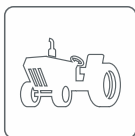


JAY METAL

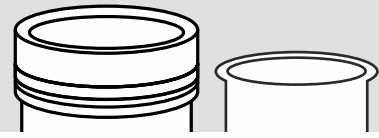
LINERS & SLEEVES

IATF 16949:2016 certified



www.jaymetal.in

ABOUT US



JAY METAL is an **ISO 9001:2015** and **IATF 16949 : 2016** certified company and is one of the leading manufacturer and exporter of Cylinder Liners, Sleeves. With a highly experienced and technically qualified team of 350 plus employees, Jay Metal produces highest quality products at the most competitive prices. The promoters have experience and expertise of 40+ years in manufacture and production of liners, sleeves, blocks and other automobile components.

Our main goal is to supply the best quality parts at competitive prices. We follow the best practices in the industry for all our manufacturing process which reflects in the products that we manufacture.

Our highly qualified engineers work continuously to improve the product quality by in-house R&D activities and by tweaking the manufacturing processes from casting until packing. By following rigorous quality assurance process at each level of production, we strive to excel in all the manufacturing activities and thus be one of the best manufacturer and supplier of quality Cylinder Liners and Sleeves.

Group of Companies

JAY METAL

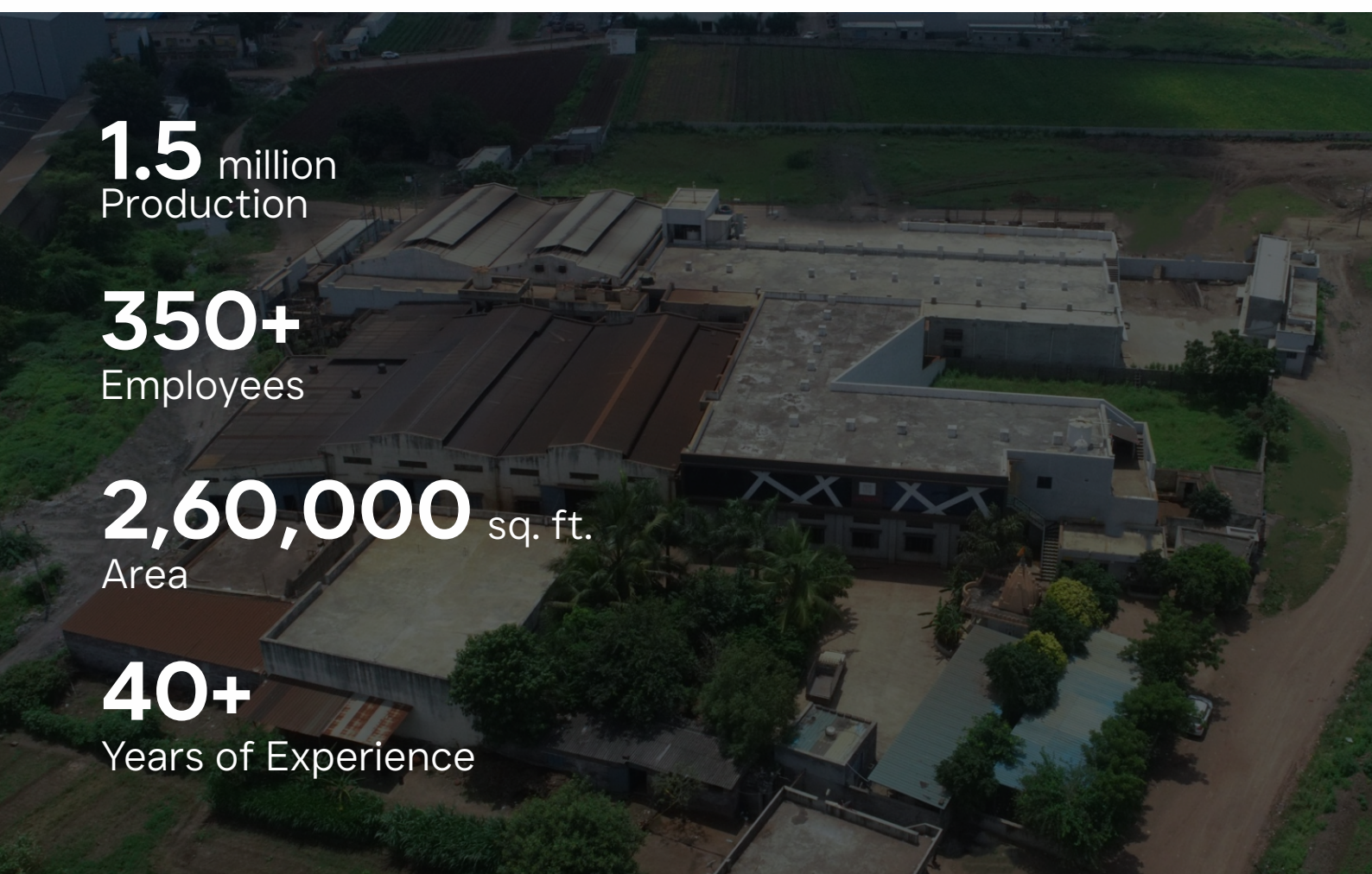
JAY ENGINEERING

1.5 million
Production

350+
Employees

2,60,000 sq. ft.
Area

40+
Years of Experience



QUALITY



CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV INDIA hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

JAY METAL
Survey No. 78, BH Gold Coin,
Shapar (Veraval), Tal: Kotda Sangani,
Dist: Rajkot - 360 024, Gujarat,
India



operates a management system in accordance with the requirements of ISO 9001:2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -
Manufacture and Supply of Cylinder Liners and Sleeves.

Certificate Registration No. **QM 02 01097** Valid from **11.09.2023**
Audit Report No. **Q 5253/2013** Valid until **02.09.2026**
Initial certification **03.09.2017**

Certification Body
at TÜV INDIA PVT. LTD. Mumbai, 11.09.2023

TÜV India Pvt. Ltd., 801, Rajeev Plaza - 1, L.B.S. Marg, Ghankopar (W), Mumbai - 400 096, India cert.helpdesk@tuvindia.co.in





Certificate

Standard **IATF 16949:2016**
(1st edition, 2016-10-01)

Certificate Registr. No. **01 111 2336367**
IATF Certificate No. **0508793**

Certificate Holder: **JAY ENGINEERING**
Survey No. 78p2, Plot No. 2, Behind Gold Coin Foam,
Shapar (Veraval), Rajkot - 360024, Gujarat,
India


IATF USI: **YWC9KW**

Scope: **Manufacture of Cylinder Liner & Sleeve**
Excluding Product Design

Proof has been furnished by means of an audit that the requirements of IATF 16949:2016 are met.

Validity: **The certificate is valid from 2024-04-01 until 2027-03-31.**

Release date: **2024-04-02**


2-IAO-QMC 01003

TÜV Rheinland Cert GmbH
Am Grauen Stein 51105 Köln
Germany - NRW

www.tuv.com 
Precisely Right.

1 / 1

Product Specifications

Dimension	Range (in mm)
Bore dia.	60 to 160
Total length	100 to 400

Technical Specifications

Micro Structure

Graphite type	“A” & “B” (“D” & “E” Random)	
Flake size	4-7 Microns	
Free ferrite	Less Than 5%	
Matrix	Lamellar Pearlite	

Chemical composition	Minimum	Maximum
Carbon	2.90	3.50
Silicon	1.80	2.50
Manganese	0.60	1.00
Phosphorus	0.20	0.50
Chromium	0.20	0.50
Sulphur	0.00	0.12
Moly	As Required	
Copper	As Required	
Nickel	As Required	
Boron	As Required	
Vanadium	As Required	

Hardness (BHN)
Tensile

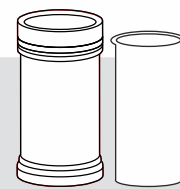
210 to 280

210 to 275 n/mm2

We offer more than
1000 types of
Cylinders Liners and Sleeves.



INFRASTRUCTURE



Foundry Facilities



RAW MATERIAL STORAGE

Boasting a spacious **4,624 sq.ft.**, our raw material storage facility ensures ample space for efficient and organized inventory management.



FOUNDRY

Jay Metal takes pride in its cutting-edge Foundry. Spanning an impressive **25670 Sq.ft.**, this facility stands as a hub of innovation and precision, featuring **5 induction furnaces** With melting capacity of **850 tons**, per month.



POURING

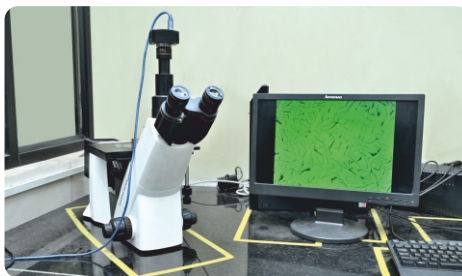
To enhance quality, it is crucial to regulate the temperature and RPM of the **Centrifugal Die Casting** for better results.

Metallurgical Lab



SPECTROMETER

Within our infrastructure, we adhere to stringent practices for raw material inspection, ensuring meticulous monitoring of chemical composition to enhance the durability of liners for prolonged service life.



MICROSCOPE

As part of our operational practices, we utilize microscopes to scrutinize the microstructure of liners, diligently maintaining **"A" & "B"** graphite structure. This commitment contributes to enhancing the strength of our liners, showcasing our company's dedication to quality and performance.



HARDNESS TESTER

In our commitment to delivering superior quality liners, we employ a hardness tester to meticulously inspect the hardness of our products, ensuring that our customers receive liners of the highest quality.

Machining Shop



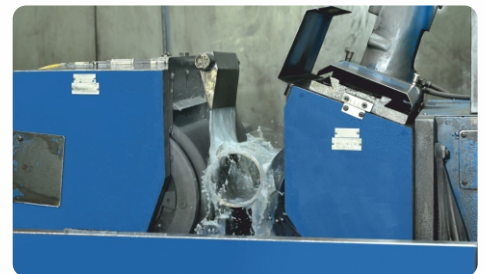
CNC MACHINING

Inner and outer diameter machining is done on latest cnc machines to give high accuracy in dimensional parameters, surface roughness & geometrical parameters.



PLATEAU HONING

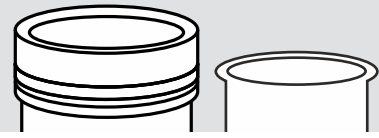
Honing process on Air sizing plateau honing machine is to achieve required quality parameters like surface finish Ra, Rt, Rmax, R3z, Rp, MR1, MR2, etc. with process control indicators like Cp/Cpk.



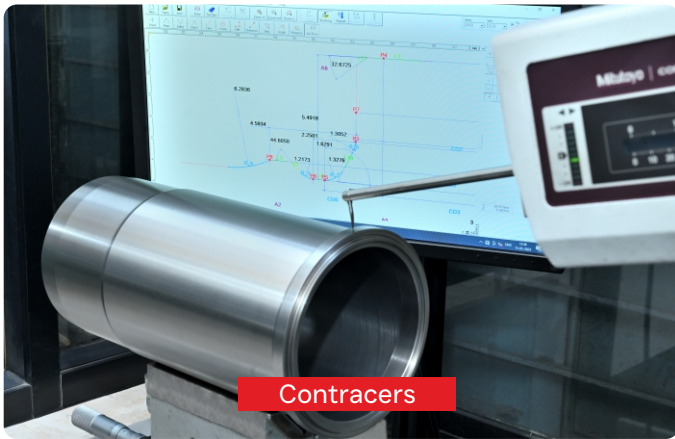
GRINDING PROCESS

With the latest technology centerless grinding machines to achieve better results.

INFRASTRUCTURE

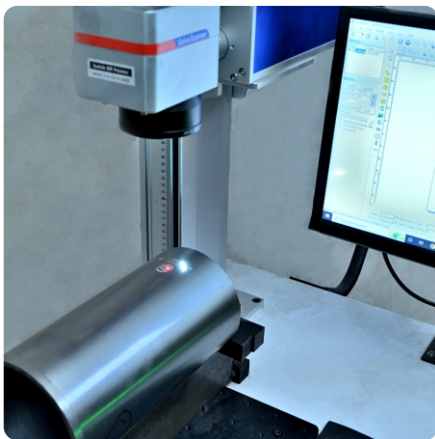


Quality Control



Our highly equipped quality control center ensures that each product meets the highest standards. Equipped with industry-leading Mitutoyo-made digital height gauges, Contracers, roundness testers, roughness testers, and digital visual cross-angle checking machines, we leave no stone unturned in guaranteeing the excellence of every item that leaves our facility.

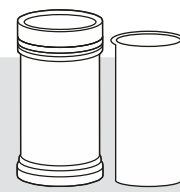
Packing & Dispatch



Packing Area

Jay Metal have a large **18,000 sq.ft.** packing area with automatic ultra sonic cleaning machines and safe and organized storage area to deliver better experience

PRODUCTS



Tractor Applications



Automotive Applications



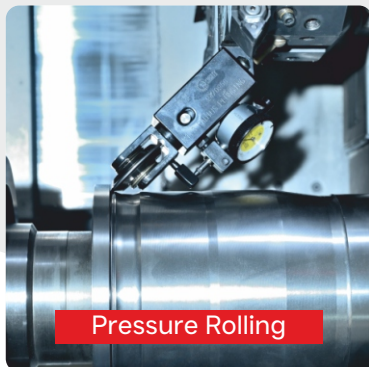
Heavy Commercial Applications



Industrial Applications



Heat Treatment



Pressure Rolling

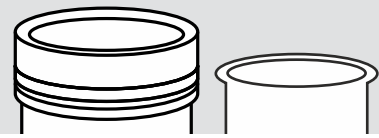


Chrome Plated

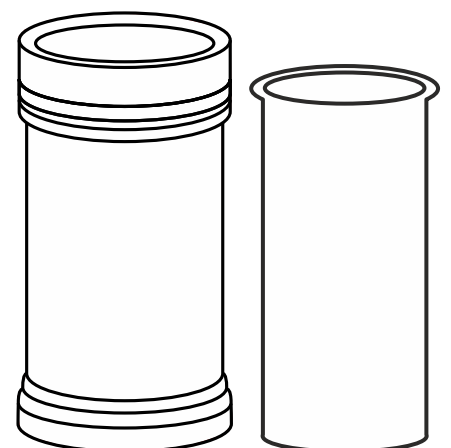


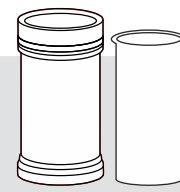
Pressure Knurling

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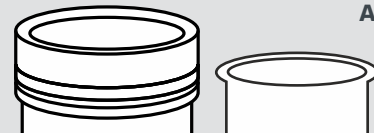
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ANDORIA			
1	4C90	150612 / 553WT01	90
2	S102		102
3	SW226	553WT03	107.29
4	4CT107	553WT02	107.29
5	6CT107	553WT06	107.29
6	S320(18H.P.)	150234	120
7	S321(27H.P.)	150762	135

ASIA			
1	KH	11467-1200/1210/1220/1222	110

AUDI			
1	CN, CR, CY, DE, JK, NC, RA, SB, YJ	14-028360-00 / 89163190	76.5
2	L4TD, 74KW(100PS)		76.5
3	1Y, 1Z, 3D, AAS, AFF, AFN, AJM, AMF, BHC	029WV20 / 89434190	79.5

AUSTIN			
1	ABCMARINE		55.88
2	803CC	SU2291	57.912
3	997CC		62.42
4	ASERIES	SU2893	62.916
5	A+SERIES-1100		64.567
6	A+SERIES-1100	SU3367	64.567
7	1200CC		65.47
8	1200CC		65.47
9	ASERIES, A+SERIES-1300	SU3598	70.612
10	BSERIES	SU3270	76.187
11	ESERIES	SU4245	76.2
12	2199CC		79.362
13	BSERIES		80.251
14	OHV		80.251
15	22UA		82.55
16	TAXICAB		82.55
17	OSERIES		84.442
18	EASERIES25U		84.938
19	3993CC		87.312
20	EASERIES		88.9



SR NO.	ENGINE	REFERENCE NO.	BORE
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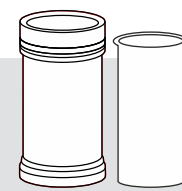
ALFAROMEIO			
1	AR675.01	007WV44 / 89386190 / 14-014730-00	82.6
2	154A2.000		84
3	VM07B/08/031/32, VM81A/82/84/96	14-676420-00 / 89185110	92
4	8140.21	007WV43 / 89183190 / 14-022560-00	93
5	8140.61	3003473	93

ALLISCHALMERS			
1	B125	208743	85.725
2	D175, D262, D262, DA262	4061520	90.5

AEC			
1	AH505, AV505	A157194 / 141WV02	115.9
2	TF-10		120
3	L12, TL12	A257136 / 141WV12 / 88890180	136.538
4	TL12		136.538
5	AH760, AV760	A151792	136.538
6	AH760, AV760	A157192 / 141WV11	136.538

AMZ			
1	YaMZ-236, YaMZ-238, YaMZ-240M.	236-1002021A	130
2	A-41, A41C, A-01M, A-01MA	01M-0102	130
3	YaMZ-236BE2, 236NE2, 238BE2, 238DE2,	7511.1002021-10	130
4	YaMZ-236, YaMZ-238, YaMZ-240M.	236-1002021-A5	130

ARO			
1	810, R99	021WN09 / 88544110 / 15-636590-00	73
2	1.4ENGINE	021WN23 / 89060110 / 15-630820-00	76



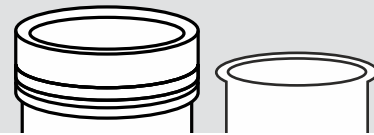
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BEDFORD			
1	1057CCHA		74.295
2	1159CCVAN		77.749
3	4.108	31358117 / SU553201	79.375
4	1570CCCA		79.378
5	1.6D	SU351283	80
6	1594CCVAN		81.636
7	214	SU2083	85.725
8	C190		86
9	C190		86
10	200300	6305986 / 069WT02	98.4
11	330	7216719 / SU497303 / 7191818	103.175
12	220, 2611CC, J330, 5417CC	069WV03 / 88041190 / 14-021140-00	103.175
13	220, 330VAUXHALL	069WT04	103.175
14	220, 330VAUXHALL	069WT05	103.175
15	60SERIES		104.775
16	50OPHASEII		115.888
17	466	7191609 / 069WV07 / 88679190	115.888
18	50OPHASEI-II	89338110 / 069WV08 / 89338110	115.888

BELARUS			
1	T25		105
2	MTZ 80		110

BENDIX			
1	TF 400	201261	51.638
2	TF 500	25001	62.738
3	TF 501	262501	65.53

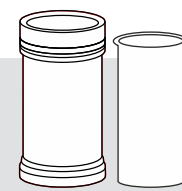
BMC			
1	COMPRESSOR		66.75
2	1489CC11, 2LI		73.012
3	TM251622CC, A60154TRACTOR		75.5
4	TM301798CC1.8TD		79.5
5	EASERIES		84.939
6	2520CC		88.9
7	BMC6, 98NV	137WN10 / 14-452080-10	98
8	LEYLANDAUSTINBMC3.8	463WN03 / 88337110	100
9	LEYLANDAUSTINBMC3.8	463WN05 / 88685110	100
10	LEYLANDAUSTINBMC3.8	37D1837 / 463WN04	100



SR NO.	ENGINE	REFERENCE NO.	BORE
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CASE			
1	88.912mm		88.912
2	92.090mm		92.09
3	D-179, D-239, 358	3139592R4	98.425
4	D-361, DT-361	3144447/3139587R3	98.425
5	D-268, D-402	3144682R3	100
6	BD-264	31114887R1	101.6
7	DT-466P, NGD	1815674C1	109.22
8	A-301BD, A-451BD	A59093	111.13
9	A-301BD, A301DF, A-451BD	A23660	111.13
10	A336BD, A504BD	A153638 / WS537 / 2264476	117.475

CHEVROLET			
1	MALIBU Turbo		74
2	COBALT		74.5
3	NEXIA		76
4	LADA-2103		76
5	NEXIA		76
6	EPICA		76.5
7	LADA-2106		79
8	LACETTI		80
9	LACETTI		80
10	LADA-2123		82
11	LADA-2123		82
12	140		85.725
13	MALIBU2-2.0		86
14	MALIBU1-2.4		87
15	MALIBU2-2.5		88
16	CAPTIVA		88.5
17	CAPTIVA		88.5
18	153		98.425

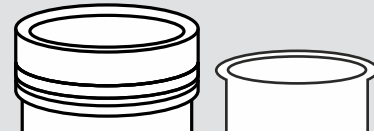


SR NO.	ENGINE	REFERENCE NO.	BORE
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CATERPILLAR			
1	30643066		101.6
2	S6K7		102
3	3116	7C6208	105
4	C-7		110
5	3126		110
6	3,208,316,011,603,200	9N6275 / 127WV11 / 89191190	114.3
7	D315, D318, DW10	127WNO2 / 88068110	114.3
8	D4, LD-120, D330C, 3304	2P8889 / 127WNO7 / 89303110	120.65
9	D330, D336, DL151	127WNO7 / 89303110	120.65
10	DW20		130.175
11	DW20		130.175
12	D3403, D3406, D3408, D3409	2W6000 / 1260739 / 6N8700 / 127WNO9 / 89041110	137.16
13	C18	3221126	145
14	D339, D342T	8N5676 / 127WNO6 / 89307110	146.05
15	D398, D353, DOZERD9G	8N9174	158.75

CHRYSLER			
1	170, 198, 215SLANT6		86.36
2	2.5TD		92
3	ENC, ENJ	5066748AA	92
4	273		92.071
5	245		95.25
6	D400	31358341 / SJ584201	98.476
7	265, 318		99.314
8	360V8		101.6

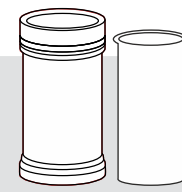
CITROEN			
1	RI, UD, IRK-VISA129, 5	021WN26 / 89584110	75
2	C-77		77
3	XUD7(161A), 19A	140248300 / 039WV23 / 89316190	80
4	XUD9, A, B, 162		83
5	BX	039WN24 / 89301110 / 14-634910-00	83
6	B22.615, M22, 621		90
7	M25, 629, 660, B25, 637		93
8	XD3P		94
9	814043S		100.046



SR NO.	ENGINE	REFERENCE NO.	BORE
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COMMER			
1	1256CCMARKIV		65.088
2	875CCVAN		67.986
3	1390CCMARK-VIII		76.2
4	1494CCOHV		78.999
5	2256CCOHV		80.962
6	1592CCMARKIV		81.539
7	2.26LITRE		84.176

CUMMINS			
1	B6T-590, B4TA-390, B6-590	14-020610-00	102
2	3BT, 4BT, 6BT	3904166 / 286WV02 / 89630110	102
3	JBS600	1177WL	104.77
4	6CTC	3919937 / 14-740010-00	114
5	C2000	3800328 / 3907177 / 89735110 / 14-740020-00	114
6	6CTA	3907792 / 14-745340-00	114
7	V6-155, V8-210	3022530 / 3277592 / SJ351161	117.475
8	V555, VT225, VT555	3022529 / WS506	117.475
9	NH220, NT-165, NHC4	BM98224	130.175
10	NT855, NTA655, 855SERIES	3046325 / 3055099 / 89833110	139.7
11	V903, VT903	203170	139.7
12	KT450, KTA600	3028122	158.75
13	KT450, KTA600	3022157	158.75
14	KT450, KTA-600	3028434	158.75



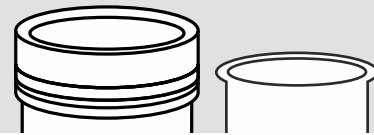
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DAF			
1	55SERIES	021WN08 / 88384110 / 14-635060-00	70
2	DS, DSD, DD575, DS575M	310376 / 258468 / 137WT02 / 88253110 / 14-025520-00	100.615
3	CD85, CN95, CT97L	286WV02	102
4	DN, DNT, DNS620 (1900)	213WT07	104.17
5	DF, DT, DTD615 (1600) (1900)	212275 / 220095 / 213WT01 / 88547110 / 14-025530-00	104.175
6	PE265, RS222, RS200, PE228	213WT09 / 89501110	118
7	DHS, SHU, SHTD, DU, DHB (2100)	240474 / 257340 / 396855 / 213WT02 / 88624110 / 14-024070-00	118
8	RS180, 200, 222	159288 / 213WT08 / 88624110 / 14-024070-00	118
9	DKS, DKSE, DKXE (2800)	241054 / 0394080 / 396080 / 213WT03 / 88640110 / 14-021410-00	130
10	DKB1160	159289 / 213WT05 / 89413110	130
11	MX, XF	1865154 / 1812652 / 1819534 / 1696993 / 213LW00100 / 89861110 / 15-451230-00	130

DAIHATSU			
1	CLT		76
2	CL		76
3	DE, DV22		85
4	DG, DV32L		88
5	DG	1146187302 / SJ351324	88
6	DL	1146187303 / SJ351321	92

DAMAS			
1	DAMAS		68

DAVIDBROWN			
1	AD4/41, AD4/47	SJ528201	92.07
2	AD4, 55T, AD6, 55, AD6, 55T	14-010950-00	100.046
3	AD3-49, AD3-55, AD6-55, AD6-55T		100.046
4	995, 996AD4, 55		104.05

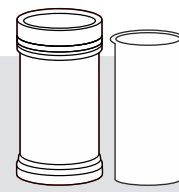


SR NO.	ENGINE	REFERENCE NO.	BORE
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DETROIT DIESEL			
1	53SERIES, 6V53T	5132803/5121521	98.43
2	2-71, 3-71, 4-71, 6-71, 71Series	5149211	107.95
3	4-71E, 6-71E, 6V-71	5113953/23502022	107.95
4	8.2T		108
5	DETROIT 115mm		115
6	6V-92T, 92SERIES	5.15E+13	122.936
7	C60, S60SERIES	23531249/23523948	130
8	DD15 09030	14720111210	139

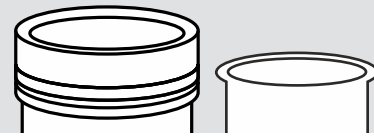
DEUTZ			
1	F2L, F3L, BF4L1011	04170347 / 04179444 / 099WT26 / 89423110	91
2	1011	89423110 / 14-029750-00	91
3	BF4M, BF6M1012	099WT27 / 89447110 / 14-020490-00	94
4	2011	14-021870-00	94
5	2012TCD		98
6	D6D		98
7	9833, BF	4250003 / 101WT25 / 89830110	98
8	2012Normal	14-021990-00	101
9	BF4M1013C	04203055 / 04253771 / 04203065 / 04253933 / 04253936 / 4282012 / 04282014 / 101WN16 / 89 409 110	108
10	FL1015	101WN24 / 89443110 / 14-450960-00	132
11	TDC2015	4263248 / 101WN26 / 89882110	132
12	BF16M716	2158473 / 099WN17 / 88834110	135
13	BA6M816	4001661 / 099WN19 / 89039110	142

DONGFENG			
1	CM-180		80
2	CM-195		95
3	S-1, 2R		100
4	100mm		100

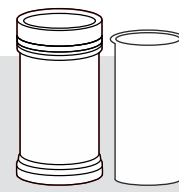


SR NO.	ENGINE	REFERENCE NO.	BORE
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EICHER			
1	ED1D, ED2D, ED3D		115.03



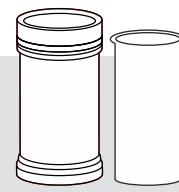
SR NO.	ENGINE	REFERENCE NO.	BORE
FIAT			
1	100GC, 100GS.0200	21205402	65
2	A112B1.054		67.2
3	127AB, AJ, AE		76
4	127A.5	007WV69	76.05
5	127A.5	007WV69	76.05
6	146B	21234302 / SU351422004 / 007WV68 / 89332190 / 14-021421-00	78
7	146B	21234302 / SU351422004 / 007WV68 / 89332190 / 14-021421-00	78
8	126A2		80
9	128A, AC, BB.OA1138A, B	21204802	80
10	126A2		80
11	128A, AC, BB.OA1138A, B	21204802	80
12	132A, B	21204002	80
13	149B3, B4		82.6
14	138B6		83
15	138B6	21231602	83
16	131A1, AF1, B1		84
17	M611CA20A, C, M619AA2.0		84
18	131A1, AF1, B1	21206102	84
19	M611CA20A, C, M619AA2.0		84
20	614.01, 615D		85.9
21	8140.21	4860109 / 007WV46 / 89319190 / 14- 021480-00	93
22	8140.21		93
23	8140.61, 8144.61, 8142.61		93
24	8140.61, 8144.61, 8142.61		93
25	8140.58, 8140.61, 8140.67, 8144.81	007WV43 / 88319190 / 14-022560-00	93
26	8035.01, 8045.01, 225.250	4599357	95
27	852A, 8025.01, 8035.01, 8045.01	4599351 / 007WV07 / 88593190 / 14- 010620-00	95
28	8035.02, 8045.02	21215702 / 007WV09 / 88631190 / 14- 010170-00	100
29	8025.02, 8035.02, 8045.02	4653280 / 007WV09 / 88631190 / 14- 010170-00	100
30	8035.06, 8045.06, 8065.06		100
31	8035.04, 8045.04, 8055.04, 8065.04		103
32	8035.04, 8045.04, 8055.04	4679209 / 007WV40 / 89080190 / 14- 010180-00	103
33	8035.05, 8045.05		104
34	8065.25		104
35	CN3, C03, CP3	88159400000000 / 233WNO4 / 88827110 / 14-611250-00	110



SR NO.	ENGINE	REFERENCE NO.	BORE
FIAT			
36	88827.110AX		110
37	2208200.1		120
38	2208200.1		120
39	8205.02	007WT13 / 88599110 / 14-020200-00	122
40	8205.02		122
41	8215.02	21215902 / 007WT24 / 88600110 / 14-021560-10	137
42	8215.02		137

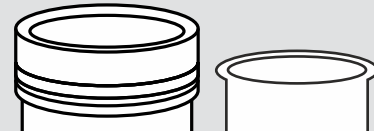


SR NO.	ENGINE	REFERENCE NO.	BORE
FORD			
1	100E	SU2547	63.5
2	4.108	31358117 / SU553201	79.37
3	108E, 107E, 307E, 113E, 116E, 122E	SU3166	80.95
4	113E, 116E, 120E, 122E	8N6055B	80.95
5	108E, 107E, 307E		80.95
6	UPRATED711M	SU4026	80.95
7	1558CC		82.55
8	1.6		87.67
9	3.144	B3NN6055A	88.925
10	1993CC	6055A, SU4255	90.82
11	3.152, A3.152	043WN07 / 88363190 / 14-480320-00	91.491
12	3.152, A3.152	31358345 / 043WT08 / 88552110 / 14-480320-00	91.491
13	2401EYORK, 2402EYORK	6048826 / 014WV04 / 89032190 / 14-014090-00	93.645
14	101, 2601E, 2603E, V4, V8		93.647
15	XD2, XD2D, XD3	039WV16	94
16	FORDSONMAJOR - OLD		100
17	FORDSONMAJOR - NEW	1710301 / 017WN04 / 88145110 / 14-370870-00	100
18	2701E, 2706E, 4D240 2704E, 2709E, 6D330	2701E6055B / 014WV02 / 88141190	104.775
19	2701E, 2706E	2704E6055B	104.775
20	2704ET, DSERIES	7333F6102GAB / 014WV07 / 89167190	104.775
21	2704ET		104.775
22	2701E, 2706E, 4D240 2704E, 2709E, 6D330	2701E6055B / 014WV02 / 88141190	104.775
23	32D, BSD329	C5NN6055A / 014WV03 / 88500190	106.698
24	40D, 256CUIN, 32D	014WV03 / 88500190	106.698
25	2711E, 2712E, 2714E, 2715E	014WV11 / 89158190 / 14-014120-00	107.213
26	2715E	014WV11 / 89158190 / 14-014120-00	107.213
27	V8.510, AV8.510		107.95
28	BSD332, 5000, 6600	D7NN6055A / 014WV06 / 89002190 / 14-020740-00	111.778



SR NO.	ENGINE	REFERENCE NO.	BORE
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GARDNER			
1	4LW, 5LW, 5HLW, 6LW, 6HLW		107.95
2	6LX, 6LXB, 6LXC		120.65
3	6HLXCT, 8LXCT, 8LX, 6LX, 6LXB		120.65
4	L-3		139.7
5	6LYT		140

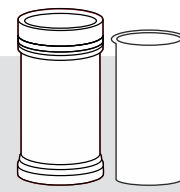


SR NO.	ENGINE	REFERENCE NO.	BORE
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HANOMOG			
1	OM615	A6150111010 / 001WV01 / 88588190 / 14-022190-00	87
2	OM314	004WV08 / 89178190 / 14-025801-00	97
3	OM360	005WV03 / 89043190 / 14-024240-00	115

HILLMAN			
1	1265CC, HUSKEY		65.088
2	875CC		67.986
3	1390CC		76.2
4	1494CC		78.999
5	1496CC, HUNTER		81.539

HINO			
1	DM100	11467-1440	90
2	B	11467-1480	95
3	EC100	11467-1130A	97
4	3B	SU351238	102
5	WO4D	11467-1761, 11467-1771, 11467-1781, 11467-1791,	104
6	EH100, HO6BT	11467-1030	105
7	HO6B7		105.8
8	EH-300	11467-1010	108
9	HO6CT, EH500		108
10	HO6CT, TA		108
11	EH700, HO7C	11467-1200, 11467-1210, 11467-1220, 11467-1230,	110
12	HO7C	11467-1210	110
13	JO8E	11463-E0050	112
14	JO8C, JO7C	77	114
15	EK100	11467-1910 / 11467-1080 / SJ351251	137
16	EF750	11467-1091A / SJ351320	137
17	F20E		146
18	F21C		150

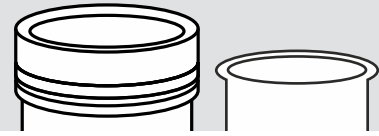


SR NO.	ENGINE	REFERENCE NO.	BORE
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HONDA			
1	CITY I, CITY II		75

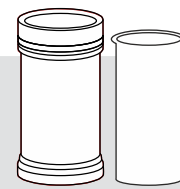
HYUNDAI			
1	4G33		73.025
2	4D55T, 4D56T	MD50243 / 676WV02 / 89436190 / 14-015590-00	91.1
3	4D31-T	2113141300 / 89851190 / 14-010970-00	100
4	6D16		118
5	6D22, 6D22T		130
6	8DC90, 8DC90		135
7	8DC91, 8DC91		135

HATZ			
1	AS-PL		67
2	AS-PL		67

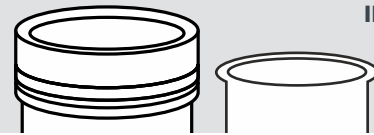


SR NO.	ENGINE	REFERENCE NO.	BORE
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ISUZU			
1	4EC1		76
2	4EE1T		79
3	G161, KB20		82
4	C201		83
5	C-221	9-11261-253-0	83
6	4FB1, 4BD1, 4FC1	5-11261-119-0	84
7	C190, 290	9-11261-224-0	86
8	C2403 RINGSSLATE		86
9	C-240	9-11261-230-0 / 14-021430-00	86
10	G200		87
11	C223	5-11261-015-2 / 5-11261-015-0 / 629WT15 / 89360110 / 14-021440-00	88
12	4FD1		88
13	C-223	5-11261-015-0 / 14-021440-00	88
14	4JB1	8-94247-861-0	93
15	4JA1	8-94110-144-0	93
16	4JB1	8-97176-683-0(684-0) / 14-021460-00	93
17	4JA1	8-94462-130-0 / 14-021450-00	93
18	4JG2	8-97176-702-0	95.44
19	4JH1-TC	8-97176-702-0	95.44
20	4BA1	9-11261-802-1	98
21	6BB1, 6BD1, 4BB1, 4BD1	1-11261-118-0	102
22	DA640	9-11261-277-0	102
23	6BD1, 4BD1	5-11261-014-0	102
24	4BB1, 6BB1, 6BD1, 6BD1T, 4BD1	5-11261-004-0 / 14-021470-00	102
25	4BC2	5-12261-014-0	102
26	6BB1, 6BD1	5-11261-004-0	102.04
27	4BC1	5-12261-014-0	102.04
28	4BD1	1-11261-118-0	102.04
29	6BG1	1-11261-248-0/249-0	105
30	6BG1T		105
31	4BE1	5-11261-016-2	105.04
32	4BG1	1-11261-119-0	105.04
33	6BF1		105.04
34	6HH1, 6HE1	8-94396-332-0	110
35	4HE1		110
36	4HF1	8-94389-276-3	112
37	6SA1	1-11261-065-3, 1-11261-094-1	115
38	6SD1, 6SD1T		120
39	E120, E120T, 6RB1, 6RB1T	9-11261-290-0, 1-11261-133-0	135



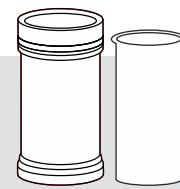
SR NO.	ENGINE	REFERENCE NO.	BORE
IVECO			
1	DUCATO-M14	007WV56 / 89502190 / 14-028930-00	94.4
2	806.A, 8060.01, 230A.000	4599351 / 007WV07 / 88593190 / 14-010620-00	95
3	8025-TRACTOR350, 450, 640	4653280 / 007WV09 / 88631190 / 14-011021-00	100
4	8040.02, 8025.028035.02	007WV84	100
5	TRACTOR55-60, 70-90, 100-90	007WV47	100
6	6.372	31358352 / 1358346 / 043WT62 / 14-040190-00	101.05
7	8060.24	4679202	103
8	8060.24	4679201 / 007WV40 / 89080190 / 14-010180-00	103
9	8040.04, 8060.04	4798813 / 89195190	103
10	8040.25, 8060.25	14-021491-00	104
11	8060.25R, 8040.25	4803030 / 007WV49 / 89317190 / 14-024781-00	104
12	8040.05, 8060.05	4770623 / 007WV48 / 89326190 / 14-010940-00	104
13	CN3, C03, CP3	88159400000000 / 233WN04 / 88827110 / 14-611250-00	110
14	8200.03, 8200.13		125
15	F3AE0681A, B, D	99456554 / 007WN74 / 89834110 / 15-260040-00	125
16	203, 203H		125
17	8200.03, 8200.13	21218602	125
18	F3AE0681A, B, D	99456554 / 007WN74 / 89834110 / 15-260040-00	125
19	203, 203H	21212902	125
20	203A, 61, 203H, 61, 310H, 61	4508554 / 007WT57 / 14-018002-00	130
21	F3BE0681A, B, C	504074958 / 007WN75 / 89831110 / 15-260050-00	135
22	8210.42L	99467115 / 008WT02 / 89591110 / 14-021590-00	137
23	8210.02, 8210.12, 22, 42	4622074 / 007WT24 / 88600110 / 14-021560-10	137
24	8281SRM70, 8280.42, 8260, 8285	2991787 / 4671991 / 4751363 / 007WN27 / 89463110 / 15-680070-00	145



SR NO.	ENGINE	REFERENCE NO.	BORE
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IFA			
1	IFA4VD8.5, multicar	530WN03	85
2	IFA-MULTICAR		90
3	IFAW-50	530WN01 / 88672110 / 14-378270-00	120
4	L-80, L60	530WN02	120

INTERNATIONAL (IHC)			
1	BD144		85.725
2	BD154	3044481-R3 / 089WN08 / 88492110 / 14-440260-00	88.9
3	C-221, UC-221, C263, U263	367645-R2	90.5
4	D-236, D-188	609028-C1 / 089WT19 / 89034110	93.675
5	D236, D282	278272-R1	93.675
6	D-188	278272-R1	93.675
7	C-291	395407-R1	95.25
8	C-248		98.425
9	D-358, 360	3139592R4 / 089WN16 / 089WN10 / 88891150	98.425
10	D-246, D268, DT402	089WN18 / 89018150 / 14-452670-00	100
11	DT360	1809935-C3	101.6
12	BD264	311487R1 / 089WT12 / 88216110	101.6
13	D-361	349114-R11	104.775
14	D414, DT414, DT436, DT466	1810504-C1	109.22
15	DT-407, UDT-407	670293-C21	109.753
16	D-350, UD-350	345314-R1	114.3
17	D-554, UD-554	345314-R1	117.475
18	D461, UD14A, DT691, UD18A	323888-R11	120.65

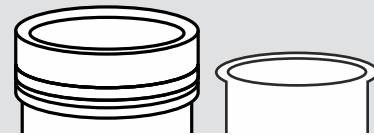


SR NO.	ENGINE	REFERENCE NO.	BORE
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JAGUAR			
1	MARK-X		86.99
2	4235CC		92.075
3	4.2		92.075
4	4.2LITER		92.075

JEEP			
1	2710CC		92
2	2710CC	31354001 / 043WV16 / 89025190	92

JOHNDEERE			
1	3152D, 4202D, 6303D	AR51902 / R48635 / T20085T / 225WN01	98
2	JD164	T-32343	102
3	JD164, JD329, 3164D,	R48168/2716 / T32343 / 225WN04 / 89036110 / 14-452740-00	102
4	DJ-04-03, 6059.T	R51726 / R54505 / 225WN03 / 89028110 / 14-450710-00	106.5
5	4.276D, 6414T	RE500024, R116383, R115336 / 89897110 / 14-450660-00	106.5
6	4.270D, 6.404D	R40615	107.963



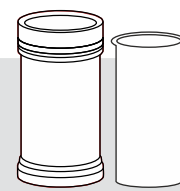
SR NO.	ENGINE	REFERENCE NO.	BORE
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KARAZ			
1	KARAZ		130
2	130		130

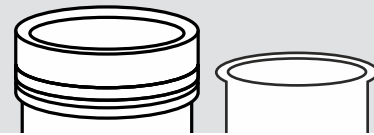
KIA			
1	CERATO		76
2	KIA801, 1500S		76.5
3	OK7YO, BESTA	L372200F	86
4	TITAN, E2500		88.9
5	Ceres, OK6ZO		88.9
6	TITAN, E2500	L372291F	88.9
7	KIA		91
8	K-2700 -Topic-		92
9	RFA	T02VN01-10-3 11	93
10	JS	OK65A-10-311	94.5
11	J3	OK55-11-311	97.1
12	JT	OK75A-10-311 / K75A10311	98
13	K3500 (0.10")	SL0123312 / SL0723051	100
14	K3500 (0.20")	SL0123312 / SL0723051	100
15	K3500 (0.30")	SL0123312 / SL0723051	100

KOMATSU			
1	4D95, PW150		95
2	4D95, S4D95, FD30, NT10		95
3	6D95, S6D95	6027-21-2110	95
4	6D105, S6D105	6137-22-2210	105
5	S6D108	6222-21-2110	108
6	S6D110	6138-21-2210 / 6138-21-2220	110
7	D50	6138-21-2212	120
8	6D125, D75	6151-21-2220 / 761WN01	125
9	6D140	6211-22-2220	140
10	6D155, S6D155	6128-21-2215 / 6128-21-2214	155

KAMAZ			
1	SL-70		70
2	SL-86		86
3	740, 5230-URAL557-ZIL1331	452WN03	120
4	740.35-400, 740.50-360	740.51-1002021	120
5	7403.10TURBO	740.30-1002021	120
6	7403.10TURBO	740.30-1002021-70	120
7	236, 238-5542, 5549-256-7525, 7522		130

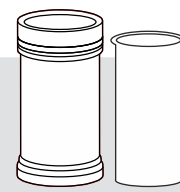


SR NO.	ENGINE	REFERENCE NO.	BORE
KUBOTA			
1	DA22		61
2	DA15		62
3	DA16		63
4	DA17		65
5	DA18		67
6	KND3		68
7	RD45, KND3	111102310	72
8	RD45, KND3	111102310	72
9	DA19		73
10	ER40		75
11	GA120		75
12	KND40		75
13	GA120		75
14	KND40		75
15	L3001, L2600		76
16	RD55		76
17	70ER-22, ET70		78
18	DA21		78
19	KND5B		80
20	RD65	1113102310	80
21	RD75, RK80	1114102310	82
22	GA80		82
23	ET80		84
24	GA85		85
25	ET95		86
26	RD85, RK95	1115102310	86
27	RK105	1116102310	88
28	KND70, ER70		90
29	ER65		90
30	GA100		90
31	GA90		90
32	ET110, ER700		92
33	RD105		92
34	ET115		94
35	DA1		94.25
36	KND90		95
37	ER1500		110
38	ER100		110
39	ER2200, KND220	1.11E+12	116
40	KND250, ER-25	1.15E+12	118
41	KND3200		150



SR NO.	ENGINE	REFERENCE NO.	BORE
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LEYLAND			
1	B SERIES	SU3270	76.187
2	B SERIES	SU351084	80.251
3	OE138	047WT02 / 88130110	84.176
4	O SERIES	SU4279	84.442
5	EASERIES25U	SU3969	84.938
6	12J	201WV03 / 88692190 / 14-010920-00	90.475
7	D3.152, AD3.152	31358345 / 043WT08 / 88552110 / 14-480320-00	91.491
8	2498CC	CH2319100	94
9	34T, 51UD	37D1838 / 463WN01	95
10	6, 98TV	SJ351204	98
11	4, 98NT, NV	SJ351047 / 137WN10 / 89000110	98
12	6.354.2	043WN11	98.476
13	6.354.4	31358393 / 043WV12 / 88355190 / 14-040110-00	98.476
14	6.354.2	SJ584201NS	98.476
15	6.354.2	31358341 / 043WT13 / 88356110 / 14-040200-00	98.476
16	38J, 38T	SJ590701ZWS / 463WN04	100
17	0400P.P.MK1, 2, 0400P.P.MK3	137WT06 / 88255110	107.226
18	0400P.P.MK1, 2, 0400P.P.MK3	520600 / 137WT06 / 88255110	107.226
19	0400P.P.MK1, 2, 0400P.P.MK3	SJ351081	107.226
20	V8.540		107.95
21	5.00502E+11	801848	118.001
22	500		118.001
23	5010502		118.001
24	0680P.PMK1, 2, 3	456WT01	127.015
25	0680P.PMK1, 2, 3	2808-43 / 137WT08 / 88261110	127.015
26	0680P.PMK1, 2, 3		127.015
27	0680P.PMK1, 2, 3		127.015
28	0680P.PMK1, 2, 3		127.015
29	TL11		127.028
30	TL11	KJ351220	127.028
31	L12, TL12	141WV12 / 88890180	136.538

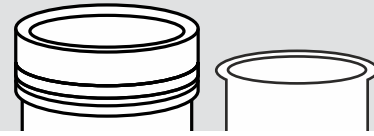


SR NO.	ENGINE	REFERENCE NO.	BORE
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LADA			
1	BT-100		73.12
2	BA3, VAZ2103	448WV01	76
3	NOVA, VAZ2150	448WV02	79
4	UD9A		83
5	XUD9A, NIVA		83
6	XUD9A, NIVA		83
7	XUD9A, NIVA		83

LANCIA			
1	828AC.3	21207702	76
2	831AB.0, 831A2.0		76.1
3	132A.B.000		80
4	831D.000	007WV66 / 14-010182-00	82.6
5	831D.000	007WV54 / 14-023751-00	82.6
6	132A.C1.000		84
7	834B2.200		84
8	8144.91	007WV43 / 89183190 / 14-022560-00	93
9	8144.97		93
10	8145		93

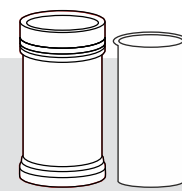
LANDROVER			
1	1595CC1.52		69.5
2	73.012mm		73.012
3	1997CC2L		77.8
4	3528CC		88.862
5	2495, 2286CC, 12J	ERC9188 / 88692190 / 14-010920-00	90.47
6	MOTOR2.3, 2.5, 10J, 12J, 19J	502160 / 201WV03 / 14-010920-00	90.475
7	3.9LEFI		94



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LISTER			
1	1430CC	SU4027	82.5
2	SRSLEEVE		88
3	SR1, SR2, SR3, SR4	20150632 / RSL57704	88.9
4	STSLEEVE		94
5	HA		100.5
6	HR, HR4, HRW4	35150204 / RSL57712	107
7	6, 1		113.5
8	6, 1SLEEVE		113.5
9	8, 1		113.5
10	5, 16, 1, 10, 212, 2	SU131401	114.3

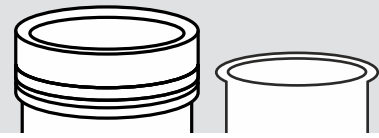
LOTUS			
1	1558CC		82.5



SR NO.	ENGINE	REFERENCE NO.	BORE
MACK			
1	EM6-350		123.825
2	E6-ESL-8280AP8	509GC284AP8	123.83
3	E7-350(ESL-8288)	509GC463 / 209WN22	123.83
4	E7-350(ESL-8287)(W, G)	509GC450	123.83
5	E6-ESL-8280AP2	509GC284AP2	123.83
6	E6-ESL-8280AP10	509GC284AP10	123.85
7	E6-ESL-8280AP12	509GC284AP12	123.85
8	E6-ESL-8280AP20	509GC284AP20	123.85
9	E6-ESL-8280AP30	509GC284AP30	123.85
10	E6-ESL-8280AP1	509GC284AP1	123.85
11	E6-ESL-8280AP1	509GC284AP1	123.85
12	E6-ESL-8280AP4	509GC284AP4	123.85
13	E6-ESL-8280AP6	509GC284AP6	123.85
14	END-707, END-711, A, B, T		127

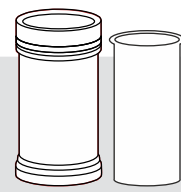
MARUTI			
1	800		68.5
2	MATIZ		68.5
3	SWIFT DIESEL		69.469

MASSEY FERGUSON			
1	23C, FE35	188494M1 / 047WT02 / 88130110	84.138
2	AD3.152	31358322 / 043WT08 / 88552110 / 14-480320-00	91.491
3	AD4.203, AD4.203, A3.152	31358323 / 31358481 / 043WV07 / 88363190 / 14-021220-00	91.491
4	A4.212	31358393 / 043WV12 / 88355190 / 14-045820-00	98.476
5	A4.212	31358324 / 043WV11 / 88354190 / 14-016160-00	98.476
6	T6.6	3135X042 / 043WT44 / 14-025380-10	100
7	A4.248	31358346 / 043WV20 / 89022190 / 14-041140-00	101.054
8	A4.248	31358352 / 043WV14 / 14-040190-00	101.054
9	A4.318	31358533 / 739643M1	114.313
10	A4.318	31358534 / 31358522 / 745991M1	114.313



SR NO.	ENGINE	REFERENCE NO.	BORE
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MAN			
1	D0224, 6.9	51.01201.0280 / 227WT36 / 89091110	102
2	D226, O, S, 8.9	227WT57 / 89414110	102
3	D0846 HM2, HMN2	CH2830220	108
4	D0846 HM2, HMN2	51.01201.0126 / 227WT07 / 88292110	108
5	ME220, TG330	51.01201.0378 / 227WT39 / 89470110 / 14-027680-00	108
6	D0830	51012010400 / 51012010379 / 227WT49 / 89453110	108
7	D0826, D0824, GF01	227WT53	108
8	D0836	51012010193 / 5000243189 / 227WT41	108
9	D0846 HM2, HMN2	51.01201.0167 / 227WT09 / 88865110 / 14-030350-00	108
10	D2066	51.01201.0417 / 227WN67 / 89816110 / 14-450630-00	120
11	D10UT150, D10TC	227WT44 / 89465110	121
12	D2156	51.01201.0221 / 227WT15 / 88853110 / 14-022830-00	121
13	D21560, S	51.01201.0244 / 227WT16 / 88854110	121
14	D2356	51.01201.0262 / 227WT19 / 88871110 / 14-022850-00	123
15	D2356, O, S, 2366	51.01201.0263 / 227WT20 / 88872110	123
16	D2556, D2566	227WN60	125
17	D2556, D2566	51.01201.0298 / 227WN58 / 89166110	125
18	D2555, D2556, D2565, D2566	51.01201.0323 / 227WN33 / 89057110 / 14-452880-00	125
19	D2530, D2538, D2542 M, ME, MF	51.01201.0299 / 227WN30 / 89054110 / 14-451090-00	125
20	D2530, D2538, D2542 M, ME, MF	51.01201.0302 / 227WN40 / 89340110	125
21	D2555, D2556, D2565, D2566	51.01201.0296 / 227WN32 / 89056110 / 14-450370-00	125
22	D2676	51.01201.0459 / 227WN70 / 89856111 / 14-451040-00	126
23	D2840	51.01201.0467 / 227WN34 / 89092110 / 14-452910-00	128
24	D2840	51.01201.0306 / 227WN35 / 89093110	128
25	D2865, D2866, D2876, D2842	51.01201.0309 / 227WN37 / 89186110 /	128

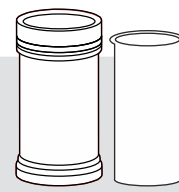


SR NO.	ENGINE	REFERENCE NO.	BORE
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MAN			
26	D2865, D2866, D2876	51.01201.0344 / 227WN42 / 89518110 / 14-450030-00	128
27	D2865, D2866, D2876	51.01201.0324 / 227WN43 / 89324110 / 14-452930-00	128
28	D2865, D2866, D2876	51.01201.0327 / 227WN61 / 89892110	128
29	D2876LF12, 13, 25	51.01201.0435 / 227WN65 / 89595110 / 14-670050-00	128



SR NO.	ENGINE	REFERENCE NO.	BORE
MERCEDES-BENZ			
1	OM636VI-E	6360110010 / 6360110110 / 001WV06 / 88530190	75
2	OM636		75
3	OM602, OM601, OM603D	6010110310 / 004WV14 / 89456190 / 14-027210-00	89
4	OM602, OM601, OM603	6010110210 / 002WV04 / 89429190 / 14-026380-00	89
5	OM602, OM601, OM603D	6010110310 / 004WV14 / 89456190 / 14-027210-00	89
6	OM616, OM617	6160110310 / 6160110610 / 001WV04 / 88681190 / 14-021350-00	90.9
7	OM616.912, 916, 312	004WV21	91
8	OM321		95
9	OM364.900, 907, OM366, OM352	3660110610 / 3620110310 / 004WV09 / 89177190 / 14-025800-00	97
10	OM314, OM352	004WV13 / 89069190 / 14-025804-00	97
11	OM352, OM353, OM362	352 011 18 10 / 004WV08 / 89178190 / 14-025801-00	97
12	OM364, OM366, OM356		97.5
13	OM904, OM906	9060110110 / 004WV18 / 89513190 / 14-028610-00	102
14	OM360	3600110010 / 005WV03 / 89043190 / 14-024240-00	115
15	OM407A, OM409, 305BUS	407 011 1110 / 003WN16 / 89192110 / 14-452370-00	125
16	OM403, 404	403 011 34 10 / 003WN24 / 89380110 / 14-458110-00	125
17	OM470	4700110210 / 470 011 03 10 / 001LW00142001 / 89923110	125
18	OM401, 402	403 011 3210 / 403 011 2510 / 003WN14 / 89181110 / 14-452310-00	125
19	OM457LA	4570110510 / 89562110	128
20	OM457, OM458, OM460	457 011 0510 / 460 011 0010 / 001WN21 / 89563110 / 14-450380-00	128
21	OM457, OM460	4579970745, 4600110010 / 005WN0901 / 89867110 / 15-451070-00	128
22	OM421, 422, 423, 444	444 011 0210 / 003WN25 / 89389110 / 14-452030-00	128
23	OM421, 422, 423, 424, , 441, 442, 443, 444	423 011 0210, 423 011 0310 / 003WN15 / 89180110 / 14-456340-00	128



SR NO.	ENGINE	REFERENCE NO.	BORE
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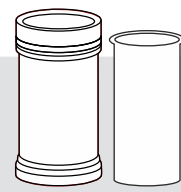
MERCEDES-BENZ			
	443, 444	/ 89180110 / 14-456340-00	
24	OM421, 422, 423, 444	003WN35 / 89884110	128
25	OM421, 422, 423, 441, 442, 444	003WN28 / 89395110	128
26	OM447, 427, 489, 429	003WN29 / 89391110	128
27	OM447, 449, 427	447 011 0210, 447 011 0110 / 003WN26 / 89390110 / 14-456980-00	128
28	OM355A	355 011 0710 / 003WV09 / 88869190 / 14-025890-00	128
29	OM355A	355 011 1010 / 003WV27 / 89347190	128
30	OM355, O, S	005WV07 / 89433190	128
31	OM355, O, S	005WV08	128
32	OM521, 522, 541, 542, 941	5410110110 / 003WN32/38 / 89530110 / 14-458580-00	130
33	OM521, 522, 541, 542, 941ACTROSMP2	003WN38 / 89878110	130
34	OM501, 502, 541, 542, 941, 942	5410110459, 5419971845 / 005WN1001 / 89846110 / 15-451220-00	130
35	OM941, 541	5410110510 / 001LW00132	130
36	OM441, 442, 443, 444	001WN14 / 89533110	130
37	OM441, 442, 443		130
38	OM541, 542, 942	5410110510 / 003WN30 / 89594110	130
39	OM521, 522, 541, 542, 941	5410110710 / 003WN31/37 / 89879110 / 14-450250-00	130
40	OM521, 522, 541, 542, 941	5410110110 / 003WN32/38 / 89530110 / 14-458580-00	130
41	OM471	4710112210, 4710110810 / 001LW00138 / 89953110	132
42	OM471	4710113510, 4710111010 / 001LW00143001 / 89916110 / 15-610060-00	132

MG			
1	ASERIES		64.567
2	ASERIES		70.612
3	BSERIES		73.025
4	BSERIES		80.251
5	3528CC		88.862



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mitsubishi			
1	NM45		65
2	NM55		68
3	NM65		73
4	SD5		78
5	NM75		78
6	SD6		80
7	NM90		80
8	M80		80
9	M85		80
10	4D65, FUSO		80.6
11	M95		85
12	4DR-10		88
13	NM110		88
14	4D56		91.1
15	4D55, 56	MD103648-9 / 676WV02 / 89436190 / 14-015590-00	91.1
16	4DR5, 4DR51 6DR5	31607-02202, 31607-02101-2	92
17	M11		92
18	NM130		94
19	4DR7		95
20	4M40	1-ME202342	95
21	NM150, M14		96
22	6DS7	ME021843-4	98
23	6DS7	ME021843-4	98
24	4D30	ME011513 / 89356190	100
25	4D31	ME011523	100
26	4D30	ME011513 / 89356190	100
27	4D34	ME013366 / 89825190	104
28	4D33	1-ME013312	108
29	6D14, 4D35	ME31453	110
30	6D14(NEW)	ME071198-200	110
31	6D15	ME0311656	113
32	6D15(NEW)	ME071062-4	113
33	6D16(NEW)	ME041105-7	118
34	6D22	ME051500	130
35	8DC80		135
36	8DC90, 8DC91	ME061036	135



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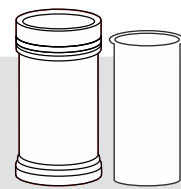
MORGAN			
1	105E, 107E, 307E, 116E, 120E, 122E		80.95
2	2737E		80.985
3	2737E		80.985
4	3528CC		88.862

MWM			
1	KD-12		95.04
2	AKD12F, 12Z, 11D, 12D, 12V, 112E, VBF1014E		98.01
3	D225		100.01
4	D227, D303, D327	12160419 / 151WN14 / 88850110	100.01
5	TD-229, D339EC		102
6	D229		102
7	MOT.4.10, 6.10		103
8	D226, D916	12160228 / 151WT25 / 89197110 / 14-	105
9	D226, D, S, V, Z, TD226	20040522603 / 151WT31	105

MAZDA			
1	PB	0249-10-311	68
2	TB	0268-10-311	70
3	UA	0604-10-311	75
4	PN		78
5	VA	0552-10-311A	82
6	R2, RF	RF01-23-051 / 627WV01	86
7	RD		86
8	RD		86
9	F8		86
10	XAE-2500, T-2500	0636-10-311	88.9
11	S2E-2200	1456-23-051	88.9
12	XBE-2700	0528-10-311	92
13	ZB		92
14	HAE-3000, W9	1363-23-051	95
15	SLT-3500	SL01-23-051	100
16	TE, T4000	TFYO-10-311	105.5



SR NO.	ENGINE	REFERENCE NO.	BORE
NISSAN			
1	A14	1-11012-H7225	75.222
2	E-15	1-11012-17M12	76
3	K9K	021WV35	76
4	J-15	1-11012-13201	78
5	F9Q	021WV36	80
6	CD17		80
7	F9Q	021WV36	80
8	CD17		80
9	L24, L26		83
10	L16	1-11012-21010	83
11	SD20, SD33, SD22	11012-76200 / 640WT01 / 88603110 / 14-021170-00	83
12	SD-22	11012-76201 / 640WV12 / 88603110 / 14-021170-00	83
13	LD-28	11012-V0700	84.5
14	Z-20, LD-20	11012-A8701 / 14-020350-00	85
15	LD20	640WV04	85
16	LD20	640WV06	85
17	RD28	1-11012-22J64	85
18	L18	1-11012-78500	85
19	RD28	1-11012-22J64	85
20	L20B	1-11012-v6001	86
21	H-20		87
22	Z-24		88.9
23	TD-23	11012-02N10	89
24	SD23, SD25	11012-L2002	89
25	TD-23	11012-02N10	89
26	TD25	11012-44G05 / 640WV10	92.9
27	FD33, FD35	11012-02T01	100
28	ED6 FD6	11012-Z5001 / 11012-Z5573	100
29	ED33	11012-T9000	100
30	FD-6T	11012-Z5512	100
31	ED35	11012-01T10	102.5
32	FE6BT, FE6NEW	11012Z5518 / 640WT18	108
33	FE6	11012-Z5518	108
34	ND6, NE6(NEW)	11012-95065-6	110
35	ND-6, NE6	11012-95001-2	110.04
36	NF6	11012-95515	120
37	PD-6	11012-96000-1	125
38	PE-6, PE6T, RD-6	11012-96500-1	133
39	RF8	11012-97164 / 11012-97171	138



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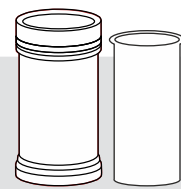
NAVISTAR			
1	D-361, DT-361	3144447 / 3139587R3	98.425
2	D-179, D-239, 358	3139592R4	98.425
3	D-268, D-402	3144682R3	100
4	BD-264	31114887R1	101.6
5	DT-360	1809935C4	101.86
6	DT-466P, NGD	1815674C1	109.22
7	DT-466E	1841326C1(1830706C1)	116.59

NEW HOLLAND			
1	8060.25R, 8040.25	4803030 / 89317190	104
2	8040.05, 8060.05	4770623 / 89326190	104
3	675TA, FA	83998292, FONN6055AA	111.78
4	675TA, FA		111.78



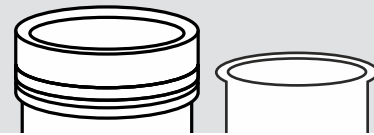
SR NO.	ENGINE	REFERENCE NO.	BORE
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OPEL			
1	4EC1-T, 4ECI	SU351313	76
2	1600S		79
3	1500	SU2555	80
4	1.6D	SU351283 / 011WV04 / 89161190 / 14-023520-00	80
5	1.7	SU3693	85
6	OPEL		86.5
7	OPEL2.1LD	SU351437004 / 011WV02 / 89045190 / 14-024160-00	88
8	G9U	021WV34	88



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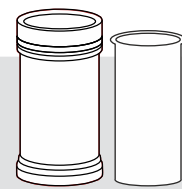
PERKINS			
1	4.108	31358117 / 043WV04 / 88495190 / 14-010900-00	79.375
2	4.154	L553300S, SU351027	88.925
3	P3.144, P4.192 4.192, A4.192 6.288	31358119 / 043WV17 / 88364190	88.925
4	D3.152, 4.203, 6.305	043WV50	91.48
5	D3.152, 4.203, 6.305	043WV51	91.48
6	AD3.152, D3.152, AD4.203	043WV21 / 89042190	91.48
7	AD3.152, D3.152, AD4.203	70530006 / 043WV25 / 043WV34	91.48
8	AD3.152, D3.152, AD4.203	043WV29	91.48
9	D3.152, 4.203, 6.305	043WV49	91.48
10	4.203, 3.152, 6.305, A3.152	31358308 / 043WT06 / 88362110	91.48
11	3.152, A3.152	31358356	91.491
12	3.152, A3.152	31358356 / SU628201	91.491
13	D3.152, AD3.152, D4.203, AD4.203	31358345 / 31358322 / 043WT08 / 88552110 / 14-480320-00	91.491
14	4.165	3135V002 / SJ351176NS	92
15	4.165	31354001 / 31358001 / 043WV37 / 89025190	92
16	CRD93	CH2403100	93
17	A4.212, AD4.236, 6.354	31358324 / 043WV11 / 88354190	98.476
18	A4.212, AD4.236, 6.354	043WV60	98.476
19	A4.212, AD4.236	3135X031 / 043WV39 / 89514190	98.476
20	A4.212, AD4.236 6.354	31358394 / 31358341 / 043WT13 / 88356110 / 14-040200-00	98.476
21	A4.212	31358351 / 31358393 / 043WV12 / 88355190 / 14-040110-00	98.476
22	A4.212, AD4.236	3135X032 / 14-021250-00	98.48
23	T4.40, 1106C, T6.60	043WT61	100
24	1006-6	3135X041 / 043WV43 / 89320190	100
25	T4.40, C4.40, T6.60, CC6.60	3135X042 / 043WT44 / 14-025380-10	100
26	PHASER	3135X062	100
27	PHASER	3135X063 / 043WV42 / 89527190	100
28	A4.248	3135X034	101.054
29	4.248	31358346 / 31358391 / 043WV20 / 89022190 / 14-041140-00	101.054
30	A4.248	3135X033	101.054
31	4.248	31358352 / 043WT62 / 14-040190-00	101.054
32	4.248	31358343 / 31358352 / 742466M1 / 043WV14 / 88587190	101.054
33	1004.40, 1004.42	043WV56 / 14-020590-00	103
34	V8.510, AV8.510	31358905 / 043WT15 / 88887110	107.95
35	4.318	31358534 / 31358522 / 745991M1 / SJ351192N	114.313



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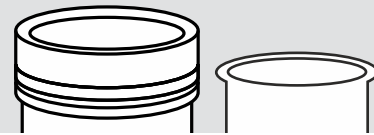
PERKINS			
36	4.318	31358533 / 739643M1 / SU351193F	114.313
37	1300SERIES		116.58
38	Perkins2006		130.17

PEUGEOT			
1	70mm		70
2	206-TU3JPL4	62371220 / 021WN26 / 88322110	75
3	XUD7, 309	039WV23 / 89316190 / 14-024830-00	80
4	XUD9, A, B, 162, 306	62707 / 039WV32	83
5	405-BX	9410198780 / 039WN24/89301110 / 14-634910-00	83
6	405-BX	9410198780 / 039WN24 / 89301110 / 14-634910-00	83
7	504, 404NEW	039WN10 / 88634110	84
8	XC-5, 404-OLD	039WN11 / 88352110	84
9	504, 404NEW	039WN10 / 88634110	84
10	XC-5, 404-OLD	C45137250 / 039WN11 / 88352110	84
11	504	039WN13 / 88589110 / 14-636500-00	88
12	J5, J9		88
13	XD88, XDP88, TMD4.88	10975 / 039WN12 / 88524110 / 14-600420-00	88
14	505	039WN25 / 89334110	88
15	XD90, 504D, J7	039WN15 / 88510110 / 14-606510-00	90
16	CRD93		93
17	CRD93	CH2403110	93
18	XD2, XD2P	CH2311100	94
19	XD2, XD2P	11140 / 039WV16 / 89033190 / 14-020660-00	94
20	XD3, XD3P	CH2319100	94



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RENAULT			
1	800, A7	O21WN05 / 88574110 / 15-632200-00	58
2	R4	O21WN08	70
3	810, B7	O21WN28	73
4	810, B7, C7	O21WN09 / 88544110 / 15-636590-00	73
5	E6J, E7J	O21WN30 / 89448110 / 15-638390-00	75.8
6	R18, R12	O21WN23 / 89060110 / 15-630820-00	76
7	F8D, F8M	CH2317100 / O21WV27 / 89318190 / 14-023730-00	78
8	R25D-Non-TURBO	O21WN29	86
9	R25ESS(Long)	O39WN25	88
10	R18	O39WN33	88
11	8140.67	21230702	90.475
12	A3152D	O43WT07	91.48
13	A3152D	31358308 / O43WT06 / 88362110	91.48
14	8140.27	21235902	93
15	8140.67	O07WV43 / 89183190 / 14-022560-00	93
16	8140.21	O07WV46 / 89319190 / 14-021480-00	93
17	8140.61	21230502	93
18	797, U5M62	5000044427 / 592WN06 / 88670110 / 14-265950-00	102
19	797, U5M62(LONG)	5000336162 / 592WN09 / 89173110 / 14-265960-00	102
20	MIDR06.02.26(SHORT)	5001856169 / 592WN11 / 89464110 / 14-480090-00	102
21	720, SM5	5000202738 / 592WN10 / 89441110 / 14-265940-00	102
22	MIDR06.02.26(SHORT)	5001856169 / 592WN11 / 89464110 / 14-480090-00	102
23	720, SM5	5000202738 / 592WN10 / 89441110 / 14-265940-00	102
24	D226-S	12160228 / 151WT25 / 89197110 / 14-020170-01	105
25	M620.P, M620.T	130008 / 209WN04 / 88034110	120
26	MID620.30(SHORT)	5000658756, 771552 / 209WN13 / 89077110 / 14-487050-00	120
27	MIDS620.30(LONG)	5000663653, 5000670968 / 209WN17 / 89420110 / 14-480020-00	120
28	MIDS620.30	5000658755, 5000793390 / 209WN12 / 89078110 / 15-480050-00	120

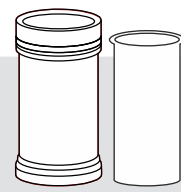


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RENAULT			
29	MIDR620.45E(PREMIUM)	5010240945, 5010240948 / 209WN20 / 89568110 / 14-450170-00	120
30	MIDR623.56, A41-Euro2	5010359561, 7421106964 / 209WN21 / 89588110 / 15-450220-00	123
31	MIDR0624.65, Magnum390	5010284447 / 209WN22	123.83
32	MDR635.40(330, 340, 350)	5000659461 / 209WT15 / 89085110 / 14-020330-00	135
33	MIDR635.40(380, 385)	5000678033 / 209WT18 / 89451110 / 14-040040-00	135
34	MDR635.40, MIDR635.40G2	5000154954, 5000773478 / 209WT07 / 88031110 / 14-020510-00	135

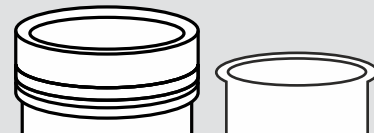
ROVER			
1	XUD9, A, B	039WV32	83
2	OSERIES	SU4279	84.442
3	P6		85.725
4	3528CC	SU4244	88.862
5	2286	527351 / 201WV02 / 88391190	90.49

RVI			
1	AVIAA30712	592WN06 / 88670110 / 14-265950-00	102
2	D0846HM2HMN2	CH2830210	108
3	D0846HM2HMN2		108
4	D2156		121
5	DCI11Euro3, MIDR623.56Euro2	209WN21/89588110/15-450220-00	123
6	D2356	CH2439200	123
7	D2356	CH2439210	123
8	D2356	CH2439220	123
9	D2858M, 40, 42	CH2437200	128
10	D2858M, 40, 42	CH2437210	128
11	D2858M, 40, 42	CH2437220	128
12	D2858M, 40, 42		128
13	R340	5000659461 / 209WT15 / 89085110 / 14-020330-00	135
14	MIDR06.35.40(385)	5000678033 / 209WT18 / 89451110 / 14-040040-00	135
15	MIDR635.40	5000154954 / 209WT07 / 88031110 / 14-020510-00	135



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SCANIA			
1	DC9, DSC9-94	1344720 / 061WN25 / 89844110 / 15-600020-00	115
2	D5-D8-DS8	243817 / 061WN01 / 88402110 / 14-374980-00	115
3	DS9, DSC9-92	348967, 1319247 / 061WN11 / 89385110 / 15-608890-00	115
4	DS9-93	245396 / 061WN08 / 89088110 / 14-374990-00	115
5	DC12, DSC12-124	1868157 / 061WN17 / 89541110 / 14-112800-00	127
6	DC9, DC12, DT12	1917102 / 061LW00101 / 89893110 / 15-570060-00	127
7	DS14, DSC14-141, 142	170690, 230151, 231276, 239151 / 061WN13 / 88568110 / 14-671680-00	127
8	DS14, DSC14-143	374801 / 061WN12 / 89411110 / 15-679320-00	127
9	DSC14-144	1347234 / 061WN21 / 14-670070-00	127
10	DC9, DC12, DT12	1917102 / 061LW00101 / 89893110 / 15-570060-00	127
11	D11, DS11-110, 111	363305, 156000, 1120689 / 061WN04 / 88414110 / 14-453090-00	127
12	D11, DS11-110, 111	1118368 / 061WN10 / 89366110 / 14-450400-00	127
13	DS11, DSC11-112	1114035, 235828, 295053, 363301 / 061WN09 / 89367110 / 14-450850-00	127
14	DS11, DSC11-113	1305546 / 061WN19 / 89497110 / 14-450110-00	127
15	DS11, DSC11-113R, P	1302095, 1305095 / 061WN14 / 89439110 / 14-450040-00	127
16	DS11-T112	89730110	127
17	DC11-114P, R, T	1917101, 1868159, 1786085 / 061WN26 / 89881110 / 14-570030-00	127
18	DC09, DC13XPI	2359445, 1730424, 1850688, 2183352, 2076168 / 061LW00104001	130
19	DC09, DC13XPI	2359445, 1730424, 1850688, 2183352, 2076168 / 061LW00104 / 89939110	130
20	DC09, DC13XPI	2188199, 1850688, 2206260, 2183352, 2031033 / 061LW00119 / 89911110	130



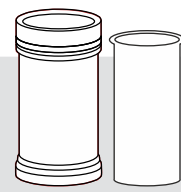
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SCANIA			
21	DC09, DC13, DC16	2254875, 2043067, 2092021, 2188199 / 061LW00120 / 89908110 / 15-570090-00	130
22	DC09, DC13, DC16	2254875, 2043067, 2092021, 2188199 / 061LW00105001 / 89935110	130

SEAT			
1	100GBC, GL-146A	21205402	65
2	4.108	043WV04 / 88495190 / 14-010900-00	79.375
3	1.9	029WV20 / 89434190 / 14-027950-00	79.5
4	138B6.000	21230602	83
5	138B6.000	21231602	83
6	132A, B, C1, AB.1A	21206102	84
7	OM615	001WV03 / 88588190 / 14-022190-00	87
8	8144.61	21230502 / 80690	93
	8144.61	21230702	93

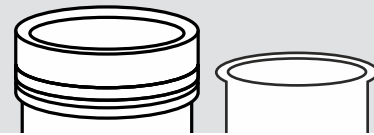
STEYR			
1	WD-308, 408, 311, 411	40800040032 / 321WN15 / 89182110 / 14-450150-00	100
2	WD610	609F0401 / 321WT05 / 88426110 / 14-027790-00	105
3	WD612	61200010036 / 321WT06 / 89010110	108
4	WD615, HOWO	61500010019 / 321WT13 / 89387110 / 14-028240-00	126

SUZUKI			
1	SJ410		65.09
2	SAMURAI, SJ 410, SUPER CARRY	CLSU406551PG	65.5
3	ZEN		72
4	ESTEEM		74
5	VITRA		84



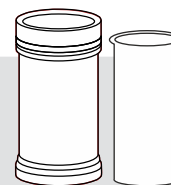
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SAVIEM			
1	712	592WN08 / 89070110 / 14-261790-00 / 38030610	98
2	797	5000044427 / 592WN06 / 88670110 / 14-265950-00 / MOPISAN804760	102
3	797798	5000336162 / 592WN09 / 89173110 / 14-265960-00	102
4	D0846HMN		108
5	D2156		121
6	D2356		123



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TOYOTA			
1	2E, 2EL	1146111040	73
2	1N	LSX46276	74
3	4K	11462-24010	75
4	3K-B	11462-24010	75
5	2P	11462-21010	76
6	3P	11462-23010	76
7	1A, 3A	114615010 / 1101230W01SF	77.5
8	3AU		77.5
9	2R	11462-31010	78
10	5A		78.7
11	12R	11462-31020	80.5
12	5K, 1S		80.5
13	4S		81.5
14	1CD, FTV		82.2
15	1C	11461-64011 / LSX46112	83
16	SM		83.74
17	21R		84
18	1Y, 3Y		85
19	2T	11012-22J64-T / 11012-A8701 / CLNI408501P	85
20	7R	11462-33010	86
21	2K		86
22	1Y, 2Y, 3Y, 3YC	1146171010 / 1146171020 / 1146173010	86
23	2C, 3C	11461-64090 / LSX46260	86
24	1DZ	11461-78020	86
25	5R, 3R	11461-48010 / 14-040160-00	88
26	2J, H	11462-48011 / LSF46226	88
27	18R		88.5
28	L	11461-54010 / 607WV01 / 89362190	90
29	F	11461-60010	90
30	2H, 2HT	11461-68010 / LSF46624	91
31	22R		92.075
32	3F		94
33	2F		94
34	1HZ, 1PZ	11461-17010 / 89822190	94
35	B[DIANE]	11461-56010	95
36	BU60	11461-56020	95
37	11B	11462-56060	95
38	B-New	11461-56020 / 607WV02 / 89358190 / 14-040100-00	95
39	B11B	11461-56030	95
40	1KZ	11461-78301	96
41	3L	11461-54090	96
42	3L	11461-54100	96
43	1Z, 11Z, 12Z	11461-78300	96



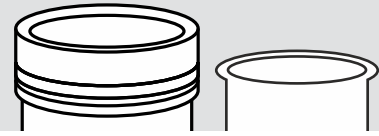
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TOYOTA			
44	1KZ	11461-78301	96
45	1KD		96
46	2B	11461-57010	98
47	14BT		102
48	3B	11461-58010	102
49	13B	11461-58020	102
50	14B	11461-58040	102
51	14B	11461-58040	102
52	1W		104
53	2D5Ring(Old)	11461-77040, 1146177015	105
54	2D4Ring	11461-77021	105
55	15BF	11461-58090	108
56	4HD1		114

TRIUMPH			
1	1147CC	SU3649	69.289
2	1296CC	SU3875	73.647
3	23C	SJ235800	84.176
4	2997CC	SU4251	84.987

TALBOT			
1	1592CC	SU3756	76.8
2	XUD9, A, B, , 162	039WV32	83
3	U25, 651, U25, 661		93
4	U8, XD2S(147)	039WV16	94
5	U8, XD2S(147)	CH2311100	94

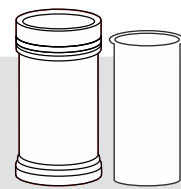
TATA			
1	INDICA		75
2	206, 207		83
3	692TELCOOE		92
4	1210DI		92
5	695(1312)		95
6	1516, 1612(697)		97
7	1516(697)		97
8	CUMMINS		102.019



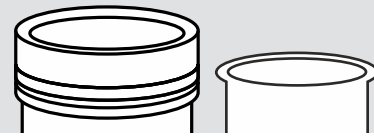
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URSUS			
1	S4001, S4002, S4003	3950116 / 595WN01 / SJ611101WS	95
2	Escort335, UrsusC330	50010710 / 454WN03	102
3	H50B		105
4	C-385T, W	280002002	110

UMZ			
1	ZMZ53, 66, 511, 513	66-1002020-02	92
2	ZMZ-21A, GAZ-21, UMZ-417, UMZ-451M	21-1002020-?3	92
3	ZMZ-24D, ZMZ-24D-01, ZMZ- 402, ZMZ402.10	24-1002020-02	92



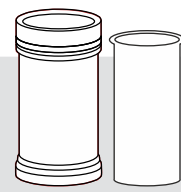
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VOLVO			
1	D24TD	029WV13 / 89163190 / 14-028360-00	76.5
2	TD41, TD31	037WN46	92
3	TD50A, B, D50A, B	420 094 / 037WN06 / 88470110 / 14-404770-00	95.25
4	D6A, D6B	037WN38 / 89820110 / 14-450130-00	98.43
5	D6A, D6B	037WN38 / 89820110 / 14-450130-00	98.43
6	TD60A, D60	465 170 / 037WN07 / 89016110 / 14-400510-00	98.43
7	TD60, TD61	465 808 / 037WN27 / 89352110 / 15-458900-00	98.43
8	TD63	420880 , 420881 / 037WN47 / 89578110 / 14-459340-00	98.43
9	TD71	471 710 / 037WN26 / 89370110 / 14-459050-00	104.77
10	TD70, D70, MD70	421 430 P04 / 037WN11 / 88868110 / 14-573140-00	104.77
11	TD73, B7, D7	037WN49 / 89585110 / 14-450890-00	104.77
12	TD73, B7, D7	2711596 / 037WN42 / 89570110	104.77
13	D9A, F-9, FM-9	20381125 / 037WN50 / 89826110 / 14-480230-00	120
14	TD102, THD102	479200 / 037WN29 / 89431110 / 14-459040-00	120.64
15	TD103, THD103	422 840 / 037WN39	120.64
16	TD100, THD100, TD101	479684, 1545040 / 037WN34 / 89427110 / 14-458170-00	120.64
17	D100, MD100	422090, 422093 / 037WN18 / 88476110 / 15-457600-00	120.64
18	TD100B, TD100BG	467380P06 / 037WN21 / 89087110 / 14-673190-00	120.64
19	D100, MD100	422090, 422093 / 037WN18 / 88476110 / 15-457600-00	120.64
20	TD100B, TD100BG	467380P06 / 037WN21 / 89087110 / 14-673190-00	120.64
21	D11, FM11	20820662 / 037LW00100000 / 89912110 / 15-480440-00	123
22	TD120, TAMD120	545671, 275051 / 037WN22 / 89084110 / 14-459030-00	130.18
23	TD120, TAD120	470 286 / 037WN25 / 89328110 / 14-456000-00	130.18
24	TD121, TID121	478140, 478149 / 037WN30 / 89399110 / 15-458840-00	130.18



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VOLVO			
25	TD123	478380, 478381 / 037WN51 / 89549110 / 14-450310-00	130.18
26	D12B, D12C-FH12	20480098, 40338960 / 037WN48 / 89593110 / 14-450590-00	131
27	D12AEuro-2-FH12	1677874, 85113638 / 037WN35 / 89460110 / 14-450160-00	131
28	D12C, D, F-FH12	037WN55	131
29	D13A, B-DXi13	20760235 / 037WN56 / 89886110 / 14-451190-00	131
30	D13A, B, C-DXi13	20852790 / 037LW0010200 / 15-451190-00	131
31	D13A, B-DXi13	20760235 / 037WN56 / 89886110 / 14-451190-00	131
32	D13A, B, C-DXi13	20852790 / 037LW0010200 / 15-451190-00	131
33	D16C, E-TAD1643, 50	20737361, 3965427 / 037LW00101	144

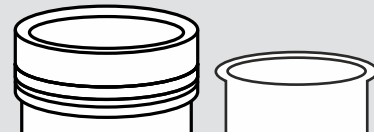
VAUXHALL			
1	1057CC		74.295
2	1159CC		77.749
3	CRESTA		79.375
4	1.6D	011WV04 / 89161190 / 14-023520-00	80
5	SERIES101		81.636

VOLKSWAGEN			
1	1471CC		76.5
2	1588CC, D24	029WV11 / 89163190 / 14-024670-00	76.5
3	1.3LGASOLINA, A, C	113101311E / 029WR01 / 88459110	77
4	1.7L, A, C		88
5	1.8L, A, C		90.5
6	1.8L, A, C		92
7	4.165		92
8	CG	043WV16 / 89025190	92
9	DF	025101302A / 029WN16 / 89168110	94
10	1.8L, A, C		94



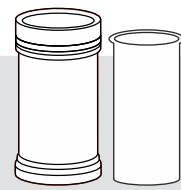
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YANMAR			
1	NT65		65
2	Gen-2		66
3	D4		70
4	TH3, TS50	70410001900	70
5	B7		70
6	TF50	70509001900	74
7	NT75		74
8	D5		75
9	NS50		75
10	TF65, TF70	70520001900	78
11	TF75, TF80	70530001900	80
12	D6		80
13	TH6, TS80	70440001900	80
14	TH5, TS70	70430001900	80
15	TA70		80
16	TH5, TS70	70430001900	80
17	TA70		80
18	NS75		80
19	B8		80
20	TA80		84
21	TS105, TH7	70450001900	85
22	NT85		85
23	3LK	72422301830	85
24	D7		85
25	D7		85
26	TF85, TF90	70540001900	85
27	D7		85
28	TR8		85
29	NT85		85.03
30	TA100		88
31	TA120, SA120		90
32	TR9		90
33	B9		90
34	TF115	70560001900	92
35	TH-8, TS130	70460001900	92
36	NS11		92
37	SS4		94
38	NT95		95
39	TH-10, TS-155	70385401900	95
40	F-9		95
41	TA-140		95
42	2T	72322001830	95
43	SS4		95
44	TF-1351140		96
45	D-10		100
46	TF150, TF55		102
47	TH13, TS-180	70395401900	102



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YANMAR			
48	NS18		102
49	SM3, SM4	72231001830	105
50	AR110		105
51	N15Y	70330001900	110
52	NP16		110
53	NT110	70330001900	110
54	TS190	70589001900	110
55	TS230		112
56	3ES		115
57	AS140		115
58	AE1		115
59	AR, AS160		125



SR NO.	ENGINE	REFERENCE NO.	BORE
ZETOR			
1	2001, 3001, 4011, 5501	3950116 / 5050116 / 595WN01 / 88480110	95
2	3240, 3320, 4340, 5911, 5945, 6011, 6711	67010168 / 67010124 / 595WN02	100
3	4901, 5001, 5201, 6901, 7001, 7201, 7701	69010153, 69010168 / 595WN04 / 89058110	102
4	G453		102
5	25, 5RP	059WN06 / SJ561901WS	105
6	TURBO, 3RP	595WN06	105
7	8001, GZ01, GM01, 8601	280002002 / 595WN03 / 88877110	110

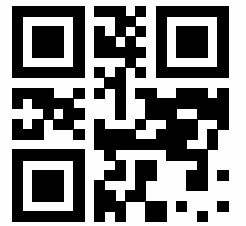
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