Welcome to

IPPE

Indian Power Press Engineers

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Accounts : +91 96263 56420 accounts@ippengineers.in

Manager : +91 98849 22597 electrical@ippengineers.in

mechanical@ippengineers.in

engineering@ippengineers.in

sales@ippengineers.in

Official websites: www.ippengineers.in /.com

Company Overview

Established: Since 2008

we provide best techno - commercial solutions to all power presses and Forging, Stamping, Blanking, sheering industries and we will work with any type of presses and can support for any spares and service. we are also exports in Making new Electrical Panels and reconditioning of press and panels, we provide all technical supports at low costs of charges and using rich experience of our experts.

From 2010 we started sales, erection and service commissioning of any kind of tool room machines like presses, lathes, CNC, VMC, Universal drilling, surface grinding, pipe bending, industrial AGV, industrial Robots, and Etc,.

We are also doing Reverse engineering of break down components, Research And Development Projects like Quick Die change, Gantry Crane Projects and Etc.,

Our Expertise

Power Press Maintenance, Mechanical Power Press Maintenance, Hydraulic Power Press Maintenance, Hot Forging Press Maintenance, Cold Forging Press Maintenance, Sheet Metal Press Maintenance, Coining Press Maintenance, Heavy Forging Press Maintenance, Stamping Press Maintenance, Electrical panel for all above press and reverse engineering any parts, Spares support and design solution and all spare parts in above machines and etc.....,

Our Services

- Modernization and Renovation Erection and commissioning
- Automation of Technological Processes on Presses
- Special Purpose of Machines
- Used machines Trading

The Presses We Undertook Are

The Presses We Undertook Are

- Hot forging presses
- Servo Presses & Feeders
- Trimming presses
- Coining presses
- Horizontal up setters
- Screw presses
- Billet Shearing
- Warm Forging Press
- Sheet Metal Stamping Press
- Billet reducer
- Knuckle joint coining presses
- High speed presses
- Hydraulic presses
- Die spotting presses
- Press brakes
- Shearing machines
- Turret punch presses (CNC)
- Tire curing presses
- Ring rolling machines
- Fine blanking

Advantages of IPPE

- Advance design ideas
- Commitments in Time
- Assistance in development of specifications
- Feasibility studies and prototype assistance
- Computer aided design and drafting services
- Equipment specifications and procurement
- Research and development Assembly, testing, & installation
- Accept most CAD formats

Our Professionalism

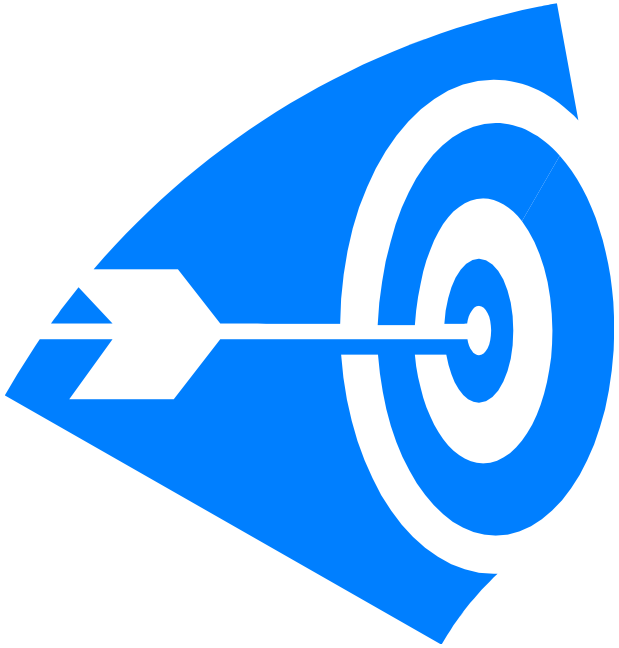
- Pneumatics and Hydraulics
- System integration
- Electrical, Electronics and controls
- Automation and Robotic design
- Under-the-hook lift devices
- Reverse engineering and improvements
- R&D Projects

Quality Commitment

Our custom designed manufacturing systems are proven to maximize production, lower reject and rework rates, and improve the overall quality of the product. Whether single cell manual machines or multi-line turnkey automated systems, our engineering team works with customers to ensure a full understanding of system parameters and requirements. From development through production, our commitment to quality comes through for you.

Quality Assurance

- Defining Quality Check team
- Defining Quality Check list
- Developing Quality check tools
- Manual Quality Check



Our Focus

- Enable Customer's Business
- Help Customers growth
- Completion in commitments
- Zero defects
- Safety is more important at any point

Some of our Customers

- Siempelkamp Germany. 5000T hydraulic press
- National Engineering USA. 2500T horizontal Up setter.
- Simpac Korea. Die spotting press.
- JIER China. Blanking line.
- Thansu Australia.
- Daimler India commercial vehicles Chennai
- Renault Nissan Automotive india pvt ltd. Chennai
- Caparo Groups Engineering Pvt Ltd.
- JBM Groups, Chennai, Sanand Gujarat (6000 Ton hot forging)
- Bimetal bearing Ltd, Hosur
- TI Metal Groups of Forming Ltd
- Brakes India Ltd, Wheels India Ltd, Clastek, Chennai
- Nippon Thermostat India Pvt. Ltd.
- IHI Corporation Japan
- Konoike Asia India Pvt. Ltd
- TTK Prestige Ltd.
- Reliable Autotech Pvt. Ltd

INDIA

TI METAL FORMING

(A Unit of Tube Investments of India Limited)

murugappa

Certificate of Appreciation

Presented to

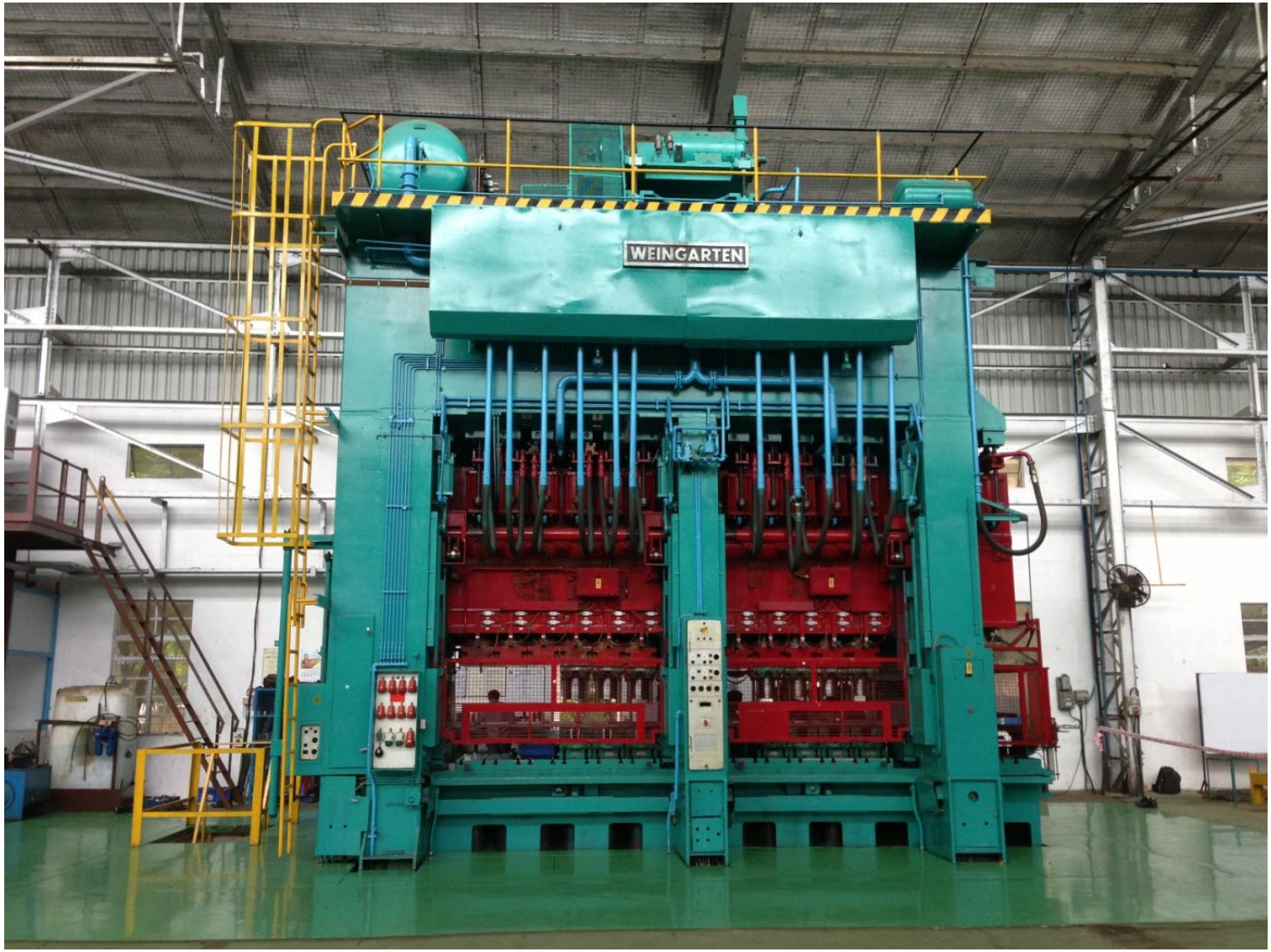
M/s. INDIAN POWER PRESS ENGINEER

In acknowledgment of their dedicated
support to 1050 Ton Weingarten (Germany)
Press - Refurbishment & Installation / Commissioning.

We look forward to many more years of
mutual success

K R SRINIVASAN
Sr. Vice President

Erection & Commissioning of some of presses



Successful Projects

Bi metal Bearings Pvt Ltd

Successful projects


MINSTER
MINSTER

Successful projects


hmt


hmt

Successful projects

Jyoti toolings Pvt ltd


VOLTAS


25/11/2009

Caparo group


25/11/2009

Successful projects


IPPE


IPPE


IPPE


Siempelkamp

Supply/ Installation and Maintenance of Hydraulic and Pneumatic Presses:

Prabha Auto Ltd Chennai


JOHN HEINE
SYDNEY
620A
SERIES 1


KONECRANES
ARANCON


SCHULER


Siempelkamp


ACE

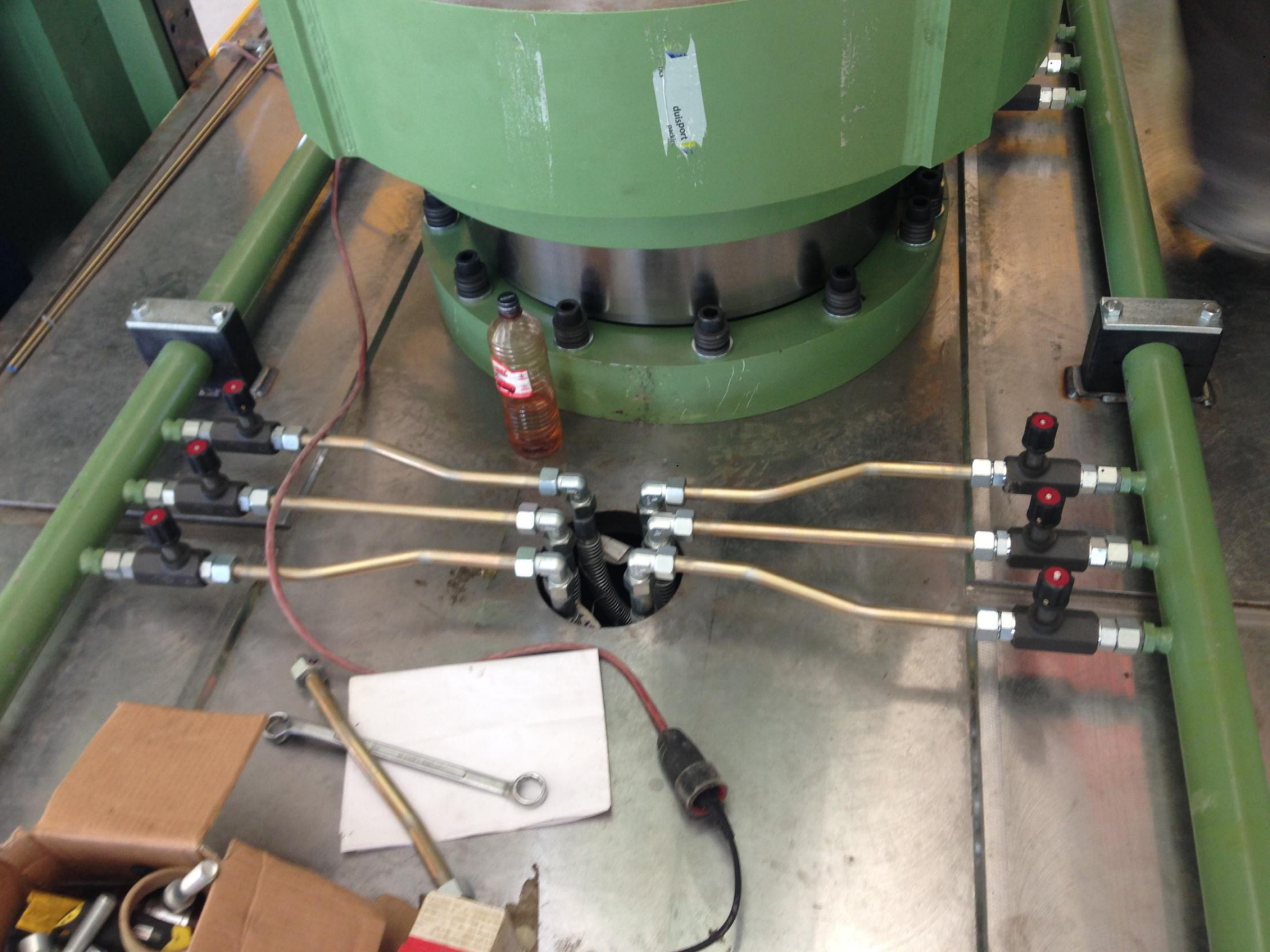

24 VOLT DC RECTIFIER


CO2
SAFEX

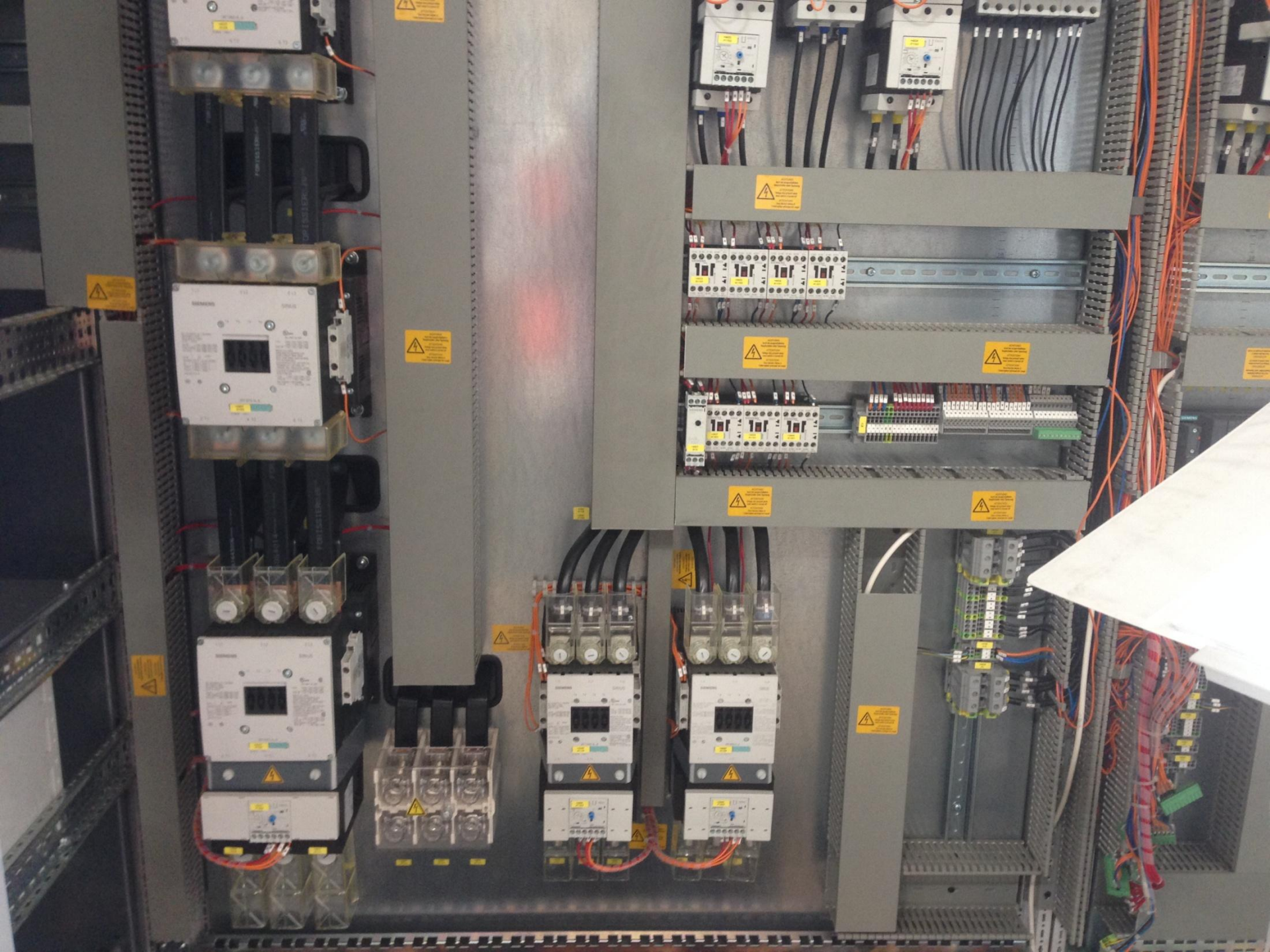

SAFETY
MSG

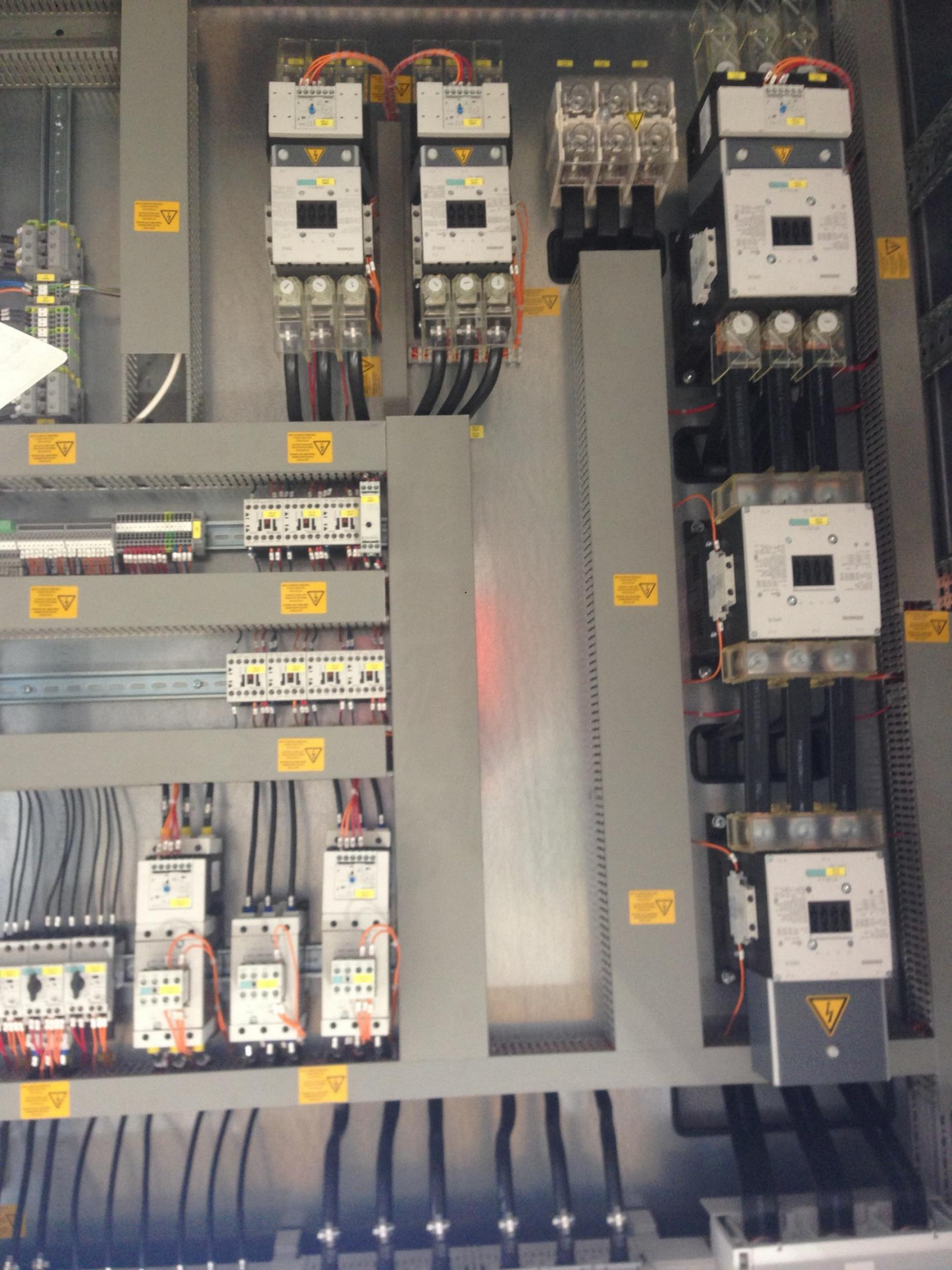

SUDHARSANAMTRANS
CELL:9840090777, 9840496666,9840905552, CHENNAI-1.


SAFETY
FIRST




HANSHIN






wöhner
QCB
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QCB
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QCB
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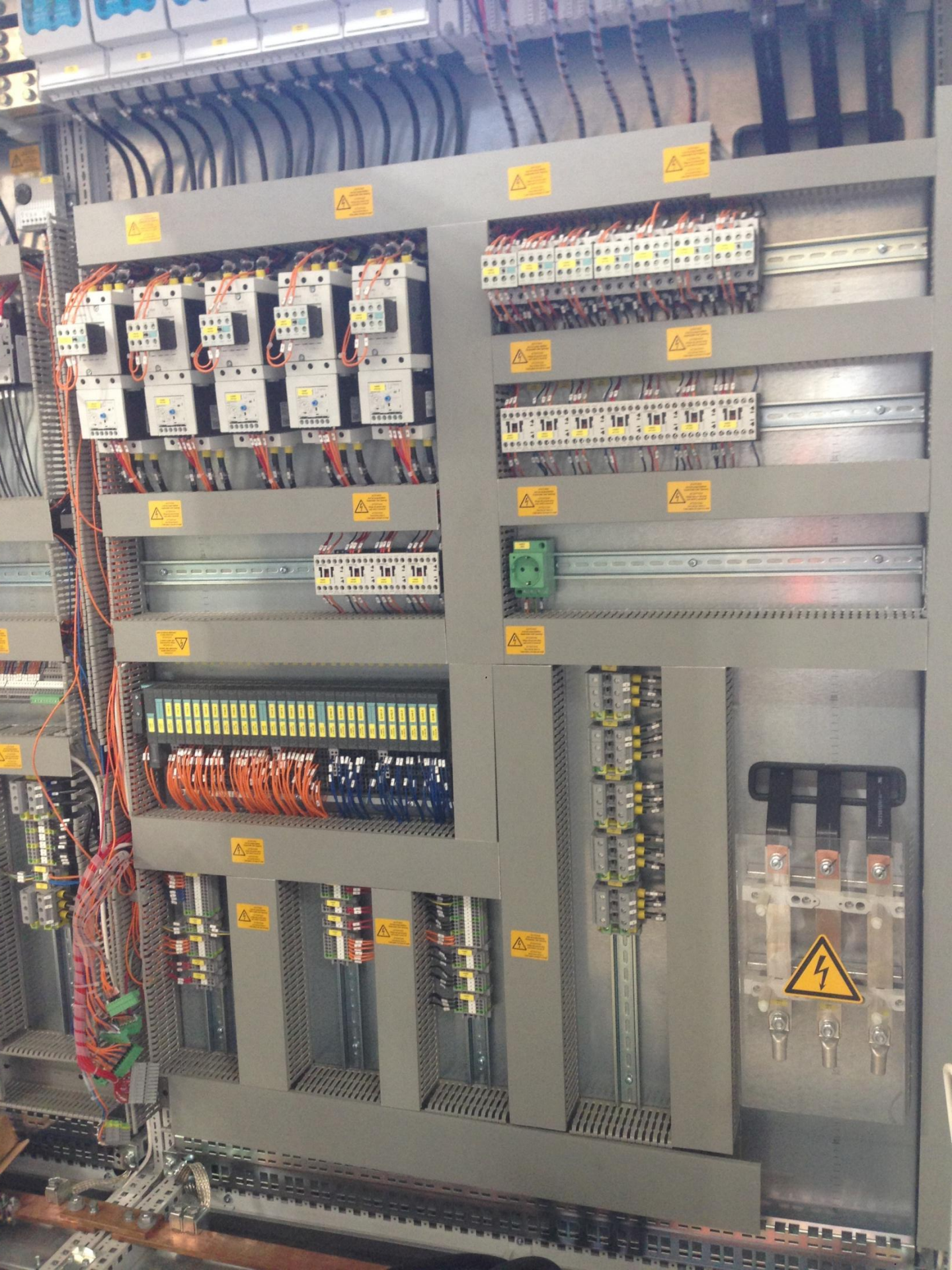
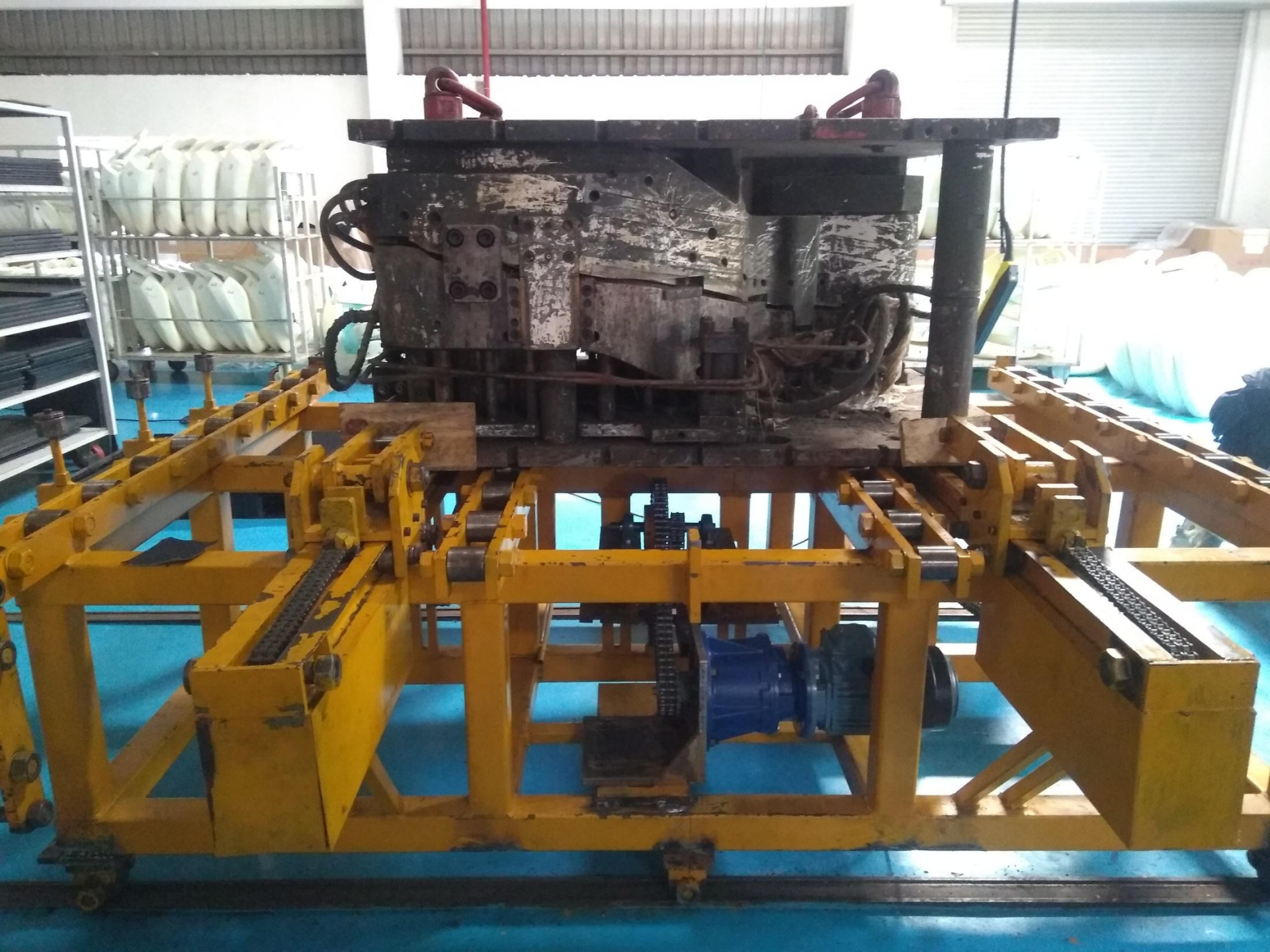
SIEMENS



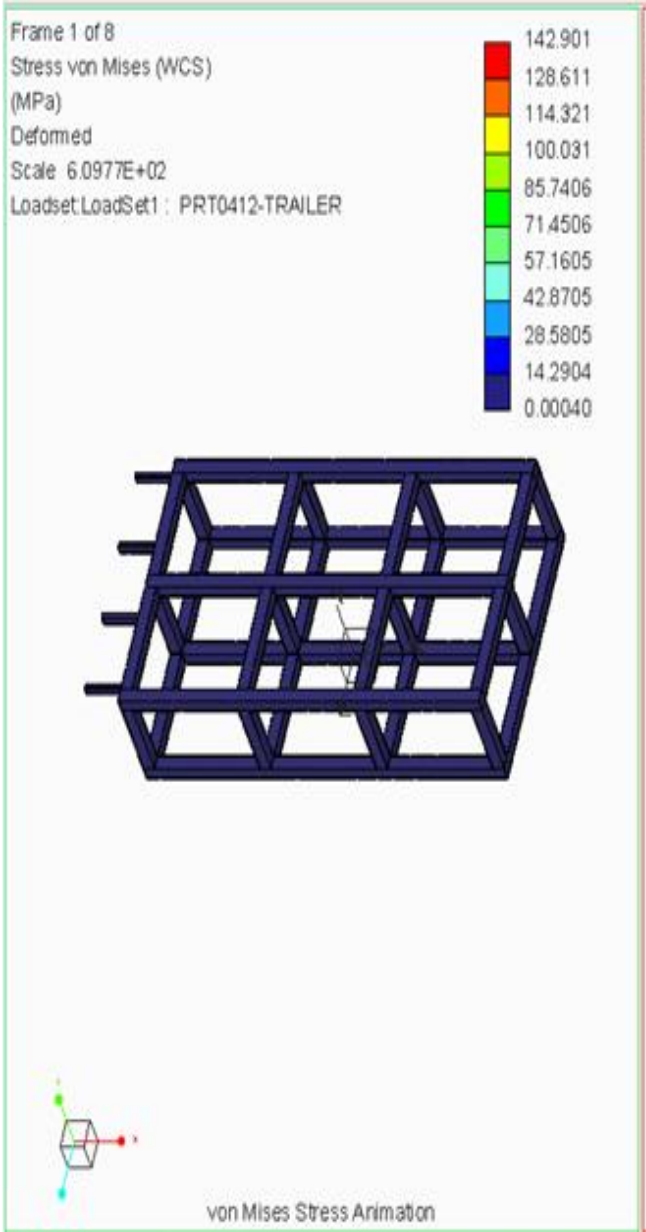
Design Projects

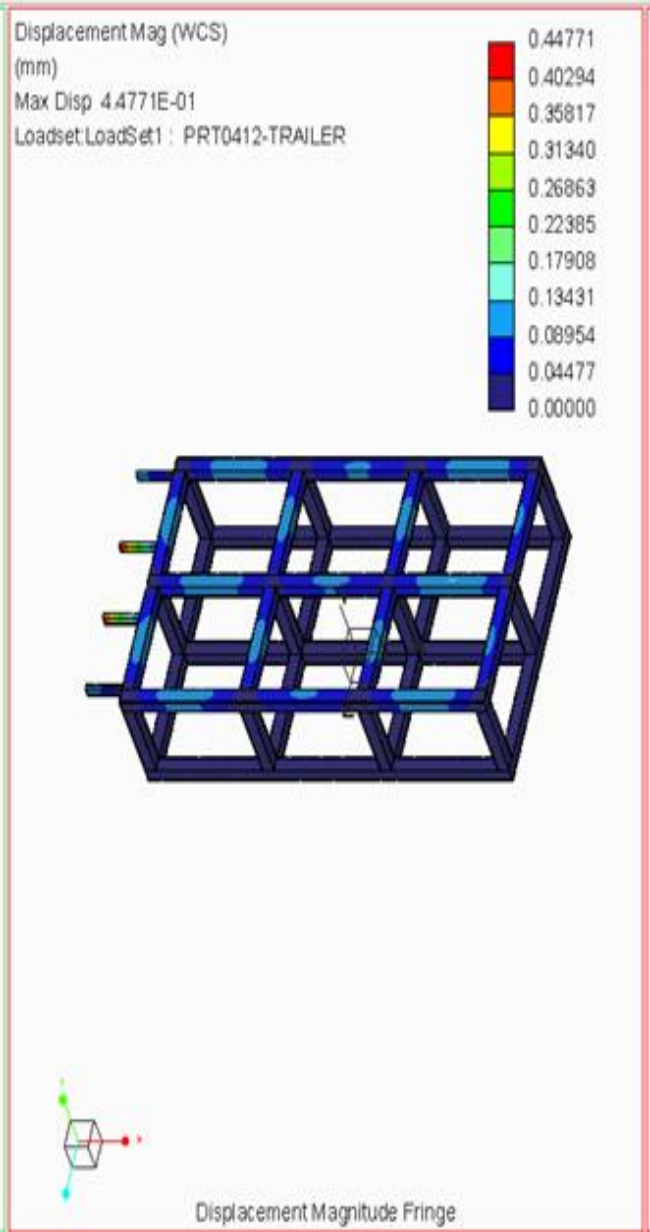
Harita Fherare Pvt Ltd
Chennai

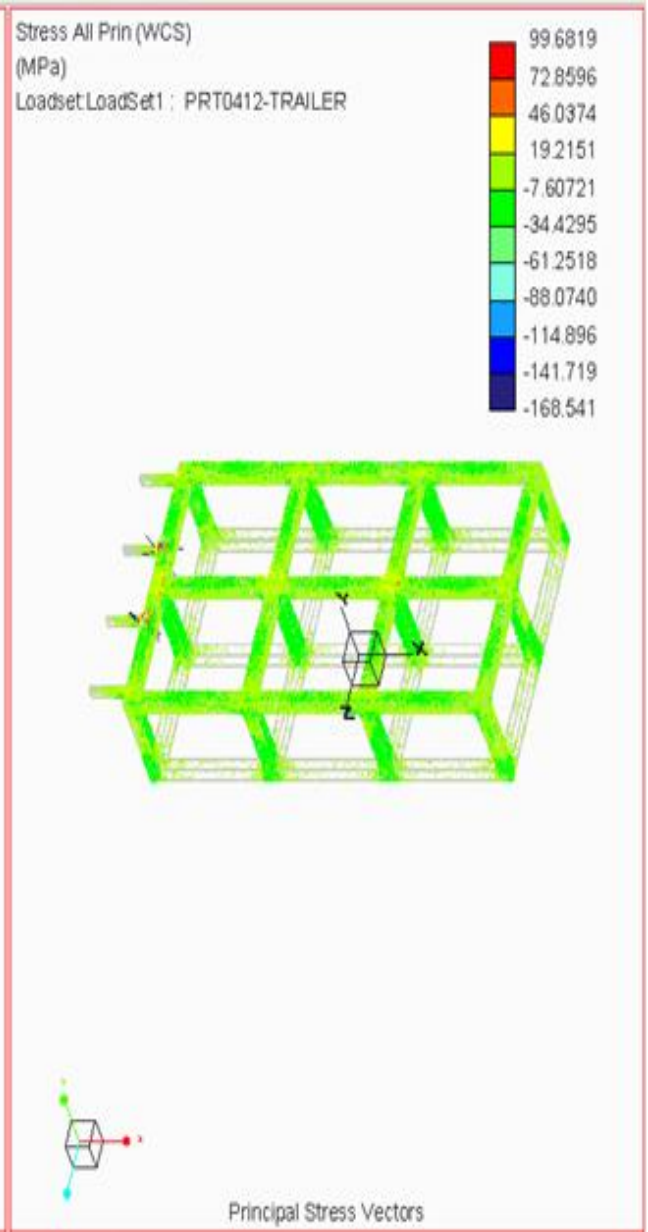
Quick Die Changer
Capacity: 20Ton
Conducted on 30/11/2017



Static Analysis Die Cart structure



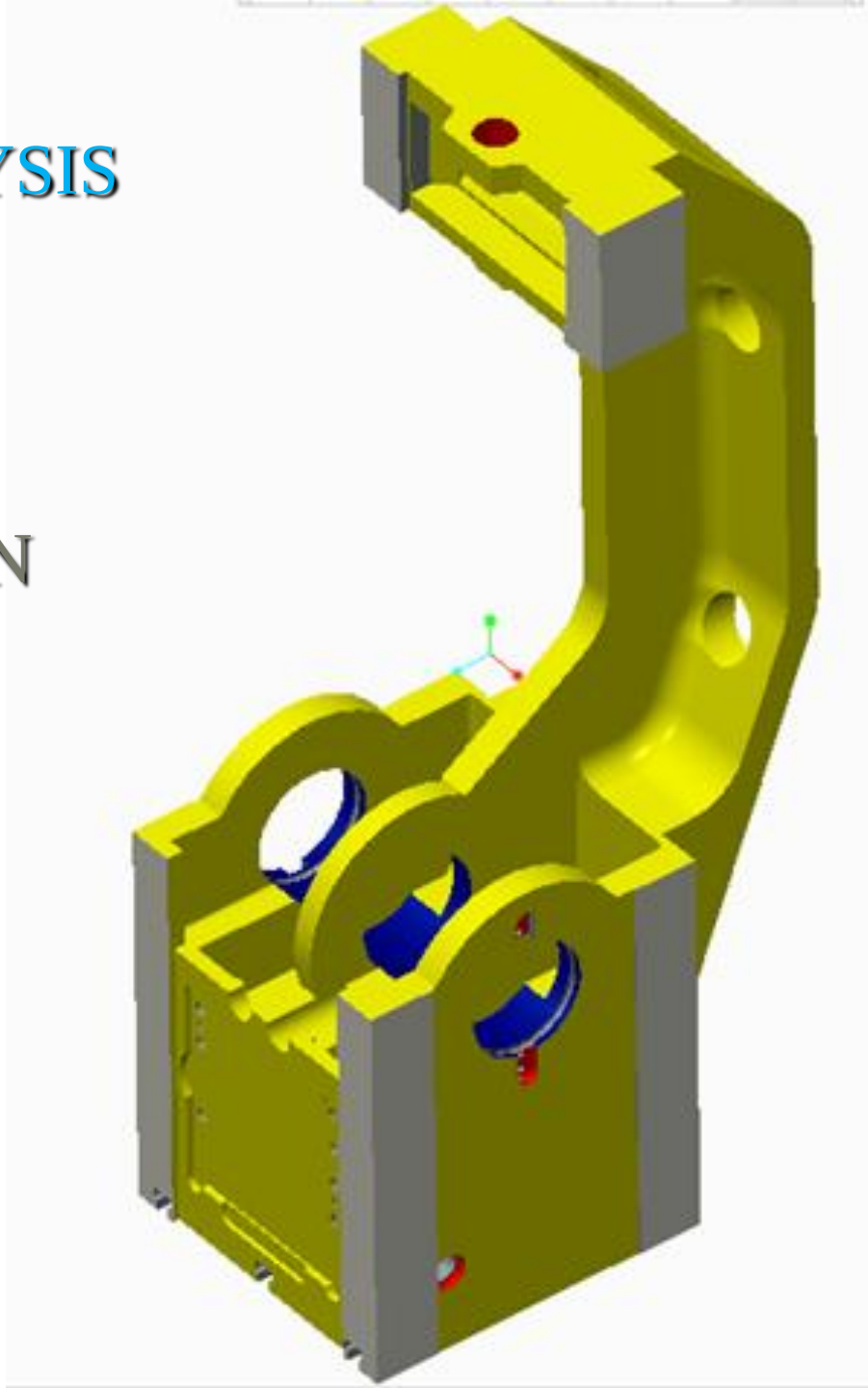




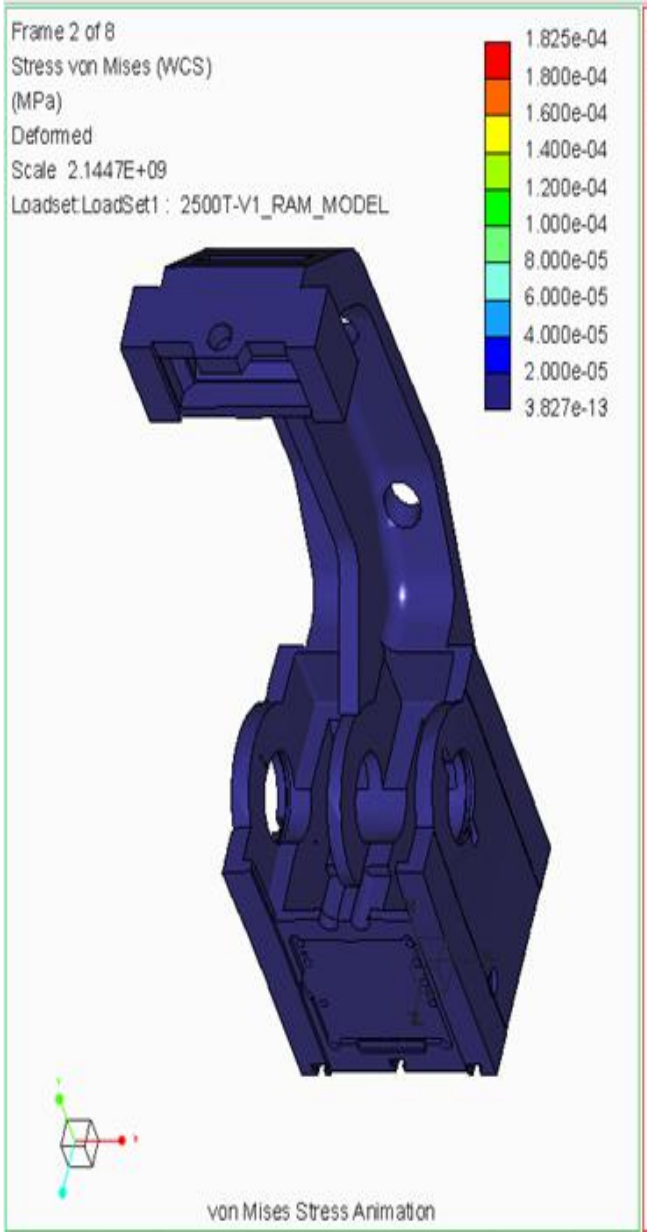
DESIGN AND ANALYSIS

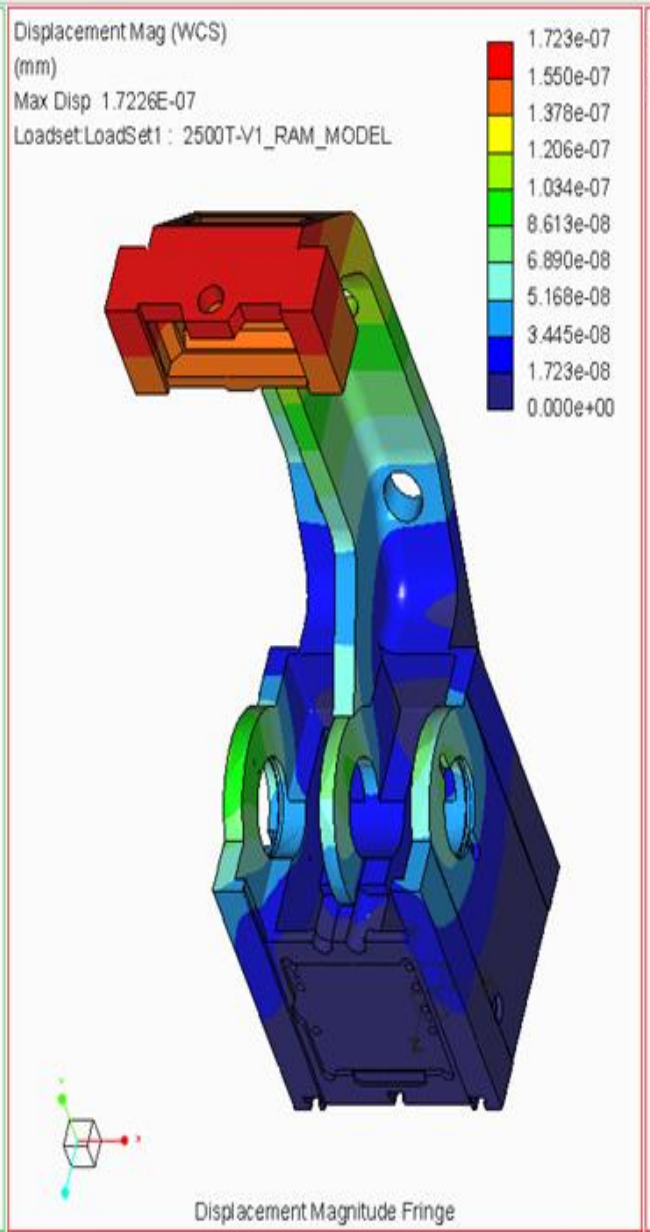
Bill forge Pvt Ltd
Bangalore

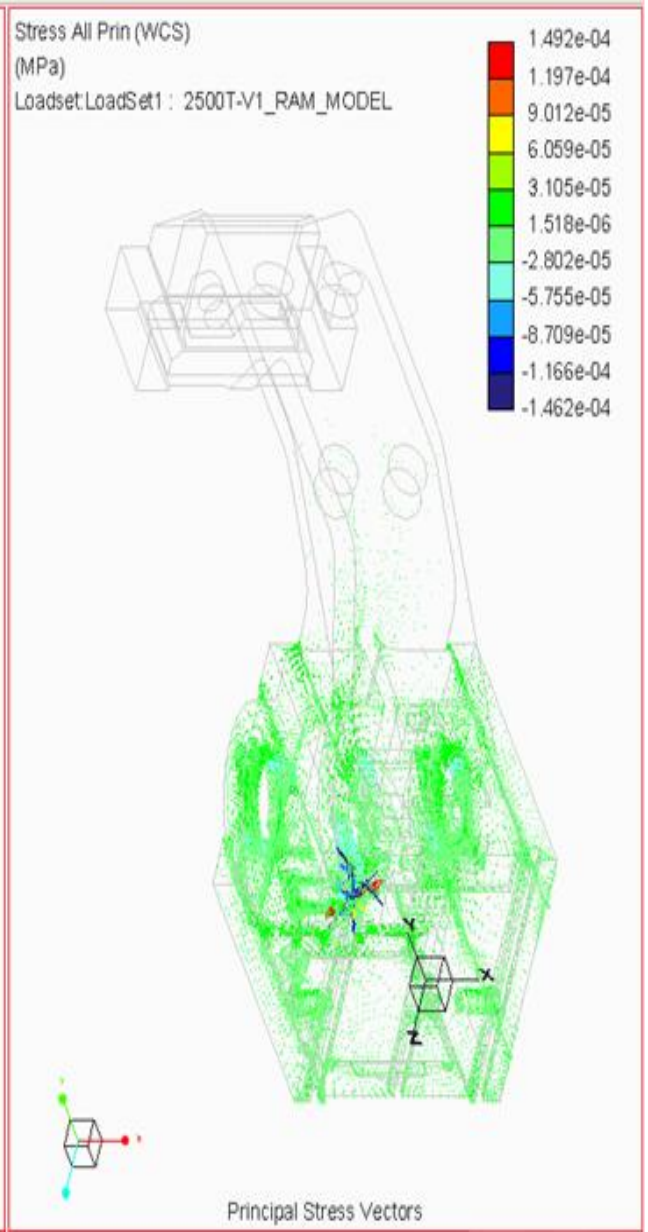
V1 RAM - 1000 TON PRESS



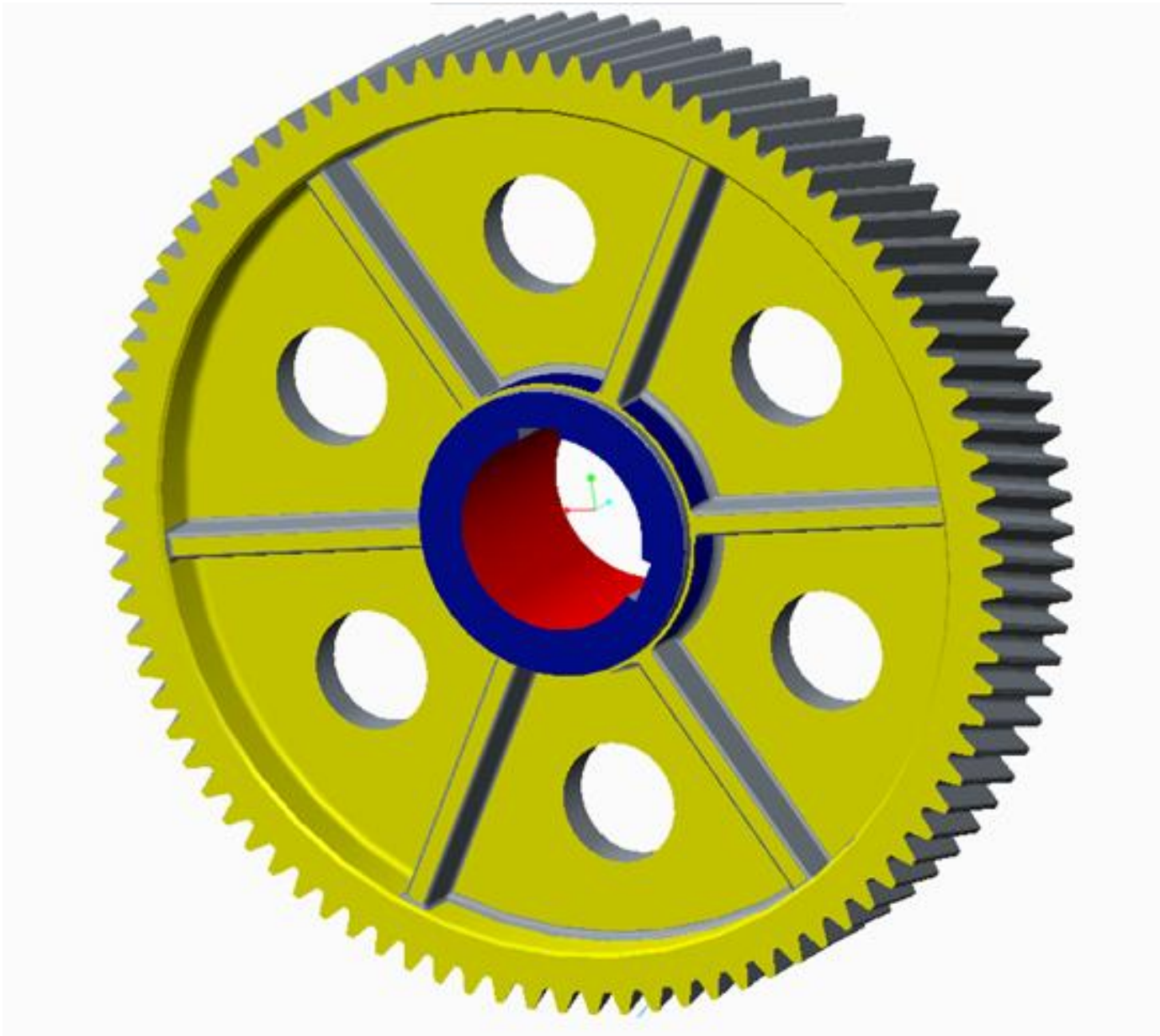
ANALYSIS in Creo parametric 2.0







Ti Metal forming
BULL GEAR 1500 TON PRESS



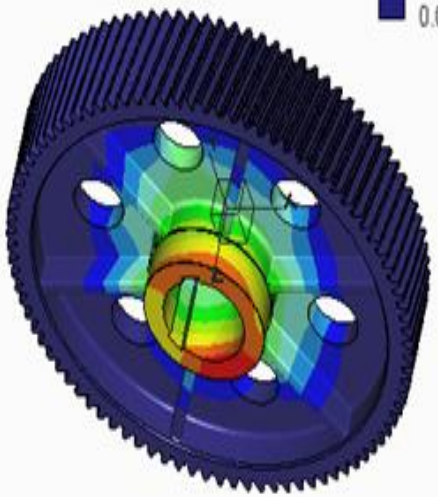
Frame 1 of 8
Stress von Mises (WCS)
(MPa)
Deformed
Scale 3.0464E+05
Loadset:LoadSet1 : PRTHELICALGEAR01

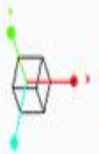
7.463e-01
6.717e-01
5.971e-01
5.224e-01
4.478e-01
3.732e-01
2.985e-01
2.239e-01
1.493e-01
7.466e-02
2.813e-05

von Mises Stress Animation

Displacement Mag (WCS)
(mm)
Max Disp 3.7585E-04
Loadset:LoadSet1 : PRTHELICALGEAR01

3.759e-04
3.383e-04
3.007e-04
2.631e-04
2.255e-04
1.879e-04
1.503e-04
1.128e-04
7.517e-05
3.759e-05
0.000e+00

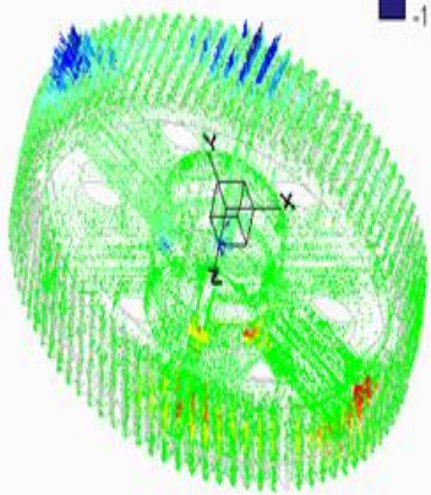




Displacement Magnitude Fringe

Stress All Prin (WCS)
(MPa)
Loadset:LoadSet1 : PRTHELICALGEAR01

1.11365
0.88690
0.66016
0.43341
0.20666
-0.02009
-0.24684
-0.47359
-0.70033
-0.92708
-1.15383



Principal Stress Vectors

LOAD ANALYSIS FOR HERRINGBONE GEAR

Organization Name: Indian Power Press Engineers,

Place: Chennai

Description:

Analyzing the load capacity of welding which is acting on the herringbone gear. So, According to the welding dimension we take, Thickness of the weld, t= 15 mm, Maximum Shear Stress = 115 N/mm^2, Inner diameter of the Shaft d = 150mm, Outer Dia D=285.11mm, let we find the load capacity of the welding area =?

Welding Thickness t = S * Sin 45 (considering the area of weld as Triangular Shape)

Then, 15 = 0.707 * S Where "S" is side width of the welding.

S=15 / 0.707 = 21mm

Maximum Shear stress for welding area = 2.83*T / 3.14*S* (D^2 – d^2)

Where, T = Torque in N.M

115= 2.83*T / 3.14*21*(285^2 – 150^2)

115= 2.83*T / 65.94 * (81225 – 22500)

115= 2.83*T / 3872326.5

T= 115*3872326.5 / 2.83

T = 157356023.851 N.mm

T = 157.36 K.N.M

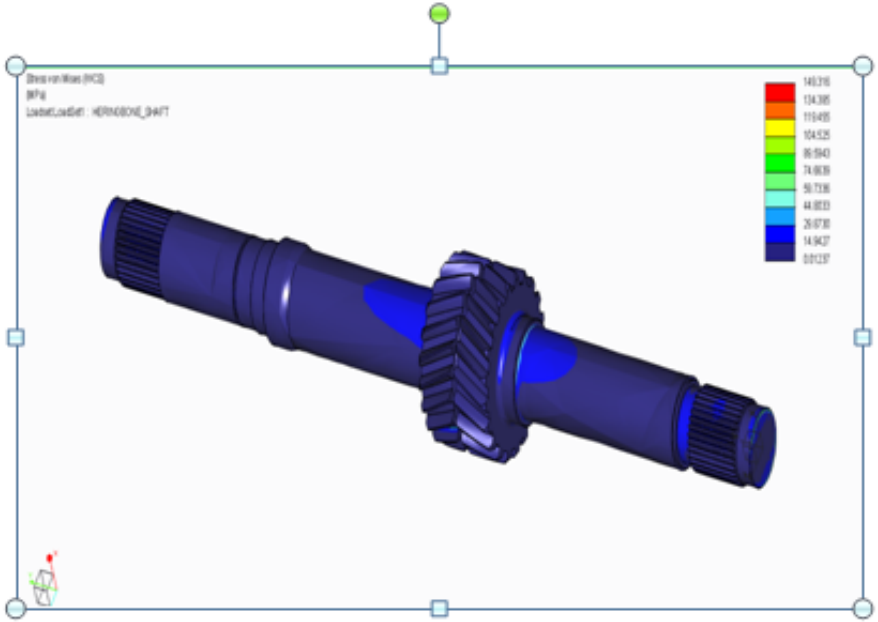
From the theoretical Method the design is safe for 260T load acting on the Herring bone Gear as well as Welding area during static load condition.

Note : The keyway load carrying capacity is 10 T.

Date: 22/08/2015

GRAPHICAL METHOD ANALYSIS

The following simulation result gives the clear idea about the LOAD



This simulation describe there is no failure due to load acting on the herringbone gear.

The maximum Fatigue or Failure occurs at 300 Tonne or impact Load.

Conclusion : -

According to the theoretical calculation method and Graphical method the design is safe. And the Maximum load capacity of the welding area is 157.36 K.N.M at rotation and 260 T at static.

APPROVAL:

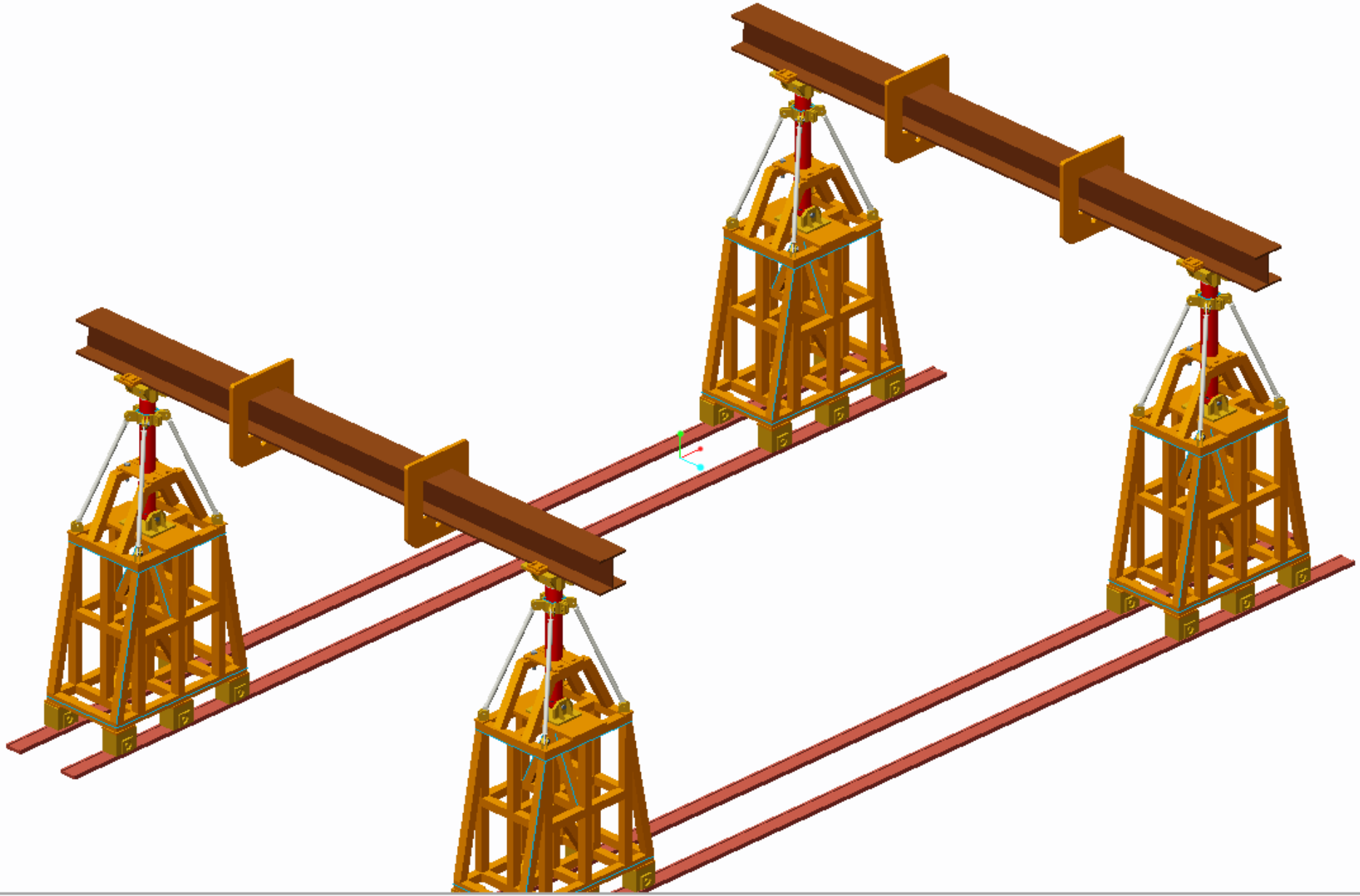
Name :	Designation :	Signature :	Date :

STTI Bangalore

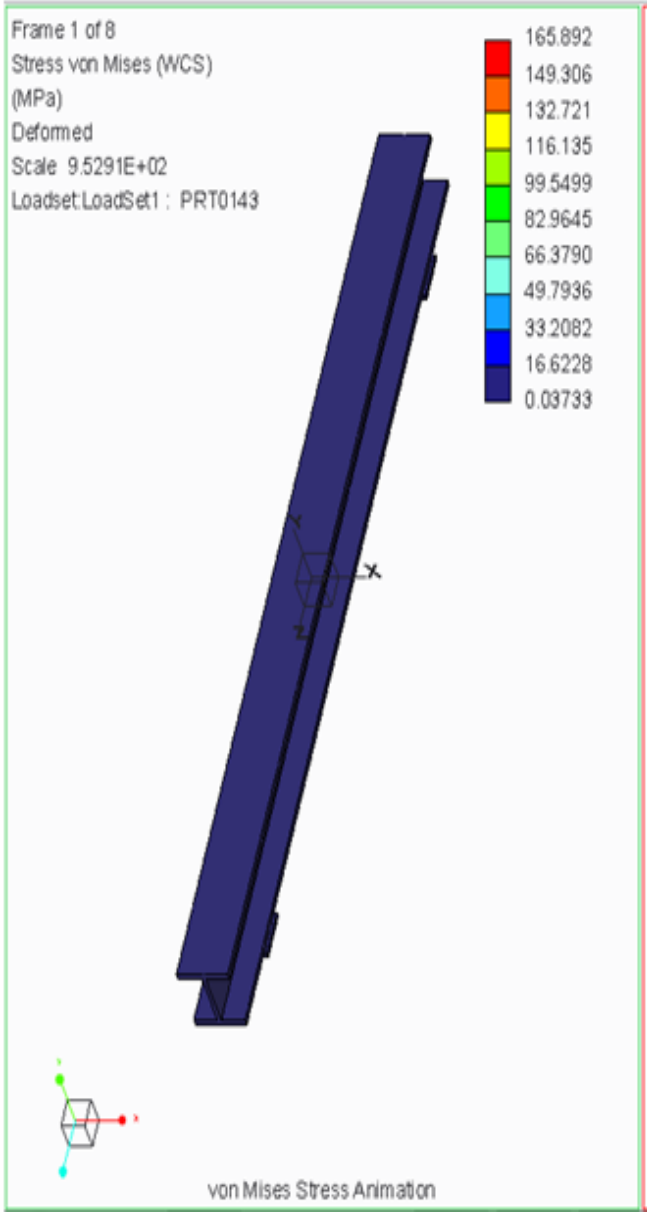
Hydraulic Gantry capacity: 150ton

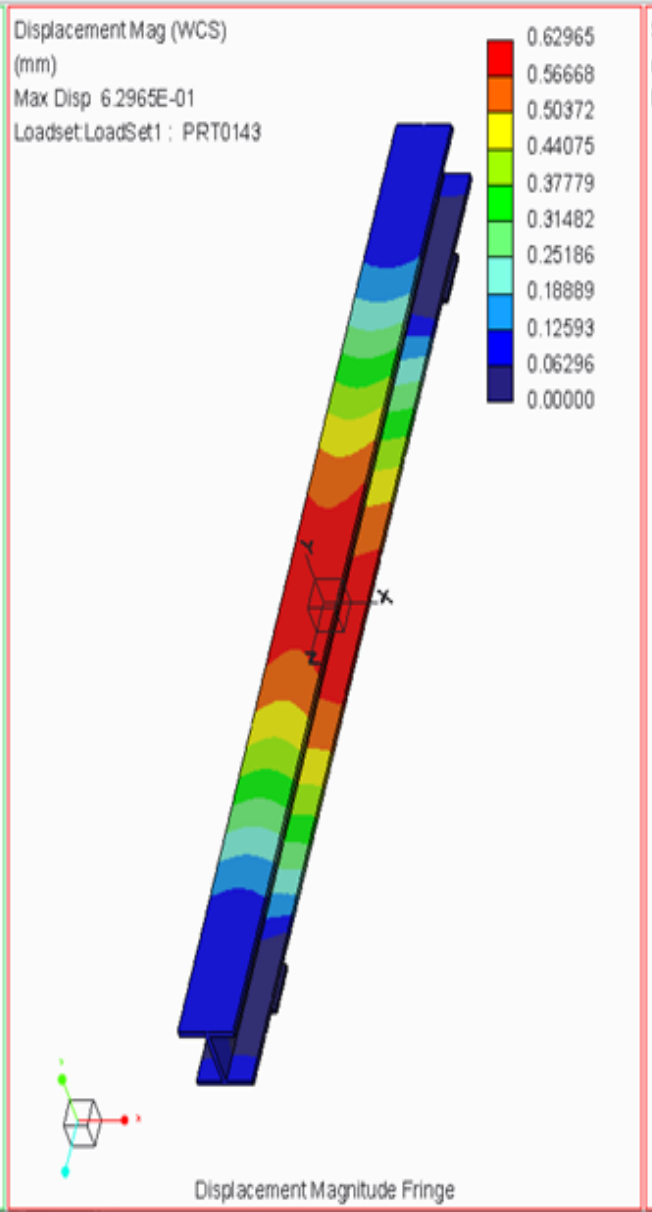
NTC Logistics

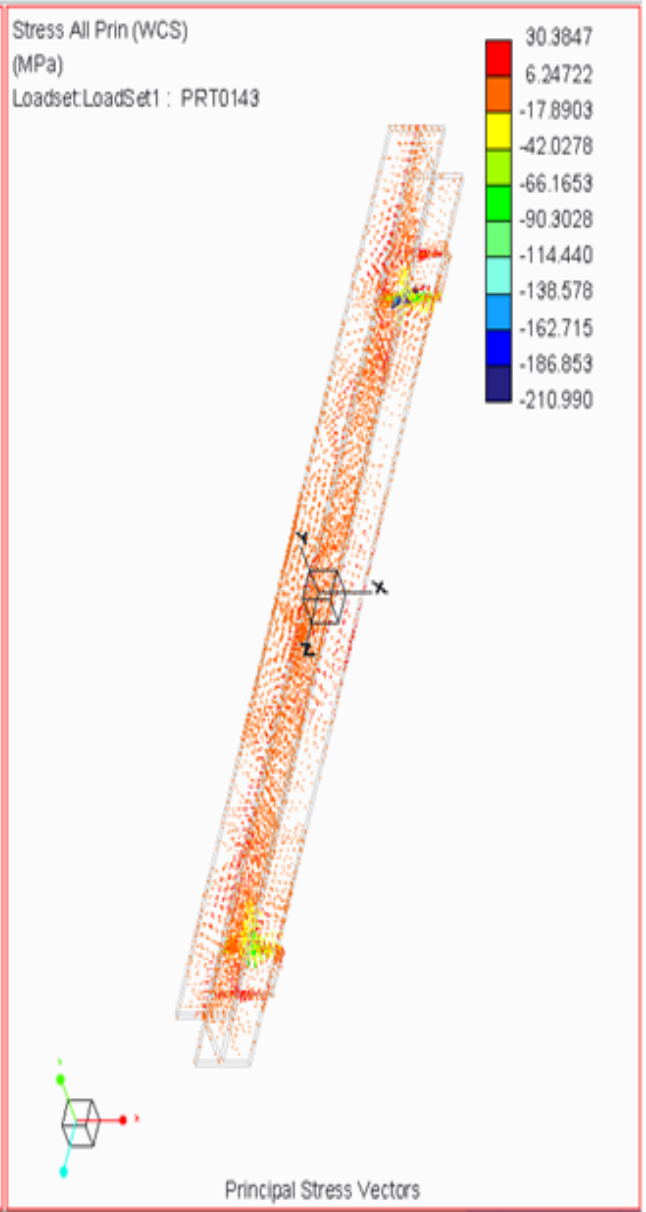
Gantry Crane



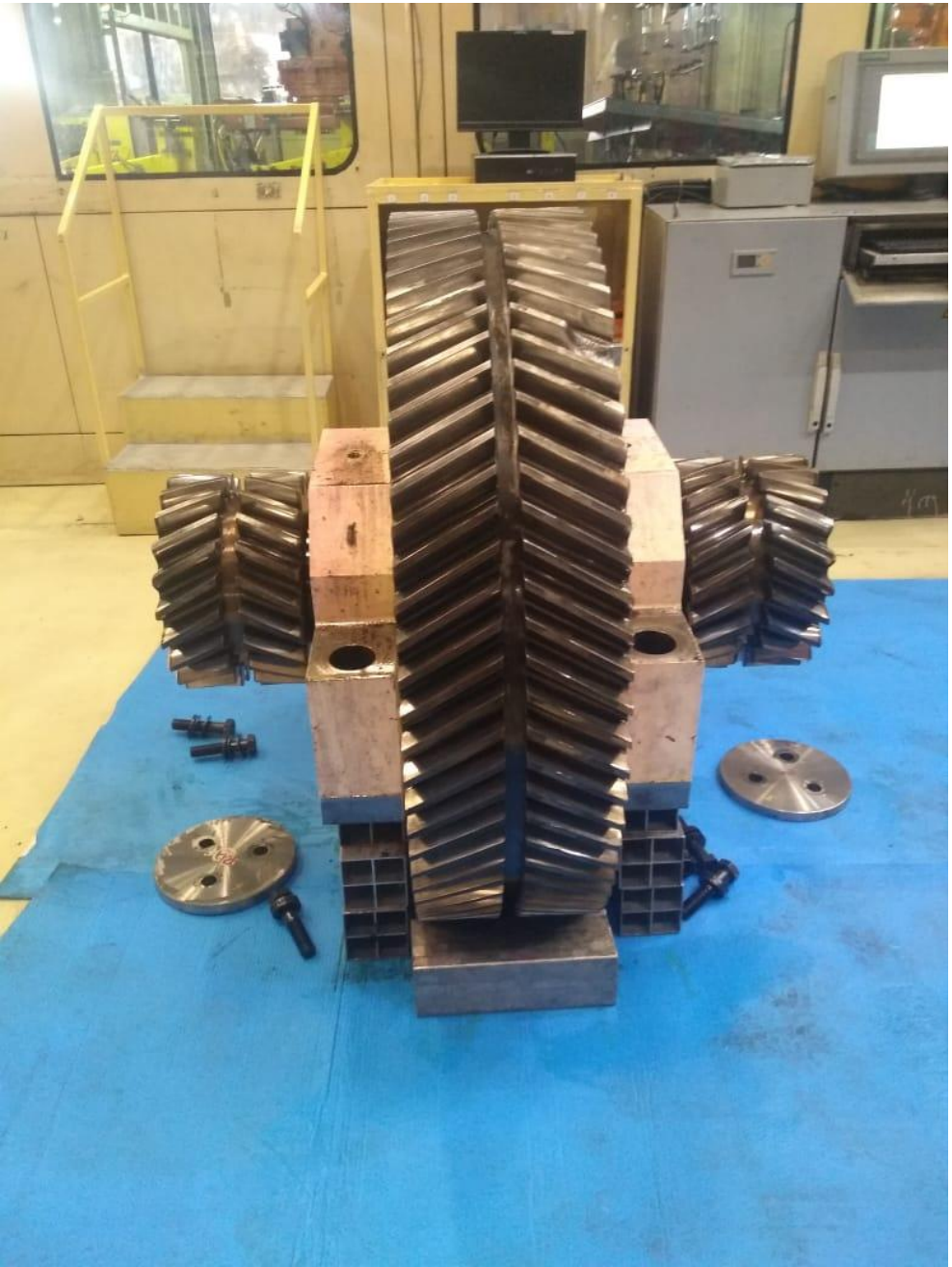
Gantry crane H-Beam



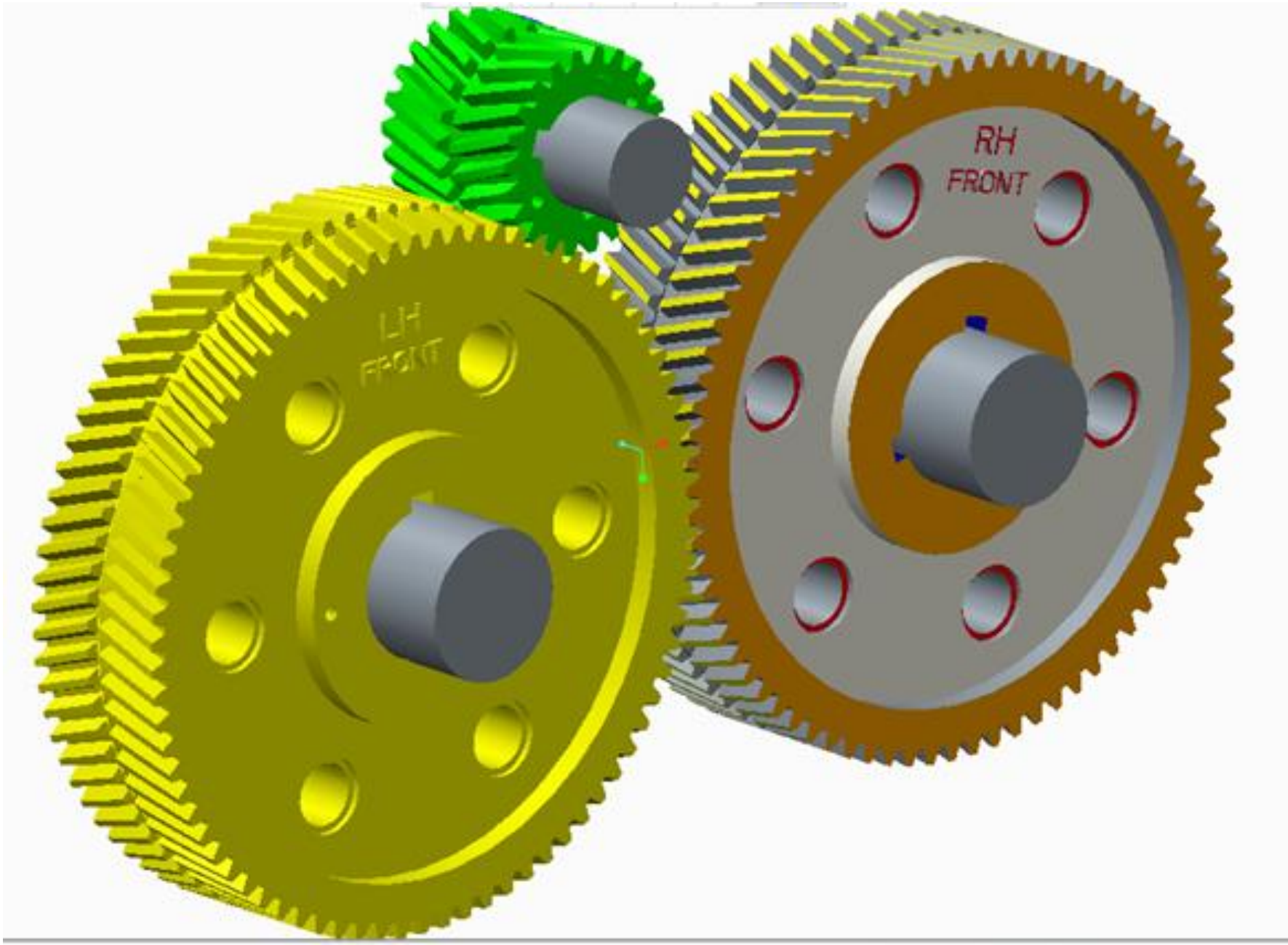




Renault Nissan – Rovetta 1200ton press



Rovetta 1200ton press main drive gears change



Ferule Printing Machine

Socket spanner set


DEWALT

HITACHI


MOSTA DVD-12SA
10mm CORDLESS DRIVER DRILL
MOSTA TOOLS CO., LTD. 12V
MOSTA MT1008
CHARGER
Mosta Corporation


200
100


KING TONY
SOCKET WRENCH SET


POWERMASTER
GRIPWELD
GRIPWELD
GRIPWELD


EAGLE
G-40L
STOP
2
DAIKI
OK
NO1
OK


WARNING
DO NOT USE ABOVE THE PRESSURE


TRUSCO
ADJ
1DIV=0.02mm/1m(4SEC)
NO , T130246


TRUSCO
KONOIKE
TRANSPORTATION
PRO 300mm
TRUSCO
TTR-13


I.P.P.E
TIG & ARC 200

3000kg CAPACITY


SN1-250
SEYI
P1
SN1-250
SEYI
P2
SNC-250
SEYI
P3
PDNP1

Thank you

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Web - www.ippengineers.in
Web - www.ippengineers.com