

February 27<sup>th</sup> 1877

# Particulars of Iron Masts and Yards of Iron Sailing Ship No. 81. Building by Messrs. Mounsey & Foster

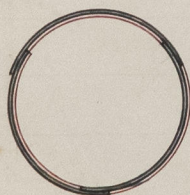
				Diameter Deck	Thickness of Plates
Foremast extreme length	87.0	...	31 inches	...	8/16 and 6/16
Main do do do	90.0	...	32 "	...	8/16, 7/16, and 6/16
Mizen do do do	83.0	...	29 "	...	7/16 & 6/16
Bowsprit do do	46.0	...	35 inches	Dia at Bed	8/16, 7/16 and 6/16
do Outside bed	30.0				

The mast seams are double riveted with 14" and 4 1/2" laps. All the butts are treble riveted with buttstraps outside 1/16" thicker than the plates they connect. The masts are also strengthened at wedging deck with a doubling plate 10.0 long. Mast plates about 10.0 long and are constructed without Angle bars. Masts have three plates in the round as per sketch below. The Bowsprit seams are double riveted with 4 1/2" laps. All the butts are treble riveted with buttstraps outside and 1/16" thicker than the plates they connect. The Bowsprit has also a doubling plate at bed 8.0 long, and a vertical diaphragm plate at bed 10.0 long. The bowsprit is constructed with two Angle bars 4 x 3 x 7/16 extending from end to end in addition to the two short angle bars for securing the diaphragm plate, and have three plates in the round as per sketch below

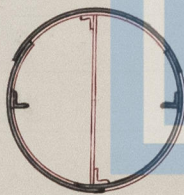
			Dia of Slings	Dia of Ends	Thick <sup>s</sup> of Plate
Fore & Main Yards extreme length	85.1	...	21 inches	10 1/2 inches	7/16, 9/16, 5/8 & 4/8
do do lower Topsail Yards	74.0	...	18 "	9 "	5/16, 4/8 & 3/8
Crossjack Yard	68.0	...	14 "	8 1/2 "	5/16, 4/8 & 3/8

The seams of the Yards are single riveted, the butts of the plates are overlapped and treble riveted, and are constructed without angle bars, and have two plates in the round as per sketch below with a doubling in way of slings 6.0 long

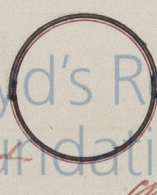
Section of Masts



Section of Bowsprit



Section of Yards



Doubling plates in Red

as fitted  
 5 1/2 x 4 x 10/16  
 from end to end

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