

DOCKING AND MOORING

FREE STANDING CAPSTAN (HFSC)



Where
Innovation
is Tradition



FREE STANDING CAPSTANS (HFSC)

Hi-Tech's Free Standing Capstans provide a field proven, safe and reliable method of hauling in the mooring line alleviating the need for mooring crews to haul in the lines manually.

Capstans can be supplied for non-hazardous areas or as an explosion-proof certified unit for installation in hazardous areas. A range of capacities are available to suit many line handling applications.

FEATURES

- Ribbed capstan head and integral rope guide for improved line handling
- Enclosed design for protection from harsh marine environment and mechanical damage
- Reversible direction, emergency stop and automatic brake for improved operator safety
- Rugged low profile footswitch for safer operations

APPLICATIONS

- LNG carrier berths
- Oil berths
- LPG berths
- Bulk liquids berths
- Bulk materials berths
- Commercial (RoRo, ferry, container)

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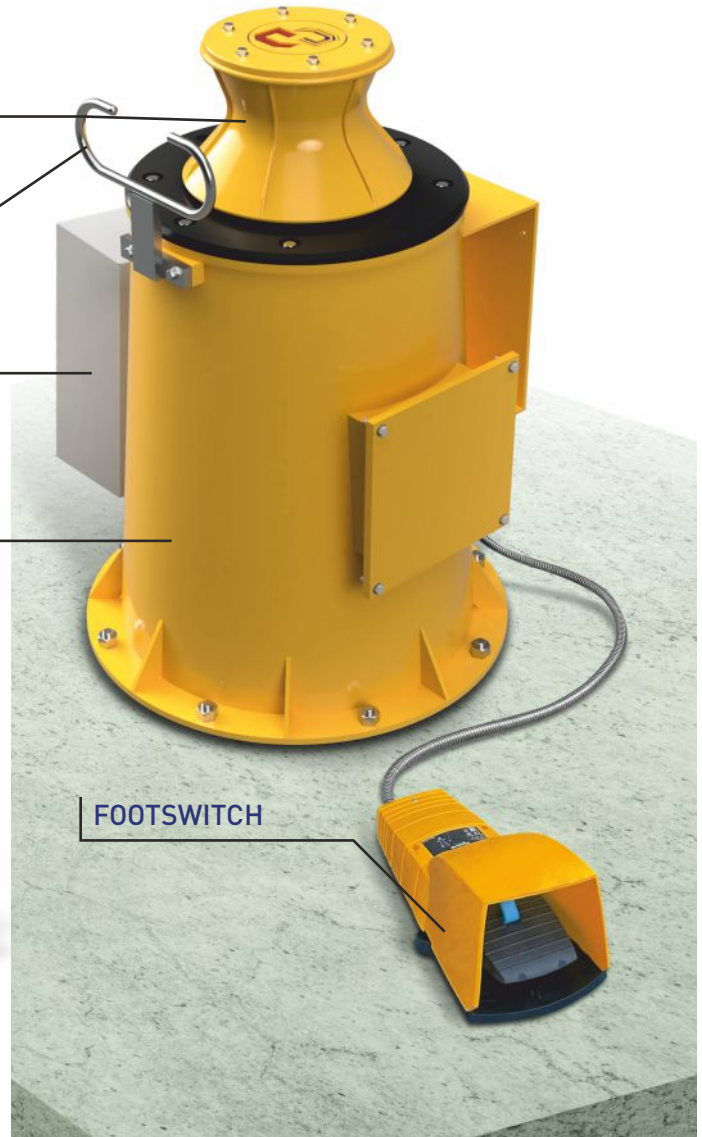
A critical part of the mooring operation, capstans need to be robust and reliable to ensure the line handling process is trouble-free and efficient.

RIBBED
CAPSTAN HEAD

ROPE GUIDE

MOTOR STARTER ENCLOSURE
WITH DIRECTION SELECTOR AND
EMERGENCY STOP

BRAKED CAPSTAN MOTOR +
GEARBOX (OIL-FILLED FOR LIFE),
ENCLOSED IN A PROTECTIVE STRUCTURE



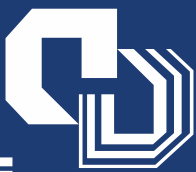
FOOTSWITCH

PERFORMANCE

MODEL	WIRE ROPE DIA<MAX>	LINE PULL SPEED	MOTOR POWER
HFSC 1T	20	15 m/min	5 HP
HFSC 2T	35	20 m/min	10 HP
HFSC 3T	35	20 m/min	15 HP
HFSC 5T	35	20 m/min	25 HP
HFSC 10T	45	10 m/min	25 HP
HFSC 15T	75	10 m/min	40 HP
HFSC 20T	75	10 m/min	50 HP
HFSC 30T	95	10 m/min	75 HP
HFSC 40T	95	7.5 m/min	100 HP

* Capstans upto 50T capacity are available as standard design, for any other capacity please contact Hi-Tech Office.

Line Speed	As shown in performance table
Area Classification	Hazardous or non-hazardous
IP Rating	Capstan motor and motor starter: IP55 minimum Footswitch: Ip68
Holding Capacity	Automatic, spring applied brake when de-energized holding torque > 150% of motor torque
Capstan Controls	Selector Switch: Counter clockwise / OFF / clockwise Emergency Stop Footswitch: Depress to operate
Electrical Supply	3Ø + Earth: 380 to 480 VAC(+/- 5%) @ 50 Hz or 60 Hz (+/- 5%) Note: voltages outside these ranges available upon request



HI-TECH ELASTOMERS LTD.

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