

Westwood Cylinder Liners



WESTWOOD

The Westwood name is synonymous with cylinder liners, a reputation established through years of working with the engine remanufacturing industry and the growing historic vehicle market itself plus those providing specialist services to it.

Our customers include leading engine reconditioners and rebuilders; race engine builders; vintage, historic and marine specialists, as well as o.e. manufacturers.

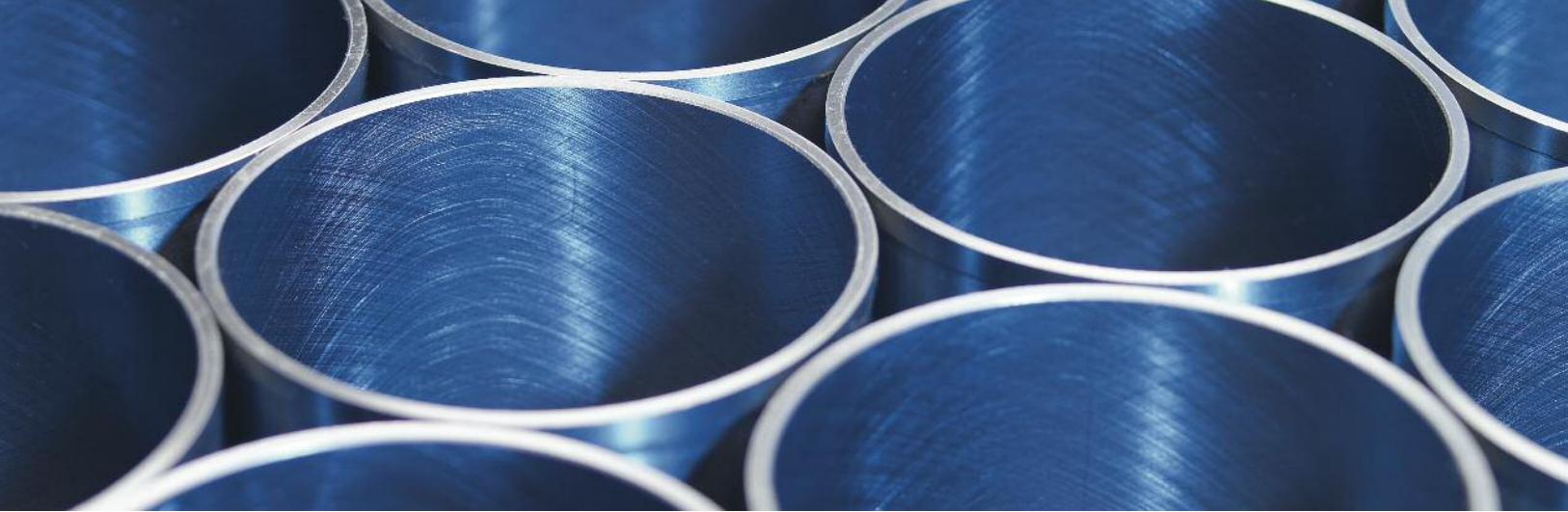
Through supplying liners for current engines as well as classic, historic, vintage and veteran cars, commercial vehicles and motorcycles Westwood has considerable in-depth expertise which is available to help clients to engineer economic and effective solutions.

We produce liners for engines used in most forms of motorsport including historic saloon, single seater and sports car racing; modern and historic rallying and classic bike trials and racing.

Irrespective of the specific design type of liner – dry, flanged or wet – Westwood provides two main types of service, namely...

- **Sized cylinder liners (plain or flanged)**
- **Special manufacture of cylinder liners**





Sized cylinder liners

An extensive range of more than 15,000 plain/flanged liners is held in stock, covering popular sizes from 50mm to 140mm bore. Individual dimensions are listed in our catalogue and liners can be ordered for immediate dispatch by quoting the part number shown.

Where the liner is required for a popular application such as Rover V8, Jaguar XK, Coventry Climax, Ford Twin Cam or BDA, liners from this range can be supplied merely by the precise application being quoted. We are constantly expanding this range to include other popular applications.



Manufactured to order liners

Where the customer's requirements cannot be met from our stock liner ranges for dimensional or technical reasons all types of dry, flanged or wet liners can be manufactured quickly and economically to order.

There is no minimum quantity for special manufacture.

When liners are to be manufactured to order this can be undertaken based on the client's own drawings or samples. We can also discuss matters based on the customer's requirement and reference material which we have established over the years.

Special manufacture is not only for small quantities: volume production runs can be produced to meet the individual, on-going requirements of marque specialists and businesses focusing upon particular specialist engines - whether modern or historic. By having liners which would otherwise have to be specially produced each time, this enables such specialists to offer quicker turnround on engine work and can even result in the restoration of engines which might otherwise be considered uneconomic.

Aston Martin · Auto Union · BSA · BRM · Coventry Climax ·
Ducati · Ferrari · Hispano Suiza · Jaguar · Matchless · Maserati
Norton · Rolls Royce · Sunbeam · Triumph · Velocette ·

Materials

For all general applications Westwood supply liners in centrifugal spun cast iron. This is the standard material for the manufacture of liners and is suitable for most applications. However, we are now able to offer Ductile iron liners for high performance/motorsport requirements. Ductile iron generally has three times the tensile strength of gray cast iron, offering much better qualities for racing applications.

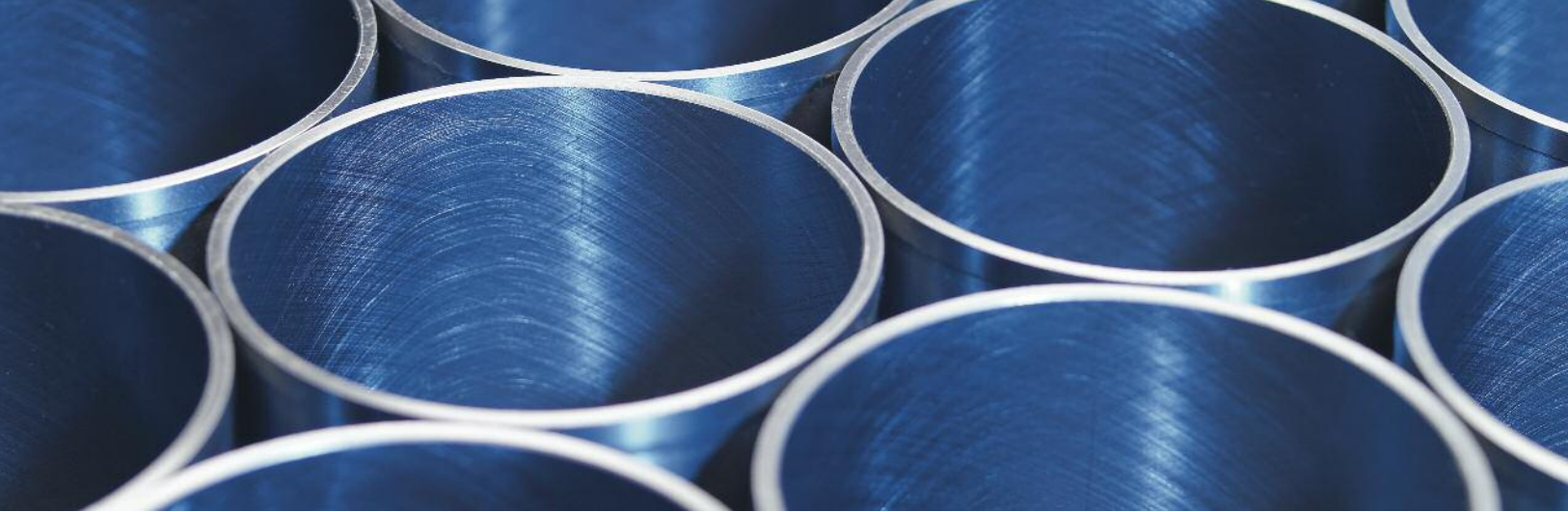
For further information on the materials we offer, please contact us.



In addition to this comprehensive catalogue, Westwood Cylinder Liners also produces a laminated wall chart showing the codes and dimensions of our range of cylinder liners. It should be noted that our range is being constantly expanded as new sizes become stock lines.

Details are also shown on our web site: www.westwoodcylinderliners.co.uk





Our customers now include leading engine reconditioners and rebuilders; race engine builders; vintage, historic and marine specialists, as well as o.e. manufacturers.

Westwood Cylinder Liners Limited now carries more than 15,000 liners in stock at any time and the following catalogue section outlines our present range. This, however, is being updated and expanded constantly, with new sizes added. So should you require a cylinder liner that is not listed please first check our web site www.westwoodcylinderliners.co.uk for the very latest listings. If you still cannot find the size required, please contact us by – phone or email.

We are often able to find a suitable liner which can be machined to your own specification, (ie. o.d. reduced or length shortened), promptly and at little extra cost.

Special manufacture of dry, flanged or wet liners

Westwood manufactures all types of dry, flanged or wet liners. We can manufacture cylinder liners completely to customer requirements from one-off orders to full production runs. All we require to quote is a drawing or sample.

There is no minimum quantity for the special manufacture of cylinder liners.

Important notes on using the Westwood Cylinder Liner Catalogue

All sizes are in Bore Size Order. If you are looking for a specific bore size, search by 'Inside Bore' and then look for the appropriate 'Outside Diameter'.

All Bore Sizes listed in this catalogue are 'nominal finish bore': this means that each liner has a boring allowance of -0.50mm to -1.00mm in the bore for final finishing. e.g a 80.00mm bore size actually measures 79.00-79.50mm.

Some liners are coded 'FF' for fully finished: this means the bore is fully honed to the stated size.

- FL: Flanged Liner**
- FF: Fully Finished Liner**

All sizes quoted are for guide purposes only: each liner must be measured prior to fitting.

Fitting instructions for 'dry' cylinder liners

Dry cylinder liners are supplied with a finished outside diameter and a semi-finished inside bore, the bore being ready for final machining after the liner has been pressed into the block. These liners are with or without a flange, as they are retained in position mostly by interference fit. It is, of course, necessary to machine the cylinder block or housing to accept liners of this type, unless similar liners have been fitted previously.

Westwood Cylinder Liners advises that with some blocks a step should be left at the bottom of each cylinder bore to retain the liner after fitting and to give a more secure fitting to the liner.



PART NO	Inside Diameter		Outside Diameter		Length		Flange O/D		Flange Depth	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
WCL 1A	50.17	1.975	53.98	2.125	177.80	7.000				
L 1302	53.25	2.096	59.17	2.330	118.50	4.665	63.00	2.480	4.50	0.177
WCL 1B FL	55.00	2.165	65.00	2.559	228.60	9.000	70.00	2.756	10.00	0.394
WCL 128	55.88	2.200	58.98	2.322	122.25	4.813				
WCL 2	57.00	2.244	61.00	2.402	203.20	8.000				
WCL 3	58.00	2.283	62.00	2.441	203.20	8.000				
WCL 4	60.00	2.362	64.00	2.520	203.20	8.000				
WCL 5	62.00	2.441	66.00	2.598	203.20	8.000				
WCL 5B FL	62.00	2.441	72.00	2.835	228.60	9.000	80.00	3.150	10.00	0.394
WCL 5A	62.50	2.461	67.00	2.638	203.20	8.000				
L 1249	63.50	2.500	66.68	2.625	179.39	7.063	69.85	2.750	3.18	0.125
WCL 8	64.00	2.520	68.00	2.677	203.20	8.000				
WCL 8A	64.57	2.542	67.10	2.642	134.14	5.281				
WCL 9	65.00	2.559	69.00	2.717	203.20	8.000				
WCL 11	65.00	2.559	69.85	2.750	158.75	6.250				
WCL 11A FL	65.00	2.559	76.05	2.994	228.60	9.000	86.00	3.386	10.00	0.394
WCL 9A	65.50	2.579	69.11	2.721	152.40	6.000				
L 2147	66.00	2.598	69.85	2.750	144.46	5.687				
WCL 10	66.00	2.598	71.00	2.795	203.20	8.000				
WCL 12	66.68	2.625	73.03	2.875	203.20	8.000				
WCL 12A FL	66.75	2.628	74.00	2.913	144.78	5.700	76.00	2.992	7.00	0.276
WCL 12C	66.80	2.630	70.10	2.760	234.95	9.250				
WCL 12B	68.50	2.697	72.00	2.835	203.20	8.000				
WCL 13	69.00	2.717	73.00	2.874	203.20	8.000				
WCL 13B FL	69.00	2.717	73.00	2.874	180.00	7.087	76.50	3.012	4.00	0.157
WCL 13C	69.00	2.717	73.50	2.894	203.20	8.000				
WCL 13D FL	69.00	2.717	79.00	3.110	228.60	9.000	83.00	3.268	10.00	0.394
WCL 14	69.85	2.750	76.20	3.000	203.20	8.000				
L 2148	69.99	2.756	73.08	2.877	149.23	5.875				
WCL 3598	70.61	2.780	73.09	2.878	141.28	5.562				
WCL 13A	70.61	2.780	74.29	2.925	141.28	5.562				
WCL 14A	72.00	2.835	75.00	2.953	152.40	6.000				
WCL 15	72.00	2.835	77.00	3.031	203.20	8.000				
WCL 16	73.00	2.874	76.66	3.018	152.40	6.000				
L 1079	73.03	2.875	76.71	3.020	163.51	6.437				

All sizes are in Bore Size Order. Bore Sizes listed are 'nominal finish bore' – each liner has an allowance of -0.50mm to -1.00mm in the bore for final finishing. All sizes quoted for guide purposes only. Measure each liner prior to fitting. FL – Flanged Liner FF – Fully Finished Liner

PART NO	Inside Diameter		Outside Diameter		Length		Flange O/D		Flange Depth	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
WCL 16A	73.03	2.875	77.77	3.062	203.20	8.000				
WCL 16B	73.03	2.875	79.38	3.125	203.20	8.000				
WCL 18	74.00	2.913	78.00	3.071	203.20	8.000				
WCL 16C FL	74.00	2.913	84.00	3.307	228.60	9.000	94.00	3.701	10.00	0.394
WCL 18C FL	75.00	2.953	78.05	3.073	189.20	7.449	80.85	3.183	4.10	0.161
WCL 18B FL	75.00	2.953	78.65	3.096	204.00	8.031	81.66	3.215	3.25	0.128
WCL 19	75.00	2.953	79.93	3.147	152.40	6.000				
WCL 19A	76.20	3.000	80.95	3.187	203.20	8.000				
WCL 19B	76.20	3.000	82.55	3.250	203.20	8.000				
WCL 20	77.00	3.031	81.05	3.191	203.20	8.000				
WCL 20FL	77.00	3.031	86.00	3.386	228.60	9.000	94.00	3.701	5.00	0.197
WCL 20C	79.38	3.125	82.55	3.250	165.10	6.500				
WCL 20B	79.38	3.125	84.13	3.312	203.20	8.000				
WCL 20D	79.38	3.125	85.80	3.378	234.95	9.250				
WCL 21	79.50	3.130	82.97	3.267	171.45	6.750				
WCL 21A	80.00	3.150	85.00	3.346	203.20	8.000				
WCL 22	80.26	3.160	82.93	3.265	153.92	6.060				
WCL 22C	80.80	3.181	84.56	3.329	203.20	8.000				
WCL 22A	80.95	3.187	84.21	3.315	150.36	5.920				
L 1570	80.95	3.187	84.21	3.315	150.36	5.920	87.24	3.435	4.89	0.193
WCL 22B	80.98	3.188	87.30	3.437	203.20	8.000				
L 1363	82.55	3.250	85.77	3.377	231.00	9.094	88.90	3.500	3.77	0.148
WCL 22E FL	82.55	3.250	85.79	3.378	140.34	5.525	87.24	3.435	3.30	0.130
WCL 23	82.55	3.250	87.63	3.450	203.20	8.000				
WCL 23A	82.55	3.250	88.90	3.500	228.60	9.000				
WCL 24	83.00	3.268	86.23	3.395	177.24	6.978				
WCL 24A FL	83.00	3.268	93.00	3.661	228.60	9.000	96.00	3.780	10.00	0.394
WCL 25	83.50	3.287	88.00	3.465	171.45	6.750				
WCL 24B FL	84.00	3.307	100.00	3.937	228.60	9.000	110.00	4.331	10.00	0.394
WCL 25E FL	84.12	3.312	89.79	3.535	187.96	7.400	94.28	3.712	11.19	0.441
WCL 25F	84.44	3.324	87.33	3.438	152.27	5.995				
WCL 25A	85.00	3.346	89.00	3.504	228.60	9.000				
WCL 25B	85.00	3.346	90.00	3.543	228.60	9.000				
WCL 25G	85.73	3.375	89.76	3.534	179.39	7.063				
WCL 25C	85.73	3.375	90.47	3.562	228.60	9.000				

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PART NO	Inside Diameter		Outside Diameter		Length		Flange O/D		Flange Depth	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
WCL 25D	85.73	3.375	92.08	3.625	228.60	9.000				
WCL 26	86.00	3.386	91.00	3.583	228.60	9.000				
WCL 26A FL	86.50	3.406	90.07	3.546	158.40	6.236	91.92	3.619	4.80	0.189
WCL 27	87.00	3.425	90.55	3.565	177.80	7.000				
WCL 27B FL	87.00	3.425	91.36	3.597	177.80	7.000	94.36	3.715	4.83	0.190
WCL 27A	87.40	3.441	91.37	3.597	207.10	8.154				
WCL 28	87.50	3.445	89.85	3.537	187.33	7.375				
WCL 28B	87.50	3.445	92.06	3.624	172.01	6.772				
WCL 28C FL	88.00	3.465	92.00	3.622	163.50	6.437	93.00	3.661	5.00	0.197
WCL 28D FL	88.10	3.469	93.13	3.667	228.60	9.000	97.03	3.820	3.05	0.120
WCL 27C	88.86	3.499	93.71	3.689	141.73	5.580				
L 1203 FL	88.86	3.499	94.22	3.709	141.73	5.580	100.94	3.974	3.76	0.148
WCL 28A	88.90	3.500	92.46	3.640	203.20	8.000				
WCL 29A	88.90	3.500	95.25	3.750	228.60	9.000				
WCL 30 FL	88.90	3.500	96.87	3.814	191.36	7.534	101.02	3.977	3.81	0.150
WCL 32	88.90	3.500	97.66	3.845	228.60	9.000				
WCL 32B FL	89.00	3.504	96.90	3.815	166.00	6.535	100.96	3.975	3.80	0.149
WCL 32C FL	90.00	3.543	100.00	3.937	254.00	10.000	107.00	4.213	10.00	0.394
WCL 32A	90.47	3.562	94.50	3.720	191.36	7.534				
WCL 33	90.47	3.562	95.58	3.763	191.36	7.534				
WCL 33A	91.19	3.590	97.13	3.824	162.94	6.415				
WCL 34	92.00	3.622	95.63	3.765	175.26	6.900				
WCL 34B FL	92.00	3.622	95.63	3.765	175.26	6.900	100.50	3.957	6.40	0.252
WCL 34A	92.08	3.625	98.43	3.875	228.60	9.000				
WCL 34E FL	92.50	3.642	96.00	2.780	178.00	7.008	100.64	3.962	3.00	0.118
WCL 34G FL	92.50	3.642	96.92	3.816	191.10	7.524	101.00	3.976	3.80	0.150
WCL 34D FL	93.00	3.661	96.00	3.780	165.00	6.496	98.93	3.895	5.00	0.197
WCL 35	93.65	3.687	96.86	3.813	171.45	6.750				
WCL 35C FL	94.00	3.701	97.07	3.822	165.00	6.496	99.50	3.917	4.15	0.163
WCL 36	94.00	3.701	97.99	3.858	141.73	5.580				
WCL 36GFL	94.00	3.701	99.06	3.900	135.64	5.340	105.23	4.143	5.33	0.210
WCL 36A	95.00	3.740	99.00	2.898	228.60	9.000				
L 1204	95.25	3.750	99.29	3.909	269.88	10.625				
WCL 3000	95.25	3.750	100.09	3.941	215.90	8.500				
WCL 36E FL	95.50	3.760	99.30	3.909	212.00	8.346	102.35	4.030	3.38	0.133

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PART NO	Inside Diameter		Outside Diameter		Length		Flange O/D		Flange Depth	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
L 1305 FL	96.00	3.780	99.50	3.917	160.00	6.299	104.95	4.132	6.00	0.236
WCL 3600	96.50	3.799	100.41	3.953	223.50	8.799				
WCL 3601 FL	96.50	3.799	100.50	3.957	222.50	8.760	103.43	4.072	5.20	0.205
WCL 36C FL	97.00	3.819	103.10	4.059	215.00	8.465	105.93	4.170	4.53	0.178
WCL 36H FL	97.00	3.819	107.00	4.213	254.00	10.000	112.00	4.409	10.00	0.394
WCL 36B FL	98.48	3.877	103.26	4.065	228.98	9.015	106.45	4.191	3.86	0.152
WCL 743	98.48	3.877	103.26	4.065	228.98	9.015				
WCL 36D FL	98.48	3.877	104.20	4.103	226.44	8.915	107.37	4.227	3.81	0.150
WCL 37B	99.25	3.907	104.75	4.124	200.00	7.874				
WCL 37D	100.00	3.937	104.00	4.094	191.44	7.537				
L 1485	100.00	3.937	105.50	4.154	227.28	8.948	109.60	4.315	5.00	0.197
WCL 37	100.00	3.937	109.60	4.315	241.30	9.500				
WCL 38	101.60	4.000	104.85	4.128	215.90	8.500				
WCL 37C	101.60	4.000	106.40	4.189	260.00	10.236				
WCL 38C	101.60	4.000	107.95	4.250	298.45	11.750				
WCL 38B FL	103.17	4.062	108.05	4.254	216.15	8.510	111.05	4.372	4.76	0.187
WCL 38D FL	104.00	4.094	114.00	4.488	279.40	11.000	119.00	4.685	10.00	0.394
WCL 39 FL	104.20	4.102	109.00	4.291	240.00	9.449	117.06	4.609	8.08	0.318
WCL 39C FL	105.50	4.154	109.95	4.329	206.00	8.110	115.00	4.528	8.05	0.317
WCL 39A	106.68	4.200	110.78	4.361	209.55	8.250				
WCL 39B FL	107.69	4.240	111.33	4.383	239.57	9.432	112.70	4.437	4.36	0.171
WCL 40	107.95	4.250	112.80	4.441	298.07	11.735				
L 1633 FF	107.95	4.250	113.24	4.458	225.00	8.858	116.66	4.593	2.60	0.102
WCL 40E	111.76	4.400	114.40	4.504	205.60	8.094				
WCL 40B FL	111.76	4.400	117.48	4.625	241.30	9.500	120.65	4.750	6.35	0.250
WCL 40G FL	111.76	4.400	118.24	4.655	208.53	8.210	120.35	4.738	2.57	0.101
WCL 40F	114.30	4.500	120.73	4.753	250.83	9.875				
WCL 40A	115.89	4.563	119.63	4.710	237.99	9.370				
WCL 40H	118.50	4.665	124.57	4.904	248.92	9.800				
WCL 40C	120.65	4.750	125.48	4.940	298.20	11.740				
WCL 40D	120.65	4.750	126.24	4.970	298.20	11.740				
WCL 41 B FL/FF	125.00	4.921	129.96	5.117	259.16	10.203	134.00	5.276	3.00	0.118
WCL 41 FL/FF	127.00	5.000	133.38	5.251	288.93	11.375	138.81	5.465	7.66	0.302
WCL 41A FL/FF	127.00	5.000	133.88	5.271	288.93	11.375	139.07	5.475	7.65	0.301
WCL 42 FL	133.50	5.256	138.00	5.433	259.00	10.197	141.96	5.589	2.96	0.117

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Our premises are located within minutes of the M5 motorway.

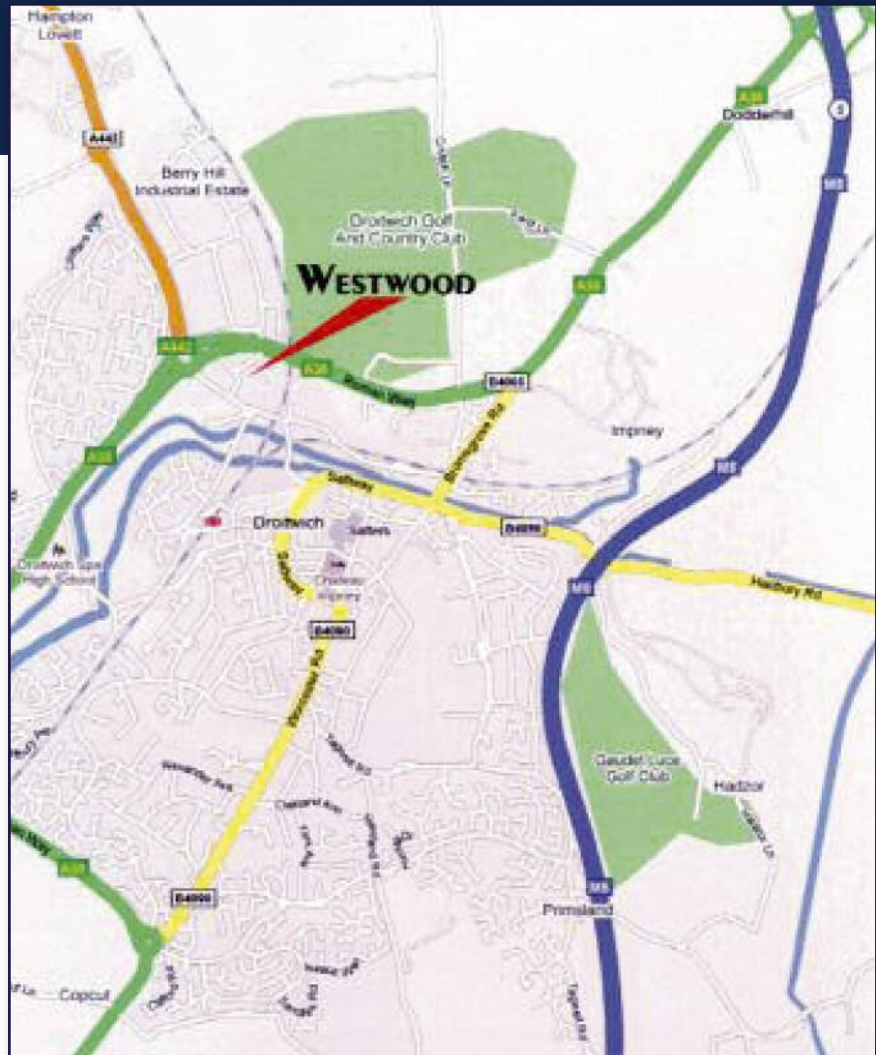
Directions

Leave the motorway at Junction 5 and follow the signs to Droitwich (A 38). Go straight on at traffic lights (just after the Chateau Impney hotel on left) onto a dual carriageway. At the first roundabout turn left (by Land Rover dealer) and then take the first left turning into George Baylis Road.

After 200 meters, turn right into George Baylis Court at the entrance to which you will see a sign saying Westwood Cylinder Liners. Proceed to the end and turn left in the court where you will see our premises straight ahead. There is parking outside.

Collection

Those wishing to collect their orders or deliver (and discuss) samples should telephone in advance so we can ensure that your order is ready for you or that the necessary personnel are available to discuss your requirements in detail.



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Delivery

Orders for ex-stock items are normally dispatched the same day by our carriers who provide a next day service to most UK destinations. Delivery dates for manufactured liners will be quoted at the time the order is placed.

For further copies of our drawing template please telephone or e mail us.

Alternatively visit our web site www.westwoodcylinderliners.co.uk where the pdf file can be downloaded and printed.

Please note this catalogue supersedes all previous issues. Whilst every care is taken in its production, Westwood Cylinder Liners cannot take responsibility for any errors or mistakes that may occur.

www.westwoodcylinderliners.co.uk

WESTWOOD

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