ICIASTECH 2019

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Conference	Paper title (details)	Status	Edit	Add and delete authors	Withdraw	Session	final manuscript
ICIASTECH 2019	*The Effect of Austenization Temperature in Surface Hardening Process on Steel Plate as Ballistic Plate*	Accepted		⊞	⊗		

EDAS at 172.30.0.246 for 202.93.228.81 (Wed, 05 Jan 2022 09:35:17 +0700 WIB) [User 1722714 using Win7:Chrome 96.0 cached 0.061/0.277 s] Request help

ICIASTECH 2019

#68 (1570591143): The Effect of Austenization Temperature in Surface Hardening Process on Steel Plate as Ballistic Plate

#68 (1570591143): *The Effect of Austenization Temperature in Surface Hardening Process on Steel Plate as Ballistic Plate*

bib

Property	Change Add	Value
Conference and *track*		**The 1st International Conference on Innovation and Application of Science and Technology 2019** - *Mechanical and Mechatronic Engineering*

	Name	ID	Edit	Flag	Affiliation (edit for paper)	Email	Country
Authors	Helmy Purwanto	1722714			Universitas Wahid Hasyim, Indonesia	helmypurwanto@unwahas.ac.id	Indonesia
	Muhammad Dzulfikar	1723688			Universitas Wahid Hasyim, Indonesia	dzulfikar@unwahas.ac.id	Indonesia

Title	Only the chairs can edit	*The Effect of Austenization Temperature in Surface Hardening Process on Steel Plate as Ballistic Plate*
Abstract	Only the chairs can edit	Ballistic resistant plate is a plate that is able to withstand the rate of projectiles. Ballistic resistant plates or armor plates are applied to military vehicles. It requires a combination of hardness, strength and toughness. Surface hardening with heat treatment is carried out to obtain ballistic resistant properties. The article is aimed at increasing the hardness of one of the surface in commercial medium carbon steel. The variation of austenization is done at the temperatures of 700, 800 and 900oC with induction heating and holding time for 3 seconds. The quenching media used 15 litters of oil. Several tests are conducted: The results of surface hardening are observed in microstructure, distribution of hardness is tested by micro vickers, tensile testing and impact testing. Tensile testing in accordance with ASTM E8 standards and impact testing with E 23 standards. The transformation of ferrite and perlite to marten site is obtained on the surface of the plate in the temperature of 900oC. At that temperature, hardness increases on the surface and tenacity can be maintained. In addition, the value of hardness, tensile strength and impact energy were significantly increased. Impact energy as a material requirement for ballistic resistance had been achieved, but hardness and tensile strength still need to be increased.
Keywords	Only the chairs can edit	Surface hardness; induction heating; ballistic resistance
Topics	Only the chairs can edit	Mechanical and Mechatronic Engineering
Presenter(s)	⊞	Helmy Purwanto (bio)
DOI	Only the	

	chairs can edit	
Status	⊗	Accepted However, authors cannot upload: paper status

Review manuscript	Document (show)	Pages	File size	Changed
		8	1,860,454	Sep 2, 2019 01:15 Asia/Jakarta

docx	authorname	Doubleblind conference, but author name 'Purwanto' is visible on first page. (This is only a warning; ignore if false positive.) See FAQ for details.	-
docx	header	There should be no header preceding the paper title 61 (Open Access proceedings Journal of Physics: Conference series).	-

Final manuscript	Could upload until Sep 11, 2019 23:59 Asia/Jakarta.	However, authors cannot upload: final deadline

Personal notes

You are the creator and an author for this paper. You have authored an accepted paper.

Reviews

2 Reviews

Review 1

Relevance and Timeliness	Technical Content and Scientific Rigour	Novelty and Originality	Quality of Presentation	Recommendation
Good. (4)	Solid work of notable importance. (4)	Some interesting ideas and results on a subject well investigated. (3)	Readable, but revision is needed in some parts. (3)	Accept if room (3)

Recommended Changes (Recommended changes. Please indicate any changes that should be made to the paper if accepted.)

- many error language and missing article.
- please write aim of the research, methodology, results and conclusion in abstract.
- Add the aim this paper at the end in introduction part.
- Add latest references in introduction part to show results done by other researcher.

Review 2

Relevance and Timeliness	Technical Content and Scientific Rigour	Novelty and Originality	Quality of Presentation	Recommendation
Good. (4)	Valid work but limited contribution. (3)	Some interesting ideas and results on a subject well investigated. (3)	Readable, but revision is needed in some parts. (3)	Definite Accept (I will champion this paper at the TPC meeting) (5)

Recommended Changes (Recommended changes. Please indicate any changes that should be made to the paper if accepted.)

The title indicate application of hardening for ballistic application. But, discussion and experiments are only discuss about hardening process. Thus, for improvements, if author has data relating to ballistics test, it should also be discussed.

However, in terms of hardening test, this research meet scientific criteria. Discussion and figures are narrated in good manner.

There some errors in grammatical writing.
Introduction provide logical explanations for the background of research.

Conclusion: to general information should be avoided.
On references, please check with the conference formats.

unwahas
UNIVERSITAS WAHID HASYIM

Helmy Purwanto <helmypurwanto@unwahas.ac.id>

[ICIASTECH 2019] Information about paper #1570591143 (The Effect of Austenization Temperature in Surface Hardening Process on Steel Plate as Ballistic Plate) has been changed

2 pesan

iciastech@widyagama.ac.id <iciastech=widyagama.ac.id@edas.info> 18 September 2019 13.04
Balas Ke: iciastech@widyagama.ac.id
Kepada: Helmy Purwanto <helmypurwanto@unwahas.ac.id>, Muhammad Dzulfikar <dzulfikar@unwahas.ac.id>

Dear Dr. Helmy Purwanto:

Information about your paper #1570591143 ('The Effect of Austenization Temperature in Surface Hardening Process on Steel Plate as Ballistic Plate') for ICIASTECH 2019 was changed by Helmy Purwanto (creator, author, accepted):

Helmy Purwanto is presenting the paper

No further action is required from you.

If you have already submitted your manuscript, you can change it at any time before the deadline by web form upload.

You can see all your submissions, using the EDAS user name helmypurwanto@unwahas.ac.id. From there, you can see the current status of the papers, whether a manuscript has been submitted and can edit the paper information.

You can directly view information about your paper.

Once you update your manuscript, you will receive another email confirmation.

Regards, Gigih Priyandoko
ICIASTECH Chair

Helmy Purwanto <helmypurwanto@unwahas.ac.id> 21 September 2019 03.48
Kepada: iciastech=widyagama.ac.id@edas.info

Berikut kami kirimkan makalah revisi berdasarkan komentar dan masukan dari para reviewer, terimakasih
[Kutipan teks disembunyikan]

iciastech2019_helmy_ FINAL_revisi.docx
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