Designing of Assistive Drive Releasing Damper Bushing (Rear Wheel Damper Bush) on The Rear Hub Motorcycle

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Abstract
In the process of releasing the damper bush (Rear Wheel Damper Bush) at the rear hub a motorcycle usually in the small workshops have difficult caused the releasing be done with machining process, that is by drilling, welding, and manufacture in the screw. This may causes damage to the damper mounting bush, costs of disposal fees are costly and time required very long in the releasing of the damper bushing. Therefore designed it tools to releasing damper bushing (Rear Wheel Damper Bush) on the rear hub a motorcycle.

In designing the tools releasing damper bushing (Rear Wheel Damper Bush) on the rear hub a motorcycle out a study of literature and site observation, after that do the design tool then made dimensional tool. Then performed calculations used for the analysis of materials selection process. Furthermore testing tool to determine tool works well or not.

Than of planning and calculation results obtained the required force to releasing damper bush (Rear Wheel Damper Bush) on the force at 1415 N and the load required to compress the jig pin on bushing clamp of 78.35 N. For the selection of materials using the "Steel St. 42, St 60 and St 90 ". Mechanism of action of the tool using the power screw to facilitate the process of releasing the damper bush.
Keyword : Rear Wheel Damper Bush, Power Screw, Rear Hub, Steel St 42, St, 60 and St 90.