



Mechanical Symmetrical 3 Roller Plate Bending Machine

1. The whole structure of Mechanical Plate Rolling machine:

- 1). The machine adopts 3-roller symmetrical structure with the upper roller moving vertically in the center between the two lower rollers, which is achieved through the drive of the screw, the nut, the worm and the lead screw.
- 2). The two lower rollers rotate, and provides the plate materials with torque through the engagement of the output gear of the motor with the gear of the lower rollers.
- 3). Adapted for bending metal plate into round, arc, and so on. Its working principle is rotary bending deformation. This product is widely used in chemical industry, Cement, shipbuilding, boiler, aviation, water control project, Power Transmission Tower, metal structure and the industry of making machinery.

2. The Feature of Mechanical Plate Rolling machine:

- 1). The machine adopts 3-roller asymmetrical structure with the upper roller as the main drive and the lower roller making vertical movement so as to clamp the plate materials tight. The machine drive comes from the engagement between the gear of the lower roller and the gear of the upper roller.
- 2). The machine is the most precise 3-roll machine in its category. The RGS design reduces to a minimum the distance between the bending points guaranteeing higher bending accuracy.

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3). The Ultra wide roll support with lubrication circuit is mounted within linear slides to prevent wear and tear.

4). The very high rotation power is a guarantee of the Machine superior rolling torque and speed, available without loss of energy as all three rolls are driven independently by Gear and gearboxes directly coupled to the rolls shafts.

3. Major parts of the manufacturing process:

1). Working rollers: Cast steel ingot (chemical composition analysis): Check performance-forging roughcast — Forging annealing-UT flaw — Roughing (mechanical tests)-heat treatment (hardening and tempering) — UT flaw — Semi finishing — Finishing — MT

2). Large forgings: Cylinder body, gear, gear shaft forging roughcast — Surface inspection roughing — UT flaw — UT flaw detector heat treatment — Finishing semi— Finishing — MT

3). Welding structure: Racks, chassis, wheel box Plate into the factory (chemical composition analysis, mechanical properties test) — Pretreatment — For sheet metal cutting-welding-seam UT or RT flaw — Annealing treatment — Roughing-finishing— Vibration destressing— Hot blasting — Finishing

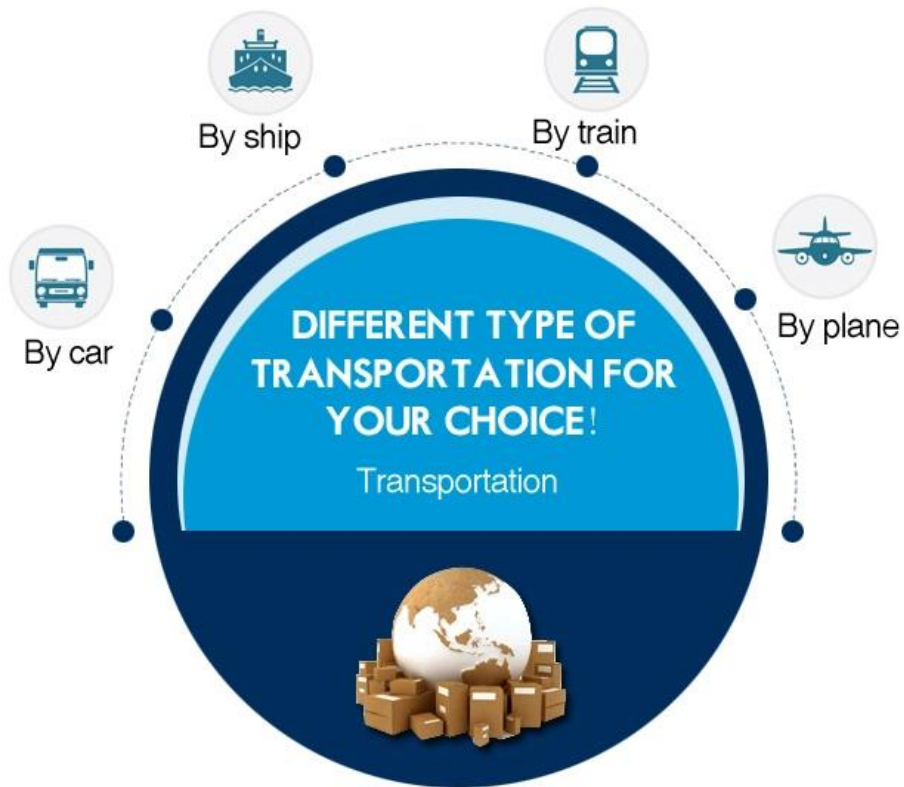
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