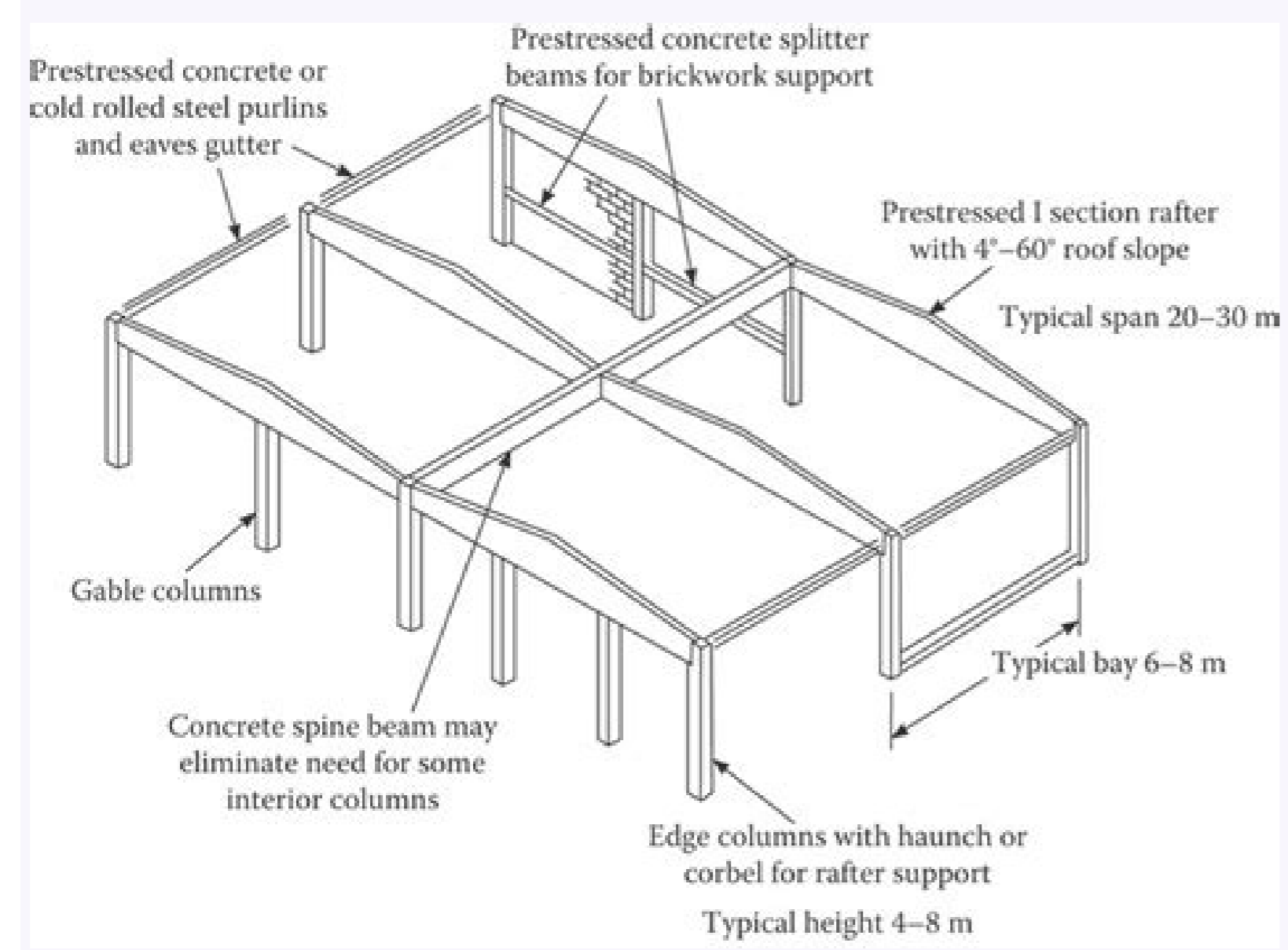
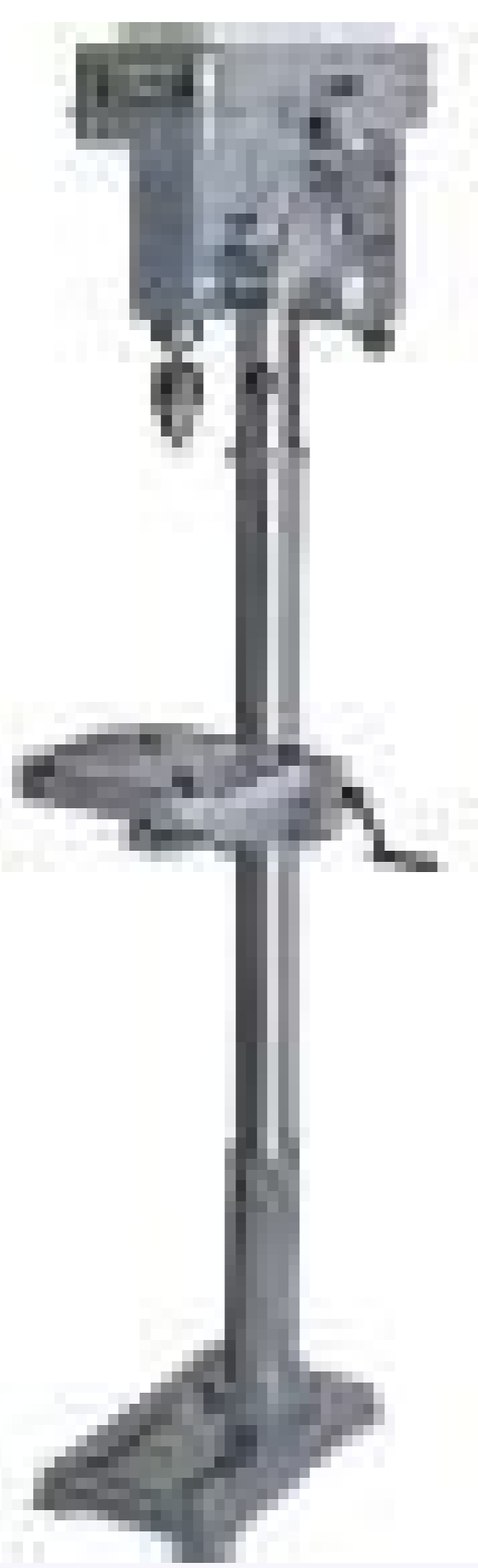


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ELECTROHYDRAULIC STEERING GEAR

The direction of a ship moving through the water is controlled by changing the angle of its rudder(s), located in the stern of the ship. As the gross tonnage of ship increases, more and more force is required to move the rudder(s) through the required angle. On a large ship, the power required to position the rudder is provided by one or more electrohydraulic steering engines which respond to rudder orders transmitted electrically from the helm (steering wheel) in the pilot house to the steering gear, located directly above the rudder(s) in the stern.

The steering engine or gear transmits power from the steering engine to the rudder stock. The term steering gear normally includes the driving engine and the transmitting mechanism. Although several different designs of steering engines are in common use, their operating principles are similar. One example of an electrohydraulic steering engine for a ship with two rudders is shown in Figure 18-2. It

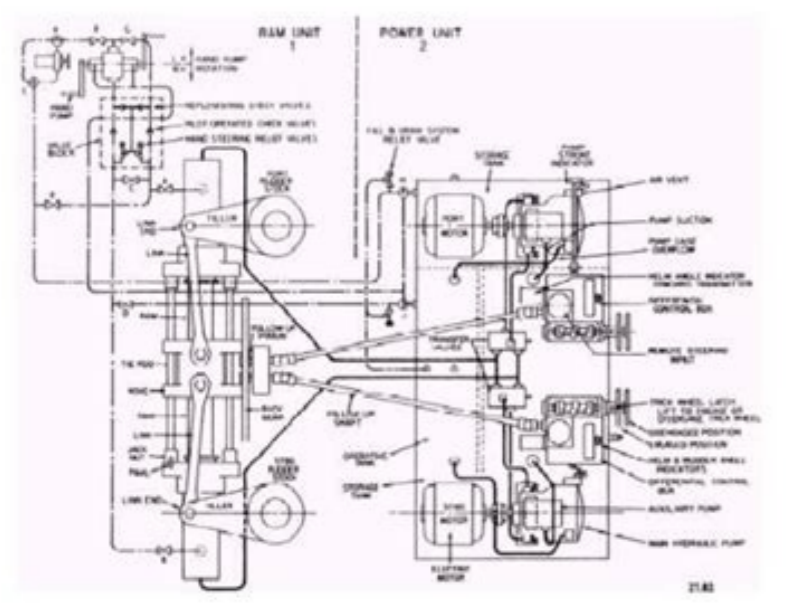


Figure 18-2. Electrohydraulic steering engine.
 consists essentially of (1) a ram unit and (2) a power unit.
Ram Unit



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