ABSTRACT

Now days, the development of motorcycle technology get more rapidly and the costumer's demand for qualified product obligate the manufacturer to produce it. Chain is one of important component of motorcycle as power transmission element from engine to tire, determining the quality of motorcycle itself. Roller chain is considered to be less benefit using recently.

Silent chain is made to overcome the problem, which has sliding contact with sprocket so that noise can be reduced and it has lifetime more longer than roller chain.

Software is made to design silent chain by using Borland Delphi 5.0. The computer program will produce model and dimension of tooth plate, guide plate, pin and sprocket, chain link and chain force applied.

Key word: power transmission, silent chain, sprocket, design, software