

# PRODUCT CATALOGUE

2023 / 2024



Cigüeñal · Коленвал · Crankshaft  
Virabrequim · Kurbelwelle



**PRECISION  
ENGINEERING &  
POWERING THE FUTURE  
SINCE 1989**



We have been accredited with ISO 9001 certifications for more than a decade for continuous manufacturing excellence.

We have been a IATF 16949:2016 accredited company for almost a decade for offering Precision Engineering Solutions of the Highest Standards to our customers.



We have been accredited with the ISO 14001:2015 (Environmental Management System) certification in the year 2020 owing to continuous effort & commitment to an Environmental Conscious Culture at the company. We have targeted to be a Carbon Neutral company by the year 2030 & the steps towards that goal have been initiated from 2020. A large emphasis has been put on Wind & Solar Energy amongst other renewable sources. A Blueprint has also been laid out for our very own Solar Farm to fulfill the needs of our Manufacturing Plants.

We take our management systems for occupational health and safety (OH&S) very seriously at our company. The members of our team are truly our biggest assets & to inculcate a culture for their Health & Safety is our biggest priority. We were accredited with the said certification in 2020 which is a proof of our strong emphasis on the wellbeing every member of the Balu Family proving a very safe & healthy working culture & environment.





## WHO WE ARE

We have become a name symbolizing quality & excellence in the field of crankshaft manufacturing & precision machining since 1989

Our in-house capability & state of the art automotive engineering enables us to manufacture any type of crankshaft in a large range of applications namely **Agriculture : Tractors, Harvesters | Heavy Duty: Trucks, Buses, Trailers | Automotive | Generators: Industrial, Standby, Home backup, Portable | Oil & Gas : Pumps & Compressors | Refrigeration : Compressor | Industrial | Off Road & On Road : Motorcycles, Carts, Jet Skis | High Performance : Racing Series | Locomotive | Marine | Aerospace.**





We have developed a very extensive range of forged crankshafts for leading Original Equipment Manufacturers within India and the rest of the world & a strong aftermarket presence in over 80 countries. The ISO/TS16949:2009 accreditation of our units in 2012 by TUV Nord Cert GmbH added to our competitive edge making Balu one of the very few companies to have this accreditation in the field of manufacturing crankshafts.

Balu is now an avant-garde manufacturer of fully finished and semi-finished forged crankshafts and other Forged Components. Our incremental innovation & continuous strive to improve has awarded us by making us the only company to have the capability to manufacture components conforming to the New Emission Regulations & the New Energy Vehicles.



The manufacturing of the crankshafts is done with the latest equipments, instruments, technologies and highly skilled workforce which provide exceptional control over the entire process of manufacturing the crankshafts & strict adherence to Six Sigma & 8D disciplines. We have become the supplier of choice of major OEM's not only in India but around the world due to our technological advantage and the highest standards of quality in the industry. All the crankshafts are manufactured to exact O.E specifications and on CNC lines to ensure precision at every stage.

We have continually strived to broaden our manufacturing base and with the acquisition of the state of the art machining lines from Poland in the year 2006 and as recently as 2011 from France, our capability has expanded to produce crankshafts up to 2.5 meters in length and installed capacity has increased to 30,000 fully finished crankshafts per month.

# CORE COMPETENCY

Unifying the Capability  
**of the Organization**





**The Core Competencies which distinguish us from our competitors & the pillars which have ensured the building of a strong brand worldwide are as below:**

Complete CNC manufacturing capability

Over three decades of experience in Precision Engineering

Diversified Product Portfolio & Applications

Supplier of choice for OEMs

State of the Art Manufacturing set up

In-house tool room

In-house Metallurgical lab

Dedicated R&D Facility

Strong Emphasis on New Energy Vehicles & Components

All machining & forging operations in-house

Well established brand worldwide

Fully Integrated Plant providing full supply capability to its Geographically dispersed customers from concept to Product design, engineering, manufacturing, testing & validations, Highly skilled work force with a technologically advanced plant

In-house capability to manufacture a product from 2 Kgs to 500 Kgs & upto 3 meters long

Supply base comprising over 25 OEMs both in India & overseas

Aftermarket customer & distributor base in over 86 countries





Billet Cutting



Forging Hammer (16T)















Raw Material

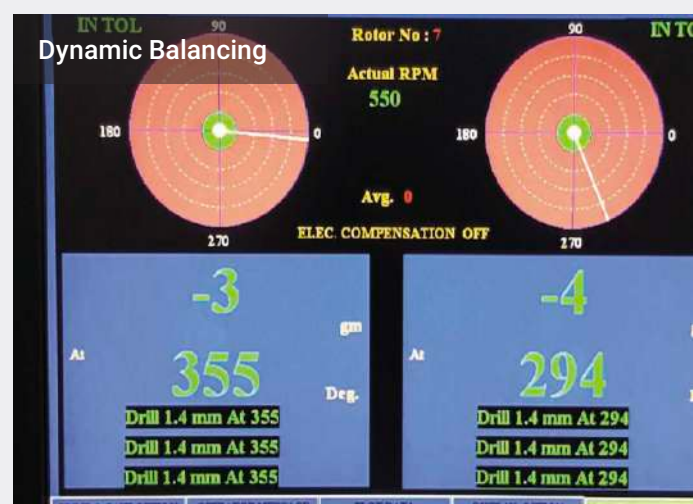
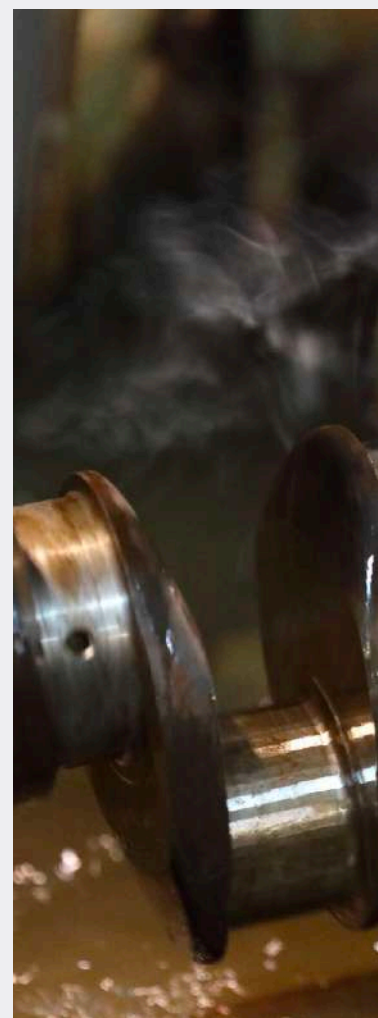


Crack Testing



Grinding









Heat Treatment



Heat Treatment



Heat Treatment



Milling & Turning



Milling & Turning









Finish Machining Overview



Post Grinding

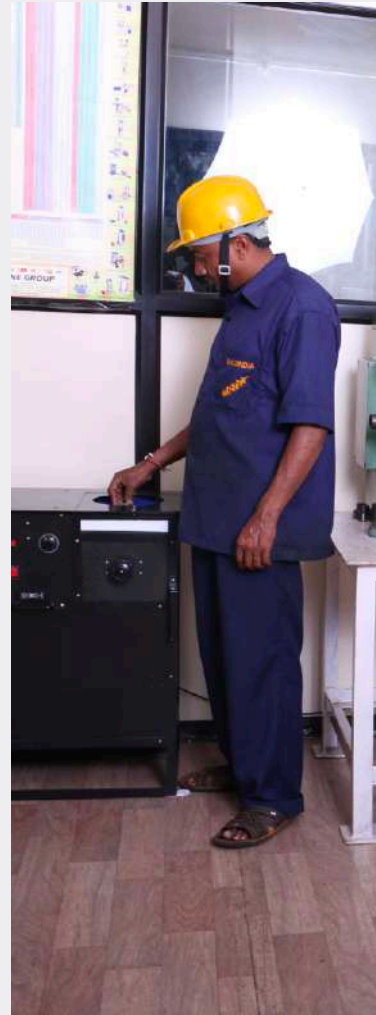


Post Grinding





Quality Control - Inspection



Quality Control - In-Process Inspection



CBN TWIN WHEEL GRINDER



Super Finishing





Quality Control - Metallurgical Lab



In-House Tool Room



Splines/Serration (Deep Rolling Process)



CBN GRINDER



# CUTTING EDGE TECHNOLOGY UNMATCHED STANDARDS OF QUALITY



CNC JOURNAL MILLING



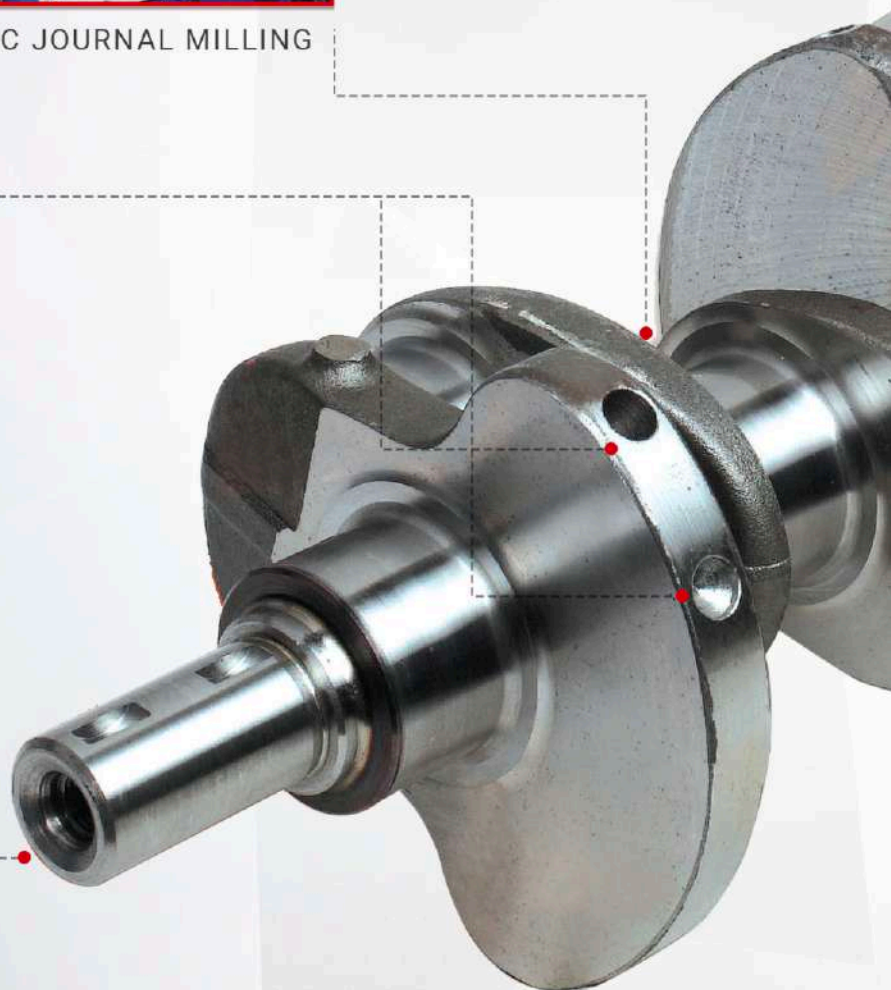
CNC GRINDING



DYNAMIC BALANCING



MASS CENTERING





## INDUCTION HARDENING



POST GRINDING OPERATIONS  
FLANGE HOLE GEAR END  
& TAPPING

## SUPER FINISHING



HELLER PIN MILLING



OIL HOLE DRILLING

STATE OF THE ART  
**AUTO CNC LINES**

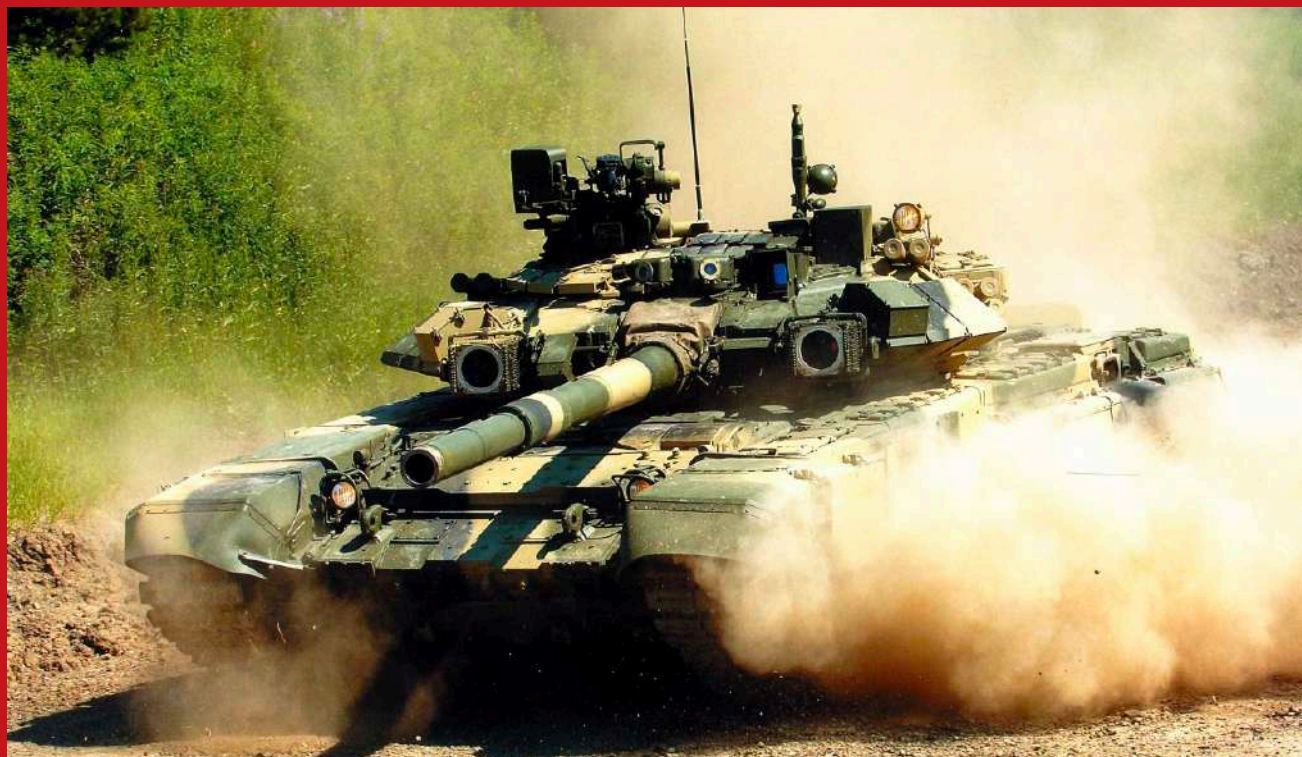
## Defence project

The Indian Government has given a great impetus to domestic factories to take part in Defense Production. A large part of the procurement program has also moved to the Private Sector with a considerable investment made by the Indian Industry to support the Indian Defense Production.

A large part of the Capital Investment for the next 10 years is towards Defense Production with also key Joint Ventures/Technology Partnerships in the pipeline. The key areas planned in the coming years are Artillery, Undercarriage parts for Armored Vehicles, Weapons & Ammunition for Light & Heavy Infantry and Forged & Machined Components for the Engine Division.

The Government has also in 2020 barred a majority of Import Procurement by the Defense Companies giving a further rise to Home Grown Companies actively participating in the Indian Defense Sector. There has been a strong focus at Balu Forge towards readiness for the needs of India as well as Global Defense Organizations. Balu Forge is already an approved vendor to a majority of the 41 Ordnance Factories in India.

Balu Forge has also secured & successfully supplied for over 5 years to Defense Forces in two prominent European Countries and executed supply as a single source to these nations. There will continue to be a strong focus on further expanding the reach & customer base amongst more Defense Organisations globally.



Crank Shaft



Road Wheel Arm



Crank 690



Track Link



Track Guide



Shoe



Clamp



Flange



New Energy / Mobility Solutions

At Balu we endeavor to be ahead of the curve in the New Energy Vehicle Space with a clear emphasis & focus on Development of Efficient & Innovative Solutions for the New Energy Vehicle Sector. We also have a Dedicated vertical, Naya with a clear focus on the Developments of the New Mobility World. The New Era has moved from Conventional Mobility Solutions to a range of Potential Drivers for the Future may it be Hybrid/ BEV/ Hydrogen Powered Vehicles. It is imperative for an incumbent to have a well-defined strategy for the way ahead where the changing landscape will offer a large number of Opportunities.

In one of the oldest Industries in the world, the laggards are the Automotive Incumbents & due to the large Capex already incurred in the Conventional Automotive space, it is generally far more difficult to shift to the New Era that is in front of us.



We see this tipping point as the single largest opportunity available for our company where we have the right balance between the Conventional Automotive & the New Era which is in front of us. It is not only imperative for companies to stay relevant but also shift their focus from their Conventional Cash Cows to Large Growth & future stars.

The Larger drivers & key pillars are Light Weight & Efficient Solutions for the New Vehicle Architectures. Being a Company with decades of experience in Precision Machining & Metal Forming, we have used this to our advantage to offer a range of products for the New Energy Vehicles.

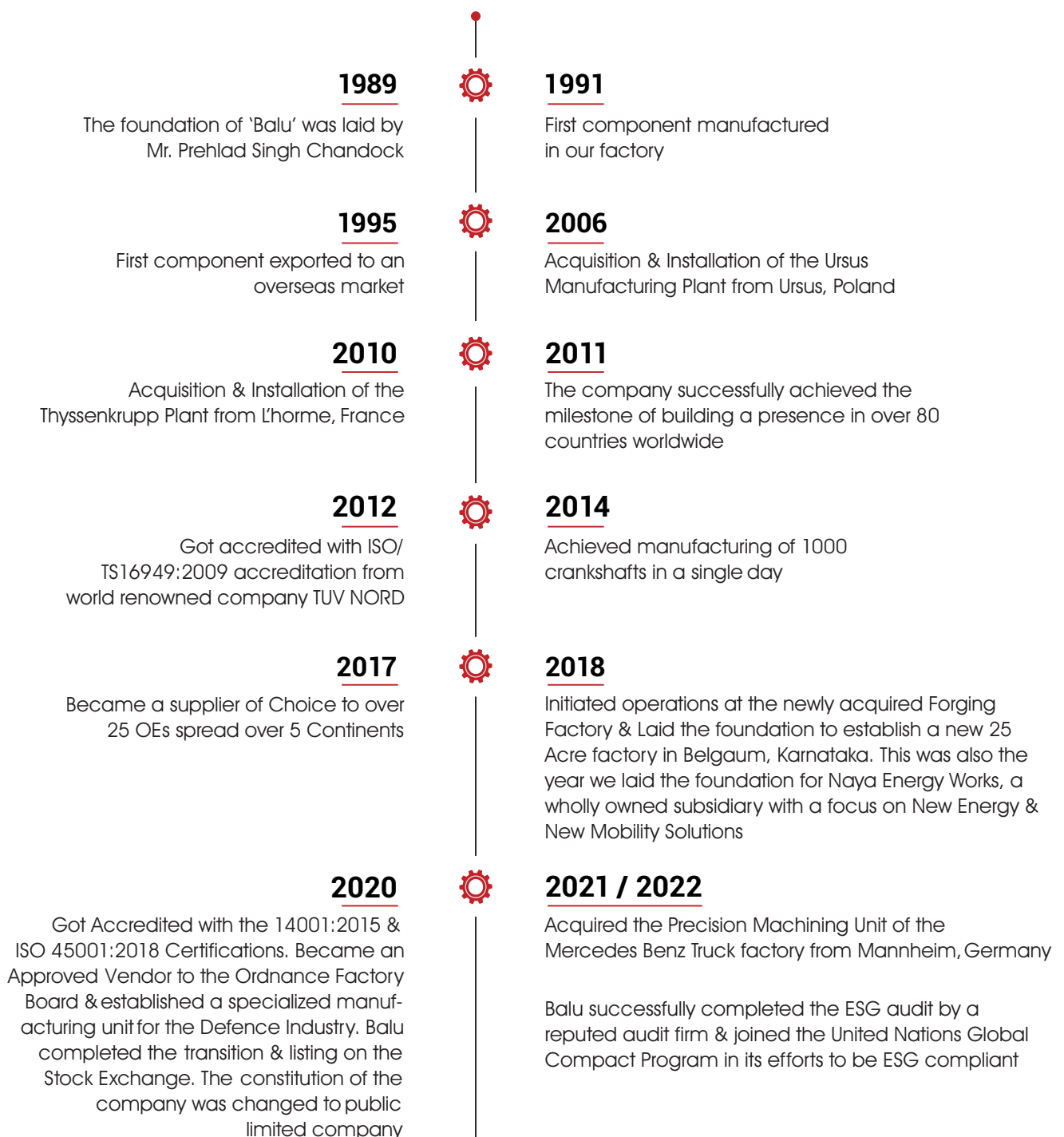
Product Range: Our Solution Ranges from a range from products in the through the Space of BEVs/PHEVs/Hydrogen Vehicles. The process involved conventional automotive excellence partnered with the incremental innovation to offer minimum weight, maximum load-bearing capacity, high reliability & overall cost-effectiveness.

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |
| <b>Rotor Carrier</b><br>Electric & Hybrid Vehicles                                  | <b>Main Drive Shafts</b><br>Electric Vehicles                                       | <b>Toothed Shaft</b><br>Electric Vehicles                                           | <b>Eccentric Shafts</b>                                                             | <b>Shaft</b><br>Hybrid Vehicles                                                     | <b>Transmission Shafts</b><br>Electric Vehicles                                      | <b>Drive Shafts</b><br>Electric Vehicles                                              | <b>Rotor Shafts</b><br>Electric Vehicles                                              |

## History

### How We Started Balu

We had a humble beginning in the year 1989 in Belgaum, India. The initial set up was for manufacturing of crankshafts for single cylinder & two cylinder with a limited workforce. Within the last decade the company is supplying to over 25 OEM companies and the aftermarket presence has since expanded to over 80 countries. In 1989, we were the first company in India to mass - produce Crankshafts suitable for Tractor, Trucks and Passenger car applications. Two decades later we have gained an excellent reputation in the world market with over 4 manufacturing facilities. The modern era of Balu upholds the reputation of durability by manufacturing Crankshafts only out of Forgings & precision components conforming to the New Emission Regulations & Mobility / Energy Space.





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## ALLIS CHAMBERS

**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS   |
|----------|-------------------|----------------|-----------|-------------------------|
| AC01     | 70280077          |                | 3 CYL     | ALLIS CHAMBERS 160      |
| AC02     | 71005059          |                | 4 CYL     | ALLIS CHAMBERS 170, 175 |

## ARMSTRONG

**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                             |
|----------|-------------------|----------------|-----------|---------------------------------------------------|
| ARM01    | SL01 11 301 C     |                | 2 CYL     | ARMSTRONG SIDDELEY<br>WITHOUT COUNTER WEIGHT 20HP |

## CASE / INTERNATIONAL HARVESTER

**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                        | MOTOR & ENGINE                                                      | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                  |
|----------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IH01     | 3110995R91 / 05700AB / 247-5143 / 751303/<br>751303R2 / 751303R3 / 751303R5                              | D154, 154 C.I.D. 2.5 L<br>D165, 165 C.I.D. 2.7 L<br>D171, 171 C.I.D | 4 CYL     | B-275 D-154 BDI 54, 144, 364, 384, 444 Tractors<br>2424, S, SC, SE Tractors,<br>780, 880, 885, 4600 Tractors                                                                                                                                                                                                                                           |
| IH02     | 3144626 / 3132752R3 / 2744406R1 /<br>182752R2 01 5C1 / 015C11089 /<br>247-5170 / 37CR4 / 6719N / IH625R2 | D-239, DT239<br>239 C.I.D. 3.9 L                                    | 4 CYL     | WITH BALANCER GEAR<br>544 / 684 / 724 / 744 / 784 / D239 574, 674, 685<br>Backhoe685 Tractor, TD7, TD7E, TD8C Crawler<br>Tractors, TD8 Dozer                                                                                                                                                                                                           |
| IH03     | 3228376R91 / 218528R2 / 218528R3 /<br>218528R1 / 528R2-79 / A09-7292 / 247-513                           | D - 268, D268, DT268<br>268 C.I.D, 4.4 L                            | 4 CYL     | WITH BALANCER<br>51 OB Loader Neuss Diesel                                                                                                                                                                                                                                                                                                             |
| IH04     | 3132968R91 / 1329196CI                                                                                   | DT-206                                                              | 4 CYL     | WITH BALANCER GEAR<br>15M, 654, 554, 584, 624                                                                                                                                                                                                                                                                                                          |
| IH05     | 3136036R95 / 3059514R1 / 6791N                                                                           | D - 358 / DT 358<br>5.8 L                                           | 6 CYL     | LOADER H 65C<br>WITH COUNTER WEIGHT<br>826, 886, 955XC, 1420, 28263088, 3288 Wheel<br>Tractors, Neuss Diesel                                                                                                                                                                                                                                           |
| IH06     | J908031 / J918323                                                                                        | 4 -390, 4T-390<br>239 C.I.D                                         | 4 CYL     |                                                                                                                                                                                                                                                                                                                                                        |
| IH07     | 3907804 / 3929037 / 3907604 / 3908032                                                                    | 6 - 590, 359 C.I.D                                                  | 6 CYL     |                                                                                                                                                                                                                                                                                                                                                        |
| IH08     |                                                                                                          |                                                                     | 4 CYL     | AVJ70 (Agricultural Tractor - AVJ Series)<br>JX75 (Agricultural Tractor - JX Series)<br>JX80 (Agricultural Tractor - JX Series)<br>JX85 (Agricultural Tractor - JX Series)<br>JX90 (Agricultural Tractor - JX Series)<br>JX95 (Agricultural Tractor - JX Series)<br>VJ70 (Agricultural Tractor - VJ Series)<br>VJ80 (Agricultural Tractor - VJ Series) |



## CASE / INTERNATIONAL HARVESTER

**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                   |
|----------|-------------------|----------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| IHO9     |                   |                | 3 CYL     | JX1060CJX55<br>(Agricultural Tractor - JX Series) JX60<br>(Agricultural Tractor - JX Series) JX65<br>(Agricultural Tractor - JX Series) |
| IHO 10   |                   |                | 4 CYL     | CX100, CX70, CX80, CX90, MX 100 C,<br>MX80 C, MX90 C                                                                                    |

## CATERPILLAR

**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                                                                                                                                                                              | MOTOR & ENGINE                         | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAT01    | 1W9771, 4N1112, 4N0012, 4N111X, 6N8290,<br>1W0400, 4N0111, 4N1111, 7N5137, OR1206,<br>OR1209, OR5024, OR5164, OR5474, OR5560,<br>1W0400, 247-5130, 4N40012, 5430N                                                                                              | 3204<br>5.2 L                          | 4 CYL     | D3, 910, 916, 926, 926E, 931 Loader<br>Wheel Loaders: IT 12, IT 14, IT 18, IT 28<br>WITHOUT GEAR                                                                                                                                                                                                                                                                                               |
| CAT02    | 4N7692, 2P6217, 4N7694, 9S771, 2W7960,<br>2Y4504, 5S5252, Or1212, 2P7850, OR1214,<br>2Y4515, 3Y1613, 2P1491, OR5021, 5C3834V,<br>4N769, 2P1686, OR5166, 5S3835, OR5167,<br>2P6213, OR5169, 5S5251, 4N7695, 2P6214,<br>OR5170, 247-5218,                        | 3304<br>7.0 L                          | 4 CYL     | 152.40 mm Earthmoving machinery<br>112F, 120G, 130G Motor Grader, 215,<br>225 Excavator, 518 Skidder, 920, 930, 955L, 963<br>Loader, 922B, 944,950 Wheel Loader, 941, 941 B,<br>951, 951B Traxcavator, 951C, 955K, 955L<br>Traxcavator, Crawler Tractor, Industrial,<br>Marine Truck                                                                                                           |
| CAT03    | 4N7693, 1P1391, 4N7696, 5C3837, 2W7458,<br>1W8356, 4P9857, 5S5870, 4P7827, 2P2824,<br>2Y4517, 5S5871, 3348389, 2P2842, 4P7458,<br>5Y1546, 4P7958, 2P6219, 1P1390, 6N8079,<br>5C3836, 2P6221, 8M4502, 9S3057, 2W7458,<br>2Y4507, 9S2270, Sp6222, 2Y5206, OR5018 | 3306<br>B, C, DI, SP,<br>1-6<br>10.5 L | 6 CYL     | 152.40mm<br>Earthmoving machinery<br>D6 / 966 C / 120 L / 140 L / D 60 SR / D6 AND / D 60 DD /<br>966 R / D 60 OS / 572F, 572G<br>Pipe Layers, 621R, 627, 627B, 814 Wheel Tractor, 814,<br>815, 816 Compactors, 966, 966C, 977L, 980, 980B<br>Wheel Loaders, 977K, 977L Traxcavators,<br>D5, D5B, D6, D6C, D6D, D7, D7F, D7G Crawler Tractor,<br>627, 627B, 637, 637B, 637D, 639, 639D Scraper |
| CAT04    | 2327400, 2337009,<br>3642829, 4P9948,<br>1397018, 7C8214,<br>071Z724149, ZI307I,<br>2218057, 7C3184,<br>3131-5666                                                                                                                                              | 3054 / 3056<br>4.0 L                   | 4 CYL     | 127.00 mm<br>Backhoe 416<br>AGCO / MASSEY: MF 5300 / 5310 tractors<br>416, 416C Backhoe,<br>Cat Compactor: 426B, Cb534, CB534B,<br>CB534C, Cb545<br>Forklifts: TH62, TH63, TH82, TH83, TH103                                                                                                                                                                                                   |
| CAT05    | 4P9121, 2219360                                                                                                                                                                                                                                                | C15/3406E                              | 6 CYL     |                                                                                                                                                                                                                                                                                                                                                                                                |
| CAT05A   | 3370201                                                                                                                                                                                                                                                        | C15 ACERT                              | 6 CYL     |                                                                                                                                                                                                                                                                                                                                                                                                |

**CUMMINS**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                         | MOTOR & ENGINE                | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|-------------------------------------------------------------------------------------------|-------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CU01     | 3908032 / 3929037 / 3907804 /<br>3915259 / 3903828 / 3905619 /<br>3907604                 | 6B / BT / BTA<br>5.9L         | 6 CYL     | Aspirated / Turbo / Turbointercooler<br>6B / BT / BTAC STROKE 120.0 mm<br>Agco - Massey: Combine Harvester MF 3640<br>Case: Motor Graders 845 / 888 CK / W 20E<br>Fiat Allis: Track - Type Tractors FD 130 - 130 -<br>Excavator Loader FX 2150 - Grader FG 140<br>Ford: Trucks F 12000 / F 14000 / F 16000 - CARGO<br>1215 / 1317 / 1415 / 1417 / 1421 / 1517 / 1521 / 1617 /<br>1621 / 1717 / 1721 / 2421<br>Komatsu: Machines for construction GDS 23 /<br>PC 150.5<br>Metso Dynapac: CA compactor 25 T<br>Muller: TM Roller 14 / T 522 / VAP 70P / 701<br>Crandon: Trucks off road RK 410 / 411 / 610 /<br>614H / 6812H<br>Volkswagen: L Trucks 12,170 / 13,190 / 14,170 /<br>15,190 / 16,170 / 16,200 / 17,210 / 23,210<br>Volvo: grader FG 140                                                                                                                                                                                                                           |
| CU02     | 3918986, 3910968,<br>3914584, 3917443,<br>3917320, 3904363,<br>3905625, 390562,<br>728533 | 6C / 6CT<br>C SERIES<br>8.3L  | 6 CYL     | STROKE 135mm<br>Aspirated engine / turbo / turbo - intercooler<br>AGCO- MASSEY : Tractors MF 6350 / MF 6360 - Harvesters<br>MF34 / Mf38<br>CASE: Combine Harvester F 2388 - Loaders W 36B /<br>821B / 9.250 - Tractors MX 88 / M 270<br>FIAT ALLIS: Tractors FD 140 / FW 200 / GS 160 / 170 / 14C<br>AD / FG 65 / 95 / 105B / FR 140 / 160 - Graders Loaders<br>160 -200 FG 160 -170 - 200<br>FORD: Trucks CARGO 1422 / 1622 / 1630 / 1722 /<br>2422 / 2425 / 2622 / 2630 / 2631 / 3222 / 4031<br>KOMATSU: Machines for construction WA 320 / 629 GB / D<br>60 / PC 150 - 153 - 155 -200 / GD 523 - 525 - 623 / 5D 60<br>METSO DYNAPAC: Rollers<br>Muller : TM Roller 17 / 26 / TC 18<br>NEW HOLLAND: CS harvester 660<br>RANDON: Trucks off road RK 628<br>VOLKSWAGEN: Trucks 14,210 / 14,220 / 16,210 / 16,220 /<br>16,300 / 17,220 / 17,300 / 17,310 / 23,220 / 24,250 /<br>26,220 / 26,260 / 26,300 / 35,200 / 40,300 - Chassis w /<br>bus 18.310<br>VOLVO: Grader VP 720 |
| CU04     | 3908031, 3907803<br>9P902148, 3903827<br>3863279, 3903830<br>3905617, 3929036<br>3863276  | 4 BT / 4B<br>B SERIES<br>3.9L | 4 CYL     | STROKE 120mm<br>Aspirated engine / turbo / turbo intercooler<br>FIAT ALLIS: 88.4 Backhoes FB / FB 100.4<br>FORD: Cargo Trucks 814 / 815-Vans F 4000 /<br>F 1000 / F 350<br>METSO DYNAPAC: CA compactors 50 / CC 422<br>132 / 221 CP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



**CUMMINS**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                    | MOTOR & ENGINE     | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                 |
|----------|----------------------------------------------------------------------|--------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CU05     | 2830476 / 3942441 / 3929627 / 4896766<br>2830477 / 2830476 / 4981642 | QSB / ISBE<br>5.9L | 6 CYL     | STROKE 120.0 mm Electric engine<br>For : Trucks : C1 722e / C2422e / C2622e / C2628e<br>Volkswagen : Trucks : 17250e / 24250e<br>Iveco : Eurocargotector 170E 22 / 170 E 25 / E 25 240 /<br>170 E 22 / E 25 260 / 230 22 / 230 E E 24 |
| CU06     | 4925762 / 3681911 / 3608889<br>4923646 / 4330732                     | IS<br>QSX15<br>X15 | 6 CYL     |                                                                                                                                                                                                                                       |
| CU07     | 3064291                                                              | N14                | 6 CYL     |                                                                                                                                                                                                                                       |

**DAF**
**FORGED**

| REF. NO. | ORIGINAL PART NO.              | MOTOR & ENGINE                 | CYLINDERS | DESCRIPTION / REMARKS |
|----------|--------------------------------|--------------------------------|-----------|-----------------------|
| DAF01    | 2007501 / 1684102 /<br>1425366 | MX<br>CF851V / XF105           | 6 CYL     |                       |
| DAF02    | 1653898                        | 85 CF / CF 85<br>95 XF / XF 95 | 6 CYL     |                       |

**DAVID BROWN**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                  | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                         |
|----------|------------------------------------------------------------------------------------|----------------|-----------|-----------------------------------------------------------------------------------------------|
| DB01     | K961007 / D917985 / 5321N                                                          | 3.0 L          | 4 CYL     | MODELS 990, LATE, AD 4/49                                                                     |
| DB02     | K210100 / D905196 /<br>K179935 / 917935 /<br>2338423 / 961007 /<br>666000 / 908453 | 3.6 L          | 4 CYL     | MODELS 990 EARLY, 995, 996, 1200, 1210, 1212,<br>AD 4 / 55, 12-1390, 1410, 1412<br>SMALL MAIN |
| DB03     | K928415 / K928416 /<br>43322 / D928                                                | 3.6 L          | 4 CYL     | LARGE MAIN<br>AD4155, 1410, 1490, 1494                                                        |

## DEUTZ – MAGIRUS

**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                            | MOTOR & ENGINE           | CYLINDERS | DESCRIPTION / REMARKS                                          |
|----------|--------------------------------------------------------------------------------------------------------------|--------------------------|-----------|----------------------------------------------------------------|
| DZ01     |                                                                                                              | F1L 411                  | 1 CYL     | 5 H.P. COUNTER WEIGHT OPTIONAL                                 |
| DZ02     | 02233635                                                                                                     | F1L 511<br>7.7 H.P.      | 1 CYL     | COUNTER WEIGHT OPTIONAL                                        |
| DZ03     | 04152745 / 20050551102                                                                                       | F2L 511 / D / W          | 2 CYL     | WITH COUNTER WEIGHT AND<br>SCREWS GEAR AVAILABLE               |
| DZ04     | 04152591 / 0223 / 2854 / 02929337 /<br>3371552 / 20050591203                                                 | F2L 912 / D / W          | 2 CYL     | WITH COUNTER WEIGHT<br>GEAR AVAILABLE                          |
| DZ05     | 04152646 / 02929338 / 210556 /<br>2136928 / 2931044 / 7513N                                                  | F3L 912 / D / W<br>2.8 L | 3 CYL     | 6240,2250<br>WITH COUNTER WEIGHT AND SCREWS<br>GEAR AVAILABLE  |
| DZ06     | 0415 2903 / 0213 8819 / 0292 9340 /<br>02931301 / 04150169 / 04152650 /<br>04232745 / 02931044 / 20050591204 | F4L 912 / D / W          | 4 CYL     | WITHOUT CENTER GEAR<br>WITH COUNTER WEIGHT MINIBUS             |
| DZ06A    | 0415 2903 / 0213 8819 / 0292 9340 /<br>02931301 / 04150169 / 04152650 /<br>04232745 / 02931044 / 20050591204 | F4L 912 / D / W          | 4 CYL     | WITHOUT CENTER GEAR<br>INTEGRATED COUNTER WEIGHT MINIBUS       |
| DZ07     | 0415 2646 / 0292 9338 /<br>20050591214 / 2931048 / 7514N                                                     | F4L 912 3.8 L            | 4 CYL     | WITH GEAR BIG MAIN / CONNECTING<br>WITH COUNTER WEIGHT         |
| DZ08     | 0415 1011 / 0292 9342 /<br>2136932 / 20050591206 / 04151011                                                  | F6L 912 / D / W          | 6 CYL     | ASPIRATED WITH COUNTER WEIGHTS<br>AND SCREWS<br>GEAR AVAILABLE |
| DZ09     | 02929345 / 02139405                                                                                          | BF6L 913 / C / T         | 6 CYL     | ASPIRATED TURBO WITH COUNTER WEIGHTS<br>AND SCREWS.            |
| DZ11     | 4270236                                                                                                      | 1011F                    | 4 CYL     | BF 4M 1011 / 2011<br>STROKE 112 mm<br>CONNECTING PIN-55mm      |

## DETROIT DIESEL

**FORGED**

| REF. NO. | ORIGINAL PART NO.           | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-----------------------------|----------------|-----------|-----------------------|
| DD01     | 471.030.0401 / 471.031.0701 | DD13           | 6 CYL     |                       |
| DD02     | 472.031.0301                | DD15           | 6 CYL     |                       |
| DD03     | 23515598                    | S60 / 12.7     | 6 CYL     |                       |
| DD03A    | 23527771                    | S60 / 12.7     | 6 CYL     |                       |



**DOOSAN**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| DO01     | 7386493, 70303237 | D24            | 4 CYL     | WITH GEAR             |

**EBRO FORDSON**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                   | MOTOR & ENGINE    | CYLINDERS | DESCRIPTION / REMARKS                                                                         |
|----------|-------------------------------------|-------------------|-----------|-----------------------------------------------------------------------------------------------|
| EF01     | EIADDN-6303-F /<br>81710532 / 66040 | 3.010 4D<br>592 E | 4 CYL     | MAJOR & SUPER MAJOR<br>POWER MAJOR, MAJOR PETROL<br>FORDSON SERIES<br>D FORD THAMES MODEL 220 |

**EICHER CANTER**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| CA01     |                   |                | 4 CYL     | EICHER CANTER         |
| CA02     |                   |                | 6 CYL     | EICHER CANTER         |
| CA03     |                   |                | 6 CYL     | EICHER JUMBO 2016     |

**ERKUNT**
**FORGED**

| REF. NO. | ORIGINAL PART NO.  | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                                 |
|----------|--------------------|----------------|-----------|-----------------------------------------------------------------------------------------------------------------------|
| ER01     | 201-47542          |                | 3 CYL     | Erkunt / Perkins 1103                                                                                                 |
| ER02     | 4181V017 / ZZ90236 |                | 3 CYL     | Erkunt / Perkins 1103 / 1003B - 33 / 103C - 33T<br>Lip Seal (Gear End : 3 Holes, Keyed,<br>Flange : 6 Holes, 1 Dowel) |
| ER03     | ZZ90237            |                | 4 CYL     | Erkunt / Perkins 1104 / 1004                                                                                          |
| ER04     | ZZ90222, ZZ90239   |                | 4 CYL     | Erkunt / Perkins 1004 / 1104 Lip Seal<br>(Gear End: 3 Holes, Splined, Keyed,<br>Flange: 10 Holes, 1 Dowel)            |

**FIAT IVECO TRACTOR**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                               | MOTOR & ENGINE     | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|-------------------------------------------------|--------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FT02     | 4785106                                         |                    | 3 CYL     | 480, 480S, 540 / 8035 - 01 / 02 / 04<br>MAIN 76.2 MM CON 58.75 MM<br>STROKE 11 OM<br>FLANGE 110 MM / FLANGE HOLE -07<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| FT04     | 4785111 / 98461246 /<br>5088486 99464932        |                    | 3 CYL     | 45 - 66 (66 Series) / 45 - 76 (76 Series)<br>50 - 66 (66 Series) / 55 - 46 (46 Series)<br>55 - 56 (56 Series) / 55 - 65 (65 Series)<br>55 - 66 (66 Series) / 55 - 75 (75 Series)<br>55 - 76 (76 Series) / 55 - 85 (85 Series)<br>55 - 86 (86 Series) / 55 - 88 (88 Series)<br>55 - 90 (90 Series) / 56 - 66 (66 Series)<br>60 - 46 (46 Series) / 60 - 56 (56 Series)<br>60 - 65 (65 Series) / 60 - 66 (66 Series)<br>60 - 75 (75 Series) / 60 - 76 (76 Series)<br>60 - 85 ( 85 Series) / 60 - 88 (88 Series)<br>60 - 90 (90 Series) / 60 - 93 (93 Series)<br>60 - 94 (94 Series) / 62 - 85 (85 Series)<br>62 - 86 (86 Series) / L60 (L Series)<br>(Gear Available) |
| FT05     | 4602840<br>1930130<br>4653850                   |                    | 3 CYL     | 450 TRACTOR, MAIN 76.2 MM, CON - 58.75 MM<br>STROKE - 110 MM, FLANGE 95 MM<br>FLANGE HOLE - 06 SHORT, WEB GROVE ON 4TH MAIN<br>(SUITABLE FOR MIDDLE EAST MARKET)<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| FT07     | 4653287                                         | 8040.02            | 4 CYL     | FIAT 50 NC LORRY<br>6 Holes - Flange 95 mm<br>CLASSIC TRACTORS -550 / 600 / 640 / 666 / 670 / 680<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| FT08     | 98451527 /<br>098449226 /<br>504075031          | 8040.05<br>8040.25 | 4 CYL     | 50.9 - 65.12 ZETA / 65E10 - 75E12,<br>50NC 85.12 / 65.9 / 35.9, Suitable for tractor<br>MAIN - 79.8 MM CON - 63.75 MM<br>STROKE - 115 M, FLANGE 114 MM FLANGE HOLE - 07<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| FT09     | 4785110 /<br>4785304 /<br>98451529 /<br>5088487 |                    | 4 CYL     | 65 - 66 (66 Series) / 65 - 90 (90 Series)<br>65 - 93 (93 Series) / 65 - 94 (94 Series)<br>70 - 66 (66 Series) / 70 - 66 F (66 Series)<br>70 - 76 F (76 Series) / 70 - 90 (90 Series)<br>72 - 93 (93 Series) / 72 - 94 (94 Series)<br>80 - 66 (66 Series) / 80 - 66 F (66 Series)<br>80 - 76 (76 Series) / 80 - 76 F (76 Series)<br>80 - 90 (90 Series) / 82 - 93 (93 Series)<br>82 - 94 (85-90 (90 Series) / 88 - 93 (93 Series)<br>88 - 94 (94 Series) / L65 (L Series)<br>L75 (L Series) / L85 (L Series) / L95 (L Series)<br>(Gear Available)                                                                                                                   |
| FT11     | 4785107                                         | 8060 / 8065.25     | 6 CYL     | 95.14.1 -109.14.1 -110.14 -<br>EUROCARGO 116136 CV - FIAT 150NT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



| FORD     |                                                                                                                  |                                |           | FORGED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------|------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REF. NO. | ORIGINAL PART NO.                                                                                                | MOTOR & ENGINE                 | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| FO01     | C5NE-6303-R<br>ECNN-63038-A<br>C5NE6303L<br>C5NE6305<br>EONN6303AA<br>1590N<br>247-5215                          | D175 / D183 /<br>D192 / BSD329 | 3 CYL     | FORD 3000 SERIES STROKE 4.2" 2000,<br>2100, 2110, 2120, 2300, 230A, 2310, 234,<br>2610, 2910, 3000, 3000 Super Dextra,<br>3055, 3100, 3110, 3120, 3150, 3190, 3230,<br>3300, 3310, 333, 3330, 335, 336, 340,<br>340A, 3400, 3500, 3550, 3600, 3610,<br>3900, 3910, Gas 4000 Series                                                                                                                                                                                                                                                                                                       |
| FO02     | FONN-6300-MA /<br>C5NE-6303N /<br>C5TE6303 /<br>E5NN6306N /<br>E5NN6303AA,<br>FONN6303BA,<br>83956951,<br>1591N  | BSD 333 3.3L                   | 3 CYL     | FORD 4000 SERIES 245D, 250C, 260C,<br>3930, 3930H, 3930N, 4130, 420, 4400,<br>445, 445C, 445D, 4500, 4630, 515, 530A,<br>531, 535, 540, 545, 4000, 3930NO, 4000<br>Major, 4100, 4110, 4130, 4130N, 4130NO, 4140,<br>4190, 4200, 4330, 4340, 4400, 4410,<br>4500, 4600, 4600SU, 4610, 4610SU, 4630,<br>260C, 455, 455C, 455D, 515, 530A,<br>531, 532, 535, 540, 540A, 540B, 545,<br>545A, 545C, 550, 555, 555A, 555B Skid<br>Loaders : L783, L785                                                                                                                                         |
| FO03     | C5NE-6303-K<br>1595N /<br>6110A                                                                                  | 233 / 256 /<br>BGD442          | 4 CYL     | FORD 5000 SERIES STROKE 4.2"<br>(AFTER 9/4/1986) GEAR 76 TEETH<br>Super Major 5000, 51 00, 5190, 5200,<br>5500, 5550, 5600, 6510, 5700, 6000,<br>650, 655, 6500, 6600, 6610, 6700,<br>Combines : 620, 622,<br>Loaders : A62, 750,<br>Dorsett Wheel Tractors : 7000, 7100,<br>7200, 7500, 7600, 7610, 7700, 7710                                                                                                                                                                                                                                                                          |
| FO05     | E5NN6303DA                                                                                                       |                                | 4 CYL     | FORD 6010 SERIES STROKE 4.4"<br>GEAR 78 TEETH / 6610 / 5640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| FO06     | C5NE-6303-K<br>1595N, 6110A                                                                                      | 233 /<br>256 /<br>BSD442       | 4 CYL     | FORD 5000 SERIES STROKE 4.2" (BEFORE 9 / 4 / 1986)<br>Major 5000 / 5600 / 6600 / 7000 / 7600 / 7700<br>Super Major 5000 / 51 00 / 5190 / 5200 / 5500 / 5550 /<br>5600 / 561 0 / 5 700 / 6000 / 650 / 655 / 6500 / 6600 /<br>6610 / 6700, Combines : 620, 622<br>Loaders : A62, 750, Dorsett                                                                                                                                                                                                                                                                                              |
| FO07     | D9NN-6303-AA / E5NN 6303FA / NN 6303CB<br>E5NN6303DA / E5NN6303CA<br>D9NN6303A / D5NN6303A<br>1598N / D9NN6110AA | D268 /<br>BSD444 /<br>655      | 4 CYL     | FORD 6000/ 7 61 0 SERIES STROKE 4.4"<br>GEAR 78 TEETH (PRIOR TO 9 / 4 / 1986)<br>6000 / 6600 / 661 0 / 6700 / 671 0 / 7000 /<br>7600 / 761 0 / 7700 / 771 0 / 7200 / 7100 /<br>7500 Loader : A62 Dorsett Diese                                                                                                                                                                                                                                                                                                                                                                           |
| FO08     |                                                                                                                  |                                | 4 CYL     | 4230 (30 Series) / 4330/ 4430 (30 Series) / 4835 (35 Series)<br>/ 5010 S (1 0 Series) / 5635 (35 Series ) / 6635 (35 Series) /<br>7635 (35 Series ) / L65 (L Series) / L75 (L Series) /<br>L85 (L Series) / L95 (L Series) / TD75 D (TD Series) /<br>TD80 (TD Series) / TD80 D (TD Series) / Td85 D (TD Series)/<br>TD90 (TD Series) / TL 100 (TL Series) / TL70 (TL Series) /<br>TL80 (TL Series) / TL 90 (TL Series) / TN65 F (TN Series) /<br>TN70 F (TN Series) / TN75 F (TN Series) / TN75 FA (TN Series)/<br>TN80 (TN Series) / TN85 FA (TN Series) / TN95 F (TN Series)/<br>TN90F |
| FO09     |                                                                                                                  |                                | 3 CYL     | 3010S3435 (35 Series ) / 3830 (30 Series)<br>3935 (35 Series ) / 401 0S4030 (30 Series) /<br>4135 (35 Series) / 4635 (35 Series ) /<br>501 0STD55DTD60 (TD Series) / TD60DTD65DTL65<br>(TL Series) / TN55 (TN Series) / TN55DTN60ATN65<br>(TN Series) / TN70 (TN Series) / TN75 (TN Series)                                                                                                                                                                                                                                                                                              |

**FORD**
**FORGED**

| REF. NO. | ORIGINAL PART NO.   | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                  |
|----------|---------------------|----------------|-----------|----------------------------------------|
| FO11     | 957E6303<br>E2006TP |                | 3 CYL     | Dexta, Super Dexta<br>Ford New Holland |
| FO12     |                     |                | 4 CYL     | F 250 / F 350                          |

**HATZ**
**FORGED**

| REF. NO. | ORIGINAL PART NO.  | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS          |
|----------|--------------------|----------------|-----------|--------------------------------|
| HAT 01   | 333901.119         |                | 1 CYL     | E 89 (PANCAR MOTOR)            |
| HAT 02   | 425900.349         |                | 2 CYL     | Z 108 (PANCAR MOTOR)           |
| HAT 03   | 13000202249        |                | 1 CYL     | E 75 (PANCAR MOTOR)            |
| HAT 04   | 10461902272        |                | 2 CYL     | E 780 (PANCAR MOTOR)           |
| HAT 05   | 00010R0080 / 01008 |                | 2 CYL     | E 780 / RUGGERINI RY120 - E 78 |

**HINDUSTAN**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| HS50     |                   |                | 4 CYL     | HINDUSTAN SUPER 50    |

**HINDUSTAN SUPER**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| HS50     |                   |                | 4 CYL     | HINDUSTAN SUPER 50    |

**HINO**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                         |
|----------|-------------------|----------------|-----------|---------------------------------------------------------------|
| HN01     | 13411-1592        |                | 4 CYL     | HIN04D / HINOW04D                                             |
| HN02     | X3310211          |                | 6 CYL     | HIN06D Also suitable for Ashok<br>Leyland 6D engine Hino H07C |
| HN03     | F3349611          |                | 6 CYL     | HIN06E Also suitable for<br>Ashok Leyland 6E engine           |

**HYUNDAI**
**FORGED**

| REF. NO. | ORIGINAL PART NO.       | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                    |
|----------|-------------------------|----------------|-----------|----------------------------------------------------------|
| HU01     | 2311142002 / 2311142901 |                | 4 CYL     | D4BB H-100 Minibus<br>GALLOPER / H / HR 100              |
| HU02     | 2310041700              |                | 4 CYL     | D4AA / D4FB / D4DA HD72 / HD77<br>H-350 TRUCK New Mighty |



## HYUNDAI

**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS     |
|----------|-------------------|----------------|-----------|---------------------------|
| HU03     | 2310041001        |                | 4 CYL     | D4DE / D4AF<br>Old Mighty |

## IFA

**FORGED**

| REF. NO. | ORIGINAL PART NO.     | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                         |
|----------|-----------------------|----------------|-----------|-----------------------------------------------|
| IFA01    | 0692-01<br>2795971006 | W - 50         | 4 CYL     | BOLTED COUNTER WEIGHT<br>FORT SCHRITT 300-303 |

## ISUZU

**FORGED**

| REF. NO. | ORIGINAL PART NO.                    | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                      |
|----------|--------------------------------------|----------------|-----------|------------------------------------------------------------|
| ISU 01   | 8971129812 / 8971465202 / 8971129813 |                | 4 CYL     | 4HF1 / 4HG1 NPR66 CHAMPION                                 |
| ISU 02   | 8980292701 / 8973515343              |                | 4 CYL     | 4HE1 NPR                                                   |
| ISU 03   | 8980292700 / 8973525342              |                | 4 CYL     | 4HE1 / 4HKIT / 4HK1 NQR 70 /<br>6T TRUCK NPR 70 / 8T TRUCK |
| ISU 04   | 8973318530                           |                | 4 CYL     | 4JB1T 5.2T TRUCK NKR 55E                                   |
| ISU 05   | 8944436620 / 8944552401 / 8970236620 |                | 4 CYL     | 4JA1 / 4JB1 NKR                                            |

## JAGUAR

**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| JG01     | AJV6D             | 3.0L           | 6 CYL     | JAGUAR XF CRANKSHAFT  |

## JCB

**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                            |
|----------|-------------------|----------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JCB01    | 02101825          |                | 4 CYL     | Loader<br>410, 520, 525-58, 525-67, 530-110, 530-120, 530-95<br>Loading Shovel 412, 415<br>Sitemaster 3C / Sitemaster 3CX / Sitemaster 3D<br>Sitemaster 3D / Sitemaster 4C, 4CN<br>Telescopic Handler 520, 525, 530, 140, 1400 B,<br>1550 B, 214, 409 TM, 502-22, 506-36, 520 HL, 520 M,<br>525 B, 525 B-HL, 530 B, 540 B, 540 BM, 811, 909<br>Turbo, 910, TM200 |

**JOHN DEERE**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                                                                                                                                                                      | MOTOR & ENGINE                                                                                                    | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JD01     | AT-8031 / T-23516 / RE-47637 RE-46896 / T20031 / 247-5144 / 6833N / T2351C / T23516T / T23517T                                                                                                                                                         | 3-152, 152 C.I.D.<br>2.5 L 3-764, 164<br>C.I.D. 2.7 L 3 -179,<br>179 C.I.D. 2.9 L                                 | 3 CYL     | 940, 1020, 1030, 1040, 1120, 1130<br>1140, 1520, 1530, 1630, 2020, 2040,<br>2150, 2155, 2240, 2255, 2355NCS,<br>2355NTSS, 300, 300A, 300BT, 301,<br>3018, 302A, 3029, 3029D, 310, 350<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                   |
| JD01A    | 247-5225, 6897N<br>RE50979, RE521348, R101223                                                                                                                                                                                                          | 3 -179 / 3029<br>Power Tech<br>179 C.I.D., 2.9 L                                                                  | 3 CYL     | 2155, 2355N, 2240, 5105, 5205,<br>5200, 5300, 5400, 5210, 5310,5310N,<br>5410, 5510,5510N, 5220, 5320,<br>5320N, 5400N, 5500N, 420,<br>5420N, 5520, 5520N<br>Tractors, 240, 250, 260, 270, 8875<br>Skid Steer Loaders, 300 Series<br>(Gear Available)                                                                                                                                                                                                                                                                                                                       |
| JD02     | AT-18030 / T-23517 / R23517 / R81959 / R94644 / RE48748 / 23909 / 247-5154 / 6826N / 97926 / 97928/ R979266 / T23266 / T23480T / T23517T / T28743T                                                                                                     | 4-202, 202 C.I.D.,<br>3.3 L 4-219, 219<br>C.I.D., 3.6 L<br>4-239 (Early)<br>Below SN 769,619<br>239 C.I.D., 3.9 L | 4 CYL     | SHORT NOSE 36 MM<br>1640, 1830, 1840, 2020, 2030, 2040, 2040S, 2120,<br>2130, 2100, 2250, 2270, 2280, 2320, 2355C2,<br>2355TSS, 2360, 2420, 2450, 244E, 2510, 2520,2523,<br>2555C2, 2650, 2730, 2735, 2750, 2755CS, 2755TSS,<br>2850, 2855N, 290D,370, 310B, 310C, 310D, 315C,<br>3300, 34, 3430, 3830, 401, 401A, 401B, 401 C, 401D,<br>4020, 4030T, 4039D, 4039T, 400, 410, 410B, 515B, 44,<br>440, 440A ,440B, 450, 450A, 450B, 450C, 450D, 454,<br>455D, 480, 480A, 480B, 480C, 482C, 490, 499, 515B,<br>6040, 6200, 6300,6602, 6620, 6622, 70, 70D<br>(Gear Available) |
| JD03     | RE-20585, RE-36605, RE23909, R97926, R97928, R121018, R81959, R979266, Re65224                                                                                                                                                                         | 4-219 / 4-039 /<br>4-239 (Late)<br>Above SN 769,620<br>239 C.I.D., 3.9 L                                          | 4 CYL     | LONG NOSE 60 MM, 2755, 6040, 4039, 190<br>Excavator, 300 D, 310 C, 315 C Loader / Backhoe<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| JD04     | AT-22562 / T-23266, RE502190, RE45541, RE47640, RE48330, R108568, R108679, R45541, 247-5058, 6837N, FI910R, F2729R, F2792R, F3315R, F3560R, F3561R, R26550, R26550R, R40730, RE4554I, RE54130, T2, 264T, T23266 T, T23299T, T23480T, T23517T, RE502190 | 6 -303 5L<br>6 -329 5.4L<br>6 -359 5.9L<br>6059D / T / A 5.9L                                                     | 6 CYL     | 3030 / 3040 / 3120 / 3130 / 3640 / 4040S / 2840, 2940,<br>2950, 2955, 3130, 3140, 3150, 3155TSS, 4030, 4200,<br>4400, 4420, 4425, 444, 444C, 444CH, 444D, 499, 540,<br>540A, 540E, 540G, 544, 544A, 544C, 544D, 544E, 544G,<br>548E, 570, 570A, 570B, 710B, 710C, 710D, 6059D,<br>5049T, 699, 7484, 9900, 9910, 9920, 9930<br>(Gear Available)                                                                                                                                                                                                                              |
| JD05     | RE-54883 / RE-33485 (OLD) / R90825D / R1 20009 / 247-5156 / 6852N / R121018 / RE55452                                                                                                                                                                  | 4 -276 / 4 -276T /<br>4 -045 I 4 -045T /<br>4045D, 276 C.I.D.<br>4.5L                                             | 4 CYL     | LONG NOSE 60MM, 410D, 440G,<br>51 0D Loader 490E Excavator,<br>540E Skidder, 548E Grapple /<br>Skidder (Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| JD06     | RE56792, RE71439, R54501, 247-5158, 6812N, R108657, R54501R                                                                                                                                                                                            | 4.276 / 4.276T                                                                                                    | 4 CYL     | 340D, 440C, 448D, 540B, 540D, 548D Skidder,<br>344E, 410C, 444E, 510B, 510C, 610, 610B, 610C,<br>650G Loaders 450E, 450G, 455E, 455G, 550, 550A,<br>550B, 550G, 555, 555A, 555B, 55G Crawlers, 490D,<br>493D, 495D, 590D, 595, 595D Excavator, 2630, 2640,<br>6215, 6415 (Gear Available)                                                                                                                                                                                                                                                                                   |



**JOHN DEERE**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                             | MOTOR & ENGINE                                                                             | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JD07     | RE-45517, RE-33687 (OLD),<br>RE-4619, RE-63024, RE502191, R54619,<br>247-5132, 6820N, R104523 | 6.414D. / 6.414T<br>6.8 L / 6068<br>6068D / 6068 T / 6.8L                                  | 6 CYL     | 414, 414D, 544B, 544C, 544D, 624E, 624G, 640, 640D,<br>640E, 643, 643D, 648D, 648E, 648G, 653, 655B, 670,<br>670A, 670B, 672A, 672B, 690D, 690E, 693D, 750, 750B,<br>750C, 755, 755A, 755B, 790E<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| JD08     | RE 50618, RE 504638,<br>R113596, 247 -5213, 6858N                                             | 4045, 4.5 L<br>Powertech                                                                   | 4 CYL     | SINGLE STEP<br>TC444H, 120, 210LE, 310E, 310G, 310SE, 310SG,<br>315SE, 315SG, 410E, 410G, 444H, 450G, 450H, 455G,<br>485E, 486E, 488E, 550G, 550H, 555G, 641 O, 641OL,<br>650G, 650H, 5403, 5410, 5415, 5415H, 5420, 5420N,<br>5425, 5425N, 5510, 5510N, 5520, 5520N, 5525,<br>5525N, 5605, 5615, 5705, 5715, 5715HC, 6110, 611 OL,<br>6120, 6120L, 6210, 6210L, 6215, 6220, 6220L, 6310,<br>6310L, 6310S, 6320, 6320L, 6403, 6405, 641 OS, 6415,<br>6420, 6420L, 651 OL, 651 OS, 6520L Skid Steers:<br>260, 270, 280 Sprayers: 6700<br>(Gear Available)                                                                                                                                                                    |
| JD08A    | RE 50618, RE 504638,<br>R113596, 247 -5213, 6858N                                             | 4045, 4.5 L<br>Powertech                                                                   | 4 CYL     | DOUBLE STEP<br>TC444H, 120, 210LE, 310E, 310G, 310SE, 310SG,<br>315SE, 315SG, 41 OE, 41 OG, 444H, 450G, 450H,<br>455G, 485E, 486E, 488E, 550G, 550H, 555G, 6410,<br>6410L, 650G, 650H, 5403, 5410, 5415, 5415H, 5420,<br>5420N, 5425, 5425N, 5510, 5510N, 5520, 5520N, 5525,<br>5525N, 5605, 5615, 5705, 5715, 5715HC, 6110, 6110L,<br>6120, 6120L, 6210, 6210L, 6215, 6220, 6220L, 6310,<br>6310L, 6310S, 6320, 6320L, 6403, 6405, 641OS, 6415,<br>6420, 6420L, 6510L, 651OS, 6520L<br>Skid Steers: 260, 270, 280<br>Sprayers: 6700 (Gear Available)                                                                                                                                                                       |
| JD09     | RE506195<br>R503715                                                                           | 4045 4.5L<br>PowerTech                                                                     | 4 CYL     | Tractors:<br>310J, 31 OSJ, 344H ( SN800000> ), 3800, 41 OJ. 444J<br>(Tier III SN 611 275> ), 450J (Tier III SN 15998 7 > ),<br>550J (Tier III SN 159987> ), 650J (Tier III SN 159987> )<br>European: SE6010, SE6020, SE6110, SE6120, SE6210,<br>SE6220, SE6310 ,SE6320, SE6410, Se6420 ,5415, 5510,<br>5510N, 5515, 5605, 5615, 5620, 5705, 5720, 5820,<br>6010, 6020, 6110, 6110L, 6120, 6120L, 6130, 6205,<br>6210, 6210L, 6215, 6220, 6220L, 6225, 6230,<br>6230 PREMIUM, 6310, 6310L, 6310S, 6320, 6320L, 6325,<br>6330, 6330 PREMIUM, 6405, 6410, 6410L 641OS,<br>6415 (Eng SN 196071> ), 6420, 6420L, 6420S, 6425,<br>6430, 6430 PREMIUM, 6510L, 651OS, 6520L<br>Brazil : 5403 (Eng. SN 006876> )<br>(Gear Available) |
| JD10     | AR96189, R26540, R26560, R56919, R56934,<br>RE63451, RE53422, RE26560R, R40570,<br>R40740R    | 6076 Early, 6404 Late<br>Above SN 215,000,<br>6.6 L, 6466 Early<br>Below SN 499,000, 7.6 L | 6 CYL     | 4010 Early, 4020, 4040, 4230, 4240,<br>4320, 4430, 4620, 4630, 7020<br>SHORT NOSE 3"<br>(Gear Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**JOHN DEERE**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                                                                             | MOTOR & ENGINE                             | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                          |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JD11     | RE42674, AR26431, R26560, RE63292, 247 - 5137, 6822N<br>R26549, R26560, R4074R, R53203                                                                        | 6.404 Early<br>SN BELOW 21 4, 999<br>6.6 L | 6 CYL     | 600 Wheel Loader<br>4000, 4010, 4020, 4230, 4230, 4430, 4630<br>Wheel Tractors, 600, 644, 644A, 646, 646B, 690, 690A, 690B, 693B, 740<br>(Gear Available)                                                                                                                                                                                                                                      |
| JD12     | 6857N, R104855, R26560, R26560R, RE42675, RE53203, RE53477, R56506, R56919, R56934, R56979, R63451, R87544A                                                   | 6466 /<br>6076 Late                        | 6 CYL     | SHORT NOSE<br>4000, 4010, 4020, 4040, 4230, 4240, 4430, 4440, 4450, 4630, 4640, 4650, 466, 4830, 4840, 4850, 4960, 5460, 5720, 5730, 600, 6076, 644, 644A, 5720, 5730, 600, 6076, 644, 644A, 644C, 644D, 646C, 690, 690A, 690C, 693C, 740, 740A, 743, 743A, 762A, 762B, 7700, 7720, 770A, 770B, 772A, 772B, 790, 790D, 792, 793D, 8430, 8440, 8450, 850B, 8820, 892D, 9950<br>(Gear Available) |
| JD13     | R104855, RE53201, RE42671, RE63293, 247 -5164, 6855N, R26506, R26506R, R56919, R87544, RE27132, RE42675, RE53199, RE53201, RE53291, RE53292, RE63293, RG23551 | 6076 Late<br>7.6 L<br>ABOVE SN<br>187, 658 | 6 CYL     | LONG NOSE<br>4455, 4555, 4755, 4760, 4955, 4960, 6076, 6076A, 6076D, 6076H, 6076T, 644E, 644EH, 644ER, 644G, 740E, 748E, 748G, 7700, 7800, 8560, 8570, 892E, 9960 (Gear Available)                                                                                                                                                                                                             |
| JD14     |                                                                                                                                                               |                                            | 4 CYL     | Agricultural Tractor-2000 series 2000, 2100, 2200, 2300                                                                                                                                                                                                                                                                                                                                        |

**KAWASAKI**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                        | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                             |
|----------|------------------------------------------|----------------|-----------|-----------------------------------------------------------------------------------|
| KA 01    | EZGO 603531                              |                | 1 CYL     | KAWASAKI engine for EZGO gas 2008-up RXV                                          |
| KA 02    | EZGO 72503-G01<br>CART PARTS CP72503-G01 |                | 2 CYL     | Crankshaft 350cc for EZGO gas 1996-02                                             |
| KA 03    | CART PARTS CP17443-G1                    |                | 1 CYL     | EZGO gas 2Cycle 1980 - 88                                                         |
| KA 04    | CART PARTS<br>CP1019223-01               |                | 1 CYL     | Crankshft with clockwise rotation for Club car gas 1997-03 DS and precedent FE290 |



**KIRLOSKAR**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS        |
|----------|-------------------|----------------|-----------|------------------------------|
| KIR01    | 2H002100          |                | 2 CYL     | KIRLOSKAR HA2 GEAR AVAILABLE |
| KIR02    | 3H002100          |                | 3 CYL     | KIRLOSKAR HA3 GEAR AVAILABLE |
| KIR03    | 4H002100          |                | 4 CYL     | KIRLOSKAR HA4 GEAR AVAILABLE |
| KIR04    | 6H002100          |                | 6 CYL     | KIRLOSKAR HA6 GEAR AVAILABLE |

**KOMATSU**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| KO01     | 6732-31-1100      | 4D102          | 4 CYL     |                       |
| KO02     | 6735-01-1310      | 6D102          | 6 CYL     |                       |
| KO03     | 6745-31-1120      | 6D114          | 6 CYL     |                       |

**KUBOTA**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| KU01     | 1532 / 23010      |                | 3 CYL     | L295 / 295DT TRACTOR  |
| KU02     | 1G962-23012       | D902           | 3 CYL     |                       |

**LADA**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS    |
|----------|-------------------|----------------|-----------|--------------------------|
| LA01     | BA869699          |                | 4 CYL     | LADA PETROL<br>FIAT 1100 |

**LAND ROVER**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                    |
|----------|-------------------|----------------|-----------|------------------------------------------|
| LR 01    |                   | 3.0 TD         | 6 CYL     | LAND ROVER DISCOVERY SDV6                |
| LR 02    |                   | 3.0 L<br>2.7 L | 6 CYL     | RANGE ROVER TD V6 / RANGE<br>ROVER SPORT |

**LEYLAND**
**FORGED**

| REF. NO. | ORIGINAL PART NO.  | MOTOR & ENGINE        | CYLINDERS | DESCRIPTION / REMARKS                             |
|----------|--------------------|-----------------------|-----------|---------------------------------------------------|
| LEY01    | F3336611 / CCJ0004 | 400 / 401 / 402 / 411 | 6 CYL     | BRITISH LEYLAND U.K. ASHOK<br>LEYLAND BMC LEYLAND |
| LEY02    |                    |                       | 3 CYL     | LEYLAND 245, 253                                  |
| LEY03    |                    |                       | 3 CYL     | LEYLAND MARSHALL<br>502                           |

**LISTER PETTER**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| LP 01    | 201-47542         | TR1            | 1 CYL     | T RANGE               |
| LP 02    | 202-47542         | TR2 / TX2      | 2 CYL     | T RANGE               |
| LP 03    | 203-47542         | TR3            | 3 CYL     | T RANGE               |

**LOMBARDINI**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                |
|----------|-------------------|----------------|-----------|----------------------------------------------------------------------|
| LOM 01   | 1052595           |                | 1 CYL     | 3LD 510 ( Long Type / Flywheel<br>Teeth - Right / Motor Type - Left) |
| LOM 02   | 1051068           |                | 1 CYL     | 3LD 450 (Short Type / Flywheel<br>Teeth - Right / Motor Type -Left)  |
| LOM 08   | 1053097           |                | 1 CYL     | 3LD 450 (Short Type / Flywheel<br>Teeth - Right / Motor Type - Left) |
| LOM 09   | 1051082           |                | 1 CYL     | 3LD 510 (Short Type / Flywheel<br>Teeth - Left/ Motor Type - Right)  |
| LOM 10   | 1051083           |                | 1 CYL     | 3LD 510 (Short Type / Flywheel<br>Teeth - Right/ Motor Type - Left)  |
| LOM 11   | 1050055           |                | 1 CYL     | 3LD 450 (Long Type / Flywheel<br>Teeth - Left / Motor Type - Right)  |

## LONG TRACTOR

**FORGED**

| REF. NO. | ORIGINAL PART NO.  | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                             |
|----------|--------------------|----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LG01     | TX10170<br>TX15106 |                | 3 CYL     | 2360, 2360DTC, 2460, 2460DTC, 2460SD, 2460SDDTC, 2510, 2510DTC, 2510SD, 2510SD- DTC, 350, 360, 360C, 445, 445DT, 445SD, 445V, 460, 460DT, 460SD, 460V, 510, 510DT |

## MWM

**FORGED**

| REF. NO. | ORIGINAL PART NO.                       | MOTOR & ENGINE   | CYLINDERS | DESCRIPTION / REMARKS                             |
|----------|-----------------------------------------|------------------|-----------|---------------------------------------------------|
| MW01     | 9.226.8.140.001.6,<br>9.226.8.140.001.8 | D225 / 226 / 229 | 4 CYL     | Stroke 120.0 mm<br>NO center gear / balancer      |
| MW02     | 6.228.0.140.014.5<br>6.228.8.140.014.8  | TD229 Turbo      | 4 CYL     | MaxxForce Engine 4.0 Stroke<br>120.0 mm / NO gear |

## MACK

**FORGED**

| REF. NO. | ORIGINAL PART NO.                   | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------------------------|----------------|-----------|-----------------------|
| MA01     | 456GC2125<br>456GC5113<br>456GCF586 | E - 6          | 6 CYL     |                       |

## MAHINDRA AND MAHINDRA / INTERNATIONAL HARVESTER

**FORGED**

| REF. NO.     | ORIGINAL PART NO. | MOTOR & ENGINE     | CYLINDERS | DESCRIPTION / REMARKS                          |
|--------------|-------------------|--------------------|-----------|------------------------------------------------|
| MM - IH -101 | 55570540R11       | 275 D1 / T4 SERIES | 3 CYL     |                                                |
| MM - IH -102 | 5557055           | 265 DI             | 3 CYL     | REGULAR BS                                     |
| MM - IH -103 | 5553039           | 475 DI             | 4 CYL     | REGULAR BS    <br>780, 880, 885, 4600 Tractors |

## MAHINDRA AND MAHINDRA

**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE   | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|------------------|-----------|-----------------------|
| MM 104   |                   | XD 3P<br>2.5L    | 4 CYL     | MAHINDRA BOLERO       |
| MM 105   |                   | MDI 3200<br>2.6L | 4 CYL     | MAHINDRA BOLERO       |



**MAZDA**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS     |
|----------|-------------------|----------------|-----------|---------------------------|
| MZ 01    | SL01 11 301 C     |                | 4 CYL     | PICKUP VAN / SWARAJ MAZDA |
| MZ 02    | SL50 11301 A / B  |                | 4 CYL     | SL, T3500                 |

**MERCEDES – BENZ**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                                                                                                     | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OM02     | 314.030.62.02 / 314.030.60.02<br>314.030.55.02 / 314.030.33.02<br>314.030.49.02 / 314.030.44.02                                                                                       | OM314          | 4 CYL     | Trucks L 608 / L 708<br>Chassis w / bus LO 603/ 608 LO / LO 708<br>4 INTEGRATED COUNTER WEIGHTS<br>KNURLED<br>97 MM                                                                                                                                                                                                                                                                                   |
| OM03     | 314.030.61.02 / 314.030.52.02<br>314.030.32.02 / 314.030.20.02<br>314.030.55.01 / 314.030.50.02<br>314.030.52.05                                                                      | OM314          | 4 CYL     | Trucks L 608 / L 708<br>Chassis w / bus LO 603/ 608 LO / LO 708<br>4 INTEGRATED COUNTER WEIGHTS<br>SCROLLED<br>97 MM                                                                                                                                                                                                                                                                                  |
| OM06     | 352.030.3202 / 352.030.7402<br>352.030.3402 / 352.030.6802<br>352.030.0002                                                                                                            | OM321          | 6 CYL     | 911 B - SCROLLED<br>(INTEGRATED COUNTER WEIGHTS)<br>Trucks 1113 / 1114 / 1115 / 1118 / 1313 / 1314 / 1315 /<br>1316 / 1317 / 1318 / 1513 / 1514 / 1518 / 2013 / 2014 /<br>2016 / 2017 / 2213 / 2214 / 2216 / 2217 / 2218 / 2314<br>Chassis w / bus LO LPO - 1113 / 1114 / 1116 /<br>OF IT 1115 / LO - OF - OM 1313 / 314 / OF - OH 1313 /<br>1314 / OF - OH 1315 / 1318 / 1518 / LO - OH 1317<br>97MM |
| OM06A    | 352.030.3402<br>352.030.1502<br>352.030.5802<br>352.030.6802<br>352.030.0002                                                                                                          | OM 352 / 353   | 6 CYL     | SCROLLED COUNTER WEIGHT FASTENED WITH BOLTS.<br>Trucks 1113 / 1114 / 1115 / 1118 / 1313 / 1314 / 1315 /<br>1316 / 1317 / 1318 / 1513 / 1514 / 1518 / 2013 / 2014 /<br>2016 / 2017 / 2213 / 2214 / 2216 / 2217 / 2218 / 2314<br>Chassis w / bus LO LPO - 1113 / 1114 / 1116 /<br>OF IT 1115 / LO - OF - OM 1313 / 1314 / OF - OH 1313 /<br>1314 / OF-OH 1315 / 1318 / 1518 / LO - OH 1317<br>97MM      |
| OM07     | 352.030.6402 / 352.030.3702<br>352.030.5802 / 52.030.7002<br>352.030.4602 / 344.030.4901<br>344.030.6701 / 344.031.9301<br>352.030.0902 / 352.030.7002<br>352.030.7802 / 352.030.8002 | OM352          | 6 CYL     | 911 C - KNURLED (INTEGRATED COUNTER WEIGHTS)<br>Trucks 1113 / 1114 / 1115 / 1118 / 1313 / 1314 / 1315 /<br>1316 / 1317 / 1318 / 1513 / 1514 / 1518 / 2013 / 2014 /<br>2016 / 2017 / 2213 / 2214 / 2216 / 2217 / 2218 / 2314<br>Chassis w / bus LO LPO - 1113 / 1114 / 1116 /<br>OF IT 1115 / LO - OF - OM 1313 / 1314 / OF - OH 1315 /<br>1318 / 1518 / LO - OH 1317<br>97MM                          |
| OM07A    | 352.030.3702 / 352.030.4602<br>352.030.5802 / 352.303.7002<br>352.030.6402 / 352.030.7802<br>344.030.4901 / 344.030.6701<br>344.031.9301 / 352.030.0902<br>352.030.8002               | OM 352 / 353   | 6 CYL     | KNURLED COUNTER WEIGHT FASTENED WITH BOLTS<br>Trucks 1113 / 1114 / 1115 / 1118 / 1313 / 1314 / 1315 /<br>1316 / 1317 / 1318 / 1513 / 1514 / 1518 / 2013 / 2014 /<br>2016 / 2017 / 2213 / 2214 / 2216 / 2217 / 2218 / 2314<br>Chassis w / bus LO LPO - 1113 / 1114 / 1116 /<br>OF IT 1115 / LO - OF - OM 1313 / 1314 / OF - OH 1315 /<br>1318 / 1518 / LO - OH 1317<br>97MM                            |

**MERCEDES – BENZ**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                         | MOTOR & ENGINE               | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|-------------------------------------------------------------------------------------------|------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OM08A    | 364.030.1102 / 364.030.0702<br>364.030.1302 / 364.030.1402<br>364.030.1201 / 374.030.0002 | OM 364 /<br>A / LA           | 4 CYL     | INTEGRATED COUNTER WEIGHTS<br>Aspirated / Turbo intercooler<br>Buses 6 10 U / L 709 / L 710 / L 712L 912 / L 915<br>Chassis w / bus LO 712 / 812 - OF 809 / 812 - LB 814 /<br>LN 914 / 914 ON / OF 1114 / OF 1214<br>97.5MM                                                                                                                                                                                                                        |
| OM09     | 366.031.1201 / 366.030.0702<br>366.030.1102 / 366.030.1402<br>366.030.1502 / 366.030.1602 | OM 366 / A /<br>LA / G       | 6 CYL     | 8 INTER GRATED COUNTER WEIGHTS<br>Trucks 1214 / 1218 / 1318 / 1418 / 1420 / 1614 / 1615 /<br>1618 / 1620 / 1621 / 1622 / 1714 / 1718 / 1720 / 1721 /<br>1723 / 2314 / 2318 / 2418 / 2420<br>Chassis w / bus OF 113 / 1115 / 1215 / 1315 / 1316 / 1318 /<br>1320 / 1721 / OH 1315 / 1316 / 1318 / 1320 / 1721 /<br>OH 1315 / 1316 / 1319 / 1419 / 1420 / 1521 / 1620 / 0371 /<br>UL - ULP 1214 / 1418 / 1718 / 1721 / 2414 / 2418<br>97.5MM         |
| OM09A    | 366.030.1102<br>366.030.0702<br>366.030.1402<br>366.030.1502<br>366.030.1602              | OM 366 / A /<br>LA / G       | 6 CYL     | 8 COUNTER WEIGHTS FASTENED WITH BOLTS<br>Trucks 1214 / 1218 / 1318 / 1418 / 1420 / 1614 / 1615 /<br>1618 / 1620 / 1621 / 1622 / 1714 / 1718 / 1720 / 1721 /<br>1723 / 2314 / 2318 / 2418 / 2420<br>Chassis w / bus OF<br>113 / 1115 / 1215 / 1315 / 1316 / 1318 / 1320 / 1721 /<br>OH 1315 / 1316 / 1318 / 1320 / 1721 / OH 1315 / 1316 /<br>1319 / 1419 / 1420 / 1521 / 1620 / 0371 / UL-ULP 1214 /<br>1418 / 1718 / 1721 / 2414 / 2418<br>97.5MM |
| OM11     | 355 030 6701                                                                              | OM 355                       | 6 CYL     | NORMAL ASPIRATED<br>8 BOLT HOLES - 1 DOWEL                                                                                                                                                                                                                                                                                                                                                                                                         |
| OM12     | 355 030 6801<br>345 030 1202                                                              | OM 355T                      | 6 CYL     | NORMAL ASPIRATED<br>12 BOLT HOLES - 1 DOWEL                                                                                                                                                                                                                                                                                                                                                                                                        |
| OM13     | 345 030 0702                                                                              | OM 355/6                     | 6 CYL     | NORMAL ASPIRATED                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| OM14     | 442 030 0801 / 442 030 0301<br>442 030 0901 / 442 030 0401                                | OM 442 A / LA                | 8 CYL     | V8 (MOTOR N° 470879>)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| OM15     | 422 030 4401 / 422 0303 701<br>422 030 4301                                               | OM 442 A / LA                | 8 CYL     | V8 (MOTOR N°>470878)                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OM18     | 651 030 1201 / 651 030 0401                                                               | OM 651                       | 4 CYL     | 8 COUNTERWEIGHTS<br>STROKE 99.00 MM EURO - 3                                                                                                                                                                                                                                                                                                                                                                                                       |
| OM18A    | 651 030 2501                                                                              | OM 651                       | 4 CYL     | 4 COUNTERWEIGHTS<br>STROKE 99.00 MM EURO - 5                                                                                                                                                                                                                                                                                                                                                                                                       |
| OM24     | 457 030 0201 / 457 031 0001<br>496 030 0001 / 466 030 0501                                | OM 457 LA / H LA /<br>OM 458 | 6 CYL     | 8 INTEGRATED COUNTERWEIGHTS<br>MOD. AXOR I Engines OM 447 and OM 457<br>Trucks ATRON 1635 / AXOR 1933 / 2036 / 2041 / 2533 /<br>2536 / 2541 / 2544 / 2641 / 2644 / 2831 / 3341 / 3344 /<br>4141 / 4144<br>Older trucks: L 2635 / LS 1634 / 1935 / 1938/ 1941 /<br>1944 / 1945 / 2638<br>Chassis w / bus: 500 -MA - AU - UDA / MDA - RS - RSD /<br>OH / OL 1635 / 0371 / 0400 - MTU /<br>STEMAC: Generators I Stroke 155mm                          |
| OM25     | 457 030 0401                                                                              | OM 457                       | 6 CYL     | 94 mm CRANKPIN                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OM28     | 904 030 0701 / 904 030 0801<br>904 030 1101                                               | OM 904                       | 4 CYL     | Stroke 130.0 mm / Rear Tip Diameter,<br>Gear/ Flywheel Mount, 103.0 mm                                                                                                                                                                                                                                                                                                                                                                             |

**MERCEDES – BENZ**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                                                                       | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|----------------------------------------------------------------------|
| OM29     | 904 030 0301 / 904 030 0702                                                                                                                             | OM 904         | 4 CYL     | Stroke 130.0 mm 1 Rear Tip Diameter, Gear / Flywheel Mount, 98.0 mm  |
| OM30     | 924 030 0101<br>924 030 0601                                                                                                                            | OM 924         | 4 CYL     | Stroke 136.0 mm 1 Rear Tip Diameter, Gear / Flywheel Mount, 103.0 mm |
| OM31     | 906 030 0402 / 906 030 0701<br>906 030 0501 / 906 030 0502<br>906 030 0602 / 906 030 0402<br>906 030 1102 / 906 030 0801<br>906 030 1302 / 906 030 0401 | OM 906         | 6 CYL     | Stroke 130.0 mm 1 Rear Tip Diameter, Gear / Flywheel Mount, 103.0 mm |
| OM32     | 906 030 0301 / 906 030 0701<br>906 030 0702 / 906 030 0801<br>906 030 0902                                                                              | OM 906         | 6 CYL     | Stroke 130.0 mm 1 Rear Tip Diameter, Gear / Flywheel Mount, 98.0 mm  |
| OM33     | 926 030 0201 /<br>926 030 0701                                                                                                                          | OM 926         | 6 CYL     | Stroke 136.0 mm 1 Rear Tip Diameter, Gear / Flywheel Mount, 103.0 mm |
| OM34     | 541 030 2101                                                                                                                                            | OM 501         | 6 CYL     | Stroke 150.0 mm<br>6 - cylinder "V" engine                           |
| OM35     | 471.030.0401 / 471.031.0701                                                                                                                             | OM 471         | 6 CYL     |                                                                      |
| OM36     | 472.031.0301                                                                                                                                            | OM 472         | 6 CYL     |                                                                      |

**MITSUBISHI**
**FORGED**

| REF. NO. | ORIGINAL PART NO.   | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                            |
|----------|---------------------|----------------|-----------|----------------------------------------------------------------------------------|
| MIT01    |                     |                | 4 CYL     | MITSUBISHI COLT<br>T-120M-111 JAPAN                                              |
| MIT02    | ME013667            | 3.3 L          | 4 CYL     | MITSUBISHI 4D31 / 4D32<br>CANTER FE 444, FE 304, FB 211<br>FE Turbo Diesel Truck |
| MIT03    | MD102601            | 2.5 L          | 4 CYL     | 4D55 L - 00 OLD MODEL<br>PAJERO / L200 / L400                                    |
| MIT04    | MD374408 / MD374409 |                | 4 CYL     | 4D56 L - 300 2.5 NEW MODEL                                                       |
| MIT05    | ME018297            |                | 4 CYL     | 4D34A / 4D33 CANTER FE 659                                                       |
| MIT06    | ME01734             |                | 4 CYL     | 4D34T / 4D35T CANTER TURBO<br>FE 659 T                                           |
| MIT07    | ME013668            |                | 4 CYL     | 4D34 CANTER HD FE 449, FE<br>635, FE 639                                         |
| MIT08    | 1100A028 / 1100A135 | 2.5 L          | 4 CYL     | 4D56U L200                                                                       |



**PERKINS**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                                                                                                                                                             | MOTOR & ENGINE                                        | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MF01     | 026005MI / 736532M91 / 31312419 / 84402 / 31312436 / 31312441 / SD260034 / U5BG0031 / 31312700 / ZZ90084 / 3637454M91 / ZZ90116 / ZZ90148                                                                                                     | 3.152 / D3.152                                        | 3 CYL     | KEYED NOSE ROPE SEAL<br>135 PERKINS (3.152)<br>F : 35, 135, 148, 254, 230, 240, 250, 254, 255, 350, 353, 355, 360, 363, 550 PERKINS : A3, 152, AD 152                                                                                                                                                                      |
| MF01A    | 84399<br>31312437                                                                                                                                                                                                                             | 3.152                                                 | 3 CYL     | SPLINED NOSE ROPE SEAL                                                                                                                                                                                                                                                                                                     |
| MF01 PL  | ZZ90148 / ZZ90116 / 3638309M91 / 84402                                                                                                                                                                                                        | 3.152 / D3. 152                                       | 3 CYL     | PERKINS 3.152 ROPE SEAL WITH COUNTER WEIGHT, GEAR, WASHERS & SCREW.                                                                                                                                                                                                                                                        |
| MF02     | 026053M / 94458 / 31312701 / 94464 / 31312707 / U5BG0027/ 31315135 / ZZ90078 / 3637410M91 / ZZ90150 / ZZ90122 / 637399M91                                                                                                                     | 3.152                                                 | 3 CYL     | KEYED NOSE LIP SEAL                                                                                                                                                                                                                                                                                                        |
| MF02A    | 31312702 / 31312704 / 94463 / 94459 / Zz90117                                                                                                                                                                                                 | 3.152                                                 | 3 CYL     | SPLINED NOSE LIP SEAL                                                                                                                                                                                                                                                                                                      |
| MF02PL   | ZZ90148 / ZZ90116 / 3638309M91 / 84402                                                                                                                                                                                                        | 3.152                                                 | 3 CYL     | KEYED NOSE LIP SEAL WITH COUNTER WEIGHT GEAR, WASHERS & SCREW.                                                                                                                                                                                                                                                             |
| MF03     | 026008M1 / 3638473M91 / 31315135 / 742742M91 / 31315138 / 84407/31315145 / 85811 / 31315148/92484 / 31315167 / 92485 / 31315184 / U5BG0017 / ZZ90121 / U5BG0028 / 3637399M91 / ZZ900201 / 84440 / 31315174 / 367752M91 / 737309M91 / 74274M91 | 4.203 / D4.203<br>A4.192                              | 4 CYL     | KEYED NOSE ROPE SEAL<br>MF 65, 158, 165, 765, 155, 650<br>PERKINS A4.203, AD4.203 Landini, Agricultural tractor prima series 6000 DT, 6000R, 6000 Special, 7000 R. Crawler Tractor C6000 - Cingolati Series MF TRACTOR 7 00 Series 155, 158, 165, 200 Series - 260 Pre 100 series (1947 - 65) Industrial Tractor - 50      |
| MF03A    |                                                                                                                                                                                                                                               | 4.203 / D4.203                                        | 4 CYL     | SPLINED NOSE / ROPE SEAL                                                                                                                                                                                                                                                                                                   |
| MF04     | 026032M1 / 94441 / 31315182 / 94454 / 31315784 / 94455 / 742344M91 / ZZ90111 / 026033 / 3637458M91 / 31315661                                                                                                                                 | 4.203 / D4.203 /<br>A4.203                            | 4 CYL     | KEYED NOSE LIP SEAL<br>MF-65, 158, 165, 765, 155 (100 Series)<br>MF INDUSTRIAL 50 MF LANDINI R - DT6000<br>Pre 100 Series (1947-65) - 65, 765 Industrial tractor - 50                                                                                                                                                      |
| MF04A    | 026032M1 / 94441 / 31315182 / 94454 / 31315184 / 94455 / 31315184 / ZZ90111 / 742344M91                                                                                                                                                       | 4.203 / D4.203 /<br>A4.203                            | 4 CYL     | SPLINED NOSE / LIP SEAL                                                                                                                                                                                                                                                                                                    |
| MF05     | 31315911 / 31315912 / 85721 / 736829M91 / ZZ90108 / 3637789M91 / ZZ90093 / 84422                                                                                                                                                              | 4.248 / 4.236 /<br>1004 / 1004.4 /<br>1004T / 1004.4T | 4 CYL     | SPLINED NOSE ROPE SEAL (LIGHT WEIGHT)<br>MF 168, 175, 265, 274, 274S, 274SK, 275, 285, 284 - 4S, 365, 373, 375, 377, 383, 387, 565, 575, 675, 3050 MF LANDINI R - DT7500, R - DT6550, C6830, R - DT7550, R - DT7530F PERKINS 4.236, MF COMBINES 440, MF INDUSTRIAL 50, 50B, 50E / EX, 50H / HX 'S' SERIES (Gear Available) |
| MF05A    | 3637789M91 / U5BG0054 / 31315911 / 31315912 / 84422 / 85721 / ZZ90093 / 84421 / 94434 / 7340893M1 / 31315851 / 68050 / 736829M91 / 3639541M1 / 85821 / 31315993 U5BG0053 / ZZ90108                                                            | 4.236 / 4.248                                         | 4 CYL     | SPLINED NOSE ROPE SEAL (HEAVY WEIGHT)<br>MF 178, 185, 188, 194 - F, 285, 294S - 4S, 393, 397 MF INDUSTRIAL 50E / EX, 60H, 60H "S" SERIES MF LANDINI R - DT8500, C7800, C7830 PERKINS A4.248, 4.248 (Gear Available)                                                                                                        |

# PERKINS

# FORGED

| REF. NO. | ORIGINAL PART NO.                                                                                                                                     | MOTOR & ENGINE                       | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MF06     | 3637401M91 / U5BG0024 / 31315987 / 31315982 / 31315991 / 94435 / 94436 / ZZ90082 / ZZ90081 / ZZ90143 741747ML                                         | 4.236 / 4.248                        | 4 CYL     | SPLINED NOSE LIP SEAL (HEAVY WEIGHT)<br>MF 265, 274, 274S, 274SK, 275, 285, 284S - 4S, 365373, 375, 377, 383, 387, 565, 575, 675, 3050, 194 - F, 285, 294 - S - 4S, 393, 397178, 185, 188<br>MF LANDINI R - DT6550, C6830, R - DT7550, R - DT7530F, MF LANDINI R - DT8500, PERKINS A4.236, PERKINS A4.248, 4.248, MF COMBINES - 440, MF INDUSTRIAL 50, 50B, 50E/EX, 50H/HX, 50H/HX 'S' SERIES. MF INDUSTRIAL 50E/EX, 60H, 60H 'S' SERIES (Gear Available) |
| MF06A    | ZZ90202 / ZZ90081 / 364040M91 / 3665768M2                                                                                                             | 4.236 / 4.248                        | 4 CYL     | (HEAVY WEIGHT)<br>SPLINED NOSE LIP SEAL<br>FLANGE: 12 HOLES (Gear Available)                                                                                                                                                                                                                                                                                                                                                                              |
| MF07A    | U5BG0026 / 31315664                                                                                                                                   | 4.236 / 4.248                        | 4 CYL     | SPLINED NOSE ROPE SEAL, (LIGHT WEIGHT) 3 HOLES FOR PULLEY FITTING ON NOSE (Gear Available)                                                                                                                                                                                                                                                                                                                                                                |
| MF08     | 31315631 / 94433 / 31315641 / 94434 / 31315664 / 85821 / U5BG0052 / 26046 / 31315871 / 31315881 / ZZ90122 / 736829M91 / 31315881 / 741750ML / ZZ90082 | 4.236 / 4.248                        | 4 CYL     | SPLINED NOSE LIP SEAL (LIGHT WEIGHT)<br>MF 158, 175, MF LANDINI R-DT7500 (Gear Available)                                                                                                                                                                                                                                                                                                                                                                 |
| MF08A    | U5BG0026 / 31315664                                                                                                                                   | 4.248 / 4.236<br>100.4 / Phaser 1004 | 4 CYL     | SPLINED NOSE LIP SEAL (LIGHT WEIGHT)<br>3 HOLES FOR PULLEY FITTING (Gear Available)                                                                                                                                                                                                                                                                                                                                                                       |
| MF08T    | ZZ90119 / ZZ90202                                                                                                                                     | 1004 Phaser Series                   | 4 CYL     | SPLINED NOSE LIP SEAL (LIGHT WEIGHT)<br>3 HOLES FOR PULLEY FITTING<br>LONG NOSE (Gear Available)                                                                                                                                                                                                                                                                                                                                                          |
| MF09     | 85719 / ZZ90100 / Z90076 / 3637457M91 / 737189M91                                                                                                     | 4.212 / D4.212                       | 4 CYL     | SPLINED NOSE ROPE SEAL<br>MF Tractor 100 Series (Italian)<br>174, 165, 174C Landini Tractor<br>500 series 6500                                                                                                                                                                                                                                                                                                                                            |
| MF10     | 94430 / ZZ90077 / 3637453M91 / 742873M91 / 94430                                                                                                      | 4.212 / D4.212                       | 4 CYL     | SPLINED NOSE LIP SEAL                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MF 11    | 31323146 / 84433 / 026020N                                                                                                                            | 6.305                                | 6 CYL     | KEYED NOSE LIP SEAL                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MF 11 L  |                                                                                                                                                       | 6.305                                | 6 CYL     | KEYED NOSE LIP SEAL                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MF12     | U5BG0037 / ZZ90113 / 3637 408M91                                                                                                                      | 6.354 - 4 /<br>6.312 - 4             | 6 CYL     | KEYED NOSE ROPE SEAL<br>MF 399, 699, 1014, 1114, 1134, 1250, 2620, 2640, 2645, 2680, 2685, 2720, 2725, 3080, 3090, 3650<br>MF COMBINES 24, 27, 29, 29XP, 31, 530, 535, 560, 565, 620, 625, 660, 665, 750, 800, 805, 825<br>MF LANDINI R-DT1000, R-DT100005 R-DT12500, R-DT1300 MKII R-DT 14500 MKII<br>PERKINS A6.354.4, A6.372.4                                                                                                                         |
| MF13     | 31314021 / 68076 / ZZ90086 / 3637404M91 / ZZ90113 / 748751M1                                                                                          | 6.354 -4 A6.<br>354.4 T6.<br>354.4   | 6 CYL     | KEYED NOSE LIP SEAL<br>MF 2705, 3525, 3545, 3630, 3650<br>MF COMBINES 550, 750, 760, 850, 860<br>MF LANDINI R-DT1 4500,<br>PERKINS A6.354.4, T6.354.4                                                                                                                                                                                                                                                                                                     |

**PERKINS**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                                                                                                                                                                                                                                                          | MOTOR & ENGINE                             | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                             |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MF13A    | U5BG0035 / 313H021 / 3637019M91 / 3131H024                                                                                                                                                                                                                                                                 | 6.354 - 4<br>1006 / 1006T<br>Phaser Series | 6 CYL     | KEYED NOSE LIP SEAL<br>3 HOLES FOR PULLEY FITTING                                                                                                                                                                 |
| MF14     | 3131H022 / ZZ90105                                                                                                                                                                                                                                                                                         | 6.354 - 4                                  | 6 CYL     | NITRADED<br>KEYED NOSE LIP SEAL                                                                                                                                                                                   |
| MF15     | 31322316 / 31322317 / 31325016 / 31322301 / 31325019 / 31322302 / 31325022 / 31322321 / 31325023 / 31322322 / 31325025 / 31322351 / 31325028 / 31322421 / 31325036 / 3132320V / 31325042 / 31323207 / U5BG0045 / 31323251 / ZZ90089 / 31322361 / 31322363 / 31322364 / 68063 / 85727 / 742150M1 / 736902M1 | 6.354 - 2                                  | 6 CYL     | SPLINED NOSE ROPE SEAL<br>MF 1100, 1014, 1200<br>MF COMBINES 500, 510, 515, 520, 525, 620, 625<br>MF LANDINI R - DT9500, R - DT10000, R - DT10005<br>PERKINS A6.354, PERKINS A6.354.1, A6.354.2, A6.372, A6.372.1 |
| MF16     | 31323261 / U5BG0048 / 31323262 / ZZ90090 / 94443 / 94460 / 94468 / 742160M1 / 742161M1                                                                                                                                                                                                                     | 6.354 - 4<br>A6.354.4<br>T6.354.4          | 6 CYL     | SPLINED NOSE LIP SEAL<br>MF 1100, 1014, 1200<br>MF COMBINES 500, 510, 515, 520, 525, 620, 625<br>MF LANDINI R - DT9500, R - DT10000, R - DT10005<br>PERKINS A6.354, PERKINS A6.354.1 A6.354.2, A6.372, A6.372.1   |
| MF17     | 115256750, 115256990, P770, P771                                                                                                                                                                                                                                                                           | 104.22 / 404C.22<br>404C.22T               | 4 CYL     | Stroke : 3.54331" (90.000mm)<br>Rod : 2.04582 - 2.04626" (51.964 - 51.975mm)<br>Main : 2.67550 - 2.67597" (67.957 - 67.970mm)<br>Neck : Tapered, Threaded,<br>Flange : Lip Seal                                   |
| MF17A    | 115256750, 115256990                                                                                                                                                                                                                                                                                       | 104.22 / 404C.22<br>404C.22T               | 4 CYL     | Stroke : 3.9370" (100.00Dmm)<br>Rod : 2.04582 - 2.04626" (51.964 - 51.975mm)<br>Main : 2.67550 - 2.67597" (67.957 - 67.970mm)<br>Neck : Tapered, Threaded,<br>Flange : Lip Seal                                   |
| MF18     | 4181V017                                                                                                                                                                                                                                                                                                   | 1103 / 1003B - 33 / 103C - 33T             | 4 CYL     | Stroke : 5.000" (127.000mm)<br>Rod : 2.4986 - 2.4994" (63.466 - 63.486mm)<br>Main : 2.9982 - 2.9990" (76.155 - 76.176mm)<br>Neck : Splined, 3 - Bolt,<br>Flange : 6 - Bolt, 1 - Dowel, Lip Seal                   |
| MF19     | ZZ90222, ZZ90239                                                                                                                                                                                                                                                                                           | 1104                                       | 4 CYL     | Stroke : 5.000" (127.000mm)<br>Rod : 2.4986 - 2.4994" (63.466 - 63.486mm)<br>Main : 2.9982 - 2.9990" (76.155 - 76.176mm)<br>Neck : Splined, 3 - Bolt,<br>Flange : 10 - Bolt, 1 - Dowel, Lip Seal                  |
| MF20     | 4225497M1, ZZ90213, ZZ90228, 3637019M1                                                                                                                                                                                                                                                                     | VK1106 - E60TA                             | 6 CYL     | Stroke : 5.000" (127.000mm)<br>Rod : 2.4986 - 2.4994" (63.466 - 63.486mm)<br>Main : 2.9982 - 2.9990" (76.155 - 76.176mm)<br>Neck : 3 - Bolt, 1 - Key,                                                             |



**ROMANIA / UTB / UNIVERSAL**
**FORGED**

| REF. NO.                 | ORIGINAL PART NO.                                                        | MOTOR & ENGINE                                        | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                       |
|--------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UTB 01                   | 10303010                                                                 | 650                                                   | 4 CYL     | SMALL FLANGE ROPE SEAL                                                                                                                                                                                                                                                      |
| UTB 02                   | 10303020                                                                 | 660                                                   | 4 CYL     | BIG FLANGE LIP SEAL                                                                                                                                                                                                                                                         |
| UTB 03                   | D03-C08-A                                                                | 70 HP, M-85, 17,<br>C-75, 17                          | 4 CYL     | MTZ - 70 / UMZ                                                                                                                                                                                                                                                              |
| UTB 04<br>M12<br><br>M14 | Z 1-100501143                                                            | T-25                                                  | 2 CYL     | M - 12 THREAD<br><br>M - 14 THREAD                                                                                                                                                                                                                                          |
| UTB 05                   | D-371005011B                                                             | T - 40                                                | 4 CYL     | INTEGRATED COUNTER WEIGHT.                                                                                                                                                                                                                                                  |
| UTB 06                   | 240-1005020-B1<br>240-1005015, 240-1005015-B<br>242-1005015, 243-1005015 | 80 H.P<br>D-240, D242,<br>D-243, D-244                | 4 CYL     | MTZ - 80<br>MTZ - 82                                                                                                                                                                                                                                                        |
| UTB 07                   | Z0-04 C9                                                                 | SMD-20                                                | 4 CYL     | JUMS 6M / SMD - 20 / DT 75<br>JOBS01 RUSSIAN, UKRAINE                                                                                                                                                                                                                       |
| UTB 14                   | 11503020 / 115030040<br>651878                                           |                                                       | 3 CYL     | MODEL NOS. 350, 353, 445, 450,<br>453, 500, 530, 533                                                                                                                                                                                                                        |
| UTB 15                   | 260-1005015                                                              | D260.1, D260.2,<br>D260.4, D260.14,<br>D266.4, D260.9 | 6 CYL     | MTZ (MTZ -122 1, MTZ -1523),<br>MAZ, KZS, Amkador                                                                                                                                                                                                                           |
| UTB 16                   | 245.9-1005015-08                                                         | D-245 Euro 3<br>(D245.9E3, D245.7E3)                  | 4 CYL     | without splines, 3 dowels, 7 flywheel holes (7 bolts)<br>ZIL (5301), GAZ, PAZ - 4230 (cone)                                                                                                                                                                                 |
| UTB 17                   | 245-1005015 /<br>245-1005015-A                                           | D 245                                                 | 4 CYL     | MTZ - 892, MTZ - 92P, MTZ - 1025, MTZ -100, MTZ - 900,<br>MTZ - 822, MTZ - 922, MTZ - 923, MTZ -1 005, MMZ - d-245,<br>MMZ - d - 245 - 12, MMZ -d - 245 - 30e2 - 471,<br>MMZ - d - 245 - 30e2-469, MMZ - d-245 -5c-53 - 92 1-2,<br>MMZ - d - 245 - 5c-53, MMZ - d - 245 - 9 |
| UTB 18                   | 5340.100501                                                              |                                                       | 4 CYL     | YaMZ - 534 Autodiesel                                                                                                                                                                                                                                                       |
| UTB 19                   | 536.100501                                                               |                                                       | 6 CYL     | YaMZ - 536 Autodiesel                                                                                                                                                                                                                                                       |

**SCANIA**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                 | MOTOR & ENGINE                     | CYLINDERS | DESCRIPTION / REMARKS                                                                                         |
|----------|-----------------------------------|------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------|
| SC01     | 342060 / 312739 / 1308467         | DS 11-12-13<br>D / DN / DS / DSC11 | 4 CYL     | T113 / R113 / H112 / HS112 / HW112 / L111 / L110 /<br>112 / 113 / 114 / BR115 / BR116 / B111<br>Stroke 145 mm |
| SC02     | 1423374 / 142156 1743584 / 574410 | DSC 12<br>DC 12                    | 6 CYL     | P - R - T 380 / 420 / 440 / 470 / K124                                                                        |

**SONALIKA**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| SO01     | SK303521          |                | 3 CYL     | Stroke 118 mm         |
| SO02     | EP403321          |                | 4 CYL     | Stroke 118 mm         |

**STEYR**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS              |
|----------|-------------------|----------------|-----------|------------------------------------|
| ST01     | 4080020017        |                | 4 CYL     | STEYR 8073 / 768<br>WD408.40       |
| ST02     | 3080020029        |                | 3 CYL     | STEYR 8043 / 8053<br>WD 308 - 46.3 |
| ST03     |                   |                | 3 CYL     | 360 KOMPACT                        |

**STEYR**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                       | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                            |
|----------|-----------------------------------------|----------------|-----------|--------------------------------------------------|
| SZ01     | 12221-75101 / 1221-75102<br>12221-75104 | SJ - 410       | 4 CYL     | SUZUKI 1000cc ENGINE MARUTI<br>GYPSY SK410 CARRY |
| SZ02     | 12221-73001 / 1221-78401                | LJ - 80        | 3 CYL     | SUZUKI 800cc<br>ALTO CARRY, SUZUKI F8            |

**TATA**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS |
|----------|-------------------|----------------|-----------|-----------------------|
| TA01     |                   |                | 6 CYL     | TATA 1516 / 1612      |
| TA02     |                   |                | 6 CYL     | TATA 1510 / 1312      |
| TA03     |                   |                | 6 CYL     | TATA 697              |
| TA04     |                   |                | 4 CYL     | TATA 609 / 709 / 1109 |
| TA05     |                   |                | 4 CYL     | TATA 608 / 497        |
| TA06     |                   |                | 6 CYL     | TATA 1210 / 692       |
| TA07     |                   |                | 4 CYL     | TATA 407              |

**TOYOTA**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                   |
|----------|-------------------|----------------|-----------|-----------------------------------------|
| TY01     |                   |                | 4 CYL     | Bandeirant 1973 to 1989<br>LAND CRUISER |
| TY02     |                   |                | 4 CYL     | Bandeirant 1989 to 1994                 |

**URSUS**
**FORGED**

| REF. NO. | ORIGINAL PART NO.      | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                   |
|----------|------------------------|----------------|-----------|---------------------------------------------------------------------------------------------------------|
| UR360A   | 46.40399.0<br>3S- 4003 |                | 4 CYL     | URSUS 360 (ZETOR IYPE)<br>6 HOLES ON REAR- C 360<br>Available as integrated and external counter weight |

**VOLVO**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                                                | MOTOR & ENGINE             | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                         |
|----------|------------------------------------------------------------------|----------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VO01     | 1545657 / 467709<br>6888669 / 819449E<br>8966716                 |                            | 6 CYL     | TD and THD 100 / 101 / 102 engines<br>Trucks N 10/NL 280 / 310 / 320 / 340<br>Chassis w / bus B 58 / B 10M / F 10 - N10<br>Stroke 140 mm Flange with 10 holes |
| VO02     | 812 67 80<br>819 43 04 (OLD)<br>819 44 56<br>812678              |                            | 6 CYL     | TD 101 / 102 / 103 THD 102<br>TD motors 102 and THD S<br>Trucks NL 310 / 320 / 340<br>Chassis w / bus B 58 / B 10M<br>Flange with 14 holes Stroke 140mm       |
| VO03     | 468617 / 470681<br>688 87 40 / 470681 - 8                        |                            | 6 CYL     | TD 120, TD 121, TD 122, TD 123 (>186746 ENGINES)<br>Trucks N / NL 12 - EDC 360 / 420<br>Chassis p / B bus 12M, F12 - N12<br>Flange with 10 holes Stroke 150mm |
| VO04     | 612 55 83 / 819 37 27<br>478676 / 8125583                        |                            | 6 CYL     | TD 122 / TD 123 engines<br>ENGINE NO (186747>)<br>Trucks NL 12 360 / 360 / 420 EDC<br>Chassis p / B bus 12M, F12 - N12<br>Flange with 14 holes Stroke 150 mm  |
| VO05     | 1547468, 20411189,<br>20533089, 8418524                          | D12 / D12A /<br>D12C / D12 | 6 CYL     | Stoke 150mm<br>FH12 - 420 CV / NH 380 / 420 / 460 / B12                                                                                                       |
| VO06     | 20486222, 22235114,<br>21230583, 85000536,<br>20486221, 22697519 | D13 / D13C                 | 6 CYL     | Stroke 158 mm<br>FH / FMX                                                                                                                                     |

**WILLYS JEEP**
**FORGED**

| REF. NO. | ORIGINAL PART NO. | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                         |
|----------|-------------------|----------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WJ01     | 647018            |                | 4 CYL     | COUNTER WEIGHT<br>FASTENED WITH BOLTS<br>CJ3A, CJ3B, CJ5, CJ6, M38, M38A, DJ3I,<br>Station Wagon, 4X463, 473,<br>4X473, 475, 2X475, 4X475,<br>Trucks 4WO, 473-440, 475-4WO, FC150, L134, F134 |



**ZETOR**
**FORGED**

| REF. NO. | ORIGINAL PART NO.                    | MOTOR & ENGINE | CYLINDERS | DESCRIPTION / REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|--------------------------------------|----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZT01     | 20010301                             |                | 2 CYL     | ZETOR 2011 CZECHOSLOVAKIA<br>Available as integrated and external counter weight                                                                                                                                                                                                                                                                                                                                                                                  |
| ZT02     | 30010301                             |                | 3 CYL     | ZETOR 3011 CZECHOSLOVAKIA<br>Available as integrated and external counter weight                                                                                                                                                                                                                                                                                                                                                                                  |
| ZT03     | 40010301 /<br>40010399 /<br>72010399 |                | 4 CYL     | ZETTOR 4011 CZECHOSLOVAKIA<br>UR1 Series<br>4011, 4320, 4321, 4340, 4341, 4511, 4611, 5320, 5321,<br>5340, 5341, 5511, 5516, 5545, 5611, 5645, 5647, 5711,<br>5718, 5745, 5748, 5911, 5945, 6011, 6045, 6211, 6245,<br>6320, 6321, 6340, 6341, 6711, 6718, 6745, 6748, 6911,<br>6945, 7011, 7045, 7045H, 7211, 7245, 7245H, 7320,<br>7321, 7340, 7341, 7711, 7745.<br>Available in 110 / 120 mm stroke.<br>Available as integrated and<br>external counter weight |
| ZT03HD   | URSUS - C 385                        |                | 4 CYL     | HEAVY DUTY (URSUS II)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ZT04     | URSUS - C 910                        |                | 6 CYL     | ZETOR INTEGRATED<br>COUNTER WEIGHT C 380                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ZT04HD   |                                      |                | 4 CYL     | HEAVY DUTY (URSUS II)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ZT05     | 78003001                             |                | 4 CYL     | CRANKSHAFT PROXIMA                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ZT06     | 96003001                             |                | 4 CYL     | CRANKSHAFT PROXIMA                                                                                                                                                                                                                                                                                                                                                                                                                                                |

# GUARANTEE POLICY

English:- Guarantee



We guarantee that all the goods that have been manufactured by us are free from defects in material and workmanship. We further guarantee that all the parts that are defective in material and workmanship are repairable and/or interchangeable. Any replaced parts will be our property. The obligation under this warranty does not include the refunding of these losses - Loss of profit, assembly expenses, customs charges, inland freight, all local charges etc.. We shall not be responsible for the wear out and / or the defects that arise in the transit and/or in the case that any alteration is carried out on the goods shipped by us, we will not be responsible for the defects weather it is due to the alteration or not. We shall also not be liable for the treatment of the shipped goods that is not in accordance with our regulations regarding its use. We further warranty that all our goods are interchangeable with the corresponding parts offered by the Original Equipment Manufacturer. All claims have to be submitted to us in writing within 12 months from the shipment of the goods and material may not be returned to us without our prior consent. In any case, they have to be returned to us free of charge and freight charges will only be returned if the claim is found justified after inspection of the goods by our quality control department.

Español:- Garantía



Garantizamos que todas las mercancías que han sido fabricadas por nosotros están libres de defectos en material y mano de obra. Garantizamos más lejos que todas las piezas que son defectuosas en material y mano de obra son reparables y/o permutables. Cualquier pieza substituida será nuestra característica. La obligación bajo esta garantía no incluye consolidar de estas pérdidas - pérdida de beneficio, de costos del ensamblaje, de cargas de costumbres, de carga interior, de todas las cargas locales etc.. No seremos responsables del desgaste hacia fuera y/o los defectos que se presentan en el tránsito y/o en el caso que cualquier alteración está realizada en las mercancías enviadas por nosotros, no seremos responsables de los defectos le restitimos somos debido a la alteración o no. También no seremos obligados para el tratamiento de las mercancías enviadas que no está de acuerdo con nuestras regulaciones con respecto a su uso. Fomentamos la garantía que todas nuestras mercancías son permutables con las piezas correspondientes ofrecidas por el fabricante de equipos originales. Todas las demandas tienen que ser sometidas a nosotros en escribir en el plazo de 12 meses del envío de las mercancías y el material no se puede volvernos sin nuestro consentimiento previo. En cualquier caso, tienen que ser vueltas gratuitamente y las cargas de carga serán vueltas solamente si la demanda se encuentra alineada después del examen de las mercancías por nuestro departamento del control de calidad.

Deutsch:- Garantie



Garantieren wir, daß alle Waren, die von hergestellt worden sind uns, von den Defekten Material und Kunstfertigkeit frei sind. In wir weiter garantieren, daß alle Teile, die Material und Kunstfertigkeit defekt sind, reparabel und/oder auswechselbar sind. Alle mögliche ersetzten Teile sind unsere Eigenschaft. Die Verpflichtung unter dieser Garantie umfaßt nicht das Zurückerstaten dieser Verluste - Verlust des Profites, der Versammlung Unkosten, der Zollgebühren, der inländischen Fracht, aller Ortsgebühren etc.. Wir sind nicht für die Abnutzung heraus verantwortlich und/oder die Defekte, die bei dem Transport und/oder im Fall entstehen, daß jede mögliche Änderung auf den Waren durchgeführt wird, die von uns versendet werden, sind wir nicht für die Defekte verwittern sie liegen an der Änderung oder nicht verantwortlich. Wir auch sind nicht für die Behandlung der versendeten Waren verantwortlich, die nicht mit unseren Regelungen betreffend sind seinen Gebrauch übereinstimmt. Wir fördern Garantie, daß alle unsere Waren mit den entsprechenden Teilen auswechselbar sind, die durch den Originalgerätehersteller angeboten werden. Alle Ansprüche müssen bei uns beim Schreiben innerhalb 12 Monate vom Versand der Waren eingelegt werden und Material kann möglicherweise nicht zu uns ohne unsere vorherige Zustimmung zurückgebracht werden. In jedem möglichen Fall müssen sie zu uns kostenlos zurückgebracht werden und Frachtgebühren werden nur zurückgebracht, wenn dem Anspruch ausgeschlossen nach Kontrolle der Waren durch unsere Qualitätskontrolleabteilung gefunden wird.

Русский: Гарантия.



Мы гарантируем, что все наши изделия произведены без каких-либо дефектов металла и производства. В случае обнаружения дефекта металла или производства производится замена детали или ее ремонт. Замененные дефектные детали перейдут в собственность завода. Обязательства по данной гарантии не распространяются на следующие случаи - потеря дохода, расходы на установку, таможенные платы, транспортировка внутри страны покупателя, все местные выплаты и т.д. Мы также не несем ответственность за любые типы повреждений, полученные в результате транспортировки, неправильной погрузки. Мы подтверждаем, что все произведенные заводом детали заменяемы на соответствующие детали от производителя техники. Все жалобы должны быть высланы нам в течение 12 месяцев с даты погрузки, дефектные детали не могут быть высланы нам без нашего предварительного согласия. В любом случае, дефектные детали должны быть доставлены на завод бесплатно и транспортные издержки будут возвращены покупателю в том случае, если жалоба будет подтверждена после проверки изделий заводским департаментом качества.

Française:- Garantie



Nous garantissons que toutes les marchandises qui ont été fabriquées par nous sont exemptes des défauts dans le matériel et l'exécution. Nous garantissons plus loin que toutes les pièces qui sont défectueuses dans le matériel et l'exécution sont réparables et/ou interchangeables. Toutes les pièces remplacées seront notre propriété. L'engagement sous cette garantie n'inclut pas le remboursement de ces pertes - manque à gagner, des dépenses d'assemblage, des frais de douane, le fret intérieur, tous frais locaux etc.. Nous ne serons pas responsables de l'usure dehors et/ou les défauts qui surgissent dans le passage et/ou dans le cas que n'importe quel changement est effectué sur les marchandises expédiées par nous, nous ne serons pas responsables des défauts lui survient est dû au changement ou pas. Nous ne serons également pas responsables du traitement des marchandises expédiées qui n'est pas conforme à nos règlements concernant son utilisation. Nous promouvons la garantie que toutes nos marchandises sont interchangeables avec les pièces correspondantes offertes par fabricant. Toutes les réclamations doivent être soumises à nous par écrit dans les 12 mois de l'expédition des marchandises et le matériel ne peut nous être retourné sans notre assentiment préalable. De toute façon, elles doivent nous être retournées gratuitement et le coût du fret sera seulement retourné si la réclamation est trouvée justifiée après inspection des marchandises par notre service de contrôle de qualité

Turkish : Garanti Sartları



Tarafimizdan üretilen tüm malların malzeme ve işçilik açısından kusursuz olduğunu garanti ederiz. Malzeme ve işçilikte hatalı olduğu tesbit edilen malların onarımını ve/veya birbiriyle değişimini de garanti ederiz. Destinirilen mallar bize aittir. Bu garanti kapsamına su kayıplar girmez: Kar Kaybı, montaj masrafları, gümrük ücretleri, yurtiçi navlun, tüm yerel ücretler v.s.. Tarafimizdan Yüklənmiş mallarda nakliye esnasında meydana gelen hasar ve/veya hatalardan ve/veya değışikliğe uğramış mallardan sorumlu olmayacağız. Gönderilmiş olan malların kullanımı esnasında meydana gelen hasar ve/veya hatalardan ve/veya değışikliğe uğramış mallardan sorumlu olmayacağız. Gönderilmiş olan malların kullanımı esnasında kullanma talimatları dışında işlem uygulanırsa yine sorumlu olmayacağız. Tüm mallarımızın (OEM) orijinal parça üreticisi tarafından sunulan parçalara tekbül ettiğini ve onlarla değıştirilebilir olduğunu garanti ederiz. Her türlü hak talebi, malların yüklenmesini takip eden 12 ay içersinde tarafımıza yazılı olarak beyan edilmeli ve . önce bizim muvafakatimiz alınmadan malzeme geri gönderilmemelidir. İade durumunda, malzeme bedelsiz olarak gönderilecek ve yükleme masrafları ancak kalite kontrol departmanımızda yapılacak inceleme sonucunda talep haklı bulunursa geri ödenecektir.

NOTES:





COMPANY WEBSITE



COMPANY MOVIE

# BALU FORGE INDUSTRIES LTD (BFIL)

## HEADQUARTERS

506, Imperial Palace, 45, Telly Park Road,  
Andheri (E), Mumbai - 400069, Maharashtra.  
T: +91-26839916 | F: +91-22-26842860 | M: +91-9060303006  
sales@baluindustries.com | info@baluindustries.com



[www.baluindustries.com](http://www.baluindustries.com)



## PLANT ADDRESS UNIT 1

43 - B, Kakti Industrial Area, Kakti,  
Belgaum - 591113, Karnataka, India.

## PLANT ADDRESS UNIT 2

44 - A, Kakti Industrial Area, Kakti,  
Belgaum - 591113, Karnataka, India.

## PLANT ADDRESS UNIT 3

428/1, Next to Aequs SEZ, Hattargi Village,  
Taluk Hukkeri - 591243, Karnataka, India.

## PLANT ADDRESS UNIT 4

LV-21 - Hamriyah Free Zone Sharjah,  
United Arab Emirates.