

제목: FW: [D30-25-002] TECH INFO HOW TO USE MOORING WINCH (TENSION DRUM)
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Subject: [D30-25-002] TECH INFO HOW TO USE MOORING WINCH (TENSION DRUM)

Doc : D30-25-002 / TECH INFO HOW TO USE MOORING WINCH (TENSION DRUM)

TO : Master of SUMMIT FLEET
FM : Superintendent of Summit MS / C.W. HAN
DD : 12TH Mar' 2025

1. 선무에 대단히 노고 많으십니다.

Thanks for all crew's effort to safe operation.

2. 표제 건, Mooring winch (Tension Drum)의 사용법 기술 정보를 첨부와 같이 송부 드리니
업무에 참조 바랍니다.

Regarding the subject, We are sending you the technical information on how to use the Mooring Winch (Tension Drum) as attached.

3. Mooring rope 보호 가능한 Jumping stopper 청구 번호는 구매팀 문의 후 재 발송하도록 하겠습니다.

The requisition number for the Jumping Stopper, which can protect the Mooring Rope, will be resent after asking with the purchase team.

감사합니다.

Thank you and best regards

한찬웅(韓燦雄), HAN CHANWOONG, Superintendent



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TECHNICAL INFORMATION [D30-25-002]

HOW TO USE MOORING WINCH (TENSION DRUM)

Mooring line운용시 Slipt Drum의 경우, Shore측으로 나가는 Mooring line은 반드시 Tension Drum을 통하여 인출이 되어야 하며, Mooring Rope 손상 방지를 위해서 Tension Drum측에 최소 4~5바퀴는 감은 후 육상측으로 나아가야 한다.

When operating the mooring line, if you're using a slip drum, the mooring line heading towards the shore must be drawn through the tension drum. To prevent any damage to the mooring rope, make sure to wind it around the tension drum at least 4-5 times before it proceeds towards the shore.

만약, 1~2바퀴 또는 적절하게 Tension drum에 로프를 감지 않고 Storage drum측에서 바로 힘을 받게 될 경우, Storage drum에 감긴 rope가 큰 힘을 받게 되며, 이로 압착, 변형이 발생되어 로프 손상을 일으키게 된다

If the rope is not wound around the tension drum for at least 1-2 turns, or if it does not properly pass through the tension drum and directly receives force from the storage drum, the rope wound on the storage drum will experience significant pressure. This can lead to crushing and deformation, ultimately causing damage to the rope

1. 확인사항 Checkpoints of Tension Drum

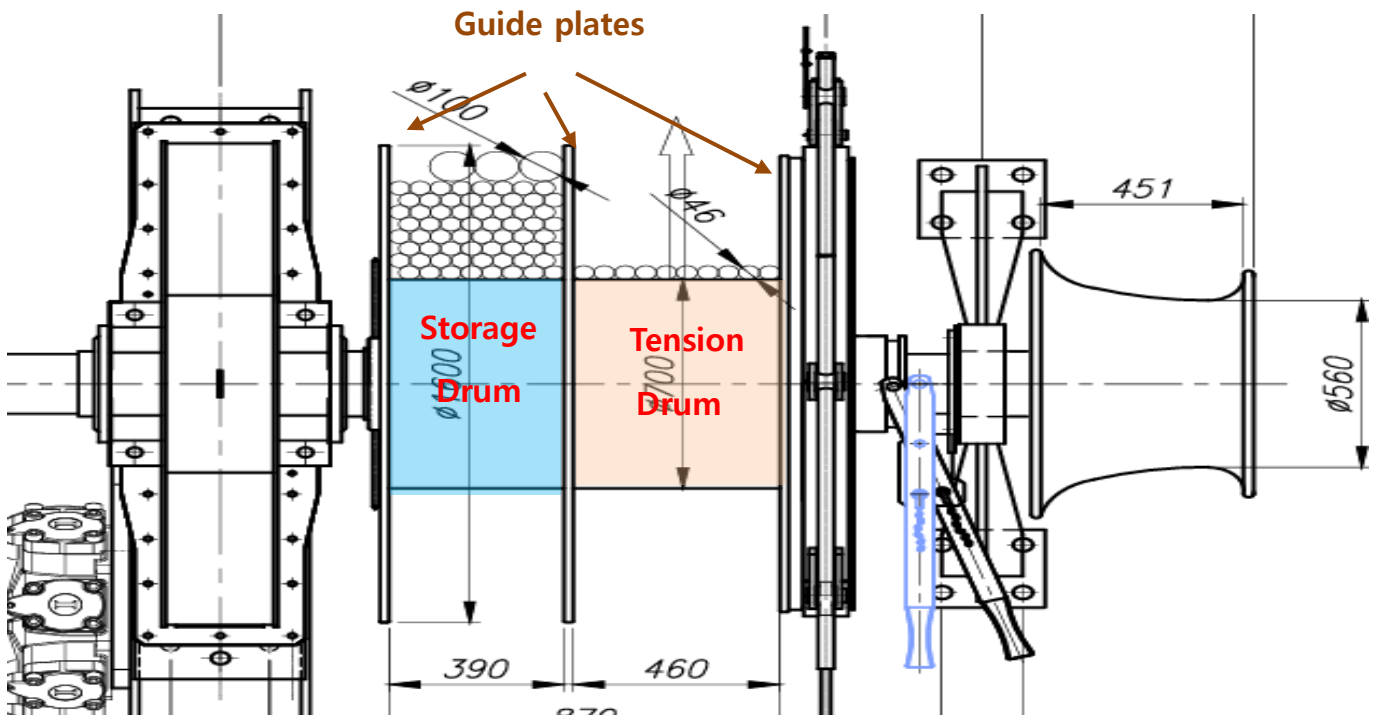
Tension drum측에 감는 횟수 / Number of turned times on the tension drum

- 1) 1 layer 형성 또는 최소 4~5바퀴 / Make one layer or Turned at least 4~5 times
- 2) 2 layers형성시, tension drum에서 압착 됨 / Do not make 2 layers, it will cases damage the **rope**

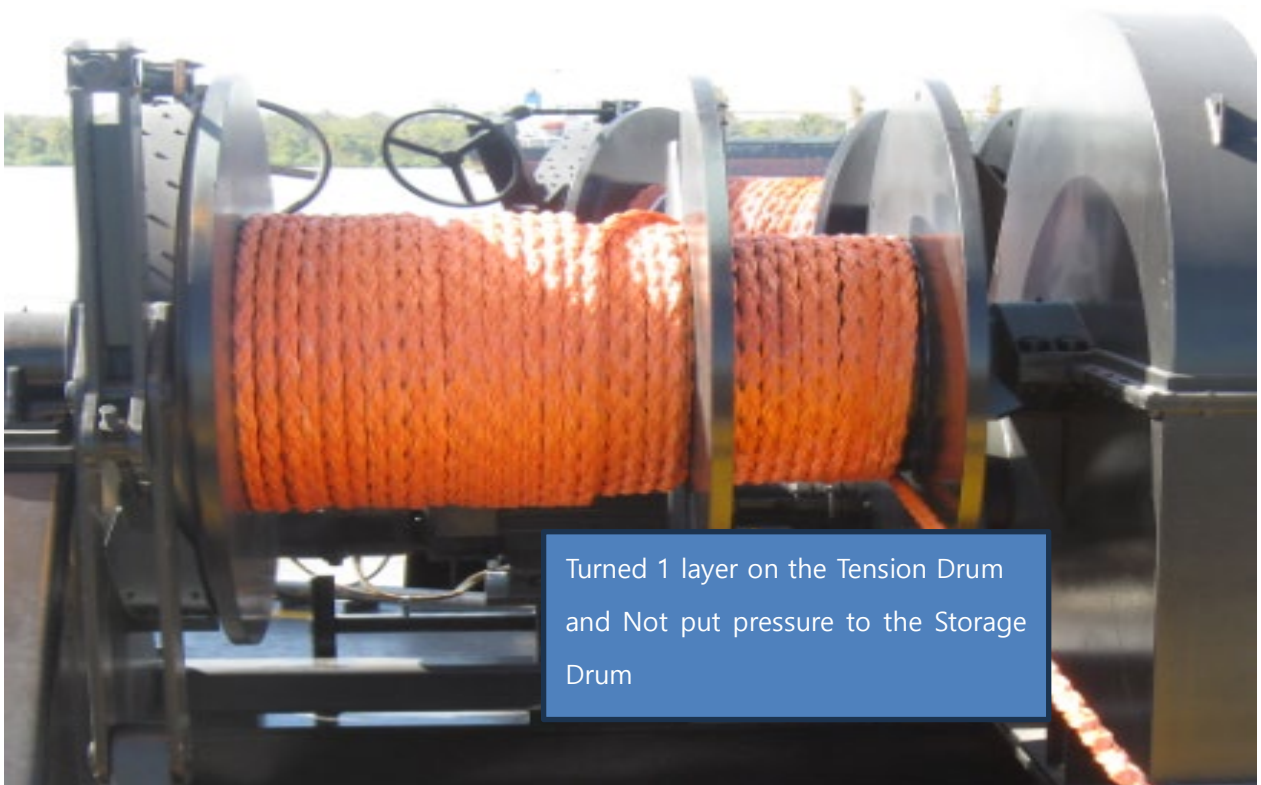
2. 조치사항 Action to do on the ship

- 1) 모든 갑판사관 및 선원 교육 필요 / Need to educate for Deck officers and crews
- 2) Mooring작업시 안전사고에 대한 협의 필요 / Carry out safety meeting for mooring operation works
- 3) Jumping Stopper 청구 및 운용 필요 / Request and Operation Required for Jumping Stopper

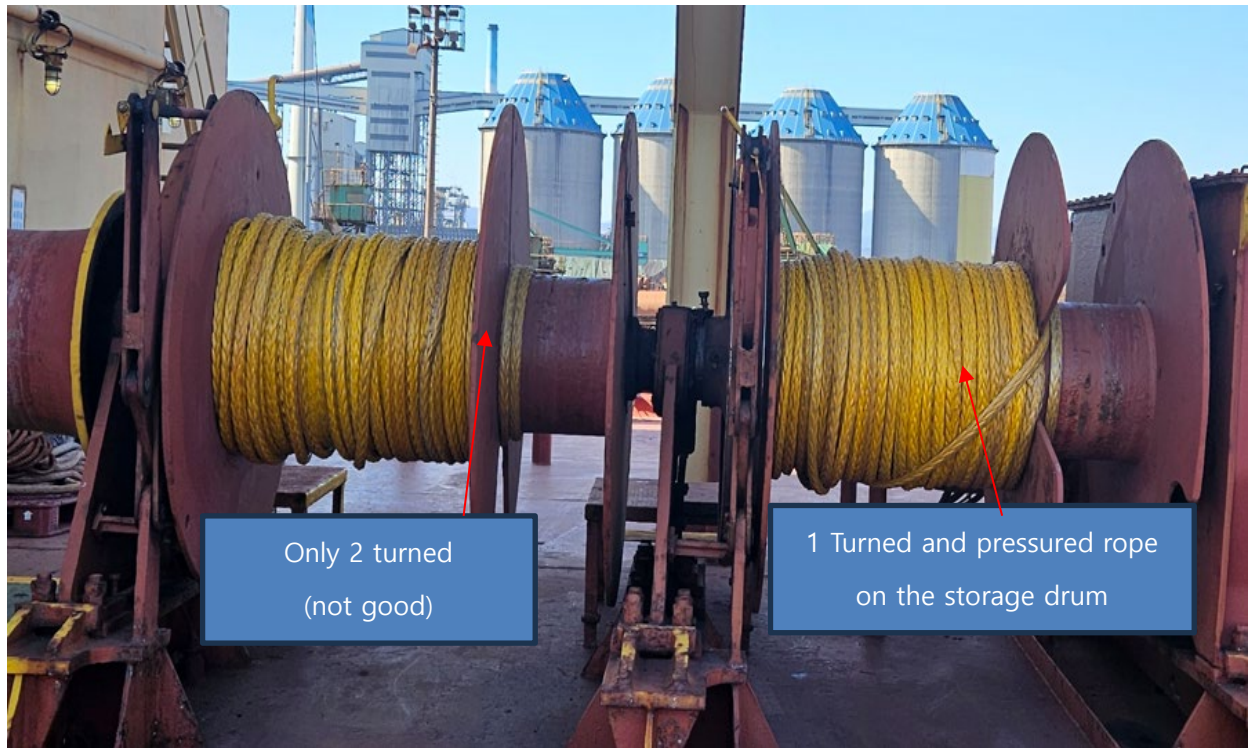
A. Drum Structures



B. 좋은 사례 (Good practices)



C. 불량사례 (Bad Practices)



It must be turned at least 4~5 times on the Tension drum to avoid putting pressure on the storage drum





The motor protect pipe is corroded, and perforated and will cause damage to the ropes soon it should be replaced or covered with a protective cover on the pipe.

D. 기타사항 (Other and references)

- 1) The rust particle will damage the ropes and shorten the lifespan
- 2) The guide plate must be maintained on smooth surfaces



- 3) The jumping ropes (= jumping stopper) can be used on the storage drum to prevent putting pressure while berthed at a port by inserting them in the Mooring ropes.

