

## NOTE ON THE FRENCH SURVEYING VESSEL « AMIRAL MOUCHEZ »

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The French surveying vessel "Amiral Mouchez" which was commissioned at the beginning of the summer of 1937, is intended to serve as main ship of one of the hydrographic commissions operating in home waters.

Some of its characteristics are as follows :

### A) *Principal characteristics*

Length (between perpendiculars) .....	55 m. 80	(185 feet)
Length (over all) .....	61 m. 95	(203 » )
Beam (water-line) .....	10 m. 52	( 34 1/2)
Draught Fore .....	3 m. 00	( 10 feet)
» Aft .....	3 m. 40	( 11 » )
Displacement in metric tons .....	730	tons
Load displacement .....	820	»
Cruising speed .....	12	knots
Radius of action : about 2500 miles at 10 knots.		

### B) *Machinery Installation*

Two Diesel-Sulzer motors of 500 H.P. each - twin screws.

### C) *Auxiliary Machinery*

Two Diesel-Sulzer generating plants of 100 kw each (one for emergency) to provide current for the windlass, the winches, the steering engine, etc. and for hoisting the boats.

Two evaporators of 4,500 litres each per 24 hours.

### D) *Handling of the Vessel*

- 3 magnetic compasses,
- 1 gyroscopic compass with six repeaters,
- 1 radiogoniometer.

### E) *Boats*

4 power boats, length 7 m. 65 (25 feet), with 20 H.P. Diesel motors and Kitchen rudder.

1 whale-boat of 7 metres (23 feet).

1 dinghy of 5 metres (16 1/2 feet).

The power boats are lowered with oscillating porticos, which are extremely practical.

### F) *Sounding equipment*

1° Wire sounding — A wire-sounding equipment for great depths, with an electric winch for winding in the wire.

A Lucas sounding machine.

2° Echo-sounding — An equipment for echo-sounding by hammer blows, called C.E.T. sounder 1935 (with Marti recorder).

An ultra-sonic sounding equipment (with Marti recorder).

The ship possesses three ultra-sonic projectors (two of 220 cm., one of 310 cm.) to each of which can be adapted either a S.C.A.M. Touly echometre, or an echoscope.

Each of the four power boats is fitted with a movable echoscope (with projector of 110 cm.).

### G) *Plotting room and sundry accommodation*

One large plotting room with centre table.

One auxiliary drawing room.

An office for the Chief Engineer, Head of the Mission.

An office for the junior surveyors.

A laboratory for photographic work.

A laboratory for oceanographic work.

### H) *Staff*

1 Senior Hydrographic Engineer, Head of the Mission.

1 Executive Officer, commander.

3 junior surveyors.

### I) *Crew*

Petty Officers : 19, of which 8 are surveyors.

Second class Petty Officers and seamen : 60.

The surveying vessel "Amiral Mouchez" has been found perfectly adapted to its purpose and the first expeditions in which it has participated have proven its excellent sea-worthiness.

