

History of Superior Models

This section is dedicated to the memory of Ian 'John' Carter (1937 – 2002) who founded Superior, continuing and improving on the Authenticast tradition.

Abraham Slonim founded Comet Metal Products in 1919 as a die-casting company. In 1935 his sons, Joseph and Samuel joined the company. Originally located in Richmond Hills, Queens, New York, the company produced 10,000,000 models during WWII at a cost to the Federal Government of \$5,000,000. Their patented centrifugal casting process was registered as 'Authenticast' to indicate the accuracy of the models that were produced. The first thing required in the process is a 'master' model. In most cases, the actual building plans are used to make the models. Authenticast had access to all the US plans as well as the plans to British ships refitted in the US. Once the master is created, it is placed between two rubber or silicone disks. The disks are placed in a frame and then placed in a vulcanizer, a press that contains heating elements. The disks are squeezed together and heated. (This same process can also be used to make a grilled cheese sandwich!). The squeezing forces the rubber into all the nooks and crannies of the master. Heating the rubber hardens it to the consistency of a tire. The disks are now a mold; they are separated and gates or channels carved from the center to the cavities. The mold is then placed in a centrifugal casting machine where it is spun. Molten metal poured into the mold is forced into the cavities. The mold is allowed to cool for several minutes and the models removed. This 'Authenticast' process has been used for over 80 years.

Before WWII, the services tried producing their own recognition models to train observers and lookouts. Three days after Pearl Harbor, the Navy ordered 50,000 models and the other services soon followed. The factory ran 24 hours per day, seven days per week. Armed guards patrolled the area to protect the classified work. By 1950, Comet was a \$250,000 per year business employing 50 people. Commercial contracts were filled to make railroad models, parts for washing machines, dryers, safes, and automobile batteries. Special contracts were filled including replicating the 2,000,000 square foot plant of the Republic Aviation Corporation on Long Island. Built in ¼" scale, it included the vending machines. The original wall-type can opener was first made as a model in the Slonim factory for \$200. The inventor won the contract, paid \$1500 to Comet to produce 1500 copies and then distributed them as a promotional device.

Over the years, rumors exist, that instead of creating all the masters themselves, Authenticast would exchange castings for masters and continue to produce the castings. Despite rumors that they took over production from South Salem, whose most notable models were Japanese merchant ships, there does not seem to be any evidence that they did so. Indeed, 11 of the 16 South Salem ships are also included in the Authenticast Marus. The thinking that the SS ships were generic ships is not true.

In the 1950's the U.S. government ceased using models as a means of recognition training, and Comet concentrated on the hobby market. In 1962 Comet was sold to Jeff Bowen of Industrial Models who hired Ian 'John' Carter from New York to produce the models. John was born on the island of Granada and came to the US when he was nine. He attended school through 9th grade and entered the world of mold making under the tutelage of Bill Vollheim. John moved to Delaware and built the company over the next several years by concentrating on the ship models. Collectors such as Bill Nailes (John married his daughter Susie), Tom Stribling, Dick Pattee, Jack Rowe and Jack Jamieson helped determine what new ships should be added to the line. Permission was received from H.A.Framburg to reproduce their ships, several of which are still in the Superior line. Originally a lamp company, Framburg of Chicago, Ill. also obtained a government contract to make recognition models as they were configured in 1943 from the ONI Recognition Manuals. One of the best features of the Framburg's were the 40mm and 20mm mounts which soon appeared on all the Authenticast originals.

In 1965 Alnavco became the major distributor of the ship models. Model makers were in short supply then and now. (In 1950, Comet's top model makers earned \$17,000 per year!) Ed Schwam built wooden models from plans supplied by Chris Beilstein. These were sent to Taiwan where brass originals were made from the wooden models. The 'Taipei Brass' program produced the base models for the WWI ships and many others but required substantial rework. The Authenticast planes and tanks were sold to Duke Siegfried in the early 1970s. Around this time, Superior branched out into military miniatures, pewter, space ships, and figures for the fantasy collector and wargame market. Each of these markets was larger than the ship market, which produced proportionately less income. The complexity and detail of all of Superior's castings became quickly appreciated in the industry and John was recognized as THE master mold maker.

Examples of complex models included the 54mm scale Skoda Mortar (cast with rifling!) and the 1:35 Sheridan Tank for Chrysler and General Motors. With a small number of model makers and the size of the line and other ventures, the number of 1:1200s that could be produced decreased. The large Superior line of 1:2400 WWII and modern models was created quickly from 1975-85 and used the model maker's time. The last new 1:1200s produced in 1981 included the best of the conversions done by the collectors and wargamers that supported Superior. In 1983 Wayne Smith 'retired' to raise a family. In 1999 John retired from Superior due to health reasons and sold the ship models to Pete Paschall of Alnavco. With his family substantially raised, Wayne Smith agreed to come out of 'retirement' to upgrade the models and create new ones.

In the twelve years Alnavco has manufactured the Superior line, we have concentrated on upgrading the ships by removing secondaries of 5" and greater from the models and casting them separately. In addition to upgrading older models and issuing models out of production by other companies, Superior has created the vast "Fleet that Never Was", planned ships that were never completed. We continue to release Marus at regular intervals and have focused on detailing the latest offerings. The following list is an attempt to catalog the entire line along with the names of the model makers who produced the masters as well as the year they were released.

Authenticast models have been upgraded with AA guns from the Framburg line or newer AA guns created by John Carter or Wayne Smith. Those noted as upgraded have additional features. Rebuilt models have had deck hatching, ventilators, AA gun directors and in many cases, deck planking. Released is the year in which the ship was built or last updated. We are indebted to the late Mike Musser who contributed out of production models from his extensive collection so that others could enjoy their new availability. Mike also made many conversions whose patterns have been used to make new models.				
Model #	Name	Model Maker	Upgraded/Rebuilt?	Released
A501	CARD (CVE)	Authenticast		
A502	CASABLANCA (CVE)	Framburg	Rebuilt by J.Carter	
A503	SANGAMON (CVE)	Framburg		
A504	ENTERPRISE 1942	Ed Schwam		
A505	ENTERPRISE 1944	Framburg		
A506	ESSEX 1944	Authenticast	New model built by J.Carter	
A507	HORNET 1942	Ed Schwam		
A508	INDEPENDENCE (CVL)	Framburg		
A510	MIDWAY 1945	Authenticast		
A510A	CV-A	Wayne Smith		2009
A510B	CV-B	Wayne Smith		2009
A511	RANGER	Wayne Smith		2008

A512	WASP 1942	Wayne Smith		2008
A513	SARATOGA 1944	Framburg	Rebuilt by W.Smith	2008
A514	LEXINGTON 1942	Wayne Smith	Rebuilt by W.Smith	2008
A516	YORKTOWN 1942	Ed Schwam		
A517	LANGLEY (CV-1), U.S. CV	John Carter	Rebuilt by W.Smith	
Amphibious Ships & Craft		Model Maker	Upgraded/Rebuilt?	Released
A821	ELDORADO AGC	Authenticast	Rebuilt by W.Smith	2005
A822	LST	Authenticast	Rebuilt by W.Smith	2005
A823	LCI (4)	Authenticast	Rebuilt by W.Smith	2005
A824	LCT (4)	Authenticast	Rebuilt by W.Smith	2005
Auxiliaries & Miscellaneous		Model Maker	Upgraded/Rebuilt?	Released
A801	BARNEGAT (AVP)	Authenticast		
A802	CIMARRON (AO)	Authenticast		
A803	CURTISS (AV)	Authenticast	Rebuilt by W.Smith	2004
A804	DIXIE (AD)	Authenticast	Rebuilt by W.Smith	2004
A805	FULTON (AS)	Authenticast	Rebuilt by W.Smith	2004
A806	HENDERSON (AP/AH)	Authenticast	Rebuilt by W.Smith	2004
A811	LIBERTY SHIP	Authenticast		
A812	VICTORY SHIP	Authenticast		
Battlecruiser		Model Maker	Upgraded/Rebuilt?	Released
A201	ALASKA 1944*	Wayne Smith		
A202	Lexington 1922	Wayne Smith		2002
A203	Lexington 1916	Wayne Smith		2004
A204	Project D 1918	Wayne Smith		2003
A205	CA2D	Wayne Smith		2003
A206	CA Scheme #2	Wayne Smith		2013
A207	CAC	Wayne Smith		2003
A208	CA Scheme #3	Wayne Smith		2006
A209	CC 1933	Wayne Smith		2006
Battleships		Model Maker	Upgraded/Rebuilt?	Released
A101	ARIZONA 1941	John Carter		1966
A102	ARKANSAS 1944	Authenticast	Rebuilt by W.Smith	2003
A103	COLORADO 1941	Authenticast		
A104	COLORADO 1944	Authenticast	Rebuilt by W.Smith	2004
A105	IOWA 1945*	Wayne Smith		1975
A106	MASSACHUSETTS 1945*	Bob Duhadaway		
A107	MONTANA (as planned)*	John Carter		
A108	NEVADA 1944*	John Carter		
A109	NEW MEXICO 1944	Authenticast	Rebuilt by W.Smith	
A110	IDAHO 1945	Wayne Smith		2001
A111	MISSISSIPPI 1945	Wayne Smith		2001
A112	NORTH CAROLINA 1944*	Authenticast	Rebuilt by J.Carter	
A113	PENNSYLVANIA '44*	Authenticast	Rebuilt by W.Smith	2000
A114	COLORADO 1944	Authenticast	Rebuilt by W.Smith	2004
A115	TENNESSEE 1941	Authenticast		
A116	TENNESSEE 1942	Authenticast	Rebuilt by W.Smith	2004
A117	TENNESSEE 1944*	Authenticast	Rebuilt by J.Carter	

A118	TEXAS 1945	Authenticast	Rebuilt by W.Smith	2001
A119	WEST VIRGINIA '44*	Authenticast	Rebuilt by J.Carter	
A121	SOUTH DAKOTA '21 12-16" guns	Wayne Smith		
A122	NEW JERSEY 1984	Scott Spicer		
A123	MARYLAND 1945	Wayne Smith		2001
A124	OKLAHOMA 1941	Wayne Smith		2001
A125	BB65D* (12-16", 3x4)	Wayne Smith		2005
A126	Tillman IV-2	Wayne Smith		2002
A127	Georgia (Montana II)*	Wayne Smith		2002
A128	Virginia (Montana III)*	Wayne Smith		2002
A130	BB 1922*	Wayne Smith		2003
A131	BB1923	Wayne Smith		2003
A132	BB 65A	Wayne Smith		2004
A133	BB 65(I)	Wayne Smith		2005
A134	US Maximum BB	Wayne Smith		2005
A135	BB 1917	Wayne Smith		2005
A136	BB65C	Wayne Smith		2005
A137	BB1934-2	Wayne Smith		2006
A138	BB1937 XVI	Wayne Smith		2006
A139	South Dakota 1942	Wayne Smith		2007
A140	New Jersey 1968	John Carter		1969
A141A	Montana BB65-8 (12-16")	Wayne Smith		2009
A141B	Montana BB65-8 (12-18")	Wayne Smith		2009
A142	Iowa Flight Deck 1984	Wayne Smith		
A143	Tillman IV 24-16"	Wayne Smith		2013
Destroyer Escorts		Model Maker	Upgraded/Rebuilt?	Released
A618	BUCKLEY	Authenticast		
A619	RUDDEROW	Authenticast		
Destroyers		Model Maker	Upgraded/Rebuilt?	Released
A601	BENHAM	Authenticast		
A602	BENSON	Authenticast		
A603	BROOKS	Authenticast		
A604	FARRAGUT	Authenticast		
A605	FLETCHER	Wayne Smith		
A606	GEARING	Authenticast	Upgraded by W.Smith	
A607	GRIDLEY	Authenticast		
A608	LIVERMORE	Authenticast		
A609	MAHAN	Authenticast		
A611	PORTER 1942	Authenticast		
A613	SIMS	Authenticast		
A614	SOMERS	Authenticast		
A615	SUMNER	Authenticast		
A616	Hull Nos. DD66-347	Authenticast		
Gunboats		Model Maker	Upgraded/Rebuilt?	Released
A840	ERIE (PG) (2)	Authenticast		
A841	TACOMA (PF) (2)	Authenticast		
Heavy Cruisers		Model Maker	Upgraded/Rebuilt?	Released
A301	BALTIMORE 1944*	Wayne Smith		1976

A302	PITTSBURGH 1944*	Wayne Smith		2001
A303	INDIANAPOLIS 1945	John Carter	Rebuilt by W.Smith	2001
A304	LOUISVILLE 1945	Wayne Smith		2012
A305	NEW ORLEANS 1942	Authenticast	Rebuilt by W.Smith	2001
A307	NORTHAMPTON 1942	Authenticast	Rebuilt by W.Smith	2001
A308	OREGON CITY 1945	Authenticast	Rebuilt by W.Smith	2004
A309	PENSACOLA 1943	Authenticast	Rebuilt by W.Smith	2001
A310	WICHITA 1945	Authenticast	Rebuilt by W.Smith	2001
A311	MINNEAPOLIS 1945	Wayne Smith		2001
A312	DES MOINES*	Wayne Smith		2003
A313	US Cruiser 1920	Wayne Smith		2006
Light Cruisers		Model Maker	Upgraded/Rebuilt?	Released
A401	ATLANTA (CLAA) 1942*	Wayne Smith		1976
A402	BROOKLYN 1945	Wayne Smith		1974
A403	CLEVELAND 1944*	Wayne Smith		1974
A404	VINCENNES 1944*	Wayne Smith		2001
A406	OMAHA 1943	Authenticast	Rebuilt by W.Smith	2001
A407	WORCESTER 1946	Wayne Smith		1975
A408	ST, LOUIS 1945*	Wayne Smith		2001
A409	SAVANNAH 1945*	Wayne Smith		2001
Mine Warfare Ships		Model Maker	Upgraded/Rebuilt?	Released
A831	TERROR (CM)	Authenticast		
A832	RAVEN (AM) (2)	Authenticast		
A833	BIRD (AM) (2)	Authenticast		
Submarines		Model Maker	Upgraded/Rebuilt?	Released
A701	BALAO (2)	Bob Duhadaway		
A704	S-22 (3)	Authenticast		
JAPAN				
Aircraft Carrier		Model Maker	Upgraded/Rebuilt?	Released
J501	HOSHO	Comet	Rebuilt by W.Smith	2012
J502	AKAGI 1942	John Carter		2003
J503	KAGA 1942	Clydeside	Rebuilt by W.Smith	2001
J504	SORYU 1942	Clydeside	Rebuilt by W.Smith	2001
J505	HIRYU 1942	Clydeside	Rebuilt by W.Smith	2001
J509	RYUJO	Authenticast	Rebuilt by W.Smith	2013
J510	TAIYO	Authenticast	Rebuilt by W.Smith	2013
J511	SHOHO 1942	Wayne Smith		1975
J512	SHOKAKU	Authenticast	John Carter	
J515	TAIHO	Authenticast	Rebuilt by W.Smith	2013
Auxiliaries		Model Maker	Upgraded/Rebuilt?	Released
J801	JINGEI (AS)	Authenticast		
J802	KAMOI, (AV)	Authenticast		
J803	MIZUHO, (AV)	Authenticast		
J804	NOTORO (AV/AO)	Authenticast		
J805	KAMOI (AV/AO)	Authenticast		
Battleships		Model Maker	Upgraded/Rebuilt?	Released
J101	FUSO	Authenticast	Rebuilt by W.Smith	2001
J102	ISE	Authenticast	Rebuilt by W.Smith	2001
J103	ISE w/Flight Deck	Authenticast	Rebuilt by W.Smith	1981

J104	KONGO	John Carter		1972
J106	NAGATO 1945	H. Kephart/J.Carter	Detailed by W. Smith	1973
J107	YAMATO*	Wayne Smith		1975
J108	TOSA 1921	Wayne Smith		1980
J109	Super Yamato (798)*	Wayne Smith		2002
J110	Number 13	Wayne Smith		2004
J111	Yamato A140A	Wayne Smith		2004
J112	Yamato A140A2	Wayne Smith		2005
J113	Yanato A140B2	Wayne Smith		2005
J114	Fujimoto	Wayne Smith		2007
J115	Hiraga	Wayne Smith		2007
Battlecruiser		Model Maker	Upgraded/Rebuilt?	Released
J201	AMAGI 1921	Wayne Smith		1981
J202	B65	Wayne Smith		2005
J203	Japanese Vanguard	Wayne Smith		2009
Destroyer		Model Maker	Upgraded/Rebuilt?	Released
J601	AMAGIRI	Authenticast		
J602	ASASHIO	Wayne Smith		
J603	HATSUHARU	Authenticast		
J604	HIBIKI	Authenticast		
J605	KAGERO	Bob Duhadaway	Detailed by W. Smith	
J607	MATSU	Authenticast		
J608	MINEKAZE	Authenticast		
J609	MUTSUKI	Authenticast		
J611	TERUTSUKI	John Carter		
J612	WAKATAKE	Authenticast		
J613	YUGUMO	Wayne Smith		
Heavy Cruisers		Model Maker	Upgraded/Rebuilt?	Released
J301	AOBA	Authenticast	Rebuilt by W.Smith	2011
J302	ATAGO 1944	Authenticast superstructure	Rebuilt by W.Smith	2012
J303	CHOKAI 1944	Authenticast superstructure	Rebuilt by W.Smith	2011
J304	MAYA AA 1944	Wayne Smith		2012
J305	SUZUYA 1944	Wayne Smith		1975
J306	FURUTAKA 1942	Wayne Smith		2012
J307	NACHI 1944	Authenticast	Rebuilt by W.Smith	2011
J308	TONE 1944	Wayne Smith		2011
J309	MOGAMI w. Flight Deck	Wayne Smith		2007
Light Cruiser		Model Maker	Upgraded/Rebuilt?	Released
J401	KATORI	Authenticast		
J402	NATORI	Authenticast		
J403	KUMA	Authenticast	Upgraded by W.Smith	2002
J404	ISUZU	Wayne Smith		2002
J405	SENDAI	Authenticast	Upgraded by W.Smith	2002
J407	YUBARI	Authenticast	Upgraded by W.Smith	2002
J408	TENRYU	Authenticast		
J409	KITIKAMI	Wayne Smith		2007
J410	AGANO	Wayne Smith		
Mine Warfare Ship		Model Maker	Upgraded/Rebuilt?	Released
J831	ITSUKUSHIMA	Authenticast		

J832	OKINISHIMA	Authenticast		
J833	SHIRATAKA	Authenticast		
J834	YAEYAMA	Authenticast		
Marus	Name (# in class)	Authenticast Label	Upgraded/Rebuilt?	Released
M1	ASAMA (2)	Modern Passenger-Large		Oct-01
M2	HEIAN (3)	Transport, Large	Rebuilt by W.Smith	Jun-08
M3	BUENOS AIRES (2)	Combat Transport		
M4	OMUROSAN (2)	Modern Tanker		
M5	SHINSEI #17 (7)	Old Coastal Freighter	Rebuilt by W.Smith	Mar-06
M6	ARIMISAN (3)	Modern Passenger-Freighter		
M7	HIROKAWA (5)	Modern Passngr Freighter	Rebuilt by W.Smith	Mar-06
M8	AKAGI (4)	Modern 3 Island Cargo		
M9	AFRICA (4)	Combat Load Transport	Rebuilt by W.Smith	Jun-08
M10	DIA-ITI OGURA (5)	Old 3 Islnd Tanker	Rebuilt by W.Smith	Jun-08
M11	NEKKA (2)	Transport, Small		Nov-00
M12	KOKURYU (2)	Modern Passenger Small		
M13	HOYO (2)	Navy Petrol Carrier		Jun-76
M14	LIMA (18)	Old 3 Island Freighter		Dec-05
M15	SINKO (8)	Modern 3 Island Cargo		
M16	HAKUSAN (4)	Old Passenger-Cargo		
M17	ASUKA (2)	Cargo Ship		
M18	MONTEVIDEO (3)	Old Passenger-Cargo		Oct-03
M19	KASHIMA (2)	Freighter, Large		
M20	BIYO (17)	Old 3 Island Freighter		Oct-03
M21	AKIURA (8)	Modern Freighter-Large		Dec-05
M22	NISSHIN (3)	Authenticast		
M23	NAGISAN (2)	Modern Coastal Freighter		
M24	ADEN (43)	Store Ship		Oct-03
M25	BANGKOK (2)	(Freighter, small)		
M26	NIPPON (2)	Authenticast		
M27	TATUKAMI (2)	Authenticast		
M28	YASUKUNI (2)	Authenticast		
M29	HOKKAI (6)	Authenticast		
M30	KINPOSAN (2)	Authenticast		
M31	KASHII (5)	Authenticast	Rebuilt by W.Smith	Jun-08
M32	TEIYO (1)	Authenticast		
M33	MONTREAL (6)	Authenticast		Jun-00
M34	KAMAKURA (1)	Authenticast		
M35	KANO (1)	Authenticast		
M36	KINRYU (3)	Authenticast		Oct-01
M37	AMAKUSA #1 (40)	Authenticast		Oct-03
M38	KORYU (5)	Authenticast		
M39	NAGARA (6)	Authenticast		Jun-76
M40	TAKATIHO (1)	Authenticast		
M41	BENGAL (11)	Authenticast		Dec-05
M42	TYOKO (3)	Authenticast		Oct-01
M43	AMAGISAN (2)	Authenticast		
M44	FUSHIMI (2)	Authenticast		
M45	DAIGEN (8)	Authenticast	Rebuilt by W.Smith	Mar-06
M46	PEKING (20)	Authenticast		Dec-05

M47	SANTEN (13)	Authenticast		Oct-03
M48	AWAZISAN (2)	Authenticast		
M49	KYOKOTU (3)	Authenticast		
M50	GENYO (6)	Authenticast		
M51	Siretoka	Authenticast		
M52	KURAMA	Authenticast		
M77	KANZYU	Authenticast		
M78	KAMOGAWA	Authenticast		
M103	South Salem #3	Passenger - Old	Detailed by W. Smith	2010
M106	South Salem #6	Standard Freighter - Old	Detailed by W. Smith	2010
M107	South Salem #7	Modern Freighter (split superstructure)	Detailed by W. Smith	2010
M114	South Salem #14	Amerikaland (Norwegian Collier)	Detailed by W. Smith	2010
M115	South Salem #15	Trawler	Detailed by W. Smith	2010
GERMANY				
Armoured Ship		Model Maker	Upgraded/Rebuilt?	Released
G204	ADMIRAL SCHEER	Authenticast	Upgraded by W.Smith	2007
G205	GRAF SPEE	John Carter	Upgraded by W.Smith	2007
G206	LUTZOW	Authenticast	Upgraded by W.Smith	2012
G207	Kreuzer P	Wayne Smith		2005
Battlecruiser		Model Maker	Upgraded/Rebuilt?	Released
G201	GNEISENAU*	Authenticast	Upgraded by W.Smith	2005
G202	SCHARNHORST*	Authenticast	Upgraded by W.Smith	2005
G203	OPQ	Wayne Smith		2004
G208	KW45	Wayne Smith		2005
G920	DERFFLINGER 1914	John Carter		
G921	SEYDLITZ 1914	John Carter		
G922	VON DER TANN 1914	John Carter		
G923	MOLTKE 1914	John Carter	Upgraded by W.Smith	
G924	BLUCHER	Wayne Smith		
G925	MACKENSEN	Wayne Smith		
Battleships		Model Maker	Upgraded/Rebuilt?	Released
G101	BISMARCK*	John Carter	Upgraded by W.Smith	2005
G102	TIRPITZ*	Authenticast	Upgraded by W.Smith	2005
G103	H39 15" guns*	Herb Kephart		
G104	H39 16" guns*	Herb Kephart		
G105	H44	Wayne Smith		2005
G901	NASSAU 1914	John Carter		
G902	HELGOLAND 1914	John Carter		
G903	KOENIG 1914	John Carter		
G904	BADEN 1916	Wayne Smith		
G905	KAISER 1914	Wayne Smith		
Destroyer		Model Maker	Upgraded/Rebuilt?	Released
G601	GALSTER	Authenticast		
G602	MAASZ	Authenticast		
G603	NARVIK	Authenticast		
Heavy Cruisers		Model Maker	Upgraded/Rebuilt?	Released
G301	HIPPER	Authenticast	Upgraded by W.Smith	2007

G302	PRINZ EUGEN	Authenticast	Upgraded by W.Smith	2003
Light Cruiser		Model Maker	Upgraded/Rebuilt?	Released
G402	KOELN	Authenticast		
G403	LEIPZIG	Authenticast		
G404	NURNBERG	Authenticast		
G405	Kreuzer M	Wayne Smith		2006
Submarine		Model Maker	Upgraded/Rebuilt?	Released
G701	TYPE VII (3)	Authenticast		
G702	TYPE XIV (3)	Authenticast		
G703	TYPE XXI (3)	Bob Duhadaway		
GREAT BRITAIN				
Aircraft Carrier		Model Maker	Upgraded/Rebuilt?	Released
B501	UNICORN	Authenticast		
B504	FURIOUS	Authenticast		
B505	ILLUSTRIOUS	Authenticast		
B506	ARK ROYAL	Wiking	Upgraded by W.Smith	2003
B507	COURAGEOUS	Wiking	Upgraded by W.Smith	2003
B508	EAGLE	Comet	Upgraded by W.Smith	2003
B509	HERMES	Wiking	Upgraded by W.Smith	2003
Auxiliary		Model Maker	Upgraded/Rebuilt?	Released
B803	ABDIEL DM	Authenticast		2007
B804	TYNE AD	Authenticast		
B805	QUEEN MARY	Triang	John Carter	
Battlecruiser		Model Maker	Upgraded/Rebuilt?	Released
B201	HOOD	John Carter		
B202	RENOWN	Authenticast	Rebuilt by W.Smith	2003
B203	REPULSE	Wayne Smith		2003
B204	INVINCIBLE 1921	Wayne Smith		2005
B205	Hood 1944	Wayne Smith		2001
B206	F3	Wayne Smith		2005
B920	INVINCIBLE 1914	John Carter		
B921	INDEFATIGABLE 1914	John Carter		
B922	LION 1914	John Carter	Upgraded by W.Smith	2002
B923	TIGER 1915	John Carter		
Battleships		Model Maker	Upgraded/Rebuilt?	Released
B101	KING GEORGE V*	Authenticast	Upgraded by W.Smith	2005
B102	LION*	Wayne Smith		1974
B103	MALAYA	Authenticast	Rebuilt by J.Carter	
B104	NELSON*	Authenticast	Rebuilt by J.Carter	2004
B105	PRINCE OF WALES '41*	Framburg	Rebuilt by J.Carter	2005
B106	QUEEN ELIZABETH	Authenticast	Rebuilt by J.Carter/Upgraded by W.Smith	
B107	ROYAL SOVEREIGN	Authenticast	Rebuilt by J.Carter/Upgraded by W.Smith	
B109	WARSPITE	Authenticast	Rebuilt by W.Smith	
B110	VANGUARD*	Triang from Musser	Rebuilt by W.Smith	2003
B111	Super LION (16E/38)*	Wayne Smith		2002
B112	N3 (1922)	Wayne Smith		2004

B113	BB1936 15A	Wayne Smith		2004
B114	LION Hybrid	Wayne Smith		2008
B901	DREADNOUGHT 1914	John Carter	Upgraded by W.Smith	2002
B902	IRON DUKE 1914	Authenticast	Upgraded by W.Smith	2002
B903	KING GEORGE V 1914	John Carter		
B904	BELLEROPHON	Wayne Smith		2003
B905	COLLINGWOOD	Wayne Smith		2003
B906	NEPTUNE	Wayne Smith		2003
B908	QE WWI	Wayne Smith		2003
Destroyer		Model Maker	Upgraded/Rebuilt?	Released
B601	H CLASS	Authenticast		
B602	J CLASS	Authenticast		
B603	L & M CLASS	Authenticast		
B604	SZ CLASS	Authenticast		
B605	TRIBAL	Authenticast	Rebuilt by W.Smith	
Heavy Cruisers		Model Maker	Upgraded/Rebuilt?	Released
B301	CUMBERLAND	Authenticast	Upgraded by W.Smith	2002
B302	DORSETSHIRE	Wayne Smith		2007
B303	HAWKINS	Authenticast	Upgraded by W.Smith	2009
B304	LONDON	Authenticast		
Light Cruiser		Model Maker	Upgraded/Rebuilt?	Released
B401	ARETHUSA	Authenticast	Upgraded by W.Smith	2009
B402	BELFAST	Authenticast	Upgraded by W.Smith	2002
B403	DIDO	Authenticast	Upgraded by W.Smith	2002
B405	FIJI	Authenticast	Upgraded by W.Smith	2009
B406	LEANDER	Authenticast	Upgraded by W.Smith	2012
B407	SOUTHAMPTON	Authenticast	Upgraded by W.Smith	2009
B408	HOBART	Wayne Smith		2007
B409	BLACK PRINCE	Wayne Smith		
B410	Colony AA	Wayne Smith		
Monitor		Model Maker	Upgraded/Rebuilt?	Released
B801	ABERCROMBIE	Authenticast		
B802	ROBERTS	Authenticast		
FRANCE				
Battleships		Model Maker	Upgraded/Rebuilt?	Released
F102	COURBET	Authenticast	Rebuilt by W.Smith	
F103	DUNKERQUE*	John Carter	Rebuilt by W.Smith	2003
F104	RICHELIEU*	Authenticast	Upgraded Carter/Smith by	2004
F105	GASCOGNE*	Wayne Smith		2001
F106	ALSACE*	Wayne Smith		2002
F107	BRETAGNE	Wayne Smith		2003
F109	CLEMENCEAU	Wayne Smith		2005
F110	JEAN BART	Wayne Smith		2009
F901	NORMANDIE	Wayne Smith		2002
F902	LYON			
F903				
Destroyer		Model Maker	Upgraded/Rebuilt?	Released
F601	FANTASQUE	Authenticast	John Carter	

F602	MOGADOR	Wayne Smith		
F603	Le Hardi	Wayne Smith		2004
Heavy Cruisers		Model Maker	Upgraded/Rebuilt?	Released
F301	TOURVILLE	Authenticast	John Carter	
F303	SUFFREN	Mike Musser Collection	Rebuilt by W.Smith	
F304	FOCH	Mike Musser Collection	Rebuilt by W.Smith	2005
F305	DUPLEIX	Mike Musser Collection	Rebuilt by W.Smith	2005
F306	ALGERIE	Wayne Smith		2005
Light Cruiser		Model Maker	Upgraded/Rebuilt?	Released
F401	GEORGES LEYGUES	Wayne Smith		
F402	EMILE BERTIN	Framburg	Rebuilt by W.Smith	2005
F403	PRIMAGUET	Comet	Rebuilt by W.Smith	2004
F404	DeGRASSE	Wayne Smith		
ITALY				
Battleships		Model Maker	Upgraded/Rebuilt?	Released
I101	ANDREA DORIA	Authenticast		
I102	CONTE DE CAVOUR	Authenticast		
I103	LITTORIO*	Authenticast		2004
Destroyer		Model Maker	Upgraded/Rebuilt?	Released
I601	SOLDATI	Wayne Smith		
Heavy Cruisers		Model Maker	Upgraded/Rebuilt?	Released
I301	TRENTO	Star	New hull and upgraded by W.Smith	2004
I302	ZARA	Authenticast		
I303	BOLZANO	Wayne Smith		
Light Cruiser		Model Maker	Upgraded/Rebuilt?	Released
I401	DUCA D'AOSTA	Authenticast	Rebuilt by W.Smith	2002
I402	GARIBALDI	Authenticast		
I403	BANDE NERE	Star, Mike Musser collection	Rebuilt by W.Smith	2004
I404	CADORNA	Star	Rebuilt by W.Smith	2004
I405	CIANO	Wayne Smith		2010
RUSSIA				
Battleships		Model Maker	Upgraded/Rebuilt?	Released
R101	SOVIET SOYUZ	Wayne Smith		2013
R102	GIBBS AND COX 'D'	Wayne Smith		
R103	PROJECT 24 (XIII)	Wayne Smith		2008
R104	UP41	Wayne Smith		
Battlecruisers		Model Maker	Upgraded/Rebuilt?	Released
R201	Kronstadt	Wayne Smith		
R202	Stalingrad	Wayne Smith		2008
Light Cruisers		Model Maker	Upgraded/Rebuilt?	Released
R401	Kirov	Authenticast	Rebuilt by W.Smith	2007
R402	Chapayev	Viking	Rebuilt by W.Smith	2007
R403	Sverdlov	Viking	Rebuilt by W.Smith	2007
GREAT WHITE FLEET ERA				

JAPAN				
T101	MIKASA	NA	.	
T102	KASUGA	NA	.	
T103	YAKUMO	NA	.	
T104	ZUMA	NA	.	
UNITED STATES				
W101	ALABAMA 1898	NA	.	
W102	CONNECTICUT 1905	NA	.	
W103	INDIANA	NA	.	
W104	MAINE 1898	NA	.	
A129	MICHIGAN	NA	Rebuilt by W.Smith	2003
W106	BROOKLYN	NA	.	
W107	OLYMPIA	NA		