

Sail ships of the line (3rd class, 80-90 guns)

INDOMPTABLE class (80, launched 1818-31)

SUFFREN class (90, launched 1829-54)

TOURVILLE class (90, converted 1852)

INDOMPTABLE class sail ships of the line (3rd class, 80)

Displacement:	3704t
Dimensions:	191ft 10in wL, 194ft 6in deck x 50ft 1in mld, 51ft 11in ext x 23ft 9in mean, 25ft 0in max. Depth 22ft 4in
Same, meters:	<u>58.47, 59.28 x 15.27, 15.82 x 7.23, 7.63m. 6.80m</u>
Masts:	Main 69ft 0in x 3ft 3in; Fore 60ft 8in x 3ft 1in; Mizzen 56ft 3in x 2ft 1in. Sail area 3411 sq.yd. (1854) Main 62ft 4in x 3ft 1in; Fore 55ft 9in x 3ft 1in; Mizzen 53ft 7in x 2ft 2in
Armament:	(1817) GD 30-36p; UD 32-24p; SD 14-12p, 10-36p carr. (1828) Same but SD 20-36p carr., 4-18p. (c1837) Same but SD 20-30p carr., 4-16cm shell.
Complement:	811

<u>Name</u>	<u>Builder</u>	<u>Laid down</u>	<u>Launched</u>	<u>Commiss.</u>	<u>Fate</u>
CENTAURE	Cherbourg	11.11	8.1.18	10.2.23	Stk. 5.11.49
NEPTUNE	Lorient	12.10	21.3.18	16.8.39	Stk. 11.1.58
ALGESIRAS	Lorient	4.12	21.8.23	20.8.28	Stk. 1847.
JUPITER	Cherbourg	11.11	22.10.31	20.11.35	Stk. 4.5.63.

Class. Other ships of this type, modeled on a ship designed by Sané and launched in 1790, were already afloat in 1816. The height of the lower battery was 5ft 10in. The rig of the type was reduced in the late 1840s or early 1850s after successful trials in Jupiter. Neptune, originally Brabançon, was renamed 29.8.14 and 15.7.15. Centaure was renamed Santi Petri 13.10.23 after a recent victory in Spain.

Disposals. Santi Petri became a prison hulk and was lost by fire 4.1.62. Neptune became a prison hulk and was BU 1868. Jupiter became a barracks hulk and was BU 1870.

SUFFREN class sail ships of the line (3rd class, 90)

Displacement:	4058t
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Dimensions:	197ft 5in wl, 198ft 6in deck x 51ft 8in mld, 53ft 5in ext x 24ft 3in mean, 25ft 3in max. Depth 22ft 10in
Same, meters:	60.17, 60.50 x 15.75, 16.28 x 7.40, 7.70m. 6.97m
Masts:	Main 66ft 5in x 3ft 5in; Fore 60ft 8in x 3ft 3in; Mizzen 57ft 5in x 2ft 3in. Sail area 3743 sq.yd.
Armament:	(Design) GD 30-30p No.1; UD 32-30p No.2; SD 24-30p carr., 4-18p. (<u>Suffren</u> and <u>Inflexible</u> , 1839-40) GD 26-30p No.1, 4-22cm No.1 shell; UD 32-30p No.2; SD 24-30p carr., 4-16cm shell. (<u>Bayard</u> and <u>Duguesclin</u> c1850) GD 22-30p No.1, 8-22cm No.1 shell; UD 24-30p No.2, 8-22cm No.2 shell; SD 20-30p carr., 4-16cm shell. (<u>Breslaw</u> , <u>Tilsitt</u> , and <u>Hercule</u> 1854) GD 26-30p No.1, 4-22cm No.1 shell; UD 28-30p No.2, 4-22cm No.2 shell; SD 20-30p carr., 4-16cm shell in <u>Breslaw</u> , 20-16cm shell in <u>Tilsitt</u> , 20-30p carr., 4-30p No.3 in <u>Hercule</u> .
Complement:	811

Name	Builder	Laid down	Launched	Commiss.	Fate
SUFFREN	Cherbourg	8.24	27.8.29	10.3.31	Stk. 4.4.61
INFLEXIBLE	Rochefort	18.8.27	21.11.39	24.8.40	Stk. 31.12.64
BAYARD	Lorient	1.7.23	28.8.47	1.5.50	Steam 1859
DUGUESCLIN	Rochefort	16.3.23	3.5.48	3.6.50	Steam 1858
BRESLAW	Brest	26.5.27	31.7.48	1.3.54	Steam 1856
CHARLEMAGNE	Toulon	4.34	--	--	Steam 1851
JEAN BART	Lorient	26.1.49	--	--	Steam 1852
TILSITT	Cherbourg	2.3.32	30.3.54	20.5.54	Steam 1856
DONAWERTH	Lorient	27.7.27	15.2.54	1.5.54	Steam 1857
SAINT LOUIS	Brest	13.7.48	25.4.54	20.5.54	Steam 1857
ALEXANDRE	Rochefort	26.5.48	--	--	Steam 1857
FONTENOY	Toulon	6.27	--	--	Steam 1858
MASSENA	Toulon	9.35	--	--	Steam 1860
CASTIGLIONE	Toulon	10.35	--	--	Steam 1860

Class. This type was designed by a commission along lines suggested by Baron Tupinier. It was intended to replace the 74 as the standard ship of the line in the French navy (reinforced in battle fleets by a smaller number of 100-gun and 120-gun ships). The design followed Sané's successful 80 gun ship as closely as possible, but was enlarged to carry a larger armament at a greater height above the waterline (6ft 7in instead of 6ft 2in). The plans were completed in 1.24. Suffren quickly earned the class a good reputation for sailing qualities. Inflexible was completed with a rounded stern which served as a model for conversions of other ships after the late 1840s.

Two more ships, Ajax and Diomède, were among five line of battle ships scheduled to be begun at Brest in 1829 but cancelled in late 1828 before orders were placed. Another, Argonaute, was scheduled to be begun at Toulon in 1837 but was deferred and cancelled in 1838. Breslaw, Donawerth, and Tilsitt, originally named Achille, Alexandre, and Diomède respectively, were renamed 23.11.39. Charlemagne, Masséna, and Saint Louis, originally Hector, Sceptre, and Achille respectively, were renamed 2.4.50. Suffren relieved the frigate Uranie and served as gunnery training ship at Toulon in 1855-60.

Disposals. Suffren became a barracks and supply hulk at Toulon. She was renamed Ajax 8.4.65, was replaced by Jupiter 1872, and was BU 1874. Inflexible became a boys' training ship in 1861 and was BU 1876.

TOURVILLE class sail ships of the line (3rd class, 90)

Displacement:	3750
Dimensions:	195ft 7in wl, 198ft 3in deck x 53ft 3in mld, 54ft 9in ext x 23ft 9in mean
Same, meters:	<u>59.61, 60.42 x 16.24, 16.69 x 7.23m</u>
Masts:	As <u>Hercule</u>
Armament:	(Design) GD 26-30p No.1, 4-22cm No.1 shell; UD 32-30p No.2; SD 24-30p carr., 4-16cm shell
Complement:	811

<u>Name</u>	<u>Builder</u>	<u>Laid down</u>	<u>Launched</u>	<u>Commiss.</u>	<u>Fate</u>
TOURVILLE	Brest	26.8.47	--	--	Steam 1853
DUQUESNE	Brest	4.8.47	--	--	Steam 1853

Class. These ships were designed as razeed 3-deckers. They were near copies of Sané's 3-deck 110-gun Iéna, itself a slightly shortened version of the original Océan class. Iéna was razeed to a 2-deck 90-gun ship 1826-33 and proved highly successful. Leroux's plans for the new ships, approved in 6.47, duplicated Sané's design as closely as possible. The new ships were, however, given new-style round sterns. Because of the origin of their design, they had a hull capacity substantially greater than other 3rd-class ships and were rerated as 2nd-class ships when converted to steam.