SIMULASI *GEARLESS TRANSMISSION* MENGGUNAKAN PERANGKAT LUNAK AUTODESK INVENTOR PROFESSIONAL 2016

Zuhri Nurisna [1], Muhammad Ismu Sanjaya [2]
D3 Teknik Mesin Program Vokasi Universitas Muhammadiyah Yogyakarta[1,2]
Jl Lingkar Selatan Tamantirto, Bantul, Yogyakata 55183 tlp : (0274) 387656
E-mail : sanjaya.ismu@gmail.com

ABSTRAK

Gearless transmission dirancang menggunakan perangkat lunak Autodesk Inventor Professional 2016 dengan menerapkan prinsip kerja yang sama dengan roda gigi, akan tetapi dengan desain yang lebih simple dapat menyalurkan daya yang lebih besar dibandingkan roda gigi.

Tujuan merancang *gearless transmission* ini adalah untuk membuka kembali wawasan tentang transmisi dasar yang dapat diterapkan di berbagai produk mesin yang membutuhkan sistem transmisi dan juga memanfaatkan *software design* Autodesk Inventor Professional 2016 yang telah dipelajari pada masa perkuliahan.

Hasil dari rancangan yaitu keberhasilan dalam merancang *gearless transmission* dan mensimulasikannya menggunakan perangkat lunak Autodesk Inventor Professional 2016.

Kata kunci : Autodesk Inventor Professional 2016, *Gearless Transmission*

SIMULATION OF GEARLESS TRANSMISSION USING SOFTWARE AUTODESK INVENTOR PROFESSIONAL 2016

Zuhri Nurisna [1], Muhammad Ismu Sanjaya [2]

D3 Teknik Mesin Program Vokasi Universitas Muhammadiyah Yogyakarta[1,2]

Jl Lingkar Selatan Tamantirto, Bantul, Yogyakata 55183 tlp : (0274) 387656

E-mail : sanjaya.ismu@gmail.com

ABSTRACT

Gearless transmission is designed using Autodesk Inventor Professional 2016 software by applying the same working principle to the gears, but with more simple design can transmitting more power than gears.

The goal of designing this gearless transmission is to reopen insights about basic transmission which can be applied in various machine products that require transmission system and also make it by software design Autodesk Inventor Professional 2016 which has been studied during lectures.

The results of the design is gearless transmission able to designed and simulated by Autodesk Inventor Professional 2016.

*Keywords :*Autodesk Inventor Professional 2016, *Gearless Transmission*