# Paviath
# Engineering Solution

Presents

## Career Options in Mechanical Engineering

www.paviathenggsolution.com

- On Area
- On Application
- On career Selection
- Profession

- Design
- Production
- Service/ Maintenance
- Marketing

# INDIAN ENGINEERS HAVE INDIVIDUAL CAPABILITY TO SELECT BY OUR BASIC CULTURE

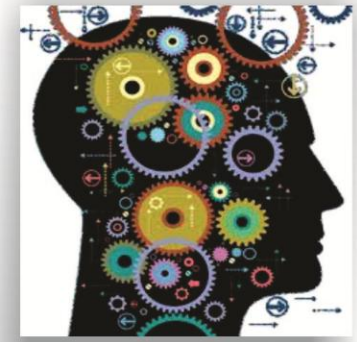
# OUR BASIC SCIENCE

# MUST UNDERSTAND

## WHAT TO DO???

### APTITUDE


### CAPACITY



### APPROACH

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# BEFORE PROFESSIONAL STEP

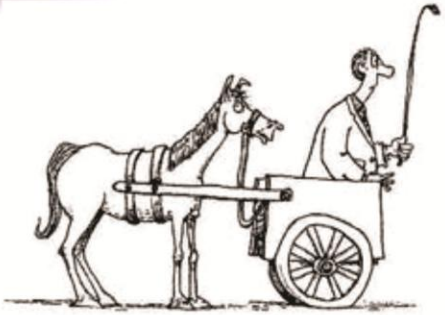
0° Remuneration

360° First
Professional Step


90° First Step


270° Consulting

180° Previous Path



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# AUTOMOBILE

- CONCEPTUAL MECHANISM
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- 2D/DATA BASE
- 3D/PDM/BOM
- PART/ASSEMBLY
- ANIMATION
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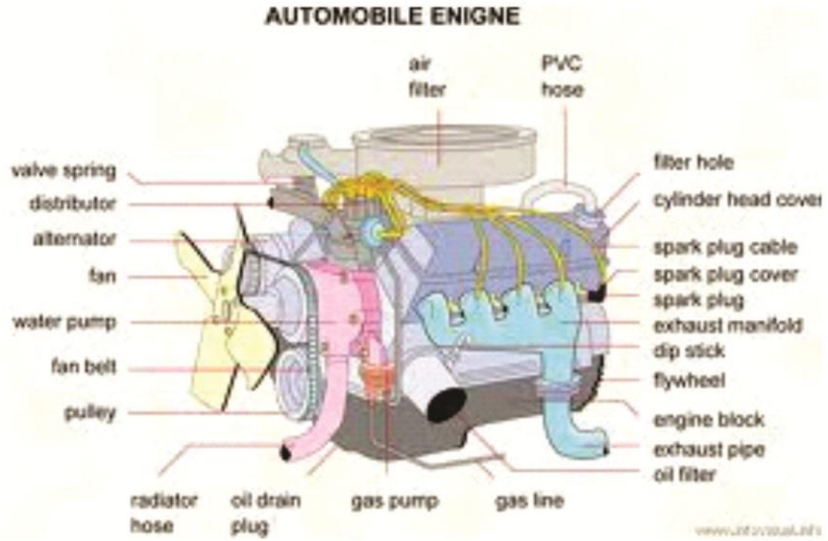
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS
-



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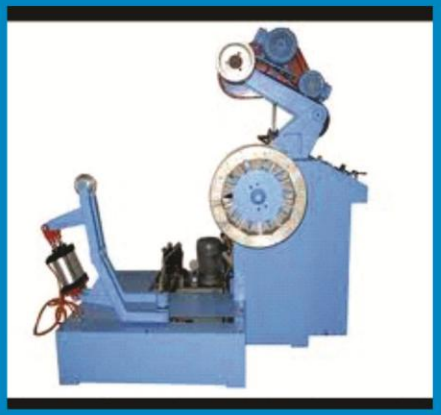
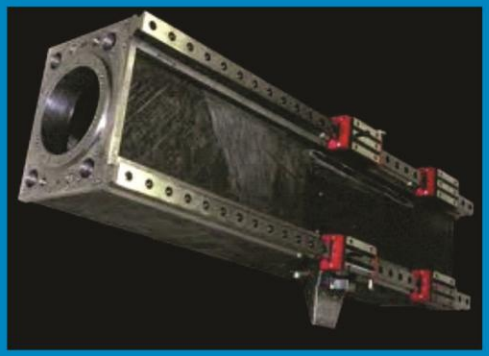
# MACHINE BUILDING





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# CONSTRUCTION

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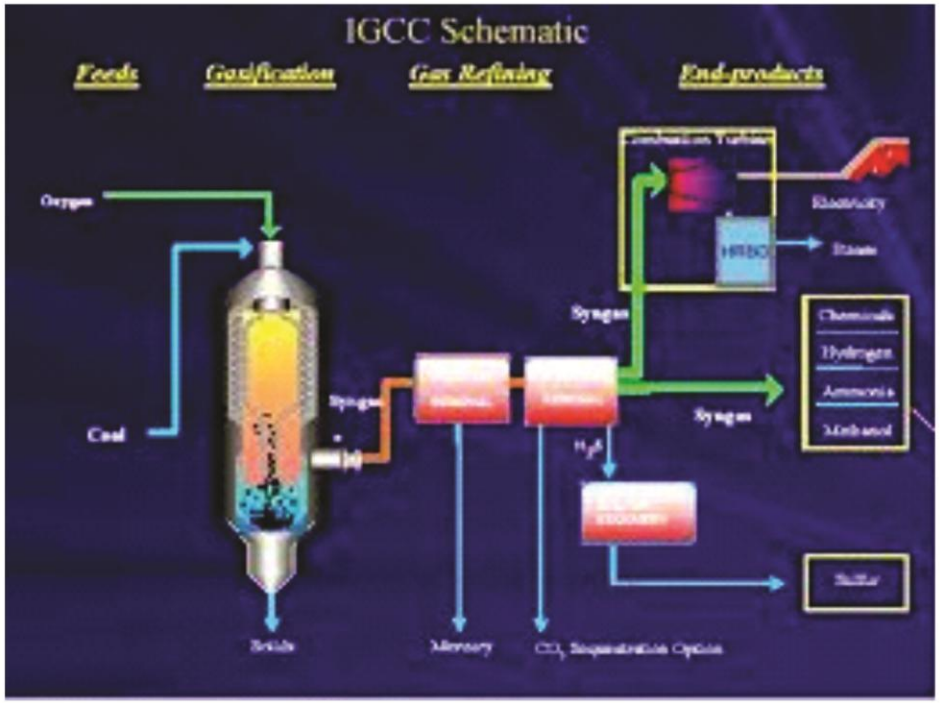
# CHEMICAL POWERPLANT

- STRENGTH ANALYSIS
- STABILITY ANALYSIS
- SEISMIC ANALYSIS
- NOZZLE ANALYSIS
- PIPE STRESS ANALYSIS
- THEMAL FLOW ANALYSIS



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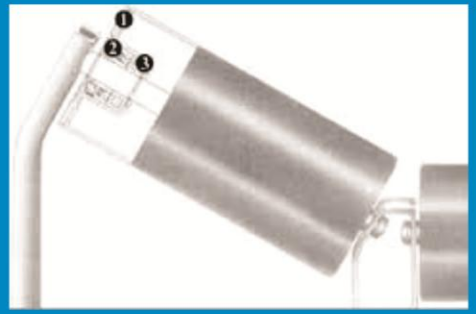
# MATERIAL HANDLING



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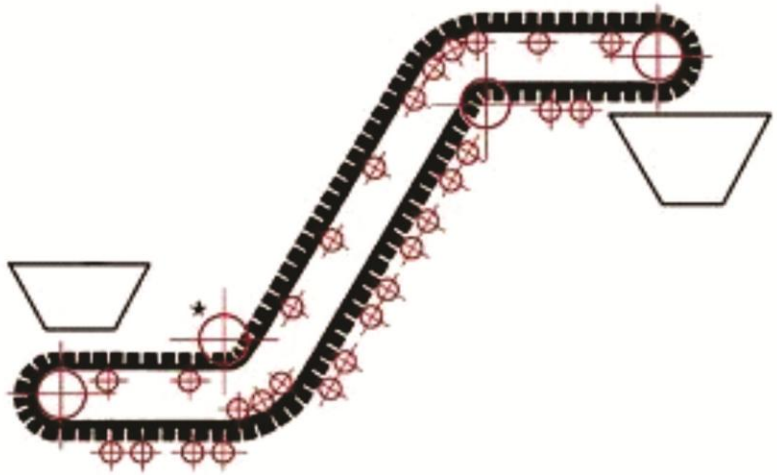

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# MARINE & SHIP BUILDING

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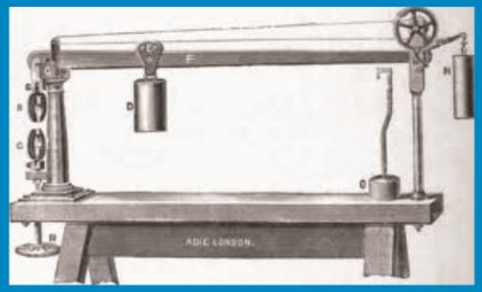
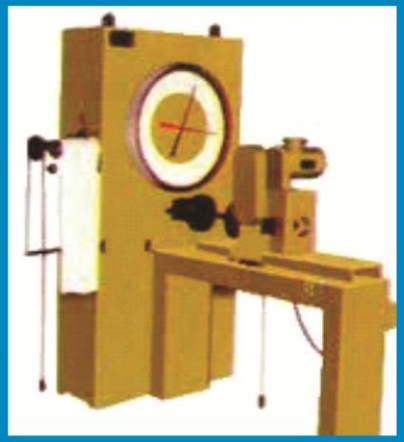
# TESTING -INSPECTION R&D



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# SELF ENTERPREUNERSHP




- CAD/CAE/PLM
- SOLUTION & TRAINING
- DESIGN & DEVELOPMENT
- PROJECT/TRAINING @ INSTITUTION

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# LEATHER INDUSTRIES

- CONCEPTUAL MECHANISM
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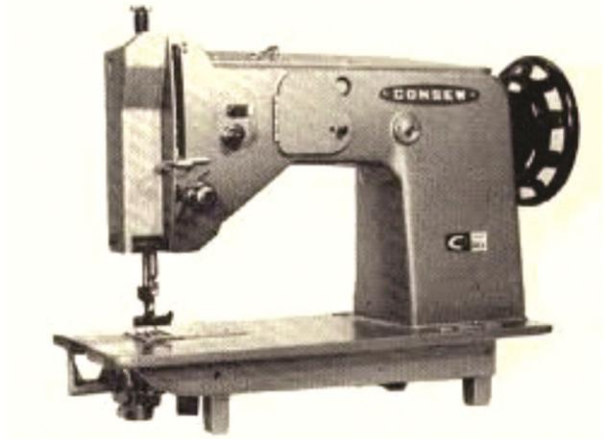


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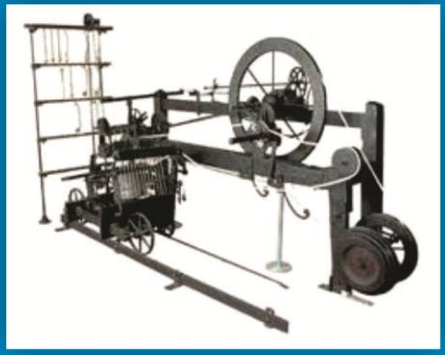
# COTTAGE INDUSTRIES



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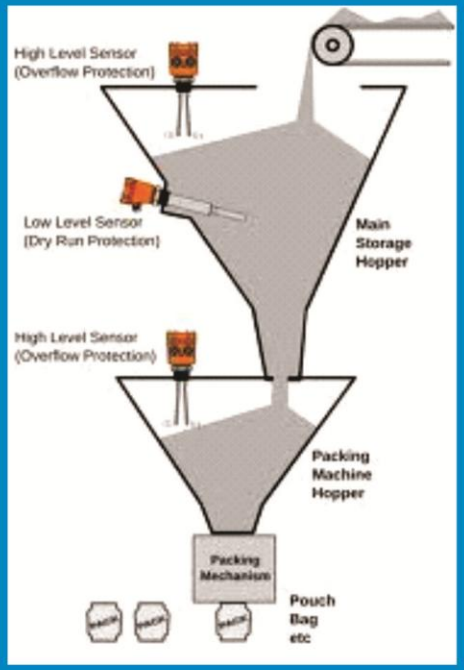
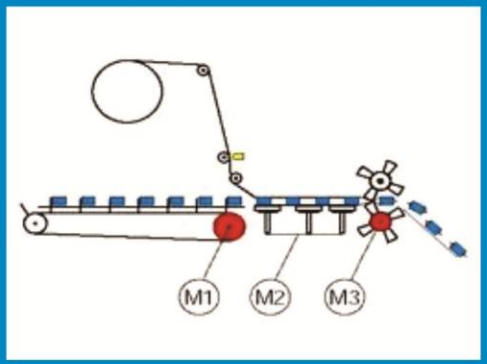
# PACKAGING MACHINES

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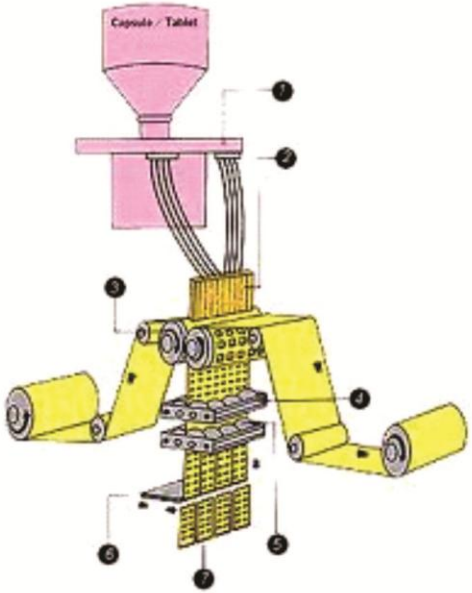

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# PAPER WORKING MACHINES

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# GARMENT PROCESSING MACHINES

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# WOOD WORKING MACHINES

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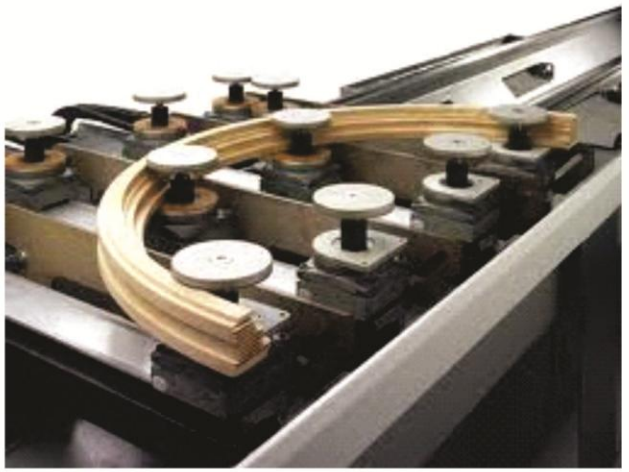

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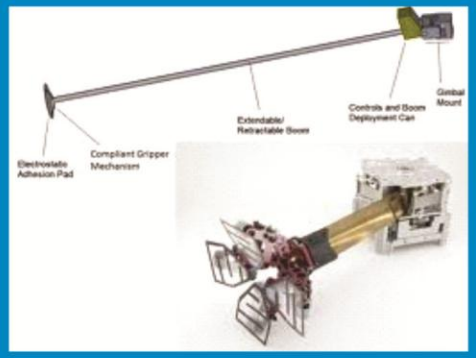
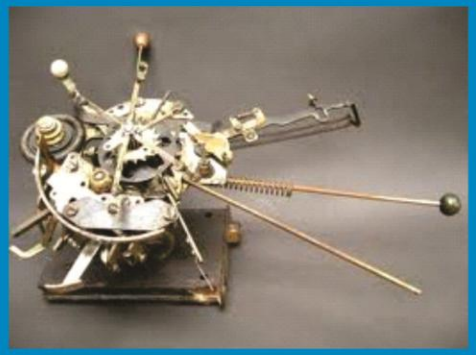
# SPACE MACHINES



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# ENTERTAINMENT PARK MACHINES

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# INTERIOR FURNITURE MODULAR

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# MINERAL PROCESSING MACHINES



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# AUTOMATION MACHINES

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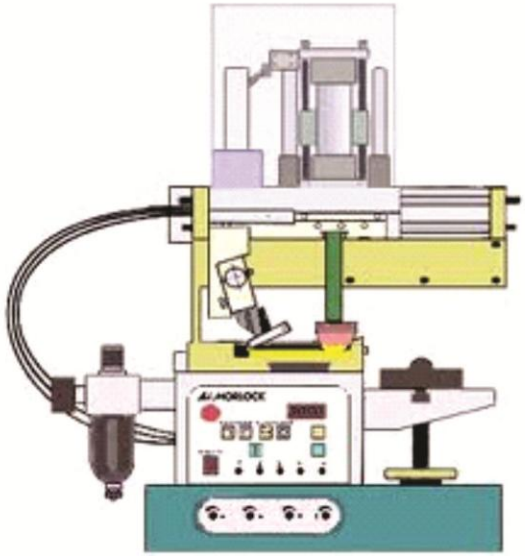

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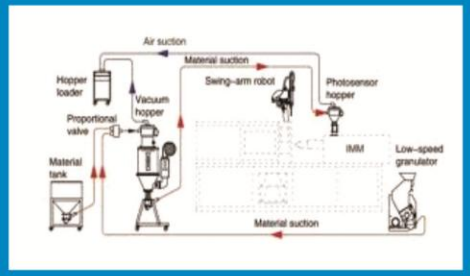
# PLASTIC MACHINES

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# AGRICULTURE MACHINES


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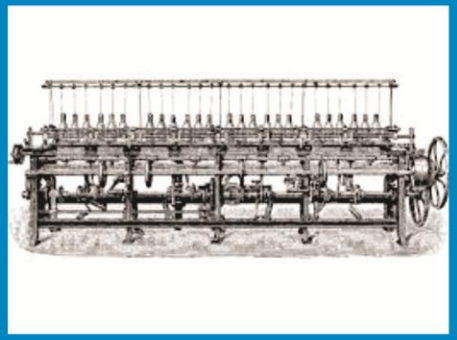
# TEXTILE MACHINES



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# PRINTING MACHINES

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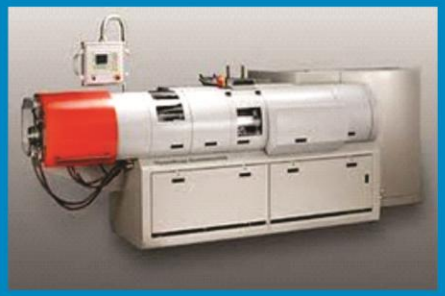
# RUBBER MACHINES



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# BE ANY INDUSTRY?

ENTREPRENEUR
RUBBER
TEXTILE
CONSTRUCTION
PRINTING
MATERIAL HANDLING
AGRICULTURE
MACHINE BUILDING
AUTOMOBILE
MARINE
INTERIOR
PAPER
R & D
GARMENT
FOOD
LEATHER
ENTERTAINMENT
AUTOMATION
PLASTIC
WOOD
CHEMICAL
MINERAL PROCESSING
COTTAGE

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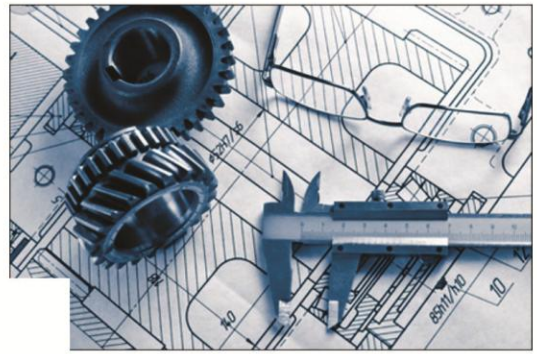
# DESIGN & DEVELOPMENT



CONCEPT

INPUT

KINEMATICS

CAE → CAD → MBD → PLM → PRODUCT

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# PRODUCTION

PROCESS CHART → MACHINE → FIXTURE → TOOLINGS → GAUGES → CONTROLLED DIMENSION → LINE INSPECTION → FINAL INSPECTION → PLM → ISO AUDITING

- ACCEPTED
- REJECTION
- REPEATABILITY
- PRODUCTION COST
- INVENTORY

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# QUALITY CONTROL / SALES & SERVICE DEPARTMENT

QUALITY CONTROL


SALES & SERVICE

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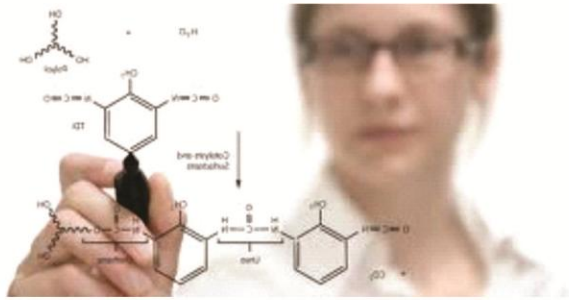
# R & D DEPARTMENT

R & D

FAULT
DIAGONIZATION



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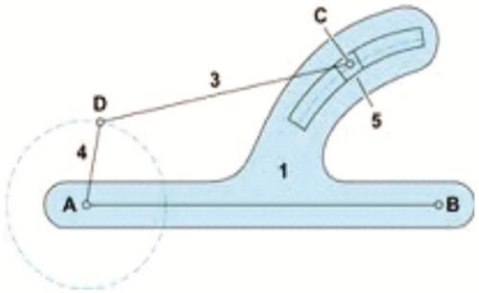
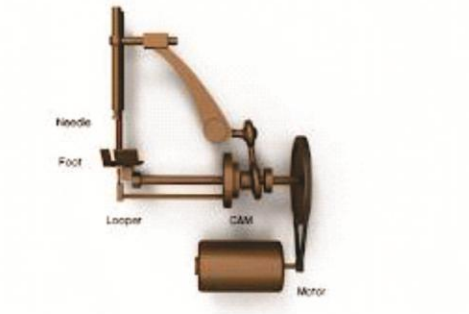
# MAINTENANCE DEPARTMENT / HIGHER EDUCATION

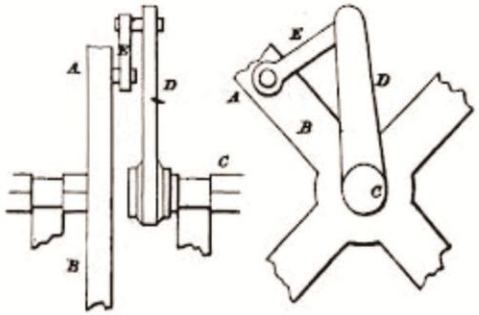
## MAINTENANCE DEPARTMENT

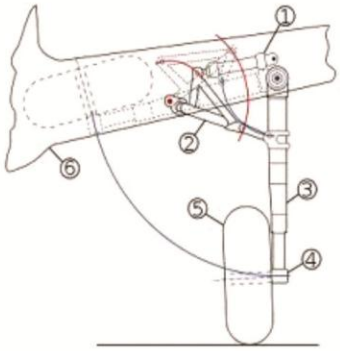
## HIGHER EDUCATION

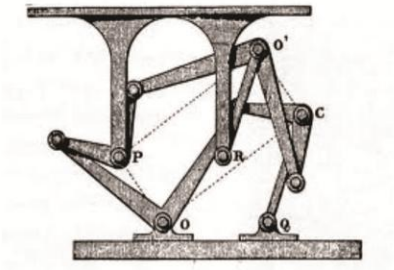
# CONCEPTUAL MECHANISM

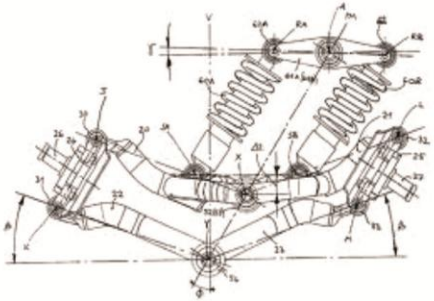


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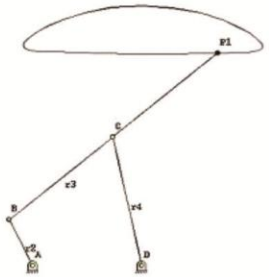
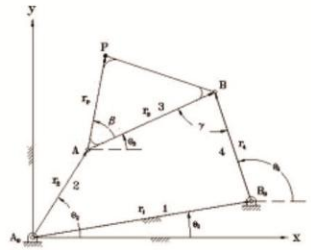
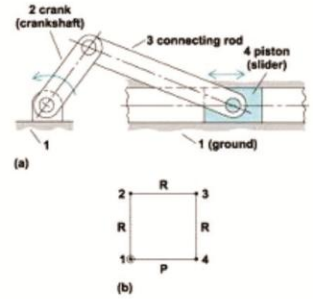
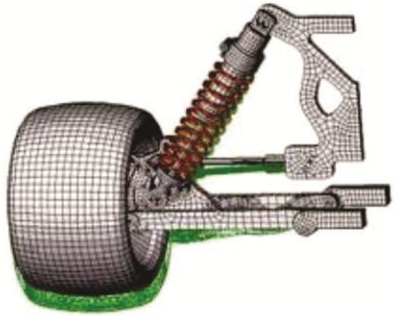
# KINEMATICS

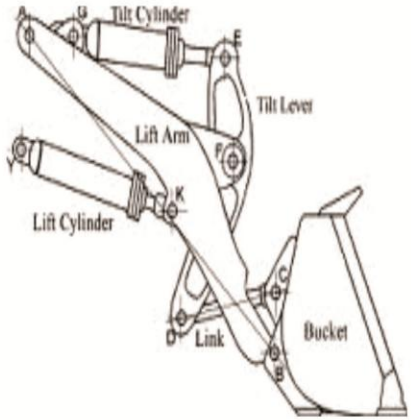
## (DISPLACEMENT/VELOCITY/ ACCELERATION/DIMENSION)

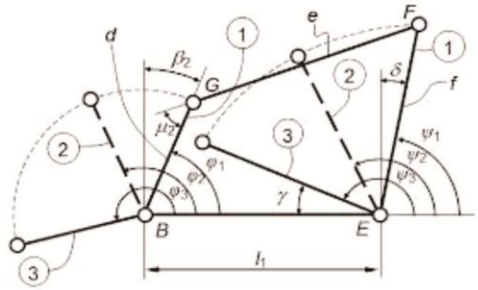






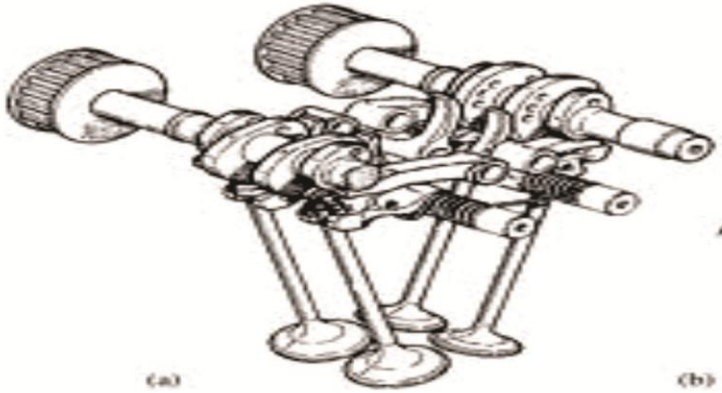



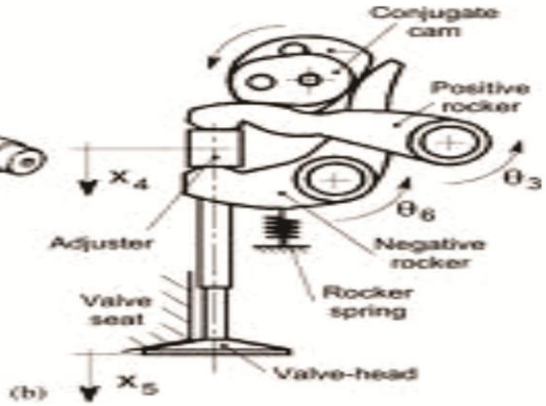


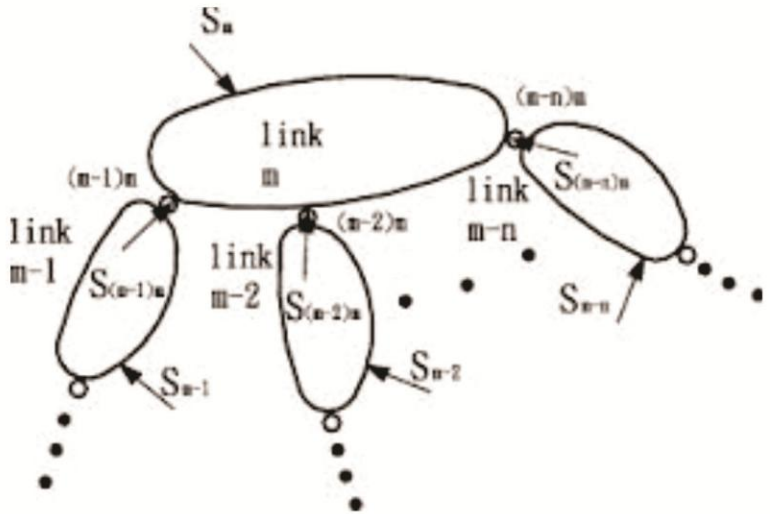



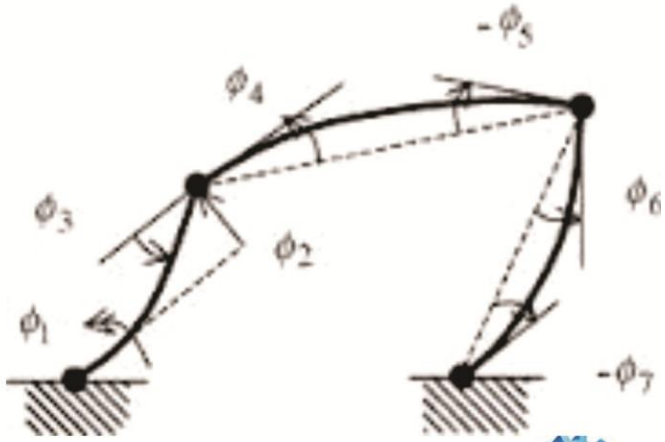

# KINETO - STATICS

## (MASS/M.I/C.G/FORCE/ TORQUE/POWER)



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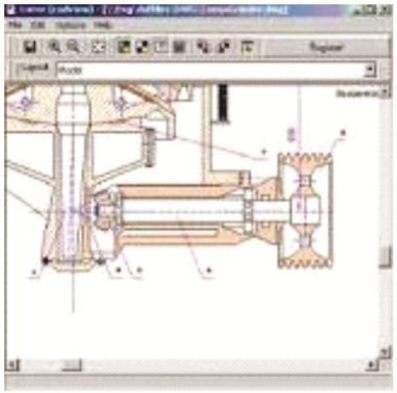
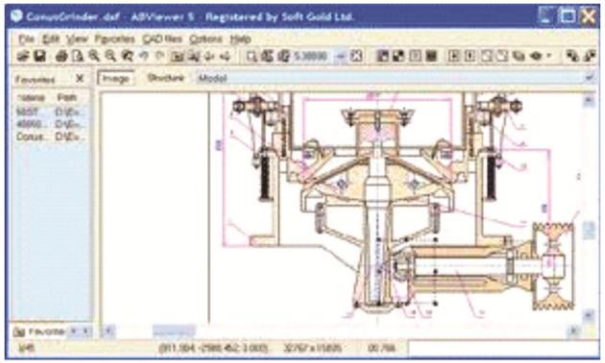
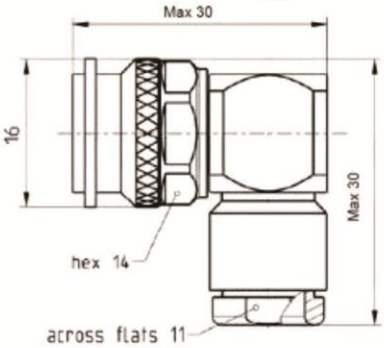
# 2D / 3D

## 2D








## 3D

## ELEMENTS

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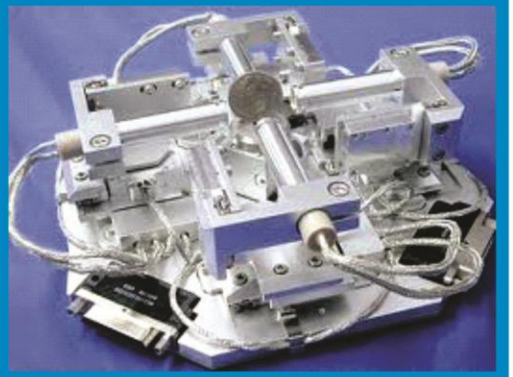
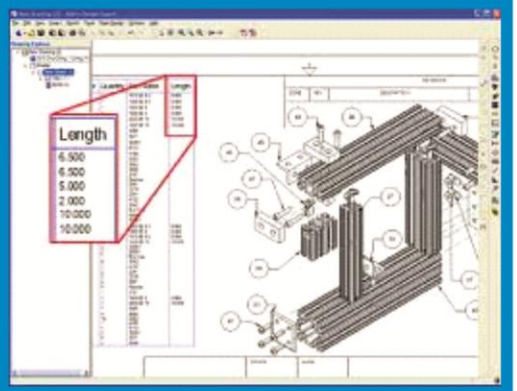
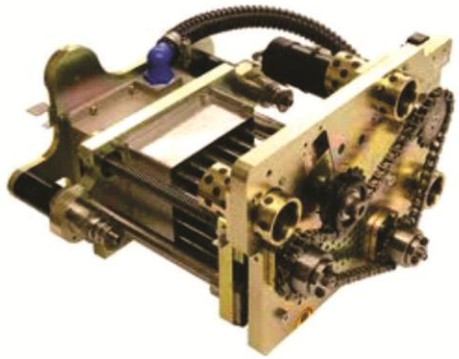
# ASSEMBLY/ BOM

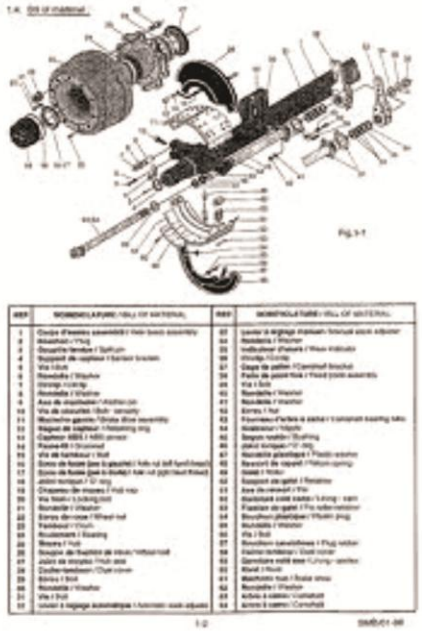
## ASSEMBLY

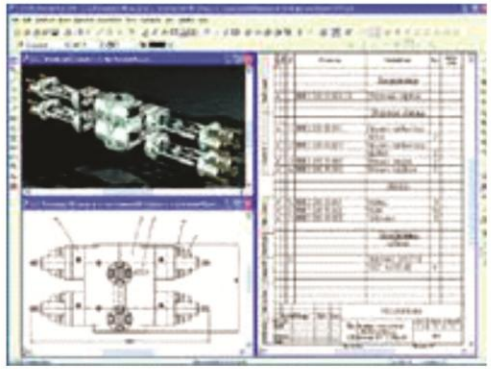


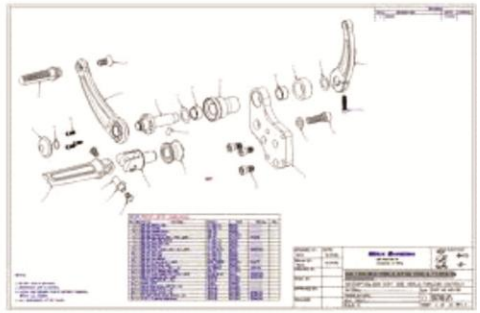
## BOM









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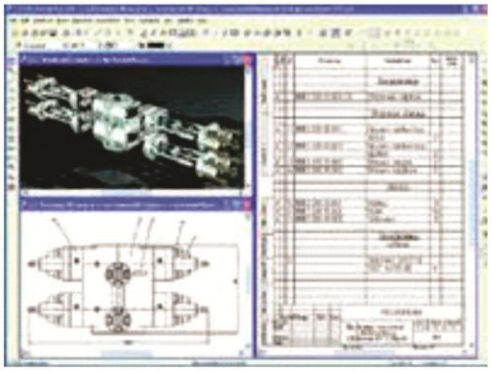
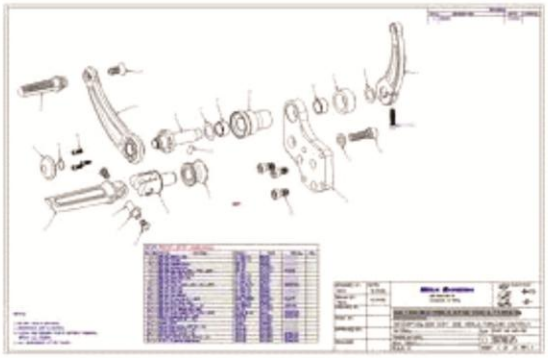
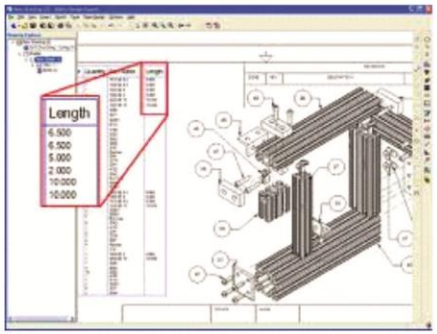
# DIMENSION ANALYSIS PARAMETRIC

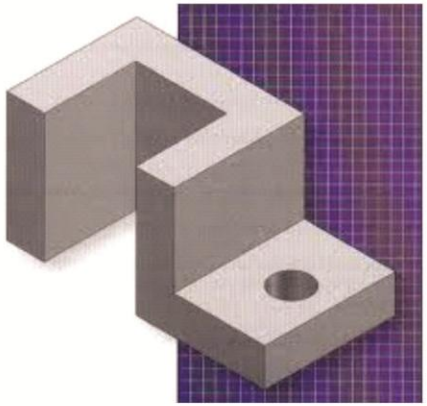
## DIMENSION ANALYSIS

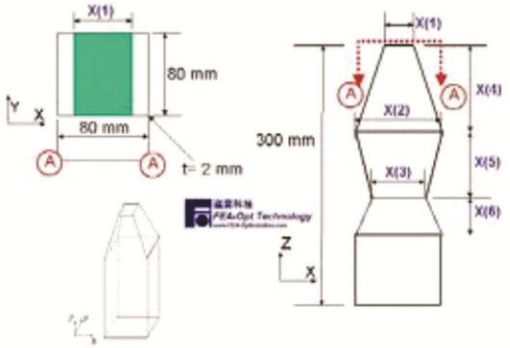


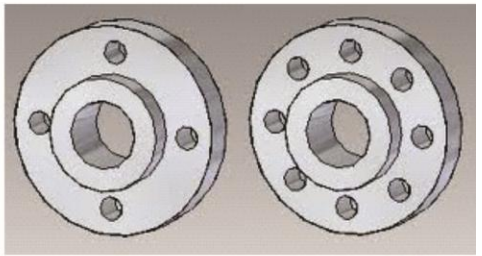





## PARAMETRIC





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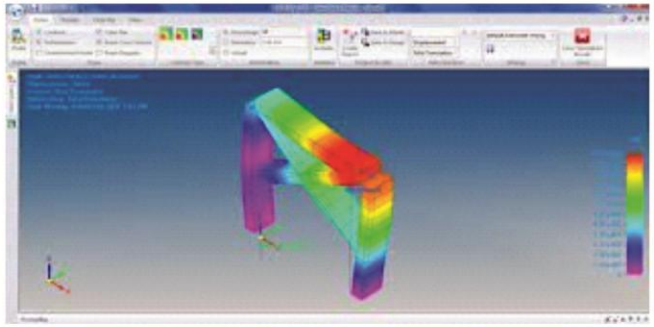
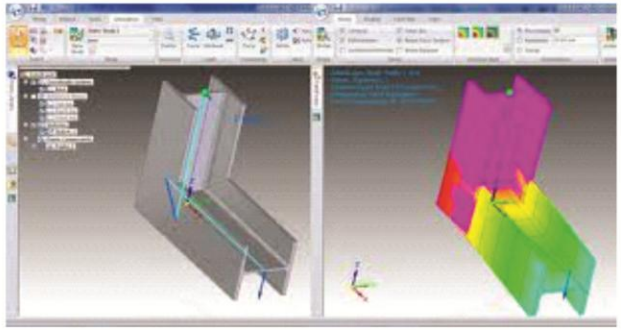
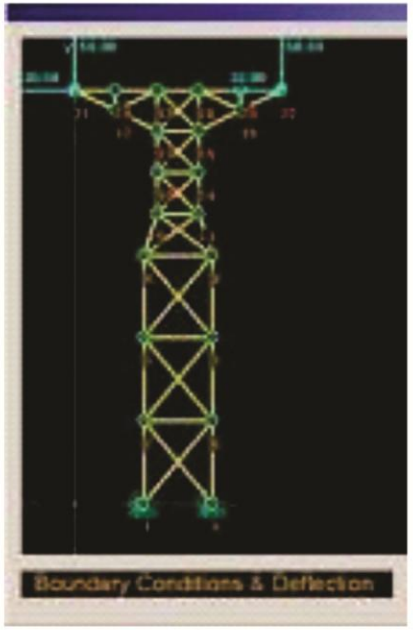
# DIMENSIONAL STRUCTURE ANALYSIS

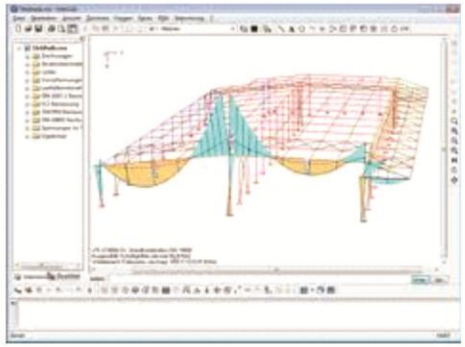
## 1 DIMENSIONAL ANALYSIS

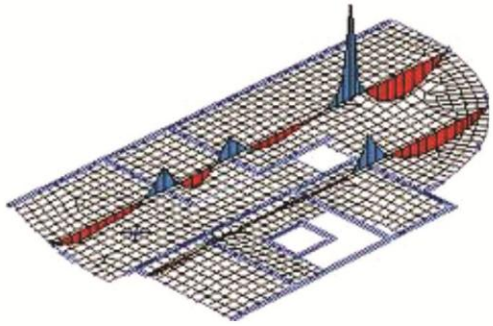







## 2 DIMENSIONAL ANALYSIS





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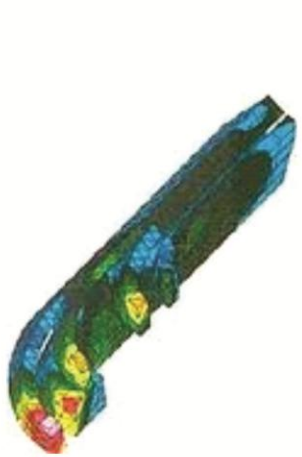
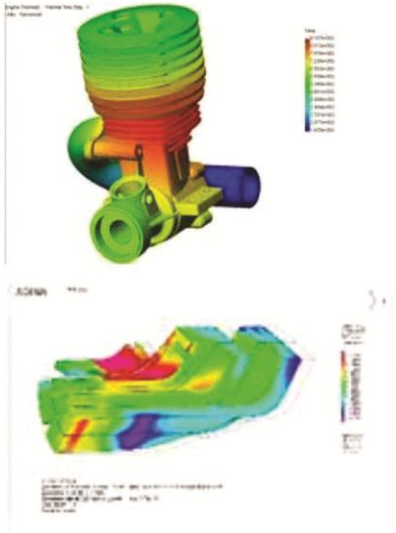
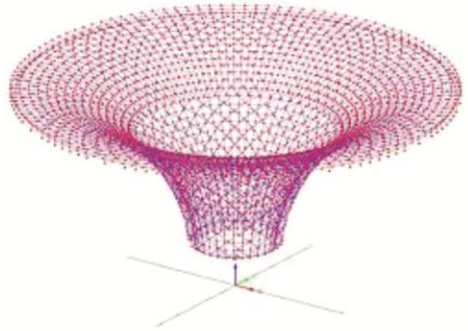
# STRUCTURE ANALYSIS / MODAL ANALYSIS

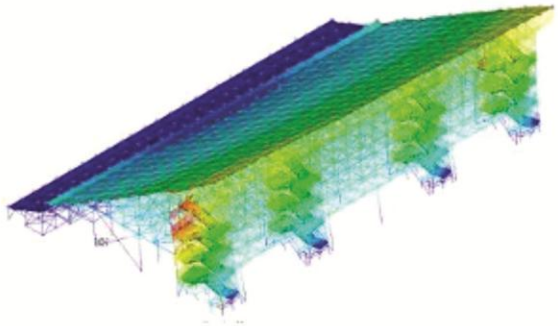
## 3 DIMENSIONAL ANALYSIS

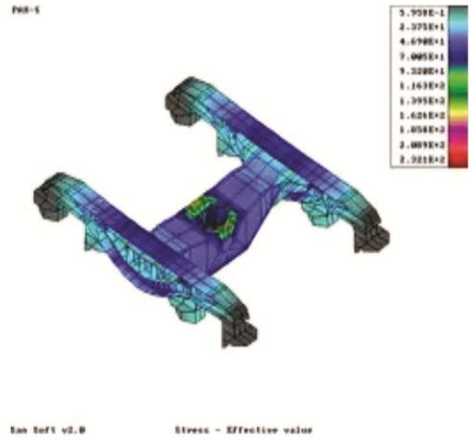


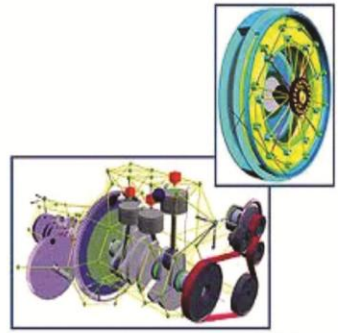




## STRUCTURE MODAL ANALYSIS







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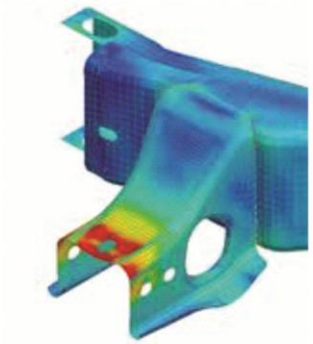
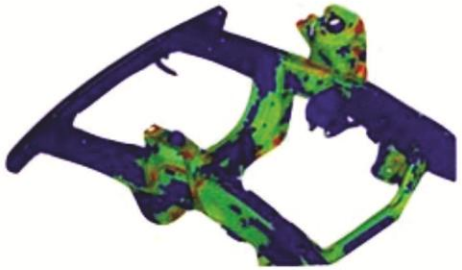
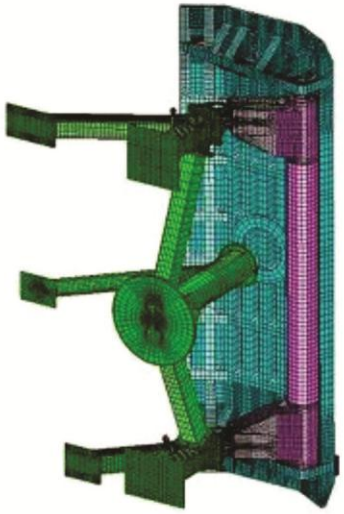
# FATIQUE ANALYSIS / STATIC ANALYSIS

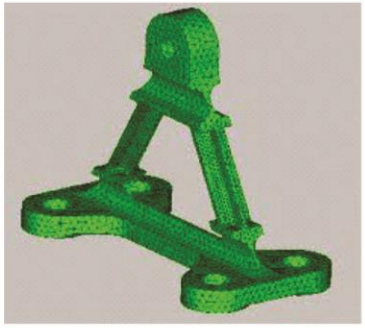
## STRUCTURE FATIQUE ANALYSIS

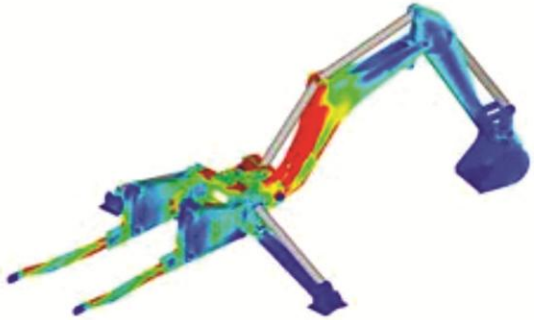


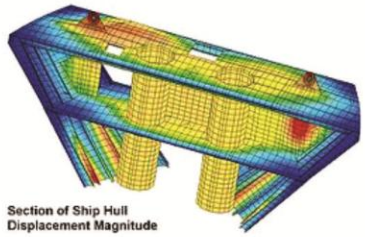




## FEA STATIC ANALYSIS







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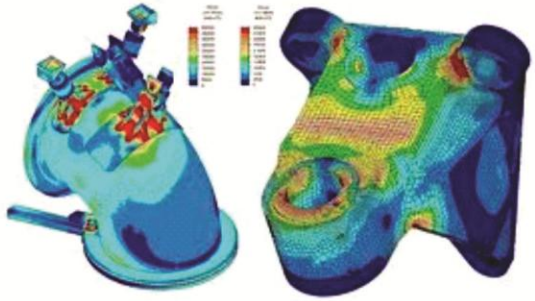
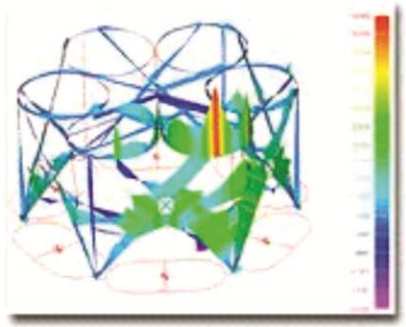
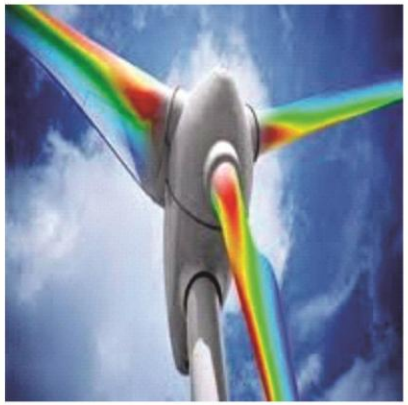
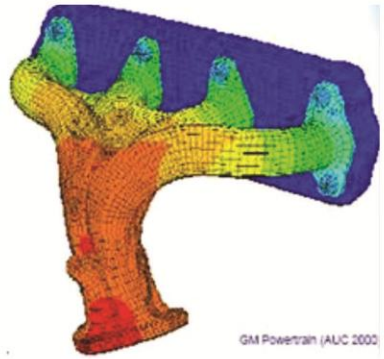
# DYNAMIC ANALYSIS

## FEA DYNAMIC ANALYSIS

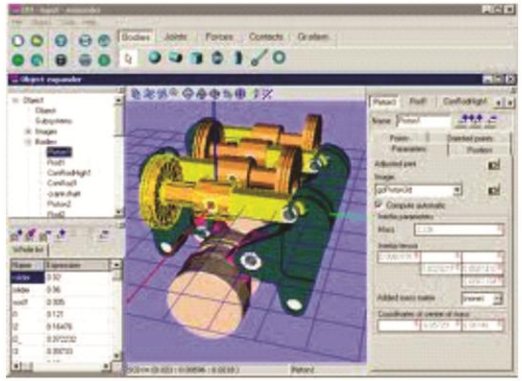


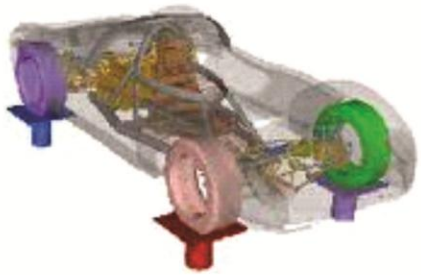







## MULTIBODY DYNAMIC ANALYSIS





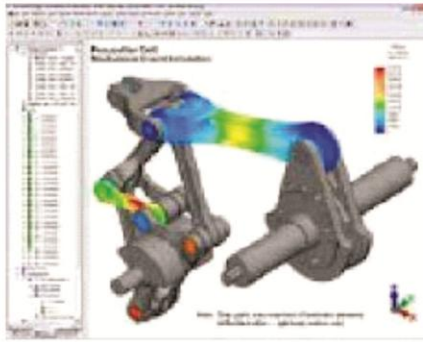


Figure 2. Chassis eigenmode of a pickup at $f$=11.2 Hz.

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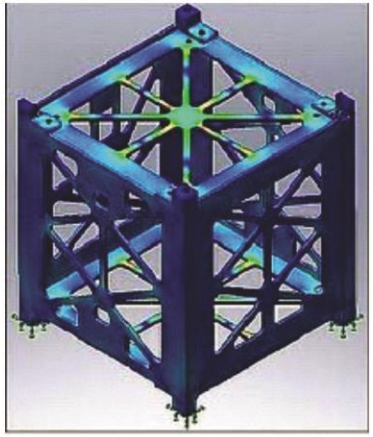
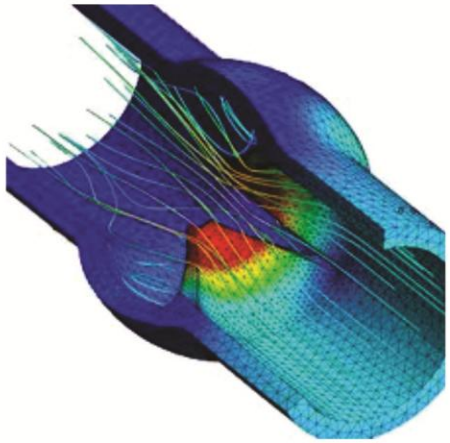
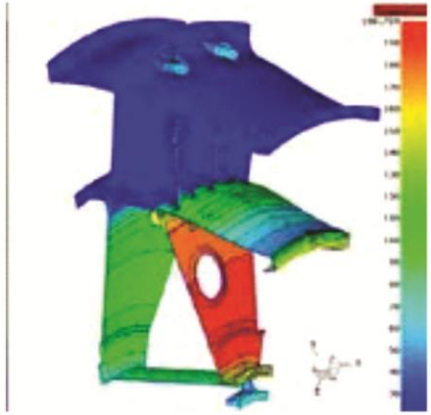
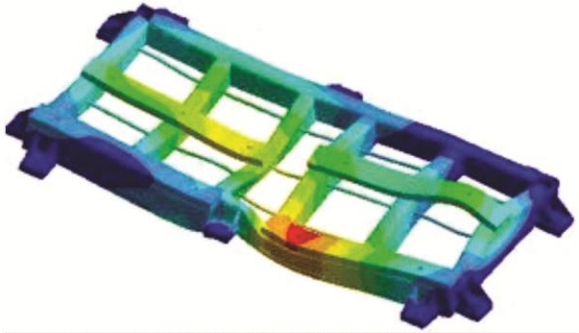
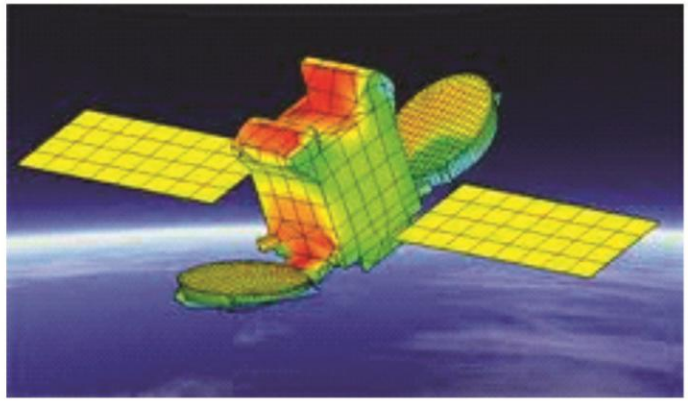
# STRUCTURE THERMAL ANALYSIS

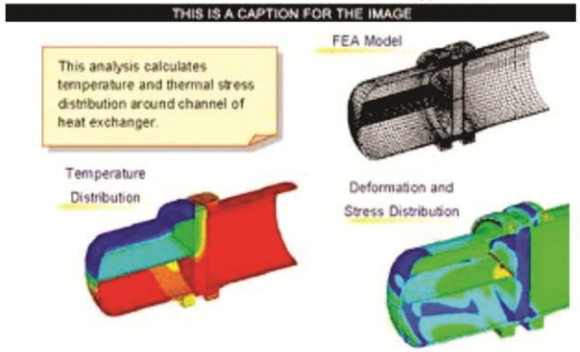












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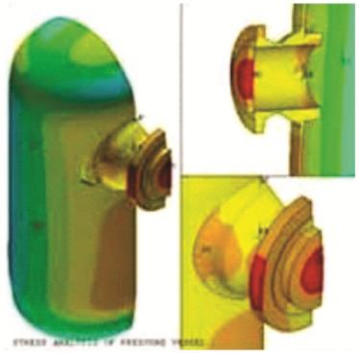
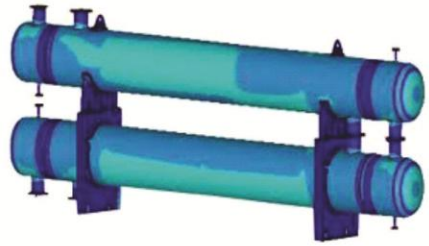
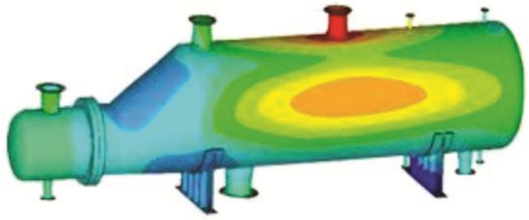
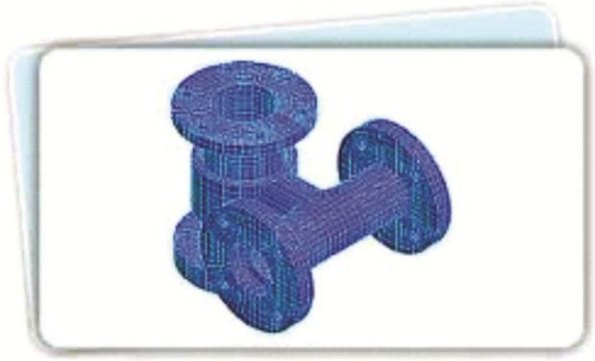
# THERMAL EQUIPMENT

## PRESSURE VESSELS









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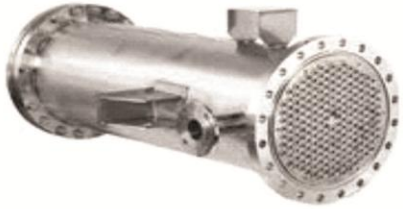

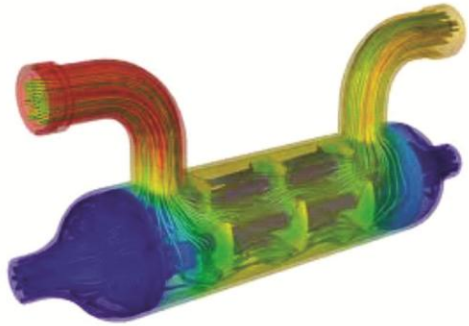

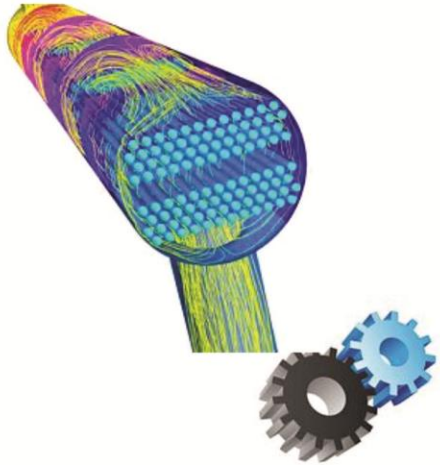

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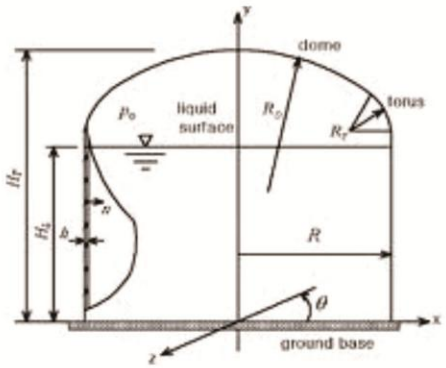
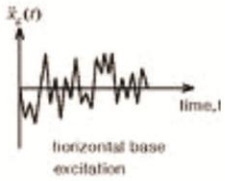
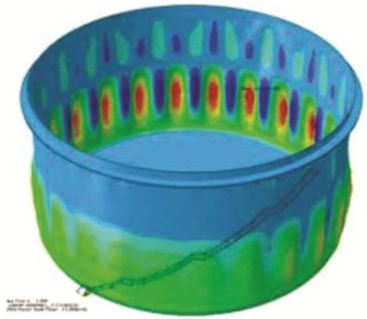
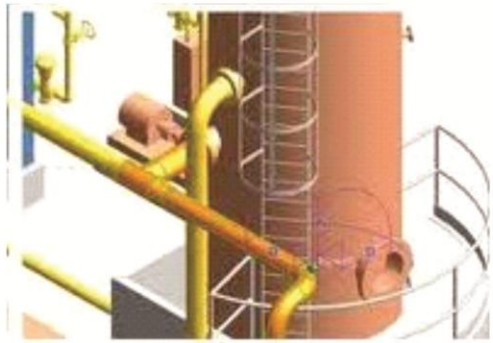
# THERMAL EQUIPMENT

## STORAGE TANKS

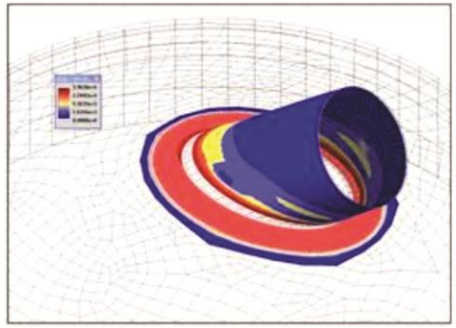


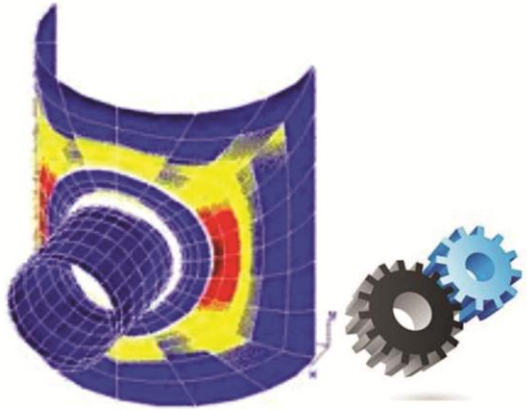





## NOZZLE ANALYSIS



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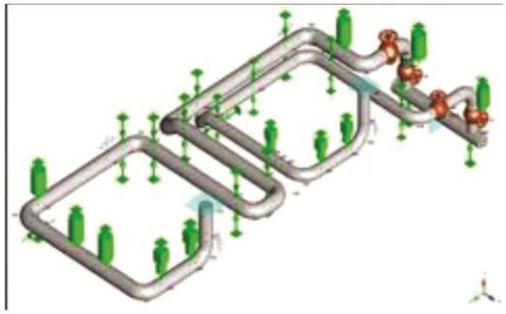
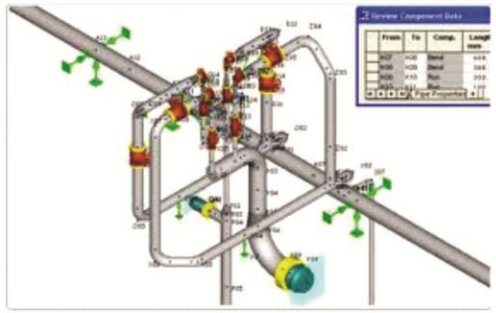
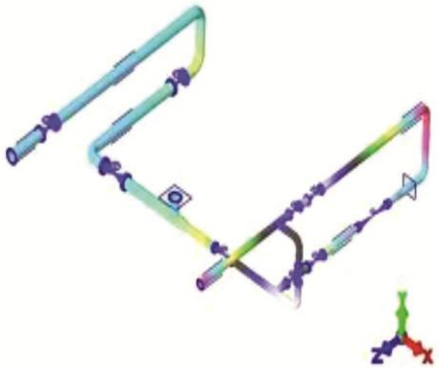
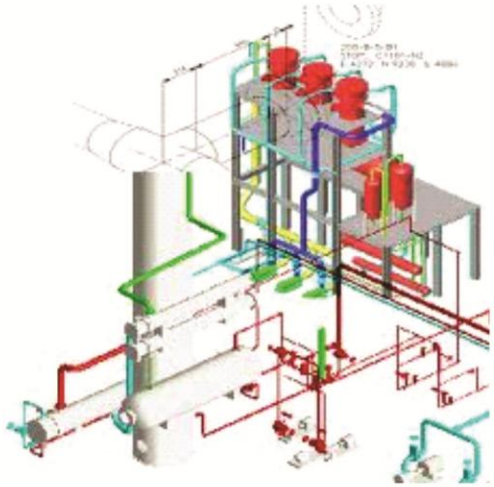
# PIPE STRESS ANALYSIS

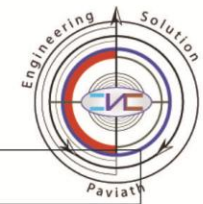








# REFERENCE BOOKS




| | |
|---|---|
| PRODUCTION TECHNOLOGY | HMT BANGALORE |
| DESIGN DATA BOOK | PSG COLLEGE OF |
| MACHINE TOOL DESIGN HAND BOOK | CMTI BANGALORE |
| APM MACHINE DESIGN BOOK | VADIM SHELOFAST |
| KINEMATICS GEOMETRY OF MECHANISM | L.C.WOODS, W.H.WITTRICK, |
| KINEMATICS AND MECHANISM | GEORGE SANDOR |
| MACHINE TOOL DESIGN – I,II,III,IV | N.ACHERKAN |
| Wb3303 MECHANISM | DR.IR.A.J.KLEIN BRETELER |
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| INGENIOUS MECHANISM FOR DESIGN&INVENTORS(VOLUMES) | JOHN A.NEWELL, HOLBROOK |
| DESIGN OF MACHINERY | ROBERT L.NORTON |
| FUNDAMENTALS OF MACHINE DESIGN (VOLUMES) | P.ORLOV |
| MACHINE DESIGN | RESHETOV |
| KONSTRUKTIVE GETRIEBELEHRE" (IN GERMAN) | LEO HAGEDORN, WOLFGANG ADRIAN RANKERS THONFELD |

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# APPLICATION TOOL ON AREAS

### VARICAD
- 2d/3d
- Part/assembly
- Pdm/bom
- Interference
- Parametric
- Geometrical constraints
- Shells modelling

### KOMPAS 3D V13+
- 2D/DATA BASE
- 3D/PDM/BOM
- PART/ASSEMBLY
- 3D PIPING
- ANIMATION
- INTERFERANCE
- PARAMETRIC
- DIMN. ANALYSIS
- 1D ANALYSIS
- 2D ANALYSIS
- 3D ANALYSIS
- MODAL ANALYSIS
- FATIQUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

- RUBBER MACHINES & EQUIPMENTS
- PRINTING MACHINES & EQUIPMENTS
- TEXTILE MACHINES & EQUIPMENTS
- AGRICULTURE MACHINES & EQUIPMENTS
- PLASTIC MACHINES & EQUIPMENTS
- AUTOMATION MACHINES & EQUIPMENTS
- MINERAL PROCESSING MACHINES & EQUIPMENTS
- INTERIOR FURNITURE MODULAR & EQUIPMENTS

### SAM 6.1
- MECHANISM DESIGN
- MULTI BODY DYNAMICS
- CONCEPTUAL MECHANISM
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- OPTIMIZATION

### APM WINMACHINE
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- 2D/DATA BASE
- 3D/PDM
- ELEMENT MECHANISM
- ANALYSIS
- ASSEMBLY ANALYSIS
- PARAMETRIC
- 1D ANALY
- SIS
- 2D ANALYSIS
- 3D ANALYSIS
- MODAL ANALYSIS
- FATIQUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

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# APPLICATION TOOL ON AREAS

### VARICAD
2d/3d
Part/assembly
Pdm/bom
Interference
Parametric
Geometrical constraints
Shells modelling
Pipelines, wires

### KOMPAS 3D V13+
- 2D/DATA BASE
- 3D/PDM/BOM
- PART/ASSEMBLY
- 3D PIPING
- ANIMATION
- INTERFERANCE
- PARAMETRIC
- DIMN. ANALYSIS
- 1D ANALYSIS
- 2D ANALYSIS
- 3D ANALYSIS
- MODAL ANALYSIS
- FATIQUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

- ENTERTAINMENT PARK MACHINES
- SPACE MACHINES
- WOOD WORKING MACHINES
- GARMENT PROCESSING MACHINES
- PAPER WORKING MACHINES
- PACKAGING MACHINES
- COTTAGE INDUSTRIES
- FOOD INDUSTRIES
-

### SAM 6.1
- MECHANISM DESIGN
- MULTI BODY DYNAMICS
- CONCEPTUAL MECHANISM
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- OPTIMIZATION

### APM WINMACHINE
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- 2D/DATA BASE
- 3D/PDM
- ELEMENT MECHANISM
- ANALYSIS
- ASSEMBLY ANALYSIS
- PARAMETRIC
- 1D ANALY
- SIS
- 2D ANALYSIS
- 3D ANALYSIS
- MODAL ANALYSIS
- FATIQUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

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# APPLICATION TOOL ON AREAS

### VARICAD
2d/3d
Part/assembly
Pdm/bom
Interference
Parametric
Geometrical constraints
Shells modelling
Pipelines, wires
Calculations of 3D object

### KOMPAS 3D V13+
- 2D/DATA BASE
- 3D/PDM/BOM
- PART/ASSEMBLY
- 3D PIPING
- ANIMATION
- INTERFERANCE
- PARAMETRIC
- DIMN. ANALYSIS
- 1D ANALYSIS
- 2D ANALYSIS
- 3D ANALYSIS
- MODAL ANALYSIS
- FATIQUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

- AUTOMOBILE
- MACHINE BUILDING
- CONSTRUCTION
- MATERIAL AND BULK HANDING
- MARINE AND SHIP BUILDING
- TESTING -INSPECTION R&D
- SELF ENTREPRENEURSHIP

### SAM 6.1
- MECHANISM DESIGN
- MULTI BODY DYNAMICS
- CONCEPTUAL MECHANISM
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- OPTIMIZATION

### APM WINMACHINE
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- 2D/DATA BASE
- 3D/PDM
- ELEMENT MECHANISM
- ANALYSIS
- ASSEMBLY ANALYSIS
- PARAMETRIC
- 1D ANALY
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- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

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# APPLICATION TOOL ON AREAS

**HYDROSYSTEM**
- ISO THERMAL FLOW
- NON-ISO THERMAL

**PASSAT**
- PRESSURE VESSELS
- HEAT EXCHANGER
- STORAGE TANK

**START**
- PIPE STRESS ANALYSIS

**NOZZLE - FEM**
NOZZLE ANALYSIS

- CHEMICAL PROCESSING INDUSTRIES
- OIL & GAS INDUSTRIES
- NUCLEAR PLANTS
- BIO FUEL PLANTS
- COAL FIRED PLANTS
- OIL FIRED PLANTS
- WATER PLANTS

**KOMPAS 3D V13+**
- 2D/DATA BASE
- 3D/PDM/BOM
- PART/ASSEMBLY
- 3D PIPING
- ANIMATION
- INTERFERANCE
- PARAMETRIC
- DIMN. ANALYSIS

**APM WINMACHINE**
- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
- 2D/DATA BASE
- 3D/PDM
- ELEMENT MECHANISM
- ANALYSIS
- ASSEMBLY ANALYSIS
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- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

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# EXPLORING MECHANICAL ENGINEERING

NOW YOU WILL HAVE THE CONFIDENCE ON ALL THE MECHANICAL APPLICATION


ABLE TO DIRECT YOUR CAREER IN THE RIGHT DIRECTION

EXPLORE OPTIONS IN MECHANICAL ENGINEERING

READY TO TACKLE ON ANY CHALLENGES WITH PERFECTION


ABLE TO FIND RESULTS ON ALL AREAS

RESULT ON APPLICATION

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# TO CONCLUDE

PAVIATH ENGINEERING SOLUTION PROVIDES CAD/CAE/CAPP PROGRAMS TO INSTITUTIONS AND INDUSTRIES

SOFTWARE TRAINING

OUR STRONG ACADEMIC INPUT IN MECHANICAL ENGINEERING WITH COURSES LIKE

- SAM
- APM WINMACHINE
- KOMPAS 3D
- VARICAD
- START
- PASSAT
- HYDROSYSTEM
- NOZZLE FEM

WILL ENABLE YOU TO COURSE ON NEW DIRECTION IN YOUR CAREER WITH STRONG INDUSTRIAL OUTPUT

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