**Technical Specification of Derricks for Daughter Boats of Tugboats**

**Derrick-01: (Qty-12)**

* Capacity: 1 ton
* Boom Type: Fixed Boom
* Outreach: 2.5 m
* Fully Manually and Electrically Operated for lifting and lowering and slewing operation
* No class certificate required.

**AND,**

**Derrick-02: (Qty-05)**

* Capacity: 1 ton
* Boom Type: Fixed Boom
* Outreach: 2 m
* Fully Manually and Electrically Operated for lifting and lowering and slewing operation
* No class certificate required.

**Onboard Power Supply – 400 V – 50 Hz – 3 Phase**

**Or,**

**200 V – 50 Hz – Single Phase**

**All The Derrick’s weight must be less than 1000 kg (As lightweight as possible without compromising the Strength and Capacity)**

**Total Number of Cranes - 17 Nos.**

**拖船子船上的吊杆式起重机/转臂起重机技术规范**

**吊杆式起重机/转臂起重机-01：（数量 12）**

**容量：1 吨**

**吊臂类型：固定式**

**外展：2.5 m**

**完全手动和电动操作，用于升降和回转操作**

**不需要级别证书**

**吊杆式起重机/转臂起重机-01-02：（数量 05）**

**容量：1 吨**

**吊臂类型：固定式**

**外展：2 m**

**完全手动和电动操作，用于升降和回转操作**

**不需要级别证书**

**舰载电源 – 400 V – 50 Hz – 3 相**

**或者，**

**200 V – 50 Hz – 单相**

**所有吊杆式起重机/转臂起重机的重量必须小于 1000 公斤（在不影响强度和容量的情况下尽可能轻）**

**起重机总数 - 17 台。**