

OPTIMIZATION METHOD OF THRUST JACK CONTROL FOR SHIELD TBM CONTINUOUS EXCAVATION

ABSTRACT

A method for optimizing thrust jack control according to the present invention calculates optimally thrusts to be applied by thrust jack groups in operation by using a sine function or a linear function when thrust jack groups installed in a circumferential direction are sequentially retracted (sequentially turned off) in order to perform continuous excavation by a cutter head and spiral lining simultaneously, and to maintain the center of thrust (COT) of thrust jack groups in operation constant and the resultant thrust constantly maximized.

Representative drawing : Fig. 7a