



PERFORMANCE SLEEVES

ENGINE SLEEVE SOLUTION SPECIALISTS

IRON & ALUMINUM BLOCKS

STREET - DRAG - PULLERS

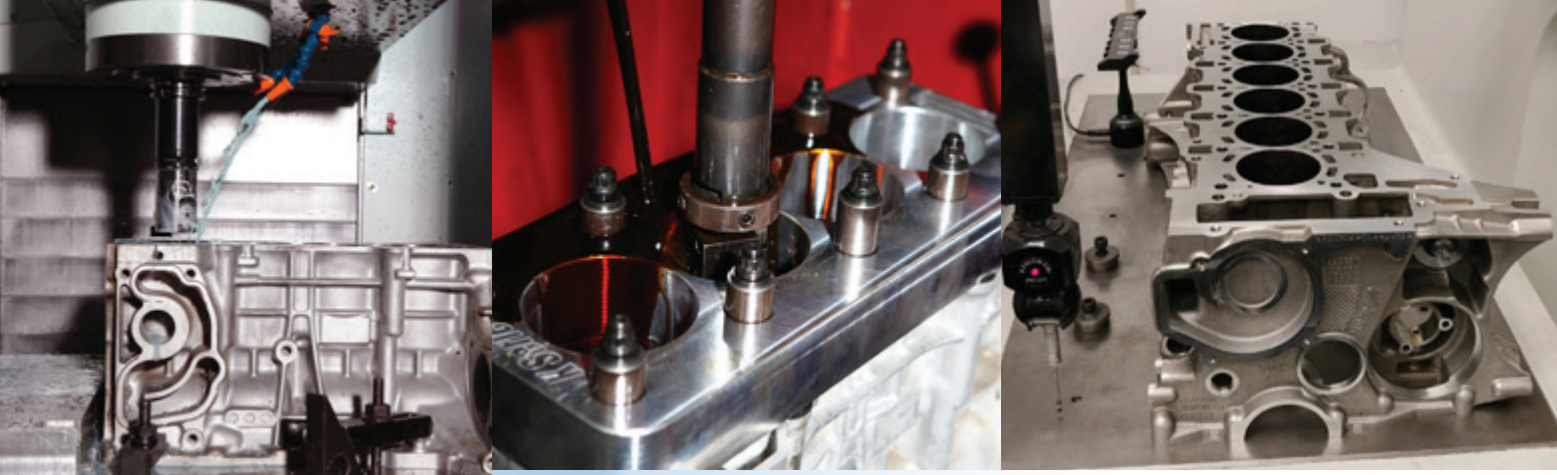
TRACTOR - TRUCK - HEAVY DUTY - INDUSTRIAL



AMERICAN MADE SINCE 1945



INFO@LASLEEVE.COM • 562-945-7578



Installation Center

Sleeve Installation Service

4, 6 or 8 Cylinder Blocks • Labor from \$900 to \$1,900 complete.

PROCROSS PROCOOL WET SLEEVE / DRY SLEEVE AMPHIBIOUS DESIGN



L.A.SLEEVE presents its Amphibian wet sleeve / dry sleeve cross-flow wet flanged sleeve design. We call it our "ProCross ProCool" wet flange design. As water temperature rises in the cooling cavity, the flanged area of the sleeve becomes integral to sustaining a proper cooling flow. The peak and valley plateau area of the flange will attract the coolant in a turbulent cross-flowing feature which will hold coolant along the sleeve for a prolonged period of time. Thus achieving a high performance cylinder sleeved motor while mildly tempering the cooling. The L.A.SLEEVE "ProCross ProCool" sleeve can be run on turbo or nitrous boosted motor packages.

Finally, you will not need a CNC machine to install our ProCross sleeve. Although these have a wet-sleeve upper flanged design, the lower portion of the sleeve is pressed into place as a dry sleeve design. Any machine shop can become a race engine or high performance street engine supplier.

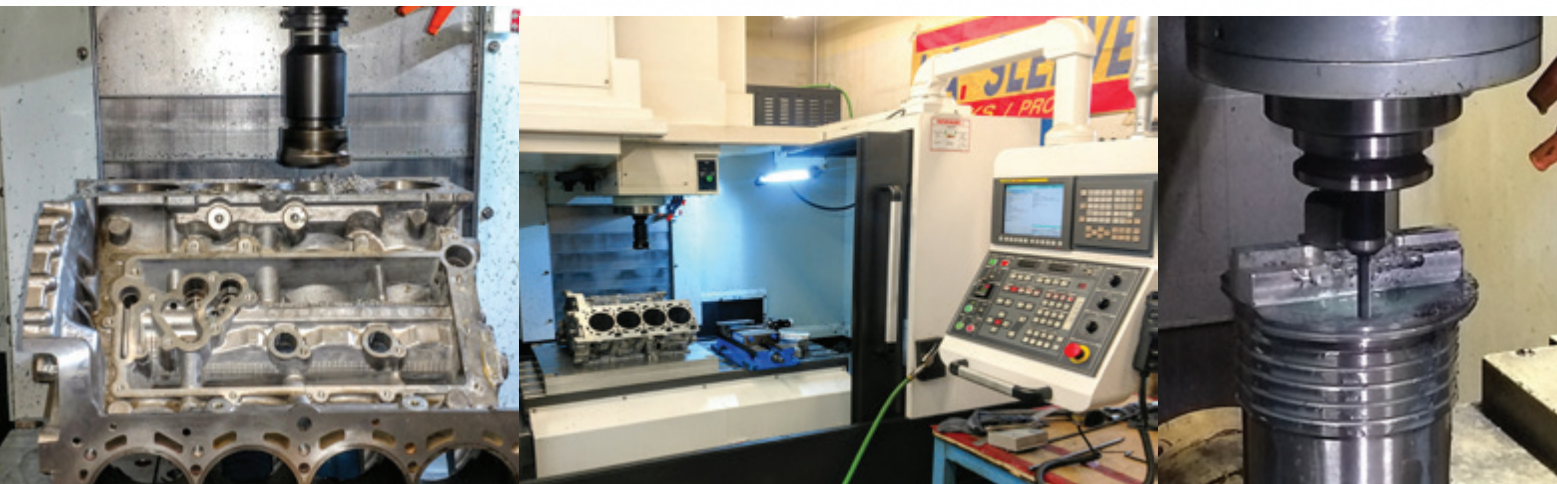
Moly2000 PERFORMANCE SLEEVES

The L.A.SLEEVE Performance sleeves are manufactured from centrifugally spun-cast ductile iron. The only American manufactured sleeve made in Moly2000 ductile, the finest available. Brinell hardness of 265 (98.7 Rockwell B) our material has greater density than any other sleeve competitor. Greater material density provides consistent grain flow micro-structure. Our centrifugal process involves patented procedures to control our desired graphite and matrix distribution throughout the sleeve. Moly2000 ductile is wear and shock resistant to ensure piston rings riding a stable bore surface, creating ring seal and compression boundaries. Metallurgical high carbon ferrous material properties of molybdenum, nickel, graphite nodules, copper, silicon and chromium provide ultimate load bearing ability. Continuous roundness, hardness and concentricity offers "no worry" parts to build the best cylinder sleeve a Drag Car or Street motor can run.



L.A.SLEEVE CO., INC.

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562-945-7578

AUDI™

PART NUMBER	BORE	APPLICATION
AUDI25L-DF/SF	82.50mm DRY TYPE FLANGE SLEEVE	2.5L RS3 INLINE-5
AUDI25LCD-DF/SF	82.50mm AMPHIBIOUS SEMI-CLOSED DECK	2.5L RS3 INLINE-5
AUDI40-DF/SF	84.50mm DRY TYPE FLANGE SLEEVE	RS 4.0L V-8
AUDI30DLZA	84.50mm DRY TYPE FLANGED SLEEVE	2018-26' 3.0L TFSI V-6
AUDI42-SF/DF	84.50mm DRY TYPE FLANGE SLEEVE	S4 V-8 4.2L FLATS
AUDI-RS42-SF/DF	84.50mm DRY TYPE FLANGE SLEEVE	RS-4 V-6 2.7L FLATS

BMW™

PART NUMBER	BORE	APPLICATION
BMW44-DF/SF	92-94mm DRY TYPE FLANGED SLEEVE	1994-05 M62 740I V-8 SINGLE FLAT
BMW-V10 DF/SF	92-94mm DRY TYPE FLANGED SLEEVE	2005-10 S85/M5 5.0L V-10 DOUBLE FLATS
BMW-V12	84-86mm DRY TYPE FLANGED SLEEVE	1988-96 M70/S70 V-12
BMWN54-DF/SF	84.00mm DRY TYPE FLANGE SLEEVE	2006-16' 3.0L INLINE-6
BMW62-DF/SF	92mm - 94mm DRY TYPE FLANGE SLEEVE	M-62 1995-05' 4.8L V-8
BMW-S62 DF/SF	94mm DRY TYPE FLANGED SLEEVE	S-62 4.9L V-8 DOUBLE FLATS
BMWS54DF/SF	87mm DRY TYPE FLANGED SLEEVE	S-54 INLINE 6 DOUBLE / SINGLE FLATS
BMWS55-DF/S	84.00mm DRY TYPE FLANGE SLEEVE	S-55 INLINE-6 CYLINDER
BMWS63-DF/SF	89.00mm DRY TYPE FLANGED SLEEVE	2009-22' S-63 4.4L V-8
BMWS58-DF/SF	84.00mm DRY TYPE FLANGE SLEEVE	S-58 3.0L INLINE-6
FL-3364	82mm DRY TYPE FLANGED SLEEVE	2012-19' 2.0L INLINE 4
FL-3364DF/SF	82-85mm AMPHIBIAN PROCROSS PROCOOL	2012-19' 2.0L INLINE 4 DOUBLE / SINGLE FLATS
FL-3364DF/SFBB	86-87mm AMPHIBIAN PROCROSS PROCOOL	2012-19' 2.0L INLINE 4 DOUBLE / SINGLE FLATS
FL-3336-DF/SF	92mm DRY TYPE FLANGED SLEEVE	S-65 4.0L V-8 DOUBLE FLATS
FL3380 DF/SF	84mm-86mm AMPHIBIOUS	2011-24' 2.0L N20, B20 4-CYL, N26, 320I
BMW-B58 DF/SF	82mm-84.5mm DRY FLANGED TYPE	2015-24' 3.0L B58 INLINE 6-CYL
BMW-M54 DF/SF	84.00mm DRY FLANGED TYPE	2000-06' INLINE 6-CYL
BMW-N55 DF/SF	84mm-84.50mm DRY FLANGED TYPE	2009-19' INLINE 6-CYL
BMW-M60 DF/SF	89mm-90mm DRY FLANGED TYPE	1992-96' V-8
BMW-M62 DF/SF	92mm-94mm DRY FLANGED TYPE	1995-05' V-8

BRODIX™ & RODECK™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3259	3.995	4.272	4.481	0.188	5.535	SBC 4"
FL-3263	4.115	4.3	4.481	0.188	5.535	SBC 4-1/8" O/S
FL-3164	4.449	4.636	4.995	0.252	6.35	BIG BLOCK

CUMMINS DIESEL™

PART NUMBER	BORE	APPLICATION
CUMMINS-59L	4.016" ID (102mm), STRAIGHT WALL DRY TYPE SLEEVE	1998-02 5.9L INLINE 6
CUMMINS-59FLG	4.016" ID (102mm), DRY TYPE FLANGED SLEEVE	1998-02 5.9L INLINE 6
T-674	4.210 STD STRAIGHT SLEEVE	4.6L & 6.7L (OE PART# 4919951)
LA-674	4.210 STD STRAIGHT SLEEVE 3/32 WALL	4.6L & 6.7L INLINE 6
L-674	4.210 STD STRAIGHT SLEEVE 1/8 WALL	4.6L & 6.7L INLINE 6
FL-3372	4.210 STD DRY TYPE FLANGED PERFORMANCE	4.6L & 6.7L INLINE 6

DART™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3301DF	4.115	4.300	4.500	.200	6.100	CHEVY 9.800 DECK
FL-3302DF	4.115	4.300	4.500	.200	5.925	CHEVY 9.325 DECK
FL-3303DF	4.115	4.300	4.500	.200	5.625	CHEVY 9.025 DECK

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DODGE VIPER™

PART NUMBER	BORE	APPLICATION
FL-3210	4.030" ID (102.4mm), WET TYPE FLANGED REPLACEMENT SLEEVE	1992-95 GEN I RT10 V-10 8.0L
VIPER-2	4.000" ID (101.6mm), DRY TYPE FLANGED REPLACEMENT SLEEVE	1992-95 GEN I RT10 V-10 8.0L
VIPER-3	4.030" ID (102.4mm), DRY TYPE FLANGED SLEEVE RS 4.167" SLV O.D.	1996-02 GEN II RT10/GTS V-10 8.0L
VIPER-4220	4.030" ID (102.4mm), DRY TYPE FLANGED SLEEVE RS 4.220" SLV O.D.	2003-06 GEN III SRT10 V-10 8.3L
FL-3357DF/SF	87.50-91mm PROCROSS PROCOOL CLOSED DECK	DODGE CALIBER SINGLE/DOUBLE FLATS
FL-3367	87mm DRY TYPE FLANGED PERFORMANCE	2.5L SRT IRON BLOCK INLINE 4
FL-3367DF/SF	87-89mm DRY TYPE FLANGED PERFORMANCE	2.5L SRT IRON BLOCK DOUBLE/SINGLE FLATS

DONOVAN™ REPAIR SLEEVES

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3267	3.990	4.272	4.371	.190	5.575	SBC 4"
FL-3269	4.110	4.272	4.371	.190	5.575	SBC 4"
FL-3310	4.115	4.272	4.371	.189	6.070	SBC 4 1/8" TALL DECK
FL-3271	4.485	4.702	4.896	.188	6.300	700
FL-3272	4.485	4.731	4.896	.188	7.690	700 TD

FORD™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3242	3.425	3.643	3.776	.300	5.480	DURATEC™
FL-3243	3.660	3.822	4.040	.160	5.160	4.6L MODULAR
FL-3244	3.500	3.793	3.935	.285	5.255	4.6L MODULAR
LA-3820	3.500	3.820	STRAIGHT SLEEVE	STRAIGHT SLEEVE	5.250	4.6L MODULAR
LA-3822	3.660	3.822	STRAIGHT SLEEVE	STRAIGHT SLEEVE	6.235	5.4L
FL-3245	3.970	4.251	4.500	.250	5.825	FORD351
FL-3246	3.970	4.300	4.500	.260	5.680	351 CLEVELAND
FL-3144	4.495	4.801	5.200	.324	7.150	8.3L TALL
FL-3143	4.370	4.801	5.200	.324	7.150	8.3L TALL
FL-3249	4.360	4.820	5.200	.325	8.00	AR FORD 4.020
FL-3286	4.115	4.251	4.500	.250	5.890	SVO
FL-3328DF	89mm TO 96mm		DRY TYPE FLANGED SLEEVE			1996-13 3.0L DURATEC V-6 DOUBLE FLATS
FL-3328SF	89mm TO 96mm		DRY TYPE FLANGED SLEEVE			1996-13 3.0L DURATEC V-6 SINGLE FLAT
FORD-3021B	4.030		DRY TYPE FLANGED SLEEVE			2010-13 BOSS302 IRONBLOCK
FORD-3940	3.740		STRAIGHT WALL DRY TYPE SLEEVE			2003-12 6.0L VT365
FORD-64L	3.860		STRAIGHT WALL DRY TYPE SLEEVE			2008-13 6.4L POWERSTROKE
FORD-64FLG	3.860		DRY TYPE FLANGED SLEEVE			2008-13 6.4L POWERSTROKE
L-85D	3.660 SEMI		STRAIGHT WALL DRY TYPE SLEEVE			COYOTE 5.0L
L-005D	3.610 SEMI		STRAIGHT WALL DRY TYPE SLEEVE			COYOTE 5.0L
FL-3353SF	95.50-98mm		DRY TYPE FLANGED SLEEVE			3.7L V-6 MUSTANG SINGLE FLATS
FL-3353DF	95.50-98mm		DRY TYPE FLANGED SLEEVE			3.7L V-6 MUSTANG DOUBLE FLATS
FL-3355DF	3.530 SEMI		DRY TYPE FLANGED SLEEVE			5.4L CAST IRON BLOCK SINGLE FLAT
FL-3355SF	3.530 SEMI		DRY TYPE FLANGED SLEEVE			5.4L CAST IRON BLOCK DOUBLE FLATS
FORD-46DF/SF	3.610 SEMI		DRY TYPE FLANGED SLEEVE			COYOTE 5.0L DOUBLE/SINGLE FLATS
FORD-54DF/SF	3.700		DRY TYPE FLANGED SLEEVE			5.4L V-8 DOUBLE/SINGLE FLATS
FORD-67L	3.905 STD		STRAIGHT SLEEVE			2015-18' 6.7L POWERSTROKE DIESEL V8
FORD-67FLG	3.905 STD		DRY TYPE FLANGED PERFORMANCE			2015-18' 6.7L POWERSTROKE DIESEL V8
FL-3369DF/SF	93.45-96mm		AMPHIBIAN PROCROSS PROCOOL			2016-19' 3.5L V6 TURBO DOUBLE/SINGLE FLATS
FL-3369-CDDF/SF	93.45-96mm		AMPHIBIAN CLOSED DECK PROCOOL			2016-19' 3.5L V6 TURBO DOUBLE/SINGLE FLATS
FL-3371-DF/SF	89-92mm		DRY TYPE FLANGED PERFORMANCE			2010-18' 2.5L DURATEC INLINE 4 DOUBLE/SINGLE FLATS
FL3376CD DF/SF	79MM TO 82MM		AMPHIBIAN CLOSED DECK PROCOOL			FIESTA ST 1.6L INLINE-4 FLATS





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GENERAL MOTORS™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3189	3.875	4.255	4.395	.125	5.525	LS1 STD BORE TO 4.125
FL-3188	4.050	4.255	4.395	.125	5.525	LS1 4.060 TO 4.125
FL-3235	3.875	4.185	4.325	.290	5.585	LS1, LS6 STD REPLACEMENT
FL-3236	4.050	4.277	4.420	.255	5.745	LS2 4.060 TO 4.155 BORE
FL-3237	4.115	4.272	4.380	.230	5.550	BOWTIE SBC™
FL-3238	4.115	4.300	4.380	.230	5.550	BOWTIE SBC OVERSIZE OD
FL-3133D	3.970	4.200	4.390	.125	6.000	CHEVY 350™
FL-3135D	3.970	4.254	4.500	.200	6.000	CHEVY 350
FL-3137D	4.090	4.315	4.440	.125	7.750	CHEVY 400
FL-3138D	4.090	4.375	4.500	.125	6.750	CHEVY 400
FL-3139D	4.210	4.500	4.625	.200	6.750	CHEVY 427 / 454
FL-3317DF	4.100	4.303	4.560	.200	5.875	LS-7 OEM Replacement Double Flats
FL-3287DF	3.970	4.325	4.575	.215	5.800	LS2/LS7 4" BORE DOUBLE FLATS
FL-3287SF	3.970	4.325	4.575	.215	5.800	LS2/LS7 4" BORE SINGLE FLAT
FL-3288DF	4.100	4.325	4.575	.215	5.800	LS7 4 1/8" BORE DOUBLE FLATS
FL-3288SF	4.100	4.325	4.575	.215	5.800	LS7 4 1/8" BORE SINGLE FLAT
FL-3318DF	4.115	4.2825	4.480	.222	6.034	C-5R BIG BLOCK DOUBLE FLATS
FL-3344	4.065	4.300	4.395	.260	5.680	6.2L LS-3 L94
FL-3232	4.000	4.240	4.323	.280	5.500	LS-2 RS SLEEVE
LA-40D	3.970	4.191	STRAIGHT SLEEVE		6.000	CHEVY 350
L-40D	3.970	4.254	STRAIGHT SLEEVE		6.000	CHEVY 350
L-41D	3.970	4.254	STRAIGHT SLEEVE		6.625	CHEVY 350
L-64	4.470	4.754	STRAIGHT SLEEVE		7.750	BIG BLOCK
LA-51D	4.090	4.315	STRAIGHT SLEEVE		6.312	CHEVY 400
L-51D	4.090	4.379	STRAIGHT SLEEVE		6.312	CHEVY 400
LA-53D	4.220	4.441	STRAIGHT SLEEVE		7.000	CHEVY 427 / 454
L-53D	4.220	4.504	STRAIGHT SLEEVE		7.000	CHEVY 427 / 454
FL-3144	4.490	4.801	5.200	.324	7.150	BIG BLOCK FLANGED
FL-3312	3.464	3.583	3.760	.175	5.580	2006 ECOTEC STD. BORE REPLACEMENT 2.4L
FL-3241SF	3.375	3.570	3.825	.200	5.625	ECOTEC™ SINGLE FLAT (NOT FOR SOLTICE)
FL-3241DF	3.375	3.570	3.825	.200	5.625	ECOTEC™ DOUBLE FLATS (NOT FOR SOLTICE)
FL-3179	4.225	4.550	4.660	.295	6.240	ZL-1 CORVETTE™
FL-3233	3.995	4.305	4.500	.200	6.000	6.5L HUMMER REPAIR SLEEVE
FL-3231	4.245	4.443	4.750	.235	6.305	1969 ZL-1 CORVETTE™
FL-3331	86MM	DRY TYPE FLANGED SLEEVE				2004-07 LSJ 2.0L/2.2L INLINE 4
ECOTEC-20DF/SF	86MM	WET TYPE PROCROSS PROCOOL FLANGED SLEEVE				2004-07 LSJ 2.0L/2.2L INLINE 4 DOUBLE/SINGLE FLATS
ECOTEC-24DF/SF	88MM	WET TYPE PROCROSS PROCOOL FLANGED SLEEVE				2006-09 LE5 2.4L INLINE 4 DOUBLE/SINGLE FLATS
L-41D	4.060"	STRAIGHT WALL DRY TYPE SLEEVE				2003-21' 6.6L V8 DURAMAX
DURAMAX-6.6L	4.060"	DRY TYPE FLANGED SLEEVE				2003-21' 6.6L V8 DURAMAX
FL-3383	3.780 (96mm)	STD DRY TYPE FLANGED SLEEVE				LS 5.3L VORTEC GEN III LM7, L33, L59, LM4 V8
FL-3383B	3.780 to 4.125	BIG BORE DRY TYPE FLANGED				LS 5.3L VORTEC GEN III LM7, L33, L59, LM4 V8
FL3370	94mm	DRY FLANGED SLEEVE				2016-22' 3.6L V-6
FL-3370 DF/SF	94mm TO 98mm	AMPHIBIAN PROCROSS PROCOOL				2016-19' CADILLAC 3.6L V-6 FLATS

HONDA™ / ACURA™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3216DF	2.900	3.250	3.600	2.00	5.275	D16 DOUBLE FLATS
FL-3216SF	2.900	3.250	3.600	2.00	5.275	D16 SINGLE FLAT
FL-3315	3.150	3.475	3.580	.375	5.250	B16
FL-3316DF	3.150	3.515	3.800	2.00	5.200	B16 DOUBLE FLATS
FL-3316SF	3.150	3.515	3.800	2.00	5.200	B16 SINGLE FLAT
FL-3386DF/SF	3.150	3.500	3.800	2.00	5.400	B18 DOUBLE/SINGLE FLATS

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HONDA™ / ACURA™ (CONTINUED)

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3349	3.150	3.450	3.540	.250	5.450	B18 SMALL FLANGE SLEEVE
LAS-3500	3.150	3.500	STRAIGHT SLEEVE		5.500	B18
FL-3295	3.370	3.645	3.745	.125	5.500	H22/H23/F22 1992-95'
FL-3229SF	3.350	3.655	4.100	2.00	5.500	2.2 / 2.3L SINGLE FLAT 1996-07'
FL-3229DF	3.350	3.655	4.100	2.00	5.500	2.2 / 2.3L DOUBLE FLAT 1996-07'
FL-3313DF/SF	3.370	3.850	4.400	.750	5.300	NSX 86MM TO 93MM DOUBLE/SINGLE FLATS
FL-3314DF/SF	3.370	3.850	4.000	.750	5.300	NSX 86MM TO 93MM DOUBLE/SINGLE FLATS
FL-3297DF/SF	3.275	3.475	3.800	2.00	5.400	B-20 84MM TO 86.50MM DOUBLE/SINGLE FLATS
FL-3298DF/SF	3.375	3.650	4.200	2.00	5.800	F20 DOUBLE/SINGLE FLATS
FL-3299DF/SF	3.375	3.650	4.200	2.00	5.225	K20 DOUBLE/SINGLE FLATS
FL-3300DF/SF	3.375	3.650	4.200	2.00	5.900	K24 DOUBLE/SINGLE FLATS
FL-3323DF/SF	89-90mm	3.790	4.200	1.750	5.450	J32A / J35 3.2L / 3.5L V-6 DOUBLE/SINGLE FLATS
FL-3333DF/SF	81-86.5mm		DRY TYPE PROCROSS PROCOOL CLOSED DECK			B16/B18 DOUBLE/SINGLE FLATS
FL-3334DF/SF	87-90mm		DRY TYPE PROCROSS PROCOOL CLOSED DECK			K24 DOUBLE/SINGLE FLATS
FL-3335DF/SF	86-90mm		DRY TYPE PROCROSS PROCOOL CLOSED DECK			K20 SINGLE/DOUBLE FLAT

HYUNDAI™

PART NUMBER	BORE	FLANGE DIAMETER	FLANGE THICKNESS	APPLICATION
FL-3355			DRY TYPE FLANGED SLEEVE	2014-16' GENESIS 3.6L V-8
FL-3355SF/ DF	96mm-99.5mm	AMPHIBIAN TYPE PROCROSS PROCOOL FLANGED SLEEVE		2014-16' GENESIS 3.6L V-8 SINGLE / DOUBLE FLATS
FL-3355CDF/ DF	96mm-99.5mm	AMPHIBIAN PROCROSS PROCOOL CLOSED DECK		2014-16' GENESIS 3.6L V-8 SINGLE / DOUBLE FLATS
FL-3365DF/SF	86-90mm	AMPHIBIAN PROCROSS PROCOOL		2.0L INLINE 4 DOUBLE / SINGLE FLATS

KEITH BLACK™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
KB1	4.250	4.635	4.995	.252	6.860	STAGE 5, 6, 7, 8, 10
KB2	4.187	4.635	4.995	.252	6.860	STAGE 5, 6, 7, 8, 10
KB3	4.187	4.535	4.995	.252	6.860	STAGE 5, 6, 7, 8, 10
KB5	4.187	4.535	4.995	.252	6.960	STAGE 5, 6, 7, 8, 10 TALL DECK
FL-3311	4.187	4.535	4.995	.252	6.860	STAGE 15
FL-3292	4.310	4.635	4.995	.252	6.860	DRY SLEEVE
FL-3293	4.310	4.635	4.995	.252	7.360	DRY SLEEVE TALL DECK
FL-3294	4.310	4.700	4.995	.252	7.360	DRY SLEEVE TALL DECK

LAMBORGHINI™

PART NUMBER	BORE	APPLICATION
FL-3342DF/SF	82.50mm DRY TYPE FLANGED SLEEVE	V-10 5.0L GALLARDO DOUBLE/SINGLE FLATS
FL-3343DF/SF	84.50mm DRY TYPE FLANGED SLEEVE	V-10 5.2L GALLARDO DOUBLE/SINGLE FLATS
FL-3337	87.00mm DRY TYPE FLANGED SLEEVE	DIABLO 5.7L

LAND ROVER / DISCOVERY™

PART NUMBER	BORE	APPLICATION
ROVER1	94mm DRY TYPE FLANGED REPAIR SLV	3.9 / 4.0 / 4.6L V-8
FL-3332	80mm FACTORY REPLACEMENT SLEEVE	2.5L FREELANDER

LEXUS™

PART NUMBER	BORE	APPLICATION
FL-3359DF/SF	94-99.50mm AMPHIBIAN PROCROSS PROCOOL	ZUR-GSE 5.0L V8 DOUBLE/SINGLE FLATS

MAZDA™

PART NUMBER	APPLICATION
FL-3338DF	2.3L MZR INLINE 4 DOUBLE FLATS
FL-3338SF	2.3L MZR INLINE 4 SINGLE FLAT




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MERCEDES™

PART NUMBER	BORE	APPLICATION
MERCEDES-55DF/SF	98mm DRY TYPE FLANGED SLEEVE	5.5L V-8 AMG
MERCEDES-M278	92.9mm DRY FLANGED TYPE	2010-20' M-278 4.7L V-8

MERLIN™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3255DF	4.490	4.731	4.896	.188	6.175	9.800 DECK DOUBLE FLATS
FL-3256DF	4.490	4.731	4.896	.188	6.575	10.200 DECK DOUBLE FLATS

MINI COOPER™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
MINI-3187	77mm DRY TYPE FLANGED SLEEVE	3.187	3.300	.200	5.330	MINI COOPER ALUMINUM BLOCK 1.6L INLINE 4
MINI3310-DF/SF	78mm DRY TYPE FLANGED SLEEVE	3.310	3.500	.175	5.150	CAST IRON BLOCK INLINE 4
FL-3350	77mm DRY TYPE FLANGED SLEEVE	3.220	3.350	.350	5.330	1.6L INLINE 4 JQA ALUM BLOCK
FL-3364	82mm DRY TYPE FLANGED SLEEVE					2012-19' 2.0L INLINE 4
FL-3364DF/SF	82-85mm AMPHIBIAN PROCROSS PROCOOL					2012-19' 2.0L INLINE 4 DOUBLE/SINGLE FLATS
FL-3364DF/SFBB	86-87mm AMPHIBIAN PROCROSS PROCOOL					2012-19' 2.0L INLINE 4 DOUBLE/SINGLE FLATS
FL-3373 DF/SF	77mm-79mm AMPHIBIAN OPEN DECK PROCOOL					1.6L GEN II INLINE-4 FLATS
FL-3373CD DF/SF	77mm-79mm AMPHIBIAN CLOSED DECK PROCOOL					1.6L GEN II INLINE-4 FLATS

MITSUBISHI™

PART NUMBER	BORE	APPLICATION
FL-3320SF	86-90mm DRY TYPE FLANGED SLEEVE	2.0L 4B11T EVO-X 2010-16 SINGLE FLAT
FL-3320DF	86-90mm DRY TYPE FLANGED SLEEVE	2.0L 4B11T EVO-X 2010-16 DOUBLE FLAT
FL-3320SF	86-90mm DRY TYPE FLANGED SLEEVE	2.0L 4B11T EVO-X 2010-16 SINGLE FLAT
FL-3320CDSF	86-90mm PROCROSS PROCOOL CLOSED DECK	2.0L 4B11T EVO-X 2010-2016 SINGLE FLAT
FL-3320CDDF	86-90mm PROCROSS PROCOOL CLOSED DECK	2.0L 4B11T EVO-X 2010-2016 DOUBLE FLATS

MOPAR™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3250	3.990	4.210	4.540	.188	5.545	SMALL BLOCK
FL-3251	4.095	4.301	4.540	.188	5.545	SMALL BLOCK

NISSAN™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3275	3.375	3.715	3.820	.160	5.340	SR20
FL-3283DF/SF	3.347	3.642	3.858	.175	4.600	RB26 DOUBLE/SINGLE FLATS
FL-3339	95.50-98mm					3.5L VQ35 2001-13 V-6
FL-3340DF/SF	95.50-98mm					3.5L VQ35 DOUBLE/SINGLE FLATS
FL-3341	95.50-98mm					3.8L VR38 GTR V-6
FL-3354	95.50mm					3.7L VQ37 V-6 2008-15
FL-3361DF/SF	87-90mm					2.5L SENTRA SER INLINE 4 DOUBLE/SINGLE FLATS
FL-3366	86-91mm					VR-30 3.0L V6
FL3366CD-DF/SF	86-92mm					VR-30 3.0L V6 DOUBLE/SINGLE FLATS

PORSCHE™

PART NUMBER	BORE	APPLICATION
P-911	90mm DRY TYPE FLANGED SLEEVE	911 AIR COOLED 6 CYLINDER
P-911BB	95mm BIG BORE FLANGED SLEEVE	911 AIR COOLED 6 CYLINDER
P-911BB2	101mm BIG BORE FLANGED SLEEVE	911 AIR COOLED 6 CYLINDER

Continued next page



562-945-7578

PORSCHE™ (CONTINUED)

PART NUMBER	BORE	APPLICATION
P-911BB4	104mm BIG BORE FLANGED SLEEVE	911 AIR COOLED 6 CYLINDER
P-996	96mm DRY TYPE FLANGED SLEEVE	3.4L/3.6L 996 BOXER BLOCK
P-996H	96mm PROCROSS PROCOOL SLEEVE	3.4L/3.6L 996 BOXER BLOCK
FL-3209	100mm DRY TYPE FLANGED SLEEVE	944 MOTOR
FL-3217	100mm WET TYPE REPLACEMENT SLEEVE	996TT
FL-3217B	102mm BIG BORE WET TYPE REPLACEMENT	996/997TT
FL-3284	85.39mm DRY TYPE REPLACEMENT SLEEVE	2.5L MOTOR
FL-3321H	96mm PROCROSS PROCOOL SLEEVE	3.4L/3.6L 996/997
FL-3321	99mm DRY TYPE FLANGED SLEEVE	3.8L 996/997
FL-3321B	99mm PROCROSS PROCOOL SLEEVE	3.8L 996/997
FL-3351	93mm - 99mm DRY TYPE FLANGE SLEEVE	4.5L V-8 BLOCK
FL-3368HN	93.00-102mm AMPHIBIAN PROCROSS PROCOOL	996 3.2L 6-CYL BOXER BLOCK "HIGH NOTCH"
FL-3368SN	93.00-102mm AMPHIBIAN PROCROSS PROCOOL	996 3.2L 6-CYL BOXER BLOCK "SHORT NOTCH"
FL-3379	96mm DRY TYPE FLANGED SLEEVE	3.6L MACAN V-6 BLOCK
FL3381	102mm DRY TYPE FLANGED SLEEVE	991T V-6 BLOCK

SUBARU™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3277	3.625	4.202	4.400	.375	4.800	EJ20 / EJ25
FL-3278	3.910	4.253	4.495	.375	4.800	EJ25 100 mm to 102 mm
FL-3285SF	3.622	3.800	4.260	2.400	5.125	TRIBECA SVX 94-96 mm SINGLE FLAT
FL-3285DF	3.622	3.800	4.260	2.400	5.125	TRIBECA SVX 94-96 mm DOUBLE FLAT
SUBYEJ20	92 -99.50mm	4.100	WET TYPE FLANGED SLEEVE PROCROSS PROCOOL CLOSED DECK			2.0L 4 CYLINDER
SUBYEJ25	99.50-102mm	4.250	WET TYPE FLANGED SLEEVE PROCROSS PROCOOL CLOSED DECK			2.5L 4 CYLINDER
SUBYEJ25NP	99.50-102mm	4.250	WET TYPE FLANGED SLEEVE PROCROSS PROCOOL CLOSED DECK			2.5L 4 CYLINDER NO PIN HOLE FOR STROKER
FL3345CD-SF	86mm		PROCROSS PROCOOL CLOSED DECK			2.0L BR-Z Single Flat
FL-3345			PROCROSS PROCOOL WET TYPE SLEEVE			2.0L BR-Z
FL-3382			94mm DRY FLANGED TYPE			2022-24' GR86 4-CYL BOXER
FL-3382B			94mm-101.5mm AMPHIBIOUS			2022-24' GR86 4-CYL BOXER
SUBYEG33-DF/SF			99.50mm BIG BORE AMPHIBIOUS			EG33 6-CYL BOXER

SCION™

PART NUMBER	BORE	APPLICATION
FL3345CD-SF	PROCROSS PROCOOL CLOSED DECK	2.0L FRS Single Flat
FL-3345	PROCROSS PROCOOL WET TYPE SLEEVE	2.0L FRS

TOYOTA™

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
FL-3279	3.100	3.382	3.530	.295	5.400	1ZZ BORE TO 82.50 MM
FL-3280	3.210	3.382	3.530	.295	5.200	2ZZ BORE TO 82.50 MM
FL-3351SF	94-99.50mm		DRY TYPE FLANGED SLEEVE			5.7L V-8 3UR-FE SINGLE FLAT
FL-3351DF	94-99.50mm		DRY TYPE FLANGED SLEEVE			5.7L V-8 3UR-FE DOUBLE FLATS
FL-3359DF/SF	94-99.50mm		AMPHIBIAN PROCROSS PROCOOL			2UR-GSE 5.0L V8 DOUBLE/SINGLE FLATS
TOYOTA3SGTE-DF/SF	86-88mm		AMPHIBIAN PROCROSS PROCOOL			3SGTE 2.0L INLINE 4 CAST IRON DOUBLE FLAT/SINGLE FLATS
FL-3375 DF/SF	88.50mm-91.50mm		AMPHIBIAN OPEN DECK PROCOOL			2.4L 2AZ (FE/FSE/FXE) INLINE-4 FLATS
FL-3375CD DF/SF	88.50mm-91.50mm		AMPHIBIAN CLOSED DECK PROCOOL			2.4L 2AZ (FE/FSE/FXE) INLINE-4 FLATS

TFX™ T/F & T/A

PART NUMBER	BORE	O.D.	FLANGE DIAMETER	FLANGE THICKNESS	LENGTH	APPLICATION
TFX1	4.187	4.550	4.995	.254	6.800	TFX/BAE
TFX4	4.250	4.610	4.995	.254	6.800	TFZ/BAE
TFX9	4.187	4.610	4.995	.254	6.800	TFZ/BAE
TFX15	4.187	4.449	4.995	.254	6.800	TFX/BAE "LIGHTWEIGHT SLEEVE"
TFX11	4.375	4.610	4.995	.254	6.300	TFZ/BAE
TFX16	4.4675	4.667	4.998	.400	6.800	BAE
TFX17	4.4675	4.666	4.995	.400	6.300	BAE SHORT DECK

VOLVO

PART NUMBER	BORE	APPLICATION
FL3374 DF/SF	83mm-86mm AMPHIBIAN OPEN DECK	2.5L S60 (+TURBO) INLINE-5 FLATS
FL3374CD DF/SF	83mm-86mm AMPHIBIAN CLOSED DECK	2.5L S60 (+TURBO) INLINE-5 FLATS



L.A. SLEEVE CO.



ALL PURPOSE FLANGE SLEEVES

Truck - Compressor - Forklift - for Engines
not listed in Cut to Length Sleeves

SLEEVE INSIDE DIAMETER		PART NO.	O.D.	FLANGE O.D.	FLANGE THK.	SLEEVE LENGTH
MM	INCHES					
47mm	1.850"	FL-47	2.100"	2.225"	.200"	5.250"
48mm	1.890"	FL-48	2.140"	2.265"	.200"	5.250"
49mm	1.930"	FL-49	2.180"	2.305"	.200"	5.250"
50mm	1.968"	FL-50	2.220"	2.345"	.200"	5.250"
52mm	2.047"	FL-52	2.297"	2.422"	.200"	5.250"
54mm	2.125"	FL-54	2.375"	2.500"	.200"	5.250"
56mm	2.205"	FL-56	2.455"	2.580"	.200"	5.250"
58mm	2.283"	FL-58	2.530"	2.655"	.200"	6"
60mm	2.362"	FL-60	2.625"	2.750"	.200"	6"
62mm	2.441"	FL-62	2.690"	2.815"	.200"	6"
64mm	2.520"	FL-64	2.770"	2.895"	.200"	6"
65mm	2.559"	FL-65	2.810"	2.935"	.200"	6"
66mm	2.598"	FL-66	2.850"	2.975"	.200"	6"
67mm	2.637"	FL-67	2.890"	3.015"	.200"	6"
68mm	2.677"	FL-68	2.930"	3.055"	.200"	6"
70mm	2.755"	FL-70	3.005"	3.130"	.200"	6"
72mm	2.835"	FL-72	3.085"	3.210"	.200"	6"
73mm	2.874"	FL-73	3.125"	3.250"	.200"	6"
74mm	2.913"	FL-74	3.165"	3.290"	.200"	6"
75mm	2.952"	FL-75	3.200"	3.325"	.200"	6.500"
76mm	2.992"	FL-76	3.250"	3.375"	.200"	6.500"
78mm	3.070"	FL-78	3.320"	3.445"	.200"	6.500"
80mm	3.150"	FL-80	3.400"	3.525"	.200"	6.500"
82mm	3.228"	FL-82	3.480"	3.605"	.200"	6.500"
83mm	3.267"	FL-83	3.520"	3.645"	.200"	6.500"
84mm	3.307"	FL-84	3.560"	3.685"	.200"	6.500"
86mm	3.386"	FL-86	3.635"	3.760"	.200"	6.500"
88mm	3.464"	FL-88	3.715"	3.840"	.200"	6.500"
89mm	3.503"	FL-89	3.755"	3.880"	.200"	6.500"
90mm	3.543"	FL-90	3.795"	3.920"	.200"	6.500"
92mm	3.622"	FL-92	3.875"	4.000"	.200"	6.500"
94mm	3.700"	FL-94	3.955"	4.080"	.200"	6.500"
98mm	3.858"	FL-98	4.110"	4.235"	.200"	6.500"
100mm	3.937"	FL-100	4.190"	4.315"	.200"	6.500"
101.6mm	4"	FL-3133D	4.200"	4.390"	.125"	6"
101.6mm	4"	FL-3135D	4.253"	4.500"	.200"	6"
104.8mm	4.125"	FL-3137D	4.315"	4.440"	.125"	6.750"
104.8mm	4.125"	FL-3138D	4.375"	4.500"	.125"	6.750"
108mm	4.250"	FL-3139D	4.500"	4.625"	.200"	6.750"
		Sleeve has bore stock to allow boring to cylinder I.D. listed				

HOW TO ORDER A CUSTOM SLEEVE

Scan your print and email to info@lasleeve.com or FAX to **562-698-7029**. Designate appropriate dimensions on the drawing and provide the information requested. L.A.SLEEVE will return back to you shortly with quote and lead time. Note that custom sleeve orders require a one-half deposit to initiate production.

CUSTOMER # _____ CONTACT _____ DATE _____
NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
PHONE _____ FAX _____

METHOD OF PAYMENT:

☐ MONEY ORDER
☐ MASTERCARD/VISA/DISCOVER
SELECT ☐ GROUND SERVICE

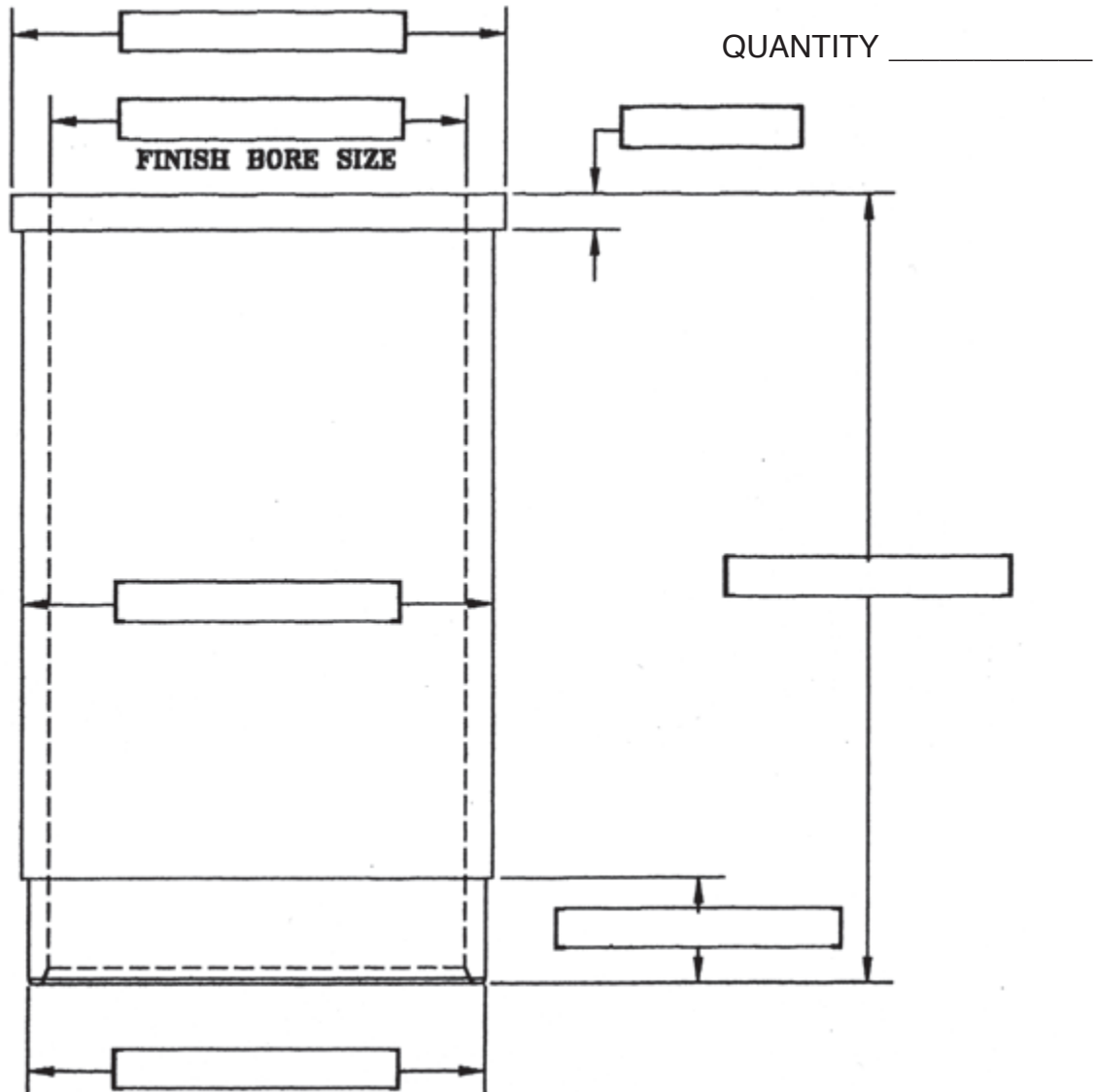
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12051 RIVERA RD.
SANTA FE SPRINGS, CA 90670





CUSTOM SLEEVES

L.A. SLEEVE CO. produces centrifugally spun-cast chrome-moly iron alloy cylinder sleeves for all engine repair markets, which include Automotive, Drag Race, Nascar, Indy Car, Circle Track, Heavy Duty, Industrial, Tractor, Motorcycle, ATV, PWC, Snowmobile and Marine Industries.

Since the acquisition of our first CNC lathe in 1980, our manufacturing facility has grown to over 30,000 square feet and is filled with more than 30 CNC lathes and mills. We produce high quality cylinder sleeves accurately and efficiently.

Centerless grinding of outside diameters of LASCO sleeves provides for exact roundness and exact size, which is controlled by rigid inspection of one-half thousandth of an inch. We invite comparison of our sleeves with other leading makes for size, roundness and finish.

Custom-made cylinder sleeves to your specifications are available from L.A.SLEEVE. Quantities from one sleeve to full production are gladly accepted.

In many instances, catalog item sleeves that are on the shelf may be close in size to fulfill the requirements. Call our technical staff, we will be glad to assist you!

The two most important elements of custom sleeve design are the size required and the material requirements. L.A.SLEEVE stocks an array of raw material sizes ranging from 1-3/4" (45mm) to 8" (200mm).

Cylinder sleeves may be manufactured in different wall thicknesses within this range.

There are three different materials that L.A.SLEEVE uses for custom sleeves. The first and most popular is the Moly 2000 chrome-moly iron. This material covers all applications from hi-performance to small engine. Moly 2000 iron is available in all sizes and the material chosen for ninety percent of all sleeves made. Unless otherwise specified, we make custom sleeves from this material.

The second material is ductile iron (also known as Nodular). This is a high tensile strength, air-quenched iron material and is used for specific high-performance applications such as fuel blown motors. Sleeve availability is limited to a small range of casting sizes.

The third available is aluminum, A355 centrifugally spun or A6061-T651 aluminum. Sleeve sizes are very limited. Also, aluminum sleeves are only made for applications where plating is required.

When designing a sleeve, you need to determine the wall thickness required. You may also design the sleeve using the inside diameter and outside diameter to produce the desired wall thickness.

The method to determine wall thickness: O.D. minus I.D. divided by 2 = wall thickness.

Next, determine the proper length. Finally, if a flange is required, determine the flange outside diameter and flange length (also known as flange thickness).

Allow the inside diameter to be .030" undersize the actual finish bore size dimension. This will give the machine shop bore stock after the sleeve is installed into the cylinder or block. Always note the actual finish bore size as a reference on the drawing or dimension spec sheet.

Some sleeve applications require the bore size to be finish honed to the exact size. L.A.SLEEVE is able to provide the sleeve bore with a sized finish hone. Please be specific when requesting this application.

Some custom sleeves may require O-Ring grooves, flange clearances, notches or radius cuts. L.A.SLEEVE will machine any of these requirements into the custom sleeve. Provide a detailed drawing of all required custom machining and dimensions for a quotation.

Choose one of the drawing templates (Page 2) that most closely matches your requirement. Fill in the requested dimensions and FAX or email the drawing to L.A.SLEEVE for a quotation and delivery.

If you do not see a drawing that matches your requirement, simply provide your own drawing and we will quote the sleeve per your requirements. Or call direct for technical assistance in designing your custom sleeve. Our staff will be glad to help!



Serving The Motorsports Industry For 81 Years.



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