LIST OF PROJECTS COMPLETED

BY

Dr.V.SIVARAMAN Ph.D.(IITM)
DIRECTOR (Industry Institute Relations) EGSPEC

* For Internal Circulation

FRP BOAT Model 1

FRP BOAT Model 2

FRP BOAT MOLD

BATTERY POWERED THREE WHEELER

MULTI PURPOSE E-Vehicle

This battery operated vehicle can be used to

1.Transfer patients 2. Transport goods 3. Mobile Book shop

Specifications:

1. 48V42Ah Li-ion battery (4-5 hrs charging, 25km/hr speed, 40-50km distance)
2. Loading capacity 500 kg.

MAKE IN INDIA

PAPASURE

Safe Care Products...

- Clean and Smokefree UV-C STERLIZER
- Affordable Price
- Portable and Compact
- Zero Maintanance
- Multipurpose Sanitizer for - Cosmetics, Stationary, Cutleries, Toiletries...
- Suitable for all places - Home, Office, Institutions, Hotels, Hospitals, Banks, Shops

Product Designer

Dr. V. Sivaraman M.Tech., Phd (IITM)
Director (Ind. Inst. Relations)
+91 9843473434
vs@egspec.org / iitmvs@gmail.com

Promoter

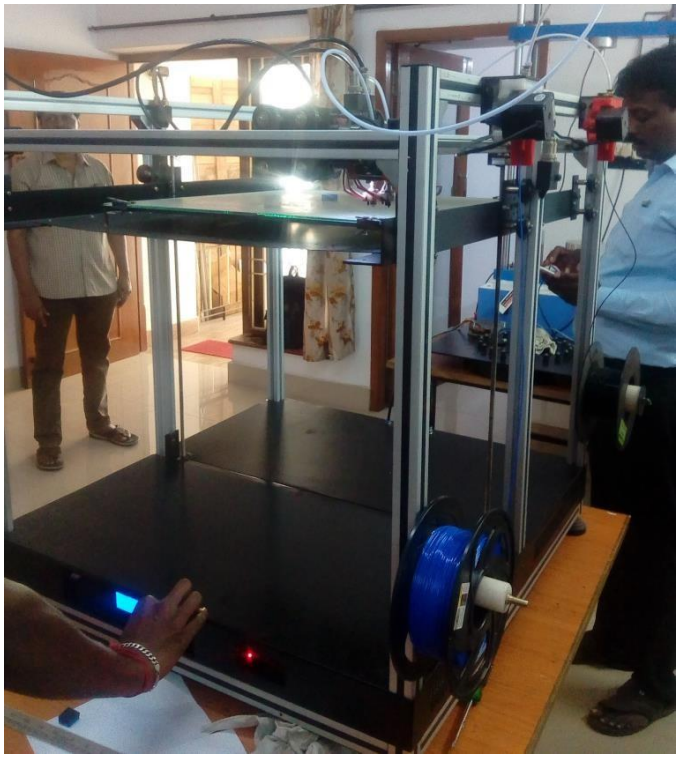
E.G.S. PILLAY ENGINEERING COLLEGE
(An Autonomous Institution,
Accredited by NBA & NAAC 'A')
Nagapattinam, Tamil Nadu, India.

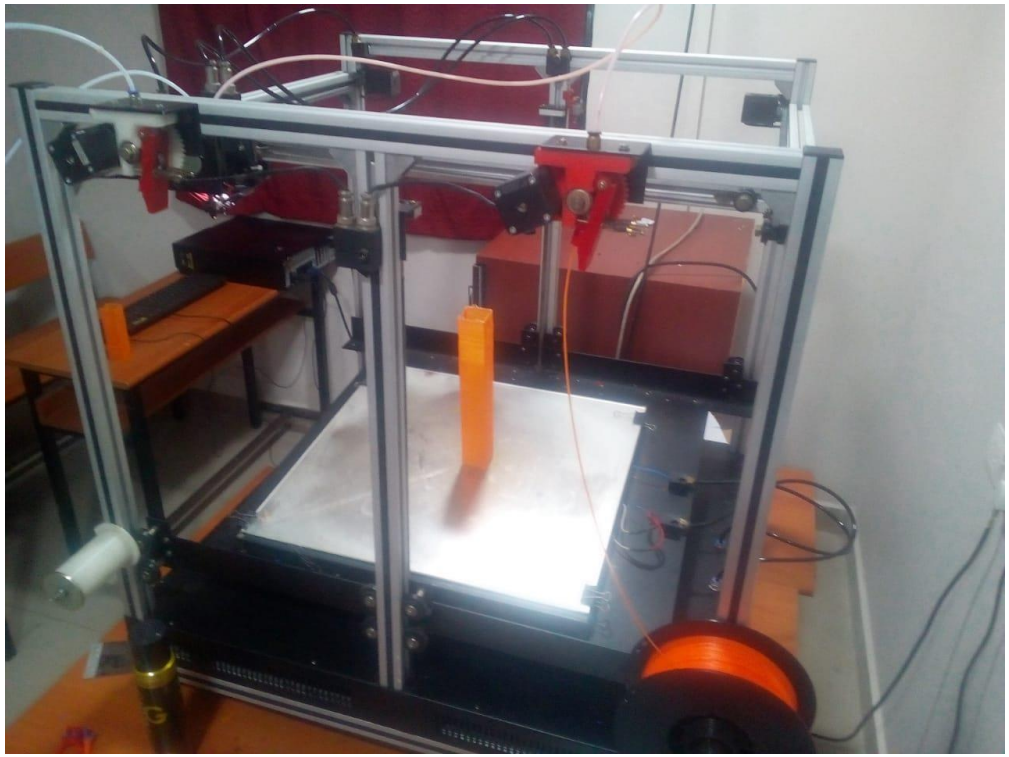
For Orders and Queries:

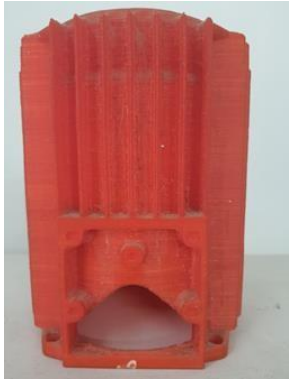
nRoot Technologies Pvt Ltd.
#139/1B, nRoot HQ, Near Air Force Station Thanjavur,
Mappillai Nayakkanpatti, Pudukkottai Road,
Thanjavur - 613403, Tamil Nadu, India.
www.nroot.in / admin@nroot.in / +91 9500623359

Innovations by Instinct...

3D PRINTER DEVELOPED BY OUR GROUP (EGSPEC) WITH INDUSTRY SUPPORT







About Inventglo

+nnovaave product design and engineerJng solutions acras multiple seMors We have complete access to sophisticated Labs and Advanced Centres of Excellence of National Tnstitu\e of

oWer multiple services such as 3D metal printing, technoiogy development Mr eieMric vefiicles, Ai powered IoT based smart systems, reverse engineering, micro/nano manufacturing, laser processing

employees on vanous domain on need basis Inventglo z an Incubatee of GenteT for Entrepreneurship Development and Incubation (CEDI), a Section 8 independent company promoted

our webs fte are available with ditferenl Labs and Cenlres a! Exceilence of NiT, Tnchy which will be accessed on consultancy basis. Inventglo is a regisiered sTaMp in Slanup India and recognized by ltte Departmenl o1 Infiuslnal Poi'<r and PromoJio n, Minislry of Comrterce and Indushy, Govemmen1

Our Vision

*ooWr e‹ ino»gyss!hosio

competitiveness, market reachadilty and sc'cieta1 beneil.

Our Mission

Toengage+acv+p, sudenaa dTMusmaswfor

To utilize the best of the technology Mr produm design
To promote extensive Insâtutional R&D for societal

Ac

Home Our Team Services Our Products News and Events Careers Contact

methodology and holds Green Belt from GE Healthcare.

Dr.V.SIVARAMAN

Dr.v.sivaraman. an aiumnus oi Depanmenr cr Produciion Engineering, ni ichy currency wo ung as Director ‹industry institute Relations) al EGSP Group 0f InstlMll one He is a Mechanical Engineer Graduated from BDU-Trichy and obta ined his doMorate from I IT Madras Currently he is working in Ihe ORB of Addillve ManufaMurin g and AI in ManufaMuring He Is inleresled in innovafion and commercialization of NEW prc<Iucts and also has a s#rtup to manufaMure Fibre Boals and Elewic Vehicles.

Plot No.15, 5th Cross, Srl Ram Nagar Kattur,

Page Links

Home
Lalest Events
Our Team
Gallery
Metal 3D Printing
Cases

Our Products

Vertical Car Parking
Sanitizer Robot
Smart Ventilator
Smart Virus Test Kit

Actin

LIST OF INTERNATIONAL WEBINAR COMPLETED


INTERNATIONAL WEBINAR
2020
E.G.S.PILLAY ENGINEERING COLLEGE, INDIA
MULTIMEDIA UNIVERSITY, MALAYSIA
SOUTH EASTERN UNIVERSITY OF SRILANKA
Jointly Organizing
Talk on
Metallic Glasses for Engineering & Bio Medical Applications
Our Presenter
é£lT
Dr.-Ing. Sree Harsha Nandam
B.Tech.(IITM) Ph.D (KIT)
Post Doctoral Researcher
Institute of Nano Technology
Karlsruhe Institute of Technology
GERMANY
31 JULY 2020 | 11AM (IST)
Register Now at
tinyurl.com/EGSPEC-MECH10
Coordinators
Dr. V. Sivaraman, Director (Ind. Inst. Relations), EGSPEC, India.
Dr. Ervina Efzan, Director (Research Prog. & Collab. Centre), MMU, Malaysia.
Dr. U. Farook, Head, Mechanical Engineering, SEUSL, Sri Lanka.
For Queries
MMU


INTERNATIONAL WEBINAR
2020
E.G.S.PILLAY ENGINEERING COLLEGE, INDIA
MULTIMEDIA UNIVERSITY, MALAYSIA
SOUTH EASTERN UNIVERSITY OF SRILANKA
Jointly Organizing
Talk on
3 Important Considerations for Next Generation Manufacturing Engineers
Our Presenter
Mr. M. Brij Bhushan
B.Tech.(IITM), MS (MIT- USA)
Ex-R&D Manager, MGTL, INDIA
Researcher
Massachusetts Institute of Technology
USA
26 August 2020 | 3.00pm (IST)
Register Now at
tinyurl.com/EGSPEC-XXX
Coordinators
Dr. V. Sivaraman, Director (Ind. Inst. Relations), EGSPEC, India.
Dr. Ervina Efzan, Director (Research Prog. & Collab. Centre), MMU, Malaysia.
Dr. U. Farook, Head, Mechanical Engineering, SEUSL, Sri Lanka.
For Queries
MMU


INTERNATIONAL WEBINAR
2020
E.G.S.PILLAY ENGINEERING COLLEGE, INDIA
MULTIMEDIA UNIVERSITY, MALAYSIA
SOUTH EASTERN UNIVERSITY OF SRILANKA
Jointly Organizing
Talk on
Metal Additive Manufacturing: Industry Trends and Outlook
Our Presenter
EATON
Mr. M. Boopalan
B.Tech. , MS (IITM)
Sr. Application Engineer
Centre for Additive Manufacturing
Eaton Research Labs, INDIA
24 September 2020 | 3.00pm (IST)
Register Now at
tinyurl.com/EGSPEC-MECH12
Coordinators
Dr. V. Sivaraman, Director (Ind. Inst. Relations), EGSPEC, India.
Dr. Ervina Efzan, Director (Research Prog. & Collab. Centre), MMU, Malaysia.
Dr. U. Farook, Head, Mechanical Engineering, SEUSL, Sri Lanka.
For Queries
MMU

LIST OF INVITED TALK GIVEN TO OTHER INSTITUTIONS

MMU
MULTIMEDIA UNIVERSITY

E.G.S.PILLAY ENGINEERING COLLEGE - INDIA
MULTIMEDIA UNIVERSITY - MALAYSIA
SOUTH EASTERN UNIVERSITY OF SRI LANKA - SRI LANKA

Jointly Presents this

Certificate of Participation

to

Mr. T.M.K.K. THENNAKOON
South Eastern University of Sri Lanka

for his / her active participation during the conduct of an International Webinar on "Eco-Friendly Magnesium Technology for Engineering and Bio Medical Applications" held on 30th June 2020 at 10 am (IST)

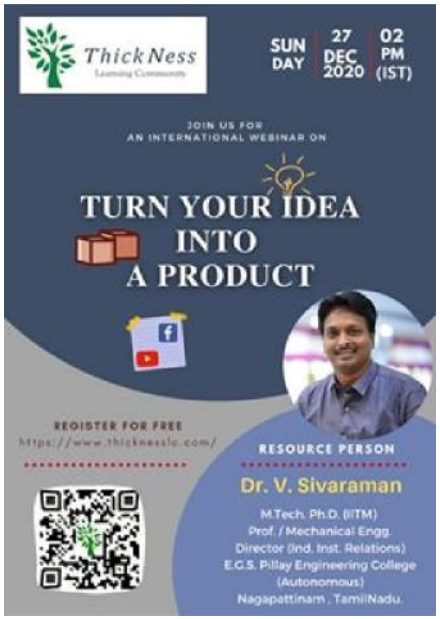
Distinguished Speaker : Dr. Manoj Gupta
Professor, Mechanical Engg., NUS - Singapore

Dr.V.Sivaraman
Director (Ind. Inst. Relations)
EGSPEC

Dr.Ervina Efzan
Director (Research Prog. & Collab. Centre)
MMU

Dr.U.Farook
HEAD, Mechanical Engg.
SEUSL

From Left to Right:
1.Dr.V.Sivaraman EGSPEC, India
2. Dr.U.Farook SEUSL, Sri Lanka,
3. Dr.Manoj Gupta NUS, Singapore 4.Dr.Ervina Efzan MMU, Malaysia



ERODE SENGUNTHAR
ENGINEERING COLLEGE
AUT0N0Id0US
PEfluN0MfLc.i. EftOOE - A38 @7

DEPARTHENT OF MECI-IANICAt. ENGINEERI NG
AICTE SPONSORED

one \veex Online shon Term Tralnlng Program on
"9D PBMTBOIZ TECHNDLOGY - A Means For Mooem Manufacturing"
in ‹ -‹9. 2ozoi

°Trends and Challenges in 30 Rastk Pñrrtlng“

Dr.V.Sivaraman M.Tech. Ph.D.(IITM)
Director (Industry Institute Relations)
Professor / Mechanical Engineering
E.G.S. Pillay Engineering College, Nagapattinam

NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND

Short Tetm Training Program

" Relevance of Technology Transfer and Knowledge Dissipation for higher Academic Institutions"

Tllsoftaik:

VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE
Approved by AICTE, New Delhi, Programmes Accredited by NBA & Affiliated to JNTUH, Hyderabad
Vignan Hills, Near Ramoji Film City, Deshmukhi (V), Pochampally (M), Yadadri Bhuvanagiri (D), Telangana - 508 284.
EAMCET Code : VGNT

A Webinar

ADDITIVE MANUFA€TURING• APPLICAYIO”Nr
.€HAL1ENGE5”AND FUTURE.:SCOPE.

Date : 22-05-2021
Time : 03:00 PM
zoom

Resource Person :
Dr. V. Sivaraman
Director (Industry Institute Relations)

Microstructure and Mechanical Properties of Thermoplastic Polyurethane/Jute Cellulose Nanofibers (CNFs) Nanocomposites

Authors: M Siti Syazwani, M N. Ervina Efzan, C K Kok, A K. Aeslina, V. Sivaraman

Publisher- Springer Singapore

Published in: Recent Trends in Manufacturing and Matenals Towards Industry 4.0

INVITATION FOR INTERNATIONAL CONFERENCES

GURU NANAK INSTITUTIONS
www.gniindia.org
Ibrahimpatnam, R.R District-501506

4th International conference on
Innovations in Mechanical Engineering
Hosted by Guru Nanak Institutions

Springer

Invitation Letter

To,
Dr. V. Sivaraman, M.Tech. Ph.D. (IITM)
Prof. / Mechanical Engg., Director (Ind. Inst. Relations),
E.G.S. Pillay Engineering College (Autonomous)
Nagapattinam, Tamil Nadu-611002.
Ph No: 9843473434
Email Id: iitmvs@gmail.com

Dear Sir,

Greetings for the day!!!.

Guru Nanak Institutions (GNI) is one of the premier Educational Institutions in India, situated in the state of Telangana's capital Hyderabad popularly known as "City of Pearls". GNI is accredited with NAAC A+ and NBA. GNI Decode IT Park (Digital Engineering Center for offshore and Domestic Enterprises) is India's First IT Park with in our Technical campus providing Part Time Employment to Current Students and Full time Employment to Passed-out Engineers. The Institution has been awarded "Best Place to Innovate" in UXINDIA-13 International Conference, at IIM Bangalore, "Excellent Innovative Institute in AP" award by Consortium of Communication Media and Infrastructure CCMAI and "Award of Excellence" and GNIT Team Super Ignite are the National champions of GKDC held at Coimbatore.

Guru Nanak Institutions take this privilege to organize the **4thInternational Conference on "Innovations in Mechanical Engineering" (ICIME-2021)** on 26th and 27thFebruary 2021. Selected Technical Papers of high standard will be published in Springers Proceeding and JIME Journal.

International Conference on **"Innovations in Mechanical Engineering" (ICIME-2021)** the conference will provide interactive platform for the personnel, participants and other delegates from the academic and industry segments across India and the globe to share their research experiences, experiment break through or vision-trends in the following broad areas and beyond.

It will be our privilege to invite you to be part of our **InternationalConference (ICIME-2021)**as a distinguished **Session Chair and Keynote**. Please consider our invitation and let us know of your willingness. We look forward to hear from you and appreciate your consideration.

Visit our webpage: http://www.icime-gniindia.org/ and http://www.gnithyd.ac.in/

Thank you,

Convener,

Dr.B.Vijaya Kumar

ICMIMT 2021
www.mimt.us

2021 IEEE 12th International Conference on
Mechanical and Intelligent Manufacturing Technologies
May 13-15, 2021 / Cape Town, South Africa

Home | ICMIMT Speakers | Committees | Call for Papers | Program | Venue | Registration | Travel Information | Contact Us

ICMIMT 2021 Committee Member

Advisory Committees
- Robert Gao(IEEE/ASME Fellow, Case Western Reserve University, USA)
- Henry Hu (University of Windsor, Canada)
- Chris Yuan (Case Western Reserve University, USA)

Conference Chairs
- Khaled Abou-El-Hossein (Nelson Mandela Metropolitan University, South Africa)
- Ramesh Kuppuswamy (University of Cape Town, South Africa)

Program Chairs
- Mardé Helbig (University of Pretoria, South Africa)
- Tien-Chien Jen (University of Johannesburg, South Africa)
- Francesco Zirilli (Sapienza Università di Roma, Italy)

Publicity Chair
- Simon Winberg (University of Cape Town, South Africa)

Technical Committees
- Jianrun Zhang (Southeast University, China)
- Daniel Madyira (University of Johannesburg, South Africa)
- Bernard Xavier Tchomeni Kouejou (Vaal University of Technology, South Africa)
- Shouzhen Rui (Beijing Jingyi Automation Equipment Co., Ltd., China)
- Madindwa Mashinini (University of Johannesburg, South Africa)
- Ravi Sekhar (Symbiosis Institute of Technology, India)
- Lars Tingelstad (Norwegian University of Science and Technology, Norway)
- Qing Zhang (Tongji University, China)
- Modify AE Kaunda (Cape Peninsula University of Technology, South Africa)
- Daramy Vandi Von Kallon (University of Johannesburg, South Africa)
- Mothibeli Pita (University of South Africa, South Africa)
- Rosli Bin Ahmad (Universiti Tun Hussein Onn Malaysia, Malaysia)
- Siamak Hosseinzadeh (University of Pretoria, Pretoria, South Africa)
- Sisa Pityana (The Council for Scientific and Industrial Research, South Africa)
- Alos Simo Lirios (Miguel Hernández University of Elche, Spain)
- Paul Refalo (University of Malta, Malta)
- Patrick Mubiayi (University of South Africa, South Africa)
- [illegible]
- V. Sivaraman (EGS Pillay Engineering College, India)
- [illegible] (University of Johannesburg, South Africa)
- Ferry Jie (Edith Cowan University, Australia)
- Desireé Cranfield (Swansea University, UK)
- Mpofu Khumbulani (Tshwane University of Technology, South Africa)
- Kumar Pallav (Cape Peninsula University of Technology, South Africa)
- Lagouge Tartibu (University of Johannesburg, South Africa)

Quick Menu
- Technical Paper Template
- Call for Papers-Brochure
- Paper submission (Easychair)
- Online Registration (Listener)

Past ICTCs
- 2020, Cape Town, South Africa
- 2019, Cape Town, South Africa
- 2018, Cape Town, South Africa
- 2017, Cape Town, South Africa
- 2016, Cape Town, South Africa
- 2015, Melaka, Malaysia
- 2014, Penang, Malaysia
- 2013, Bali, Indonesia

MEETING WITH KYUNGDONG UNIVERSITY PRESIDENT Dr.JOHN.K.LEE, SOUTH KOREA

Prof.J.C.WANG NTUT-TAIWAN

Professor M.M.M.NAJIM VICE CHANCELLOR SOUTH EASTERN UNIVERSITY OF SRILANKA

INTERACTION WITH MULTIMEDIA UNIVERSITY

MALAYSIA

Prof.J.C.WANG
NTUT
TAIWAN

COLLABORATION WITH ADITYA BIRLA AND DRDO

Springer Link

Investigations on Pb-Free 6000 Series Aluminum Alloy for Machining Applications

TMS Annual Meeting & Exhibition

TMS 2018: Light Metals 2018 pp 285-292 | Cite as

- Saikat Adhikari (1) Email author (saikat.adhikari@adityabirla.com)
- Anirban Giri (1)
- V. Siva Raman (3)
- Pramod Koparde (2)
- Sachin Gupta (2)
- L. Vijayaraghavan (4)
- S. Sankaran (4)

1. Aditya Birla Science and Technology Company Private Limited, , Navi Mumbai, India
2. Hindalco Industries Limited, , Mumbai, India
3. E.G.S.P. Engineering College, , Nagapattinam, India
4. Indian Institute of Technology Madras, , Chennai, India

Conference paper
First Online: 02 February 2018

Part of the The Minerals, Metals & Materials Series book series (MMMS)

Abstract

Pb-based alloys such as AA6262, AA2011 and more recently AA6026 are used as free-machining aluminum alloys for automotive and electronic applications. However, in order to comply with Automotive End of Life Vehicles (ELV) and Restriction of Hazardous Substances (RoHS) directives, Pb-based alloys slowly need to be phased out. A Pb-free machining grade 6xxx aluminum alloy based on Sn was developed and its machinability evaluated. Microstructure analysis of the Al–Mg–Si–Sn–Cu alloy revealed the presence of (98 wt%) Sn–Mg_2Sn eutectic phases, which have a low melting point of ~203 °C, and are responsible for providing good machinability. Homogenized billets of the alloy were extruded and heat treated to T6 temper. Yield strength and ultimate tensile strength of the Pb-free alloy were comparable to those of the conventionally used Pb-based AA6262-T6 alloy. Machinability studies of the alloy were conducted by evaluating the effect of cutting speed, feed rate and depth of cut on surface roughness, chip size and form of chip produced during the turning operation. The machinability of the Sn containing alloy was found to be superior to that of non-machining grade 6xxx alloys AA6061-T6 and AA6082-T6 and comparable to that of Pb-based free-machining alloy AA6262-T6.

Study on Drilling of Additively Manufactured Inconel 718

V.Sivaraman[1*], B.K. Nagesha[2], Wang, JC[3]

[1]*Professor, E.G.S.Pillay Engineering College (affiliated to Anna University Chennai), India 611001*

[2]*Scientist, Gas Turbine and Research Establishment, DRDO, Govt. of India 560093*

[3]*Professor, National Taipei University of Technology, Taiwan 10608*

** Email: iitmvs@gmail.com*

Abstract: Inconel 718 Ni-based super alloy was fabricated through selective laser melting (SLM) technique. Drilling operation was performed on the cylindrical component produced through SLM technique. During drilling process the thrust force was measured by varying the process parameters like drilling speed and feed rate. Near net shape component can be produced through SLM process and in case a need for additional machining operation like drilling is required for assembly purpose, this report will help to understand the behavior of the material and selection of optimum cutting parameters.

A case study is presented, with a view to understand the drilling operation on a Metal Additive Manufactured part analyzing the thrust force with respect to varying two

Indian Society for Technical Education (ISTE)

Sponsored Online One Week STTP on

“Advanced Manufacturing Technology Processes & Applications”

13-of-2o21 t 17-of-2o21

Coordinators

Dr.V.SIVARAMAN

(Associate Prafessor)

Dr.N.RAMANUJAM

(Professor)

CourseContent:

Additive Manufacturing,Smart Manufacturing,Laser Machining & Welding, RoboticsB Automation, DDE & Optimization, Compasite Materials & its applications

Resource Persons:

Faculty membersfrom IIT, NIT, otherreputed institutes/industriesfrom India and Abraad

Who ran attenrl•

Faculties, Scientists, Engineers, Research Scholars, ps a us students

Registration Link:

https://tinyurl.com/EGSPEOSTE

Organized by

Department of Mechanical Engineering

E.G.S.PILLAYENGINEERING COLLEGE(Autonomous)

(Accredited by NBA , NAAC with "A" Grade)

NAGAPATTINAM - INDIA 611002

For queries: remenujem@egspec.org vs@egspec.org

Hand Phone:+91S865B62541

INTERNATIONAL WORKSHOP ON ADDITIVE MANUFACTURING AT EGSPEC

Dr.Wessel W Wits
University of Twente

Dr.T.S.Srivatsan
University of Akron

^smposit• /dat=rial« fnr Extromo Loading pp 213-220 | Cit• as

Study on Drilling of Additively Manufactured Inconel 7*8

authors Authors and affiliations

U. Sivaraman, B. K. Hagesha, d. C. ¥Vang

Conference paper

First Online: OT ilovember 2021

Part of the L•rture Nntes !n kl•chan!°al Eng!n••rrng book series (LHidE)

Abstract

Inconel 7 Ni-based euper allny was fabricated through selective laser melting (SLhI) technique. Drilling opemtion was performed on the cylindrical component produced through SLbI technique. During drilling process the thruet force was measured by varying the procms parameters like drilling spead and feed rate. Near net ehape component can be produced through SLM process and in case a need for additional machining operation like drilling is required for assembly purpose, this repnrt will help to understand the behavior nf the material and selection of optimum cutting parameters.

A casa study is presented, with a view to imderstand the drilling operation on a Metal Additive JYlanufactured part analyzing the **thruet** force with respect to varying two process parameters, i.e. feed rate and revolubon nf drilling bit, is studied and preeanted with the experimental results.