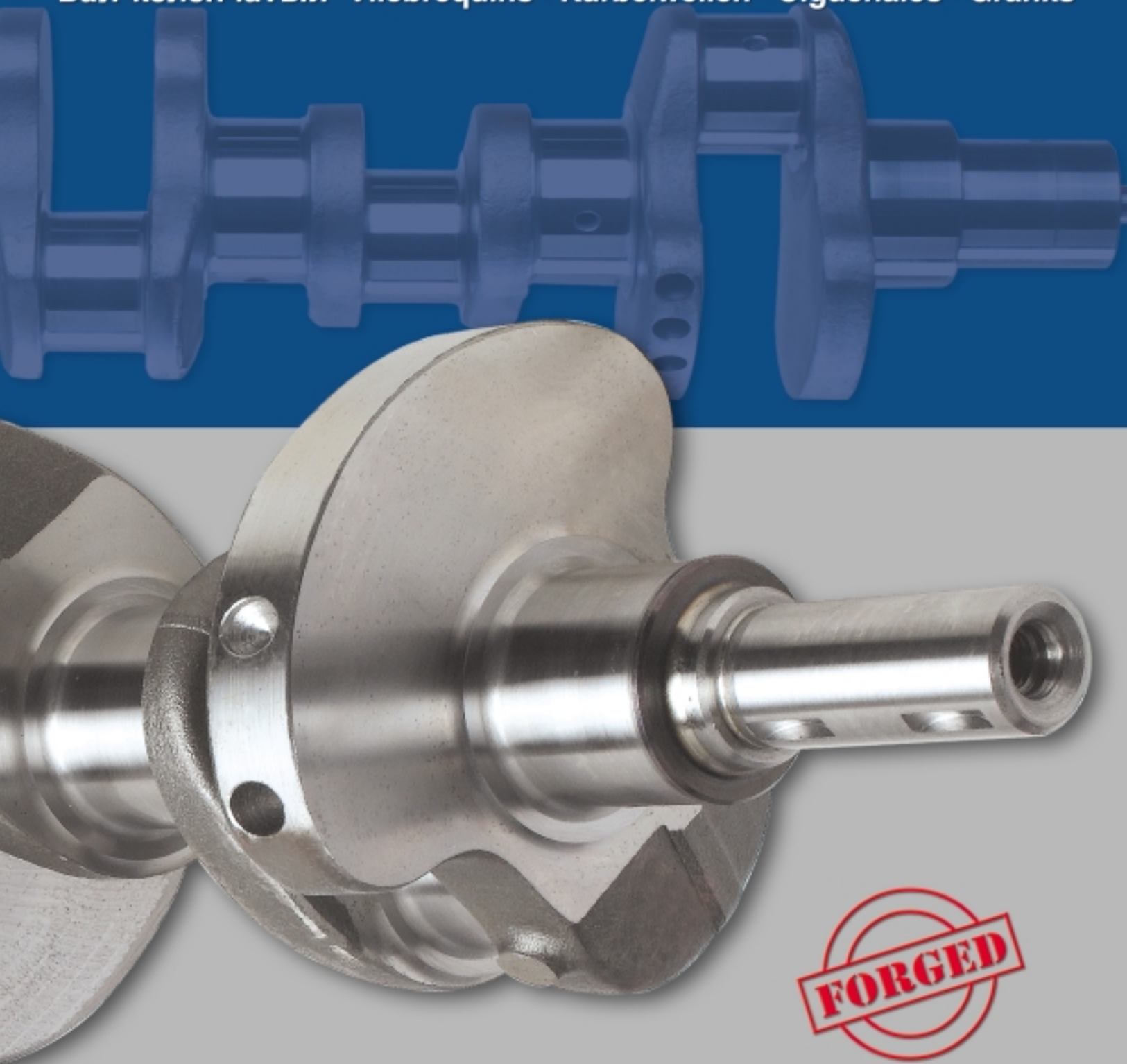


# BALU

## Crankshafts



Вал коленчатый • Vilebrequins • Kurbelwellen • Cigüeñales • Granks



# CERTIFICATE



Management system as per

## **ISO/TS 16949:2009**

(3rd edition, 2009-06-15)

Evidence of conformity with the above standard has been furnished and is certified for

### **BALU INDIA**

**43-B, Kakti Industrial Area, Kakti, Belgavi,  
Karnataka - 591113  
India**

scope

### **Manufacture of Crankshafts**

without product design responsibility (according to section 7.3)

IATF Registration No. 0222357  
Certificate Registration No. 44 111 151192  
Audit Report No. 3516 6878

Issue date: 2015-10-25  
Expiry date: 2018-09-14  
Audit cycle: 12 months from 2015-09-16

A handwritten signature in black ink, appearing to read "J. Br. on old".

Certification body  
at TÜV NORD CERT GmbH

Essen, 2015-10-25

This certification was conducted in accordance with the IATF Rules for auditing and certification and is subject to regular surveillance audits.

TÜV NORD CERT GmbH

Langemarckstrasse 20

45141 Essen

[www.tuev-nord-cert.de](http://www.tuev-nord-cert.de)



02-IAO-QMC-01021

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A13F200 rev. 01/07.14



'Balu' has become a name symbolising quality & excellence in the field of crankshaft manufacturing since its inception in 1990. Our in-house capability & state of the art automotive engineering enables us to manufacture any type of crankshafts in a large range of applications namely Automotive, Agricultural, Marine & Industrial. We have developed a very extensive range of forged crankshafts for leading Original Equipment Manufacturers within India and the SAARC region as well as supplying crankshafts to the global after market to over 80 countries around the world.

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 guarantee to manufacture as per customer requirements & market demands. Our incremental innovation & continuous strive to improve has awarded us by making us the only company to have the capability to manufacture crankshafts confirming to EURO III / Bharat IV norms.

The machining of the crankshafts is done with the latest equipments, instruments, technologies and highly skilled work force which provide exceptional control over the entire process of manufacturing the crankshafts & strict adherence to Six Sigma & 8D disciplines. 'Balu', 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 Auto lines, to ensure precision at every stage.

'Balu' has 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/ month.

## Installed capability and capacity of 30000 crankshafts per annum

- ✓ Infrastructural Capacity to Manufacture 1000 Crankshafts every day
- ✓ Fully Engineered and Equipped to OEM requirements
- ✓ In House Standard Room with CMM Capability
- ✓ Facing & Geometrically Centering on Endomatic
- ✓ Mass Centring on Schenck
- ✓ PIN Milling on Heller & Journal on CNC Turning Centers
- ✓ Oil holes on Thomas Ryder & SPM for universal oil hole
- ✓ Induction Hardening on solid state AEG Elotherm
- ✓ In-house Metallogical Lab to check hardness, Case depth and Material composition
- ✓ Grinding on CNC Journal, Pin & Angular Newall / Landis Grinders
- ✓ Post Grinding operations on Makino Horizontal Machining Centers
- ✓ Dynamic Balancing on Schenk/Abro
- ✓ Super Finishing on Nagel Auto lapping
- ✓ Pressure Cleaning on Otto Durr

## EXPORT AWARDS

### OVER 80 COUNTRIES EXPORTS

We have been accredited with numerous awards for our achievements in crankshaft manufacturing suitable for a large range of applications namely Automobile, Agricultural, Marine and Industrial. We have a strong presence and customer base in over 80 countries worldwide.



*ACMA Certificate of merit  
1999 - 2000 'Excellence in Exports'*



*ACMA Export Award 2000 - 2001*



*ACMA Export Award 2002 - 2003*

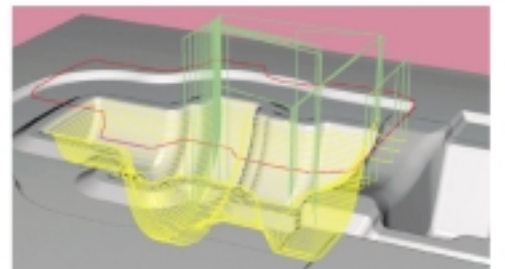
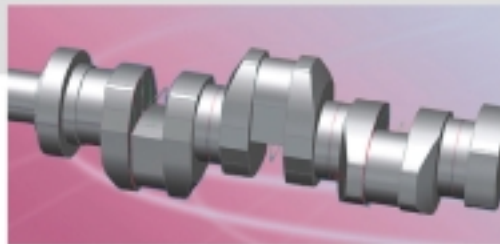
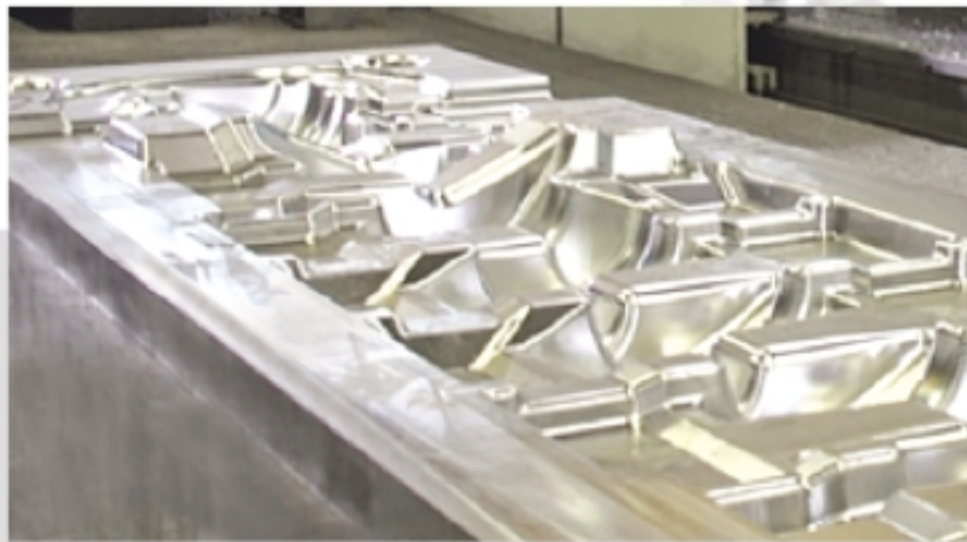


*ACMA Export Award 2003 - 2004*

**BALU**  
CRANKSHAFTS



# FORGING





**INHOUSE TOOLROOM**



**HELLER PIN MILLING**



**CNC JOURNAL  
MILLING**





**MASS CENTERING**

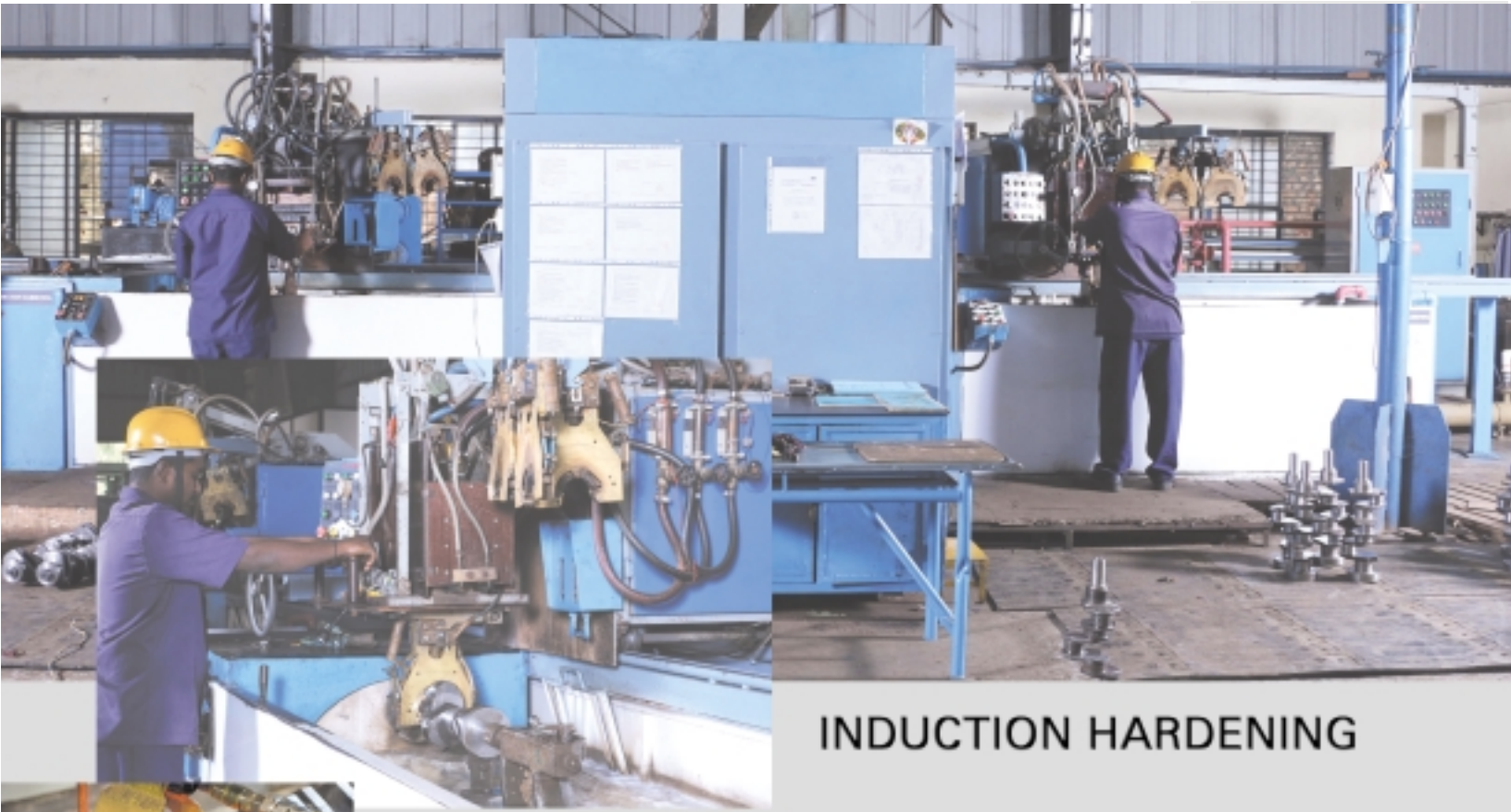


**G. F. MILLING**

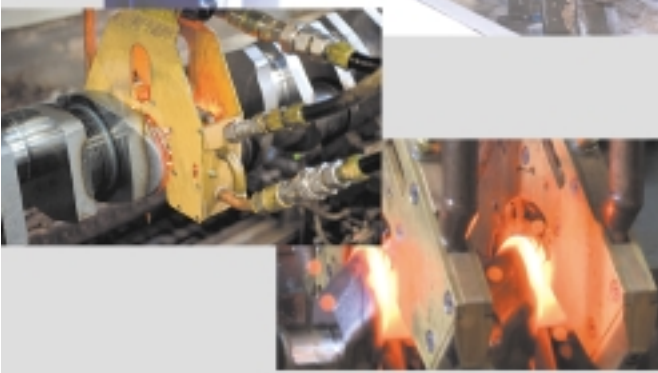
**BALU**  
CRANKSHAFTS

**OIL HOLE DRILLING**





**INDUCTION HARDENING**



**MAGNAFUX**



**STRESS RELIEVING**

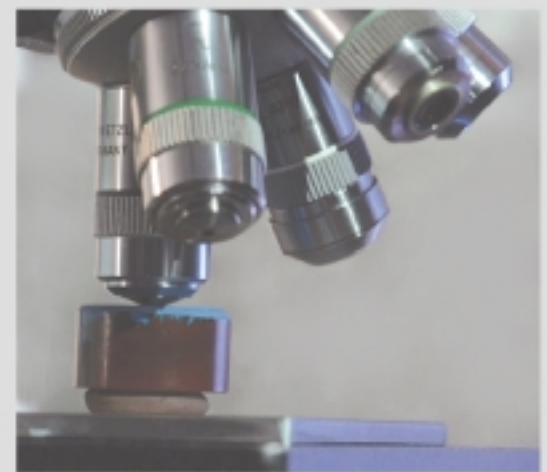




METALLURGICAL LAB

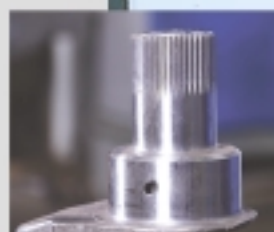
BALU

CRANKSHAFTS





**AUTOMATIC CNC GRINDERS**



**SERRATION ON  
GEAR END  
(DEEP ROLLING)**



**POST GRINDING**





**DYNAMIC BALANCING**



**SUPER FINISHING**

**RALU**  
KSHAFTS

# QUALITY CONTROL



# PACKAGING

# BALU

CRANKSHAFTS



# CUTTING EDGE TECHNOLOGY — UNMATCHED STANDARDS OF QUALITY



CNC Journal Milling



CNC Grinding



Induction Hardening



Post Grinding Operations  
Flange Hole Gear End  
& Tapping



Dynamic Balancing



Super Finishing



Mass Centering



Oil Hole Drilling



Heller Pin Milling



**STATE OF THE ART AUTO CNC LINES**

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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>PERKINS - FORGED</b>			
MF01	026005M1 / 736532M91 / 31312419 / 84402 / 31312436 / 31312441 / SD260034 / U5BG0031 / 31312700 / ZZ90084 / 3637454M91 / ZZ90116 / ZZ90148	3.152 / D3.152  3 CYL	KEYED NOSE ROPE SEAL 135 PERKINS (3.152) F:35, 135,148,254,230,240,250, 254, 255,350,353,355,360, 363, 550 PERKINS : A3,152,AD 152
MF01A	84399 31312437	3.152  3 CYL	SPLINED NOSE ROPE SEAL
MF01PL	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		3.152  3 CYL	KEYED NOSE LIP SEAL WITH COUNTER WEIGHT GEAR, WASHERS & SCREW.





Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>PERKINS - FORGED</b>			
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 A4.192  4 CYL	KEYED NOSE ROPE SEAL MF 65, 158, 165, 765, 155 , 650 PERKINS A4.203, AD4.203 Landini, Agricultural tractor prima series 6000 DT, 6000R, 6000 Special, 7000 R. Crawler Tractor C6000-Cingolati Series MF TRACTOR 100 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 / 31315184 / 94455 / 742344M91 / ZZ90111 / 026033 / 3637458M91 / 31315661	4.203 / D4.203 / A4.203  4 CYL	KEYED NOSE LIP SEAL MF-65, 158, 165, 765, 155 (100 Series) MF INDUSTRIAL 50 MF LANDINI R-DT6000 Pre 100 Series (1947-65) - 65, 765 Industrial tractor-50
MF04A	026032M1 / 94441 / 31315181 / 94454 / 31315182 / 94455 / 31315184 / ZZ90111 / 742344M91	4.203 / D4.203 / A4.203  4 CYL	SPLINED NOSE / LIP SEAL
MF05	31315911 / 31315912 / 85721 / 736829M91 / ZZ90108 / 3637789M91 ZZ90093 84422	4.248 / 4.236 / 1004 / 1004.4 / 1004T / 1004.4T  4 CYL	SPLINED NOSE ROPE SEAL (LIGHT WEIGHT) 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) 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)



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>PERKINS - FORGED</b>			
MF06	3637401M91 / U5BG0024 / 31315981 / 31315982 / 31315991 / 94435 / 94436 / ZZ90082 / ZZ90081 / ZZ90143 / 741747ML	4.236 / 4.248  4 CYL	SPLINED NOSE LIP SEAL (HEAVY WEIGHT) MF 265, 274, 274S, 274SK, 275, 285, 284S-4S, 365, 373, 375, 377, 383, 387, 565, 575,675, 3050, 194-F, 285, 294-S-4S, 393, 397, 178, 185, 188 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) SPLINED NOSE LIP SEAL FLANGE : 12 HOLES  (Gear Available)
MF07A	U5BG0026 / 31315664	4.248 / 4.236  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	4.248 / 4.236  4 CYL	SPLINED NOSE LIP SEAL (LIGHT WEIGHT) MF 158, 175, MF LANDINI R-DT7500  (Gear Available)
MF08A		4.248 / 4.236 / 100.4 / Phaser 1004  4 CYL	SPLINED NOSE LIP SEAL (LIGHT WEIGHT) 3 HOLES FOR PULLEY FITTING  (Gear Available)
MF08T	ZZ90119 / ZZ90202	1004 Phaser Series  4 CYL	SPLINED NOSE LIP SEAL (LIGHT WEIGHT) 3 HOLES FOR PULLEY FITTING LONG NOSE  (Gear Available)



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>PERKINS - FORGED</b>			
MF09	85719 / ZZ90100 / ZZ90076 / 3637457M91 / 737189M91	4.212 / D4.212  4 CYL	SPLINED NOSE ROPE SEAL MF Tractor 100 Series (Italian) 174, 165, 174C Landini Tractor 500 series 6500
MF10	94430 / ZZ90077 / 3637453M91 / 742873M91 / 94430	4.212 / D4.212  4 CYL	SPLINED NOSE LIP SEAL
MF11	31323146 / 84433 / 026020N	6.305  6 CYL	KEYED NOSE ROPE SEAL
MF11L		6.305  6 CYL	KEYED NOSE LIP SEAL
MF12	U5BG0037 / ZZ90113 / 3637408M91	6.354-4 / 6.312-4 /  6 CYL	KEYED NOSE ROPE SEAL MF 399, 699, 1014, 1114, 1134, 1250, 2620, 2640, 2645, 2680, 2685, 2720, 2725, 3080, 3090, 3650 MF COMBINES 24, 27, 29, 29XP, 31, 530, 535, 560, 565, 620, 625, 660, 665, 750, 800, 805, 825 MF LANDINI R-DT1000, R-DT100005 R-DT12500, R-DT1300 MKII R-DT 14500 MKII PERKINS A6.354.4, A6.372.4
MF13	31314021 / 68076 / ZZ90086 / 3637404M91 / ZZ90113 / 748751M1	6.354-4 A6.354.4 T6.354.4  6 CYL	KEYED NOSE LIP SEAL MF 2705, 3525, 3545, 3630, 3650 MF COMBINES 550, 750, 760, 850, 860 MF LANDINI R-DT14500 PERKINS A6.354.4 , T6.354.4



All Crankshafts are manufactured by Balu India and are not OEM parts.  
Part Numbers, Specifications, Engine Models, etc. are for reference purpose only.  
Replacement has to be carried out as per the specification of the OEM.

Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>PERKINS - FORGED</b>			
MF13A	U5BG0035 / 313H021/ 3637019M91/ 3131H024	6.354-4 1006 / 1006T  Phaser Series  6 CYL	KEYED NOSE LIP SEAL 3 HOLES FOR PULLEY FITTING
MF14	3131H022 / ZZ90105	6.354-4   6 CYL	NITRADED KEYED NOSE LIP SEAL
MF15	31322316/31322317/31325016/ 31322301/31325019/31322302/ 31325022/31322321/31325023/ 31322322/31325025/31322351/ 31325028/31322421/31325036/ 31323202/31325042/31323207/ U5BG0045/31323251/ZZ90089/ 31322361/31322363/31322364/ 68063/85727/742150M1/ 736902M1	6.354-2   6 CYL	SPLINED NOSE ROPE SEAL MF 1100, 1014, 1200 MF COMBINES 500, 510, 515, 520, 525, 620, 625 MF LANDINI R-DT9500, R-DT10000, R- DT10005 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	6.354-2   6 CYL	SPLINED NOSE LIP SEAL MF 1100, 1014, 1200 MF COMBINES 500, 510, 515, 520, 525, 620, 625 MF LANDINI R-DT9500, R-DT10000, R-DT100005 PERKINS A6.354, PERKINS A6.354.1 A6.354.2, A6.372, A6.372.1
<b>CASE / INTERNATIONAL HARVESTER - FORGED</b>			
IH01	3110995R91/ 05700AB/ 247-5143/ 751303/ 751303R2/ 751303R3/ 751303R5/	D154, 154 C.I.D. 2.5 L D165, 165 C.I.D. 2.7 L D171, 171 C.I.D.  4 CYL	B - 275 D-154 BD154, 144, 364, 384, 444 Tractors 2424, S, SC, SE Tractors, 780, 880, 885, 4600 Tractors
IH02	3144626 / 3132752R3 / 2744406RI / 182752R2 015C1/ 015C11089/ 247-5170/ 37CR4/ 6719N/ IH625R2	D-239 DT239 239 C.I.D. 3.9 L  4 CYL.	WITH BALANCER GEAR 544 / 684 /724 / 744 / 784/ D239 574, 674, 685 Backhoe685 Tractor, TD7, TD7E, TD8C Crawler Tractors, TD8 Dozer





Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>CASE / INTERNATIONAL HARVESTER - FORGED</b>			
IH03	3228376R91 / 218528R2 / 218528R3/ 218528R1/ 528R2-79/ A09-7292/ 247-513	D - 268 D268, DT268 268 C.I.D. 4.4 L  4 CYL.	WITH BALANCER 510B Loader Neuss Diesel
IH04	3132968R91 / 1329196CI	DT - 206  4 CYL	WITH BALANCER GEAR 15M 654, 554, 584, 624
IH05	3136036R95 / 3059514R1/ 6791N	D -358 / DT 358 5.8 L  6 CYL.	LOADER H 65C WITH COUNTER WEIGHT 826, 886, 955XC, 1420, 28263088, 3288 Wheel Tractors Neuss Diesel
IH06	J908031 / J918323	4-390 4T-390 239 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) JX75 (Agricultural Tractor - JX Series) JX80 (Agricultural Tractor - JX Series) JX85 (Agricultural Tractor - JX Series) JX90 (Agricultural Tractor - JX Series) JX95 (Agricultural Tractor - JX Series) VJ70 (Agricultural Tractor - VJ Series) VJ80 (Agricultural Tractor - VJ Series)

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Replacement has to be carried out as per the specification of the OEM.

Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>CASE / INTERNATIONAL HARVESTER - FORGED</b>			
IH09		3 CYL	JX1060CJX55 (Agricultural Tractor - JX Series) / JX60 (Agricultural Tractor - JX Series) / JX65 (Agricultural Tractor - JX Series)
IH010		4 CYL	CX100, CX70, CX80, CX90, MX 100 C, MX80 C, MX90 C
<b>MAHINDRA AND MAHINDRA / INTERNATIONAL HARVESTER - FORGED</b>			
MM-IH-101	55570540R11	275 DI / T4 SERIES  3 CYL	
MM-IH-102	5557055	265 DI  3 CYL	REGULAR BS III
MM-IH-103	5553039	475 DI  4 CYL	REGULAR BS III
<b>MAHINDRA AND MAHINDRA - FORGED</b>			
MM 104		XD3P 2.5L  4CYL	MAHINDRA BOLERO



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>MAHINDRA AND MAHINDRA - FORGED</b>			
MM105		MDI 3200 2.6L  4 CYL	MAHINDRA BOLERO
<b>JOHN DEERE - FORGED</b>			
JD01	AT-18031/ T-23516 / RE-47637/ RE-46896 / T20031 / 247-5144 / 6833N / T2351C / T23516T / T23517T	3-152, 152 C.I.D. 2.5 L 3-764, 164 C.I.D. 2.7 L 3-179, 179 C.I.D. 2.9 L  3 CYL	940, 1020, 1030, 1040, 1120, 1130, 1140, 1520, 1530, 1630, 2020, 2040, 2150, 2155, 2240, 2255, 2355NCS, 2355NTSS, 300, 300A, 300BT, 301, 3018, 302A, 3029, 3029D, 310, 350  (Gear Available)
JD01A	247-5225 6897N RE50979 RE521348 R101223	3-179 3029 Power Tech 179 C.I.D. 2.9 L  3 CYL	2155, 2355N, 2240, 5105, 5205, 5200, 5300, 5400, 5210, 5310, 5310N, 5410, 5510, 5510N, 5220, 5320, 5320N, 5400N, 5500N, 5420, 5420N, 5520, 5520N Tractors, 240, 250, 260, 270, 8875 Skid Steer Loaders, 300 Series  (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. 3.3 L 4-219, 219 C.I.D. 3.6 L 4-239 (Early) Below SN 769,619 239 C.I.D. 3.9 L  4 CYL.	SHORT NOSE 36 MM 1640, 1830, 1840, 2020, 2030, 2040, 2040S, 2120, 2130, 2100, 2250, 2270, 2280, 2320, 2355C2, 2355TSS, 2360, 2420, 2450, 244E, 2510, 2520, 2523, 2555C2, 2650, 2730, 2735, 2750, 2755CS, 2755TSS, 2850, 2855N, 290D, 310, 310B, 310C, 310D, 315C, 3300, 34, 3430, 3830, 401, 401A, 401B, 401C, 401D, 4020, 4030T, 4039D, 4039T, 400, 410, 410B, 515B, 44, 440, 440A, 440B, 450, 450A, 450B, 450C, 450D, 454, 455D, 480, 480A, 480B, 480C, 482C, 490, 499, 515B, 6040, 6200, 6300, 6602, 6620, 6622, 70, 70D (Gear Available)
JD03	RE-20585, RE-36605, RE23909, R97926, R97928, R121018, R81959, R979266, RE65224	4-219 / 4-039 / 4-239 (Late) Above SN 769,620 239 C.I.D. 3.9 L  4 CYL	LONG NOSE 60 MM 2755, 6040, 4039, 190 Excavator, 300 D, 310 C, 315 C Loader/ Backhoe  (Gear Available)
JD04	AT-22562 / T-23266, RE502190, RE45541, RE47640, RE48330, R108568, R108679, R45541 247-5058, 6837N, F1910R F2729R, F2792R, F3315R F3560R, F3561R, R26550 R26550R, R40730, RE45541 RE54130, T23264T, T23266T T23299T, T23480T, T23517T RE502190	6-303 5L 6-329 5.4L 6-359 5.9L 6059D / T / A 5.9L  6 CYL	3030 / 3040 / 3120 / 3130 / 3640 / 4040S/ 2840, 2940, 2950, 2955, 3130, 3140, 3150, 3155TSS, 4030, 4200, 4400, 4420, 4425, 444, 444C, 444CH, 444D, 499, 540, 540A, 540E, 540G, 544, 544A, 544C, 544D, 544E, 544G, 548E, 570, 570A, 570B, 710B, 710C, 710D, 6059D, 5049T, 699, 7484, 9900, 9910, 9920, 9930  (Gear Available)



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>JOHN DEERE - FORGED</b>			
JD05	RE-54883/ RE-33485 (OLD) / R90825D R120009, 247-5156/ 6852N/ R121018/ RE55452	4-276 / 4-276T / 4-045 / 4-045T / 4045D, 276 C.I.D. 4.5L  4 CYL	LONG NOSE 60MM 410D, 440G, 510D Loader 490E Excavator 540E Skidder, 548E Grapple/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, 344E, 410C, 444E, 510B, 510C, 610, 610B, 610C, 650G Loaders 450E, 450G, 455E, 455G, 550, 550A, 550B, 550G, 555, 555A, 555B, 55G Crawlers, 490D, 493D, 495D, 590D, 595, 595D Excavator, 2630, 2640, 6215, 6415  (Gear Available)
JD07	RE-45517 RE-33687 (OLD), RE-4619, RE-63024 RE502191, R54619, 247-5132, 6820N, R104523	6.414D./ 6.414T/ 6.8 L / 6068/ 6068D/ 6068 T/ 6.8L  6 CYL.	414, 414D, 544B, 544C, 544D, 624E, 624G, 640, 640D, 640E, 643, 643D, 648D, 648E, 648G, 653, 655B, 670, 670A, 670B, 672A, 672B, 690D, 690E, 693D, 750, 750B, 750C, 755, 755A, 755B, 790E  (Gear Available)
JD08	RE 50618, RE 504638, R113596 247-5213 6858N	4045 4.5 L Powertech   4 CYL.	SINGLE STEP TC444H, 120, 210LE, 310E, 310G, 310SE, 310SG, 315SE, 315SG, 410E, 410G, 444H, 450G, 450H, 455G, 485E, 486E, 488E, 550G, 550H, 555G, 6410, 6410L, 650G, 650H, 5403, 5410, 5415, 5415H, 5420, 5420N, 5425, 5425N, 5510, 5510N, 5520, 5520N, 5525, 5525N, 5605, 5615, 5705, 5715, 5715HC, 6110, 6110L, 6120, 6120L, 6210, 6210L, 6215, 6220, 6220L, 6310, 6310L, 6310S, 6320, 6320L, 6403, 6405, 6410S, 6415, 6420, 6420L, 6510L, 6510S, 6520L <b>Skid Steers:</b> 260, 270, 280 <b>Sprayers:</b> 6700 (Gear Available)
JD08A	RE 50618, RE 504638, R113596 247-5213 6858N	4045 4.5L PowerTech   4 CYL.	DOUBLE STEP TC444H, 120, 210LE, 310E, 310G, 310SE, 310SG, 315SE, 315SG, 410E, 410G, 444H, 450G, 450H, 455G, 485E, 486E, 488E, 550G, 550H, 555G, 6410, 6410L, 650G, 650H, 5403, 5410, 5415, 5415H, 5420, 5420N, 5425, 5425N, 5510, 5510N, 5520, 5520N, 5525, 5525N, 5605, 5615, 5705, 5715, 5715HC, 6110, 6110L, 6120, 6120L, 6210, 6210L, 6215, 6220, 6220L, 6310, 6310L, 6310S, 6320, 6320L, 6403, 6405, 6410S, 6415, 6420, 6420L, 6510L, 6510S, 6520L <b>Skid Steers:</b> 260, 270, 280 <b>Sprayers:</b> 6700 (Gear Available)
JD09	RE506195 R503715	4045 4.5L PowerTech   4 CYL.	<b>Tractors:</b> 310J, 310SJ, 344H (SN800000>), 3800, 410J, 444J (Tier III SN 611275>), 450J (Tier III SN 159987>), 550J (Tier III SN 159987>), 650J (Tier III SN 159987>) <b>European:</b> SE6010, SE6020, SE6110, SE6120, SE6210, SE6220, SE6310, SE6320, SE6410, SE6420, 5415, 5510, 5510N, 5515, 5605, 5615, 5620, 5705, 5720, 5820, 6010, 6020, 6110, 6110L, 6120, 6120L, 6130, 6205, 6210, 6210L, 6215, 6220, 6220L, 6225, 6230, 6230 PREMIUM, 6310, 6310L, 6310S, 6320, 6320L, 6325, 6330, 6330 PREMIUM, 6405, 6410, 6410L, 6410S, 6415 (Eng SN 196071>), 6420, 6420L, 6420S, 6425, 6430, 6430 PREMIUM, 6510L, 6510S, 6520L <b>Brazil:</b> 5403 (Eng. SN 006876>) (Gear Available)





Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>JOHN DEERE - FORGED</b>			
JD10	AR96189, R26540, R26560>, R56919, R56934, RE63451, RE53422, RE26560R, R40570, R40740R	6076 Early 6404 Late Above SN 215,000 6.6 L 6466 Early Below SN 499,000 7.6 L 6 CYL	4010 Early, 4020, 4040, 4230, 4240, 4320, 4430, 4620, 4630, 7020 SHORT NOSE 3"  (Gear Available)
JD11	RE42674, AR26431, R26560, RE63292 247-5137 6822N R26549 R26560 R4074R R53203	6.404 Early SN BELOW 214, 999 6.6 L  6 CYL	600 Wheel Loader 4000, 4010, 4020, 4230, 4230, 4430, 4630 Wheel Tractors, 600, 644, 644A, 646, 646B, 690, 690A, 690B, 693B, 740  (Gear Available)
JD12	6857N, R104855 R26560, R26560R RE42675, RE53203 RE53477, R56506 R56919, R56934 R56979, R63451 R87544A	6466 / 6076 Late  6 CYL	SHORT NOSE 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 (Gear Available)
JD13	R104855, RE53201, RE42671, RE63293 247-5164, 6855N R26506, R26506R R56919, R87544 RE27132, RE42675 RE53199, RE53201 RE53291, RE53292 RE63293, RG23551	6076 Late 7.6 L ABOVE SN 187, 658  6 CYL	LONG NOSE 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			Agricultural Tractor- 2000 series 2000, 2100, 2200, 2300  4 CYL
<b>FORD- FORGED</b>			
FO01	C5NE-6303-R ECNN-63038-A C5NE6303L C5NE6305 EONN6303AA 1590N, 247-5215	D175/ D183/ D192/ BSD329  3 CYL	FORD 3000 SERIES STROKE 4.2" 2000, 2100, 2110, 2120, 2300, 230A, 2310, 234, 2610, 2910, 3000, 3000 Super Dexta, 3055, 3100, 3110, 3120, 3150, 3190, 3230, 3300, 3310, 333, 3330, 335, 336, 340, 340A, 3400, 3500, 3550, 3600, 3610, 3900, 3910, Gas 4000 Series



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>FORD- FORGED</b>			
FO02	FONN-6300-MA/ C5NE-6303N/ C5TE6303/ E5NN6306N/ E5NN6303AA, FONN6303BA, 83956951, 1591N	BSD 333 3.3L  3 CYL.	FORD 4000 SERIES 245D, 250C, 260C, 3930, 3930H, 3930N, 4130, 420, 4400, 445, 445C, 445D, 4500, 4630, 515, 530A, 531, 535, 540, 545, 4000, 3930NO, 4000 Major, 4100, 4110, 4130, 4130N, 4130NO, 4140, 4190, 4200, 4330, 4340, 4400, 4410, 4500, 4600, 4600SU, 4610, 4610SU, 4630, 260C, 455, 455C, 455D, 515, 530A, 531, 532, 535, 540, 540A, 540B, 545, 545A, 545C, 550, 555, 555A, 555B Skid Loaders : L783, L785
FO03	C5NE-6303-K 1595N / 6110A	233 / 256 / BGD442  4 CYL	FORD 5000 SERIES STROKE 4.2" (AFTER 9/4/1986) GEAR 76 TEETH Super Major 5000, 5100, 5190, 5200, 5500, 5550, 5600, 6510, 5700, 6000, 650, 655, 6500, 6600, 6610, 6700 Combines : 620, 622 Loaders : A62, 750 Dorsett Wheel Tractors : 7000, 7100, 7200, 7500, 7600, 7610, 7700, 7710
FO04	D9NN-6303-AA E5NN-6303-FA NN 6303CB E5NN6303DA E5NN6303CA D9NN6303A D5NN6303FA 1598N D9NN6110AA	D268/ BSD444  4 CYL	FORD 6000/7610 SERIES STROKE 4.4" GEAR 76 TEETH (After 9/4/1986) 655, 6000 / 6600 / 6610 / 6700 / 6710 / 7000 / 7600 / 7610 / 7700 / 7710 7100, 7200, 7500 Loader A62, Dorsett Diesel
FO05	E5NN6303DA	4 CYL.	FORD 6010 SERIES STROKE 4.4" GEAR 78 TEETH  6610 / 5640
FO06	C5NE-6303-K 1595N, 6110A	233/ 256/ BSD442  4 CYL	FORD 5000 SERIES STROKE 4.2" (BEFORE 9 / 4 / 1986) Major 5000 / 5600 / 6600 / 7000 / 7600 / 7700 Super Major 5000 / 5100 / 5190 / 5200 / 5500/ 5550 / 5600 / 5610 / 5700 / 6000 /650 / 655 / 6500 / 6600 / 6610 / 6700 Combines : 620, 622 Loaders : A62, 750, Dorsett
FO07	D9NN-6303-AA E5NN-6303-FA NN 6303CB E5NN6303DA E5NN6303CA D9NN6303A D5NN6303A 1598N D9NN6110AA	D268/ BSD444/ 655  4 CYL	FORD 6000/7610 SERIES STROKE 4.4" GEAR 78 TEETH (PRIOR TO 9 / 4 / 1986) 6000 / 6600 / 6610 / 6700 / 6710 / 7000 / 7600 / 7610 / 7700 / 7710 / 7200 / 7100 / 7500 Loader : A62 Dorsett Diesel





Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>FORD- FORGED</b>			
FO08		4 CYL	4230 (30 Series) / 4330/ 4430 (30 Series) / 4835 (35 Series) / 5010 S (10 Series) / 5635 (35 Series) / 6635 (35 Series) / 7635 (35 Series) / L65 (L Series) / L75 (L Series) / L85 (L Series) / L95 (L Series) / TD75 D (TD Series) / TD80 (TD Series) / TD80 D (TD Series) / TD85 D (TD Series) / TD90 (TD Series) / TL100 (TL Series) / TL70 (TL Series) / TL80 (TL Series) / TL90 (TL Series) / TN65 F (TN Series) / TN70 F (TN Series) / TN75 F (TN Series) / TN75 FA (TN Series) / TN80 (TN Series) / TN85 FA (TN Series) / TN95 F (TN Series) / TN90F
FO09		3 CYL	3010S3435 (35 Series) / 3830 (30 Series) / 3935 (35 Series) / 4010S4030 (30 Series) / 4135 (35 Series) / 4635 (35 Series) / 5010STD55DTD60 (TD Series) / TD60DTD65DTL65 (TL Series) / TN55 (TN Series) / TN55DTN60ATN65 (TN Series) / TN70 (TN Series) / TN75 (TN Series)
FO10	BG 7X6030 BA	6 CYL	TRUCKS C 1722E / C 2422E / C 2622E / C2628E  Electric engine
FO11	957E6303 E2006TP	3 CYL	Dexta, Super Dexta Ford New Holland
FO12		4 CYL	F 250/F 350
<b>EBRO FORDSON- FORGED</b>			
EF01	EIADDN-6303-F/ 81710532/ 66040	3.010 4D 592 E  4 CYL.	MAJOR & SUPER MAJOR POWER MAJOR, MAJOR PETROL FORDSON SERIES D FORD THAMES MODEL 220



**BALU**  
**CRANKSHAFTS**

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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>FIAT IVECO TRACTOR - FORGED</b>			
FT 02	4785106	3 CYL.	480, 480S, 540 8035-01 / 02 / 04 MAIN 76.2 MM CON 58.75 MM STROKE 110M FLANGE 110 MM FLANGE HOLE-07  (Gear Available)
FT 04	4785111/ 98461246/ 5088486/ 99464932	3 CYL.	45-66 (66 Series) / 45-76 (76 Series) / 50-66 (66 Series) 55-46 ( 46 Series) / 55-56 (56 Series) / 55-65 (65 Series) 55-66 ( 66 Series) / 55-75 (75 Series) / 55-76 (76 Series) 55-85 (85 Series) / 55-86 ( 86 Series) / 55-88 (88 Series) 55-90 (90 Series) / 56-66 (66 Series) / 60-46 (46 Series) 60-56 (56 Series) / 60-65 (65 Series) / 60-66 (66 Series) 60-75 (75 Series) / 60-76 (76 Series) / 60-85 ( 85 Series) 60-88 (88 Series) / 60-90 (90 Series) / 60-93 (93 Series) 60-94 (94 Series) / 62-85 (85 Series) / 62-86 (86 Series) L60 (L Series) (Gear Available)
FT 05	4602840 1930130 4653850	3 CYL.	450 TRACTOR MAIN 76.2 MM, CON-58.75 MM STROKE - 110 MM FLANGE 95 MM FLANGE HOLE - 06 SHORT WEB GROVE ON 4TH MAIN (SUITABLE FOR MIDDLE EAST MARKET)  (Gear Available)
FT 07	4653287	8040.02  4 CYL.	FIAT 50 NC LORRY 6 Holes - Flange 95 mm CLASSIC TRACTORS - 550 / 600 / 640 / 666 / 670 / 680  (Gear Available)
FT 08	98451527 / 098449226 / 504075031	8040.05 8040.25  4 CYL	50.9-65.12 ZETA / 65E10-75E12, 50NC 85.12/65.9/35.9 Suitable for tractor MAIN - 79.8 MM CON- 63.75 MM STROKE - 115 M, FLANGE 114 MM FLANGE HOLE - 07  (Gear Available)
FT 09	4785110/ 4785304/ 98451529/ 5088487	4 CYL.	65-66 (66 Series) / 65-90 (90 Series) / 65-93 (93 Series) / 65-94 (94 Series) / 70-66 (66 Series) / 70-66 F (66 Series) / 70-76 F (76 Series) / 70-90 (90 Series) / 72-93 (93 Series) / 72-94 (94 Series) / 80-66 ( 66 Series) / 80; 66 F (66 Series) / 80-76 (76 Series) / 80-76 F (76 Series) / 80-90(90 Series)/ 82-93 (93 Series ) / 82-94 (85-90 (90 Series) / 88-93 (93 Series ) / 88-94 (94 Series) / L65 (L Series) / L75 (L Series) / L85 (L Series) / L95 (L Series) (Gear Available)



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>FIAT IVECO TRACTOR - FORGED</b>			
FT 10	4896766	6 CYL.	Eurocargotector 170 E 22 / E 25 170 / 240 E 25 / E 22 170 / 260 25 E / 22 E 230 / E 230 24 STROKE : 120MM
<b>DAVID BROWN - FORGED</b>			
DB01	K961007 / D917985/ 5321N	3.0 L  4 CYL.	MODELS 990, LATE, AD 4/49
DB02	K210100 / D905196 / K179935 / 917935/ 2338423 / 961007/ 666000 / 908453	3.6 L  4 CYL.	MODELS 990 EARLY, 995, 996, 1200, 1210, 1212, AD 4/55, 12-1390, 1410, 1412 SMALL MAIN
DB03	K928415 / K928416 / 43322 / D928	3.6 L  4 CYL.	LARGE MAIN AD4155, 1410, 1490, 1494
<b>ROMANIA UTB UNIVERSAL TRACTOR - FORGED</b>			
UTB 01	10303010	650  4 CYL.	SMALL FLANGE ROPE SEAL
UTB 02	10303020	660  4 CYL.	BIG FLANGE LIP SEAL



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>ROMANIA UTB UNIVERSAL TRACTOR - FORGED</b>			
UTB 03	D03-C08-A	70 HP M - 85, 17 C - 75, 17  4 CYL.	MTZ - 70 / UMZ
UTB 04 M12  UTB 04 M14	Z1-100501143	T - 25   2 CYL.	M - 12 THREAD  M - 14 THREAD
UTB 05	D - 371005011B	T - 40  4 CYL	INTEGRATED COUNTER WEIGHT.
UTB 06	240-1005020-BI	80 H.P. D - 240  4 CYL.	MTZ - 80
UTB 07	Z0 - 04 C9	SMD - 20  4 CYL	JUMS 6M / SMD - 20 / DT - 75 JOBS01 RUSSIAN, UKRAINE
UTB 14	11503020, 115030040, 651878	  3 CYL	MODEL NOS. 350, 353, 445, 450, 453, 500, 530, 533



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>ZETOR- FORGED</b>			
ZT01	20010301	2 CYL	ZETOR 2011 CZECHOSLOVAKIA
ZT02	30010301	3 CYL	ZETOR 3011 CZECHOSLOVALIA
ZT03	40010301/ 40010399/ 72010399	4 CYL	ZETTOR 4011 CZECHOSLOVALIA <b>UR1 Series</b> 4011, 4320, 4321, 4340, 4341, 4511, 4611, 5320, 5321, 5340, 5341, 5511, 5516, 5545, 5611, 5645, 5647, 5711, 5718, 5745, 5748, 5911, 5945, 6011, 6045, 6211, 6245, 6320, 6321, 6340, 6341, 6711, 6718, 6745, 6748, 6911, 6945, 7011, 7045, 7045 H, 7211, 7245, 7245H, 7320, 7321, 7340, 7341, 7711, 7745
ZT03HD	URSUS C 385	4 CYL	HEAVY DUTY (URSUS II)
ZT04	URSUS C 910	6 CYL	ZETOR INTEGRATED COUNTER WEIGHT C 380
ZT04HD		6 CYL	HEAVY DUTY (URSUS II)



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>ZETOR - FORGED</b>			
ZT05	78003001	4 CYL	CRANKSHAFT PROXIMA
ZT06	96003001	4 CYL	CRANKSHAFT PROXIMA
<b>URSUS- FORGED</b>			
UR360A	46.40399.0 3S-4003	4 CYL	URSUS 360 (ZETOR TYPE) 6 HOLES ON REAR C 360
<b>ESCORT- FORGED</b>			
ES01 ES02	URSUS C 330 42.03105.0/3	2 CYL	ESCORT-335 ESCORT-345
<b>CUMMINS - FORGED</b>			
CU01	3908032 / 3929037 / 3907804 /3915259 / 3903828 / 3905619 / 3907604	6B/ BT/ BTA 5.9L  6 CYL	Aspirated / Turbo / Turbointercooler 6B / BT/ BTAC STROKE 120.0 mm Agco- Massey : Combine Harvester MF 3640 <b>Case:</b> Motor Graders 845/888 CK / W 20E <b>Fiat Allis :</b> Track-Type Tractors FD 130 - 130 - Excavator Loader FX 2150 - Grader FG 140 <b>Ford :</b> Trucks F 12000 / F 14000 / F 16000 - CARGO 1215/1317/1415/1417/1421/1517/1521/ 1617/1621/1717/1721/2421 <b>Komatsu :</b> Machines for construction GDS 23 / PC150.5Metso <b>Dynapac :</b> CA compactor 25 T <b>Muller :</b> TM Roller 14 / T 522 / VAP 70P / 701 <b>Crandon :</b> Trucks off road RK 410/411 / 610 / 614H / 6812H <b>Volkswagen :</b> L Trucks 12,170 / 13,190 / 14,170 / 15,190 / 16,170 / 16,200 / 17,210 / 23,210 <b>Volvo :</b> grader FG 140



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>CUMMINS - FORGED</b>			
CU02	3918986, 3910968, 3914584, 3917443, 3917320, 3904363, 3905625, 390562, 728533	6C 6CT C SERIES 8.3L           6 CYL	STROKE 135mm Aspirated engine / turbo / turbo- intercooler AGCO - MASSEY : Tractors MF 6350 / MF 6360- Harvesters MF34 / MF38 CASE : Combine Harvester F 2388- Loaders W 36B / 821B / 9.250- Tractors MX 88 / M 270 FIAT ALLIS : Tractors FD 140 / FW 200 / GS 160/170 / 14C AD / FG 65/95 / 105B / FR 140 / 160- Graders Loaders 160-200 FG 160-170-200- FORD : Trucks CARGO 1422/1622 / 1630/1722 / 2422/ 2425 / 2622/2630 / 2631/3222 / 4031 KOMATSU : Machines for construction WA 320/ 629 GB / D 60 / PC 150-153-155-200 / GD 523-525-623 / 5D 60 METSO DYNAPAC : Rollers Müller : TM Roller 17/26 / TC 18 NEW HOLLAND : CS harvester 660 RANDON : Trucks off road RK 628 VOLKSWAGEN : Trucks 14,210 / 14,220 / 16,210 / 16,220 / 16,300 / 17,220 / 17,300 / 17,310 / 23,220 / 24,250 / 26,220 / 26,260 / 26,300 / 35,200 / 40,300 - Chassis w / bus 18.310 VOLVO : Grader VP 720
CU03	3608833, 3024923, 3000140, 3986991, 101109,10846, 3004165, 111786, 110760, 124310, 12821, 5671, 130186, 0131, 144016, AR1937	NTA-855 NT/NTA/NTTA (250, 355, NTC 350, NTC 400) BIG CAM       6 CYL	CYLINDRICAL TRIP Aspirated engine / turbo / Turbo Intercooler Engines for trucks / machines construction / Industrial / Locomotive / Maritimes / stationary / Motobombas / Generators KOMATSU : Tractors A- D 60 / R 65 A-E MICHIGAN : Loaders RANDON : Trucks off road RK 425/430/435
CU03A	101109, 162186, 110760, 181030, 111789, 187640, 121610, 196410, 123410, 208460, 130186, 208470, 135030, 3001588, 136530, 3029340, 142770, 42960, 142960	NTA-855 NT/NTA/NTTA (250, 355, NTC 350, NTC 400) SMALL CAM       6 CYL	
CU04	3908031, 3907803 9P902148, 3903827 3863279, 3903830 3905617, 3929036 3863276	4 BT 4B B SERIES 3.9L       4 CYL	STROKE 120mm Aspirated engine / turbo / turbo intercooler FIAT ALLIS : 88.4 Backhoes FB / FB 100.4 FORD : Cargo Trucks 814/815 - Vans F 4000 / F 1000 / F 350 METSO DYNAPAC : CA compactors 50 / CC 422/ 132/221 CP
CU05	2830476 3942441 3929627 4896766 2830477 2830476 4981642	QSB/ISBE 5.9L          6 CYL.	STROKE 120.0 mm Electric engine Ford : Trucks: C1722e / C2422e / C2622e / C2628e Volkswagen : Trucks : 17250e / 24250e Iveco : Eurocargotector 170E 22/170 E 25 / E 25 240 / 170 E 22 / E 25 260 / 230 22/230 E E 24



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<b>MERCEDES - FORGED</b>			
OM02	314.030.62.02 314.030.60.02 314.030.55.02 314.030.33.02 314.030.49.02 314.030.44.02	OM314        4 CYL	Trucks L 608 / L 708 Chassis w / bus LO 603/ 608 LO / LO 708  4 INTEGRATED COUNTER WEIGHTS KNURLED  97 MM
OM03	314.030.61.02 314.030.52.02 314.030.32.02 314.030.20.02 314.030.55.01 314.030.50.02 314.030.52.05	OM314        4 CYL	Trucks L 608 / L 708 Chassis w / bus LO 603/ 608 LO / LO 708  4 INTEGRATED COUNTER WEIGHTS SCROLLED  97 MM
OM04	321.030.12.02 252.303.100.104 252.303.200.103	OM321        6 CYL	SCROLLED  97 MM
OM04A		OM321        6 CYL	SCROLLED BOLTED COUNTER WEIGHTS  97 MM
OM05	321.030.202	OM321        6 CYL	KNURLED INTEGRATED COUNTER WEIGHTS  97 MM
OM05A		OM321        6 CYL.	KNURLED BOLTED COUNTER WEIGHTS  97 MM



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>MERCEDES - FORGED</b>			
OM06	352.030.3202 352.030.7402 352.030.3402 352.030.6802 352.030.0002	OM321  6 CYL	911 B - SCROLLED (INTEGRATED COUNTER WEIGHTS) Trucks 1113/1114/1115/1118/1313/1314/1315/1316/ 1317/1318/1513/1514/1518/2013/2014/2016/2017/ 2213/2214/2216/2217/2218/2314 Chassis w / bus LO LPO - 1113/1114 / 1116 / OF IT 1115 / LO -OF -OM 1313/1314 / OF- OH 1313/1314 / OF- OH 1315/1318 / 1518 / LO- OH 1317 97MM
OM06A	352.030.3402 352.030.1502 352.030.5802 352.030.6802 352.030.0002	OM 352 / 353  6 CYL	SCROLLED COUNTER WEIGHT FASTENED WITH BOLTS. Trucks 1113/1114/1115/1118/1313/1314/1315/1316/ 1317/1318/1513/1514/1518/2013/2014/2016/2017/ 2213/2214/2216/2217/2218/2314 Chassis w / bus LO LPO - 1113/1114 / 1116 / OF IT 1115 / LO -OF -OM 1313/1314 / OF- OH 1313/1314 / OF- OH 1315/1318 / 1518 / LO- OH 1317 97MM
OM07	352.030.6402 /352.030.3702 352.030.5802 / 52.030.7002 352.030.4602 / 344.030.4901 344.030.6701 / 344.031.9301 352.030.0902 / 352.030.7002 352.030.7802 / 352.030.8002	OM 352  6 CYL	911 C - KNURLED (INTEGRATED COUNTER WEIGHTS) Trucks 1113/1114/1115/1118/1313/1314/1315/1316/ 1317/1318/1513/1514/1518/2013/2014/2016/2017/ 2213/2214/2216/2217/2218/2314 Chassis w / bus LO LPO - 1113/1114 / 1116 / OF IT 1115 / LO -OF -OM 1313/1314 / OF- OH 1315/1318 / 1518 / LO- OH 1317 97MM
OM07A	352.030.3702 / 352.030.4602 352.030.5802 / 352.303.7002 352.030.6402 / 352.030.7802 344.030.4901 / 344.030.6701 344.031.9301 / 352.030.0902 352.030.8002	OM 352/ 353  6 CYL	KNURLED COUNTER WEIGHT FASTENED WITH BOLTS Trucks 1113/1114/1115/1118/1313/1314/1315/1316/ 1317/1318/1513/1514/1518/2013/2014/2016/2017/ 2213/2214/2216/2217/2218/2314 Chassis w / bus LO LPO - 1113/1114 / 1116 / OF IT 1115 / LO -OF -OM 1313/1314 / OF- OH 1315/1318 / 1518 / LO- OH 1317 97MM
OM08A	364.030.1102 364.030.0702 364.030.1302 364.030.1402 364.030.1201 374.030.0002	OM 364 / A / LA  4 CYL	INTEGRATED COUNTER WEIGHTS Aspirated / Turbo intercooler Buses 610 U / L 709 / L 710 / L 712/ L 912 / L 915 Chassis w / bus LO 712/812 -OF 809 / 812- LB 814 / LN 914/ 914 ON / OF 1114 / OF 1214 97.5MM
OM09	366.031.1201 366.030.0702 366.030.1102 366.030.1402 366.030.1502 366.030.1602	OM 366 / A / LA / G  6 CYL	8 INTERGRATED COUNTER WEIGHTS Trucks 1214/1218/1318/1418/1420/1614/1615/1618/ 1620/1621/1622/1714/1718/1720/1721/1723/2314/ 2318/2418/2420 Chassis w / bus OF 113/1115 / 1215/1315 / 1316/1318 / 1320/1721 / OH 1315/1316 / 1318/1320 / 1721 / OH 1315/1316/1319/1419/1420/1521/1620/0371 / UL -ULP 1214/1418/1718/1721/2414/2418 97.5MM



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>MERCEDES- FORGED</b>			
OM09A	366.030.1102 366.030.0702 366.030.1402 366.030.1502 366.030.1602	OM 366 / A / LA / G  6 CYL	8 COUNTER WEIGHTS FASTENED WITH BOLTS Trucks 1214/1218/1318/1418/1420/1614/1615/1618/ 1620/1621/1622/1714/1718/1720/1721/1723/2314/ 2318/2418/2420 Chassis w / bus OF 113/1115 / 1215/1315 / 1316/1318 / 1320/1721 / OH 1315/1316 / 1318/1320 / 1721 / OH 1315/1316/1319/1419/1420/1521/1620/0371 / UL -ULP 1214/1418/1718/1721/2414/2418  97.5MM
OM09B	366.030.1602 366.030.1502 366.030.1402 366.030.0602	OM 366 / A / LA / G  6 CYL	12 INTEGRATED COUNTER WEIGHTS
OM11	355 030 6701	OM 355  6 CYL	NORMAL ASPIRATED 8 BOLT HOLES – 1 DOWEL
OM12	355 030 6801 345 030 1202	OM 355T  6 CYL	NORMAL ASPIRATED 12 BOLT HOLES – 1 DOWEL
OM13	345 030 0702	OM 355/6  6 CYL	NORMAL ASPIRATED
OM14	442 030 0801 442 030 0301 442 030 0901 442 030 0401	OM 442 A/LA  8 CYL	V8 (MOTOR N° 470879>)



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>MERCEDES- FORGED</b>			
OM15	422 030 4401 422 030 3701 422 030 4301	OM 422 A/LA  8 CYL	V8 (MOTOR N°>470878)
OM16	401 030 1901 401 030 2501 401 030 1501 401 030 2101 401 030 2301	OM 401 LA  6 CYL	V-6 EURO 1
OM17	447 030 0701 447 030 0801 447 030 0901 447 030 2401 447 030 0201	OM 447/H/A/ HA/LA  6 CYL	8 COUNTERWEIGHTS
OM18	651 030 1201 651 030 0401 651 030 0701 651 030 2501	MERCEDES SPRINTER 651  4 CYL	V-8 ACTOS
OM19	611 031 0201 611 031 0501 611 031 0001	OM 611 DE 22  4 CYL	V-8 SPRINTER / VITO
OM20	407 030 2101 407 030 1601	OM 407/A  6 CYL	4 COUNTERWEIGHTS



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>MERCEDES- FORGED</b>			
OM21	447 030 0701 447 030 0801 447 030 0901 407 030 2401 496 030 0201	OM 447H/A/ HA/LA OM 427H/A/ HA/LA OM 407/A  6 CYL	8 COUNTERWEIGHTS
OM22	402 030 2301	OM 402  8 CYL	V-8
OM23	402 030 3201 402 030 2901 402 030 3001	OM 402 LA  8 CYL	V-8 TURBO
OM24	457 030 0201 457 031 0001 496 030 0001 466 030 0501	OM 457 LA/ HLA /OM 458  6 CYL	8 INTEGRATED COUNTERWEIGHTS MOD. AXOR Engines OM 447 and OM 457 Trucks ATRON1635 / AXOR1933 / 2036/2041/2533/2536/ 2541/2544/2641/2644/2831/3341/3344/4141/4144 Older trucks : L 2635 / LS 1634/1935/1938/1941/1944 / 1945/2638 Chassis w / bus : 500 -MA- AU - UDA / MDA- RS- RSD / OH / OL 1635 / 0371 0400 - MTU / STEMAC : Generators Stroke 155mm
OM25	457 030 0401	OM 457  6 CYL	94 mm CRANKPIN
OM26	403 030 3001	OM 403  10 CYL	V-10



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<b>MERCEDES- FORGED</b>			
OM27	423 030 1501 423 030 3401 423 030 3301	OM 423/A/LA OM 443/A/LA  10 CYL	V-10
<b>LEYLAND- FORGED</b>			
LEY01	F3336611 / CCJ0004	400 / 401 / 402 / 411  6 CYL	BRITISH LEYLAND U.K. ASHOK LEYLAND BMC LEYLAND
LEY02		3 CYL	LEYLAND 245, 253
LEY03		3 CYL	LEYLAND MARSHALL 502
<b>MITSUBISHI- FORGED</b>			
MIT01		4 CYL	MITSUBISHI COLT T-120M-111 JAPAN
MIT02	ME013667 ME013668 (6 Holes)	3.3 L  4 CYL	MITSUBISHI 4D31/4D32 CANTER FE 444. FE 304, FB 211 FE Turbo Diesel Truck



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>mitsubishi- FORGED</b>			
MIT03	MD102601	2.5 L  4 CYL	MITSUBISHI 4D55 L-300 OLD MODEL PAJERO / L200 / L400
MIT04	MD374408 MD374409	4 CYL	MITSUBISHI 4D56 L-300 2.5 NEW MODEL
<b>MAZDA- FORGED</b>			
MZ 01	SL01 11 301 C	4 CYL	PICKUP VAN SWARAJ MAZDA
MZ 02	SL50 11 301 A / B	4 CYL	SL, T3500
<b>ARMSTRONG- FORGED</b>			
ARM01		2 CYL	ARMSTRONG SIDDELEY WITHOUT COUNTER WEIGHT 20HP
<b>ISUZU- FORGED</b>			
ISU 01	8971129812 8971465202 8971129813	4 CYL	4HF1/ 4HG1 NPR66 CHAMPION







Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>ISUZU- FORGED</b>			
ISU 02	8980292701 8973515343	4 CYL	4HE1 NPR
ISU 03	8980292700 8973525342	4 CYL	4HE1/4HK1T/4HK1 NQR 70/ 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
ISU 06	1123104480	6 CYL	ISUZU 6BG1
<b>DEUTZ-MAGIRUAS-M.W.M- FORGED</b>			
DZ01		F1L 411  1 CYL	5 H.P. COUNTER WEIGHT OPTIONAL



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>DEUTZ-MAGIRUAS-M.W.M- FORGED</b>			
DZ02	0223 3635	F1L 511 7.7 H.P.  1 CYL	COUNTER WEIGHT OPTIONAL
DZ03	0415 2745/ 20050551102	F2L 511 / D / W  2 CYL	WITH COUNTER WEIGHT AND SCREWS
DZ04	0415 2591/ 0223 2854/ 0292 9337/ 3371552/ 20050591203	F2L 912 / D / W  2 CYL.	WITH COUNTER WEIGHT
DZ05	0415 2646/ 0292 9338/ 210 556/ 2136928/ 2931044, 7513N	F3L 912 / D / W 2.8 L  3 CYL.	6240, 2250 WITH COUNTER WEIGHT AND SCREWS
DZ06	0415 2903/ 0213 8819/ 0292 9340/ 02931301/ 04150169/ 04152650/ 04232745/ 02931044/ 20050591204	F4L 912 / D / W  4 CYL	WITHOUT CENTER GEAR WITH COUNTER WEIGHT MINIBUS
DZ07	0415 2646/ 0292 9338/ 20050591214/ 2931048/ 7514N	F4L 912 3.8 L  4 CYL	WITH GEAR BIG MAIN / CONNECTING WITH COUNTER WEIGHT



Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>DEUTZ-MAGIRUAS-M.W.M- FORGED</b>			
DZ08	0415 1011/ 0292 9342/ 2136932/ 20050591206 04151011	F6L 912 / D / W  6 CYL	ASPIRATED WITH COUNTER WEIGHTS AND SCREWS
DZ09	02929345/ 02139405	BF6L 913 / C / T  6 CYL	ASPIRATED TURBO WITH COUNTER WEIGHTS AND SCREWS.
DZ10	4270236	2011  4 CYL	F4L2011/BF4L2011/BF4M2011  STROKE 125 mm CONNECTING PIN- 58mm
DZ11	4270236	1011F  4 CYL	F4L1011F/ BF4M1011F  STROKE 112 mm CONNECTING PIN- 55mm
DZ12	4270236	1011  4 CYL	BF4L1011/ F4L1011  STROKE- 105 mm CONNECTING PIN- 55mm
DZ13	M2931044		F3L912 New Generation



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>DEUTZ-MAGIRUAS-M.W.M- FORGED</b>			
DZ14	M2931048		F4L912 New Generation
<b>HINDUSTAN-FORGED</b>			
HS50		4 CYL.	HINDUSTAN SUPER 50
<b>CATERPILLAR-FORGED</b>			
CAT01	1W9771, 4N1112, 4N0012, 4N111X, 6N8290, 1W0400, 4N0111, 4N1111, 7N5137, 0R1206, 0R1209, 0R5024, 0R5164, 0R5474, 0R5560, 1W0400, 247-5130, 4N40012, 5430N,	3204 5.2 L 4 CYL	D3, 910, 916, 926, 926E, 931 Loader Wheel Loaders: IT12, IT14, IT18, IT28 WITHOUT GEAR
CAT02	4N7692, 2P6217, 4N7694, 9S771, 2W7960, 2Y4504, 5S5252, 0R1212, 2P7850, 0R1214, 2Y4515, 3Y1613, 2P1491, 0R5021, 5C3834V, 4N769, 2P1686, 0R5166, 5S3835, 0R5167, 2P6213, 0R5169, 5S5251, 4N7695, 2P6214, 0R5170, 247-5218,	3304 7.0 L 4 CYL	152.40 mm Earthmoving machinery 112F, 120G, 130G Motor Grader, 215, 225 Excavator, 518 Skidder, 920, 930, 955L, 963 Loader, 922B, 944, 950 Wheel Loader, 941, 941B, 951, 951B Traxcavator, 951C, 955K, 955L Traxcavator, Crawler Tractor, Industrial, Marine Truck
CAT03	4N7693, 1P1391, 4N7696, 5C3837, 2W7458, 1W8356, 4P9857, 5S5870, 4P7827, 2P2824, 2Y4517, 5S5871, 3348389, 2P2842, 4P7458, 5Y1546, 4P7958, 2P6219, 1P1390, 6N8079, 5C3836, 2P6221, 8M4502, 9S3057, 2W7458, 2Y4507, 9S2270, SP6222, 2Y5206, 0R5018	3306 B,C,DI,SP, I-6 10.5 L 6 CYL	152.40mm Earthmoving machinery D6 / 966 C / 120 L / 140 L / D 60 SR / D6 AND / D 60 DD / 966 R / D 60 OS 572F, 572G Pipe Layers, 621R, 627, 627B, 814 Wheel Tractor, 814, 815, 816 Compactors, 966, 966C, 977L, 980, 980B Wheel Loaders, 977K, 977L Traxcavators, D5, D5B, D6, D6C, D6D, D7, D7F, D7G Crawler Tractor, 627, 627B, 637, 637B, 637D, 639, 639D Scraper
CAT04	2327400, 2337009, 3642829, 4P9948, 1397018, 7C8214, 071Z724149, Z13071, 2218057, 7C3184, 3131-5666	3054/ 3056 4.0 L 4 CYL	127.00 mm Backhoe 416 AGCO / MASSEY : MF 5300/5310 tractors 416, 416C Backhoe, Cat Compactor: 426B, CB534, CB534B, CB534C, CB545 Forklifts: TH62, TH63, TH82, TH83, TH103



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>VOLVO- FORGED</b>			
VO01	1545657 467709 6888669 819449E 8966716	6 CYL	TD and THD 100/101/102 engines Trucks N 10 / NL 280/310/320/340 Chassis w / bus B 58 / B 10M F 10- N10 Stroke 140 mm Flange with 10 holes
VO02	812 67 80 819 43 04 (OLD) 819 44 56 812678	6 CYL	TD 101/102/103 THD 102 TD motors 102 and THD S Trucks NL 310/320/340 Chassis w / bus B 58 / B 10M Flange with 14 holes Stroke 140mm
VO03	468617 470681 688 87 40 470681-8	6 CYL	TD 120, TD 121, TD 122, TD 123 (->186746 ENGINES) Trucks N / NL 12 - EDC 360/420 Chassis p / B bus 12M F12-N12 Flange with 10 holes Stroke 150mm
VO04	612 55 83 819 37 27 478676 8125583	6 CYL	TD 122/ TD123 engines ENGINE NO (186747->) Trucks NL 12 360 / 360/420 EDC Chassis p / B bus 12M F12 - N12 Flange with 14 holes Stroke 150 mm
<b>SUZUKI- FORGED</b>			
SZ01	12221-75101 1221-75102 12221-75104	SJ-410  4 CYL	SUZUKI 1000cc ENGINE MARUTI GYPSY SK410 CARRY
SZ02	12221-73001 1221-78401	LJ-80  3 CYL	SUZUKI 800cc ALTO CARRY, SUZUKI F8





Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>JAGUAR - FORGED</b>			
JG01	AJV6D	3.0L  6 CYL	JAGUAR XF CRANKSHAFT
<b>CHALLENGER - FORGED</b>			
CH01		4 CYL	Challenger MT434, MT434
<b>VOLKSWAGEN - FORGED</b>			
VW01	25 0105021/ 2T 0105021B	6 CYL	Trucks- 17 250e/ 24 250e STROKE 120 MM
<b>KUBOTA - FORGED</b>			
KU01	1532 /23010	3 CYL	L295 / 295DT TRACTOR
<b>KOMATSU- FORGED</b>			
KO01	6732-31-1100	4D102  4 CYL	
KO02	6735-01-1310	6D102  6 CYL	



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>KOMATSU- FORGED</b>			
KO03	6745-31-1120	6D114  6 CYL	
<b>RENAULT - FORGED</b>			
RT01		3 CYL	12-14 Series 70-12 SP, 70-14 SP, 80-12 SP, 80-14 SP 32-34 Series 70-32, 70-34, 80-32, 80-34 Ceres Ceres 75, Ceres 75 X Ceres 75 X-4, Ceres 75-4
<b>TOYOTA - FORGED</b>			
TY01		4 CYL	Bandeirant 1973 to 1989 LAND CRUISER
TY 02		4 CYL	Bandeirant 1989 to 1994 LAND CRUISER
<b>AVIA - FORGED</b>			
AVCS 65	D21-65-00	4 CYL	
<b>DAIHATSU- FORGED</b>			
DA01	DL/DJ	4 CYL	88.00 MM



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>IFA - FORGED</b>			
IFA01	0692-01 2795971006	W-50  4 CYL	BOLTED COUNTER WEIGHT FORT SCHRITT 300-303
<b>NISSAN - FORGED</b>			
NI01	12200V1301	SD25 2.5L  4 CYL	ALLWYN NISSAN 1984 NISSAN 720 Deluxe 720 Pickup
<b>WILLYS JEEP- FORGED</b>			
WJ01	647018	  4 CYL	COUNTER WEIGHT FASTENED WITH BOLTS CJ3A, CJ3B, CJ5, CJ6, M38, M38A, DJ31, Station Wagon, 4X463, 473, 4X473, 475, 2X475, 4X475, Trucks 4WO, 473-440 475-4WO, FC150, L134, F134
<b>ALLIS CHAMBERS - FORGED</b>			
AC01	70280077	  3 CYL	ALLIS CHAMBERS 160
AC02	71005059	  4 CYL	ALLIS CHAMBERS 170, 175
<b>STEYR - FORGED</b>			
ST01	4080020017	  4 CYL	STEYR 8073/768 WD 408.40



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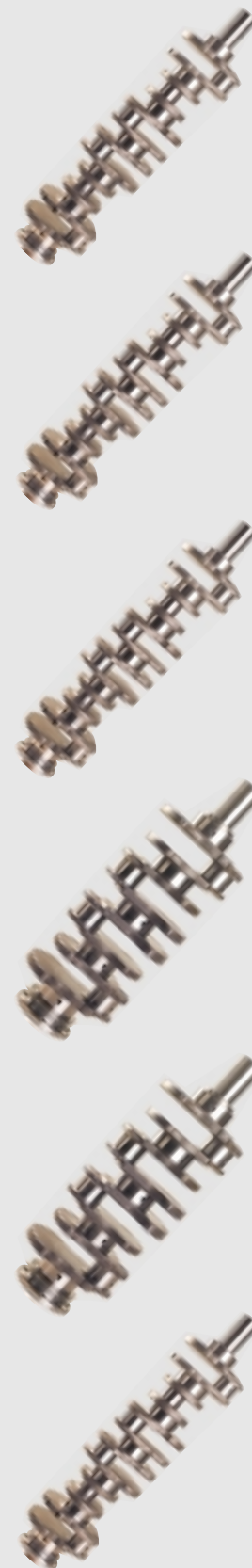
Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>STEYR - FORGED</b>			
ST02	3080020029	3 CYL	STEYR 8043/8053 WD 308-46.3
ST03		3 CYL	360 KOMPACT
<b>JCB - FORGED</b>			
JCB01	02101825	4 CYL	<b>Loader</b> 410, 520, 525-58, 525-67, 530-110, 530-120, 530-95 <b>Loading Shovel</b> 412, 415 <b>Sitemaster 3C</b> <b>Sitemaster 3CX</b> <b>Sitemaster 3D</b> <b>Sitemaster 4C, 4CN</b> <b>Telescopic Handler</b> 520, 525, 530, 140, 1400 B, 1550 B, 214, 409 TM, 502-22, 506-36, 520 HL, 520 M, 525 B, 525 B-HL, 530 B, 540 B, 540 BM, 811, 909 Turbo, 910, TM200
<b>LADA - FORGED</b>			
LA01	BA869699	4 CYL	LADA PETROL FIAT 1100
<b>HYUNDAI - FORGED</b>			
HU01	2311142002 / 2311142901	4 CYL	HYUNDAI D4BB H-100 Minibus GALLOPER / H / HR100
HU02	2310041700	4 CYL	HYUNDAI D4AA-D4FB HD72/HD77 H-350 Truck



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>TATA - FORGED</b>			
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



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>TATA - FORGED</b>			
TA07		4 CYL	TATA 407
<b>HINO - FORGED</b>			
HN01	13411-1592	4 CYL	HINO 4D HINO WO4D
HN02	X3310211	6 CYL	HINO 6D Also suitable for Ashok Leyland 6D engine Hino H07C
HN03	F3349611	6 CYL	HINO 6E Also suitable for Ashok Leyland 6E engine
<b>EICHER CANTER - FORGED</b>			
CA01		4 CYL	EICHER CANTER
CA02		6 CYL	EICHER CANTER



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<b>EICHER CANTER - FORGED</b>			
CA03		6 CYL	EICHER JUMBO 2016
<b>KIRLOSKAR - FORGED</b>			
KIR01	2H002100	2 CYL	KIRLOSKAR HA2
KIR02	3H002100	3 CYL	KIRLOSKAR HA3
KIR03	4H002100	4 CYL	KIRLOSKAR HA4
KIR04	6H002100	6 CYL	KIRLOSKAR HA6
<b>CHRYSLER / DODGE - FORGED</b>			
CHR01		6 CYL	RAM (ELET)



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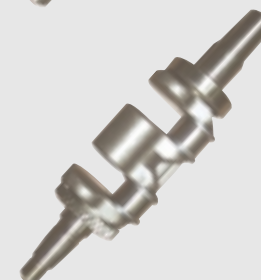


Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>CHRYSLER / DODGE - FORGED</b>			
CHR02		6 CYL	RAM (MEC)
<b>GM / CHEVROLET - FORGED</b>			
GM1		4 CYL	D10 / D20 / D20 PLUS / D40 BONANZA GMC6100
<b>HINDUSTAN SUPER - FORGED</b>			
HS50		4 CYL	HINDUSTAN SUPER 50
<b>KIA - FORGED</b>			
KI 01		4 CYL	BONGO 2500
<b>LAND ROVER - FORGED</b>			
LR 01		3.0TD  6 CYL	LAND ROVER DISCOVERY SDV6
LR 02	4U3GA3	3.0L 2.7L  6 CYL	RANGE ROVER TD V6 / RANGE ROVER SPORT



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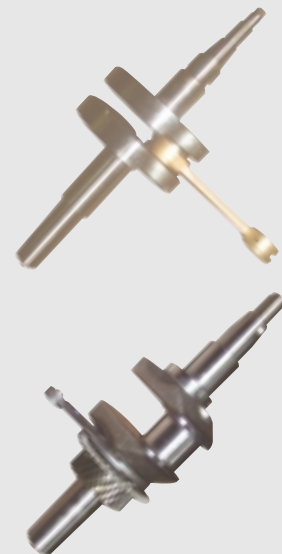
Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>LONG TRACTOR - FORGED</b>			
LG 01	TX10170 TX15106	3 CYL	2360, 2360DTC, 2460, 2460DTC, 2460SD, 2460SD-DTC, 2510, 2510DTC, 2510SD, 2510SD-DTC, 350, 360, 360C, 445, 445DT, 445SD, 445V, 460, 460DT, 460SD, 460V, 510, 510DT
<b>MC CORMICK - FORGED</b>			
MC 01		4 CYL	CX Series CX100, CX70, CX80, CX90
<b>MACK - FORGED</b>			
MA 01	456GC2125 456GC5113 456GCF586	E-6  6 CYL	
<b>MATBRO- FORGED</b>			
MAT 01		4 CYL	MATBRO 266 TS
<b>KAWASAKI- FORGED</b>			
KA 01	EZGO 603531	1 CYL	KAWASAKI engine for EZGO gas 2008-up RXV
KA 02	EZGO 72503-G01 CART PARTS CP72503-G01	2 CYL	Crankshaft 350cc for EZGO gas 1996-02



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>KAWASAKI- FORGED</b>			
KA 03	CART PARTS CP17443-G1	1 CYL	EZGO gas 2Cycle 1980-88
KA 04	CART PARTS CP1019223-01	1 CYL	Crankshft with clockwise rotation for Club car gas 1997-03 DS and precedent FE290
<b>MAN- FORGED</b>			
MAN 01	51.02101.7405 / 51.02101.7390	D2566 (280/281)  6 CYL	8 COUNTERWEIGHTS
MAN 02	51.02100.6019 / 51.02100.6081 / 51.02100.6037 / 51.02100.6043 /	D2866  6 CYL	
MAN 03	51.02100.6018 / 51.02100.6082 / 51.02100.7706 / 51.02100.6038/ 51.02100.6044/	D2876  6 CYL	
MAN 04	51.02101.7705 / 51.02101.7515 /	D2566 / 2866  6 CYL	4 COUNTERWEIGHTS



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Ref.No.	Original Part No.	Motor & Engine	Description / Remarks
<b>MAN- FORGED</b>			
MAN 05	51.02101.7599	D2848  6 CYL	V8
MAN 06	51.02101.7204	D2538  6 CYL	V8
MAN 07	51.02101.7262 / 51.02101.7468	D2556  6 CYL	8 COUNTERWEIGHTS

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# 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 resistimos 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 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 Zurückerstatten 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 möglichem 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 survivons 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 promovons 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 tespit edilen malların onarımını ve/veya birbiriyle değişimini de garanti ederiz. Degistirilen mallar bize aittir. Bu garanti kapsamına su kayıplar girmez: Kar Kaybı, montaj masrafları, gümrük ücretleri, yurtdışı navlun, tüm yerel ücretler v.s.. Tarafimizdan Yüklenmiş mallarda nakliye esnasında meydana gelen hasar ve/veya hatalardan ve/veya değişikliğe 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 tekabül ettiğini ve onlarla degistirilebilir 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, mallar bedelsiz olarak gönderilecek ve yükleme masrafları ancak kalite kontrol departmanımızda yapılacak inceleme sonucunda talep haklı bulunursa geri ödenecektir.

## CONTACT INFORMATION

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**Fax** : +91-22-26842860

**E-mail** : balucrank@gmail.com, sales@baluindustries.com

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**Phone** : +91-831-470705

**Mobile** : +91-9821557841

## BANK DETAILS

**Name of the Beneficiary** : **BALU INDIA**  
361, V. P. Road, Opera House, Mumbai-400 004, INDIA.

**Name of the Bank** : **Union Bank of India**  
Opera House Branch, Tejura Chambers, 1st Floor, 365-367,  
V.P. Road, Near Sai Dham Temple, Opera House,  
Mumbai-400 004, India.

**Phone** : +91-22-23889975, 23889682

**Fax** : +91-22-23824582

**Account No.** : 318801010012232

**Swift Address** : UBININBBXOPH or UBININBBXXX

**Swift Address** : IRVTUS3N

**Name of the corresponding** : **Bank of New York**

**Bank in New York** : 48, Wall Street, New York, 10286, USA

**Their ISB Account No.** : 803-3163-429

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# BALU INDIA



COMPANY WEBSITE



COMPANY MOVIE

## Corporate Office :

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