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LEMBAR BIMBINGAN SKRIPSI

Nama : Fendy Nia Pradana
NIM : 191020700032
Prodi : Teknik Industri
Judul Skripsi : Designing A Household Waste Shredder Machine Using The Quality Function Deployment Method (Perancangan Mesin Penghancur Sampah Rumah Tangga Menggunakan Metode Quality Function Deployment)

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6	23-08-2024	Revisi bab 2 dan 3 setelah sempro	
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8	04-12-2024	Revisi abstrak pada artikel	
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BERITA ACARA VALIDASI KARYA TULIS ILMIAH

Nama Mahasiswa : Fendy Nia Pradana
NIM : 191020700032
Program Studi : Teknik Industri
Fakultas : Sains dan Teknologi

MENYATAKAN bahwa, karya tulis ilmiah dengan rincian:

Judul : **Designing A Household Waste Shredder Machine Using The Quality Function Deployment Method (Perancangan Mesin Pencacah Sampah Rumah Tangga Menggunakan Metode Quality Function Deployment)**

Kata Kunci : Portable Shredder, Inorganic Waste, Quality Function Deployment, Ergonomic Design, Waste Management. (Mesin Pencacah Portabel, Sampah Anorganik, Quality Function Deployment, Desain Ergonomis, Pengelolaan Limbah.)

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Ketua Penguji : Ribangun Bamban Jakaria, ST.,MM.
NIK/NIP : 213359

Validator 1 : Dr. Atikha Sidhi Cahyana, ST.,MT
NIK/NIP : 201179

Validator 2 : Indah Apriliana Sari W, ST.,MT
NIK/NIP : 20282



Mengetahui,
Ka. Prodi Teknik Industri

(Indah Apriliana Sari W, ST.,MT)
NIP/NIK : 20282

Sidoarjo, 30 / 01 / 2025
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(Ribangun Bamban Jakaria, ST.,MM.)
NIP/NIK : 213359



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Designing A Household Waste Shredder Machine Using The Quality Function Deployment Method
Fendy Nia Pradana¹, Ribangun Bambang Jakaria²
Universitas Muhammadiyah Sidoarjo^{1, 2}

ARTICLE INFORMATION	ABSTRACT
Journal of Science and Technology - Volume 28 Number 2, December 2024 Page: 161 - 166 Date of issue : December 30, 2024 DOI: 10.31484/jip.2024.v28i2.5834	Household waste, especially biogenic waste, is becoming an increasingly pressing challenge in waste management in the community, which can have a negative impact on the environment. If not handled properly, this research aims to design a portable, effective, and efficient household waste shredding machine by developing essential attributes such as automatic, ergonomic, easy to operate, durable, safe to use, low cost, easy to disassemble, not easily damaged, and easy to move. The method used is Quality Function Deployment (QFD), which enables the identification and fulfillment of user expectations through in-depth analysis of the voice of the customer. The results showed that of the attributes developed, the most dominant attributes were safety in use and ease of operation, followed by portability and durability. Meanwhile, users considered attributes such as ease of disassembly and low cost less critical. The resulting machine design is able to fulfill all the criteria set by users. It provides an innovative solution to improve the efficiency of biogenic waste management at the household level to provide convenience, safety, and portability in use. From the weighting and attribute values, the most dominant order to the list of attributes of easy to move with a value of 100.42, easy to disassemble 9.464, safe when used 8.911, ergonomic 8.151, easy to operate 8.050, durable 6.248, low cost 3.439. The machine is not easily damaged 5.283, automatic 1.110. Keywords: Portable Shredder, Inorganic Waste, Quality Function Deployment, Transcode Waste Management

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ABOUT THE AUTHORS

Fendy Nia Pradana
Muhammadiyah University of
Sidoarjo
Indonesia

Ribangun Bambang Jakaria

[https://orcid.org/my-orcid?
orcid=0000-0002-9718-8462](https://orcid.org/my-orcid?orcid=0000-0002-9718-8462)

Muhammadiyah University of
Sidoarjo
Indonesia

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