |
|                                                                                                     | Green O'Ring               | 1        |                      |
|                                                                                                     | Circlip                    | 2        |                      |
|                                                                                                     | Ring                       | 1        |                      |
|                                                                                                     | Nylon Bevel Washer         | 1        |                      |
|                                                                                                     | Washer                     | 1        |                      |
|                                                                                                     | Locknut                    | 1        |                      |
|                                                                                                     | Bush                       | 1        |                      |
|                                                                                                     | Spring Ring                | 1        |                      |
|                                                                                                     | Spherical Bearing (steel)  | 1        |                      |
|                                                                                                     | Housing Plate              | 1        |                      |
|                                                                                                     | Housing Plate with Oilhole | 1        |                      |
|  K9983<br>A9983   | Grease Nipple              | 1        | BPW old style(1 cam) |
|                                                                                                     | Dust Boot                  | 2        |                      |
|                                                                                                     | Dust Boot Clip             | 2        |                      |
|                                                                                                     | Nylon Bush                 | 1        |                      |
|                                                                                                     | Bolt                       | 6        |                      |
|                                                                                                     | Washer                     | 6        |                      |
|                                                                                                     | Nut                        | 6        |                      |
|                                                                                                     |                            |          |                      |
|                                                                                                     |                            |          |                      |
|                                                                                                     |                            |          |                      |
|  K9984           | Bronze Bush                | 1        | BPW                  |
|                                                                                                     | K9983                      | 1        |                      |
|                                                                                                     |                            |          |                      |
|  K9012<br>BP9012 | Bronze Bush                | 2        |                      |
|                                                                                                     | Spherical Bearing          | 2        |                      |
|                                                                                                     | Dust Boot                  | 2        |                      |
|                                                                                                     | Dust Boot                  | 2        |                      |
|                                                                                                     | Nylon Bevel Washer         | 2        |                      |
|                                                                                                     | Washer                     | 2        |                      |
|                                                                                                     | Locknut                    | 2        |                      |
|                                                                                                     | Spring Ring                | 2        |                      |
|                                                                                                     | Circlip                    | 4        |                      |
|                                                                                                     | Black O'Ring               | 2        |                      |
|                                                                                                     | Green O'Ring               | 2        |                      |
|                                                                                                     | Nylon Ring                 | 2        |                      |
|                                                                                                     | Pressing Ring              | 2        |                      |
|                                                                                                     |                            |          |                      |
|                                                                                                     |                            |          |                      |
|                                                                                                     |                            |          |                      |

Camshaft Support Repair Kits

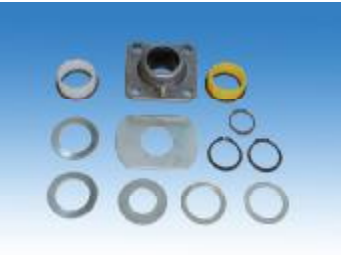
| Part No.                                                                                               | Description       | Quantity | Application                                |
|--------------------------------------------------------------------------------------------------------|-------------------|----------|--------------------------------------------|
|  K1665/2<br>A1665/2 | Camshaft Washer   | 1        | RUBERY Owentype<br>axles:<br>U+TM pre 1974 |
|                                                                                                        | 30mm Circlip      | 1        |                                            |
|                                                                                                        | O'Ring            | 2        |                                            |
|                                                                                                        | White Nylon Bush  | 1        |                                            |
|                                                                                                        | O'Ring            | 2        |                                            |
|                                                                                                        | Bevel Washer      | 2        |                                            |
|                                                                                                        | Circlip           | 2        |                                            |
|                                                                                                        | Washer            | 1        |                                            |
|                                                                                                        | Washer            | 1        |                                            |
|                                                                                                        | Yellow Nylon Bush | 1        |                                            |
|                                                                                                        | Spherical Bearing | 1        |                                            |
|                                                                                                        | Grease Nipple     | 1        |                                            |
|                                                                                                        | O'Ring            | 2        |                                            |
|                                                                                                        |                   |          |                                            |
|  K1643<br>A1643     | Spherical Bearing | 1        | YORK/TEC high<br>temp bush                 |
|                                                                                                        | Yellow Bush       | 1        |                                            |
|                                                                                                        | Pressings         | 2        |                                            |
|                                                                                                        | Washer            | 4        |                                            |
|                                                                                                        | O'Ring            | 4        |                                            |
|                                                                                                        | Dust Boot         | 1        |                                            |
|                                                                                                        | Grease Nipple     | 1        |                                            |
|                                                                                                        | Circlip           | 2        |                                            |
|                                                                                                        |                   |          |                                            |
|                                                                                                        |                   |          |                                            |
|  K1647<br>A1647   | Spherical Bearing | 1        | YORK/TEC old<br>type bush                  |
|                                                                                                        | White Bush        | 1        |                                            |
|                                                                                                        | Pressings         | 2        |                                            |
|                                                                                                        | Camshaft Washer   | 1        |                                            |
|                                                                                                        | Washer            | 4        |                                            |
|                                                                                                        | Circlip           | 2        |                                            |
|                                                                                                        | O'Ring            | 4        |                                            |
|                                                                                                        | Dust Boot         | 1        |                                            |
|                                                                                                        | Grease Nipple     | 1        |                                            |
|                                                                                                        |                   |          |                                            |
|                                                                                                        |                   |          |                                            |
|                                                                                                        |                   |          |                                            |
|  K2335<br>A2335   | Spherical Bearing | 1        | RUBERY Owentype<br>axles: TM 1974-76       |
|                                                                                                        | Grease Nipple     | 1        |                                            |
|                                                                                                        | White Bush        | 1        |                                            |
|                                                                                                        | Yellow Bush       | 1        |                                            |
|                                                                                                        | Camshaft Washer   | 1        |                                            |
|                                                                                                        | Bevel Washer      | 2        |                                            |
|                                                                                                        | Washer            | 1        |                                            |
|                                                                                                        | Washer            | 1        |                                            |
|                                                                                                        | Circlip           | 2        |                                            |
|                                                                                                        | O'Ring            | 2        |                                            |
|                                                                                                        | O'Ring            | 4        |                                            |
|                                                                                                        |                   |          |                                            |
|  K3600            | Bronze Bush       | 1        | SAF                                        |
|                                                                                                        | K3400             | 1        |                                            |
|                                                                                                        |                   |          |                                            |



Camshaft Support Repair Kits

| Part No.                                                                                                                 | Description                        | Quantity | Application                                            |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|--------------------------------------------------------|
| <br>K1665<br>A1665                      | Spherical Bearing                  | 1        | RUBERY Owen<br>type axles:<br>U+TM pre 1974            |
|                                                                                                                          | White Bush                         | 1        |                                                        |
|                                                                                                                          | Yellow Bush                        | 1        |                                                        |
|                                                                                                                          | Pressings                          | 2        |                                                        |
|                                                                                                                          | Camshaft Washer                    | 1        |                                                        |
|                                                                                                                          | Grease Nipple                      | 1        |                                                        |
|                                                                                                                          | Bevel Washer                       | 2        |                                                        |
|                                                                                                                          | Washer                             | 2        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Circlip                            | 2        |                                                        |
|                                                                                                                          | Circlip                            | 2        |                                                        |
|                                                                                                                          | O'Ring                             | 2        |                                                        |
|                                                                                                                          | O'Ring                             | 2        |                                                        |
|                                                                                                                          | O'Ring                             | 2        |                                                        |
| <br>K1668<br>P1057<br>P1032<br>AP132/1 | Camshaft Washer                    | 1        | RUBERY Owen<br>type axles:<br>TM after<br>1976(steppe) |
|                                                                                                                          | 30mmCirclip                        | 1        |                                                        |
|                                                                                                                          | O'Ring                             | 2        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Bevel Washer                       | 2        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
| <br>A1817                             | Bronze Bush                        | 1        | RUBERY Owen<br>type axles:<br>TM after<br>1976(steppe) |
|                                                                                                                          | Spherical Bearing NSB with 4 Holes | 1        |                                                        |
|                                                                                                                          | Camshaft Washer                    | 1        |                                                        |
|                                                                                                                          | 30mm Circlip                       | 1        |                                                        |
|                                                                                                                          | O'Ring                             | 2        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Circlip                            | 1        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Washer                             | 1        |                                                        |
|                                                                                                                          | Circlip                            | 1        |                                                        |
|                                                                                                                          | Circlip                            | 1        |                                                        |
| <br>A5930                             | Spherical Bearing                  | 2        | For FRUEHAUF<br>37Spline(2 cams)                       |
|                                                                                                                          | O'Ring                             | 4        |                                                        |
|                                                                                                                          | Grease Nipple                      | 2        |                                                        |
|                                                                                                                          | White Nylon Bush                   | 2        |                                                        |
|                                                                                                                          | Black Nylon Bush                   | 2        |                                                        |
|                                                                                                                          | O'Ring                             | 4        |                                                        |
|                                                                                                                          | O'Ring                             | 4        |                                                        |
|                                                                                                                          | Circlip                            | 2        |                                                        |
|                                                                                                                          | Circlip                            | 2        |                                                        |
| <br>K3400<br>A5777                    | Washer                             | 4        | SAF SK Series<br>(2 cams)                              |
|                                                                                                                          | Washer                             | 2        |                                                        |
|                                                                                                                          | Lipped edge pressing               | 2        |                                                        |
|                                                                                                                          | Spherical Bearing                  | 1        |                                                        |
|                                                                                                                          | Dust Boot                          | 2        |                                                        |
|                                                                                                                          | O'Ring                             | 4        |                                                        |
|                                                                                                                          | Bolt                               | 5        |                                                        |
|                                                                                                                          | Spring Washer                      | 5        |                                                        |

Camshaft Support Repair Kits

| Part No.                                                                                                         | Description                        | Quantity | Application                              |
|------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|------------------------------------------|
| <br>A8258<br>6503723T         | Spherical Bearing                  | 2        | SMB<br><br>BPW                           |
|                                                                                                                  | Bronze Bush                        | 2        |                                          |
|                                                                                                                  | Pressing                           | 4        |                                          |
|                                                                                                                  | O'Ring                             | 4        |                                          |
|                                                                                                                  | Circlip                            | 4        |                                          |
|                                                                                                                  | O'Ring                             | 4        |                                          |
|                                                                                                                  | Grease Nipple                      | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
| <br>K1809                     | Camshaft Washer                    | 1        | RUBERY Owen type<br>axles: TM after 1976 |
|                                                                                                                  | 30mmCirclip                        | 1        |                                          |
|                                                                                                                  | O'Ring                             | 2        |                                          |
|                                                                                                                  | O'Ring                             | 2        |                                          |
|                                                                                                                  | Bevel Washer                       | 2        |                                          |
|                                                                                                                  | Circlip                            | 2        |                                          |
|                                                                                                                  | Yellow Bush                        | 1        |                                          |
|                                                                                                                  | White Bush                         | 1        |                                          |
|                                                                                                                  | Washer                             | 2        |                                          |
|                                                                                                                  | Washer                             | 1        |                                          |
|                                                                                                                  | Washer                             | 1        |                                          |
|                                                                                                                  | Spherical Bearing NSB with 4 Holes | 1        |                                          |
| <br>SAF03268003500<br>K3500 | Housing Plate                      | 2        | SAF                                      |
|                                                                                                                  | Spherical Bearing                  | 1        |                                          |
|                                                                                                                  | Dust Boot                          | 2        |                                          |
|                                                                                                                  | O'Ring                             | 1        |                                          |
|                                                                                                                  | Bolt                               | 2        |                                          |
|                                                                                                                  | Spring Washer                      | 2        |                                          |
|                                                                                                                  | Nut                                | 2        |                                          |
|                                                                                                                  | Grease Nipple                      | 1        |                                          |
|                                                                                                                  | Guide Line                         | 1        |                                          |
|                                                                                                                  | Grease Nipple Cap                  | 1        |                                          |
|                                                                                                                  | O'Ring                             | 2        |                                          |
|                                                                                                                  | Spring Washer                      | 2        |                                          |
|                                                                                                                  | Bolt                               | 2        |                                          |
|                                                                                                                  | Washer                             | 1        |                                          |
|                                                                                                                  | Washer                             | 1        |                                          |



Brake Shoes



Type 1  
Standard Fit



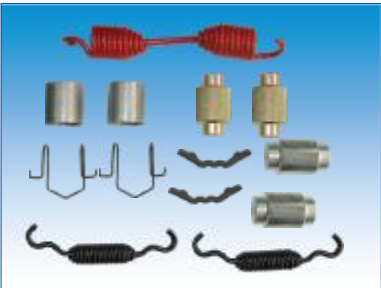
Type 2  
Quick Fit

| OEM No.                      | Reference No. | Brake dimension (mm) | Fit      | Brake lining reference |
|------------------------------|---------------|----------------------|----------|------------------------|
| 05.091.26.64.2               | BPW180        | 420x180              | Quick    | BC36/1                 |
| 05.091.46.17.0               | BPW180N       | 420x180              | Quick    | BC36/1                 |
| 05.091.27.54.2               | BPW200        | 420x200              | Quick    | BC37/1                 |
| 05.091.27.83.0               | BPW200N       | 420x200              | Quick    | BC37/1                 |
| 05.091.28.29.0               | BPW220N       | 420x220              | Quick    | BC81/1                 |
| 05.091.19.07.0               | BPW360        | 360x200              | Quick    | BC100/BC101            |
| 05.091.14.46.0               | BPW3020       | 300x200              | Quick    | BC80/1                 |
|                              |               |                      |          |                        |
| 3.054.0052.00                | SAF180        | 420x180              | Standard | BC36/1                 |
| 2.056.0120.00                | SAF180N       | 420x180              | Standard | BC36/1                 |
| 3.054.0053.00                | SAF200        | 420x200              | Standard | BC37/1                 |
| 2.056.0121.00                | SAF200N       | 420x200              | Standard | BC37/1                 |
| 3.054.0120.00                | SAF-SK9       | 420x180              | Standard | SJ28/SJ29              |
| 3.054.0122.00                | SAF-SK11      | 420x200              | Standard | SJ30/SJ31              |
| Supply to SAFAL-KO           | SAF203        | 420x203              | Standard | RW-1/2/5               |
|                              |               |                      |          |                        |
| 152.05.533                   | 4515Q         | 419x177.8            | Quick    | 4515E                  |
| 150.25.412                   | 4515E         | 419x177.8            | Standard | 4515E                  |
| A-JA0508-001                 | 4515P         | 419x177.8            | Standard | 4515E                  |
| 152.05.191                   | 4551Q         | 419x219              | Quick    | 4551                   |
| 152.00.007                   | 4551E         | 419x219              | Standard | 4551                   |
|                              |               |                      |          |                        |
| 152.24.724                   | 4707          | 419x177.8            | Quick    | 4707                   |
| EATON 819707                 | 4709          | 419x177.8            | Quick    | 4709                   |
| EATON 805442<br>EATON 805460 | 4311E         | 419x177.8            | Quick    | 4311J                  |
| MERITOR A3222E1383           | 4524Q         | 419x127              | Quick    | 4524B, TT11/12         |

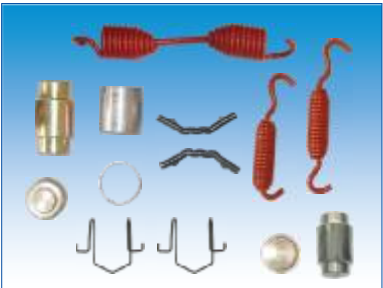
Brake Shoes

| OEM No.                            | Reference No. | Brake dimension | Fit   | Brake lining reference |
|------------------------------------|---------------|-----------------|-------|------------------------|
| MERITOR A3222E2223                 | 4702          | 381x101.5       | Quick | 4702                   |
| EATON807685                        | 1443E         | 381x101.5       | Quick | 1443TT                 |
| MERITOR A3222F1982                 | 1308Q         | 381x101.5       | Quick | 1308                   |
| MERITOR A3222Q1837<br>EATON1005840 | 1308E         | 381x101.5       | Quick | 1308                   |
| 15206227                           | 4516          | 419x203         | Quick | RW-1/2/5               |
| MERITOR A3222C1381                 | 4514          | 419x152.4       | Quick | LL68/69                |

Brake Shoe Repair Kits



Part No.:E-2769SHD  
Application: 4515E/4707/4551E/  
4711/4715/4524B



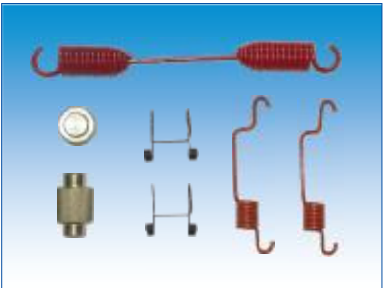
Part No.:3710HDP



Part No.:3710SP



Part No.:7296



Part No.:10244P



Part No.:60441



Part No.:AXL125



Part No.:BPW1



Part No.:BPW2



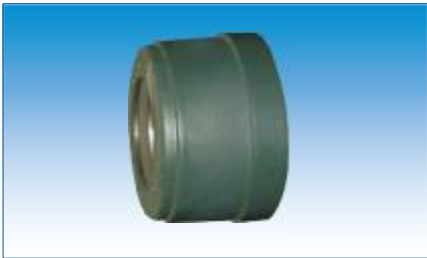
Brake Shoe Return & Retaining Springs



(Inch)

| Part No. | Drawing | O.L      | O.D     | Wire I.D | Application                                                          | Replace                                            |
|----------|---------|----------|---------|----------|----------------------------------------------------------------------|----------------------------------------------------|
| SP73437  |         | 7-3/16"  | 7/8"    | .125"    | For: Meritor 15" "T" Brake                                           | Euclid: E-3437<br>Leland: L-1734<br>Spicer: 19-896 |
| SP71880B |         | 8"       | 1-1/4"  | .192"    | For : Heavy Duty Version B971                                        | Euclid:E-1880B<br>Leland:L-827<br>Spicer:19-853    |
| SP7384   |         | 8-5/16"  | 1-1/8"  | .162"    | For: Bendix 16-1/2"Truck/Tractor Brake                               | Leland:L-2993<br>Spicer:19-906                     |
| SP79069  |         | 8-9/16"  | 1-1/8"  | .162"    | For: Meritor Front "FL"Brake                                         | Euclid:E-9069<br>Leland:L-3183<br>Spicer:19-913    |
| SP7543   |         | 9"       | 1-1/8"  | .162"    | For: Meritor "P"Cast Shoe                                            | Euclid:E-543<br>Leland:L-115<br>Spicer:19-878      |
| SP72475  |         | 10"      | 1-3/16" | .176"    | For: Eaton (Ford)High Mount                                          | Euclid:E-2475<br>Leland:L-1603<br>Spicer:19-874    |
| SP710197 |         | 10-3/4"  | 1-1/8"  | .192"    | For: Eaton 16-1/2" "ES", "ES-II"Brake                                | Euclid:E-10197<br>Leland:L-3370<br>Spicer:19-915   |
| SP73512  |         | 6"       | 3/4"    | .135"    | For: Meritor 18" Brakewith Cast Shoes                                | Euclid: E-3512<br>Leland: L-2858<br>Spicer: 19-865 |
| SP71418  |         | 4-17/32" | 1"      | .142"    | For: Eaton 16-1/2" S.A.P. Brake                                      | Euclid: E-1418<br>Leland: L-967<br>Spicer: 19-859  |
| SP7383   |         | 5-13/16" | 3/4"    | .162"    | For: Bendix 15" FrontBrake                                           | Spicer: 19-905                                     |
| SP7385   |         | 5-1/4"   | 11/16"  | .125"    | For: Bendix 16-1/2" Brake                                            | Leland: L-2994<br>Spicer: 19-907                   |
| SP72767  |         | 5-1/2"   | 3/4"    | .125"    | For: Eaton 15"x8-5/8", Meritor & Spicer "Q", "FC" and Fruehauf "XEM" | Euclid: E-2767<br>Leland: L-1417<br>Spicer: 19-860 |
| SP75088  |         | 6-5/16"  | 3/4"    | .140"    | For: Mack 50,000# "Q" Brake                                          | Euclid: E-5088<br>Leland: L-2953<br>Spicer: 19-900 |
| SP72805  |         | 4-5/8"   | 1-1/4"  | .160"    | For: Eaton 18"x7" Brake                                              | Euclid: E-2805<br>Leland: L-1625<br>Spicer: 19-877 |

Brake Drums



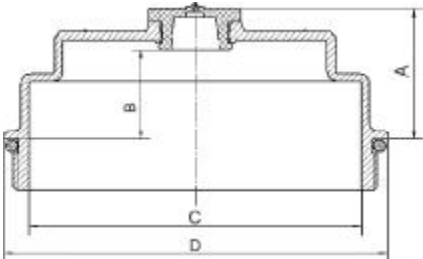
| Model    | OEM No.    | Model     | OEM No.      | Model      | OEM No.       |
|----------|------------|-----------|--------------|------------|---------------|
| ALTUNYAY | H-97102E   | BPW       | 0310677530   | ISUZU      | 8-97188-115-0 |
| ALTUNYAY | H-97500    |           |              | ISUZU      | 8-97081-218-1 |
| ALTUNYAY | H-97128    | DAEWOO    | 34531-00740  |            |               |
|          |            | DAEWOO    | 34531-00741  | KAMAZ      | 5511-3501070  |
| BENZ     | 3054210401 |           |              |            |               |
| BENZ     | 3054210101 | DRUABRAKE | 16792        | LIAZ       | 22.3502070.20 |
| BENZ     | 3054210001 | DRUABRAKE | 16439        | LIAZ       | 22.3502070.22 |
| BENZ     | 3834530201 | DRUABRAKE | 1771         |            |               |
| BENZ     | 3054230401 | DRUABRAKE | 1534         | MAN        | 81501100144   |
| BENZ     | 3054230301 |           |              | MAN        | 81501103144   |
| BENZ     | 3054230701 | GUNITE    | GUNITE3600A  | MAN        | 81501100104   |
| BENZ     | 3464230501 | GUNITE    | GUNITE3600B  |            |               |
| BENZ     | 3464230101 | GUNITE    | GUNITE3600AX | MAZ        | 64221-3502070 |
| BENZ     | 3464230601 | GUNITE    | GUNITE3721AX | MAZ        | 64221-3501070 |
| BENZ     | 3464230001 | GUNITE    | GUNITE3800X  | MAZ        | 5336-3501070  |
| BENZ     | 3264230001 | GUNITE    | GUNITE3782X  | MAZ        | 53361-3502070 |
| BENZ     | 3464231201 | GUNITE    | GUNITE3782   | MAZ        | 4370-3501070  |
| BENZ     | 6244210201 | GUNITE    | GUNITE3166   | MAZ        | 6430-3501070  |
| BENZ     | 6584210001 | GUNITE    | GUNITE2705   | MAZ        | 6430-3502070  |
| BENZ     | 3904230001 | GUNITE    | GUNITE2983C  | MAZ        | 4370-3502070  |
|          |            |           |              | MAZ        | 5440-3502070  |
| BPW      | 0310677040 | HINO      | 2303-3502    | MAZ        | 9397-3502070  |
| BPW      | 0310677560 | HINO      | 12303-02203  |            |               |
| BPW      | 0310677630 |           |              | MITSUBISHI | MC807783      |
| BPW      | 0310679060 | HYUNDA    | 51761-83411  | MITSUBISHI | MC807781      |
| BPW      | 0310977720 | HYUNDA    | 52761-83420  | MITSUBISHI | MC865370      |
| BPW      | 0310677570 |           |              | MITSUBISHI | Mc838283      |
| BPW      | 0310977160 | IKRUS     | 118.003341   |            |               |
| BPW      | M894212    | IKRUS     | 677-3501070  | NISSAN     | 40206-90011   |
| BPW      | 6502807M   |           |              | NISSAN     | 43207-90107   |
| BPW      | 0310967250 | IVECO     | 7183046      | NISSAN     | 43207-90106   |
| BPW      | 0310977240 | IVECO     | 7183047      | NISSAN     | 43207-90118   |
| BPW      | 0310977250 | IVECO     | 7183050      |            |               |



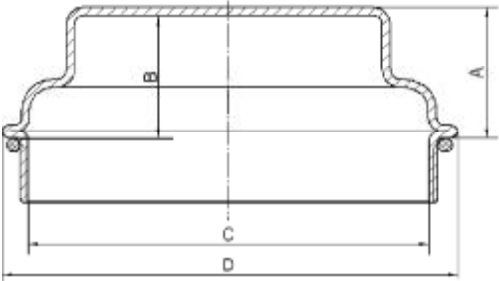
Brake Drums

| Model   | OEM No.     | Model  | OEM No.      | Model | OEM No.    |
|---------|-------------|--------|--------------|-------|------------|
| RENAULT | 5000737768  | SCANIA | 157676       | WEBB  | WEBB66864F |
| RENAULT | 0192371     | SCANIA | 1414153      | WEBB  | WEBB66864B |
| RENAULT | 0194456     | SCANIA | 1361331      | WEBB  | WEBB66884B |
| RENAULT | 0194435     | SCANIA | 392386       | WEBB  | WEBB61528B |
| RENAULT | 0189937     | SCANIA | 360571       | WEBB  | WEBB65548B |
| RENAULT | 0194536     | SCANIA | 1333117      | WEBB  | WEBB66800B |
| RENAULT | 0189923     | SCANIA | 126.074.00HD | WEBB  | WEBB66800F |
| RENAULT | 5000737459  |        |              | WEBB  | WEBB66853B |
|         |             | TOYOTA | 43512-2450   | WEBB  | WEBB66893F |
| ROR     | 21021114    | TOYOTA | 43512-1710   | WEBB  | WEBB62200F |
| ROR     | 21021114A   | TOYOTA | 43512-1193   | WEBB  | WEBB62200  |
| ROR     | 21020038    | TOYOTA | 43512-1290   | WEBB  | WEBB67518F |
| ROR     | 21021164    | TOYOTA | 43512-4820A  |       |            |
| ROR     | 21023064    | TOYOTA | 43512-4440   | YORK  | 789115     |
| ROR     | 21018986    | TOYOTA | 43512-2240   | YORK  | 786107     |
| ROR     | 21021163    | TOYOTA | 43512-2840   | YORK  | 788801     |
| ROR     | 21021284    | TOYOTA | 43512-3850   | YORK  | 786109     |
| ROR     | 22021163    |        |              | YORK  | 788912A    |
|         |             | VOLVO  | 15990009     | YORK  | 580152     |
| SAF     | 01064010801 | VOLVO  | 1599011      | YORK  | 7183046    |
| SAF     | 01064028001 | VOLVO  | 1599971      | YORK  | 7183047    |
| SAF     | 01064029200 | VOLVO  | 146.048.00HD |       |            |
| SAF     | 01064019700 | VOLVO  | 1599012      |       |            |
| SAF     | 01064027300 | VOLVO  | 1599972      |       |            |
| SAF     | 01064027000 | VOLVO  | 146.073.00HD |       |            |
| SAF     | 01064026002 | VOLVO  | 1599968      |       |            |
| SAF     | 01064026001 |        |              |       |            |
| SAF     | 01064014412 |        |              |       |            |
| SAF     | 01064027800 |        |              |       |            |
| SAF     | 01064027700 |        |              |       |            |

Hub Caps

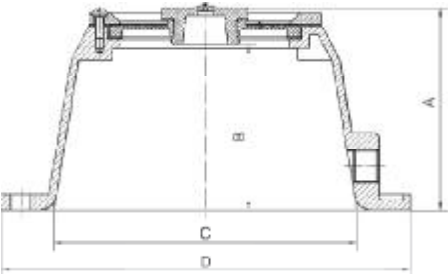


| Part No.   | Thread size | Height A | Inside Depth B | Flange I.D. C | Flange O.D. D |
|------------|-------------|----------|----------------|---------------|---------------|
| HC-OALT001 | 6.22" -8UNF | 55       | 38.6           | 145           | 166           |
| HC-OOGT001 | 6.22" -8UNF | 51.5     | 35             | 145           | 171           |



Unit: mm

| Part No.   | Cross Ref. | Thread size | Height A | Inside Depth B | Flange I.D. C | Flange O.D. D |
|------------|------------|-------------|----------|----------------|---------------|---------------|
| HC-GPST001 | ZZ3283     | 6.22" -8UNF | 44.5     | 41.5           | 152           | 172           |



Unit: mm

| Part No.   | Cross Ref. | Bolt Circle | Bolt Size Inch | No. of Bolts | Height A | Inside Depth B | Flange I.D. C | Flange O.D. D |
|------------|------------|-------------|----------------|--------------|----------|----------------|---------------|---------------|
| HC-OALH001 | 343-4009   | 139.7       | 5/16"          | 6            | 67.3     | 50             | 117           | 159           |
| HC-OALH002 | 352-4195   | 171.45      | 5/16"          | 6            | 92.6     | 76.1           | 141           | 190           |

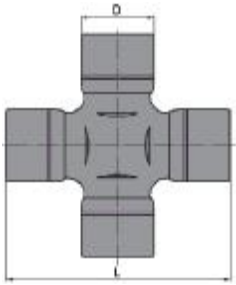
Axle Nut Kits

|                                                                                     | Name             | Model   | Specification |
|-------------------------------------------------------------------------------------|------------------|---------|---------------|
|    | Axle Nut Kit     | YORK    | SW95XM65      |
|    | Axle Nut Kit     | KIC, RW | 2-5/8"-16     |
|    | Axle Nut Kit     | SAF     | M56X1.5       |
|   | Bearing Lock Nut | Transit | M48X20        |
|  | Bearing Lock Nut | EQ140   | M72X102       |
|  | Bearing Lock Nut | BPW     | M52X70A       |
|                                                                                     |                  |         | M52X70        |
|                                                                                     |                  |         | M54X70        |

Bolts

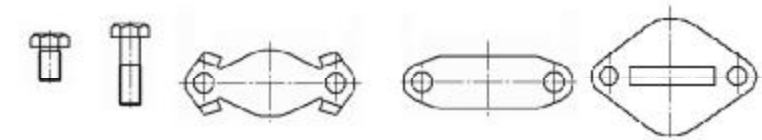
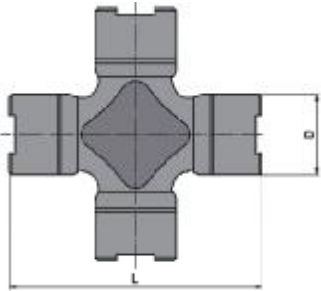
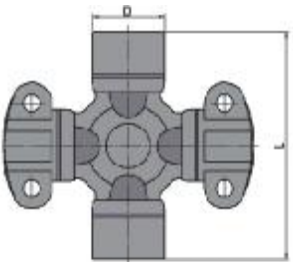


Universal Joints



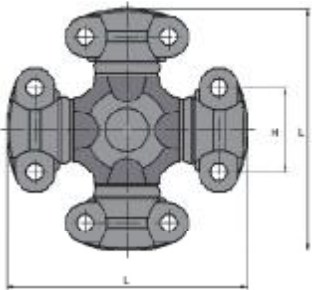
Type A: U-Joints with 4 plain round bearings

Type B: U-Joints with 2 wing bearings and 2 plain round bearings



Type C: U-Joints with thrust plate bearings

Type E: U-Joints with 4 wing bearings





Universal Joints

| Application | Part No. | OEM No.             | Reference No. | Dimension (mm) |        | Type |
|-------------|----------|---------------------|---------------|----------------|--------|------|
|             |          |                     |               | D              | L      |      |
| DAF         | 5-160X   | 608921              | CR1002        | 30.20          | 106.30 | A    |
| DAF         | GU3000   |                     |               | 39.69          | 115.95 | A    |
| DAF         | GU7670   | 609866              | CR1039-48L    | 48.00          | 116.50 | A    |
| DAF         | GU7560   |                     |               | 52.10          | 133.00 | A    |
| DAF         | HS288    | 505698              | CR1208        | 57.00          | 144.00 | A    |
| DAF         | U447     | 609057              | CR2001        | 42.12          | 104.50 | C    |
|             |          |                     |               |                |        |      |
| HINO        | GUH-63   | 3-331-3403-01       |               | 35.01          | 99.00  | A    |
| HINO        | GUH-65   | 3-445-3403-04       |               | 36.00          | 110.30 | A    |
| HINO        | GUH-74   | 37401-1100          |               | 36.00          | 115.60 | A    |
| HINO        | GUH-60   | 37401-1172          |               | 40.20          | 115.00 | A    |
| HINO        | GUH-68   | 04037-4008          |               | 47.00          | 144.00 | C    |
| HINO        | GUH-62   | 3-302-3403-01       |               | 47.00          | 138.00 | C    |
| HINO        | GUH-70   | 37401-1061          |               | 47.00          | 138.00 | C    |
| HINO        | GUH-71   | 37401-1010          |               | 47.00          | 144.00 | C    |
| HINO        | GUH-72   | 37401-1080          |               | 47.00          | 144.00 | C    |
| HINO        | GUH-61   | 9-953-3401-01       |               | 47.00          | 124.00 | C    |
| HINO        | GUH-64   | 3-302-3403-06       |               | 50.00          | 159.00 | C    |
| HINO        | GUH-73   | 37401-1021          |               | 50.00          | 165.00 | C    |
| HINO        | GUH-75   | 37401-1180          |               | 58.03          | 175.00 | C    |
| HINO        | GUH-67   | 3-301-3403-01       |               | 49.20          | 148.38 | E    |
|             |          |                     |               |                |        |      |
| ISUZU       | GUIS-66  | 5-37300-032-0       | UJ325         | 33.00          | 93.00  | A    |
| ISUZU       | GUIS-65  | 1-37300-004-0       |               | 45.98          | 136.00 | C    |
| ISUZU       | GUIS60   | 9-37300-139-0       | UJ339         | 49.20          | 148.38 | E    |
| ISUZU       | GUIS-67  | 1-37300-049-0       |               | 56.00          | 173.90 | E    |
|             |          |                     |               |                |        |      |
| IVECO       | 5-134X   | 1905986-(93160322)  | CR1001        | 27.00          | 81.70  | A    |
| IVECO       | 5-160X   | 92601339-(93158199) | CR1002        | 30.20          | 106.30 | A    |
| IVECO       | 5-178X   | 8197741             | CR1003        | 30.20          | 91.95  | A    |
| IVECO       | HS263    | 93160225            | CR1096        | 34.93          | 106.31 | A    |
| IVECO       | W39116Q  | 4685815             | CR1046        | 39.00          | 116.40 | A    |
| IVECO       | GU3000   | 7984508             | CR1028        | 39.69          | 115.95 | A    |

Universal Joints

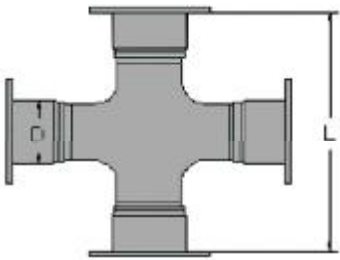
| Application | Part No.    | OEM No.             | Reference No. | Dimension (mm) |        | Type |
|-------------|-------------|---------------------|---------------|----------------|--------|------|
|             |             |                     |               | D              | L      |      |
| IVECO       | SPL90-1X    | 42532346            | CR1183        | 41.20          | 126.00 | A    |
| IVECO       | W42120P     | 42533841-(93160228) | CR2002        | 42.10          | 119.50 | A    |
| IVECO       | W48135P     | 93160516            | CR1164        | 47.60          | 135.20 | A    |
| IVECO       | KR1.760.205 | 42537898-(93192015) | CR2006        | 47.68          | 135.20 | A    |
| IVECO       | GU7670      | 93159313-(42484713) | CR1039-48L    | 48.00          | 116.50 | A    |
| IVECO       | U762        | 42485180            | CR1125        | 48.05          | 125.80 | A    |
| IVECO       | GU7560      | 8198583             | CR1122        | 52.10          | 133.00 | A    |
| IVECO       | W57172P     | 93157114            | CR1195        | 57.00          | 172.00 | A    |
| IVECO       | HS288       | 93190028-(42491973) | CR1208        | 57.00          | 144.00 | A    |
| IVECO       | U763        | 103269              | CR1123        | 57.07          | 152.00 | A    |
| IVECO       | 6454100131  | 93156581            | CR2005        | 65.04          | 172.00 | A    |
| IVECO       | U447        | 42480741            | CR2001        | 42.12          | 104.50 | C    |
| IVECO       | HS316       | 9981618             | CR1058        | 47.60          | 134.90 | C    |
| IVECO       | HS337       | 4672046             | CR1211        | 49.00          | 155.00 | C    |
| IVECO       | GU5000      | 7981263             | CR1099        | 49.23          | 154.76 | C    |
| IVECO       | A59168Q     | 7981058             | CR1203        | 58.90          | 167.50 | C    |
|             |             |                     |               |                |        |      |
| MAN         | GU7670      | 81.39200.6011       | CR1039-48L    | 48.00          | 116.50 | A    |
| MAN         | GU7560      | 81.39200.6016       | CR1122        | 52.10          | 133.00 | A    |
| MAN         | HS288       | 81.39200.6015       | CR1208        | 57.00          | 144.00 | A    |
|             |             |                     |               |                |        |      |
| MERCEDES    | U762        | 973.410.0031        | CR1125        | 48.05          | 125.80 | A    |
| MERCEDES    | GU7560      | 335.410.0031        | CR1122        | 52.10          | 133.00 | A    |
| MERCEDES    | HS284       | 363.410.0631        | CR2004        | 53.00          | 135.00 | A    |
| MERCEDES    | U763        | 387.410.0031        | CR1123        | 57.07          | 152.00 | A    |
|             |             |                     |               |                |        |      |
| MITSUBISHI  | GUM-73      | GPW18397            | UJ620         | 27.00          | 81.75  | A    |
| MITSUBISHI  | GUM-71      | 14501-27000         | UJ610         | 44.00          | 129.00 | C    |
| MITSUBISHI  | GUM-80      | 12018-01110         | UJ612         | 46.00          | 142.00 | C    |
| MITSUBISHI  | GUM-90      | 14801-06001         | UJ629         | 46.00          | 148.00 | C    |
| MITSUBISHI  | GUM-83      | 12019-10000         | UJ262         | 52.00          | 153.80 | C    |
|             |             |                     |               |                |        |      |
| NISSAN      | GUN-47      | 37125-25025         |               | 27.00          | 81.75  | A    |



Universal Joints

| Application | Part No. | OEM No.          | Reference No. | Dimension (mm) |        | Type |
|-------------|----------|------------------|---------------|----------------|--------|------|
|             |          |                  |               | D              | L      |      |
| NISSAN      | GUN-48   | 37125-7F025      |               | 27.00          | 81.75  | A    |
| NISSAN      | GUN-31   | 37125-50001      | UJ114         | 32.00          | 107.00 | C    |
| NISSAN      | GUN-41   | 37125-90128      | UJ120         | 43.00          | 135.50 | C    |
| NISSAN      | GUN-43   | 37125-90027      | UJ125         | 55.10          | 163.80 | C    |
|             |          |                  |               |                |        |      |
| RENAULT     | 5-160X   | 09.43.541.418    | CR1002        | 30.20          | 106.30 | A    |
| RENAULT     | GU3000   | 09.43.541.500    | CR1028        | 39.69          | 115.95 | A    |
| RENAULT     | GU7560   | 50.00.242.009    | CR1122        | 52.10          | 133.00 | A    |
| RENAULT     | HS288    | 50.00.559.743    | CR1208        | 57.00          | 144.00 | A    |
| RENAULT     | HS316    | 09.43.541.600    | CR1058        | 47.60          | 134.90 | C    |
| RENAULT     | GU5000   | 09.43.540.918    | CR1099        | 49.23          | 154.76 | C    |
| RENAULT     | A59168Q  | 50.00.803.045    | CR1203        | 58.90          | 167.50 | C    |
|             |          |                  |               |                |        |      |
| SCANIA      | GU3000   | 750610           | CR1028        | 39.69          | 115.95 | A    |
| SCANIA      | 5-12278X | 264044-(207563)  | CR1116        | 50.00          | 164.00 | A    |
| SCANIA      | CZ-280   | 1422442-(386073) | CR1132        | 65.03          | 189.70 | A    |
| SCANIA      | CZ-265   | 365901-(337059)  | CR1105        | 48.00          | 161.00 | B    |
|             |          |                  |               |                |        |      |
| TOYOTA      | GUT-14   | 04371-60010      | UJ214         | 28.50          | 77.90  | A    |
| TOYOTA      | GUT-16   | 04371-55020      | T40119        | 39.98          | 111.00 | C    |
|             |          |                  |               |                |        |      |
| VOLVO       | 5-160X   | 6852586          | CR1002        | 30.20          | 106.30 | A    |
| VOLVO       | GU3000   | 6852612          | CR1028        | 39.69          | 115.95 | A    |
| VOLVO       | HS381    | 1651032          | CR1209        | 50.00          | 152.50 | A    |
| VOLVO       | GU7560   | 232362           | CR1122        | 52.10          | 133.00 | A    |
| VOLVO       | HS288    | 232540           | CR1208        | 57.00          | 144.00 | A    |
| VOLVO       | Q57153P  | 1651229          | CR1207        | 57.00          | 152.60 | A    |
| VOLVO       | HS316    | 6621920          | CR1058        | 47.60          | 134.90 | C    |

Universal Joints



Type D: U-Joints with 4 welder plate type bearings

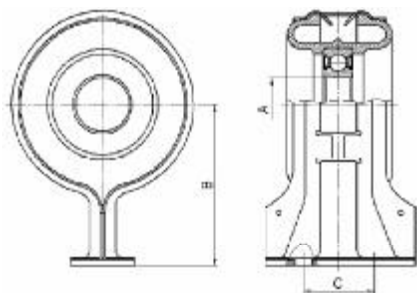
| Part No. | Reference No. |       |       |          | Dimension (mm) |        | Type |
|----------|---------------|-------|-------|----------|----------------|--------|------|
|          | Precision     | GKN   | Alloy | Rockwell | D              | L      |      |
| 5-115X   | 332           | HS308 | 1757  | CP115X   | 39.68          | 116.00 | D    |
| 5-279X   | 333           | HS336 | 1807  | CP16NS   | 47.62          | 134.80 | D    |
| 5-280X   | 334           | HS337 | 1802  | CP17NS   | 49.20          | 154.90 | D    |
| 5-407X   | 376           | HS338 | 1808  | CP176NS  | 49.20          | 178.00 | D    |
| 5-281X   | 381           | HS334 | 1810  | CP18NS   | 49.20          | 191.90 | D    |
| 5-308X   | 388           | HS348 |       |          | 55.50          | 206.00 | D    |
| 5-124X   | 335           | HS324 | 1804  | CP124X   | 58.98          | 167.60 | D    |



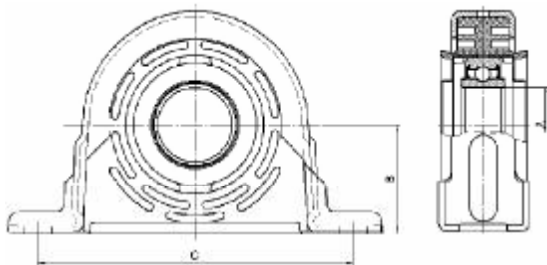
Drive Shaft Center Support Bearings & Assemblies

Plastic Coating for Better Performance

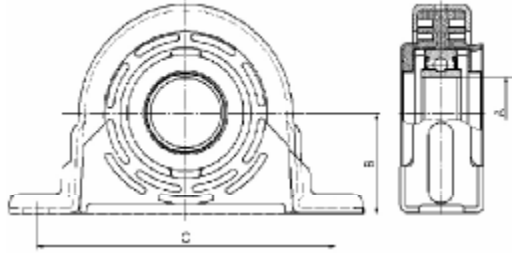
- Spalling resistance
- Moisture proofing
- Corrosion proof
- Rustproof



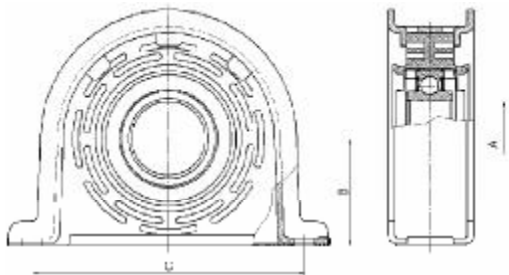
Type 1



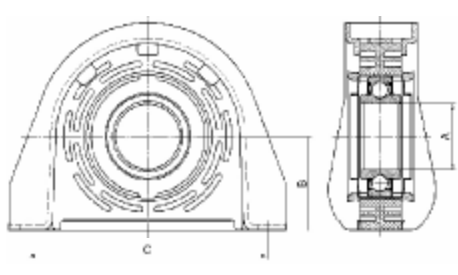
Type 2



Type 3



Type 4



Type 5

■ For American Vehicles

| Part No. | Ref. No.  | Type | Boundary Dimensions |    |         |      |         |        | Flinger           |        | Bearing No. |
|----------|-----------|------|---------------------|----|---------|------|---------|--------|-------------------|--------|-------------|
|          |           |      | A                   |    | B       |      | C       |        | Part No.          | Qty.   |             |
|          |           |      | Inch                | mm | Inch    | mm   | Inch    | mm     |                   |        |             |
| HB106FF  |           | 4    | 1.2595              | 32 | 1-61/64 | 49.6 | 5-57/64 | 22.61  |                   |        |             |
| HB206FF  | 210527X   | 1    | 1.1811              | 30 | 3-1/2   | 88.9 |         |        |                   |        | 6206-2RS    |
| HBD206FF |           | 3    | 1.1811              | 30 | 1-61/64 | 49.6 | 5-57/64 | 22.61  |                   |        |             |
| HB88107A | 211139X   | 2    | 1.3780              | 35 | 2-1/4   | 57.1 | 6-5/8   | 168.28 |                   |        | 88107       |
| HB88107B | 210088-1X | 2    | 1.3780              | 35 | 2-15/64 | 56.7 | 6-5/8   | 168.28 | 230118<br>230121  | 1<br>1 | 88107       |
| HB88107C | 210090-1X | 2    | 1.3780              | 35 | 2-15/64 | 56.7 | 6-5/8   | 168.28 | 230118            | 2      | 88107       |
| HB88107D |           | 2    | 1.3780              | 35 | 2-15/64 | 56.7 | 6-5/8   | 168.28 | 230141<br>98-1473 | 1<br>2 | 88107       |

Drive Shaft Center Support Bearings & Assemblies

■ For American Vehicles

| Part No.  | Ref. No.  | Type | Boundary Dimensions |    |         |       |       |        | Flinger                     |             | Bearing No. |
|-----------|-----------|------|---------------------|----|---------|-------|-------|--------|-----------------------------|-------------|-------------|
|           |           |      | A                   |    | B       |       | C     |        | Part No.                    | Qty.        |             |
|           |           |      | Inch                | mm | Inch    | mm    | Inch  | mm     |                             |             |             |
| HB88107E  | 210370-1X | 2    | 1.3780              | 35 | 2-15/64 | 56.7  | 6-5/8 | 168.28 | 230141<br>230104<br>98-1473 | 1<br>1<br>1 | 88107       |
| HB88508   | 211098-1X | 4    | 1.5748              | 40 | 2-1/2   | 63.5  | 6-5/8 | 168.28 |                             |             | 88508       |
| HB88508A  |           | 2    | 1.5748              | 40 | 2-1/4   | 57.15 | 6-5/8 | 168.28 |                             |             | 88508A      |
| HB88508AA | 210873-1X | 2    | 1.5748              | 40 | 2-1/4   | 57.15 | 6-5/8 | 168.28 | 231004                      | 2           | 88508A      |
| HB88508AB | 210866-1X | 2    | 1.5748              | 40 | 2-1/4   | 57.15 | 6-5/8 | 168.28 | 231004<br>231000            | 1<br>1      | 88508A      |
| HB88508B  | 210433-1X | 4    | 1.5748              | 40 | 2-1/2   | 63.5  | 6-5/8 | 168.28 | 230124<br>230209            | 1<br>1      | 88508       |
| HB88508C  | 210140-1X | 4    | 1.5748              | 40 | 2-1/2   | 63.5  | 6-5/8 | 168.28 | 230207<br>230208            | 1<br>1      | 88508       |
| HB88508D  |           | 4    | 1.5748              | 40 | 2-1/2   | 63.5  | 6-5/8 | 168.28 | 230207<br>230208            | 2<br>1      | 88508       |
| HB88508E  | 210391-1X | 4    | 1.5748              | 40 | 2-1/2   | 63.5  | 6-5/8 | 168.28 | 230124                      | 2           | 88508       |
| HB88509   | 210969X   | 4    | 1.7717              | 45 | 2-23/32 | 69.06 | 7-5/8 | 193.68 |                             |             | 88509       |
| HB88509A  | 210084-2X | 4    | 1.7717              | 45 | 2-23/32 | 69.06 | 7-5/8 | 193.68 | 230151                      | 2           | 88509       |
| HB88509B  | 211172-1X | 4    | 1.7717              | 45 | 2-23/32 | 69.06 | 7-5/8 | 193.68 | 230151<br>230363            | 2<br>1      | 88509       |
| HB88509C  | 210207-1X | 4    | 1.7717              | 45 | 2-23/32 | 69.06 | 7-5/8 | 193.68 | 230151<br>230363            | 1<br>1      | 88509       |
| HB88510*  | 210121-1X | 4    | 1.9685              | 50 | 2-13/16 | 71.45 | 7-5/8 | 193.68 | 230166                      | 2           | 88510       |
| HB88512   |           | 4    | 2.3622              | 60 | 3-3/8   | 85.73 | 8-5/8 | 219.08 | 230746                      | 2           | 88512       |
| HB88512A* | 210661-1X | 5    | 2.3622              | 60 | 3-3/8   | 85.73 | 8-5/8 | 219.08 | 230746                      | 2           | 88512       |

Note: "\*" means solid cushion type is also available

■ For European Vehicles

| Part No. | Ref. No. | Type | Boundary Dimensions |        |        | Flinger               |      | Bearing No. | Remark               |
|----------|----------|------|---------------------|--------|--------|-----------------------|------|-------------|----------------------|
|          |          |      | A (mm)              | B (mm) | C (mm) | Part No.              | Qty. |             |                      |
| HB6207T  |          | 2    | 35                  | 57.1   | 168.28 | -                     | -    | 6207-2RS    | Tab frame            |
| HB88507T |          | 2    | 35                  | 57.1   | 168.28 | -                     | -    | 88507       | Tab frame            |
| HB6207   | HB35     | 4    | 35                  | 58     | 168.28 | flinger on both sides |      | 6207-2RS    |                      |
| HB88507  |          | 4    | 35                  | 58     | 168.28 | flinger on both sides |      | 88507       |                      |
| HB6208   |          | 4    | 40                  | 63.5   | 168.28 | 230124<br>230207      | 2    | 6208-2RS    |                      |
| HB88508E |          | 4    | 40                  | 63.5   | 168.28 | 230124                | 2    | 88508       |                      |
| HB6209   | HB45     | 4    | 45                  | 69.06  | 193.68 | flinger on both sides |      | 6209-2RS    |                      |
| HB88509A |          | 4    | 45                  | 69.06  | 193.68 | 230151                | 2    | 88509       |                      |
| HB6210L  |          | 4    | 50                  | 71.45  | 193.68 | 230166                | 2    | 6210-2RS    | Lower center height  |
| HB6210   | HB50     | 4    | 50                  | 74     | 193.68 | flinger on both sides |      | 6210-2RS    |                      |
| HB88510H |          | 4    | 50                  | 74     | 193.68 | flinger on both sides |      | 88510       | Higher center height |
| HB6011   | HB55     | 4    | 55                  | 71.45  | 193.68 | 230166                | 2    | 6011-2RS    |                      |
| HB6011H  |          | 4    | 55                  | 74     | 193.68 | flinger on both sides |      | 6011-2RS    | Higher center height |
| HB6212A  |          | 5    | 60                  | 85.73  | 219.08 | 230746                | 2    | 6212-2RS    |                      |

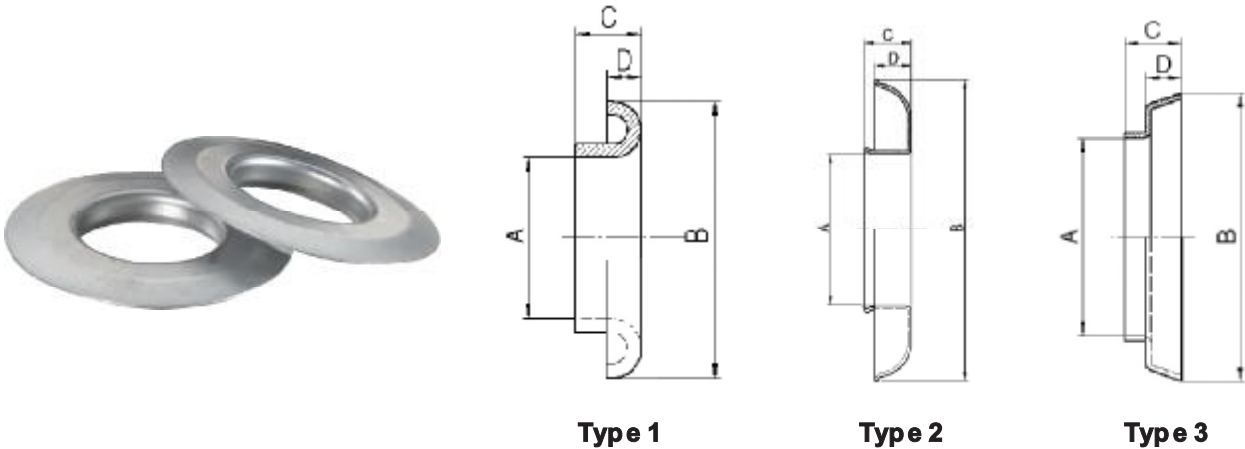


Drive Shaft Center Support Bearings & Assemblies

■ For European Vehicles

| Part No. | Ref. No. | Type | Boundary Dimensions |        |        | Flinger  |      | Bearing No. | Remark              |
|----------|----------|------|---------------------|--------|--------|----------|------|-------------|---------------------|
|          |          |      | A (mm)              | B (mm) | C (mm) | Part No. | Qty. |             |                     |
| HB6212   |          | 4    | 60                  | 82.5   | 200    | -        | -    | 6212-2RS    |                     |
| HB88512L | HB60     | 4    | 60                  | 82.5   | 200    | -        | -    | 88512       | lower center height |
| HB88512A |          | 5    | 60                  | 85.73  | 219.08 | 230746   | 2    | 88512       |                     |
| HB6014A  |          | 5    | 70                  | 85.73  | 219.08 | 230746   | 2    | 6014-2RS    |                     |

■ Bearing Flingers



| Part No. | Type | Boundary Dimension |      |       |        |       |       |       |      |
|----------|------|--------------------|------|-------|--------|-------|-------|-------|------|
|          |      | A                  |      | B     |        | C     |       | D     |      |
|          |      | Inch               | mm   | Inch  | mm     | Inch  | mm    | Inch  | mm   |
| 230104   | 1    | 1.374              | 34.9 | 2.562 | 65.07  | 0.75  | 19.05 | 0.335 | 8.5  |
| 230118   | 2    | 2.057              | 52.2 | 4     | 101.6  | 0.562 | 14.27 | 0.335 | 8.5  |
| 230121   | 1    | 1.374              | 34.9 | 2.437 | 61.9   | 0.625 | 15.88 | 0.315 | 8    |
| 230124   | 2    | 2.306              | 58.6 | 4.375 | 111.13 | 0.562 | 14.27 | 0.394 | 10   |
| 230141   | 2    | 1.757              | 44.6 | 4     | 101.6  | 0.828 | 21.03 | 0.630 | 16   |
| 230151   | 2    | 2.556              | 64.9 | 4.562 | 115.87 | 0.562 | 14.27 | 0.512 | 13   |
| 230166   | 2    | 2.807              | 71.3 | 4.812 | 122.22 | 0.562 | 14.27 | 0.500 | 12.7 |
| 230207   | 2    | 2.525              | 64.1 | 4.375 | 111.13 | 0.875 | 22.23 | 0.512 | 13   |
| 230208   | 1    | 1.569              | 39.9 | 2.875 | 73.03  | 0.938 | 23.83 | 0.315 | 8    |
| 230209   | 1    | 1.569              | 39.9 | 2.625 | 66.68  | 0.594 | 15.09 | 0.315 | 8    |
| 230363   | 1    | 1.765              | 44.8 | 2.875 | 73.03  | 0.594 | 15.09 | 0.315 | 8    |
| 230746   | 2    | 3.312              | 84.1 | 5.562 | 141.27 | 0.578 | 14.68 | 0.500 | 12.7 |
| 231000   | 1    | 1.569              | 39.9 | 2.437 | 61.9   | 0.641 | 16.28 | 0.276 | 7    |
| 231004   | 2    | 2.149              | 54.6 | 4     | 101.6  | 0.562 | 14.27 | 0.472 | 12   |
| 98-1473  | 3    | 1.747              | 44.4 | 2.5   | 63.5   | 0.5   | 12.7  | 0.315 | 8    |

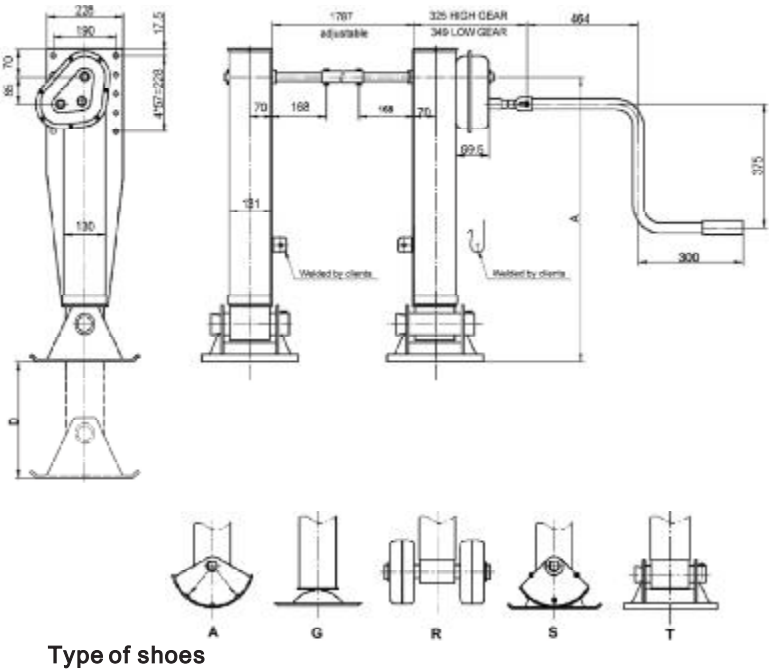
Landing Gears



Features:

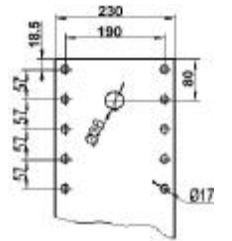
- Wider square sections of 130mm
- Full flange reinforcement standard mounting plate
- 480mm or 430mm lift
- Bigger sand shoes
- Gearbox with low temperature premium chassis lube rated for service from -30°C to 120°C
- Maintenance-free feature with grease packed jack screw
- Lower crank force
- Meets TTMA, AAR and GERMAN safety regulations for commercial vehicles

■ 28000 Series Landing Gears



| Standard Models |       |          |            |
|-----------------|-------|----------|------------|
| Part No.        | Shoes | Lift (D) | Height (A) |
| KML 280001A     | A     | 430      | 814        |
| KML 280001G     | G     | 430      | 770        |
| KML 280001R     | R     | 430      | 797        |
| KML 280001S     | S     | 430      | 822        |
| KML 280001T     | T     | 430      | 807        |

| Standard Models |       |          |            |
|-----------------|-------|----------|------------|
| Part No.        | Shoes | Lift (D) | Height (A) |
| KML 280002A     | A     | 480      | 875        |
| KML 280002G     | G     | 480      | 820        |
| KML 280002R     | R     | 480      | 857        |
| KML 280002S     | S     | 480      | 880        |
| KML 280002T     | T     | 480      | 857        |



Continental Back Plate



Universal (Cont +U.K)

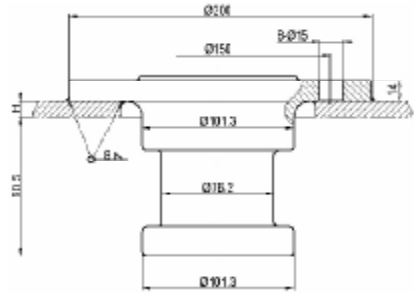




King Pins

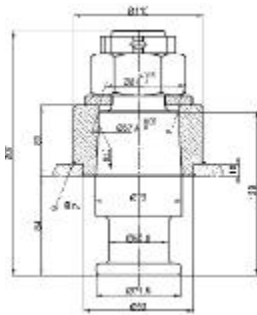


| KML-XA75(3'') bolt in kingpin |           |              |
|-------------------------------|-----------|--------------|
| Part No.                      | Size      | Skid plate H |
| KML-XA7508-01                 | 76.2(3'') | 8            |
| KML-XA7510-01                 | 76.2(3'') | 10           |
| KML-XA7512-01                 | 76.2(3'') | 12           |

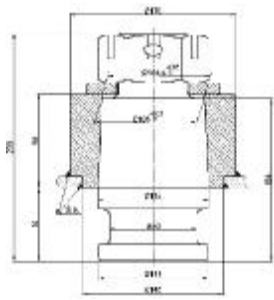


| KML -XB50 (2'') bolt in kingpin |         |              |
|---------------------------------|---------|--------------|
| Part No.                        | Size    | Skid plate H |
| KML-XB5010                      | 50(2'') | 10           |

| KML -XB90 (3.5'') bolt in kingpin |           |              |
|-----------------------------------|-----------|--------------|
| Part No.                          | Size      | Skid plate H |
| KML-XB9012                        | 90(3.5'') | 12           |



50#

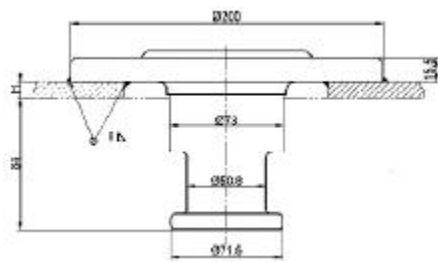


90#

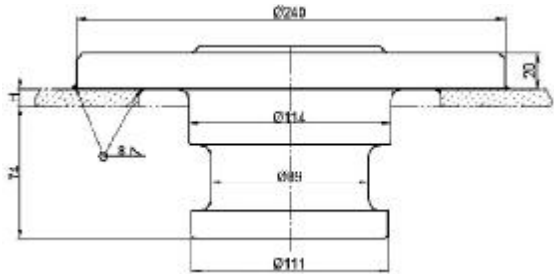


| KML -XC50 (2'') welded kingpin |         |              |
|--------------------------------|---------|--------------|
| Part No.                       | Size    | Skid plate H |
| KML -XC5008                    | 50(2'') | 8            |
| KML -XC5010                    | 50(2'') | 10           |
| KML -XC5012                    | 50(2'') | 12           |

| KML -XC90 (3.5'') welded kingpin |           |              |
|----------------------------------|-----------|--------------|
| Part No.                         | Size      | Skid plate H |
| KML -XC9010                      | 90(3.5'') | 10           |
| KML -XC9012                      | 90(3.5'') | 12           |



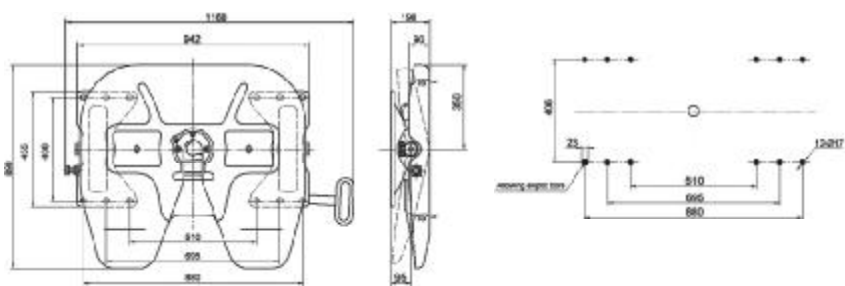
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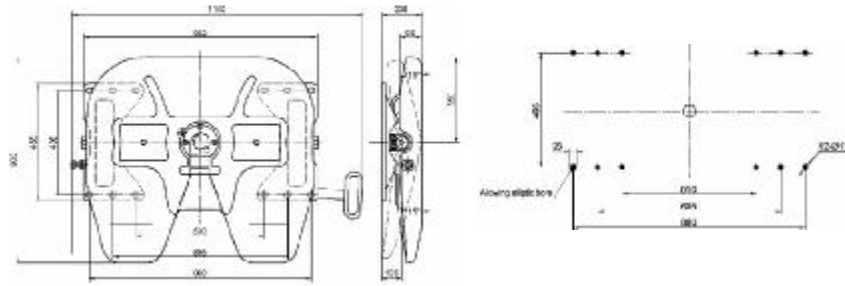
90#

Fifth Wheels

- ◆ Passed the quality inspection by China National Quality Supervision and Inspection Center.
- ◆ Single free degree and chock type hook joint. Simple in structure, but credible in force transmission, automatic combination, manual separation.
- ◆ Faceplate to be cut by semi-automatic multi-head cutting torch and then drawing, CO<sub>2</sub> gas protected weld, and assemble on special production line.
- ◆ 4 holes and 6 holes model come with fixing supporting plate.
- ◆ Repair kits are available.



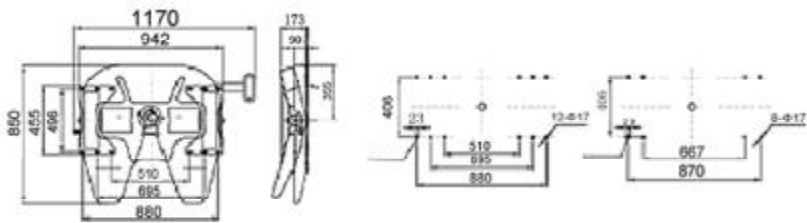
| Part No.      | Kingpin model | Special Capacity(KN) | Fifth wheel Height(mm) | Lengthways Angle(>°) | Levelangle(<°) | Thickness (mm) |
|---------------|---------------|----------------------|------------------------|----------------------|----------------|----------------|
| KML -QD90-19  | 90(3.5'')     | 196                  | 190                    | 15                   | 3              | 10             |
| KML -QD90-19B | 90(3.5'')     | 196                  | 190                    | 15                   | 3              | 8              |



| Part No.     | Kingpin model | Special Capacity(KN) | Fifth wheel Height(mm) | Lengthways Angle(>°) | Levelangle(<°) | Thickness (mm) |
|--------------|---------------|----------------------|------------------------|----------------------|----------------|----------------|
| KML -QD90-20 | 90(3.5'')     | 294                  | 200                    | 15                   | 3              | 10             |



Fifth Wheels



| Part No.        | Kingpin Model | Special Capacity(KN) | Fifth wheel Height(mm) | Lengthways Angle(>° ) | Level Angle(<° ) | Thickness (mm) | Note                          |
|-----------------|---------------|----------------------|------------------------|-----------------------|------------------|----------------|-------------------------------|
| KML -QD50-17.3  | 50(2")        | 196                  | 173                    | 15                    | 3                | 10             | Fixed rubbing circle          |
| KML -QD50-17.3B | 50(2")        | 196                  | 173                    | 15                    | 10               | 3              | Rubbing circle can be changed |



Repair Kit for Fifth Wheel  
Part No.: A1220

Axle Series

Identification Code:

KXXXXXS

"S" stands for ABS system

"Y" stands for round beam, "F" stands for square beam

"W" stands for outboard, "N" stands for inboard.

Stands for difference in specifications

Rated Loading Capacity

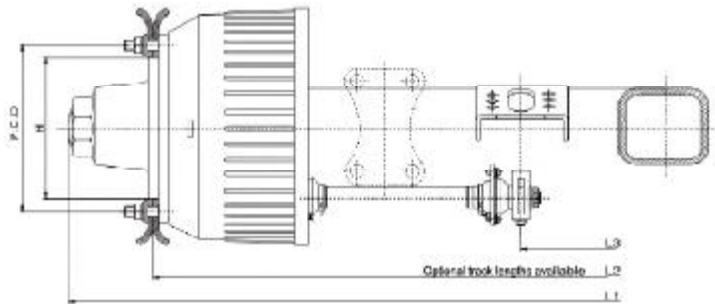
"K" stands for integral(onepiece) type

"FH" stands for German type

Features:

- Axle beam is made of high quality alloy steel. By integral heat rolling technique and special heat treatment, the axle beam has better performance on anti-fatigue and loading capacity, and the beam is more stable on capability.
- By special intermediate frequency quenching treatment, the shaft assembled to bearing is more wear-resistant and more anti-fatigue.
- High precision heavy duty bearing is good for service life of axle.
- High performance seals make sure no lubricating grease leaking, and it ensures steady performance of brake drum and safe driving.
- Brake assembly has good interchangeability, powerful return spring and non-asbestos brake lining make the performance of brake more stable and longer service life.
- Brand name lubricating grease XHP222 is very helpful to extend the service life of bearings and other spare parts.
- Adopting a German design on 12T & 14T, axle stud is forged by quality low alloy steel and the bearing neck is formed in taper shape. Such design can decrease the centralization of stress and increase the strength of anti-fatigue.
- Special equipment of tire bolt pretension insures the pressure applied on each bolt is even.

Inboard Drum FH Series

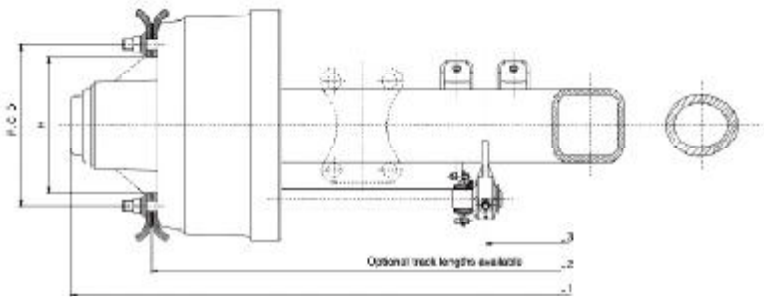
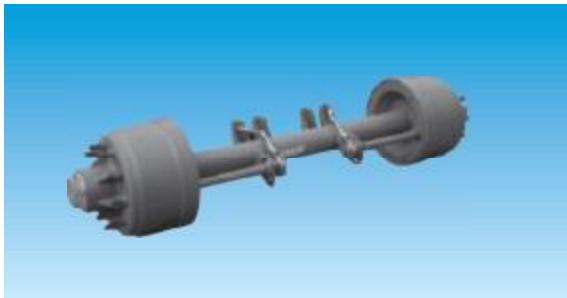


| Axle Type | Max. capacity | Total Length | Track | Centre Distance of Brake Chamber | Axle Beam | S-Cam & Brake    | Wheel Fixing   |       |      | Recommend-ed Wheel | Bearing        |
|-----------|---------------|--------------|-------|----------------------------------|-----------|------------------|----------------|-------|------|--------------------|----------------|
|           | 105km/h       | L1           | L2    | L3                               |           | Series Φ x Width | stud           | P.C.D | H    |                    |                |
|           | kg            | mm           | mm    | mm                               |           | mm               |                | mm    | mm   |                    |                |
| FH1201NF  | 12,000        | 2144         | 1840  | 422                              | □150      | S Φ420x180       | 10-M22x1.5 ISO | Φ335  | Φ281 | 7.50V-20           | 33213<br>33118 |
| FH1203NF  | 12,000        | 2158         | 1840  | 375                              | □150      | S Φ420x200       | 10-M22x1.5 ISO | Φ335  | Φ281 | 7.50V-20           | 33213<br>33118 |
| FH1401NF  | 14,000        | 2198         | 1840  | 355                              | □150      | S Φ420x200       | 10-M22x1.5 ISO | Φ335  | Φ281 | 8.00V-20           | 33215<br>32219 |
| FH1602NF  | 16,000        | 2272         | 1850  | 254                              | □150      | S Φ420x200       | 10-M22x1.5 ISO | Φ335  | Φ281 | 8.00V-20           | 33215<br>32219 |



Axle Series

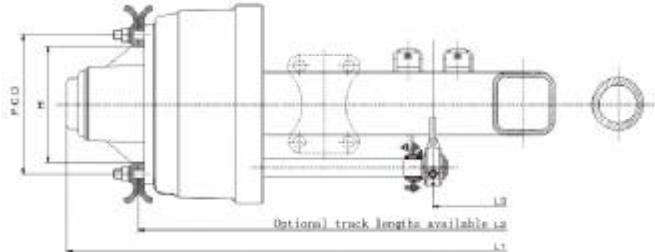
■ Outboard Drum K Series



| Axle Type | Max. capacity | Total Length | Track | Centre Distance of Brake Chamber | Axle Beam | S-Cam& Brake    | Wheel Fixing     |         |      | Recommend-<br>ed Wheel | Bearing        |
|-----------|---------------|--------------|-------|----------------------------------|-----------|-----------------|------------------|---------|------|------------------------|----------------|
|           | 105km/h       | L1           | L2    | L3                               |           | SeriesΦ x Width | stud             | P.C.D   | H    |                        |                |
|           | kg            | mm           | mm    | mm                               |           | mm              |                  | mm      | mm   |                        |                |
| K1101W2   | 11,000        | 2150         | 1850  | 250                              | Φ127      | Φ310×190        | 10-M22x1.5 ISO   | Φ225    | Φ176 | 6.75x17.5              | HM518445/10    |
| FH1206WF  | 12,000        | 2232         | 1920  | 240                              | □120      | Φ420×180        | 10-M22x1.5 ISO   | Φ335    | Φ281 | 7.50V-20               | HM518445/10    |
| K1301WF   | 13,000        | 2170         | 1840  | 390                              | □150      | Φ420×180        | 8-M20x1.5 JIS    | Φ285    | Φ220 | 7.50V-20               | HM518445/10    |
| K1302WY   | 13,000        | 2178         | 1850  | 400                              | Φ127      | Φ420×180        | 10-M22x1.5 ISO   | Φ285.75 | Φ220 | 7.50V-20               | HM518445/10    |
| K1302WY2  | 13,000        | 2143         | 1817  | 356                              | Φ127      | Φ420×180        | 10-M22x1.5 ISO   | Φ285.75 | Φ220 | 7.50V-20               | HM518445/10    |
| K1302WY3  | 13,000        | 2298         | 1970  | 520                              | Φ127      | Φ420×180        | 10-M22x1.5 ISO   | Φ285.75 | Φ220 | 7.50V-20               | HM518445/10    |
| K1302WYd  | 13,000        | 2185         | 1850  | 250                              | Φ127      | Φ420×180        | 10-M22x1.5 ISO   | Φ285.75 | Φ220 | 7.50V-20               | HM518445/10    |
| K1303WF   | 13,000        | 2170         | 1840  | 390                              | □150      | Φ420×180        | 10-M22x1.5 ISO   | Φ335    | Φ281 | 7.50V-20               | HM518445/10    |
| K1305WY   | 13,000        | 2168         | 1840  | 390                              | Φ127      | Φ420×180        | 10-M22x1.5 ISO   | Φ335    | Φ281 | 7.50V-20               | HM518445/10    |
| K1305WY1  | 13,000        | 2143         | 1817  | 513                              | Φ127      | Φ420×180        | 10-M22x1.5 ISO   | Φ335    | Φ281 | 7.50V-20               | HM518445/10    |
| K1305WFa  | 13,000        | 2856         | 2524  | 670                              | □150      | Φ420×180        | 10- 7/8 " x11BSF | Φ335    | Φ281 | 7.50V-20               | HM518445/10    |
| K1305WFb  | 13,000        | 2176         | 1840  | 394.2                            | □150      | Φ420×180        | 10- 7/8 " x11BSF | Φ335    | Φ281 | 7.50V-20               | HM518445/10    |
| K1309WF   | 13,000        | 2166         | 1850  | 400                              | □150      | Φ420×180        | 8-M20x1.5 JIS    | Φ285    | Φ220 | 7.50V-20               | 32217<br>32218 |
| K1316WF   | 13,000        | 2172         | 1840  | 390                              | □150      | Φ420×180        | 10-M22x1.5 ISO   | Φ335    | Φ281 | 7.50V-20               | 32217<br>32218 |

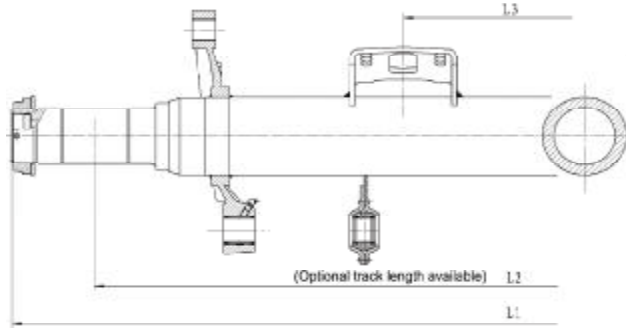
Axle Series

■ Inboard Drum FH Series



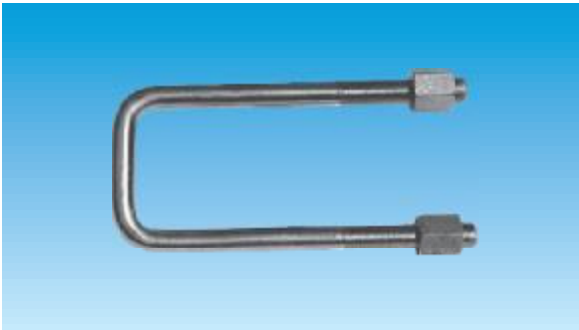
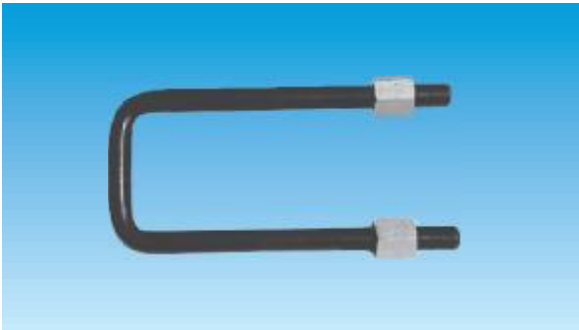
| Axle Type | Max. Capacity | Total Length | Track  | Centre Distance of Brake Chamber | Axle Beam | S-Cam& Brake    | Wheel Fixing   |       |      | Recommend-<br>ed Wheel | Bearing                    |
|-----------|---------------|--------------|--------|----------------------------------|-----------|-----------------|----------------|-------|------|------------------------|----------------------------|
|           | 105km/h       | L1           | L2     | L3                               |           | SeriesΦ x Width | stud           | P.C.D | H    |                        |                            |
|           | kg            | mm           | mm     | mm                               |           | mm              |                | mm    | mm   |                        |                            |
| FH0801NY  | 8,000         | 2132         | 1850   | 429                              | Φ127      | Φ420x150        | 10-M22x1.5 ISO | Φ335  | Φ281 |                        | 33213<br>HM518445/10       |
| K1101NY   | 11,000        | 2395         | 2100   | 670                              | Φ127      | Φ310x190        | 10-M22x1.5 ISO | Φ225  | Φ176 | 6.75x17.5              | HM218248/10                |
| K1101NY4  | 11,000        | 2275         | 1980   | 670                              | Φ127      | Φ310x190        | 10-M22x1.5 ISO | Φ225  | Φ176 | 6.75x17.5              | HM218248/10                |
| K1302NYa  | 13,000        | 2236.5       | 1968.5 | 520                              | Φ127      | Φ420x180        |                |       |      |                        |                            |
| K1304NF   | 13,000        | 2178         | 1840   | 390                              | □150      | Φ420x180        | 10-M22x1.5 ISO | Φ335  | Φ281 | 7.50V-20               | HM518445/10                |
| K1304NF1  | 13,000        | 2758         | 2420   | 970                              | □150      | Φ420x180        | 10-M22x1.5 ISO | Φ335  | Φ281 | 7.50V-20               | HM518445/10                |
| K1304NF2  | 13,000        | 2378         | 2040   | 590                              | □150      | Φ420x180        | 10-M22x1.5 ISO | Φ335  | Φ281 | 7.50V-20               | HM518445/10                |
| FH1501NF  | 15,000        | 2190         | 1850   | 400                              | □150      | Φ420x180        | 10-M22x1.5 ISO | Φ335  | Φ281 | 8.00V-20               | HM518445/10<br>HM220149/10 |
| FH1601NF  | 16,000        | 2190         | 1850   | 350                              | □150      | Φ420x220        | 10-M22x1.5 ISO | Φ335  | Φ281 | 8.00V-20               | HM518445/10<br>HM220149/10 |
| K2001NF   | 20,000        | 2240         | 1850   | 350                              | □150      | Φ420x220        | 10-M22x1.5 ISO | Φ335  | Φ281 | 8.00V-20               | 32222<br>HM518445/10       |

■ Other Series



| Axle Type      | Max. Capacity<br>105km/h | Total Length<br>L1 | Track<br>L2 | Centre Distance of<br>Brake Chamber (L3) | Axle Beam | Weight | Bearing     |
|----------------|--------------------------|--------------------|-------------|------------------------------------------|-----------|--------|-------------|
| AXLE1400       | 13800kg                  | 2254mm             | 1975.4mm    | 440mm                                    | Φ 127     | 135kg  | HM518445/10 |
| AXLE1400-71.5" | 13800kg                  | 2096mm             | 1817.0mm    | 282mm                                    | Φ 127     | 114kg  | HM518445/10 |

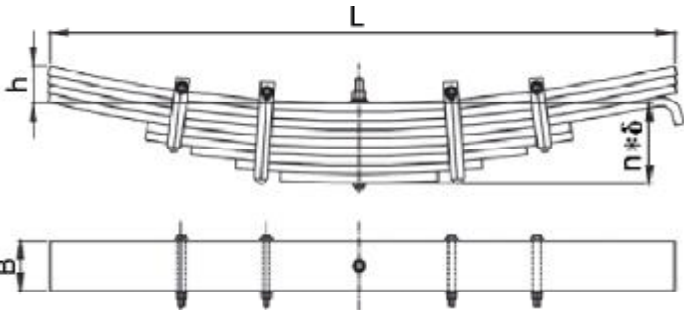
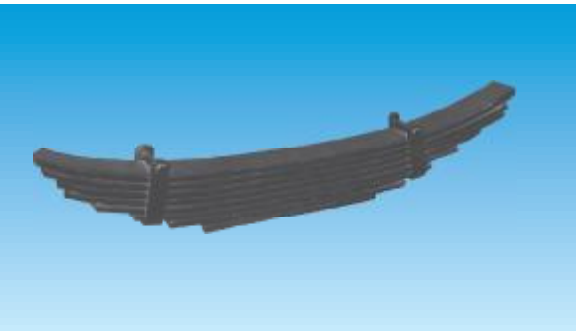
U- Bolts



Suspension Pins



Multileaf Springs



| Part No.  | Length | Width | h  | n | δ  | Cross Ref. |
|-----------|--------|-------|----|---|----|------------|
| KML-BH001 | 1180   | 75    | 80 | 8 | 16 | IVRO-001-R |
| KML-BH002 | 1090   | 75    | 80 | 9 | 13 | 61-029-R   |