ABSTRAK

DESIGN OF WINCH TO DOCK CAPACITY 100 TLC
AT FIBERGLASS PERKASA

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PT Fiberglass Mighty to constitute moving firm at shipbuilding area. Type bounds fast that gets at production for example, fiber's ship, timbered ship and aluminium ship. Along with developing it PT Fiberglass more a lot of accepts tender fiber's ship and wood ship than aluminium ship. In workmanship process bounds fast KNP 356 slightly experience constraints, happening problem is process while raise ship goes to land. It because of KNPS ship measure 356 as big as 28 meters, meanwhile many constraints that most becomes like, rising process descent of ship which is still get manual character and traditional which is with caring assistive tool one pulled by pulley, and this process still utilize employ energy. Therefore needed by dock's makings planning pulls suitably with competence PT Fiberglass Mighty. Solution utilizes electricity motor that attributable to gerbox, then at keeps on to drum (string furling place armor). Its outgrows electric motor energy at count in this report acquired 2133.6 watt = 2.86 HP. To outgrow it corted as big as drum 1500 mm. Drum has one path which function to place armor string. Where is diameter to outgrow it armor string is 45 mm. And before armor string at taping machine goes to drum of course armor string tip at concerns to beneficent drum deep job process from dock pulls this.

Key words: attractive force on caring, charges on string, armor string diameter, puli’s diameter, drum diameter, motor energy, torsion brake, caring speed