

# Bomba Centrifuga Autocad 3d

**Santiago Andrés Fajardo García**

*Modelamiento de una bomba centrifuga en CFD e impresión del prototipo 3D* Santiago Andrés Fajardo García, 2018 Los modelos de Dinámica de Fluidos Computacional (CFD) han sido de gran ayuda para entender los fenómenos de transporte, además de ayudar en la predicción de resultados experimentales. El presente proyecto expone un modelo de CFD de una bomba centrifuga de agua (caso 1), con un flujo másico de 186 kg/s y una velocidad de 1770 RPM. Con el modelo se hallaron perfiles de velocidad, presión y curva característica. Se realizó una nueva bomba (caso 2) en CAD, se imprimió en 3D y se construyó un modelo experimental con la bomba en funcionamiento, esta bomba trabaja con un flujo másico de 0.33 kg/s y una velocidad de 750RPM. Se realizaron comparaciones con respecto a los perfiles y curvas entre los datos de teóricos y los datos experimentales para los dos casos. Los dos modelos de CFD se desarrollaron en STAR-CCM+ v11.04 utilizando un modelo de k-E para la turbulencia...

**Desarrollo de un prototipo de turbina de bomba centrífuga solar con tecnologías de impresión 3D.** Cristian Pratcorona Bernardo, 2016 En los últimos años, la energía solar térmica se ha ido consolidando como método de aprovechamiento de calor para la producción de agua caliente sanitaria (ACS), especialmente después de la aparición de normativas que obligan a los edificios de nueva construcción a tener este tipo de instalaciones. Esto ha provocado un aumento notable de la superficie solar térmica en el país. Aunque, la realidad es que las instalaciones han envejecido progresivamente quedando una gran parte inoperables. Esto sucede porque los propietarios de dichas instalaciones no invierten en repararlas a causa de su elevado coste. Una de las principales causas de que no se reparen es por culpa de la bomba centrifuga. Este elemento del circuito sufre un desgaste abrasivo debido a que con el tiempo el líquido anticongelante que circula por su interior se vuelve ácido. Aunque el verdadero problema está en que no hay recambios para este tipo de bombas, entonces la solución es comprar una de nueva y esto supone un coste muy elevado. Es aquí donde entra el presente proyecto. El actual trabajo se centra en el diseño y creación mediante las tecnologías de impresión 3D de un prototipo de rodete para este tipo de bombas. En concreto de la Grundfos Solar 25-120 180, una de las más utilizadas en este tipo de instalaciones, consiguiendo así una posible reparación para esta pieza y habilitando a los usuarios a poder invertir mucho menos dinero para su reutilización. La elección de esta bomba viene dada primero, porque como ya se ha mencionado, es una de las más utilizadas. Segundo, porque gracias a RDmes Technologies, se dispone de esta bomba y se tiene la oportunidad de

visitar una instalación real en funcionamiento con este elemento.

## **Numerical 3D Simulation of Unsteady Cavitating Flow in Low Specific Speed Centrifugal Pumps and Analysis of the NPSH Characteristics and Void Structures** Phillip Limbach,2019

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