Composition of roller box.

Roller box main case, plate, (left and right) roll shaft, 8-shaped panel, (left and right) eccentric locking collar parts, taper sleeve, adjustment feed screw and nut.

Technical characteristics

1. Roller box adapt carbon steel to make sure the intensity of case. And use the annealing aging treatment to guarantee the stability of casting. It is not allowed to have holes, sand holes and cracks after roughing. Main case use high accuracy too to produce every holes to insure the total accuracy and the interchangeability & versatility between panel and main case. Rear side plate and front plate use No.45 steel to temper. Main case, rear side plate and front plate used high accuracy machining tool (such as NC working centre) to ensure the high accuracy requirement of the location of eccentric locking collar and roll shaft.

2. Roll shaft used low carbon alloy steel blank, after roughing, axis need to take ultrasonic flaw detection process to quench. In order to ensure the tooth surface with high hardness, tooth surface need to take carburizing and quenching treatment after semi-finishing. Fine grind of every round and the back of axis insure its accuracy & durableness with taper sleeve and tooth surface. When the produce process of roll shaft finished, we need to take the balance test to insure the rotary accuracy during roll shaft's high speed rotation (7500 Rev/min).

3. Eccentric locking collar adapt carbon steel workpiece, inner diameter and eccentric round used fine machining tool to ensure the eccentric distance and accuracy of inner and outer diameter. Then, the adjustment accuracy of roll gap and the Interchangeability of every eccentric locking collar are ensured.
4 The front panel, real plate and internal parts are mostly made of medium carbon steel and processed by hard chrome plating and anti-corrosion treatment to increase the lifetime.

5 To make sure the assemble accuracy of roller box can reach the design requirement, a four-hour idling high-speed trial is conducted upon the assembly of roller box and bevel gear box, a smooth and stable sound and no oil leakage from the joint surface are necessary.

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