

GQ70 型钢筋切断机的设计

【摘 要】 钢筋切断机是把钢筋切成所需长度的专用机械, 在大型建筑工地上的应用格外广泛。钢筋切断机分为机械传动和液压传动两种。机械传动式钢筋切断机, 工作时大都承受电动机经一级三角带传动和二级齿轮传动减速后, 带动曲轴旋转, 曲轴推动连杆使滑块和动刀片在机座的滑道中作往复直线运动, 使活动刀片和固定刀片相错而切断钢筋。GQ70 型钢筋切断机, 其剪切运动是由一偏心轮连杆机构完成的。但是由于切断机机体内腔狭小, 在装配曲轴连杆时比较困难。尤其是在使用中发生故障需要修理时, 拆卸曲轴连杆更加不简洁, 给修理造成很大的不便, 因此在不转变设备功能的状况下, 我对曲轴连杆机构做了一些改进。改进后的偏心轮构造直接从机体的注册孔中装入和取出。而不必拆卸连杆, 大大简化了装配程序, 减轻的工人的劳动强度。同时也极大的便利了修理, 还简化了零件的工艺过程, 取得良好的经济效益。

【关键词】 钢筋切断机; 偏心轮; 曲轴连杆机构

Design of GQ70 Reinforcing Steel Cutting Machine

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Abstract: Reinforcing steel cutting machine is used to cut the required length of steel machinery specialized for large construction sites in the application of very extensive. Reinforcing steel cutting machine into mechanical transmission and hydraulic transmission of two. Mechanical transmission reinforced cutting machine, working mostly used as a V-belt drive motor and gear drive slow down after two, driven crankshaft rotation, promoting the crankshaft and connecting rod to move the slider blade in the frame of the chute in a reciprocating linear motion So that the activities of the blade and a fixed blade and cut off the wrong steel. GQ70-steel cutter, whose movement from one type of the crankshaft linkage to complete. However, due to cut off the small inner cavity of the body, in the assembly when the crankshaft link more difficult. Especially in the use of a fault in need of repair, demolition crank link more difficult to repair a big change, so do not change the function of the equipment under the circumstances, we have made some improvement to crank linkage. The improved structure of the cam directly from the body of the aircraft registered in the hole and

packed out. Without dismantling the link, greatly simplifies the assembly, reducing labor intensity of workers. But also greatly facilitate the maintenance, has also simplified the process of parts and achieved good economic returns.

Key words: Reinforcing steel cutting machine; eccentric wheel ;Crankshaft Linkage

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