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Rarrier, M.V.   P.B.7   34   Plane   Jane   MM/823   46   Kathleen   S.Y.4   43   Plutonian Plate   MM/390   62   Kent, H.M.S.   MM/897   32   Plymouth R.N.L.B.   MM/418   9   Portuguese Dory   MM/563   40   MM/560   MM/590   19   Prinz Eugen   MM/700   32   Kingfin   MM/825   52   Queen Mary   MM/317   28   Kingfisher   MM/516   10   Querida   MM/640   26   Kubernetes   MM/914   48   Ramrod   MM/961   33   Kwik.Kwak   MM/449   29   Range Safety Launch   MM/910   33   Kwik.Kwak   MM/490   25   Rara Avis   MM/900   53   Lancet   MM/566   54   Raylight   MM/908   32   Leo   MM/516   46   Razorbill   MM/284   55   Lilo   MM/556   62   R/C Yachts   MM/727   56   Lindoh   MM/906   33   Red Herring   MM/663   50   Liverpool-type Lifeboat   MM/374   17   Remora   MM/511   MM/506   MM/506   10   Rocket Class Frigate   MM/503   56   Loreal   MM/506   10   Rocket Class Frigate   MM/400   9   MM/512   24   Rodney, H.M.S.   MM/901   32   Roqual   MM/918   32   MM/506   10   Rocket Class Frigate   MM/400   9   MM/512   24   Rodney, H.M.S.   MM/603   27   Lowestoft Drifter-Trawler   MM/504   48   Royal Daffodil   MM/664   20   Maria, S.S.   MM/964   38   Royal Daffodil   MM/664   20   Maria, S.S.   MM/964   38   Royal Daffodil   MM/664   20   Maria, S.S.   MM/964   38   Royal Daffodil   MM/303/314   9   Maria, S.S.   MM/964   38   Royal Daffodil   MM/781   26   Maria, S.S.   MM/964   48   Royal Daffodil   MM/685   51   Royal Paleon   MM/781   26   Maria, S.S.   MM/964   48   Royal Daffodil   MM/685   51   Royal Paleon   MM/781   26   Maria, S.S.   MM/964   48   Royal Daffodil   MM/685   51   Royal Paleon   MM/781   26   Maria, S.S.   MM/969   38   Royal Daffodil   MM/685   51   MM/684   48   Royal Daffodil   MM/685   51   MM/686   51   Royal Paleon   MM/781   52   Marylower   MM/444   43   Saida   MM/695   51   MM/644   44   Saida   MM/695   51   MM/644   44   Saida   MM/	Javelin M.L.	P.B.17	34	Pip	MM/316	22
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Jersey, H.M.S.	MM/586	22	Pirana	MM/620	11
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Karrier, M.V.	P.B.7	34	Plane Jane	MM/823	46
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Kathleen	S.Y.4	43	Plutonian Plate	MINI/390	02
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Kent, H.M.S.	MM/891	54	Portuguese Dory	MM/563	40
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	King George V HMS	MM/590	19	Prinz Eugen	MM/700	32
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Kingfin	MM/825	52	Queen Mary	MM/317	28
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Kingfisher	MM/516	10	Querida	MM/640	26
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/700   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Kubernetes	MM/914	48	Ramrod	MM/961	33
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Kwik-Kwak	MM/449	29	Para Avis	MM/900	53
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Langet Langet	MM/266	54	Raylight	MM/908	32
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Leo	MM/511	46	Razorbill	MM/284	55
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Lilo	MM/755	62	R/C Yachts	MM/727	56
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Lindoh	MM/906	33	Red Herring	MM/663	50
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Liverpool-type Lifeboat	MM/374	17	Remora	MM812	29
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Lorelei	MM/201	20	River Cruiser Dubarry	MM/154	9
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Lorette	MM/370	19	River Tug	MM/451	16
Lowestoft Drifter-Trawler   MM/282   15   Rorqual   MM/918   32   MM/1002   54   Roundelay   MM/957   46   Magga Dan   MM/456   18   Royal Daffodil   MM/664   20   Manta   MM/551   51   Royal Falcon P.S.   MM/381   17   March Hare   MM/564   54   Royal Yacht Britannia   MM/303/314   9   Maria, S.S.   MM/949   33   Run-a-boat   MM/706   33   Maria, S.S.   MM/949   33   Runabout   MM/480   25   Mary Dear   S.Y.1   43   R2   Whalecatcher   MM/781   26   Mayflower   MM/444   43   Saida   MM/295   51   Mayflower   MM/444   44   Saida   MM/295   51   MM/444   44   Mayflower   MM/444   44   Saida   MM/295   51   Mayflower   MM/444   44   Mayflower   MM/444   Mayflower   MM/444	Lorosa	MM/506	10	Rocket Class Frigate	MM/400	9
May	Lorraine	MM/512	24	Rodney, H.M.S.	MM/603	27
Mad Hatter         MM/1002         54         Rounderlay         MM/95/MM/95/MM/95/MM/95         46           Magga Dan         MM/456         18         Royal Daffodil         MM/664         20           Manta         MM/551         51         Royal Falcon P.S.         MM/381         17           March Hare         MM/964         54         Royal Yacht Britannia         MM/303/314         9           Mare III         MM/504         48         Run-a-boat         MM/706         33           Maria, S.S.         MM/949         33         Runabout         MM/480         25           Mary Dear         S.Y. 1         43         R2 Whalecatcher         MM/781         26           Mayflower         MM/444         43         Saida         MM/781         26           Mediterranean         Galley         S.Y. 40         44         Sailing Galleon         MM/641         42           Menang         MM/235         36         Sardine         MM/466         40           Mermaid, M.Y.         P.B.8         34         Saxon         MM/485         9           Mis'Deeds         MM/483         19         Scharnhorst         MM/839         50           Mistral	Lowestoft Drifter-Trawler	MM/282	15	Rorqual	MM/918	32
Manta         MM/551         51         Royal Falcon P.S.         MM/381         17           March Hare         MM/551         51         Royal Falcon P.S.         MM/303/314         9           Maree III         MM/504         48         Run-a-boat         MM/706         33           Maria, S.S.         MM/949         33         Runabout         MM/781         26           Mary Dear         S.Y.1         43         R2 Whalecatcher         MM/781         26           Mayflower         MM/444         43         Saida         MM/295         51           Mediterranean Galley         MM/235         36         Sand Fairy Ann         MM/466         40           Merlin         MM/106         51         Sardine         MM/485         9           Mermaid, M.Y.         P.B.8         34         Saxon         MM/485         9           Mis Deeds         MM/483         19         Scharnhorst         MM/839         50           Mistral         MM/348         17         Scharnhorst         MM/930         33           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Moonglow         MM/800         28	Mad Hatter	MM/1002	54	Royal Daffodil	MM/664	20
March Hare         MM/964         54         Royal Yacht Britannia         MM/303/314         9           Maree III         MM/964         48         Run-a-boat         MM/706         33           Maria, S.S.         MM/949         33         Runabout         MM/480         25           Mary Dear         S.Y.1         43         R2 Whalecatcher         MM/781         26           Mayflower         MM/444         43         Saida         MM/295         51           Mediterranean Galley         MM/235         36         Sand Fairy Ann         MM/664         40           Merlin         MM/106         51         Sardine         MM/485         9           Mermaid, M.Y.         P.B.8         34         Saxon         MM/485         9           Mis Deeds         MM/483         19         Scharnhorst         MM/839         50           Mistral         MM/348         17         Scharnhorst         MM/930         33           Moby Dick         MM/380         75         Scottish Coast M.S.         MM/752         23           Moonglow         MM/800         48         Scoudabout         MM/339         26           Moonmist         MM/610         16	Manta Manta	MM/551	51	Royal Falcon P.S.	MM/381	17
Maree III         MM/504         48         Run-a-boat         MM/706         33           Maria, S.S.         MM/949         33         Runabout         MM/480         25           Mary Dear         S.Y.1         43         R2 Whalecatcher         MM/81         26           Mayflower         MM/444         43         Saida         MM/295         51           Mediterranean Galley         S.Y.40         44         Sailing Galleon         MM/664         42           Menang         MM/235         36         Sand Fairy Ann         MM/666         40           Merlin         MM/106         51         Sardine         MM/485         9           Mermaid, M.Y.         P.B.8         34         Saxon         MM/485         9           Mis'Deeds         MM/483         19         Scharnhorst         MM/839         50           Mis'Deeds         MM/483         19         Scharnhorst         MM/930         33           Mistral         MM/348         17         Scharnhorst         MM/930         33           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Moonglow         MM/800         28	March Hare	MM/964	54	Royal Yacht Britannia M	AM/303/314	9
Maria, S.S.         MM/949         33         Runabout         MM/480         25           Mary Dear         S.Y.1         43         R2 Whalecatcher         MM/281         26           Mayflower         MM/444         Saida         MM/295         51           Mediterranean Galley         S.Y.40         44         Sailing Galleon         MM/641         42           Menang         MM/235         36         Sand Fairy Ann         MM/466         40           Merlin         MM/106         51         Sardine         MM/485         9           Mermaid, M.Y.         P.B.8         34         Saxon         MM/485         9           Misge         S.Y.10         55         Scarab         MM/839         50           Mis'Deeds         MM/483         19         Scharnhorst         MM/839         50           Mistral         MM/348         17         Scharnhorst         MM/930         33           Mithras         MM/481         48         Scooter         MM/435         37           Mooncat         MM/1006         49         Scudabout         MM/535         29           Moonmist         MM/610         16         Sea Falcon         MM/632 <td>Maree III</td> <td>MM/504</td> <td>48</td> <td>Run-a-boat</td> <td>MM/706</td> <td>33</td>	Maree III	MM/504	48	Run-a-boat	MM/706	33
Mary Dear         S.Y.1         43         R2 Whalecatcher         MM//81         26           Mayflower         MM/444         43         Saida         MM/295         51           Mediterranean Galley         S.Y.40         44         Sailing Galleon         MM/641         42           Menang         MM/106         51         Sardine         MM/466         40           Merlin         MM/106         51         Sardine         MM/485         9           Mermaid, M.Y.         P.B.8         34         Saxon         MM/485         9           Midge         S.Y.10         55         Scarab         MM/839         50           Mis'Deeds         MM/483         19         Scharnhorst         MM/839         50           Mistral         MM/348         17         Scharnhorst         MM/930         33           Mibras         MM/408         53         Scooter         MM/435         37           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Moonglow         MM/800         28         Scudabout         MM/535         29           Moonglow         MM/610         16         Sea Falcon	Maria, S.S.	MM/949	33	Runabout		25
Mayllower   Min/444	Mary Dear	S.Y.1	43	K2 Whalecatcher	MM//81	20
Menang         MM/235         36         Sand Fairy Ann         MM/466         40           Merlin         MM/106         51         Sardine         MM/485         9           Mermaid, M.Y.         P.B.8         34         Saxon         MM/482         47           Midge         S.Y.10         55         Scarab         MM/839         50           Mis'Deeds         MM/483         19         Scharnhorst         MM/572         13           Mistral         MM/348         17         Scharnhorst         MM/930         33           Mithras         MM/408         53         Scooter         MM/930         33           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Monocat         MM/1006         49         Scudabout         MM/335         29           Moonmist         MM/610         16         Sea Falcon         MM/632         20           Moonshine         MM/606         47         Sea Foal         MM/339         26           Moorcock         P.B.25a         29         Sea Hawk         MM/481         42	Mayllower Mediterranean Galley	MM/444	43	Sailing Galleon	MM/641	42
Merlin         MM/106         51         Sardine         MM/485         9           Mermaid, M.Y.         P.B.8         34         Saxon         MM/482         47           Midge         S.Y.10         55         Scarab         MM/839         50           Mis'Deeds         MM/483         19         Scharnhorst         MM/572         13           Mistral         MM/348         17         Scharnhorst         MM/930         33           Mithras         MM/408         53         Scooter         MM/435         37           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Monocat         MM/1006         49         Scudabout         MM/535         29           Moonglow         MM/800         28         Scudder         MM/311         35           Moonmist         MM/610         16         Sea Falcon         MM/632         20           Moonshine         MM/606         47         Sea Foal         MM/339         26           Moorcock         P.B.25a         29         Sea Hawk         MM/481         42	Menang Menang	MM/235	36	Sand Fairy Ann	MM/466	40
Mermaid, M.Y.         P.B.8         34         Saxon         MM/452         47           Midge         S.Y.10         55         Scarab         MM/839         50           Mis'Deeds         MM/483         19         Scharnhorst         MM/572         13           Mistral         MM/348         17         Scharnhorst         MM/930         33           Mithras         MM/408         53         Scooter         MM/435         37           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Monocat         MM/1006         49         Scudabout         MM/535         29           Moonglow         MM/800         28         Scudder         MM/311         35           Moonmist         MM/610         16         Sea Falcon         MM/632         20           Moonshine         MM/606         47         Sea Foal         MM/339         26           Moorcock         P.B.25a         29         Sea Hawk         MM/481         42	Merlin	MM/106	51		MM/485	9
Midge         S.Y.10         55         Scarab         MM/839         50           Mis'Deeds         MM/483         19         Scharnhorst         MM/572         13           Mistral         MM/348         17         Scharnhorst         MM/930         33           Mithras         MM/408         53         Scooter         MM/435         37           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Monocat         MM/1006         49         Scudabout         MM/535         29           Moonglow         MM/800         28         Scudder         MM/311         35           Moonmist         MM/610         16         Sea Falcon         MM/632         20           Moorcock         P.B.25a         29         Sea Hawk         MM/481         42	Mermaid, M.Y.	P.B.8	34	Saxon	MM/452	
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Mithras         MM/408         53         Scooter         MM/435         37           Moby Dick         MM/817         48         Scottish Coast M.S.         MM/752         23           Monocat         MM/1006         49         Scudabout         MM/535         29           Moonmist         MM/610         16         Sea Falcon         MM/632         20           Moonshine         MM/606         47         Sea Foal         MM/339         26           Moorcock         P.B.25a         29         Sea Hawk         MM/481         42	Mis Deeds Mistral	MM/483	17	Scharnhorst	MM/930	33
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#### Adhesives for Marine Models

By R. H. Warring

The "classic" model makers' adhesive—balsa cement (or, strictly speaking a cellulose cement)—is not really a suitable glue for marine model joints, except for all balsa construction. Although a strong adhesive, with the advantage of being quick drying and gap filling, it is wateresistant rather than fully waterproof. Its main limitation is that used for glued joints on harder woods (and particularly ply), such joints can fall and open up after a period of immersion in water, even though the hull is apparently fully protected with a paint finish. This can be particularly disturbing in the case of a hard chine ply skinned hull, and even more serious in the case of bread-and-butter laminations bonded with a balsa cement.

They take appreciably longer to set and, for the user who is not familiar with them, may appear of dubious value at first because of the absence of 'stickiness' when the joint is initally completed. Nevertheless, properly applied, synthetic resin adhesives of this type produce a joint which is stronger than the material being bonded. If a glued-up joint is subsequently broken the material rather than the glue line will fail first, unless the joint is definitely faulty. The latter could be caused by improper proportions of resin to hardener, improper mixing of these two constituents, dry areas, lack of clamping pressure, insufficient setting time or too low a temperature.

formaldehyde resins are the standard for full size construction of amateur (kit) and professional (ply skinned) craft they are still not completely waterproof. They are more than adequate for most purposes, however. Where maximum durability is required then a cold-setting resorcinol resin adhesive would normally be chosen for professional (full size) boat building; tenacious adhesion to most other materials. It is not a superior adhesive as regards bonding to wood, however and so, as well as being more expensive, offers no advantage over a urea resin for this purpose. Because of its inherent 'stickiness', however, it is a logical choice for applying a sheathing of glass fibre to any wooden assembly.

after a period of immersion in water, even though the hull is apparently fully protected with a paint finish. This can be particularly disturbing in the case of a hard chine ply skinned hull, and even more serious in the case of bread-and-butter laminations bonded with a balsa cement.

Modern synthetic resins of the ureaformaldehyde type are usually recommended for glued joints in hardwood and ply. these being readily available as cold setting adhesives suitable for amateur use. They are also formulated so as not to require high contact pressures to complete

They are also formulated so as not to require high contact pressures to complete their properties and any limitations they a satisfactory joint, which means that they are 'gap filling' to a certain extent. They are 'gap filling' to a certain extent are in the same class as the ureas as More attention must, however, be given to regards water resistance and joint proper-clamping up such joints than is usually the case with balsa cement. however, and we do not know of any adhesive of this type produced for amateur adhesive of this type produced for amateur work in this country. The other chief 'wood gluing' synthetic resin is casein which makes a good general purpose glue for carpentry but is not durable and loses appreciable joint strength when wet. It is not suitable for boat construction, model or full size.

PVA adhesives, whilst excellent for "dry" woodworking joints are equally not a suitable type for marine use.

Polyster resins (as used for glass fibre

definitely faulty. The latter could be caused by improper proportions of resin to hardener, improper mixing of these two constituents, dry areas, lack of clamping pressure, insufficient setting time or too low a temperature.

In spite of the fact that these ureaformaldehyde resins are the standard for full size construction of amateur (kit) and the superior adhesive as regards.

Classification	Glue Type	Gap Filling	Durabili	ty	S	ultabilit	y
Weatherproof Adhesives	Phenolics	No	Exceller		Require tures pressure for amate Used for ply in	s. Not	suitable struction g marin
berotrus ( Ibnaelu gatur erasu Apallel gatur erasu Apallel gatur erasu letif kan bolbon er	Resorcinols	Yes	Exceller	nt	Cold availab	setting ole man urabilit	types
Moisture Resistant	Urea Resins Melamines	Yes (with fillers)	V. goo mould proof V. goo mould	d	mos	etting b st amat nstructi adhesi woods	on
	Casein	Yes (with fillers)	Good, but appreciable strength wet. Not tant to m	loses	No	t suita	ble
rd symbolism offi realist or mixed has realism or mixed	Cellulose	Yes	Fair to g	good	All ba	lsa asse only	mblies
Water Soluble	Animal and regetable	No	Joints f	y if	No	t suita	ble
	glues, Polyvinyl		wet or da	מנונו			
CASCAM	Polyvinyl	niere bes	wet or da	mn	STATE OF		(Royan)
TEMPERATURE CLAMPING TIM *POT LIFE—ho (Recommended joints) * Made up with	Polyvinyl  ITE  ME—hours	ions—2 par	 stressing of	50°F. 18 9	5-6 3	70°F. 2½-3 1-1½ weight)	40 min
TEMPERATURE CLAMPING TIM *POT LIFE—ho (Recommended joints) * Made up with	Polyvinyl  ITE  ME—hours before relief of of water in proport water (by vonot recommende	ions—2 par	 stressing of	50°F. 18 9	5-6 3	2½-3 1-1‡ weight)	40 min
TEMPERATURE CLAMPING TIM *POT LIFE—ho (Recommended joints) * Made up with powder; 1 p CASCAMITE is  AEROLI TEMPERATURE SHUFFLING TI APPROX. SETT For Medium Se For Fast Setting	Polyvinyl  ITE  ME—hours before relief of of water in proport water (by vonot recommende	ions—2 par blume). d for use	stressing of rts powder; 1 print air tempera	50°F. 18 9 part watures 1 50°F. 60-7( 2-3 no to one	5-6 3 ater (by below 50 60°F. 0 40 1 one half	21-3 1-11 weight) oF. 70oF. 20	1½ 40 min . 3½ par
TEMPERATURE CLAMPING TIM *POT LIFE—ho (Recommended joints) * Made up with powder; 1 p CASCAMITE is  AEROLI TEMPERATURE SHUFFLING TI APPROX. SETT For Medium Se For Fast Setting	Polyvinyl  ITE  ME—hours before relief of owater in proport art water (by vonot recommende)  TE  ME—minutes TING TIME—houting Hardener GBQ, recommended for	ions—2 par blume). d for use	stressing of rts powder; 1 print air tempera	50°F. 18 9 part watures 1 50°F. 60-7( 2-3 no to one	5-6 3 ater (by below 50 60°F. 0 40 1 one half	21-3 1-11 weight) oF. 70oF. 20	14 40 min . 34 par 80°F.
TEMPERATURE CLAMPING TIM *POT LIFE—ho (Recommended joints) * Made up with powder; 1 p CASCAMITE is  AEROLI' TEMPERATURE SHUFFLING TI APPROX. SETI For Medium Se For Fast Setting Aerolite Is Not	Polyvinyl  ITE  ME—hours before relief of outer in proport eart water (by vonot recommende)  TE  ME—minutes TING TIME—houting Hardener GBQ, recommended for the proportion of the proportion	ions—2 par blume). d for use	stressing of rts powder; 1 print air tempera	50°F. 18 9 part watures 1 50°F. 60-7( 2-3 no to one	5-6 3 ater (by below 50 60°F. 0 40 one half e quarter 50°F.	21-3 1-11 weight) oF. 70oF. 20	80°F.
TEMPERATURE CLAMPING TIM *POT LIFE—ho (Recommended joints) * Made up with powder; 1 p CASCAMITE is  AEROLI' TEMPERATURE SHUFFLING TI APPROX. SETI For Medium Se For Fast Setting Aerolite Is Not  CASCOP TEMPERATURE POT LIFE—hou MAXIMUM ON	Polyvinyl  ITE  ME—hours  ME before relief of or the commende of the commende	ions—2 par olume). d for use i  irs BP.X redu X reduce or use in a	stressing of rts powder; 1 print air temperature shuffling time a temperature	50°F. 18 9 part watures tures to 50°F. 60–7(2–3) me to to one below	5-6 3 ater (by below 50 60°F. 40 1 one half quarter 50°F.	24-3 1-14 weight) oF. 70oF. 20 ½	40 min . 3½ par

The epoxy resin adhesives offer outstanding glue line strength and bond between two non-porous surfaces. They can be used to glue almost any two surfaces to-gether which are dry and grease free. They cannot be better than a good urea resin for jointing wood since this type gives full joint strength as already mentioned (the wood fails before the glue joint). Their extra cost is, therefore, not

(e.g. bonding motor bearers in place). They are, however, a most useful type of adhesive to use for special bonding problems—such as gluing metal or plastic. fittings in place to wood or glass fibre that the powder should always be mixed decks, gluing small metal parts and fittings

together, and so on. The choice of a standard ureaformaldehyde resin for all 'hardwood' joints—e.g. attaching ply skins, bread-and-butter assemblies, etc.—should be entirely satisfactory, provided the adhesive is used as specified, joints are properly clamped up, and the ambient temperature is above the minimum required for setting (see Tables 2, 3 and 4). In the case of ply skinned hard chine hulls adequate clamping pressure can be given by pinning the panels in place. Steel pins are satisfactory for permanent fastenings on models, although brass pins are better practice. Screws (brass for preference) are better fasteners for highly stressed areas. Stressed joints, such as motors bearers installation, should

such as motors bearers installation, should never rely on glue alone but should be reinforced by permanent fastenings, e.g. by screwing through the hull skin. Tightening up these fasteners then provides the necessary clamping pressure for the joint. Some builders prefer to use a cellulose adhesive for gluing up the framework—e.g. gluing chine stringers, etc. into the notches on the frames and bulkheads. This appears quite satisfactory, with the ply skin panels finally attached with a synthetic resin adhesive. There is no reason thetic resin adhesive. There is no reason why the same synthetic resin adhesive should not be used throughout, however. The same applies to the gluing up of secondary structures. The synethetic resin adhesive will provide the more durable joint, unless the wood involved is balsa.

Balsa cement is, generally, a suitable adhesive for gluing up a balsa bread-and-butter assembly. but a synthetic resin adhesive is better. It is usually more fluid than balsa cement and when clamped up, is more readily squeezed over and into the whole joint surface area to provide a consistent joint line. It is essential that ever much the area is cleaned up.

justified for general hull assemblies alenough clamping pressure be applied to though occasionally specified (usually on close all the joint lines tightly, but not so American plans) for 'high strength' areas tight as to squeeze out most of the adhesive.

An important point to note when using powdered resin adhesives (e.g. powdered resin or powdered 'one-shot' mixtures) is up with the specified proportion of water, measured out and not guessed. Powdered resin should be allowed to stand after mixing with water so that air bubbles can clear before the hardener is added. As first mixed the liquid resin will appear 'milky'. After standing it should turn quite clear.

The hardener employed is invariably of the acid type, which means that it will be liable to react chemically to most metals. That is one reason why steel fasteners should not be used. Also glue mixtures should be made up in a glass jar (e.g. a jam jar) rather than metal containers and, if applied by brush, the metal ferrule of the brush kept out of the mixture. Actually mild 'contamination' of the adhesive by contact with metal does not seem to affect the properties of the glue but it can cause staining of the wood. This applies particularly to two-part mixtures where the hardener is applied separately to one surface. 'Contaminated' hardener can result in bad stain marks on the wood. It is usually recommended that the hardener be applied with a soft cloth pad wound round a stick and tied with thread or a rubber band not bound on with wire.

Finally, good as they are, modern synthetic resin adhesives will not bond satisfactorily to surfaces which are dirty, greasy, oily—or wet. If skin panels have to be wetted to curve to shape, therefore, they should be clamped in place and allowed to dry first, then removed, glued up and replaced under the necessary clamping pressure. Cleanliness is seldom a problem with model construction, using new stock material. Attempting to glue parts to a used, oily hult interior, how-ever, is another problem. It is unlikely that a satisfactory glued loint can be obtained under such circumstances, how-

#### Star Plan Grading

In order to help you in your choice of plan, a grading system is employed to give some idea of the degree of complication or ease of construction. At the bottom of each caption will be found one, two, three, or four stars, with the following meanings:

and explanation for the complete beginner; also suitable for anyone requiring an easily-built model.

- \* \* Slightly more advanced, for the average modeller or beginners with some modelling experience in other fields.
- \* \* \* For modellers of some experience, or those who have built one or two similar models or are prepared to read up constructional technique.
- \* \* \* \* For the expert able to interpret \* A simple design with sufficient detail drawings (e.g., 3-view drawings) and deused for designs where workshop equipment is called for.

SARDINE

All-metal (tinplate) submarine of very simple construction for .5 to 1.5 c.c. diesels. Overall length 48 in., automatic resurfacing, etc., using schnorkel tube when submerged. MM/485

CUMBRIA By G. H. Deason 19 in. model of old-time paddle tug built with gum strip paper hull, card paddles, etc., electric-powered, very strong and MM/468

H.M.S. COSSACK By Vic Smeed 38 in. model of the famous Tribal class destroyer of the 'Altmark' incident. Detailed plan, simple construction in balsa and ply, or hardwood if preferred. For electric power, large enough for small radio control equipment. MM/500

ROCKET CLASS FRIGATE Simplified scale model of a well-known

type of anti-submarine warship, using all balsa construction. For any small electric motor, 24 in. L.O.A.. MM/400

R.N.L.B. PLYMOUTH By Vic Smeed Barnett-Stromness type lifeboat, modelled at 1 in.-1 ft. (39 in. 1.o.a., 11 in. beam) for advanced builders. Bread-and-butter construction, large amount of detail. Authentic drawings on two large sheets. \* \* \* \*

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ROYAL YACHT "BRITANNIA"

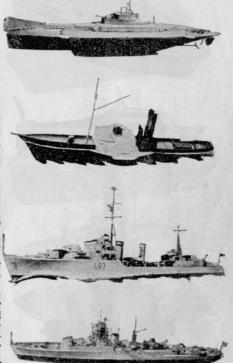
Detailed working model, complete with

ship's boats, etc., for electric or steam propulsion. Six-page instruction leaflet with 17 sketches and four photos. Available in two sizes. (See also page 34)

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Steam version, L.O.A. 461 in., on two sheets, 50 x 39 in. and 39 x 25 in. MM/314 15/-













TOD BOAT
A 16 in. miniature of balsa and ply construction, based on the Tod Tuna. Powered by any small or medium electric motor. MM/561

INGFISHER

By Vic Smeed
22 in. model specially designed for maxi-KINGFISHER mum strength with all balsa structure. For .5 to 1.5 c.c. diesels, can be used for MM/516

A scale two-berth cabin cruiser which, although only 24 in. in length, is large but nevertheless attractive. For 1 to 1½ c.c. motors, all-ply construction.

\*\* 6/Scale model (½ in.—1 ft.) of a tug built in 1960, 24½ in. length, 6½ in. beam. Lines drawing of hull, superstructure outlines.

For electric drive.

MM/634

P.S. DUCHESS OF FIFE
An accurate scale 54 in. paddle steamer for either metal or timber hull construction, and suitable for radio control. All details for articulated paddles, etc., on

drawing. Electric drive.

TARPON
A really lovely Italian-designed cabin cruiser, 35 in. in length, for electric or up to 2½ c.c. motors. Planked construction, fully detailed plan. Excellent for radio.

MM/494
15/-

By Vic Smeed PILOT II A distinctive small pilot launch, \(\frac{1}{2}\) in.—

1 ft., length 24 ins., scaled from a Universal Shipyards aluminium hull. Largely balsa construction, planked round bilge hull, electric power, suitable for small R/C. MM/645





PIRANA
A 28 in. express cruiser for medium/
large electric motors or up to 5 c.c.
Advanced hull form with convexed sections for very fast R/C performance, simplified hull also detailed for easier construction. 10 in. beam, roomy for radio, one-piece superstructure. MM/620 7/6

BRAVE BORDERER
A 36in. (\$in-1ft.) model of Vosper's fastest patrol boat, for diesel or electric power. A single rudder and screw arrangement is shown on the plan together with a triple arrangement for those who prefer absolute authenticity. MM/609 10/-

ANNM

Largest merchant ship model in Plans Service, this modern motor coaster has a particularly clean deck and is a most practical prototype for a working model. Length 57½ in. MM/708 15/-

M.Y. PATRICIA

An attractive model of all balsa construction, gives an excellent performance with any medium sized electric motor. Suitable for R/C. L.O.A. 21 in. Beam 4 in.

CARVELLE MINOR

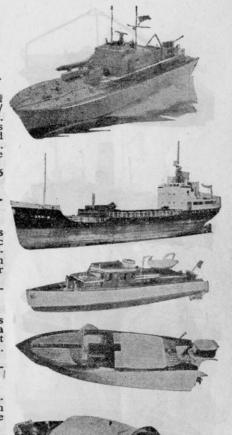
A 14 in. modern-style outboard speedboat for use with electric outboard motors. Balsa construction, attractive appearance and performance.

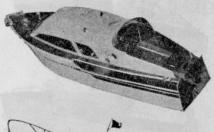
SWEETSIXTEEN

Smart little cabin cruiser, 16 in. in length and 51 in. beam, capable of accommodating simple transistorised R/C. Allbalsa construction, small to medium electric motors. MM/713

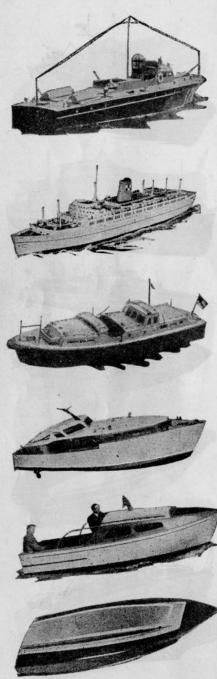
FAIREY HUNTSMAN

A 1½ in.—1 ft. model of one of the bestknown fast sea-going small cruisers, 42 in. in length for up to 15 c.c. engines. Hull form is steeply V'd monohedron. Ply construction. MM/680 12/6











H.M.S. BITTERN A 1/20 in. scale warship using gum paper strip construction for the hull and a balsa or obechi superstructure. Powered by any small electric motor, costs little more than 10/- to build including motor. Length

14½ in. MM/587 3/6

THORNYCROFT A.S.R.L.

311 in., half-inch to the foot. Revolving gun-turret. Cabin, control room and twin dinghies installed. Suitable for any form of power. MM/104 10/-

R.M.S. EMPRESS OF BRITAIN

By Vic Smeed An authentic 1/200 scale model of the Canadian Pacific liner which made its maiden voyage in 1956. B. and b. hull, 38½ in. l.o.a., for builders with a little previous experience. MM/445 8/6

ADMIRAL'S BARGE L.O.A. 331 in. Beam 91 in. A scale Naval Pinnace built specially for radio-control for 2-2½ c.c.

MM/242

\* \* \* 10/-

TINTAGEL
Simply-built lightweight motor yacht, 24
in in length, for electric power or up to
2 c.c. engines. Either balsa or ply construction, depending on power. MM/556

PARKER BELL FOURTEEN SIX

A large-scale model, 2 in.-1 ft., of a popular runabout launch. With a 12 in. beam and 28 in. length and very roomy cabin, this model is ideal for R/C with electric or 1.5 c.c. drive. MM/326

FLATSO

An efficient 30 watt "flattie" of functional appearance. Construction is straightforward using a single-piece ply bottom. MM/795



BOSTON ARROW Modern trawler model 361 in. length, 5/16 in.—1 ft. scale. Bread-and-butter construction, accurate detail. Outlines and body plan only, for experienced modellers. MM/666 \* \* \* \* \* 8/6

SCHARNHORST
A simple 30 in. all-balsa model of the famous German battle-cruiser. Powered by Kako 4 or similar electric motor. Suitable for radio control. MM/572

ADMIRAL GRAF SPEE A 24 in. model of the notorious German pocket battleship with a beam of 21 in. All balsa construction. Simple construction for rubber or electric drive. Same scale, shown with 'Scharnhorst'. MM/613 4/6

CERVIA By Vic Smeed A well-known Thames tug in 1 in. scale, giving 28 in. hull with 62 in. beam. For electric or steam drive, excellent for R/C. With instruction book. Not for beginners. MM/567

THEODOR HEUSS

An unusual 1/25th scale German rescue boat with round bilge hull and after flooding well carrying a smaller power boat.

Parent length 36½ in. For electric propulsion. A fascinating R/C project.

MM/568

\*\*\*\*

15/-

VOSPER PL4 By Vic Smeed An attractive scale model of sleek lines suitable for 3½ c.c. or over. Ply and hard-wood construction. Length 46 in., beam 9½ in. MM/560 11/6

TELECTRA
Semi-scale 30 in. police or customs launch of remarkable strength and high performance. Adequate room for R/C. All balsa construction, up to 3.5 c.c. diesels.
MM/417 \*\* 7/6

CABLE-SHIP MERCURY
An attractive 35 in. scale model cable-

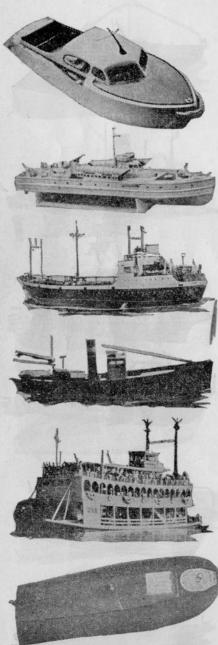
layer for one or two small electric motors. Balsa "bread and butter" construction. MM/782













SPERANZA
Scale model 1 in. to 1 ft. of a fast small motor yacht. Length 38½ in., beam 12½ in. A most attractive model for diagonal plank construction, engines of 2½ to 10 c.c.

MM/550

\*\* \*\*

10/-

COLUMBINE

A simple 26½ in. cabin launch for up to 1½ c.c. diesels or electric drive, employing mostly balsa construction, but with some ply parts. MM/520

THORNYCROFT M.T.B.

Vic Smeed An extremely popular model, this ½ in.1 ft. (36½ in.) scale M.T.B. is absolutely authentic and fully detailed. For electric or 1-3.5 c.c. motors; R/C can easily be fitted. Ideal for exhibitions or regattas. MM/337

M.V. PATEKE

Scale shelter-deck type cargo vessel for more experienced builders. Length 50 in., beam 7 in. (‡ in. scale). Hull lines, etc., and superstructure outlines on one sheet. MM/424

FREE LANCE TRAWLER
LO.A. 27 in. Beam 6 in. Attractive scale type model electric powered and intended for radio control or free sailing. Simple construction. MM/252

ST. LOUIS BELLE By Vic Smeed By popular request, a 33 in. scale model of a Mississippi stern-wheeler, though not based on any particular prototype. Suitable for a working or static model; for builders of some experience. MM/826

ANDREA II

A highly successful lightweight R/C 30 watt electric boat of Yugoslavian design. Construction is of ply and balsa and the overall length is 20 ins. MM/816

SILVER MIST By Vic Smeed A 21 in. round bilge motor vessel of most attractive shape for electric propulsion, and suitable for miniature radio.

Balsa planked hull with ply decks, etc.

MM/524

\* \* 3/6 FAIRMILE TYPE "C" M.L.
By Vic Smeed

A ½ in—l ft. scale model of a wartime "little ship", length 55 in., beam 8½ in. Good performance with 2½-3½ c.c. engines or a combination of two or three electric motors. Plan includes simplified method of construction and a true scale body plan for those who require complete authen-MM/585 (Not illustrated) \* \* \*

WATER BUG By Vic Smeed The smallest boat in our range, this 13 in. model is an excellent performer with an Ever Ready TG18 or similar small motor. Very simple, all-balsa construction and neat appearance. MM/357 \* Now 2/-

S.T.S. DILYSIA By Vic Smeed 37 in. model of modern 18,000-ton tanker to 1/150 scale. Bread-and-butter bow and stern with planked midships; for electric power. MM/470

BARDIC FERRY By Vic Smeed A 42½ in. (‡ in.—1 ft.) model of a North Sea vehicle ferry launched in 1957. Attrac-tive lines, plenty of detail work. Bread-and-butter hull base, composite topsides, straightforward for those with previous experience. Electric propulsion.

MM/636

\* \* 12/6

LOWESTOFT

DRIFTER-TRAWLER
30 in. L.O.A. scale model of this attractive double-purpose craft for those who desire authentic finish to their working models. For electric motor and battery propulsion. MM/282 7/6

VOSPER R.T.T.L. By Vic Smeed 1 in. scale model of the 68 ft. Vosper Rescue and Target Towing Launch, length 34 in., beam 91 in., for 11 to 31 c.c. diesels, or electric drive. Suitable for radio. Ply construction, authentic full-size detail. MM/530

















SIROCCO

Handsome 39 in. cabin cruiser for 2½—8 c.c. engines or large electric motors. Straightforward ply construction, modern styling. Excellent for radio control.

MM/704 \* \* 7/6

H.M.S. DIAMOND By Philip Connolly
This attractive warship model fills the need for a scale, working model of this type capable of carrying the extra weight of multi-channel radio control gear. Length of Diamond is 49 ins. and power is electric. A straightforward model but not one for the beginner. Two large sheets of plans, completely detailed.

MM/763 \*\* \* \* 15/-

M.V. STEYNING

A delightful 23 in. near scale model collier of balsa and ply construction. A fairly simple model although some previous experience is necessary. For electric power only.

MM/601 \*\*\* 5/6

SLALOME

A 30 ins. freelance missile launcher with an intriguing new slant on construction and a hull form ideal for steering events. Quite straightforward to build, the model takes motors from 1½-3½ c.c.

MM/718

\* 7/6

MOONMIST

An extremely attractive, 21 in. cruiser which can be built from only four sheets of balsa. An ideal beginners' model; plan includes sketches of construction and all full-size parts separately drawn. Can be built for less than 15/- complete. Suitable for small and medium sized electric motors, will take miniature R/C.

MM/610

\* 3/6

M. F. V. EILEEN

A fine 28 ins. model of a motor fishing
"keelboat" vessel. Plan includes detailed
building instructions and elaborate deck
detail drawings. Not originally built as a
working model, Eileen can, however, be
powered by medium sized electric motors.
MM/737

\* \* 8/6

RIVERTUG
A 12½ in. scale model Dutch river tug, beam 3½ in., for any small electric motor. Simple planked construction in balsa.

MM/451

\* \* 2/6



VOSPER ROYAL BARGE

By Vic Smeed 30 in. (\frac{1}{2}in. to 1 ft.) model of the barge carried on "Britannia" and used on many Royal occasions. A superb, colourful model, authentic and fully detailed, for the craftsman. Electric or 1 c.c. drive, with or without radio

MM/356 \*\* \*\* 9/-

DEGLET NOUR

One-tenth scale replica of full-size Cabin Cruiser prepared from designer's drawings and the actual full-size craft. Leugth O.A. 36 in. Suitable for radio control with either i.c. or electric power. On four sheets, including alternative "economy" building method.

MM/231 \*\*\* 15/-

BRITISH POWER BOAT A.S.R.L. 31½ in., half-inch to the foot version of the popular A.S.R.L. Rakish pleasing lines, clear swept decks. One of the best for radio-control installation owing to absence of "bitty" detail. For any form of power. MM/102 \*\* 10/-

MISTRAL

All-balsa electric semi-scale model of a typical 30-36 ft. day cruiser, with forward cabin and open well. Total cost of materials approximately 5/-, excluding motor and shaft. Length 18 in., any 4½-9 v. motor.

MM/348

\* 3/6

P.S. ROYAL FALCON By Vic Smeed A simplified 24 in. model based on the famous Thames estuary pleasure boats, employing paddles belt-driven from a small electric motor. Very easy and inexpensive construction.

MM/381 \*\* \* 4/-

LIVERPOOL TYPE LIFEBOAT
By Vic Smeed

A \frac{1}{2}-1 ft. model of a well-known type of lifeboat in current use. A model for experienced builders. 26\frac{1}{2} in. L.O.A. for electric power.

MM/374

\* \* \* \* 6/-















BLAZER
Large tug model for steam or electric capable of taking heavy radio gear. Total displacement 23 lb., length 42½ in., breadand-butter construction; for builders with a little experience.

MM/487

\* \* \* 10/-

CYGNET
Electric-powered model of steam yacht.
29\frac{1}{4} in. length using planked construction
with \frac{1}{4} in obechi frames and 1/16 in obechi
planking.

MM/478

\* \* 5/6

H.M.S. WOLVERTON

A remarkably fine fully detailed freelance cruiser, 5 feet length overall.

Designed for electric power, and with full
radio-control circuits and diagrams for
operation of steering gear, complete with
deck fittings, funnels, superstructure, guns,
etc. On two sheets, size 78 x 35 in. and
76 x 35 in.

MM/286 \*\* \* \* \* 15/-

PATHFINDER

Authentic 4 in. scale (45 in.) model of Trinity House pilot tender of simple construction. Two sheet plans include all details. For electric or steam drive with or without radio.

MM/393

\*\* 15/-

MAGGADAN

A in. to the foot (30 in.) scale model of a famous prototype used for polar transport, etc., a model incorporating much detail, just large enough for R/C if desired. Electric motors only.

MM/456

By Vic Smeed

By Vic Smeed

Rocal Park

By Vic Smeed

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BUSTLER

An 18 in. model of a harbour tug, very close to scale but extremely simple and inexpensive to build. All-balsa construction any 3-6 v. electric motor. Full detailed plan, with colour scheme, etc. A most popular model.

MM/363

\* 3/6

TYPE IX U-BOAT
A scale U-boat for twin electric motors or equivalent, with or without radio control. L.O.A. 45 in.; balsa or obechi breadand-butter construction.





OLAN

By Arthur O. Pollard Jr.

Thames waterman's launch, 1 in. scale
21 in. length, featuring double chine hull
(may be simplified to single chine as indicated on plan). Suitable for smaller
diesels (up to 1 c.c.) or electric power.

MM/662

\* \* \* \* 5/-

MIS'DEEDS By Vic Smeed Thames holiday cruiser to 1 in scale, 121 ins. length. Includes notes on clinker building or flush planking. Any small electric motor; has even been built as a cigarette box!

MM/483

3/6

LORELEI By Vic Smeed Simple cabin cruiser for 1-3.5 c.c. diesels or electric propulsion by ace model aircraft designer, L.O.A. 34 in. Beam 71 in. Of obechi and ply construction, suitable for novices.

MM/267 \* 7/6

VOSPER A.S.R.L.
36 in., half-inch to the foot version of the 72 ft. prototype. Of light construction, may be used with rubber drive, giving a speed of about 4 knots. Fully detailed decking.

MM/101 \*\* 10/-

TORNADO
Attractive little semi-scale patrol launch,
15 in. in length, for Tornado or other
small motor. Balsa construction, cheap to
build and operate.

MM/422 \*\* \* 3/6

LORETTE
Roomy semi-scale two-berth cruiser, 34 in. L.O.A., suitable for R/C and electric, steam, or 1-3.5 diesel drive. Simplified lines for easy building, well within the scope of a beginner.

MM/370

\* 7/6

H.M.S. KING GEORGE V
This 37 in. model (1/20 in.) battleship makes an exteremely interesting project for the slightly more advanced modeller. Powered by any medium sized electric motor. Suitable for R/C.

MM/590 \*\* 7/6



















ELEKTRA A 21 in. O.A. length Cabin Cruiser of ply construction, using a Bassett-Lowke electric motor, and run off batteries. Simple to build but "big" looks. Could also be powered by 1 c.c. or smaller diesel. MM/269

GRAF ZEPPELIN

34½ in. near-scale model of Germany's only aircraft carrier. Scale is 25 ft.-1 in. and hull is slightly simplified in shape without affecting appearance afloat. Balsa construction, electric power. MM/676

S.S. PAINTED LADY By Vic Smeed Intriguing 36 in. raised quarter-deck coaster built of gummed paper strip over a simple balsa frame. For electric drive and up to 6 lb. of radio gear. Can be built conventionally if preferred.

ROYALDAFFODIL

One of the best-known Mersey ferries, now named St. Hilary, at 1/72 scale, 26 in. l.o.a. A model for the detail lover; outlines and body plan only. MM/664

RANGE SAFETY LAUNCH

By Vic Smeed 1 in.-1 ft. scale model of latest Thorny-croft R.A.F. launch, length 43 in., beam 12½ in. Suitable for 2.5 c.c. diesels upwards, excellent for radio control. Completely detailed on two large sheets. MM/412

FLYING FISH

20 in. runabout, designed primarily for out-board motors, but suitable for small inboard diesels. Cabin and open cockpit versions shown, plus all installation details. MM/412

SEA FALCON

All-balsa 18 in. cabin cruiser using allcommercial fittings etc. and any of a wide range of electric motors. Suitable for miniaturised radio. MM/632





STEPLESS HYDROPLANE
24 in. hull length. A freelance design
based on the type of hydroplane popular
in the Lake District. It is of easy construction, having no step, and broad in beam. For Mills 1.3 c.c. or similar engine. MM/150

U.S.S. NEWPORT NEWS

64 in. model of an American heavy cruiser. The original was of all metal construction, but can equally well be built in wood; for steam or electric drive with or without R/C. MM/382 13/6

Clever automatic steering launch, simple all-ply construction, 27 in. L.O.A. For .75-2.5 engine or electric drive, with steering mechanism details. MM/362 5/-

CULLAMIX- in. SCALE TUG

By Bernard Reeve, M.S.N.R. L.O.A. 39½ in. Beam 10 in. Depth 9¾ in. A superb model based on one of the Cement Tug fleet and authentic in every detail. Suitable for radio-control and steam, or larger i.c. engines, etc. Built on "bread-and-butter" principle. MM/256

M.V. ARRAN

By Vic Smeed
31 in. electric powered model of British Railways Clyde ferry in 4 mm. scale, i.e., can be built for 00 layouts. Balsa/ply construction, authentic detail. MM/415

AUDREY VII

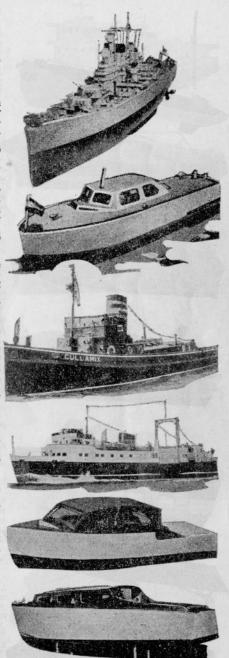
Simple all balsa cabin cruiser, 14 in. in length, for any miniature electric motor. MM/423

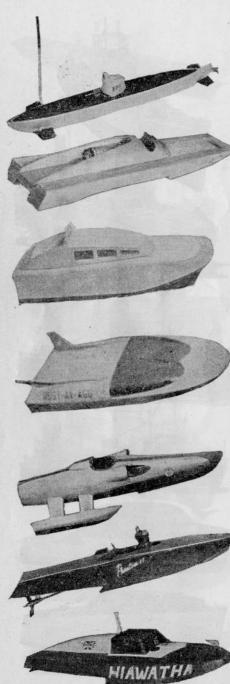
CHIQUITA

24 in. hull length. Smart looking hard chine cabin cruiser, suitable for a beginner to tackle. No complications. Suitable for operation by electric motor, petrol or diesel engine. MM/156 6/-

RACING HYDROPLANE

By J. Benson Modern high-speed craft based on designer's famous 30 c.c. boat 'Orthon' (illustrated). For 5 c.c. or 10 c.c. engines, tethered operation only. MM/440





SPRAT
One sheet of ½ in. balsa and a short length of 1 in. square builds this simple high-speed miniature submarine, which uses a Mabuchi/Orbit 205 or similar small electric motor. Length 15 in., automatic diving.

MM/624

By Vic Smeed
By Vic Smeed
Short Smeed
Short Sho

PIP By A. F. Palmer Simple all-balsa hydroplane for 100, 200, or Jetmaster. Tunnelled hull to reduce step suction, etc. Very fast and easy to build. \* 2/6

BUOY CAT

A very successful catamaran design by a well-known R/C speed and steering enthusiast. Model is of pleasing lines and gives very good turn of speed when powered by a 5 c.c. motor. Length 251 ins. beam 10 § ins., simple construction.

MUSTAVAGO
By Ross Baker
This slick looking model is straightfor ward to build and is reasonably convertional in construction. Power is 1½ c.c.—5 c.c. motors and Taplin Baker Hydrojet and performance has been described as "very thrilling". Length 24 ins. Also suits conventional 1½-2½ c.c. drive.
MM/760

\*\*\*\* 6/-

CRUSADER
Scale model of John Cobb's ill-fated contender for world speed records, for Jelmaster 150. Simple all balsa construction.

MM/426

\*\*
3/-

PHANTOM 11
Overall length 214 in.; Beam 74 in.
A delightful miniature racing hydroplane
for 5 c.c. engines. Designed by Norwegian
expert, who enjoyed wide contest success.
MM/183

\* \* 7/6

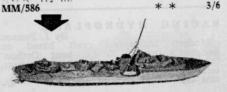
HIAWATHA

36 in. hydroplane for radio-control, employing two 2 c.c. motors synchronised and driving twin screws. Simple ply and balsa construction. On one sheet. Single engine can be used.

MM/289

\* \* \* 6/6

A.M.S. JERSEY
A 1/20 in. scale model warship, using gum paper strip construction for the hull and balsa or obechi for the superstructure. Any small electric motor; can be built for little more than 10/- including motor.





HOBO

A simple 24 in. model of a typical small tramp steamer built either in balsa laminations or on the gummed paper system. An attractive little model suitable for beginners. Any small electric motor.

MM/465

By Vic Smeed

The smear small electric in the small electric motor.

MM/465

CONAKRY
Unusual 21 in. all balsa model of a pushtug used on the African coast. Plan includes step by step assembly sketches for this quite out-of-the-rut design.

MM/651

\*\*\*
5/-

M. S. SCOTTISH COAST

28 ins, semi-scale model of a crosschannel ferry featuring "bread-and-butter"
construction. Suitable for radio control,
the prototype uses a Mighty Midget for
propulsion and R.E.P. radio gear. A
pleasing performer.

MM/732 \*\* \* \* \* 5/-

H.M.S. DEVONSHIRE
Simple construction and a wealth of added deck detail makes this 321 ins. model of a modern guided missile ship ideal for beginners and experts alike. Features flush planked hull from balsa twin screws, etc.

\*\* 6/6

CYNETTE
An elegant 35 ins. motor yacht based on the 52 ft. 6 ins. Fleur-de-Lys class boat built by Dagless Ltd. Plan includes complete superstructure detail and step-by-step diagrams. Suitable for R/C. Suitable power: 1½-2½ c.e. diesel or electric.

MM/762

\*\* \*\* 10/-

ARIEL

A fine scale sailing model of one of the most famous of the China Tea Clippers, 55 ins. 1-0-a, 46 ins. hull length. Plan consists of two sheets and includes lines, deck and rigging details, etc. Definitely not a beginners' project but an interesting evercise in sail for the experienced man.

MM/746

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By F. W. Bovd

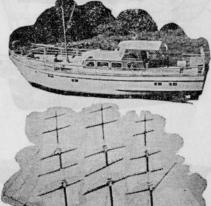
A fine scale sailing model of one of the chippers, 55 ins. 1-0-a, 46 ins. hull length. Plan consists of two sheets and includes lines, deck and rigging details, etc. Definitely not a beginners' project but an interesting evercise in sail for the experienced man.

MM/746













JAVELIN'' CLASS DESTROYER By Edward Bowness Length 70 in., beam 8 in., draught 3 in., masthead 19 in. above waterline. Two sheets. 10/-PB/13



CHRIS-CRAFT COMMANDER

24 in. scale model of an attractive cabin cruiser, for electric or up to .75 diesel power. Easy construction using balsa and

ply. MM/318

DARK CLASS MTB

A detailed model of a fast post-war ML, suitable for 1½-2½ c.c. motors. Detail drawn in outline only—suitable only for experienced modellers. Length 31 in. MM/564



WALTONTHAMES A.S.R.L.
321 in., half-inch to the foot model of
65 ft. Walton Thames A.S.R.L. Spacious cabin accommodation For diesels of up to 5 c.c. or other motive power. 10/-MM/103

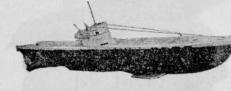
By Max Coote SIRIUS STAR Based on a full-size prototype but given a hard-chine hull, this 411 in. boat is for 3.5-15 c.c. motors, with speed control details, etc. 11/-MM/332



A novel rubber-powered submarine with automatic diving gear. Overall length 28 in. Simple construction and very detailed drawing.



VIVACITY By Vic Smeed Largest power boat in plans range, 54 in. length and 17 in. beam, suitable for up to 35 c.c. engines or very large electric motors. A nice-handling model for R/C steering competitions etc. Straightforward construction. 12/6 MM/652





Not illustrated H.M.S. ASHANTI By D. Coleman 45 in. model of modern Tribal class A/A and A/S frigate for more experienced

10/-

builders. Two sheets. MM/797

By Vic Smeed ANTARES Portuguese patrol boat, 28 in. in length, for up to 2½ cc. or electric, using all sawn parts in ply. Attractive modern lines. MM/822

LORRAINE By Vic Smeed A really elegant 54 in. motor yacht with 12 in. beam, suitable for electric or large i/c propulsion, and excellent for radio. Ingenious construction giving choice of methods and either hard chine or rounded hull, fully explained on plan. MM/512

VELETA By Vic Smeed Simple 24 in. all-balsa motor yacht suitable for radio control. Builds into an extremely attractive model. Novel construction with sheet sides and laminated bottom to give round bilge hull. For medium-size electric motors. MMI/575

CLEOPATRA

An unusual semi-scale stern-wheel paddler, as used on the Nile or in the Yukon, for electric drive. Simple, all-balsa construction, belt-drive paddle. A good performer, but restricted to calm weather. L.O.A. 27 in., Beam 7 in. MM/319

RUNABOUT

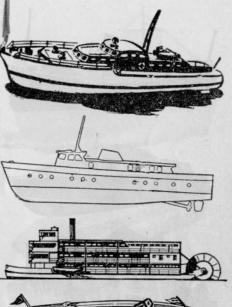
18 in. sporty speedboat based on a Chris-Craft design. Ideal for towing small-scale water-skiers. Just large enough for miniature R/C. Ply construction. MM/480

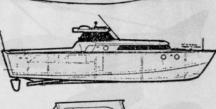
EGRET By Philip Connolly This attractive, modern cruiser is a model of an Italian prototype. Length is 221 ins. and the model features one piece removable superstructure and deck well. Construction follows conventional practice and power is electric or small diesel. Suitable for small R/C. MM/744

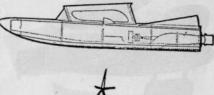
By Vic Smeed SPURTSTER Unusual 27 in. model designed round the Taplin Baker Hydrojet unit with 11-5 c.c. engines. Simple all-ply construction, excel-lent performance with this novel form of propulsion. MM/695

TUNA

34 in. freelance patrol boat designed originally for glassfibre hull, but with full hull details for wooden hull shown on plan. For 1-3.5 c.c. engines, excellent for radio control. 8/6 MM/505













STEAM PINNACE
Naval pinnace, 24 in. length, for small steam units or electric propulsion. Carved

or bread and butter hull construction. An unusual model of an almost defunct type of boat. MM/699



An attractive model, basically a scaled-up 'Scudabout' which gives an extremely nippy performance on 11 c.c. engines. Length is 29 in., construction straight-forward, excellent for radio.

R 2 WHALECATCHER

By R. A. Sweet

Although highly detailed, this extremely attractive model is of a very simple and rugged construction. Prototype power was specified by a Kaka Super O 2 electric supplied by a Kako Super Q 2 electric motor. Length 24 ins., beam 31 ins.

SEA FOAL Baby hydroplane for up to 1.5 c.c. motors, capable of very high speeds. Sponson type design, all ply construction strictly for tethered running only. \* \*

MM/339 21 c.c. HYDROPLANE Three-point suspension and ultra-simple construction are features of this fast R.T.P. model.

MM/301 By Vic Smeed ALTEREGO Scale model of the 41L world speed record holder, for up to 1.5 c.c. engines on tether, or suitable for free running with smaller motors. Simple ply/balsa construc-MM/377

By Vic Smeed OUERIDA A fast 40 in. competition model for 21-15 c.c. motors. Simple but handsome lines. one-piece detachable superstructure. MM/640





The famous battle-cruiser to a scale of /16 in.—1 ft., giving a length of 54 in. and displacement of 14½ lbs. Bread-and-butter hull construction, ply etc. superstructure. For electric power. MM/672 10/-

By Vic Smeed E. BOAT Scale & in.-1 ft., length 35 in. beam 51 in., this model is of a German S-boat as used in W.W.II. Round bilge hull, simple construction, balsa can be used. For electric propulsion or up to 11 c.c.

CHIRPY

Electric outboard model, 18 in. in length, all balsa construction, designed for radio control with commercial German actuator. Very simple structure, can be free run. MM/626

A DRIAN M By Arthur O. Pollard Jr. Modern coastal motor tanker in. scale. length 27 ins., beam 4 in. Hull shown as lines drawing, superstructure and deck detail in outline. For electric power.

H.M.S. RODNEY

A 35½ in. (1/20 m.-1 ft.) model of effective lines suitable for R/C. Although balsa and ply construction makes this model comparatively simple, some previous experience is desirable. Powered by any medium sized electric motors. MM/603 7/6

FAIRACRE II By Philip Connolly Thames luxury cabin cruiser, 30 in. in length ply or balsa construction, for 1-12 c c. diesel or electric drive. Light construction, suitable for R/C. Hull shape is similar to Vosper Royal Barge.

SMACK/YACHT "KINGFISHER"

By L. S. Humphries A pleasing sailing model of the designer's own boat. Plan for this 24 ins. o.a. model is well detailed and includes full constructional diagrams. MM/751

BISMARCK

Model of one of Germany's most famous warships, 55½ ins. in length (1/175 scale) drawn in outline only (with hull crosssections) and suited only to builders of experience. MM/644

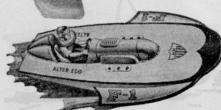


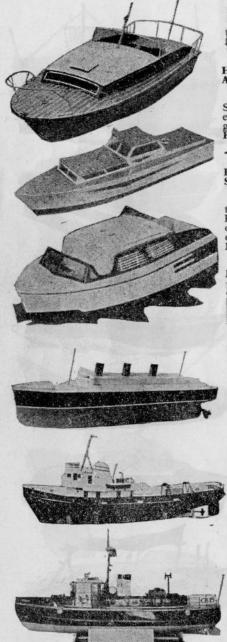


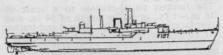












H.M.S. GRENVILLE Anti-submarine Frigate

By Norman M. Peters Length 45 in., beam 41 in., depth 3 in. Scale 1 in-1 ft. Hull lines, side and plan elevation, and superstructure details are given. Two sheets. PB/23

#### FAIREY MARINE SWORDSMAN

By Philip Connolly A 33 in. model of an elegant and up-to-the-minute prototype. For either electric or R.C. propulsion, this model performs well on motors up to 10 c.c. and makes an excellent R.C. project.

By Vic Smeed MOONGLOW The ideal beginner's boat, MOONGLOW can be built in a couple of evenings. Power by electric or 11 to 31 c.c. diesel or glow. R/C can be fitted.

TING RAY By Philip Connolly An attractive semi-scale cabin cruiser STING RAY with forward cockpit designed for 21 c.c. and radio. Simple construction with onepiece ply bottom. MM/784

QUEEN MARY

By C. R. and M. Moore Semi-scale model, 22; in. L.O.A. employ-ing rubber drive. Normal cruise 200 yds. in 31 mins. Simple construction and fun to operate. MM/317

IKWERRE A 30 in. 9 lb. model of a Thornycroft tug built for service in Nigeria. Construction is of balsa on the "bread and butter" principle. For electric propulsion. Suitable for R/C. 7/6 MM/802

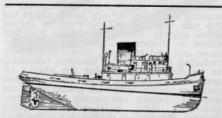
BADGER A big, 47 in. Customs launch model for R/C or free running. Original was powered by a Taplin Twin and the hull was built in obechi on the "bread and butter" system. MM/796

Not illustrated

SCUDABOUT

A really nifty miniature fast cabin cruiser, only 16½ in. in length, for up to 8 c.c. diesel power or electric motors. Ply construction, room for radio control. MM/535 3/6

LORENA By Vic Smeed A 42 in. small motor yacht for either hard chine or round bilge construction offering six or seven methods of building, all explained on plan. For electric or up to 10 c.c. engines. MM/526



M.T. MOORCOCK By Oliver Smith Overall length 28 in., beam 7 in., depth 33 in., scale 1 in.-1 ft Sheet 1 General arrangement, side and plan

elevation 2 Frame and water lines. 3 Stern frame and rudder, anchor housing ard beam joints, bulwarks, stanchions and general arrangement of position.

M.T. MOORCOCK

PB/25

Alternative sheets to scale 1 in.-1 ft. Sheet 1 Frame lines. 2 Water lines. (For general arrangement, side and plan elevations, and other details see PB/25, Sheets 1 and 3). PB/25a

REMORA By Vic Smeed Vic Smeed's latest speed steering design for up to 3½ c.c. engines. Conventional construction is used on this 30 in. boat.
MM/812 \* \* 7/6

KWIK-KWAK By G. H. Deason Rubber-driven hydroplane, 8 in. length. of simplest construction; two can be built from a 6d. packet of suitable balsa offcuts. Fast and amusing. MM/449 2/6

M.S. VELARDE By R. A. Sweet An attractive and accurate 42 in. working scale model. Construction is of balsa and gummed strip and the model is designed for electric propulsion. The plan includes constructional sketches etc. MM/830 10/-

TRYON (not illustrated)
An easily built airscrew-driven hydrofoil of balsa construction with dural or aluminium foils, can be powered by air-cooled engines of .5 to .8 c.c's. MM/811

Cross Channel Packet DUNKIRK" By A. D. Trollope Length 52 in., beam 10 in., draught 5 in., masthead 20 in. above waterline, scale % in.-1 ft. Two sheets half-size. PB/14

PB/20 ST. NINIAN\* Short Sea Passage Steamer. By Edward Bowness. Length 57.1 in.; beam 9.2 in.; draught in.; displacement approx. 31 lb. Scale

1/5 in.=1 ft. Sheet 1 Profile and deck plan 2 Hull construction 3 Propeller shaft, centre piece, midships' bulwark, coverplate bow and stern, bulwarks 1½ and 8, under after-deck, fore deck aft, section, support for aft propeller bearing

4 Deck construction details 5 Deck construction details 6 Deck construction details (The complete set 25/-)







### Hull Construction

and sometimes additional stringers are added as stiffeners. The planking is then fitted to these strips. The planking is frequently sheets of ply, etc., which cover the whole side or half the bottom in one piece; sometimes diagonal planking is available at most timber varies and model. piece; sometimes diagonal planking is available at most timber yards and model shops. Sugar pine, yellow pine, mahogany, and red cedar are also excellent timbers for this job, though more difficult to latter case, double diagonal planking is frequently specified; this means that a second skin of narrow strips is laid over the first, sloping at 45 deg. in the opposite direction. At the bow, a block or blocks may be called for, to simplify construction by obviating that part of the skinning which would need a very sharp change in angle. The transom, or stern end, is usually a flat plate built in as a bulkhead. Skinning is carried out with the hull upside down, and on completion the hull is strong enough to be removed from the jig (if an external one is used) and the shadows (if latter case, double diagonal planking is obtain. frequently specified; this means that a Plank

BOAT HULLS are divided into two primary categories which refer to their actual cross-sections. The first and simplest of the two is the hard chine hull, where definite "corners" exist between the sides and bottom panels; in such a boat the sides and bottom panels are virtually flat for all or most of the length, although varying in angle throughout. The round bilge hull, on the other hand, curves gently from gunwale to keel, with no suggestion in means, apart from the difficulty of obtaining good quality material in sufficiently large sizes, and as a result "bread-and-butter" building is employed. In this system the "bread" is the timber and the "butter" the glue used to bond the planks together. It has the advantage of being less wasteful and of rendering hollowing much are first divided off on the plan into slices of the thickness of the planks available, and bilge hull, on the other hand, curves gently from gunwale to keel, with no suggestion of a "corner", and calls for rather different constructional methods.

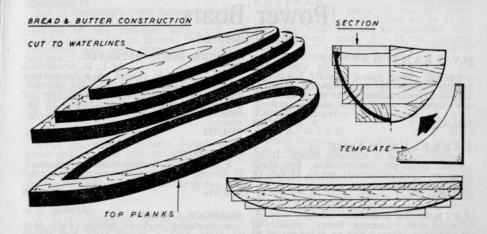
HARD CHINE HULLS

This type of hull is most often built on permanent frames or bulkheads which remain part of the finished hull. Occasionally, however, "shadows" are used, removable after completion, especially where light weight is desirable. The frames or shadows are shaped and fitted to a jig which, in power boats especially, may be the actual keel. Longitudinal strips are then affixed to form the inwale and chine, and sometimes additional stringers are added as stiffeners. The planking is then fitted to these strips. The planking is then affixed to these strips.

and on completion the hull is strong enough to be removed from the jig (if an external one is used) and the shadows (if any) knocked out. Interior details and deck, etc., are then added.

Most modelling materials lend themselves to this type of hull, and balsa, obeche, spruce, or birch are often used. The most frequent material specified, however, especially for skinning, is resinbonded plywood, which is easily available in all sizes from 1/32 in. thickness upward. Planking is carried out, usually starting ROUND BILGE HULLS

The simplest form of construction for hulls of this type is to carve the whole unit from the solid, using a timber such as pear, holly, lime, yellow pine, or obeche. This is an expensive and wasteful planking, is carried out, usually starting with the garboard strakes (next to the keel). After completion and sanding of the planking, the jig is removed and the shadows or other building aids knocked out before adding the internal timbers, etc. With permanent frames little internal timbering is necessary of course.



ply, 4 in. for shadows,  $\frac{1}{16}$  in. for ribs, plan, allowing for planking thickness, etc., etc., and mahogany sheet for planking, up and set up on a jig in the manner to 1 in. thick Cedar and some pines are described above. also suitable for planking.

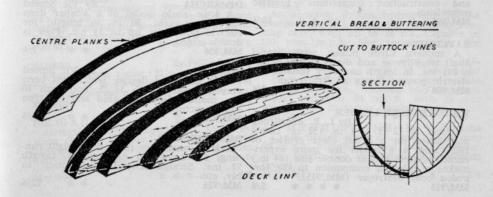
information given The shadows can be average capabilities.

Materials for such a hull are normally drawn directly on to the ply from the

The best glues to use in boat-building are the gap-filling resin glues such as Cascamite "One-shot", Aerolite 306, Beetle, etc.

The fin is normally solid, and bolted in place after the completion of the planking. Use of Lines

Some of the advanced 'Model Maker' yacht plans consist of lines only, but there is no difficulty in building a hull from the information given. The shadows can be advanced to any beginner of the plans giving lines only are primarily intended for boat-builders with a little experience who are interested in top performance craft, but a study of an existing one of these plans will render construction given. The shadows can be adverted to any beginner of the planking.



#### Power Boats

Not Illustrated

M.V. FRANK RAYNER

By Vic Smeed sion. An unusual but attractive subject. length, bread and butter construction 5/6 MM/432 \* \*

CARVELLE MAJOR

Larger version of Carvelle Minor, 21 in. OHM MAID length, balsa/ply construction, for glow- A 32 in. open runabout model, immenselarger electric units. MM/702

PRINZ EUGEN

Well-known German heavy cruiser of World War II modelled to a length of 44 to scale, with a garvey style hull which is strip planked. For electric power or only, for builders with previous experience MM/706 \* \* \* \* \* 6/6 MM/799 \* \* \* 6/-

BLACK MARAUDER By Philip Connolly SKI BOAT A 381 in. free-lance M.T.B. based loosely on the Brave class but with a wider hull 31 c.c. engines. Length 30 in., ply and for 2½-15 c.c. engines or high power electrics; a very good high speed design \* \*

By David Coleman H.M.S. KENT Delightful 1 in. scale early cruiser, ram bow, three vertical funnels etc. Length 572 ins., for electric power, etc. A connoisseur's model. Detailed drawing with MM/819 constructional sketches, etc. MM/897

in length, attractive in appearance and performance. Hull lines and superstruc- MM/835 ture outlines, with explanatory sketches and construction suggestions. Electric DIMARCHA propulsion. MM/899

RAYLIGHT

A modern Clyde puffer, with funnel abaft wheelhouse and diesel drive. Model is 244 ins. in length and very suitable for electric power. Plenty of R/C room. \* \* \* \*

T.B.D. CRUISER LEADER

By L. R. Armstrong Drawn at 12 ft. - 1 in. (32 in. 1.o.a.) and based on a Scout class cruiser of BEACHCOMBER 1905, this is a model for more experipedoe boat destroyer (MM/915). MM/913

TORPEDO BOAT DESTROYER

by L. R. Armstrong Typical canal motor vessel, 31 in. in length, beam 3½ in. Drawing includes standard Trent barge, up to three of which are normally towed. For electric propulation of the modern destroyer of which it was the forerunner. 33 in. shown. 7/6 MM/915

plug or diesel outboards up to 1½ c.c. or ly strong, for up to 3½ c.c. engines. All larger electric units. 6/6 MM/814

HARBOUR LAUNCH

A freelance harbour launch, very near

A functional fast radio model for up to more suited to model speeds. Suitable hardwood construction. Rakish appearance

> By Vic Smeed SUZIE 0 A semi-scale offshore power boat racer, which can be electrically powered or fitted with up to 3½ c.c. motors. Has been run with 5 c.c. with success. Length 27 5/6

SEA SLED

An unusual but efficient 28 in. model A superb modern tug model, 36 in. hull merging into one. Very fast and clean running. 5/6

> By Vic Smeed A 1 in. scale model of a Vosper deep sea motor yacht, 30 in. in length, for electric power or up to 3½ c.c. Plan is double sided. 7/6 MM/836

By Vic Smeed ROROUAL A 32 in. speed design, which has been very successful with 3½, 5, and even 10 c.c. motors. Unusual cabin and fin type superstructure. MM/918

A large model for radio or straight runenced builders and at double size (64 in.) ning, for up to 35 c.c. engines. Length makes a splendid companion to the tor- 52 ins. Straightforward construction in ply, etc. 5/6 MM/926

drawing of the full-size ship, and no but has also proved an excellent R/C model construction is shown, though hull steering boat with 8 - 1½ cc. motors. waterlines and body plan are included. \* \* \* \*

MY SUSANNE

A modern transom sterned inshore fishing trawler with a planked hull. Length 22½ in. Can be built throughout in balsa. \* \* \*

PERSEUT

A 28 in. model, loosely based on a game fishing type and employing a glass fibre hull, though details for wood construction are included on the plan. Up to 3½ c.c. engines. MM/947

S.S. MARIA
A 26 in. designed based on a tramp steamer of the 1920's. Of simple construction and designed for use with a Mamod or similar steam engine. Can also be electrically powered. Balsa/ply construc-MM/949

H.M.S. INVINCIBLE

A 45 in. x 5½ in. interpretation of the
Invincible class battle cruisers which were Invincible class battle cruisers which were smart superstructure, 301 in. length for never completed. A very handsome model. 14-8 cc. engines or electric. Ply construc-

BLUE STREAK Winner of the 1967 5 c.c. class European Championships, and a superb performer with engines from 21 to 5 c.c. Simple and quick construction. Conventional flattie appearance. MM/956

DENNY TYPE STEAM GUNBOAT

A 36 in. model of the round bilge wood gunboats which were ultimately built in steel. "Grey Goose" was of this type initially. Hull external detail and lines only given. MM/946

U.S.S. NAUTILUS

The first nuclear-powered submarine, 300 ft. 1.o.a. and 28 ft. beam, launched in 1954. Scale drawings of the full-size vessel to a length of 36 in. No model construction details. MM/433

By Philip Connolly Elegant express cruiser, 31in., for high power electric or up to 10 c.c. motors. For those who want high performance with semi-scale appearance. \* \* \* 8/6 MM/961

Attractive Clyde diesel tug to ½ in. A2 HYDROPLANE By V. Moucha scale (length 27½ ins.) with Kort nozzle Czech design for 5 cc capable of scale (length 27½ ins.) with Kort nozzle and modern low profile. Drawing includes hull lines and all superstructure in outline; no structural detail MM/999

SCHARNHORST

One of Germany's most famous warships drawn to 46 in. length, this is simply a mational FI-V2.5 class. Takes up to 24 cc. Simple ply construction, also available 12/6 commercially in glass fibre.

MM/1000 By J. W. Thompson BUCKTAIL Based on a Molinari racer, this is a 30½ x 16 in. semi-catamaran design for up to 5 cc. Ply construction, excellent performance.

MM/1003 SEASPRITE By P. Mays Open launch, 28 in., for 11 cc. or electric. Simple ply construction, room for

MM/1007 By J. Pottinger SKYLIGHT A characteristic old-style Clyde puffer, 26 in. l.o.a., with details for bread and butter hull. Superstructure outline only. A very popular modelling subject. MM/1009

BRODICK By J. Pottinger Small (20 in.) model of a Fleet Tender based on the Clyde. Unusual double-chine hull, brief constructional suggestions on plan. MM/1012

TOP CAT G.T. By R. P. Reynolds Flat-V design with full-depth hull and

MM/1013 By Philip Connolly HAMMERHEAD By Vic Smeed Unusual-looking 36 in. model (15 in. beam) with wide flared bow. Designed for offshore power boat racing with up to 15 cc. but a good all-round boat.

7/6 Moderate V hull, alternative superstructure suggested on drawing, ply construction, glass fibre hull available. MM/1015

> HYDRO GULL An international A.2 class hydroplane for tethered running with 5 c.c. motors. Suggested construction included, but not recommended to a complete beginner. MM/952 \* \* \* \*

SIRALY

An airscrew driven hydroplane to the international B.1 class. For tethered running only, with up to 21 c.c. Capable of 100 plus m.p.h. Not recommended for beginners.

MM/953 By M. Drinkwater LINDOH High speed airscrew-driven hydroplane for up to 3½ c.c., tethered only. Original model recorded 84 m.p.h. with 2½ c.c. glow motor. Balsa/ply construction.

lavout. 8/6 MM/1011 5/6

#### Power Boats From the Model Engineer Range

An asterisk (\*) indicates that the model is suitable for radio control.

- P.B. I HYDROPLANE. By Edgar T. Westbury. Length 24 in., beam 7 in. Drawn full-size, with plan, elevation and sections, and details of stem, transom, main bearers and bulkhead. Two sheets.
  5/6
- P.B. 2 HYDROPLANE. By Edgar T. Westbury. Length 33 in., beam 9 in. Plan, elevation and sections drawn full-size

  4/6
- P.B. 5 "F" Class Destroyer "FURY." By F. L. Davies. Length 27 in., beam 3 in., draught 1½ in., masthead to waterline 6½ in. Suitable for clockwork or other light power plant.

  Drawn full-size, with elevation, plan and sections.

  3/6
- P.B. 6 Hard Chine Hull "SEA MAID."\* By A. D. Trollope. Length 48 in., beam 12 in., draught 3 in. Hull lines and suggestions for superstructure are given half-size, with full-size forward and aft hull sections. 12/6
- P.B. 7 Motor Coaster "KARRIER." By A. D. Trollope. Length 25½ in., beam 5 in., draught 2 in., masthead to waterline 10 in. Three sheets.
- P.B. 8 Motor Yacht "MERMAID."\* By A. D. Trollope. Length 50 in., beam 10 in., draught 2 in., with round bilge and masthead 20 in. above waterline. Elevation and plan, hull lines drawn half-size. Two sheets.
- P.B. 9 Motor Trawler "GLEANER."\* By A. D. Trollope. Length 53½ in., beam 12 in., draught 5 in., masthead to waterline 20 in. Based on "Thorina," one of the modern trawlers which work off the coast of Iceland. Three sheets, half size.

  8/6
- P.B. 10 Motor Salvage Tug "TITAN." By A. D. Trollope. Length 51 in., beam 10 in., draught 5 in., masthead 21 in. above waterline. This model is based on the 3,000 h.p. Diesel Salvage Tug "Bustler," which was built for the Admiralty by Robb of Leith. Elevation plan and hull lines are given half-size. Two sheets.
- P.B. 11 VOSPER M.T.B. No. 379.\* By W. J. Hughes. Length 36½ in., beam 9½ in., draught 2½ in. Suitable for 2 c.c. diesel or 6 c.c. petrol engine. Two sheets.
- P.B. 12 Metre Hydroplane "GILDA." By E. A. Walker. Length 40 in , beam 13½ in. Drawn half-size, this has proved a simple but very successful design.
- P.B. 15 Ultra Cabin Cruiser "SENIOR." A "Scomod" Design. Overall length 63½ in., maximum beam 15½ in., maximum draught (propeller and rudder) 5 in. Hard chine hull with central cockpit, cabins fore and aft. Four sheets.
- P.B. 16 Cabin Cruiser "INSPIRATOR MK. I." A "Scomod" Design. Length 26 in., beam 6½ in. This is a modern type, with hard chine hull. Plan, elevation and frames are drawn full-size; constructional details and wiring diagram for electric propulsion are given.
  5/6
- P.B. 17 Motor Launch "JAVELIN." A "Scomod" Design. Length 25 in., beam 62 in. draught over propeller and rudder 112 in., This model has hard chine hull. 4/6
- P.B. 18 "Scomod" Reverse and Speed Control Unit. Wiring diagram and details of equipment for controlling the motor of an electrically driven power boat. 2/6
- P.B. 19 H.M. YACHT "BRITANNIA."\* By Edward Bowness from Admiralty Plans. Hull length 68 in., (L.W.L. 62\frac{1}{2} in.), beam 9\frac{1}{2} in., draught 2\frac{1}{2} in. Displacement 30-33 lb. Profile and deck plans given to 1/12 in. scale, hull lines to \frac{1}{2} in. Two sheets. 17/6
- P.B. 22 Wooden Steam Drifter. By R. Neville. Length 441 in., beam 9 in., draught 3 in. This model of an East Coast drifter of 1906-7 can be powered by steam or I.C. engine. Drawings give elevation, deck plan, with full details of formers, superstructure, etc. Three sheets.
- P.B. 24 R.M.S. "HIMALAYA." By C. J. Sawbridge. Overall length 44½ in., beam 5% in., depth 4 in. Scale % in.-1 ft. Two sheets.
- P.B. 27 M.T. "IONA." By Oliver Smith. Scale ‡ in.-1 ft. A diesel-powered ship towing tug designed for dock duty, and working mostly in the Royal Group of London Docks. Drawing shows general arrangement, side and plan elevation. 5/6

- P.B. 28 HYDROPLANE for 5 c.c. engines. Designed by Ken Hyder and Peter Lambert. Length 26½ in., beam 8½ in., depth 2 in. Full-size drawing.
- P.B. 29 M.V. "CRANBORNE". By Oliver Smith. (Vols. 126-129). Length 41½ in., beam approx 7 in., scale ¼ in.-1 ft. Drawings give general arrangement, side and plan elevation, hull and water lines. Two sheets.

Hydroplanes

HOTFOOT

Most unusual three point hydrofoil airscrew driven boat for up to 1.5 c.c.
Extremely fast for tethered or free running, simple balsa construction, overall
length 15 in.

MM/476

SKIDDER

Air-driven hydroplane of rather more advanced construction, but still within the scope of the beginner. Designed for tethered running at very high speeds with 1.5 to 3.5 c.c. motors; or free running with 1.5 max.

MM/309 \* \* \* 3/S C U D D E R

Large twin pontoon hydroplane, for up
to 3.5 c.c. The simplest form of boat for
radio-control, which can be easily accommodated in the spacious cabin. Length
24 in. Beam 15 in. Balsa and ply construc-

MM/311 \* \* \* 4/SLIPPER
Simple 11 in. near-scale outboard racing hydroplane for small and medium electric outboard motors. All-balsa. With fully illustrated step-by-step instructions.

MM/518 \* 2/6

HYDROJET

16] in. hull length. A modern design for power by the popular Jetex 350 jet unit. The model can be run free or on circular course with a cable. Capable of very high

MM/172

Hydroplane 16 in. L.O.A. Beam 6 in. Specially designed for the under 1 c.c. engines, in particular .5 c.c. Frog or similar. For free running or circular tethered work. Suitable for novices.

MM/241

\* 3/6

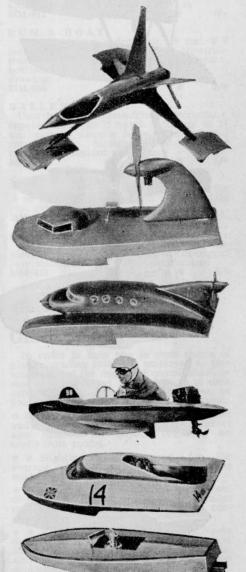
A VOCET

A 17½ in. long airscrew-driven amphibian model, capable of fast running on land and water with .75-1.5 c.c. motors. Unusual but handsome appearance, ply/balsa construction

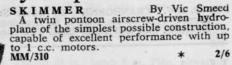
MM/627

\* \* 4/-





Airscrew Driven Hydroplanes



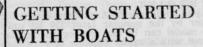
MENANG L.O.A. 151 in. Beam 51 in. Simply propelled hyroglider capable of fairly high speeds powered by diesels of up to 1 c.c. \* \* \*

SKIPPER

Skimming dish type of air-driven hydroplane of ultra-simple construction and suitable for motors of up to .75 c.c. A quick to build model which will give hours of fun on the water. 2/6

DETOUR An unusual triangular airscrew hydroplane with a vented step etc., suitable for up to 1½ c.c. free-running. Mainly balsa construction, requires pusher propeller.

QUAFOIL By M. H. Bosier A revolutionary model hydrofoil boat of AQUAFOIL exceptional performance. Features simple when making the foils. Airscrew drive, power on prototype was 0.8 c.c. diesel. MM/765 \* \* \* 5/-

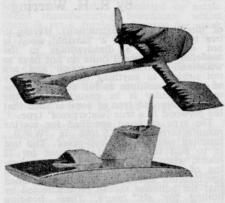


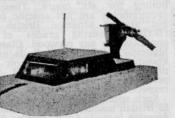
Model boating, sail or power, is increasing in popularity month by month. Our range of plans, already the finest in the world, is continually expanding to meet the demand with a carefully balanced programme designed to cater for both beginner and expert. If you are thinking of building a boat for the first time, may we suggest the follow-

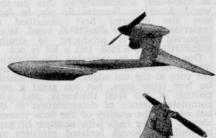
Sail—Sea Urchin, Water Baby A or B. Lancet, or Lady Betty.

Power—Waterbug, Mistral, or Moon-mist for electric power, Kingfisher or Scudabout for electric or small diesels, Lorette or Moonglow for larger diesels, Scale Types—Bustler or Silver Mist for electric, Lorosa or Thornycroft MTB for diesel.

We are sure that, if starting from scratch, you will find the book "Boat Modelling" at only 5/- worth its weight









SKATER

Three-float air-driven hydroplane of advanced design, but straightforward construction, using balsa and ply. For very fast free-running with 1-2 c.c. motors.

MM(312) MM/312

SPINDRIFT A 19 in. airscrew driven hydroplane for free or tethered running. High speed achieved with engines up to 1½ c.c.

MM/612

\* \* 4/-

RUN-A-BOAT Airscrew-driven hydroplane, 18 ins. x 9 ins., for 1 c.c. engines. Simple construction excellent for small radio equipment, positions etc. of which are given on drawing. MM/706 3/6

BALLERINA Unorthodox airscrew-driven hydroplane, capable of up to 75 m.p.h. with up to 21 c.c. motors. Length 24 in., for tethered running only. Straightforward construction from standard materials.

MM/350

\* \* \* \* 2/6

SHALIN Attractive airscrew-driven hydroplane for .5 to 1.5 c.c. constructed in 1/32 and 1/16 ply, overall length 22 in.

SCOOTER 22 in. A.S.D.H. for .5-1.5 engines, employing pusher propeller and outrigged rear stabilisers. All balsa construction. MM/435

#### STAR PLAN GRADING

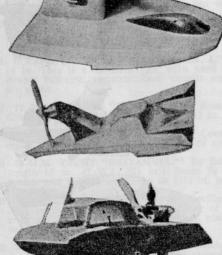
In order to help you in your choice of plan, a grading system is employed to give some idea of the degree of complication or ease of construction. At the bottom of each caption will be found one, two, three, or four stars, with the following meanings:

\* A simple design with sufficient detail and explanation for the complete beginner; also suitable for anyone requiring an easily-built model.

\* \* Slightly more advanced, for the average modeller or beginners with some modelling experience in other fields.

\* \* \* For modellers of some experience, or those who have built one or two similar models or are prepared to read up con-structional technique.

\* \* \* For the expert able to interpret drawing (e.g. hull lines drawings) and decide his own constructional methods; also used for designs where workshop equipment is called for.



#### Marine Ply

By R. H. Warring

water-resistant. Even more important, the plywood is a true 'waterproof' type. however, is the choice of woods which may range from virtually rubbish to care-fully selected veneers; and the specification meaning weather and boil-proof. The test relating to manufacture. The majority of is to boil the plywood in water for 72 plywoods are not produced to any speci- hours, when there should be no weakenfication, only to what manufacturers ing of the adhesion. The earlier gluing consider necessary requirements. Thus specification was 'A.X.100', which specified properties can vary widely, and this that the adhesive should be unaffected by applies particulary to imported plywoods, boiling for six hours. These bonding Some of the latter are good—some very requirements are not specific to B.S.1088 poor to the extent that, apart from inter-but are a separate British Standard nal defects, delamination can take place at (B.1203) covering grades of bonding

exposure to normal atmospheric conditions respect. with a minimum liability to warping, etc. Such specifications, of course, apply only There are no rigid specifications control- to British manufactured ply. Marine ply in ling its manufacture. Aircraft ply and America is made from Douglas fir, because marine ply, on the other hand, are of the ready availability of this durable

the woods to be used.

Basically, all marine ply must be made from a wood classified as 'durable'. which restricts choice to seven species (see Table to Theorem 2 to 1888). The material lifts' described as 'exterior' ply, with a suitable bond. Much imported ply is produced to similar standards to B.S.1088, but a lot is not.

One clue as to assessing the probable stamped on the panel.

made from birch or spruce—with some is which when examining small pieces, but mahogany—and high quality 'general' ply the difference in appearance is usually also usually has birch or spruce facing quite marked on the larger panels. Thus veneers. These woods are definitely if the ply piece you require is to be cut unacceptable for full size marine use since from a larger sheet, it is always as well they are perishable, although they are to examine the whole sheet first and mark used quite successfully for model construction. Where very thin plywood is required, in fact, birch ply may be the finish is to be employed on the final hull. The thickness of all plywoods, incident ply is made in 3/16 in. thickness upwards ally, is quite a nominal figure. Standard and very little thinner stock is readily practice in all countries except the United

There are a number of common mis- of 'moulded' hull construction). Having to conceptions regarding the difference be- use birch instead of a 'marine' wood is tween 'marine ply', 'waterproof ply', not necessarily a disadvantage to the 'exterior ply' and ordinary plywoods; and modeller since model hulls do not have to also about the properties of plywoods in withstand continual immersion and are general. Practically all modern plywood not subject to anything like the severity is resin bonded-i.e. manufactured with of service conditions as full size craft. The synthetic resin adhesives-although not all main difficulty is in ensuring that the the glues used are 'waterproof' or even manufacture and type of bond is such that

the edges when exposed to damp, or surface 'blisters' appear.

Exterior grade ply generally classifies a known as 'A.X.100'. Class A or B bonded surface 'blisters' appear.

Exterior grade ply generally classifies a plywood where the bond is water-resistant plywood would be regarded as 'water-resistant plywood would be 'water-resistan and thus the material is suitable for proof and equivalent to marine ply in this

produced to strict specifications, the main wood. American Douglas fir ply, in fact, difference being on restrictions regarding was the material first described as

I). These, it will be noticed, differ quality of an unknown ply is to examine appreciably in weight and thus there is no the core at the cut edges. The core should 'typical' weight figure for marine plies. be free from gaps, not too great a pro-The special need for a light marine ply portion of the total thickness, and with has, however, led to the acceptance of one complete absence of delamination at the non-durable wood to be included in the cut edges. The quality of the face veneers specification. This is Gaboon, with a should also be high with absence of gaps density of 27 lbs. per cu. ft. e.g. 50 per or faults, although isolated pinholes are cent. less than Makoré, which is a comquite acceptable, even in the highest mon choice for top quality marine ply quality production. Joints in the face (usually made with a lighter core material such as Seraya). Because Gaboon is not necessarily colour matched. Top 'marginal' on durability, all marine ply quality marine ply, however, is produced manufactured to B.S.1088—1957, and employing it, has to carry the word 'Gaboon' matched (the side to choose for varnish-stamped on the panel. ing), and the other intended for painting. A majority of aircraft plywoods are It is not always easy to decide which face

available (although it is made for forms States and Canada is to specify veneer and

ply thickness in millimetres. These sizes just a little over 13/64 in. in fact, or are nominal, within permitted or estab- nearer 3/16 in. than 4 in. lished manufacturing tolerances; whilst there is yet a further tolerance for stock sides to finish.

In general (and specifically in the case of plywood to B.S.1088), manufacturing tolerances are:

Plywood 1 in. thick and under-plus or minus 5%.

Plywood over 1 in. thick-plus or minus

The additional tolerance allowable for some 'general' plywoods.

sample. In general it will tend to the the wood properly. lower limits, i.e. always be under the Finally, a word about adhesives for nominal size, which should be borne in assembling plywood hulls. The best

marine ply would be:
.236 in. — (5% of .236) — .016 in.

=.208 in.

Another interesting point is, just how "waterproof" is marine ply? The bond is removal when the panel is sanded on both fully resistant to water but the veneers themselves, being wood, are not. Marine ply must be protected like any other wood by painting or varnishing, particularly at exposed edges. And although the bond is not affected by water the glue layers do not present a waterproof barrier. Water can pass through the glue line. It is another characteristic of marine ply-or almost any ply, for that matter, that if exposed to excessive damp when unproranding is a maximum of .016 in. for sand-tected by surface coatings it will develop ng both sides (B.S.1088), although this dark stains, and often these stains will can be considerably higher in the case of appear under a varnish coating (showing ome 'general' plywoods.

Plywood to a nominal thickness, there-waterproof). Such stains are not harmful fore, can vary quite a bit from sample to and can usually be removed by drying out

mind when calculating an inch equivalent adhesives are, without doubt, the synthetic resins-Aerolite or Cascamite. The cel-For example, 6 m.m. ply is nominally lulose base adhesives (balsa cement) are 236 in. thick and is commonly quoted as not satisfactory, largely because they are '4 in.' ply. The lower limit of 6 m.m. not fully water resistant. The synthetic resin adhesives are more awkward to use and take longer to set—but there is no substitute for them in ply hull construc-

This is well down on 1 in. thickness- tion model or full size.

#### PERMITTED WOODS FOR MARINE PLY MANUFACTURE \*

Nan	ne of W	Vood		Colour	Durability	Average Weight lb./cu. ft
AGBA		Alleg	19	Yellow	Good	32
IDIGBO				Yellow	Good	34
MAHOGANY	•••			Red	Moderate	32
RED MERAN	TI (SE	ERAYA)		Pink	Moderate	33
MAKORE		A LIEV	W. W. A.	Red	Excellent	39
SAPELE		inity . In the	Trumps	Pink	Moderate	39
UTILE	d .buy	obajiy t	1110 30	Pink	Good	41

\* GABOON is also permitted (Density 27 lb./cu. ft.)

BRITISH STANDARD No. 1088 — BRITISH MADE PLYWOOD FOR MARINE CRAFT
This standard was first published in 1944, revised in 1951, and again in 1957. Prior
to 1957 choice of woods was not restricted other than to "agreement between manufacturer and buyer", thus perishable woods (e.g. obeche) could be and in fact were
used on some earlier marine plywoods.

Plywood manufactured to B.S.1088 bears this stamp the manufacturer's name
and leaves the principal state of the propriet of the propriet the propriet of th

and batch number on the original panel. Subsequent to 1957 the nominal thickness is also stamped on the panel. Marine ply utilising gaboon will also bear the additional stamp "Gaboon"

Additional markings 'A.X.100' or 'W.P.B.' may or may not appear on the panel. They would not normally appear on marine ply manufactured to the 1957 specification since 'W.P.B.' bonding is implied in the specification. However, some manufacturers use the stamp 'W.P.B.' to emphasise that the bonding is to the latest standard.





Authentic drawings for a 1/10 full-size exhibition model of a 17 ft. Grand Banks hand fishing boat. All equipment carried in the boat is detailed on plan, down to bait knife! Non-sailing.

MM/563

CARIBBEE
A 1/24th scale ocean racing yawl with excellent sailing characteristics. Length 29 in. Bread-and-butter hull with "centreboard". On three completely detailed sheets.

MM/403

\* \* \* 15/-

DINGHY
21 in. scale model based on a 14-foot centreboard gaff-rigged, half-decked sailing dinghy. A really detailed model. Centreboard lifts in scale fashion, hull is clinkerbuilt, properly clenched, with watertight compartments. On two sheets, each 40 x 30 in.

MM/153

\* \* \* \* 9/6

SAND FAIRY ANN

Smart land yacht model capable of very high performance and incorporating such ingenious devices as a crew ballast swinging out to windward by an amount proportional to wind pressure on the sail. Simplified vane gear, easy and very inexpensive construction, length over all 17 in., height 30 in.

MM/466 \*\* 5/-

Scale model of popular American—and British—one-design class racing yacht. Ith full-size. L.O.A. 164 in. Beam 6 in. Of balsa and plywood construction and capable of amusing sailing. On one sheet, size 29 x 28 in.

## Scale Sailing Craft

DUTCH AUXILIARY

16½ in. L.O.A. 13½ in. L.W.L. Beam 7 in.
A 1/12th scale model of typical Dutch sailing yacht with auxiliary engine, suitable for sail and model electric, clockwork or sub-miniature (.5 c.c.) diesel engine. On one sheet, size 36 x 28 in.

MM/240

\* \* 4/-

ARGUS

A near scale wishbone schooner with a 30 in. hull length, for builders with a little experience. One of the most attractive models in our range.

MM/405

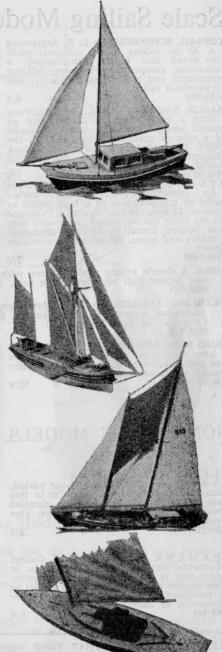
By H. E. Andrews
Andr

BLUEBOTTLE
A magnificent 1/10 scale model of the
Royal Dragon class yacht. Length 35 in.,
beam 8 in. On one sheet, size 64 x 22 in.
MM/293 \* \* \* \* \*

STAR CLASS YACHT
A pleasing 20 in. L.O.A. scale Star class boat, with hard chine construction. Braine steering, all constructional details. An inexpensive little model, excellent for beginners.

# 3/6





Scale Sailing Models

TOPSAIL SCHOONER By L. R. Armstrong A 30 in. sailing model schooner/yacht for bread and butter construction; a successful compromise between full-size complexity and model-size simplicity, and an excellent sailer. MM/909

BARGE YACHT By L. R. Armstrong With a hull length of 24 ins. and an overall length of 38 ins., this is a model of a type of craft frequently seen in the 1920's. Laminated bow and stern, 3-plank fine sailing midsection, barge rig. A fine sailing

MM/902 STUART YACHT By I. J. Browne An attractive, typical Stuart period yacht of c.1670 drawn to a hull length of approx. 12 ins. (14 ins. overall). Fore and aft rig (two headsails and gaff main) plus one square topsail. Heavily decorated topsides and stern. No model construction shown. MM/1004



SAILING GALLEON

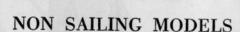
Practical model, approximately 24 in. overall length, of a typical galleon of the Armada period. Bread and butter construction, simplified rigging with inter-locked yard bracing for quick trimming. MM/641

NINA. A simple sailing model galleon with overall length of 20 in., employing a bread and butter hull and detachable keel. Based on Santa Maria. 7/6

PEARLING LUGGER. By L. R. Armstrong. An attractive and unusual model of an Australian lugger (in fact a ketch). Suitable for decorative or sailing purposes. Length 30 in. o.a., 22½ in. hull.

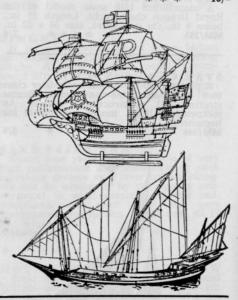
\*\* \* \* 10/-

GRAND BANKS SCHOONER By L. R. Armstrong A fine sailing model Indian-headed schooner of the type used for fishing off Newfoundland. Length over bowsprit and spanker boom 47 ins. MM/962

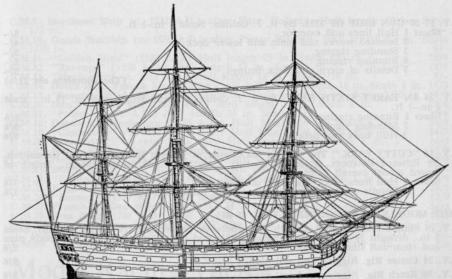


ELIZABETH REGINA
A decorative galleon of the Tudor period, circa 1580, designed by a specialist in this class of historical model. Fully detailed detailed the property of hull could be seen as the control of the cont drawing of hull, sails and fittings. One sheet size 28½ x 21 in. MM/135

SEAHAWK SEAHAWK
By R. J. Collins
Colourful Barbary Pirate Xebec, 29 in. in
length and 18 in. high. Plans and instructions enable a museum standard model to be produced; also suitable prototype for conversion to sailing. MM/481



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H.M.S. VICTORY

By G. F. Campbell
Drawings designed and executed by G.
F. Campbell, Assoc. M.I.N.A. Scale † in.-

1 II.	
Sheet 1 Running rigging.	5/6
2 Standing rigging.	5/6
3 Deck plans.	4/-
4 Inboard works.	3/6
5 Outboard profile.	3/6
6 Body plan (‡ in. scale)	3/6
SY/21 (The complete set	21/-)

MAYFLOWER By R. J. Collins A beautiful ship model typical of the 'Mayflower' type by a well-known authority on period ships. Authenticity of detail makes this model a real museum piece. On two sheets. Overall length 21 in. MM/444

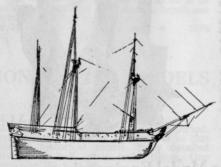


#### Non-Sailing models from the Model Engineering range

- S.Y. 1 "MARY DEAR." 12 Gun Brig of about 1820. By Stanley Rogers. Hull length 201 in. beam 5in., keel to truck 18 in.
- S.Y. 2 "GOLDEN HIND." (formerly "Pelican.") By Stanley Rogers. Sir Francis Drake's flagship on his voyage round the world (1577-80). This realistic model is 18 in. long overall, beam 5 in., keel to truck 18 in.
- S.Y. 4 Spritsail Barge "KATHLEEN." By Edgar J. March. Complete scale drawings on the actual ship, giving full details of hull lines and construction, deck fittings, sail plan and all rigging details. Five sheets.

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- S.Y. 5 Spritsail Barge "GIRALDA." By Edgar J. March. Champion of the Thames and Medway most years between 1897 and 1904. Hull length 15 ins.

S.Y. 17 50 GUN SHIP OF 1733. By R. J. Collins. Scale 1 in1 ft. Sheet 1 Hull lines and exterior.	5/-
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S.Y. 24 AN EARLY SIXTH RATE. By R. J. Collins. Overall length a	approx. 19 in., scale
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2 Standing rigging 3 Hull lines and details.	3/6 5/6
S.Y. 26 "CUTTY SARK." The famous tea clipper at present in dry By Edward Bowness. Scale 1/16 in1 ft. Length of hull overal	berth at Greenwich. l 14½ in., length of
rigged model overall 18 in.  Sheet 1 Hull lines, deck plan and deck details.  2 Details of deckhouses, rigging plan, masts and spars.	3/6 3/6
SHIP MODELS FOR BEGINNERS (S.Y. 28-34)	
S.Y. 28 Simple Planked Hull. Length 30 in. between perpendiculars (3 7 in., draught 3½ in. Drawing shows profile and water-line plan, and stem and stern profile.	34 in. overall), beam and also body plan 5/6
S.Y. 29 Cutter Rig. Rigging and sail plan.	5/6
S.Y. 30 Ketch Rig. Rigging and sail plan.	5/6
S.Y. 31 Fore and Aft Schooner. Rigging and sail plan.	5/6
S.Y. 32 Topsail Schooner. Rigging and sail plan.	5/6
S.Y. 33 Brigantine. Rigging and sail plan.	5/6
S.Y. 34 Brig. Rigging and sail plan.	5/6
S.Y. 40 MEDITERRANEAN GALLEY	Two Sheets 10/-



MYRMIDON By R. J. Collins A ship-rigged sloop of 22 guns, late 18th century man-o'-war. (Vols. 116-117). Scale

hin.-I ft. Sheet 1 Hull lines, body plan, hull con-struction details, deck fittings 4/6 2 Deck and rigging details.

3 Standing rigging 4/6 4 Standing rigging

CLIVE MILLWARD DRAWINGS

SY/25

The following Clive Millward drawings are made available by popular request. The originals, from which copies have been made, are in many cases imperfect, so that purchasers are advised that minor flaws in reproduction are unavoidable. For this reason special handling is required in processing, and this is reflected in

III. 1870 A.	
C.M.1. Viking Longship (900 A.D.) Hull length 16 in. Scale 1/5 in.	5/3
C.M.2. King's Ship (1200 A.D.) Hull length 12½ in. Scale ½ in.	5/3
C.M.3. Ancient Keel (c. 1287 A.D.) Hull length 6in. Scale 1/10 in.	5/3
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C.M.9. Merchant Ship (c. 1532 A.D.) after Hans Holbein. Hull length 10 in. Scale C.M.10. Dutch Warship (c. 1550 A.D.) after Pieter Bruegel. Hull length 12 in. Scale 1/10 in. C.M.11. "Golden Hind" (1580 A.D.) Hull length 15 in. Scale 1/5 in. 12/9
C.M.12. "Revenge" (1590 A.D.) Hull length 17 in. Scale ½ in.
C.M.13. "Mayflower" (c. 1610 A.D.) Hull length 12 in. Scale 1/10 in.
C.M.14. Dutch-Built French Man-O'-War (1626 A.D.) Hull length 18 in. Scale ½ in. 14/3
C.M.15. "Sovereigne of the Seas" (1637 A.D.) Hull length 23 in. Scale ½ in. 14/3
C.M.16. Dutch Man-O'-War (1665 A.D.) Hull length 20 in. Scale ½ in. 19/6
C.M.17. "Psiyes" (1670 A.D.) Hull length 24 in. Scale ½ in. 19/6 C.M.17. "Prince" (1670 A.D.) Hull length 24 in. Scale \(\frac{1}{8}\) in.

C.M.18. Dutch East-Indiaman (1730 A.D.) Hull length 14 in. Scale \(\frac{1}{8}\) in.

C.M.19. "Gloucester" 4th-rate (1736 A.D.) Hull length 19\(\frac{1}{2}\) in. Scale \(\frac{1}{8}\) in.

C.M.20. "Centurion" 4th-rate (1740 A.D.) Hull length 21 in. Scale \(\frac{1}{8}\) in. 14/3 C.M.20. "Centurion" 4th-rate (1740 A.D.) Hull length 21 in. Scale \( \frac{1}{4} \) in. C.M.21. Dutch Sloop (1745 A.D.) Hull length 14 in. Scale \( \frac{1}{4} \) in. C.M.22. Dutch Bomb Vessel (1750 A.D.) Hull length 14 in. Scale \( \frac{1}{4} \) in. C.M.23. Dutch Yacht (1752 A.D.) Hull length 10\( \frac{1}{4} \) in. Scale \( \frac{1}{4} \) in. C.M.24. "Endeavour" Bark (1768 A.D.) Hull length 10\( \frac{1}{4} \) in. Scale \( \frac{1}{4} \) in. C.M.25. Frigate (1775 A.D.) Hull length 18 in. Scale \( \frac{1}{4} \) in. C.M.26. "Bounty" (1787 A.D.) Hull length 13 in. Scale \( \frac{1}{4} \) in. C.M.27. French 74 Gun Ship (1790 A.D.) Hull length 25\( \frac{1}{2} \) in. Scale \( \frac{1}{4} \) in. C.M.28. Gun Brig (1798 A.D.) Hull length 18 in. Scale \( \frac{1}{2} \) in. C.M.29. Dutch 60 Gun 3rd rate Man-O'-War (1800 A.D.) Hull length 24\( \frac{1}{2} \) in. 14/3 Scale C.M.30. Dutch Despatch Yacht (1800 A.D.) Hull length 17 in. Scale 1 in.

Model Racing Yachts

MM CLASS

This is a yacht class introduced by "Model Maker", to encourage the new-comer and junior in the yachting world. The rule is based roughly upon the popular Marblehead rating divided by two, hence the half Marblehead, ½M, or, as it has come to be known, M.M. Class.

WATER BABY A By Vic Smeed MM 1 in the illustration, this is the first boat to the MM 25 in. class. Can be built in several ways, plan A showing all details for bread-and-butter (balsa or hardwood) or glass fibre construction. Everything—including all rigging, vane gear, etc.—fully detailed. Displacement 55 ozs.-a genuine racing model in miniature.

WATER BABY B Exactly as above—the same boat, but giving full details for rib and plank construction, again in balsa or hardwood. Please ensure that your order clearly states code A or B to ensure correct plan being despatched. MM/355

SEA URCHIN By Vic Smeed Illustrated (MM2) with Water Baby right, this is a hard chine boat to the MM 25 in. class, suitable for ply or all-balsa construction. Full details given for all parts, including rigging and vane. MM/361

shown, reduced sail plan. 25 in. l.o.a. MM/376 \* \* \*



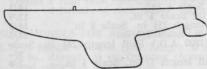
Not illustrated.

HUSKY By D. A. MacDonald 25 in. MM class design for builders of a A simple hard chine M.M. design with little experience. Partly based on circular bulb keel and minimum of internal struc- arc principles and an excellent all-weather ture. Ply construction, all hull parts design. Full hull lines, sail suits, explanatory details for building from lines. 4/6 MM/366

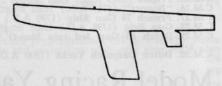


PLANE JANE By F. G. Draper An unusual 36 in. double chine yacht, simple to build and capable of outstanding performance. MM/823

SEA MEW By Vic Smeed 36 in. racing catamaran for vane steering. Simple construction, principally of ply, twin round bilge hulls, overall beam 18 in.
The first "serious" catamaran design for
model yachtsmen. MM/533



A simple 30 in. yacht by W. J. Daniels, pleasure sailing. Beam 7½ in., displacement 8½ lb. MM/511

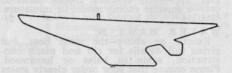


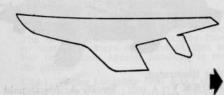
SIGMA An easy-to-build 24 inch hard chine sailing boat of balsa construction.

ROUNDELAY. By Vic Smeed. A non-class 1 metre long yacht design of attractive appearance. Has the ability to carry radio control. Can fit DF and DX classes. Displacement 10 lbs. Drawing includes lines, hull laminations, but no rigging detail other than scale sail plan. MM/957

## Class Racing Models

WINDSTAR By H. B. Tucker The only post-war new 6 M. design, up-to-date in every respect. L.O.A. 62 in., L.W.L. 42.5 in., Beam 11½ in., draught 9½ in., displacement 34½ lb. Half-size sheer and waterlines, full-size body plan; sail plan and all design information on one plan and all design information on one large sheet. MM/364





ADAGIO By H. E. Andrews Adagio is the first design to be published to the new "R" (radio) class rule and has been very carefully thought out by the designer. L.O.A. 65 ins. L.W.L. 49 ins. L.W.L. Beam 10.6 ins., draught 11.75 ins. Displacement 29 lbs. The drawings are half full size. MM/821

CONRAD. By H. B. Tucker. Designed primarily for a handysize radio control yacht, this model has proved a popular choice for R/C. Fits 'R' Class rule. In effect a Marblehead with overhangs, she is designed to carry up to 4 lbs. of radio in her 25 lbs. total l-o-a is 56 ins., l-w-l, 48 ins., beam 11.4 draught 11.25, S.A. 845 sq. ins. A good number of these boats are already sailing with success.

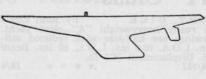
MM/799

\*\*\*\*
10/6

HIGHLANDER

By B. H. Priest, M.I.Mar.E.

Winner of the British and International Championships on a number of occasions, this design incorporates some remarkable characteristics and is an excellent sailer under all conditions. Particularly easy to handle during racing. L.O.A. 79 in., L.W.L. 54 in., beam 13½ in., displacement 52 lb., sail area 1,550 sq. in. Fullsize lines throughout. MM/482 21/-

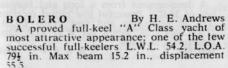


SAXON By B. H. Priest, M.I.Mar.E. Full-size lines drawing for an A-class yacht equal to any contemporary. Developed over seven years' hard racing. L.O.A. 81 in., L.W.L. 55 in., L.W.L. beam 14.6 in, sail area 1,560 sq. in., displacement 56.5 lb. One of the finest "A" boats MM/452

WINDFLOWER By H. B. Tucker "A" class of boat moderate beam and round easy section. L O.A. 78.4 in., L.W.L. 56 in., displacement 571 lb., sail area 1,479 sq. in. Three sheet plans giving all lines, full-size sections, dimensioned sail plan, MM/320

By S. Witty CIRRUS An attractive "A" class design featuring narrow beam. L.O.A. 78 in., L.W.L. 54 in., beam 14 in., displacement 53 lb. Designed for good all-round performance but at

best in light weather. MM/464 12/6

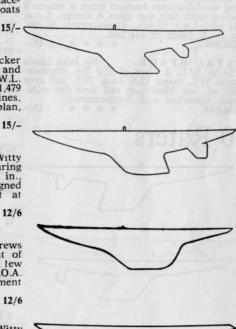


MM/559

NOVA
An "A" class design by a well-known model vachtsman. Not an extreme design, this boat should excel over a wide range of conditions. Length 79.8 in., beam 14 in., displacement 52.9 lbs.

MM/783 \* \* \* \* \* 10/6

MOONSHINE An extremely powerful "A" Class design of very handsome lines, employing many of this designer's successful 10-R features. L.O.A. 84 in. L.W.L. 55 in. Draught 12.2. Displacement 591 lbs. MM/606



## "A" Class O "A"

MOBY DICK

A really heavyweight "A" class yacht.

Drawings are half-size with reduced sailplan. L.O.A. 90.6 ins. L.W.L. 60 ins. Beam
15.5. Displacement 76.1 lb.

MM/817

\* \* \* \* \* 10/6

BOREAS

A new heavyweight "A" class design,
74.35 in. overall with 57 in. waterline and
61.8 lbs. displacement (salt water) with a
beam of 14.25 in.

\*\*\*\*\*\*
10/-

TOP HAT

Developed from 'Moonshine', incorporating modifications learned from a season's racing with this top class A design. L.o.a. 81½ ins., l.w.l. 55 ins., displacement 60 lbs. on l.w.l. beam of 14½ ins.

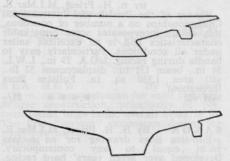
MM/670 \*\*\*\*\* 15/-

VITAL SPARK

54 in. W.L. A class of 51.7 lbs. displacement. W.L. beam 13.6, l.o.a. 79.5, sail area 1545 sq. ins. Maximum sail area for minlmum waterline and displacement.

MM/684

By John Lewis
displacement
Misplacement
Misplacement
MM/684



KUBERNETES

A big "soft profile" A class yacht, 1.o.a. 86.75 in., 1.w.l. 60 ins., 1.w.l. beam 15.5 ins., draught 13.1 ins., displacement 79.36 lbs. Half size lines throughout.

MM/914

\*\*\*\*

By John Lewis
Academic Structure Structure
Beam 12.6

By John Lewis
Academic Structure
Beam 12.6

By John Lewis
Academic Structure
Beam 12.6

By John Lewis
Beam 12.6

By John Lewis
Academic Structure
Beam 12.6

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Academic Structure
Beam 12.6

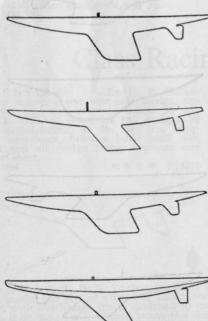
By John Lewis
Academic Structure
Beam 12.6

By John Lewis
Beam 12.6

By Joh

sewis S.Y. 38 "ACTIVE." An "A" class yacht. area By A. W. Littlejohn. Overall length 79.2 in. (54 in. W.L.), beam 14.2 in., draught 12.05 in. Displacement is 59.36 lb. (lead 45.6 lb.) 15/- and sail area 1,648 sq. in.

#### 10 Raters



WHIRLWIND

A development from a long and famous line of 10-R's. Powerful low bilged sections give an attractive and fast craft. L.O.A. 72.3 L.W.L. 55. Beam on W.L. 11.3. Displacement 31.3 lbs.

MM/582

\*\*\*\*\*

10/6

SIX-FIVE By S. Witty A pleasing 10-rater on conventional lines, but embodying all known advances. L.O.A. 75.35 in., W.L. 55.5 in., beam 11.1 in., displacement 30 lb. \*\*\*\*\* 10/-

MAREEIII
A 10-rater sharpie which has won many races. Extremely simple construction and particular emphasis on portability with split mast, detachable keel, etc. Complete fullsize drawings with structural detail, L.O.A. 66½ in., L.W.L. 52 in., displacement 23½ lb.

MM/504

\* \* \* 12/6

SORCERESS
Lightweight 10-rater of attractive lines.
L.O.A. 73½ in., L.W.L. 54 in., beam 11.6, displacement 25 lb. Full-size body plan and fin lines, half-size sheer and water lines, etc.

MM/427

\*\*\*\*

8/6

HALCEYON

A successful design on latest modern principles. Complete drawing with half-size sheer and waterline plans, and full-size body plan. Sail plan with three suits fully dimensioned. L.O.A. 69 in., L.W.L. 52 in., beam 11½ in., displacement 30.6 lb. MM/229

\*\*\*\*\*

12/6

BARRACUDA
Classic 10-rater design by S. Witty.
L.O.A. 72 in., maximum beam 11½ in., S.A.
1,142 sq. in. Weight 26½ lb. Half-size sheer
and water line plans, full-size body plan,
sail plan, on one sheet, size 38 x 28 in.
MM/313

\*\*\*\*\*
9/6

IMPALA

An elegant 10-rater with a displacement of 28½ lbs. and draught 14 in. Performs well under all conditions. L.O.A. 73 in. L.W.L. 54 in. Beam 11.1 in.

MM/565 \*\* \* \* \* \* \* 8/6

DECIMA

A dual purpose design to 10-rater or American X class rules. L.O.A. 80½ in., L.W.L. 60 in., maximum beam 10 in., displacement 28½ lb. Half-size sheer and waterlines, full body plan, sail dimensions, etc.

MM/329

\*\*\*\*

MacDonald

A. MacDonald

10-rater or

American X class rules. L.O.A. 80½ in.,

in displacement 28½ lb. Half-size sheer and waterlines, full body plan, sail dimensions, etc.

HYPERION

Long water-line 10-rater developed from Halceyon; fully contemporary and easy to build by any usual method. L.O.A. 72½ in., L.W.L. 55 in., beam 11½ in., displacement 28½ lb. Full body plan, other lines half-size.

MM/336

\*\*\*\*\*

MM/610-10-rater developed from Half-size.

MM/336

\*\*\*\*\*

MM/610-10-rater developed from Half-size.

MM/636

\*\*\*\*\*

MM/610-10-rater developed from Half-size.

MM/610-rater developed from Half-size.

TOLTEC

54-in. waterline 10-rater displacing 28t lb. Beam 12 in., L.O.A. 76t in., sail area 1,110 sq. in. A straightforward design embodying all proved desirable features. Half size sheer and waterlines, fullsize body plan and fin lines.

MM/479

\*\* \* \* \* 9/6

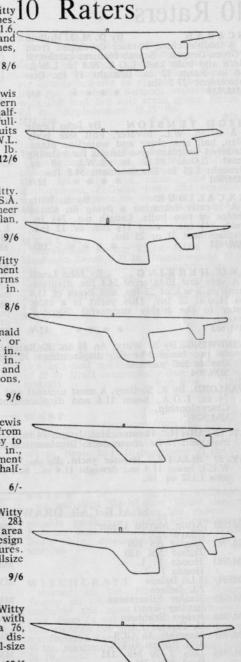
MONOCAT

An advanced 10 rater design, yet with a hard chine hull. Bulb keel. Lo-a 76, l-w-l 60, beam 11.65, draught 13.95, displacement 27 lbs., sail area 993. Full-size lines, double luff mainsail details.

MM/1006

\*\*\*\*

10/6



## 10 Raters

SCARAB

A double chine 10-rater developed from
Green Dragon." Scarab features cambered
deck and bulb keel. L.O.A. 70.4 in. L.W.L.
in. Beam 12 in. Draught 15 in. Displacement 27.7 lbs.

MM/839

\* \* \* \* \* \* 8/6

HIGH TENSION By John Lewis A 60 in. W.L. 10-rater. Full size body plan, half size sheer and waterline plans. Reduced sailplans give details for rotating mast. L.O.A. 80.12 in. L.W.L. 60 in. Draught 1.25 in. Displacement 34.8 lbs. MM/801 \*\*\* \*\*\* 12/6

EXCALIBUR
A 10-rater featuring a flying fin and a choice of two hulls. Length o.a. 74½ in., l.w.l. 54½ ins., beam 11½ ins. or 12 ins., displacement 21 or 23 lbs.

MM/637

\* \* \* \* \* 10/-

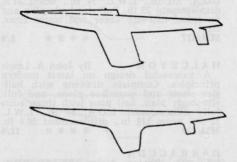
RED HERRING

A very fine 10-rater of 34.4 lbs. displacement on a w.l. of 55 ins. and beam of 11.4 ins. L.o.a. 76 ins. This yacht is a close sister to the highly successful 'Sirocco' design.

MM/663

\*\*\*\*\*

12/6



CALLER HERRING
A bulb keel 10-rater with very high aspect ratio sail plan. Disp. 32.5 lbs., L.W.L. 56 ins., L.W.L. beam 11.4 ins., l.o.a. 74 ins.

MM/896

\* \* \* \* \* 8/6

FLAMINGO
10-rater of 74 in. l.o.a., 57.5 in. L.W.L.,
12 in. beam, draught 13.5 in. displacement 28.5 lbs. The latest design trend of deep draught bulb keel giving more power for lighter weight and hence greater speed.

MM/916

\*\*\*\*
12/6

WINDWING. By S. Witty. An 81 in. 10 Rater design with a waterline of no less than 66 in., beam 10.4 in., displacement 30 lbs. A modern bulb keel design with a double luff mainsal.

MM/954

\* \* \* \* 10/6

WARLORD. By R. Stollery. A most unusual and advanced 10 Rater, with a 60 in. L.W.L., 74 in. L.O.A., beam 11.6 and displacement 28 lbs. Winner of the 1966 10 Rater Championship.

MM/920

\*\*\*\*

12/6

S.Y. 12 "MOTH." 10-rater. Hull length 74 in., L.W.L. 48 in., beam 12 in., draught 10 in., masthead 78 in. above deck. Displacement 29 lb. 25/-

S.Y. 37 "SLEUTH." 10-rater yacht. By A. W. Littlejohn. Overall length 73 in. (53 in. W.L.), beam 11.8 in.; draught 11.4 in., and displacement 28 lb. (lead 19 lb.) and sail area 1,132 sq. in. 7/6

1/32 SCALE CAR DRAWINGS (continued from page 75)

	132 SCIALE CAR	DICAMINGS (C	ontinued from page 1
MM/981	Aston Martin Ulster		Ford G.T. 40 Mk. 11
	Allard J2X	MM/990	Chaparral 2E
MM/982	Jaguar SS 100	MM/991	Lotus 48
	Jaguar XK 120		B.R.M. 83
MM/983	Honda F. 1.	MM/992	Matra F2/3
	Honda F. 1.	31.0	Chevron G.T.
MM984/	5.L. Delage	MM/993	Maserati Tipo 61
	2.L Delage	200000 2000	Maserati Tipo 65
MM/985	Healey Silverstone	MM/994	S.T.P. Paxton Turbine
11111, 700	Bentley Sport		Peugeot Diesel
MM/986	Repco Brabham	MM/995	
11111, 200	3L Ferrari F.1.	,	Iso Grifo 365
MM/987		MM/996	
111111/201	Alfa Romeo G.T.A.	,	Ferrari 246 Dino
MM/988	Lola T 70 Mk. 111	MM/997	
141141/200	Ford Mk. 1V	MM/998	
	TOTA MIK. IV	141141/990	Chaparra 2D

#### Marbleheads



Marblehead design to advanced principles, employing high aspect ratio sails, thick fin, etc. 10.6 beam, 22.4 lbs., displacement. Full-size lines and reduced sail plan complete on one sheet.

MM/323

By John A. Lewis principles, advanced principles, employing high aspect ratio sails, thick fin, etc. 10.6 beam, 22.4 lbs., displacement. Full-size lines and reduced sail plan complete on one sheet.

MM/323

MERLIN
Marblehead Racing Yacht. L.O.A. 50 in.
Maximum beam 9.92 in. Displacement 17.6
lbs. Designed on metacentric shelf
principles based on Admiral Turner's
theoretical balance equations. Complete
with all hull lines, half-sail plan for three
suits.
MM/106

\*\* \* \* \* 10/6

MANTA

A 22-lb. Marblehead of narrow beam (9.4 in.) and medium/heavy displacement of 22 lb. Draft is unusually deep at 11.6 in. MM/551

\*\*\*\*\*

MANTA

By S. Witty

displacement of 22 lb. Draft is unusually deep at 11.6 in. MM/551

WASP
A design development from the popular
"Hornet". An attractive craft of good all
round performance. L.O.A. 50 in. L.W.L.
48½ in. Beam 10.1. Displacement 21 lbs.
MM/574

\* \* \* \* \* 10/6

SAIDA

By D. A. McDonald
An excellent Marblehead 50/800 design,
well suited to beginner or expert. A
reliable performer under all conditions.
Full-size hull lines, reduced sail plans.
Beam 10 in., displacement 20½ lbs.

MM/295

By D. A. McDonald
conditions
the conditions
An expert. A
reliable performer under all conditions
Full-size hull lines, reduced
the conditions

Am / 295

WITCHCRAFT
Winner of the 1954 'Model Maker'
Trophy on its first outing, this design is
probably the most popular Marblehead
ever. Easy to sail, top flight performance,
still up with the best. Features seal-flipper
fin, forward flare, aft tumblehome. L.W.L.
47 in., maximum beam 11 in., displacement
22 lb.
MM/342

\*\*\*\*
10/6

HUSTLER Full size plans with reduced sailplans for 3 suits of sails plus one high aspect set. L.O.A. 50.25 in. L.W.L. 48.6 in. Beam 10.25 ins. Draught 11.375, displacement 21.25 lbs.

BEWITCHED By B. H. Priest A 23½ lb. Marblehead design, developed from 'Witchcraft' and 'Witch', from the board of B. H. Priest. Plan includes scaled details of light weather top suit and normal weather top suit. 10/6

BOSUN ... By S. Witty A powerful new Marblehead shown on a reduced saipplans. L.O.A. 50.25 in. L.W.L. 47.5 in. Beam 10.8 in. Displacement 22.55 lbs. 10/6

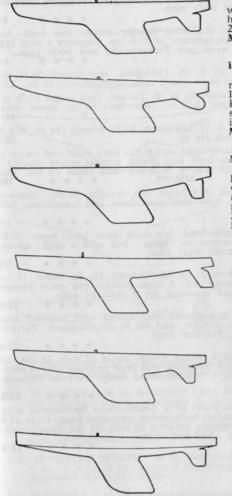
FLAMENCO By D. M. J. Hollom A double chine, deep draught Marble-head, L.O.A. 50.24 ins, L.W.L. 48.5 ins., Beam 11.59 ins. Draught 12.5, Displacement 20.87 lbs. Sheer and waterline plans are drawn half size, body plan full size.

DAREDEVIL By R. Stollery An intriguing Marblehead utilising bulb on keel. Drawn full-size with reduced sailplan. L.O.A. 50in. L.W.L. 48.75 in., beam 10.34 in. Displacement 20.6 lbs. 10/-

KINGFIN A new Marblehead 50/800 design developed from the Vega concept, featur-ing a bulb keel and a raked fin. Full-sized hull lines, reduced sailplan. L.O.A. 50.25 ins. L.W.L. 48.39 in. Beam 10.1 ins. Draught 15.22 ins. Displacement 18 lbs.

HAMMER Hammer has been described as "The most powerful Marblehead yet designed.' It has been developed from the successful design concept, featuring a bulb keel. L.O.A. 50.25 ins. L.W.L. 48 ins. Beam 10.85 ins. Draught 13.6 ins. Displacement 10/-MM/832

#### Marbleheads



TOBOGGAN

An interesting hard chine Marblehead with narrow, deep fin and bulb keel; alternative keel shown. Beam 10.6 in., displacement 19½ lbs., draught 15.25 ins. or 10.75 ins. \* \* \* \* 10/6 MM/911

Power and good looks combine in this 22.37 lb. Marblehead which has a 10.6 in. beam and a draught of 12.1 in. Half-size sheer and waterlines, full-size body plan.

She of the most attractive mathematical from this designer's board, and one that proved instantly popular on publication. Beam 10.85 ins., draught 12 ins., displacement 22.5 lbs., with deceptive power. By John Lewis sheer and waterlines, full-size body plan. ment 22

\*\*\* \* \* \* 7/6

MM/905 \* \* \* \* MM/900

HORNET By S. Witty A modern and attractive Marblehead with design features to assist planing in hard weather. Beam 10.3 in., displacement MM/472 \* \* \* \* 10/6

By W. J. Daniels FESTIVE Complete with full-size hull lines, reduced size sail plans for three suits, and 12-page illustrated instruction booklet. Beam 10 in., displacement 20 lbs. (Note special Vane Gear suitable for this yacht is also available.) 10/-MM/201

By D. A. Macdonald MITHRAS A tried and proved heavyweight Marblehead with top-class performance in any weather, for planked or carved construction. Full-size waterline, sheer, and body plans, etc. Beam 11 in., displacement 231 lb. MM/408 \* \* \* \* 10/6

By B. H. Priest An attractive Marblehead of very modern design featuring flattish floors and powerful sections, specially suited to sliding rig, L.W.L. beam 10½ in.; displacement 23½ lb. Full-size body, sheer and waterline plans with reduced sail plan on one sheet. \* \* \* \*

By S. Witty DYNAMO A powerful Marblehead of attractive shape. 22½ lb. displacement, 10.1 in. beam. Keynote of design is careful attention to dynamic balance. \* \* \* \* 10/6 MM/508

CHINABOY

A top performing sharple (hard chine)
Marblehead which has won many regattas and is also excellent for radio control. All construction detail included on the plan. Beam 111 in., displacement 161 lb.

NORMA

By S. Witty
A new, relatively lightweight Marblehead
design featuring an unusually deep draft. A pleasing design measuring 50.25 ins. by 10.4 ins.; plan gives full size lines and reduced Sail plan. Displacement 20.65 lbs. \* \* \* \* MM/701

GOLDEN ARCHER By S. Witty One of the most attractive Marbleheads

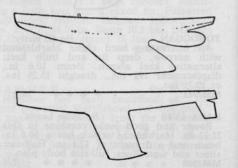
SPRINT. By S. Witty. A bulb keel Marblehead with a beam of 9.9 in. and a displacement of 21.5 lbs. Canoe body evolved from Golden Archer and Toboggan. Half-size sheer and waterlines. Full size fin and body plan.

- TYPHOON. By S. Witty. Developed from the Wasp/Hustler series, this bulb keel Marblehead has a 10 in. beam and a displacement of 21.5 lbs. Employs a very high aspect ratio rig. Half-size sheer and waterlines. Full size fin and body plan.
- S.Y. 7 "FALCON." An "M" Class Yacht. By A. W. Littlejohn. Hull length 50.12 in., beam 9.30 in., draught 9.60 in., masthead 66 in. above deck, displacement 20 lb. 12/6
- S.Y. 20 "WATER NYMPH." An "M" class yacht. By H. B. Tucker. Hull length 50.25 in., L.W.L. 47.5 in., beam 10.625 in., draught 10.75 in., masthead 68 in. above deck. Displacement 22½ lb.
- S.Y. 36 "KESTREL." Marblehead yacht. By A. W. Littlejohn. 50 in. overall (49 in. W.L.), beam 10½ in., draught 10 in., displacement 24½ lb.
- V E G A. By S. Witty. An unusual new Marblehead which has been built and sailed to prove its practicability, this design features bulb keel giving normal power despite a total displacement of only 16.51 lbs. Length o.a. is 50.25 ins. and beam 9.8 ins. Plan MM/759 includes sail plan to smaller scale.
- WING. By S. Witty. A bulb-keel Marblehead, 10.5 beam, 12.1 draught, 21 lbs. displacement, with traditional, well developed hull. Half size sheer and waterlines, full size body plan. MM/958
- ELF. By S. Witty. Conventional hull Marblehead, but with bulb keel, beam 10.35, draught 12.1, displacement 21 lbs. A partner to "Wing", but with a slight advantage in very light winds. Half size except body plan. 7/6
- MARCH HARE. By Roger Stollery. Modern 20 lb. Marblehead, 101 in. beam, 12 in. draught, with rounded deck merging into hull. A high pointer and early planer, even on a reach. Full-size lines, reduced drawings for 5 suits of sails.
- WHITE RABBIT. By Roger Stollery. Streamlined Marblehead with rounded top-sides and bulb keel, 9 in. beam, 12½ in. draught, and 18½ lb. displacement. Particularly good downwind and on a reach. Full-size lines. 12/6 MM1001
- MAD HATTER. By Roger Stollery. Third of a design group, an M of only 16 lbs. on 11 in. beam and 12 in. draught. Bulb keel, flattened oval type sections Above average performance, especially to windward. A very advanced model. Full-size throughout, 9 reduced sail plans. MM/1002
- M OUARTET By R. E. Dunster. Full-size plans of a double-chine Marblehead with four different fins/leads for the same canoe body giving draughts from 11 to 12.9 in. on a I-w-l beam of 10.2 and displacements between 19 and 20½ lbs. Good, competitive performance from all versions. Full-size lines. 12/6

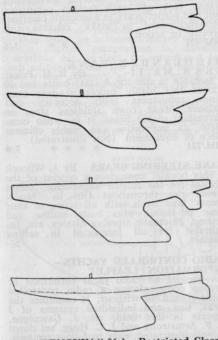
#### 36 ins. Restricted

LANCET 36-in. Restricted Class Hard Chine Sharpie. Capable of meeting the best racing today, and an economical boat to build. Intended for kit production, parts are few and together with sails and fittings can be obtained at competitive prices. Complete with building instructions on two sheets, size 40 x 30 in. and 20 x 15 in. MM/266

FIREBIRD By D. M. J. Hollom This hard-chine Marblehead features a high aspect ratio sailplan and a bulb keel. Half size lines, full size body plan. MM/828 \* \* \*



### 36 ins. Restricted



HARLEQUIN By Bernard Reeve, M.S.N.R.

A 36in. Restricted Class Yacht. For "bread-and-butter" type construction. On two sheets, including sail plan with three suits, and all fittings details, size 47 x 28 in. and 33 x 29 in. MM/276

LADY BETTY

A 36 in. Restricted Class Racing Yacht. Construction is on "bread-and-butter" principles, and in view of moderate size and simple lines can be tackled by comparative novice. Complete with hull lines, profiles, body plan and half-breadth plan. Full illustrated building instructions in-cluding details of all deck fittings and Braine steering gear. MM/190

By H. B. Tucker WINDBIRD Low free-board and easy lines characterise this design which exploits to the full the M.Y.A. 36 in. rule. Excellent for breadand-butter construction. Details for four suits of sails, full-size lines, etc.

RAZORBILL By W. J. Daniels A 36 in. Restricted Class Yacht designed RAZORBILL as a hard chine sharpie for easy construction. Full size lines, detailed step-by-step instructions and sail plan. One sheet, size 47 x 36 in. MM/284 7/6

S.Y. 6 "PENGUIN." 36 in. Restricted Class Yacht. By A. W. Littlejohn. Hull length 36 in. beam 9 in., draught 8 in., masthead 521 in. above deck, displacement 12 lb.

- S.Y. 10 "MIDGE." 36 in. Restricted Class Yacht. Hull length 36 in., L.W.L. 34 in., beam 9 in., draught 8.4 in., masthead 55 in. above deck. Displacement 12 lb.
- S.Y. 15 "SLIPPERY SAM." By H. B. Tucker. 36 in. Restricted Class Yacht. Hard Chine. Hull length 36 in., L.W.L. 34 in., beam 9 in., draught 9½ in., masthead 59 in. above deck. Displacement 11 lbs. 4 oz. Two sheets.
- S.Y. 19 "WATER SPRITE." 36 in. Restricted Class Yacht. By H. P. Tucker. Hull length 36 in., L.W.L. 34 in., beam 9 in., draught 8§ in., masthead 57 in. above deck. Displacement 11½ lb. Two sheets.
- S.Y. 35 "EAGLE." 36 in. Restricted class yacht. By A. W. Littlejohn. Overall length 36 in., beam 9in., depth 11in.

## International 10/40 class

COQUETTE III. An advanced design to the international 10/40 class. Popular in France and used in a number of European regattas. Length 1 metre, beam 9 in., displacement 11.1 lbs. 9/6 MM/948

PLEASE MAKE SURE THAT YOUR ORDER CLEARLY GIVES YOUR NAME AND FULL ADDRESS PLUS NAME, NUMBER, AND PRICE OF PLAN. We want to despatch your order quickly, and clear writing plus full details helps us to do so.

## Yacht Accessories WOVING CARRIAGE

Marblehead design Festive, but equally Straightforward to make, reliable and suitable for any modern design where precise in action. rudder pintle comes very close to transom. MM/631 On one sheet, size 32 x 17 in. MM/245

VANE STEERING GEAR

By S. Elphee no independent setting. On one sheet balance. Made from stainless steel or (twice full-size), 20 x 15 in. \* \* \* \*

LASSEL SELF-TACKING VANE GEAR By A. R. "Gus" Lassel

The foremost Vane Gear in the world in plan form for home construction. On one sheet, complete with Elements of Linkage, size 25 x 19 in. MM/270

SIMPLE VANE GEAR

By J. Weeks A fully detailed and dimensioned drawing enabling anyone to construct an efficient Vane Steering Gear. "M" class dimensions given, but also suitable for larger models. MM/398

RIGGING AND FITTINGS A sheet of fullsize rigging and fittings

for Marblehead yachts, also suitable for many 10-raters, etc. Fullsize booms, etc., drawn with all fittings, plus reduced deck items, especially suitable for China Boy. MM/503

By A. Wilcock A LIGHT VANE GEAR
By J. H. Cunningham, M.I.Mech.E
Designed specially for MODEL MAKER'S

By J. H. Cunningham, M.I.Mech.E
Sun and planet gears in a movable carriage.

3/6

2/6 HIGHLANDER VANE

GEAR Mk II By B. H. Priest Suitable in size for A class boats and 10 Raters this highly successful gear com-A simple self-tacking gear that requires bines robustness with accuracy and chromium plated brass, it is, when complete, an impressive and highly efficient piece of equipment. (Not illustrated). \* \* \* \*

> VANE STEERING GEARS By A. Wilcock This booklet comprises a reprint of the "Notes for the Novice Yachtsman" series which ran throughout 1965 in "Model Boats" and dealt with all types of vane gear in detail, plus basic sailing, sail setting, automatic steering history, etc. Invaluable for all interested in sailing models.

RADIO CONTROLLED YACHTS-INFORMATION LEAFLET

A booklet no radio yacht enthusiast or anyone contemplating a radio controlled yacht should be without. It combines the ideas, tips, and individual systems of 3 experts in this field, viz. J. Gascoigne, N. F. Armstrong and J. C. Hogg, set down in well illustrated, easy to follow sections. plan, etc., to show location of remaining An invaluable booklet to beginner and expert alike. MM/727 3/6

OTHER PLANS . . .

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MODEL & ALLIED PUBLICATIONS LTD., 13/35 Bridge Street, Hemel Hempstead, Herts.

#### **BOAT RADIO CONTROL**

Radio control of model boats is probably In addition, equipment weight is not so the most rapidly expanding branch of both critical (except where high speeds are the Weather is far less of a consideration than model.

radio and model power boats, since there aim) and a failure or loss of control does are so many advantages and so few snags. not so often result in a lost or broken

it is for aircraft, space required is far less, and many stretches of water are to be channel and multi-channel equipment. The found in or near towns which are excellent simplest and least expensive is single for boating and do not involve long trips. channel, and in its most basic application

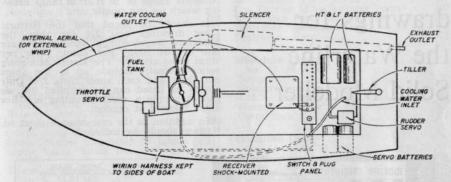
this gear is used just as a switch to not work from - or will damage - alloperate a sequence of rudder movements transistor relayless receivers. Transistor by means of an escapement or actuator.

powered model could use a clockwork escapement with the addition of a contact breaker to give stop (or half speed) in one of the neutral positions. This contact breaker could be a contact maker used to switch another escapement in. Several operations can, in fact, be introduced by such additions, but the limiting factor is usually the memory of the operator or the number of turns possible on the clockwork motor.

Electric escapements (or actuators) are available, which do the same job. Care must be taken in selecting equipment, however, since some electric actuators will

receivers, too, may be sensitive to inter-A typical installation in an electric ference from motor sparking, and may not work if mounted close to the main motor. Your dealer should be able to advise on suitable equipment.

Rudder movement is divided into four classes-sequential, (sometimes called "escapement-only" or, more simply, "bang-bang rudder"), optional or selective (full rudder, left or right at will), progres-'escapement-only" sive (the rudder moves gradually and may be stopped at any intermediate position; this is usually movable in either direction, i.e. optional progressive), and propor-tional, in which the rudder "follows" the control exactly and can be moved to any position from any position.



four is made. The receiver responds to the appropriate tone sent, and the four tones normally provide optional selfneutralising left and right rudder and progressive open and close throttle.

The sketch shows a typical installation for a four-channel receiver in a model fitted with an i.c. engine with throttle, and most of the important points are illustrated. On the engine side, note fuel tank -ahead of but close to the motor, fuel level when full approximately level with intake spray-bar. This position is the best under normal circumstances. Note water tubes, from intake behind prop, through cylinder jacket, and out over side or through transom. A silencer is essential and should act as an oil trap, to prevent fouling the water.

packed in foam rubber in a plastic box, so and many hours of enjoyable running.

The average boat, especially as used in that high frequency vibration is damped competition, is fitted with four-channel out. Everything should be slightly off the radio. In normal multi-channel equipment floor of the boat to prevent damage from the single-channel carrier wave is sent water in the bilges. Invisible soldered continually and when a control is selected, joints, such as under the switch panel etc., a "tone" is superimposed on the carrier. should be boxed in to prevent splashing Up to ten different tones can be sent with and subsequent corrosion. Wires should be most model radio outfits but with a four- anchored near joints, so that an inadvertchannel set provision for selecting only ent pull is not taken by the joint. All wires should be braided or slipped through tubing and tucked neatly out of the way along the sides of the boat. A whip aerial is slightly more efficient but less convenient; keep the aerial away from HT wires and electric motors. Insulation is desirable between the tiller and the rudder actuator or servo, a plastic link being best. Adjustment must be provided in the tiller linkwork so that the rudder can be neutralised precisely. A clutch on rudder and, particularly, throttle servo is an advantage.

Clean and check the boat after each day's running, and check everything immediately before the next outing, particularly batteries-a little damp can ruin a battery or corrode a vital contact. By following these simple rules, plus the rules Radio-wise, the receiver should be of good soldering and the instructions mounted on a block of foam rubber or supplied by the radio manufacturer, you suspended by springs or rubber bands, or can expect long and trouble-free service

# marine miniatures P.A. SWEET

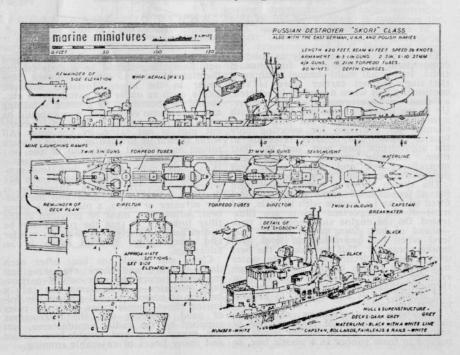
A series of drawings for the Waterline Solid Modeller

#### SHIP DRAWINGS AT 50 ft. - 1 in.

The drawings listed overleaf comprise the complete range of 50 ft.-1 in. ship drawing which we can supply.

It should be noted that the Historic Liner drawings cost 2/6 per ship; the Miniature Merchantmen series may have one or two ships per sheet, price per sheet being also 2/6. The Marine Miniature series normally include up to five ships per sheet and each sheet costs 2/6. Only sheets as listed can be supplied i.e. we cannot supply a sheet including any five ships selected at random.

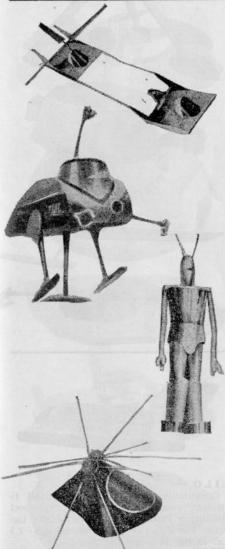
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An ingenious pair of models of simple balsa construction, 'Slider' being an airscrew driven hydroplane for up to 1 c.c. motors to which is attached an identical hull fitted with an autogyro unit. This rises clear of the water when the model is in action. MM/454

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MM/406

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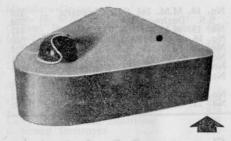
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This saucer is amphibious and will perform equally well on land or water. Simple construction, mainly of balsa. 13 in. in diameter, for up to 0.75 c.c. motors. MM/390 \* 3/6



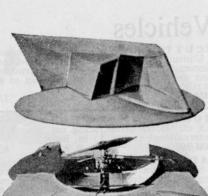




LILO

Construction of this scalish model is straightforward and features a novel stabilising curtain and a multi-blade fan drive. For diesel motors from 0.8 c.c.- 1.5 c.c. 15 ins. in length.

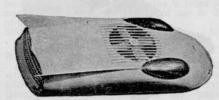
MM/755 \*\* \*\* 5/-











Hovercraft

HOVERER

A model of futuristic design employing balsa for the main structure with ply engine mount, etc. Suitable for diesel and glow engines of 1½-3½ c.c. Diameter 24 in. MM/591 \* \* \* 5/-

HOVERPLATE
This simple ductless machine follows basic hovering principles and is a cushion craft of amusing performance. Can be used over water or any flat surface and, simple though it is, you will learn a lot from this model. 18 in. long, 1-1½ c.c.

motors. MM/717 \* \* \* 6/-

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MM/614 \* \* 3/-

HOVERTRON II

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MM/735 \* 7/6

S.R.N.-1
A semi-scale model hovercraft. Powered by any 2½-3½ c.c. engine. The model gives a spectacular performance over land or water, hovering at 1-2 in., while moving forward at 5-10 m.p.h. Suitable for R/C. Size 40 in. x 30 in., all-balsa.

MM/583 BUZZIN BEE

A simple all-balsa hovercraft for tethered running using a 12 v. electric OO railway motor. An attractive project for the inodeller who prefers the unusual type of model. L.O.A. 14½ in.

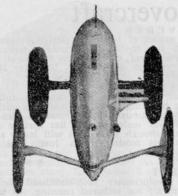
MM/602 \* 3/6

HUMMING BIRD

Radio controlled or free running hover vehicle. Simple construction of balsa with hardwood mounts, etc. Any engine of 5-1 c.c. Basic size 10 in. square. R/C if required carried on outriggers. Lifting capacity 27 ozs.

MM/570 \*\* 5/-







#### Vehicles

MM/165

MM/255

SCUTTLER By Vic Smeed Unusual airscrew driven car for .5-1 c.c. motors, using all-balsa-ply construction and any 2-2½ in. wheels. Speeds up to 40 m.p.h. on tethered circuit. MM/325 2/6

MOORE NUMBER ELEVEN 5 c.c. Bevel drive racing car placed in

International events. 15 in. long. ADDA By Bertil Beckman Swedish record-holding car for 2.5 c.c. PADDA engines of advanced construction, using two cast pans. Conforms to all M.C.A. rules. Similar to top American with trailing knife-edge rear wheels, etc. rules. Similar to top American models

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NOVICE'S 50 A miniature model car especially designed to utilise ½ c.c. engines, For cable operation. Wood body, suitable for begin-ner to attempt. With two-page instruction

GERMAN ARMOURED CAR By M. A. Hundleby A 9½ ins. long scale model of a German S.D. K.F.Z. 231 8 rad Armoured Car for either electric or rubber drive. Plan is detailed down to the last item; pickaxe and axe, tool boxes, etc., are all there. Construction is not difficult and the whole is an interesting project.

By Peter Holland SNO-CAT Unusual caterpillar model of Trans-Antarctic Expedition vehicle, using simple electric drive and suitable for miniaturised radio. Scale 3 in. to the foot, length 14 in. Simple construction throughout.
MM/529 \* \*





THE KITTEN

Overall length 12½ in.; Overall width 6½ in.; Wheelbase 9½ in.; Track 5 in.; Tyres 2½ in. dia. For engines 75 to 2.4 c.c. MM/168

DATPRINCE A very simple race car design of Japanese origin for Javelin or similar 1-11 c.c. motors. Commercial parts for motor adaption are available, pan and body, etc., are all wood. MM/385

OFFENHAUSER
SPEEDWAY CAR
Overall length 15 in.; Overall width 74 in.; Wheelbase 9 in.; Track 6½ in.; Tyres 3 in. dia. Built for M.G.M. Film Model Building Contest. Elegant finish, clutch driven. For E.D. Bee 1 c.c. or similar MM/199 2/6

M. G. MIDGET TD SERIES Scale model of a popular car designed for 1½ c.c. engines, Wheelbase 7½ in., track 3½ in. Fully detailed with development of metal bodywork. Bevel drive to rear wheel with clutch detail. MM/277

G. M. FIREBIRD A simple 12 in. model of this intriguing jet powered car, constructed from hollow block balsa and accommodating a Jetex 50 and augmenter tube. Speeds of up to 20 m.p.h. tethered or free. 1/6

RECOVERY An unusual amphibian model with both wheels and waterscrew continually driven with 1-2 c.c. motor. Construction mostly from sheet balsa. Suitable for radio control adaptation. Lo.a. 19 in. MM/554



RECOVERY





CISITALIA Overall length 16½ in.; Overall width 8½ in.; Wheelbase 12 in.; Track 7½ in.; Tyres 3½ in. dia. Employs rubber drive. Ideal for beginners or those without engines available. Cheap to build, easy to construct and run. MM/158 By Vic Smeed SCORCHER An ultra-simple car model for 1-1.5 c.c. engines, using Meccano gears and inexpensive wheels. Total cost (less engine) roughly 30/-.

MM/448

\* 3/-MERCEDES 2½ c.c.

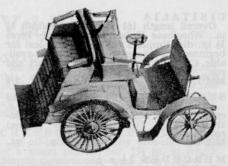
Both Rheims and Nurburg type Mercedes in the same scale on the same plan. Simple construction with any standard bevel gears, etc. Both models complete on one drawing. MM/391 MECCANO CHASSIS A simple plan showing the construction of a chassis from standard Meccano parts to suit up to 1 c.c. diesel. An Aston Martin body to fit (length 101 in.) is also detailed on the plan. For tethered or, where space permits, free running. MM/592 DELLOW TYPE SPORTS CAR Miniature electrically powered model, highly authentic detail, realistic operation. Soldered tinplate construction. Length 61 in.; Overall width 21 in. MERCEDES BENZ 300-SL A radio-controlled scale car using a belt-A radio-controlled scale car using a defined rive 2.5 c.c. motor, may also be electric-powered. Radio installation details (not circuit) illustrated on plan. Sheet metal pan, balsa coachwork. Length 17 in.

MM/322

\* \* \* 3/6 SIMPLICITY By G. H. Deason Novel electric traction engine to free-lance design, using Mighty Midget or similar motor. Overall length 101 in. All card construction. MM/392



Please ensure that your order is clearly stated and accompanied by the correct remittance and your name and full address in BLOCK LETTERS.



1898 BENZ DOGCART

By G. H. Deason A simple card and balsa working model employing any stock small electric motor. Entirely self-contained and amusing both in construction and performance. MM/387

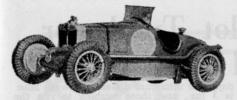
By Ken Procter Designed for 2½ c.c. twin-shaft engines (Oliver, etc.). A "kitchen table" version of this British Racing design. Wooden body. Simple construction for those lacking workshop facilities. MM/209

1900 DE DION

A really outstanding working model veteran car for .5 c.c. diesels. All metal construction, entailing some brazing, etc. MM/375

STUTZ BEARCAT

Simplified scale model of a popular vintage American roadster. Excellent as a decoration to be incorporated with a tablelamp, etc. MM/324



M. G. MAGNETTE

Overall length 15 in.; Overall width 7 in.; Wheelbase 10 in.; Track 6 in.; Tyres 3 in. dia. An intermediate model based on Bira's racing car used in 1934. Simple construction. For engines 1-2 c.c. MM/164

VOLKSWAGEN

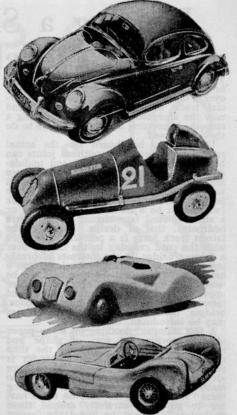
Simple all-wood scale-model of the wellknown German car, designed for electric propulsion. Block balsa body-work, etc. 15 in. overall length. MM/299

AUSTIN SINGLE SEATER
Overall length 12½ in.; Overall width 5½
in. Wheelbase 8½ in.; Track 4½ in.; Tyres
2½ in. dia. Easily built and satisfactory to
run. For engines 1-3 c.c. MM/166

**JETMOBILE** 

Overall length 11½ in.; Overall width 5½ in.; Track 4 in.; Wheelbase 7 in.; Tyres 2 in. dia. Jetex propelled. Fast and simple to build. MM/167

LOTUS Mk. 9 By Vic Smeed 1/12 scale model for ½-1½ c.c. engines, for rail or cable track. Simple construction with wooden body and dural sheet chassis. Drive through bevel gears.



How to Solder

MOST MODELS call for only the simplest of tools and can be built throughout with razor blade, glass-paper and pliers—until it comes to soldering. Even if it be only wheel retaining washers, most designs incorporate some metal-to-metal join which

using a clean soldering bit. Essential, also, is an iron suitable for the job—it's no good trying to solder 10 g. wire with a 10 d. instrument iron!

Soldering doesn't just mean placing the two parts side by side and dropping a blob of molten metal over them. When the bit is really hot—so that the solder melts instantly on contact, but not so hot that it runs off—it should be damped with a little flux and a small amount of solder wiped on. The cleaned parts should then have a little flux applied and the iron used to tin them; this means that a thin coat of solder is run on to the surface can only be made by solder.

The secret of soldering is cleanliness, and, for model work, the use of a flux such as "killed spirits" (Baker's fluid), in contact, when its heat will fuse the such as "killed spirits" (Baker's fluid), in contact, when its heat will fuse the two tinning coats together and leave a clean, sound joint. It will be obvious that the metals to be joined until they are bright and free from grease, and also form a good bond between the surface of To form a fillet of solder, the iron should the metal and the solder.

The function of the flux is rather complex, but, briefly, it is this. Solder "sticks" metal by melting into its surface, i.e. by forming a very thin skin of alloy between the metal and the body of the solder. The solder cannot fuse with the oxide of the metal, and the surface to be handled is always oxydised (a) by the action of the air (hence cleaning off thoroughly) and (b) by the heat from the iron. The flux is an agent which, broadly, enables the metal oxide to fuse with the solder, rather in the same way as soap enables a certain mixing of grease and water to take place. Understanding this simple principle is a

big aid to sound soldering.
When binding a joint, thin copper wire or 15 amp, fuse wire should be used, and this also should be cleaned thoroughly. The parts to be joined should be tinned zinc chloride. Do not use anything before assembly, then bound and heated. methylated spirits with this chemical.

be held beneath the work and the solder stick applied on top. To localise heat, lay the work on heavy metal blocks, but don't attempt to solder actually over a block, as too much heat is conducted away. Use a wooden support at the point of working. Heat shunts, to prevent heat travelling to another previously soldered part, or damaging a delicate radio part, can be metal clips, wet rag wrapped round, blocks of metal clamped on, etc.—anything that will absorb heat and prevent it from travelling. Always clean a joint thoroughly after using a flux as mentioned above, and do not use this type of flux for electrical joints; these should be made with Fluxite or other non-corrosive flux. For long joins cover a little anhydrous zinc chloride with methylated spirit and paint on. The meths. will evaporate to leave an even coat of zinc chloride. Do not use anything but

# Building a Slot Track for Your Model Race Cars

over a circuit put together from commercial track sections is indisputable, and now the accepted method for producing a smooth, interesting and fair track is to do the job oneself.

The popular way of securing track to baseboard is by means of battens (½ in. by 1 in. strip hardwood) with slots cut into the second to accept the slot guide of the cars.

road surface, long runs with no joints can be achieved, smooth banking and undulations designed, and what's probably more important, the circuit can be custom built to fit a required space. This leads us to the first problem in building any sort of track (whether it be a 200 ft. 6 lane monster or a short 50 ft. 2 lane circuit for the spare bedroom), that of design. Basically, the fairest track form is a perfect figure eight with the road crossing in the middle over a fly-over bridge. In the interests of breaking the monotony of such a basic circuit, a undulations. road surface, long runs with no joints can wound up to if not full revs, somewhere approaching this, and as many features of interest, e.g., banking, hills, swoops, bridges, mountain sections, even chicanes may be introduced.

Undurations.

The cutting of curved track sections from hardboard often causes some difficulty and a safe way is to design the circuit so that all curves are of constant radius. This then makes the routing and the control of the cutting of curved track sections from hardboard often causes some difficulty and a safe way is to design the routing and the cutting of curved track sections from hardboard often causes some difficulty and a safe way is to design the routing and the cutting of curved track sections from hardboard often causes some difficulty and a safe way is to design the bridges, mountain sections, even chicanes are considered.

may be introduced.

A few minutes' doodling on scrap paper should provide the sort of shape you require—but keep in mind all the time that an important thing to watch for is physically equal lap lengths. Make sure also that particular lanes don't have too

bring to light an important fault which you may have missed which can be ironed out by a slight design change before any expensive timber has been cut. Now down to construction.

First requirement for any track is a firm base of the correct height above the ground. For comfortable driver operation and marshalling this would seem to be between 3 ft. and 4 ft. off the ground and should comprise a table (or number of tables) with a good, firm base board fixed onto them. For the roadway itself, in hardboard, available now in large, merchant from whom you buy it. Nowa- simply making one side of the frame

THE SUPERIORITY of a purpose built, days, the minimum distance between lane home made circuit for club or private use is 3 ins., and those wishing to run the over a circuit put together from commer-larger 1/24th scale models together with

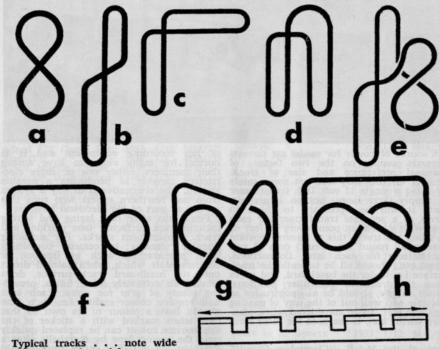
these to accept the slot guide of the cars.

These battens can be pinned or glued (or both) to the baseboard at a minimum of

with the use of a power saw mounted on a central pivot. Slightly more ambitious but physically equal lap lengths. Make sure also that particular lanes don't have too many tight radii to negotiate thus making them "slow lanes", the cars on them having to go more carefully around these obstacles. This may be found the largest problem of all and should be tackled patiently, re-designing all the time until a fair solution is reached. problem of all and should be tackled stort themselves can how be marked onto patiently, re-designing all the time until a fair solution is reached.

Having arrived at the final design, a small scale model of the finished track can be built using ordinary stiff notepaper and balsa wood strip for the supports for inclines, bridges etc. If done, this may be supported the slots closing up as the rather brings to light an important fault which less than a proper to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots can be cut down again by hand using the pad saw. When pinning such sections on the baseboard, a certain amount of brute force will be required to prevent the slots closing up as the rather proper to great the slots can be cut down again by hand using the pad saw. When pinning such sections on the baseboard, a certain amount of brute force will be required to great the slots closing up as the rather proper to great the slots closing up as the rather proper to great the slots can be cut down again by hand using the pad saw. When pinning such sections on the baseboard, a certain amount of brute force will be required to great the slots can be cut down again by hand using the pad saw. When pinning such sections on the baseboard, a certain amount of brute force will be required to great the slots can be cut down again by hand using the pad saw. When pinning such sections on the baseboard, a certain amount of brute force will be required to great the slots can be cut down again by hand using the pad saw. When pinning such sections on the baseboard, a certain amount of brute force will be required to great the slots are properly to great the slot less than 1 in. cuts attempt to overlap but it has been found completely practical to force strips down so that an accurate in, slot is maintained right through the curve. One would expect buckling of the track due to this, but we repeat, this system has been tried and has proved wholly successful.

The climb up to hills or bridges over base board level track can be as steep as you require, but remember that the track and should comprise a table (or number you require, but remember that the track of tables) with a good, firm base board will require support at constant 9 in. fixed onto them. For the roadway itself, in the air". For this, 1 in the air in the air". For this, 2 in the popular answer. For the straight sections, it is possible to get the hardboard sliced into strips of the required size by the timber same way, banking can be embraced by the frame.



sides in section, right.

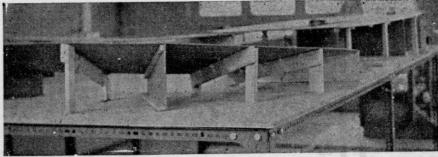
higher than the other-just like a wedge.

and all section joints are flat giving a completely smooth transition, thoughts can be turned to initial scenic work and an idea of what the completed circuit will look like should be formulated. Crumpled newspaper, old boxes, old tins, hessian or sacking, wire chicken mesh and cardboard sacking, wire chicken mesh and cardboard are all useful items when tackling scenery and hills, banks, valleys etc can be produced by laying the wire over collections of such assorted rubbish, then plastering with hessian strip soaked in plaster over this. It will be found that any required feature of landscape can be easily produced. Powder paint and water are an accepted method of colouring scenery and these should be applied initially with a fairly slapdash attitude introducing more care into final coats to give light and shade etc., and the impression of grass or earth as the case may be. earth as the case may be.

One of the largest jobs (particularly if yours is a 6 or 8 lane circuit) will be the higher than the other—just like a wedge.

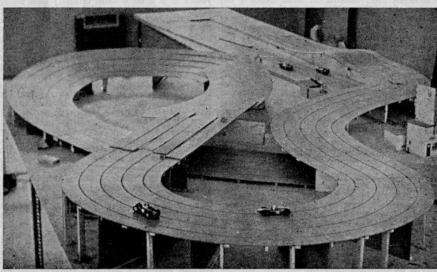
Bridges etc., should be firm using † in. timber for the sides and their design should be as modern as possible taking a tip from the bridge styles of some of the new motorways. Avoid building bridges too low—remember that it will be required that a marshall can get his hand under a bridge to replace a crashed car.

Once the basic track is completely laid, and all section joints are flat giving a contact adhesive can be relied upon to contact adhesive can be relied upon to behave itself. The accepted method for tape laying is to attack one lane at a time, with part of the lane at a time, with part of the tape laying team working ahead with adhesive and the rest moving slowly putting the tapes in place. The best method of coaxing straight tape around tight bends is to hold the inner edge down a little at a time and stretch the outer edge, if this is not done the inner edge wrinkles and may not adhere properly. Tape on the bends must be really well fixed; for the inside edge of the outer tape receives much punishment when the car de-slots It is a good idea to when the car de-slots It is a good idea to go over newly cemented tapes with a roller applying as much pressure as the construction of the circuit will stand (which should be a lot), to make perfectly certain that they will dry smooth and flat.



A source of power for model car circuits depends mainly on the two factors of personal preference and size of track. Smaller circuits may well get away safely by using a single 12 volt D.C. transformer to supply three lanes, but on larger circuits it will be necessary to think in terms of a separate transformer for each lane with a pick up point every 30 feet or so along the track (this to ensure constant current all round the circuit) or a 12 volt car battery for each lane. Connections, joints etc., should all be beneath the track surface i.e. under the baseboard, and wires from the track to controller positions, leaving an extremely gritty finish, provid-

from the track to controller positions, leaving an extremely gritty finish, providpower supply, should be as unobtrusive as 
possible and well out of the way of passing 
legs and feet. To be considered when planling writing at a line baseboard, and writes 
the track to controller positions, leaving an extremely gritty finish, providment for the track surface, these 
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from th ning wiring etc., is the need for some form cars when marked with a sticker of the appropriate colour can be replaced quickly onto the correct lane by marshalls after a Part of the M.A.P. "Clarendon Circuit" crash or flip out. The entire track should under construction, showing battens under be marked out in tenths of laps and banked section above and general view arrows or similar can be marked direct onto the road surface with a felt pen.



## **Prototype Car Plans**

PLANS AT 2/6 PED CAD

This series covers a representative selection of classic and modern racing and sports-racing cars, interesting modern, vintage and veteran types to suit all tastes. Plans comprise accurate scale three or four-view outline drawings and are particularly suitable for the solid scale enthusiast.

PLANS AT 2/6 PER CA	IR.						
A.C. Aceca A/Romeo Disco Volant	1955 e	man ex	MM/438	Ferrari 4½ L. Ferrari F.2. Ferrari 2½ L. G.P.	1950 1952	1/12 1/12	MM/239 MM/262
A/Romeo P3 Monoposto Alfa Romeo 158	1953 1932 1946	1/8 1/8 1/8	MM/283 MM/132 MM/184	Standard Model	1958	1/10	MM/360 MM/584
A/Romeo 6c Gran Sport Allard J2X Comp 2-str.	1925 1952	1/12 1/10	MM/397 MM/227	Ferrari Testa Rossa Ferrari 555 Supar	1958	1/12	MM/517
Alta G.P. Aston Martin Ulster A/Martin DB2 Saloon	1949 1936 1949	1/8 1/8 1/10	MM/139 MM/207 MM/224	Ferrari Testa Rossa Ferrari 555 Super Squalo Ferrari F.1. Ford Zephyr Ford Model T	1955 1961	1/12 1/10	MM/707 MM/658
Aston Martin DB4 A/Martin DBR1/300	1958 1958	1/10 1/10	MM/628 MM/527	Ford Zephyr Ford Model T Fordson Major Tractor	1953 1922 1055	1/10 1/12 1/10	MM/275 MM/373
	1959	1/12	MM/562 MM/205			10	MM/414
Austin 744 c.c. O.H.C. Austin Ulster Austin Healey Auto Union G.P.	1929 1955	1/12 1/12	MM/288 MM/341	G.M. Firebird Gordini 2 L.	1955	1/10 1/12	MM/371 MM/259
Auto Union G.P. A/Union 6L Type C.	1938 1934	1/8 1/12	MM/134 MM/569	H.R.G. 1½ L. H.W.M. F.2.	1937 1951	1/8 1/12	MM/200 MM/257
Bentley 4½ L. Le Mans Bluebird C.N.7	1928 1960	1/10 1/10	MM/202 MM/618			1/12	MM/298
B.M.W. Record Sidecar	1955	1/10 1/8	MM/425 MM/196	Jaguar 3½ L. Mk. VII Jaguar XK 120 Jaguar D. Type Jaguar Type E	1948	1/8 1/10	MM/171 MM/519
B.R.M.	1956 1959	1/8 1/12	MM/453 MM/555 MM/615	Kieft 1½ L. Sports		1/12	MM/643 MM/290
B.R.M. F1 (R.Eng.) Bugatti 35B	1960 1927	1/12 1/8 1/8	MM/615 MM/128 MM/210	Lago Talbot & I. G.P.	1047	1/8	MM/179
B.R.M. F1 (R.Eng.) Bugatti 35B Bugatti 40 Bugatti 3.3 L. G.P. Bugatti 251 F.1	1934 1956	1/8 1/10	MM/243 MM/633	Lancia Ferrari F.1 Lotus F.1 Lotus XV Lotus 20	1956 1958 1958	1/12 1/12 1/12	MM/509 MM/532 MM/534
Cisitalia G.P.	1948	1/12	MM/691			1/12	MM/668
Cisitalia G.P. Citroen Cloverleaf Connaught Comp. 2 Str.	1922 1949	1/10	MM/411 MM/194	Maserati 1½ L. 6c Maserati 4CLT Maserati 250F Maserati Type 61 Birdcage	1936 1948	1/8 1/8	MM/145 MM/177
Connaught Dart Connaught F2 Cooper Climax Cooper Record Car Cooper Bristol Cooper Bristol Mk. II	1957 1952	1/12	MM/557 MM/246	Maserati Type 61	1957	1/12	MM/548 MM/697
Cooper Record Car Cooper Bristol	1951	1/10	MM/514 MM/230 MM/249	Birdcage Mercedes Benz 1½ L. Mercedes	1939	1/8 1/10	MM/149 MM/186
Cooper Bristol Mk. Il Cooper Norton	1953	1/12	MM/280	Mercedes 300 SL Mercedes Benz G.P.	1955 1938	1/12 1/8	MM/388 MM/130
Cooper Norton Mk. VII Cooper 1100	1953	1/12	MM287 MM/421	Mercedes Benz 2½ I. G.P. Mercedes Benz 163	1954 1939	1/12 1/12	MM/345 MM/623
D.A. Lubricant Special	1958	1/12	MM/558	Mercer Raceabout Mercedes Benz W. 196	1910 1954	1/12 1/12	MM/368 MM/674
Daimler 3.P.250	1886 1960	1/12 1/12	MM/477 MM/639	Mercedes B. 300 SLR M.G. Gardener	1955	1/12	MM/648
Darracq Delage 11 L. G.P.	1904	1/12	MM/315 MM/140	M.G. Midget T.D. M.G.A.	1950	1/10 1/8 1/8	MM/131 MM/213 MM/404
D.A. Lubricant Special Daimler Daimler 3.F.250 Darracq Delage 1½ L. G.P. Dellow Mk. V Dyna Panhard Jnr.	1954	1/9	MM/383 MM/333	M.G. Gardener Record Car 19 M.G. Midget T.D. M.G.A. M.G. EX181 Morris Bullnose	1957 924	1/8 1/12	MM/671 MM/502
E.R.A. D Type E.R.A. E Type	1938 1938	1/10 1/8	MM/129 MM/133	Novi Special	1947	1/12	MM/379
Ferguson F.1. Ferrari 125 G.P.	1961 1949	1/12 1/8	MM/661 MM/197	Novi Special Pegaso Porsche Spyder Porsche F.2	1953 1958 1959	1/12 1/12 1/12	MM/328 MM/525 MM/571
		100000000000000000000000000000000000000	ALCOHOLD STORY	The state of the s		~,	141141 311

Railton Special	1938 1/16 1904 1/12 1950 1/8	MM/192 MM/399	MM/596	Cooper Climax 1958
Reo Rhiando Trimax	1950 1/8	MM/198	MM/597	Aston Martin F.1 1959 Jaguar Type D Ferrari Testa Rossa D. A. Lubricant Special B.R.M. 1959 Vanwall 1958 Ferrari Dino (basic) 1958 B.R.M. 1956 Connaught Dart
Rolls Royce Silver Ghost	1907 1/12 1927 1/12	MM291	MM/598	D. A. Lubricant Special
Brooklands Riley			MM/599	Vanwall 1958
Scarab F.1 Sunbeam G.P.	1960 1/12 1924 1/8 1956 1/8 1937 1/12 1951 1/12	MM/604 MM/273	MM/605	Ferrari Dino (basic) 1958 B.R.M. 1956
Sunbeam Rapier	1956 1/8	MM/441 MM/193	MM/678	
S.S.100 Sunbeam Talbot 90	1951 1/12	MM/237	MM/685	F.1 Ferguson 1961 Lotus 20 1961 Ferrari F.1
Sunbeam Alpine Sports	1953 1/12 1959 1/8	MM/297		Bugatti 251
Sunbeam Alpine Sunbeam 350 h.p.	1953 1/12 1959 1/8 1924 1/12	MM/681 MM/163	MM/686	1960 B.R.M.
		MM/359	MM/687	Aston Martin DB4 Daimler S.P. 250
Triumph T.R.2 Triumph T.R.4	1955 1/8 1962 1/8	MM/710	MM/688	Bugatti 251 F.1 Scarab 1960 B.R.M. Aston Martin DB4 Daimler S.P. 250 Ferrari Berlinetta E. Type Jaguar Mercedes Benz 300 SLR Mercedes Benz 38/250 SSK Mercedes Benz W.196 Cisitalia G.P. Sunbeam Alpine
Vanwall	1956 1/8	MM/446	MM/729	Mercedes Benz 300 SLR
Vanwall Vauxhall	1956 1/8 .958 1/12 1905 1/12	MM/552 MM/474	MM/730	Mercedes Benz W.196
Vauxhall 30/98E	1913 1/12	MM/351	MM/731	Cisitalia G.P. Sunbeam Alpine
1/32 SCALE: PRICE 2		EET	MM/732	Triumph TR4 Maserati 61 Birdcage
NOTE that each sheet TWO Cars*	contains		MM/733	Ferrari 555 Super Squalo
MM/457 M.G. Type Mercedes Be	M.G.A. enz 300 SL			1962 F1 Porsche
TWO Cars* MM/457 M.G. Type Mercedes Be MM/458 Triumph T.F. Austin Heale	1.2.		MM/734	1962 Lotus 25
MM/458 Triumph 1.F. Austin Heale MM/459 B.R.M. 2½ L. Cooper 1100 MM/460 Ferrari 2½ L. Mercedes Be	G.P.		MM/735	1962 Cooper Austin FJ 1961 Lotus 4-cvl. F1
MM/460 Ferrari 21 L	. G.P.		MM/766	Harvey Aluminum Spl.
Mercedes Be MM/461 Vanwall	nz 2½ L. G.I	· Timesel	MM/767	1935 A/Romeo Bimotore
Connaught I	2.2		MM/768	1934 Maserati 2.9 G.P. 1963 F1 V6 Ferrari
MM/484 1904 Darrace Ford Model	T.	STATE OF STATE	MM/769	1963 F1 A.T.S. 1955 Maserati 300S Sports
MM/488 H.W.M. F.2. Lago Talbot MM/489 Mercedes 19	41 L. G.P.		MM/770	1962 Maserati 151 G.T.
MM/489 Mercedes 19 Auto Union	38 G.P. 1938 G.P.			1935 M/Benz W25 B
MM/490 ERA D Typ	e 158		MM/771	1914 44 L M/Benz 1913 Black Bess Bugatti
MM/491 Bugatti 3.3 H.R.G. 11 L	L. G.P.		MM/772	1922 Vauxhall T.T. 1911 Vauxhall Prince Henry
MM/492 Maserati 11	L. G.P.	1	MM/773	Mercedes Benz W.196 Cisitalia G.P. Sunbeam Alpine Triumph TR4 Maserati 61 Birdcage Ferrari 555 Super Squalo 1962 V8 B.R.M. 1962 F1 Porsche 1962 Lotus 25 1962 Cooper Austin FJ 1961 Lotus 4-cyl. F1 Harvey Aluminum Spl. Lotus Ford 1963 1935 A/Romeo Bimotore 1934 Maserati 2.9 G.P. 1963 F1 A.T.S. 1955 Maserati 300S Sports 1962 Maserati 151 G.T. 1937 Mercedes Benz W.125 G.P. 1938 M/Benz W25 B 1914 44 L. M/Benz 1913 Black Bess Bugatti 1922 Vauxhall T.T. 1911 Vauxhall Prince Henry 1963 Chevrolet Corvette Stingray, G.T. & Sports Versions
Alta G.P.		1	MM/774	1962 2 L. Porsche Sports Coupe
MM/493 Ferrari 41 I Maserati 4C MM/495 A/Romeo P	LT/48 Monoposto		MM/775	1963 Chevrolet Corvette Stingray, G.T. & Sports Versions 1962 2 L. Porsche Sports Coupe 1962 Tojeiro Climax 1926 3 L. Bentley 1963 Rover B.R.M. 1963 F1 Brabham 1964 F1 Cooper
Bugatti 45B			MM/776	1963 Kover B.K.M. 1963 F1 Brabham
MM/496 Sunbeam G. Delage 11 L	G.P.		MM/777	1905 F1 Cooper
MM/496 Sunbeam G. Delage 11 L MM/497 Rolls-Royce Mercer Race MM/498 Vauxhall 30	eabout	FEE		1963 Lola Mk. 6 G.T.
MM/498 Vauxhall 30 Bentley 44	/98E L. Le Mans		MM/778	1910 Blitzen Beuz 1922 3L Benz Tropfenwagen
MM/499 Novi Specia	1		MM/785	1963 V8 Ferrari
MM/499 Vatkhan 30 Bentley 41 MM/499 Novi Specia Gordini 2 L MM/521 Ferrari Din Lancia Ferr	246		MM/843	1961 Allard Dragster 1963 Saab F.J.
MM/522 Cooper Clin Lancia D.50 MM/593 A/Martin D Porsche Spy MM/594 Ferrari Dine	an F.I		MM/844	1964 Porsche 904 GT
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MM/594 Perrari Dine	der 718		MM/846	1928 MG M Type 1934 Bugatti Type 57 SC 1921 Bugatti Brescia Type 13
Lotus F.1 1	758 Type C 19	38	MM/849	1921 Bugatti Brescia Type 13 1964 Lotus 30
MM/594 Ferrari Dine Lotus F.1 II MM/595 A/Union 6 I Porsche F.2	1958	1 -21   - 1   1   1   1   1   1   1   1   1	,	1961 Lotus 18

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	S/L Brooklands Car	MM/971 1965 Chaparral 2E
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#### MODEL CAR RACING STANDARDS AND RULES

An extract from the E.C.R.A. Handbook.

#### TRACK STANDARDS

- 1. The slot dimensions must be a minimum of # inch and a maximum of 3/16 in. wide and there must be one point on each lane where the depth of the slot does not exceed 3/16 in. The remainder of the slot may be open
- 2. The contact surfaces on each side of the slot must not be less that # in, or more than ½ in. in width (metal sprayed track excepted) and at all points on the track there must be pickup contact 3/16 in. from the centre of the slot.
- 3. Looking in the direction of travel the positive contact must be on the left of the slot and the negative on the
- 4. Clubs must provide accurate lap recording equipment without additional fittings to the cars being necessary.
- 5. Track voltage must not exceed 16 volts D.C. off load nor drop below 12 volts D.C. when each lane is drawing 4 amps per lane.
- 6. It is the responsibility of all clubs to ensure the minimum amount of A.C. 'ripple' in the power supply at the
- 7. Tracks must be wired for dynamic braking.
- 8. No personal external power supplies intended to enhance the performance. or improve the braking, of cars are permitted.
- 9. Controller plugs to be B.S. 546, 3-pin, 2-amp, wire as follows:'L' to controller wiper,
  'N' to controller resistance coil,
  - to controller brake terminal.
- 10. Clubs wishing to have a (third) lighting tape on their track should install it on the right hand side in the direction of travel so that the centre of the tape is ½ in. from the centre of the
- 11. for 24th scale racing the distance between lane centres must not be less than 3½ ins.

#### CAR STANDARDS—32nd Scale

- 1. All models to be built to 1/32nd scale of a full size prototype with a tolerance of plus or minus 1/16 in. in track and wheelbase. Bodies must also be within reasonable limits and a reasonable representation of the prototype. The onus of proof of dimensions rests with the competitor. The manufac-turers quoted dimensions with commercial kits are accepted as correct.
- The overall diameter of wheels (including tyres) must be to scale with a tolerance of plus or minus # in.
- 3. The maximum permitted tyre tread width (tyre on track) is ½ in., providing that:-
  - (a) track dimensions are as stated
  - in Para. 1 above,
    (b) tyres do not protrude outside the enveloping body or wings.
- 4. No car to exceed a maximum overall width of 21 in.
- 5. No projections downwards capable of guiding the car, other than the steering guide and pick-up are permitted.
- Maximum length of guide in slot, measured extreme front to extreme rear, must not exceed 1 in. nor must the part of the guide in the slot project, at any point, more than 1 in. for-ward or rearward of a straight line drawn between the centres of the front wheels.
- 7. All cars must carry clearly legible racing numbers in at least two places.
- 8. All cars must have transparent windscreens and windows where found on the prototype.
- All cars must start a race with a driver securely fixed and the 'driver' shall consist of a minimum of head. shoulders and arms.
- 10. All cars must be suppressed against TV interference.
- 11. It is recommended that cars should carry visible major appendages such as steering wheel, mirrors, exhaust pipes, identity badges, etc.
- 12. Clear plastic bodies must be painted.

Similar rules exist for 1/24th scale, competition running, etc., all in the E.C.R.A. Handbook.

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