混凝土超大构件机加工中徐变补偿的定位拟合法

THE FITTING POSITIONING METHOD WITH CREEP COMPENSATION IN LARGE CONCR

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中文摘要

　　通过在机加工生产线外测量特征点的方法得到混凝土超大构件的毛坯模型，采用龄期调整有效模量法计算超大构件的混凝土徐拟合算法，以得到机加工时的精确毛坯模型。机加工时只需再次测量少量特征点，并利用徐变补偿算法得到的构件毛坯模型进行匹配工的结果表明，徐变补偿的定位拟合法的拟合精度与在机加工生产线内再次测量所有特征点所得的拟合精度非常接近。

英文摘要

　　The blank model of large-scale concrete component was established by measuring characteristic points outside t effective modulus method, the concrete creep was calculated. Based on fitting algorithm of least-squares estimation algorithm for creep compensation was given to obtain the accurate blank model for machining. When machining, just a with component blank model based on creep compensation algorithm, and then the machining model can be built. The mac track girder show that the fitting precision calculated by position fitting algorithm is very close to that by remea line.