



WWII Imperial Japanese Navy Ship and Gun List

Ship Class	Body Type	Inches of Class 'A' (vertical/ <i>horizontal</i>) armor														
		Tur F	Tur S	Tur R	Tur Top	BB	Belt Eng	Belt Mag	Up Belt	Deck Eng	Deck Mag	2 nd Tur	Low Belt	AB f,a	CT f,a	FCD f,a,t
Yamato, Musashi	R	25	10	22	11	22	18 _{L0}	20 _{L0}	1½	1^9	2^10	2 2	½^12	12	19,1	1,1,1
Nagato, Mutsu	C	17	11	7	9	15	12	12	3	1½/2½^7	2½^8	1 2½	½^6	10	14,1	1,1,1
Ise, Hyūga	C	14	9	8	8	14	12	12	7	2^6	2^6	6 2	½^6	10	14	6,1,1
Fuso, Yamashiro	C	14	9	8	8	14	12	12	8	2^5	2^7	6 2	½^6	11	13	6,1,1
Kongo	C	11	8	8	7	12	9	9	6	2^5	2^7	6 2	½^4	7	9	1,1,1
Mogami	S	1	1	1	1	3,4 _{#3#4}	4	6	(3)	1½	2	.	¼^3	5	4,¼	¼,¼,¼
Tone	S	1	1	1	1	3/5	4	6	(4)	½^2	½^3	.	¼^2½	6	5,¼	¼,¼,¼
Takao	S	1	1	1	1	5	3½	5	(3)	½^2	½^3	.	¼^2	3	½,¼	¼,¼,¼
Moyoko	S	1	1	1	1	3	3½	4	(3)	1^2	1^2	.	¼^2	3	¼	¼,¼,¼
Aoba	S	1	1	1	1	1,1½ _{#2}	3	3	(1½)	½^2	½^2½	.	½	2	1½,¼	¼,¼,¼
Furutaka	S	1	1	1	1	2	3	3	(1½)	1^2	1^2	.	½	2	1½,¼	¼,¼,¼
Agano	S	1	1	1	1	1	3	3	(1½)	½^1	1	.	½	2	1,	¼,¼,¼
Oyodo	S	1	1	1	1	1	2	2½	(½)	1	2	.	½	2	1½,	
Nagara	S	½	½	½	½	1	½^1½	1½^2		1	1	.	½	2	½,	
Katori	S	½	½	½	½	1	½	½		½	½	.	½	¼	¼,	¼,¼
Senadi	S	½	½	½	½	½	2½	2½		1	1	.	½	1½	2,	
Kuma	S	½	½	½	½	½	2½	2½		1	1		½	½	2	
Yubari	S	½	½			½	2	2	(1½)	1	1		½	1½	1,	
Tenryu	S	½	½			½	2½^4	2½^4		1	1	.	½	2	2,	
Wakatake	S	¼				½	½	½		½	½					
Minekaze	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Kamikaze	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Fubuki	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Akatzuki	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Mutsuki	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Asashino	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Hatsuharu	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Shiratsuyu	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Yugumo	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Kagero	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Shimakaze	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Akizuki	S	1/8	1/8	1/8	1/8	½	½	½		½	½			¼		
Matsu	S	¼	¼	¼	¼	½	½	½		½	½			¼		
Tachibana	S	¼	¼	¼	¼	½	½	½		½	½			¼		

Note:

A/B= Two possible values for this armor, each with a 50/50 chance of occurring.

A^B= Two layers of armor. Roll once for penetration. If resulting penetration equals or surpasses B then full damage happens. If it only equals or surpasses A then nominal damage is imparted.

L0 - Belt extends to location 12. Subsequently Lower Belt locations are 13+.

Up Belt A,(B)= A is the upper belt armor, B is the funnel Uptake armor for Upper Belt hits. When only (B) appears A is 0.

f, a= forward, or aft conning tower

f, a, t= main (usually forward), aft main or secondary, tertiary or torpedo fire control director

. = Spray shields of no armor value.



WWII Imperial Japanese Navy Ship Data List

Ship Class	Imperial Japanese Navy Ship Data																	
	Main	ROF	Secondary	ROF	Tertiary, High AA	ROF	Low AA	Torpedo	Protection			Radar	Rng Fndr	Planes	Hulls	Engines	Speed	Size
									Flash	UW	DC							
Yamato, Musashi	18.1"/45 (3x3):9	1	6.1"/60 (4x3)	1.75	5"/40 (6x2):6	2.5	24:2,4:1		4	4	5	+1	7	32	5	20	7	
Nagato, Mutsu	16.1"/45 (4x2)	1	5.5"/50 (18x1)	2	5"/40 (4x2):6	2.5	20:2		3	2	4	+1	3	21	5	18	6	
Ise, Hyūga	14"/45 (6x2)	1	5.5"/50 (16x1)	2	5"/40 (4x2):6	2.5	20:2		2	2	4	+1	3	18	5	19	5	
Fuso, Yamashiro	14"/45 (6x2)	1	6"/50 (14x1)	2	5"/40 (4x2):6	2.5	16:2		2	1	4	+1	3	17	5	18	5	
Kongo	14"/45 (4x2)	1	6"/50 (16x1)	2	3"/40 (1x4):3	2.75	16:2	24" (4x1)	2	1	4	+1	3	14	4	19	5	
Mogami	8"/50 (5x2)	1.5	5"/40 (4x2):6	2.5	<		8:2,4:1	24" (4x3)	2	1	3	+1	3	6	4	25	3	
Tone	8"/50 (4x2)	1.5	5"/40 (4x2):6	2.5	<		12:2	24" (4x3)	2	1	3	+1	5	6	4	26	3	
Takao	8"/50 (5x2)	1.5	5"/40 (4x2):6	2.5	<		8:2,4:1	24" (4x4)	2	1	3	+1	3	7	4	25	3	
Moyoko	8"/50 (5x2)	1.5	5"/40 (4x2):6	2.5	<		8:2,4:1	24" (4x4)	2	1	3	+1	3	7	4	25	3	
Aoba	8"/50 (3x2)	1.5	4.7"/45 (4x1):5	2.25	<		8:2,4:1	24" (6x2)	2	1	3	+1	1	5	3	24	3	
Furutaka	8"/50 (3x2)	1.5	4.7"/45 (4x1):5	2.25	<		8:2,4:1	24" (2x4)	2	1	3	+1	1	5	3	24	3	
Agano	6"/50 (3x2)	1.5	3"/50 (4x1):3	2.75	<		32:2	24" (2x4)	2	1	3	+1	2	4	3	26	2	
Oyodo	6.1"/60 (2x3)	1.75	3.9"/65 (4x2):4	2.75	<		12:2		2	1	3	+1	2	4	3	26	3	
Nagara	5.5"/50 (5x1)	2	5"/40 (1x2):6	2.5	<		22:2, 2:1	24" (4x2)	2		3			4	3	24	2	
Katori 1943	5.5"/50 (2x2)	2	5"/40 (3x2):6	2.5	<		20:2		2		2		1	3	3	13	2	
Sendai 1943	5.5"/50 (7x1)	2	5"/40 (2x1):6	2.5	<		44:2,6:1	24" (4x2)	2		2			3	3	13	2	
Kuma	5.5"/50 (7)	2	3.1"/50 (1x1):3	2.75	<		2:0	24" (4x2)	1		2			3	3	17	2	
Kitakami 1941	5.5"/50 (4x1)	2					8:2	24" (10x4)	1		2			3	3	26	2	
Yubari 1943	5.5"/50 (2x2)	2					12:2,8:1	24" (2x2)	2		2			2	2	23	1	
Tenryu	5.5"/50 (4x1)	2	3.1"/40 (1x1):3	2.75	<		2:1	21" (2x3)	1		2			3	3	24	1	
Wakatake	4.7"/(2x1):5	2.25					8:2	24" (2x2)			2			2	2	26	1	
Minekaze	4.7"/(2x1):5	2.25					10:2	24" (2x2)			2			2	2	29	1	
Kamikaze	4.7"/(3x1):5	2.25					10:2	24" (2x2)			2			2	2	27	1	
Fubuki	5"/50 (3x2):6	2					2:1	24" (3x3)			2			2	2	28	1	
Akatzuki	5"/50 (3x2):6	2					2:1	24" (3x3)			2			2	2	28	1	
Mutsuki	4.7"/(4x1):5	2.25					2:0	24" (2x3)			2			2	2	27	1	
Asashino	5"/50 (3x2):6	2					4:2	24" (2x4)			2			2	2	26	1	
Hatsuharu	5"/50 (2x2):6	2					2:1	24" (3x3)			2			2	2	27	1	
Shiratsuyu	5"/50 (2x2,1x1):6	2					2:1	24" (2x4)			2			2	2	25	1	
Yugumo	5"/50 (3x2):6	2					4:2	24" (2x4)			2			2	2	26	1	
Kagero	5"/50 (3x2):6	2					4:2	24" (2x4)			2			2	2	26	1	
Shimakaze	5"/50 (3x2):6	2					6:2	24" (3x5)			2			2	2	29	1	
Akitsuki	3.9"/65 (4x2):4	2.75					4:2	24" (1x4)			2			2	2	24	1	
Matsu DE	5"/40 (1x2,1x1):6	2.5					24:2	24" (1x4)			2			2	2	20	1	
Tachibana DE	5"/40 (1x2,1x1):6	2.5					24:2	24" (2x2)			2			2	2	20	1	

Key:

(NxG) = number of turrets or mounts with 'G' number of guns in each.

:B = B is the damage factors inflicted per hit by this AA battery,

C:B = C is the chance to hit aircraft with this weapon. B is the damage factors inflicted to aircraft per hit.

> = Dual Purpose. See column to the right for guns fulfil this role.

< = Dual Purpose. See column to the left for guns fulfil this role.

Range Findvalue applies to the main battery only. For secondaries the value is one less. For tertiaries it is two less.

Note - Ship configurations changed throughout the war as additional threat of air attack increased more anti-aircraft guns were added. Shown here tend to the earlier configurations.



WWII Imperial Japanese Navy Carrier Data List

Carrier Class	Imperial Japanese Navy Carrier Data																						
	High AA	ROF	Low AA	Inches of Class 'A' (vertical/ horizontal) armor								Service		Protection			Radar	Aircraft	Reserve	Hulls	Engines	Speed	Size
				Belt Eng	Belt Mag	Up Belt	Deck Eng	Deck Mag	Low Belt	AB f,a	CT	Hang	Lifts	Flash	UW	DC							
Hosho			8:2	½	½	¼	¼ ^½	¼ ^½	½	½	¼	1	2		0	2		11		4	3	18	3
Akagi	4.7" / (6x2):5	2.25	28:2, 22:1	6^7	6^7	½ (4)	¼ ½^3	¼ 1½^3½	1^3	4	1	2	3		1	3		66	15	17	4	23	6
Kaga	5" / 40 (8x2):6	2.5	30:2	11	11	½ (4)	¼ ½^3	¼ 1½^3½	1^6	4	1	2	3		1	3		72	18	17	4	20	6
Ryujo	5" / 40 (4x2):6	2.5	22:2	½	½	¼ (1)	¼ ^½	¼ ^½	½	½	¼	2	2			2		37	8	4	3	25	4
Soryu	5" / 40 (6x2):6	2.5	28:2	2	2	½ (2)	¼ ½^2	¼ ½^3	2	2	¼	2	3		1	2		63	8	7	4	25	4
Hiryu	5" / 40 (6x2):6	2.5	31:2	3½	6	½ (2)	¼ ½^1½	¼ ½^3	2	2	¼	2	3		1	2		57	16	8	4	25	4
Shokaku	5" / 40 (8x2):6	2.5	42:2	2	7	1 (3)	¼ ½^5½	¼ ½^6	2	2	¼	2	3		1	3	T21	72	12	15	4	25	5
Junyo	5" / 40 (6x2):6	2.5	24:2	2	1	¼	¼ ^2	¼ ^1	1	2	¼	2	2		1	3		48	5	10	4	19	5
Taiho	3.9" / 65 (6x2):4	2.75	71:2	6	7	2 (4)	3 3¼^8	3¼ 3½^8	5	4	¼	2	2	1	2	2	T21	75	9	13	4	24	6
Shinano	5" / 40 (8x2):6	2.5	145:2	7	7	1	3 3¼^8	3 3¼^11	7	12	¼	1	2	1	3	2		47		26	5	20	7
Unryu	5" / 40 (6x2):6	2.5	76:2	2	6	½ (2)	½ ^1½	½ ^3	2	2	¼	2	2		1	3		57	6	8	4	25	4
Katsuragi	5" / 40 (6x2):6	2.5	51:2	2	6	½ (2)	½ ^1½	½ ^3	2	2	¼	2	2		1	3		57	6	8	4	24	4
Ryuho	5" / 40 (4x2):6	2.5	38:2	½	½	-	¼ ^1	¼ ^1	¼	¼	¼	1	2			2		24	7	6	4	21	3
Chitose	5" / 50 (4x2):6	2	30:2	¼	¼	-	¼ ^½	¼ ^½	¼	¼	¼	2	2			2		30		5	3	21	3
Zuiho	5" / 40 / (4x2):6	2.5	12:2	½	½	-	¼ ^½	¼ ^½	¼	¼	¼	1	2			2		30		5	4	21	3
Taiyo	4.7" / (6x1):5	2.25	8:2	1	1	-	¼ ^1	¼ ^1	½	½	¼	1	2			2		23	4	8	3	15	3
Chuyo	5" / 40 (4x2):6	2.5	14:2	1	1	-	¼ ^1	¼ ^1	½	½	¼	1	2			2		30	4	8	3	15	3
Kaiyo	5" / 40 (4x2):6	2.5	8:2	¼	¼		¼ ^½	¼ ^1	½	½	¼	1	2			2		24	4	6	3	17	3
Shinyo	5" / 40 (4x2):6	2.5	30:2	¼	¼		¼ ^½	¼ ^1	½	½	¼	1	2			2		27	6	8	3	16	4

Carrier Class	Imperial Japanese Navy Carrier Data		
	Main	ROF	Max Range
Akagi	8" / 50 (6x1)	1.5	225
Kaga	8" / 50 (10x1)	1.5	225

18.1" / 45 Type 91 AP Max 41,400	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																										
				35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9
Up to range	AP	1	N	25	34	43	52	62	71	81	90	102	113	126	137	150	166	183	201	219	236	256	269	283	299	322	345	371	400	414
				-	1½	2	2½	3	3½	4	5	6	7	8	9	10	11	12	13	14	15	DAF	1	2	3	4	5	6	7	8
Over range				0	75	101	131	158	186	216	256	278	298	315	329	339	349	358	368	379	393	Rng	74	109	151	191	231	270	310	377

16.1" / 45 Max 38,400	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																										
				30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7			
Up to range	AP	2	N	23	30	37	45	53	65	76	87	100	114	120	143	161	181	199	222	245	265	283	302	322	343	364	384			
				-	1½	2	2½	3	3½	4	5	6	7	8	9	10	11	12	13		DAF	1	2	3	4	5	6	7	8	
Over range				0	82	114	149	180	210	241	284	284	298	310	317	325	333	341	352		Range+	74	106	148	183	183	222	262	339	

14"/45 Type 95 Max 35,500	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																										
				24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6								
Up to range	AP	3	N	22	31	41	52	63	74	86	101	119	137	156	177	204	229	253	283	308	338	355								
				-	1	1½	2	2½	3	3½	4	5	6	7	8	9						DAF	1	2	3	4	5	6	7	8
Over range				0	56	96	133	169	206	241	263	281	301	316	328	342						Range+	71	106	142	174	209	245	287	336

14 " / 45 Type 88 Max 35,500	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																											
				16	15	14	13	12	11	10	9	8	7	6	5	4															
Up to range	AP	3	N	25	40	55	70	90	115	140	175	205	245	285	315	345															
"suichu dan"				-	1	1½	2	2½	3	3½	4	5	6										DAF	1	2	3	4	5	6	7	8
Over range				0	60	100	139	196	260	280	300	320	340										Range+	71	106	142	174	209	245	287	336

14" / 45	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																										
Max 35,500				12	11	10	9	8	7	6	5	4	3½																	
Up to range	HE	2	N	22	41	63	74	119	156	204	253	308	355																	
				3½	4	5	6															DAF	1	2	3	4	5	6	7	8
Over range				0	243	284	332															Range+	74	108	143	174	208	243	284	332

8" / 50 Type 95 Max 30,300	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																										
				15	14	13	12	11	10	9	8	7	6	5	4	3½	3	2½	2	1½	1									
Up to range	AP	7	N	11	22	32	45	59	73	87	106	128	149	192	216	235	258	273	283	291	303									
				-	½	1	1½	2	2½	3	3½	4	5	6							DAF	1	2	3	4	5	6	7	8	9
Range over				0	30	91	155	198	218	223	237	245	258	286							Range over	74	101	124	148	167	190	215	246	288

8" / 50 Type 88 Max 30,300	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																											
				11	10	9	8	7	6	5	4	3½	3	2½	2	1½	1														
Up to range	SAP	6	N	12	25	35	45	70	90	120	150	185	220	240	260	285	303														
"suichu dan"				-	½	1	1½	2	2½	3	3½	4	5									DAF	1	2	3	4	5	6	7	8	9
Range over				0	60	130	175	200	215	230	245	265	285									Range over	74	101	124	148	167	190	215	246	288

8" /50	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																											
Max 30,300				8	7	6	5	4	3½	3	2½	2																			
Up to range	HE	5	N	5	22	45	73	106	128	149	192	303																			
	HEI	5	N	2	2½	3	3½	4														DAF	1	2	3	4	5	6	7	8	9
Range over				0	190	215	246	288														Range over	74	101	124	148	167	190	215	246	288

6.1" /60	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																											
Max 27,400				12	11	10	9	8	7	6	5	4	3½	3	2½	2	1½	1													
Up to range	AP	9	N	11	22	35	49	63	78	94	118	137	155	186	209	235	254	274													
				-	½	1	1½	2	2½	3	3½									DAF			1	2	3	4	5	6	7	8	9
Range over				0	51	146	186	209	223	236	254									Range over			72	101	121	144	160	178	202	227	263
6.1" /60	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																											
Max 27,400				6	5	4	3½	3	2½	2	1½																				
Up to range	HE	7	N	11	35	63	78	94	118	137	274																				
				1½	2	2½	3													DAF			1	2	3	4	5	6	7	8	9
Range over				0	178	227	263													Range over			72	101	121	144	160	178	202	227	263

6" /50	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																											
Max 21,000				5	4	3½	3	2½	2	1½																					
Up to range	CM	8	N	18	34	50	66	84	128	210																					
				-	½	1	1½													DAF	1	2	3	4	5	6	7	8			
Range over				0	40	121	162													Range over	55	73	94	108	124	144	163	187			

5.5" /50		Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																							
Max 20,600					5	4	3½	3	2½	2	1½																	
Up to range	CM	8			16	35	50	67	84	139	206																	
					-	½	1	1½	2	2½										DAF	1	2	3	4	5	6	7	8
Range over					0	46	123	155	177	199										Range over	62	79	95	105	119	134	155	183

5" /50	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																									
Max 18,400				5	4	3½	3	2½	2	1½																			
Up to range	AP	9		16	35	50	67	84	139	184																			
				-	½	1	1½	2												DAF	1	2	3	4	5	6	7	8	9
Range over				0	46	123	155	177												Range over	52	66	79	89	101	115	132	146	180

5"/50	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																							
Max 18,400				3½	3	2½	2	1½	1																		
Up to range	HE	8		25	33	42	70	92	184																		
				1	1½	2	2½											DAF	1	2	3	4	5	6	7	8	9
Range over				0	132	146	180											Range over	52	66	79	89	101	115	132	146	180

5" /40	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																									
Max 14,700				4	3½	3	2½	2	1½	1																			
Up to range	AP	10		25	35	50	65	90	120	147																			
				-	½	1												DAF			1	2	3	4	5	6	7	8	9
Range over				0	50	120												Range over			51	62	75	84	95	106	115	129	141

5" /40				Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																								
Max 14,700	Shell	Damage	Disp	3½	3	2½	2	1½	1																			
Up to range	HE	8		18	25	32	45	60	147																			
				1	1½	2	2½											DAF	1	2	3	4	5	6	7	8	9	
Range over				0	115	129	141											Range over	51	62	75	84	95	106	115	129	141	

4.7" /45	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																							
Max 17,500				3½	3	2½	2	1½	1																		
Up to range	AP	11		12	22	35	49	71	160																		
				-	½	1	1½	2									DAF	1	2	3	4	5	6	7	8	9	
Range over				0	33	99	139	162									Range over	48	60	73	81	91	103	118	130	162	

4.7" /45	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																							
Max 17,500				3½	3	2½	2	1½	1																		
Up to range	HE	10		8	12	20	28	50	175																		
				1	1½	2	2½										DAF	1	2	3	4	5	6	7	8	9	
Range over				0	118	130	170										Range over	48	60	73	81	91	103	118	130	162	

3.9"/65	Shell	Damage	Disp	Range 100 x meters vs Penetration in Inches of Class 'A' (vertical/ horizontal) armor																								
Max 19,500				3½	3	2½	2	1½	1																			
Up to range	HE	9		5	10	15	20	40	195																			
				1	1½	2												DAF		1	2	3	4	5	6	7	8	9
Range over				0	135	170												Range over		47	59	73	83	95	106	119	135	156