



Paviath

Engineering Solution

Presents

Career Options in
Mechanical Engineering

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

- ➡ Design
- ➡ Production
- ➡ Service/ Maintenance
- ➡ Marketing



INDIAN ENGINEERS
HAVE INDIVIDUAL
CAPABILITY
TO SELECT
BY OUR BASIC CULTURE





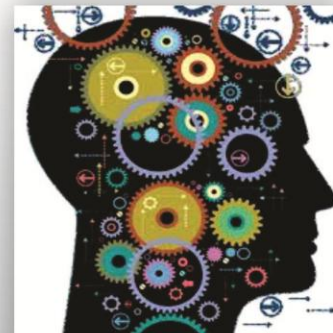
WHAT TO DO???



APTITUDE



CAPACITY



APPROACH

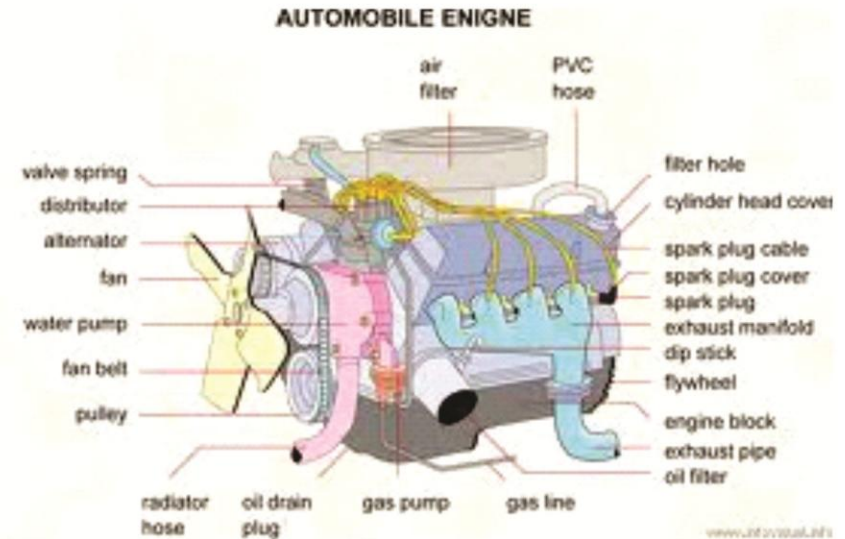


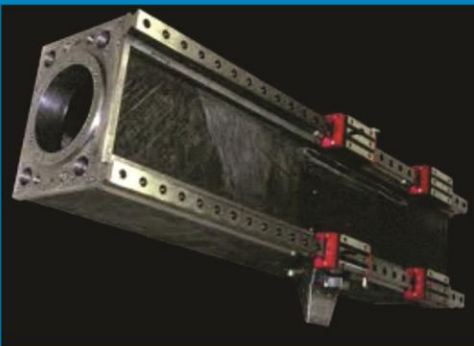
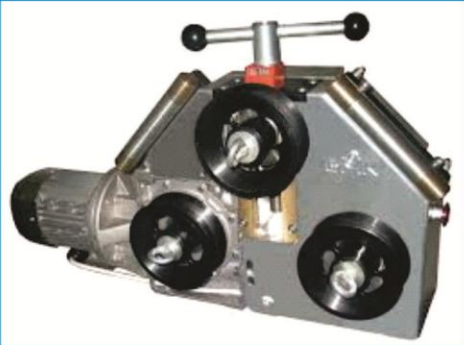
BEFORE PROFESSIONAL STEP





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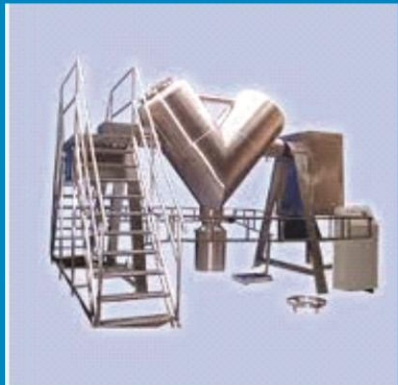
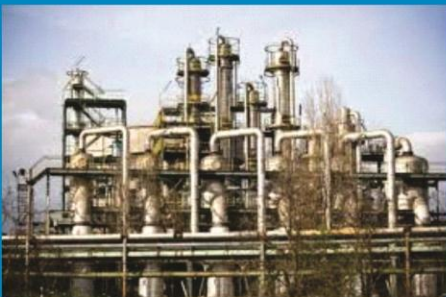
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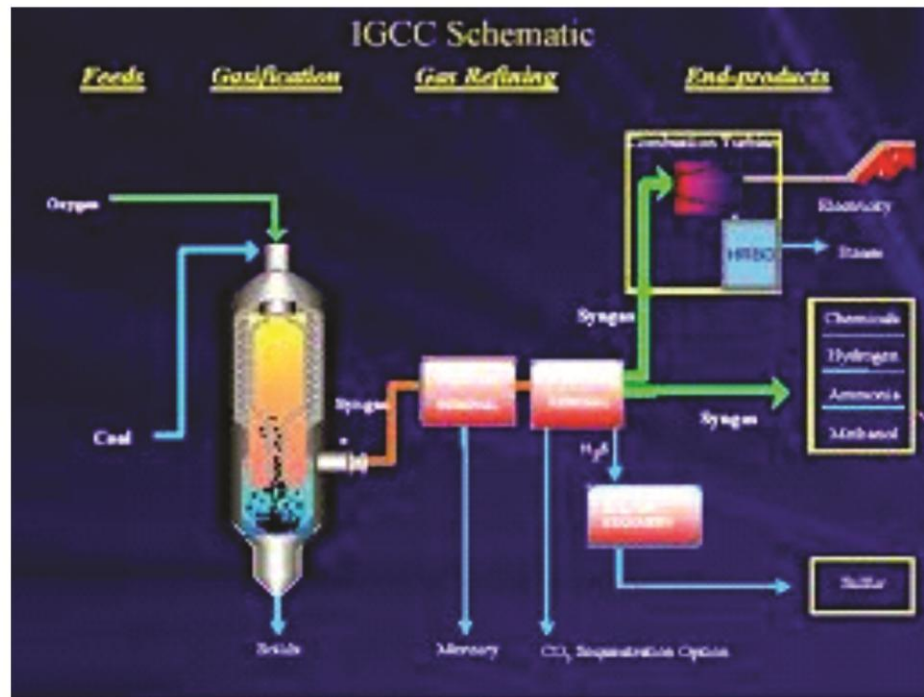


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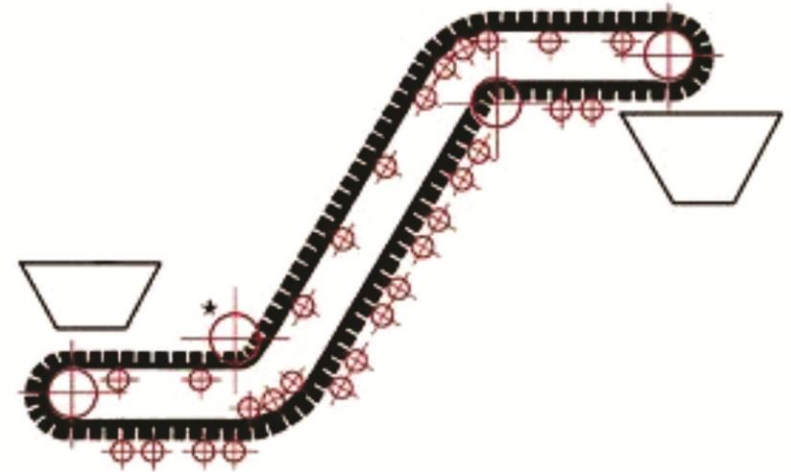


- STRENGTH ANALYSIS
- STABILITY ANALYSIS
- SEISMIC ANALYSIS
- NOZZLE ANALYSIS
- PIPE STRESS ANALYSIS
- THERMAL FLOW ANALYSIS





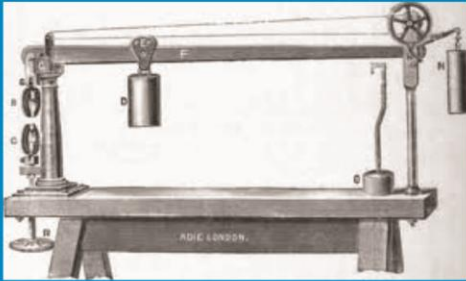
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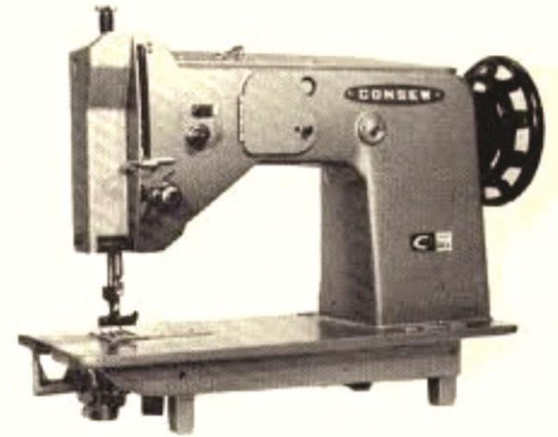


- CAD/CAE/PLM
- SOLUTION & TRAINING
- DESIGN & DEVELOPMENT
- PROJECT/TRAINING @ INSTITUTION



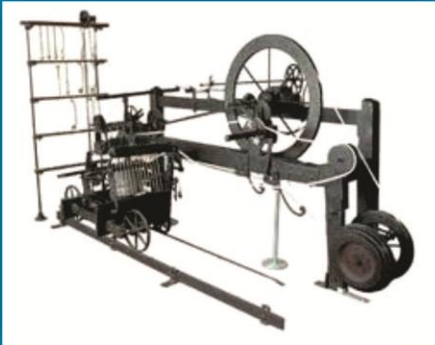


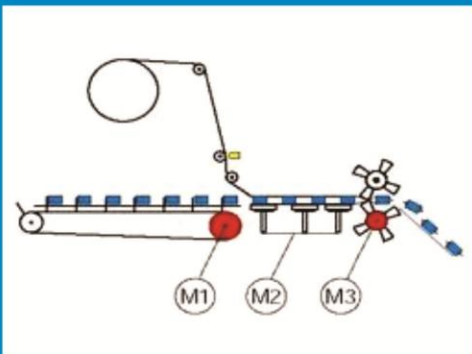
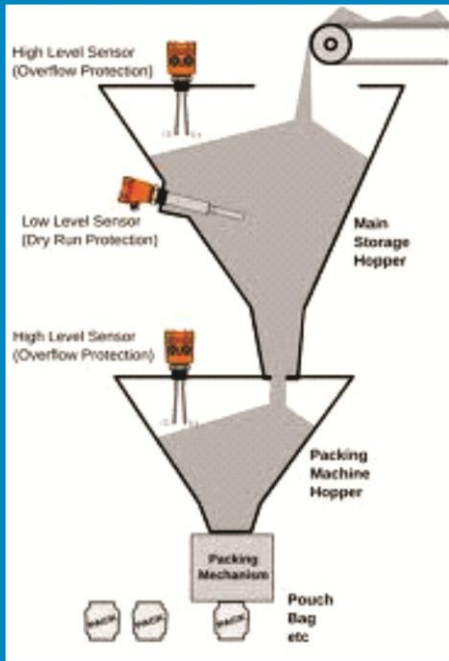
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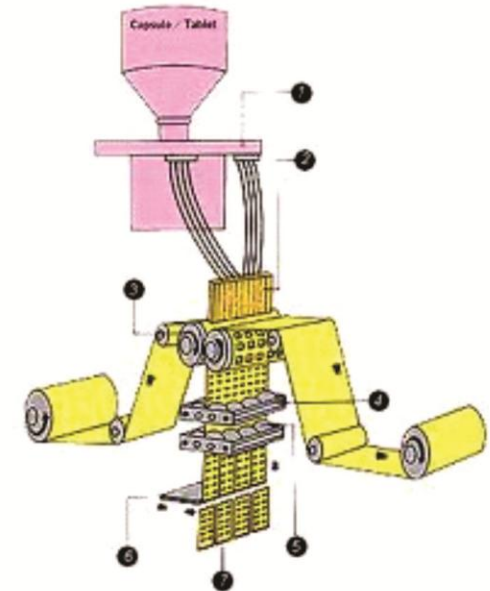


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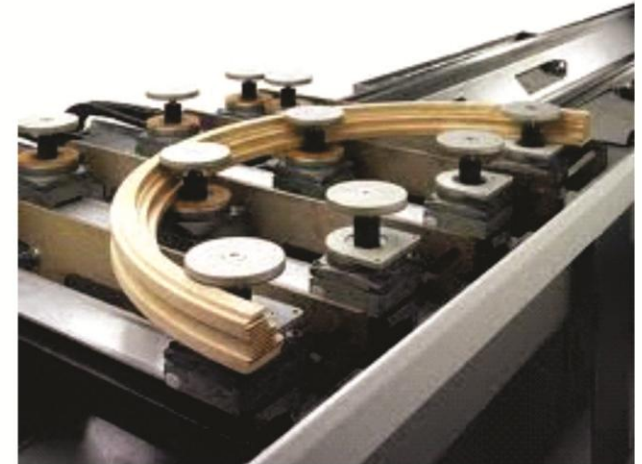


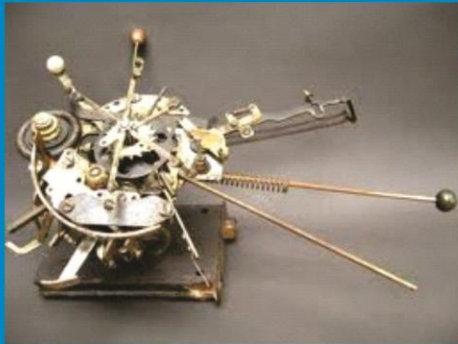
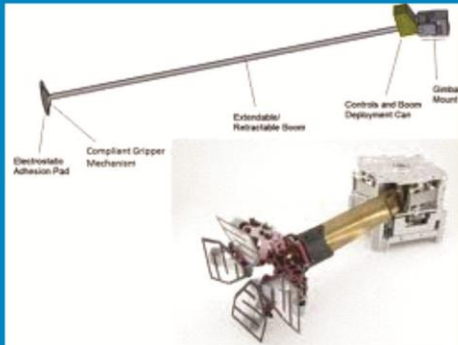
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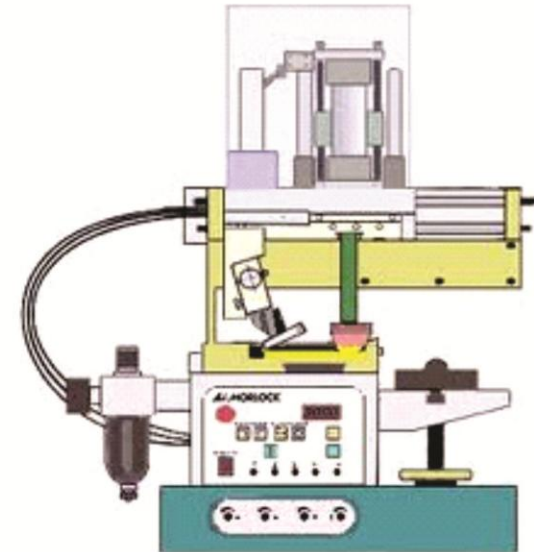


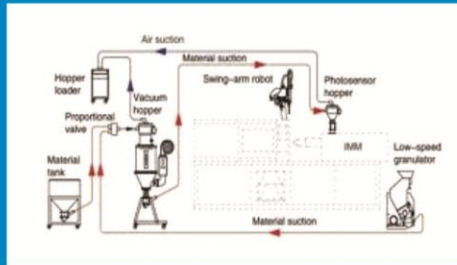
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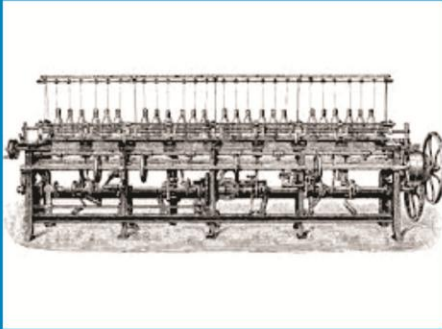


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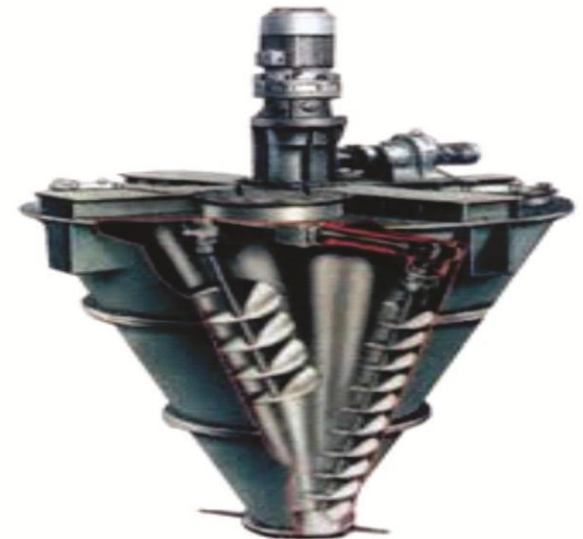




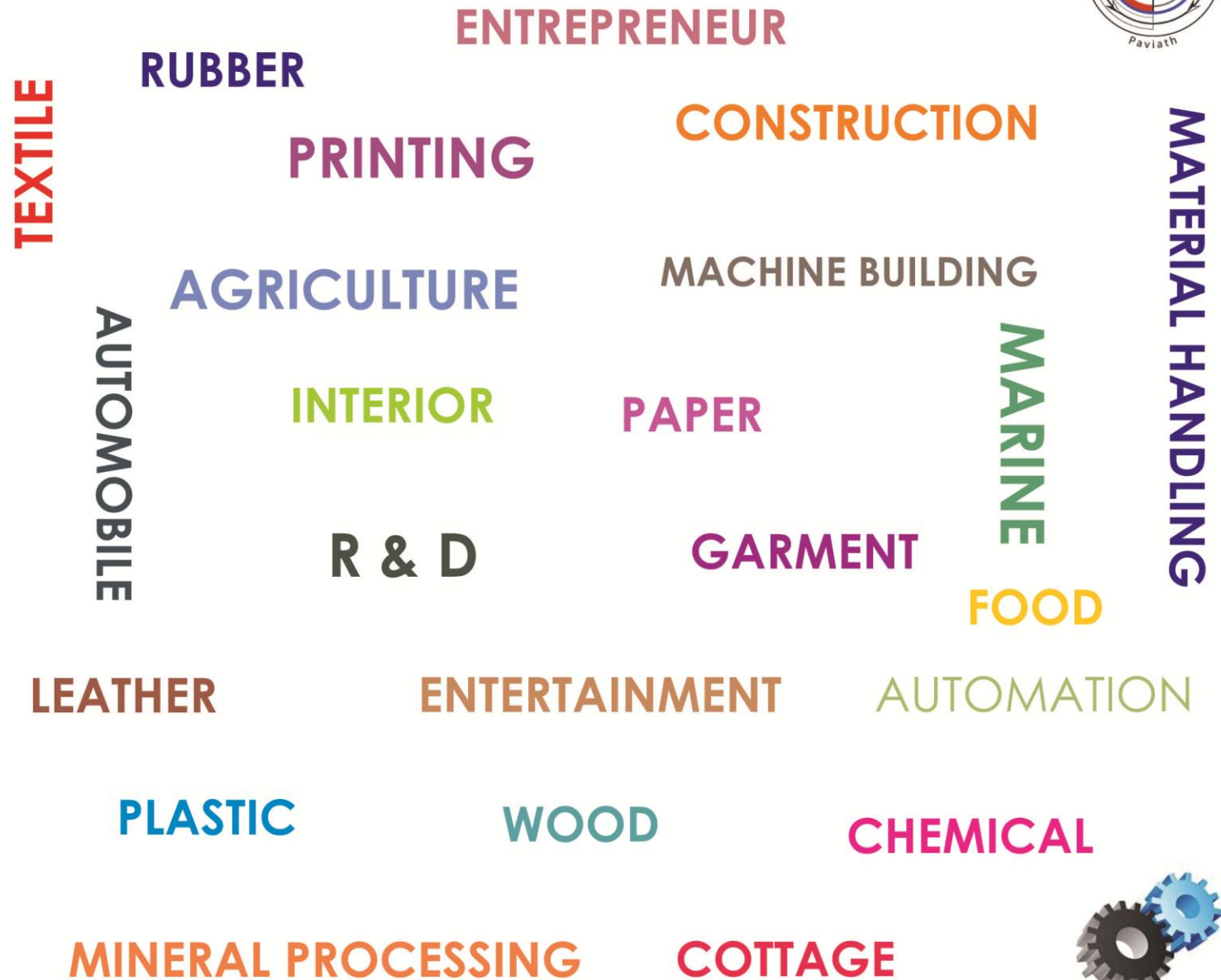
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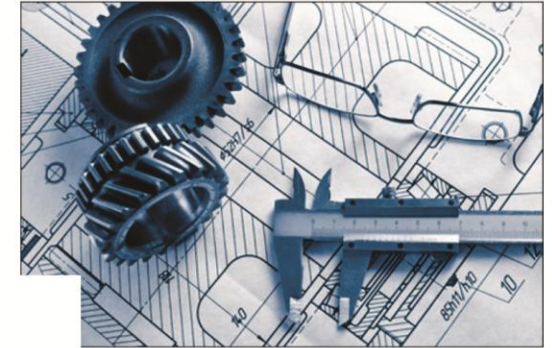


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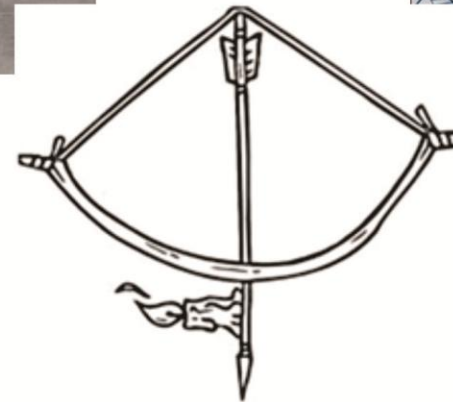


BE ANY INDUSTRY?





CONCEPT

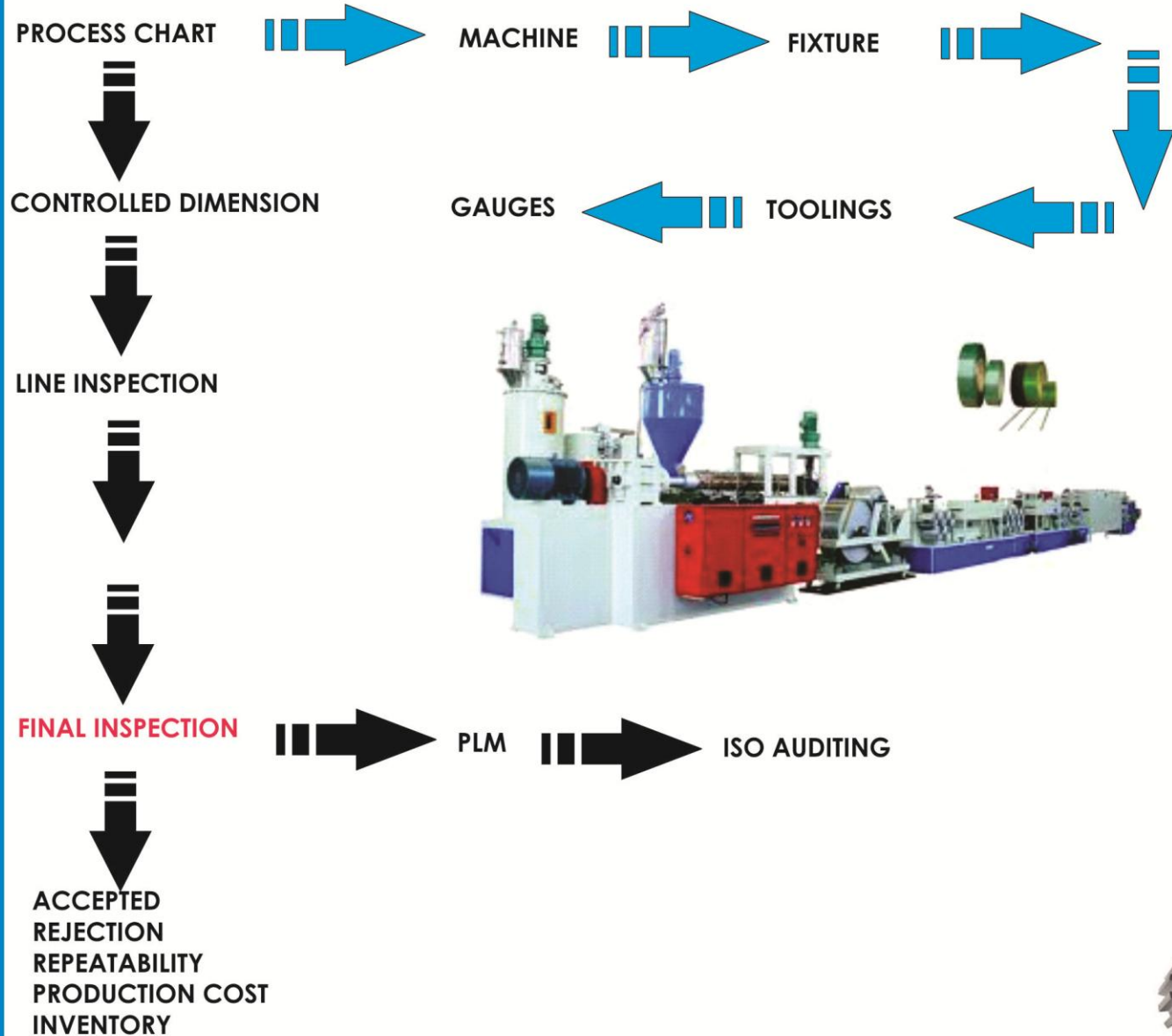


INPUT

KINEMATICS



PRODUCTION





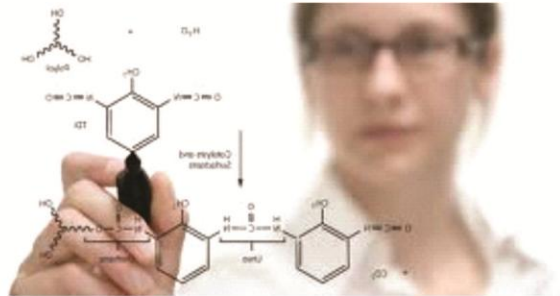
**QUALITY
CONTROL**



**SALES &
SERVICE**



R & D



FAULT DIAGONIZATION

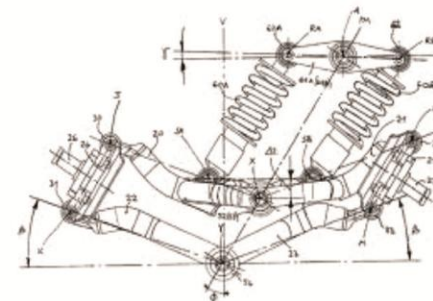
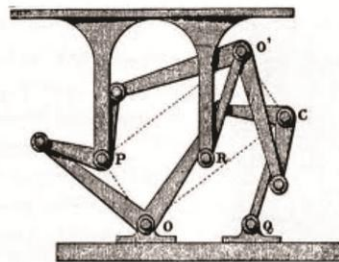
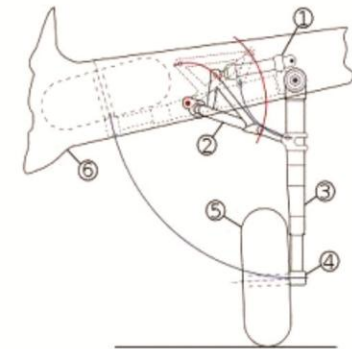
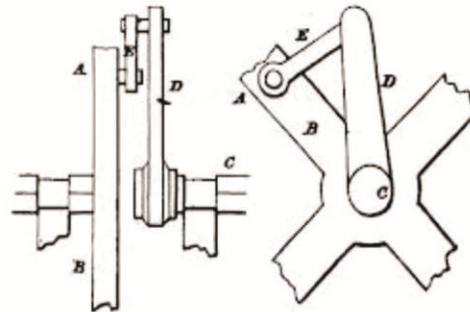
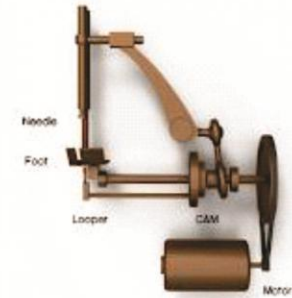
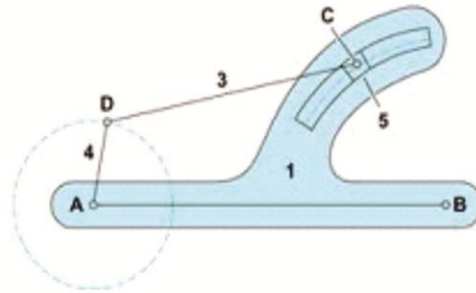


**MAINTENANCE
DEPARTMENT**

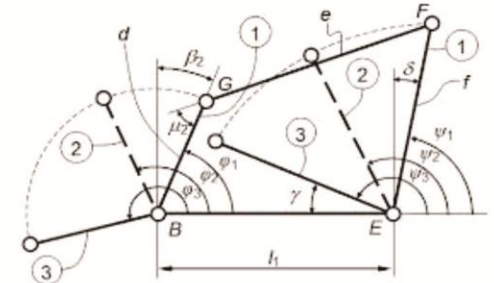
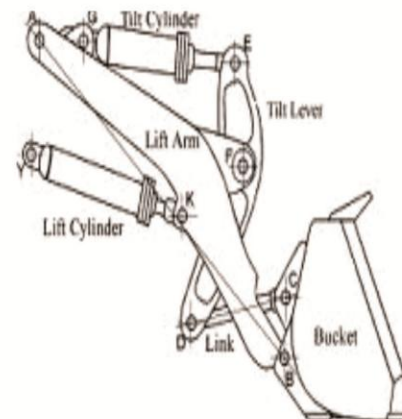
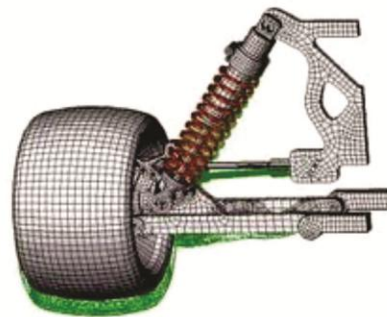
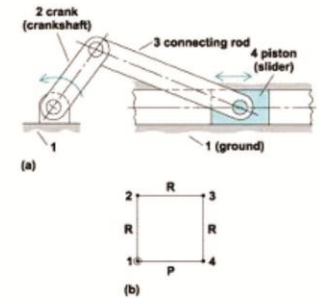
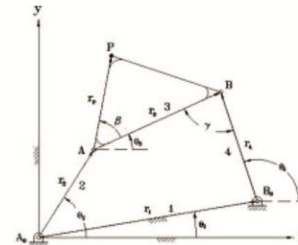
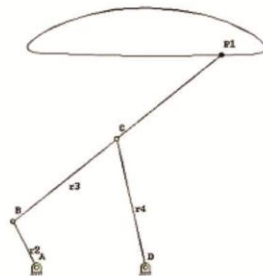


**HIGHER
EDUCATION**

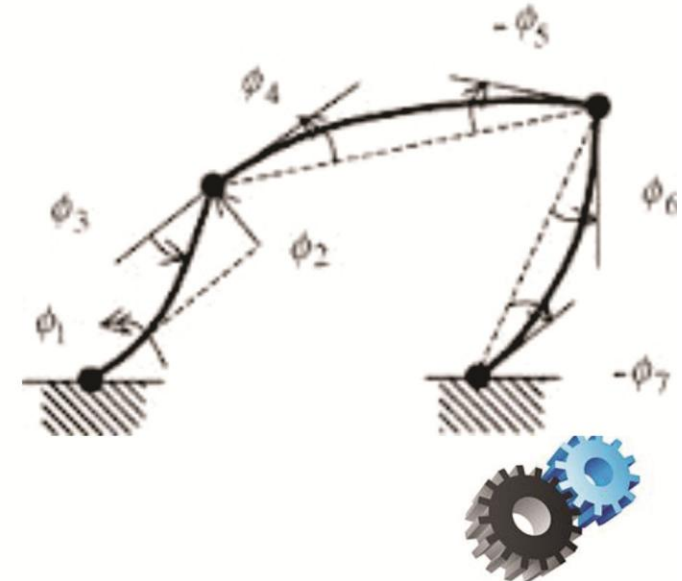
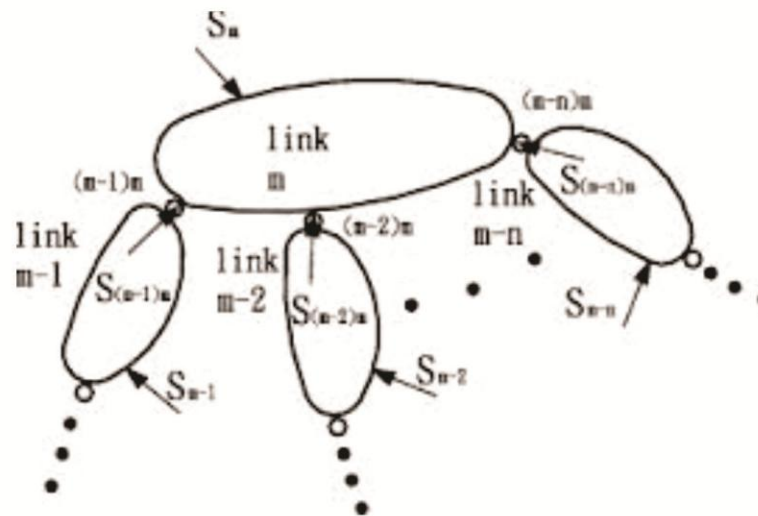
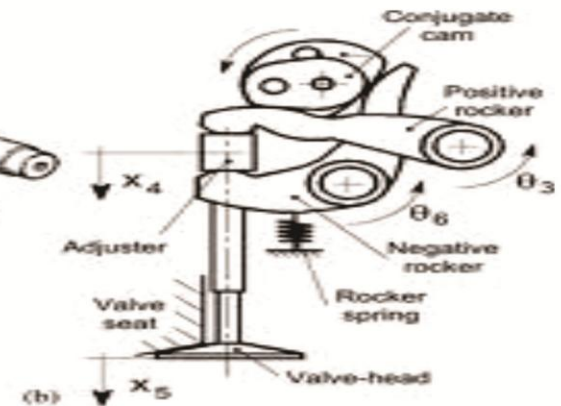
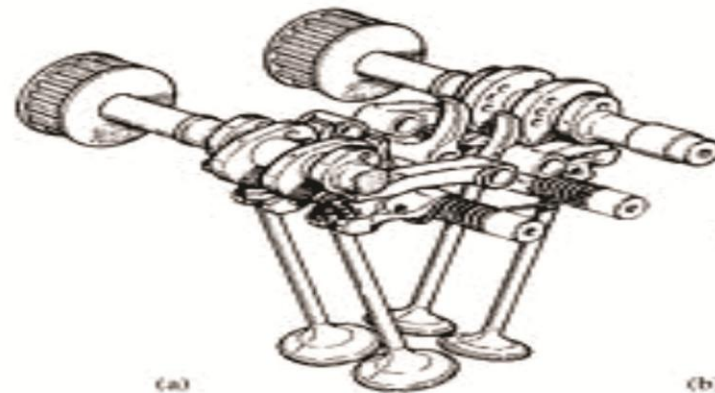




**(DISPLACEMENT/VELOCITY/
ACCELERATION/DIMENSION)**

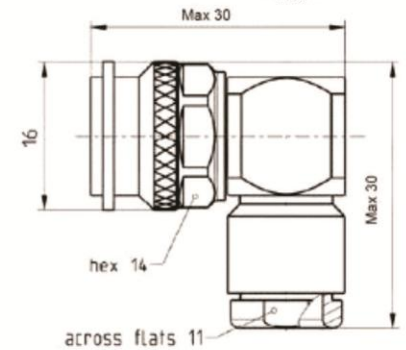
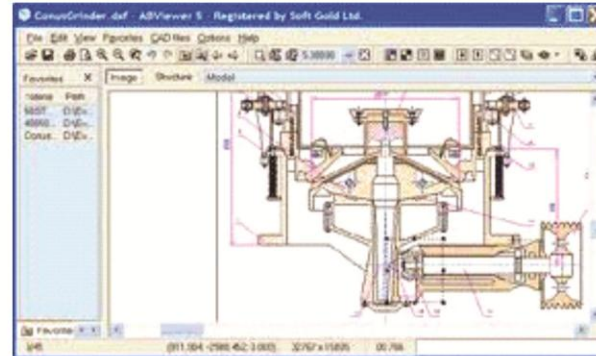
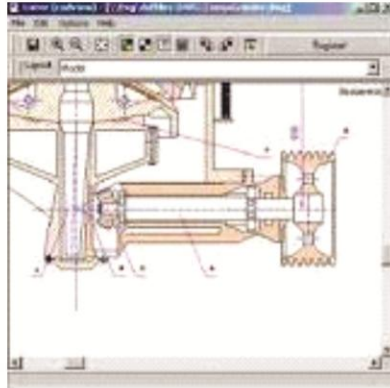


(MASS/M.I/C.G/FORCE/ TORQUE/POWER)

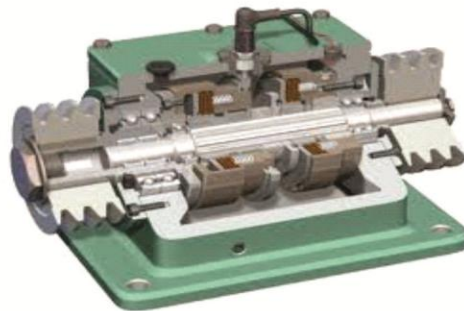




2D



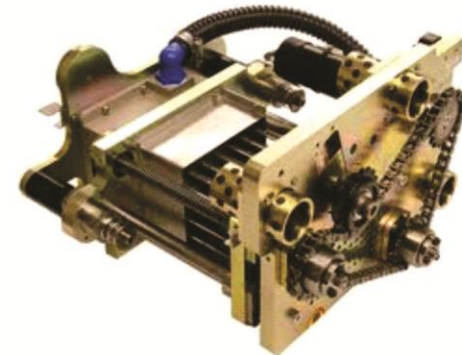
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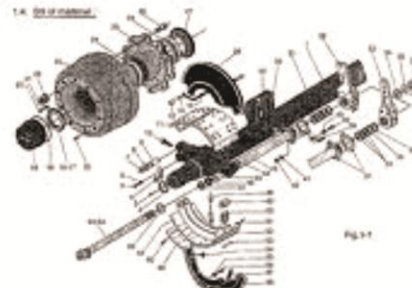
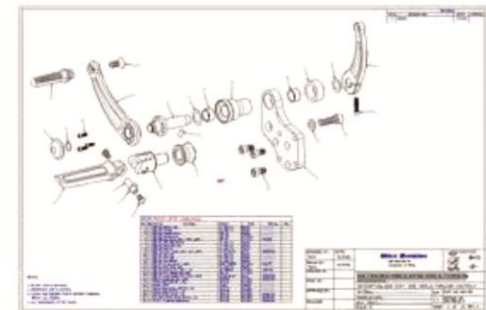
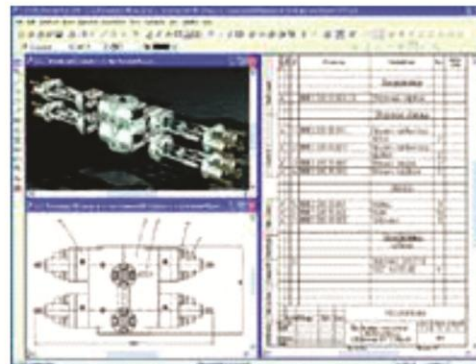
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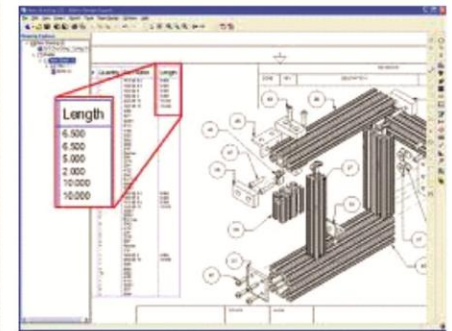
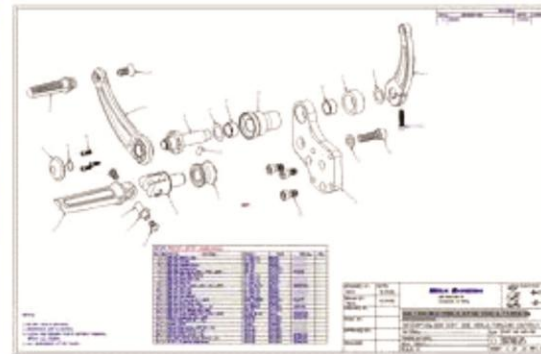
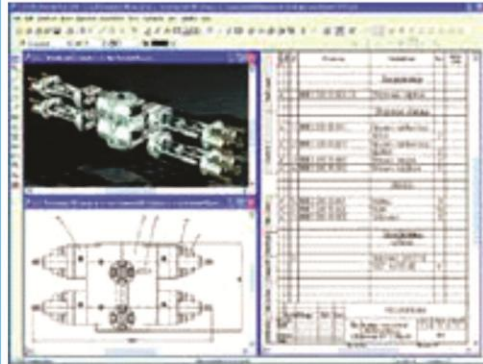
ASSEMBLY



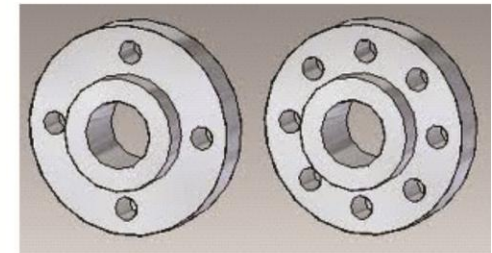
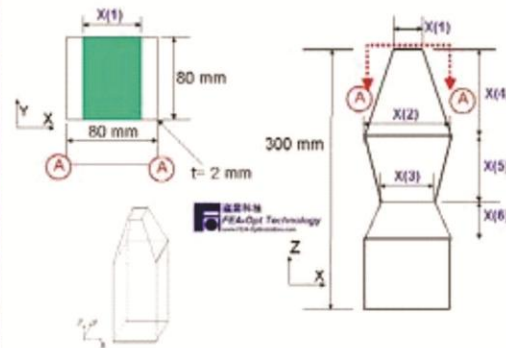
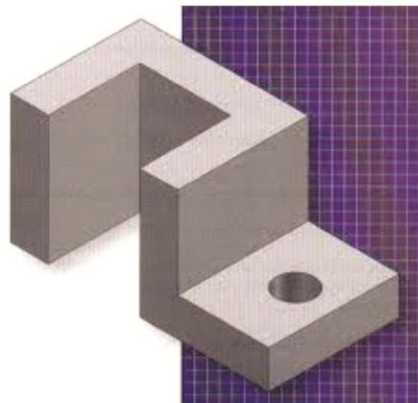
BOM

[illegible]

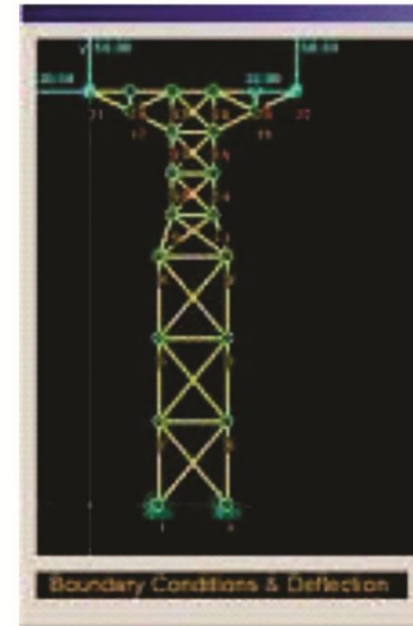
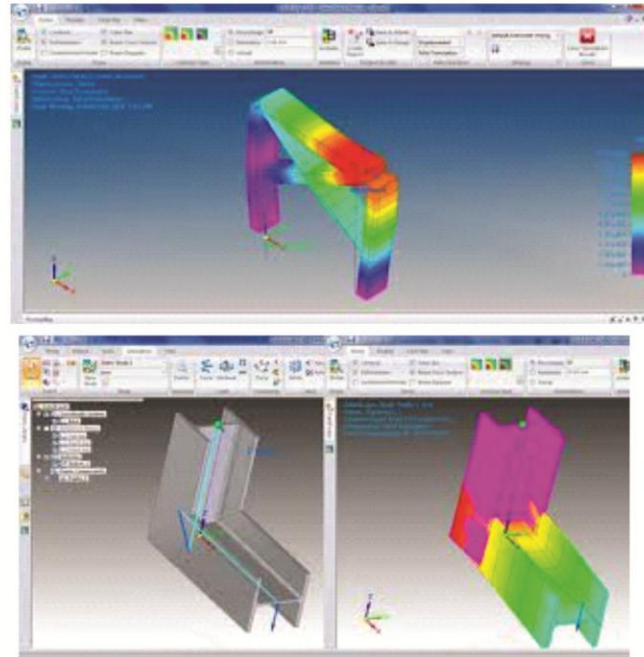
DIMENSION ANALYSIS



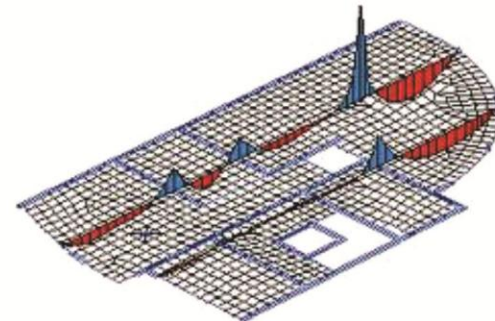
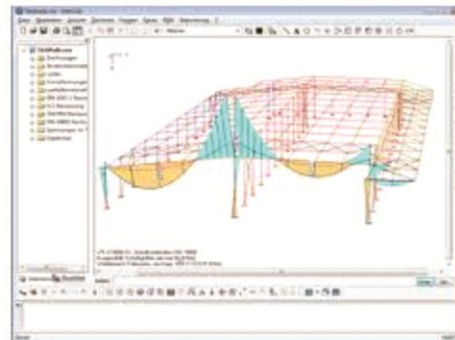
PARAMETRIC



1 DIMENSIONAL ANALYSIS

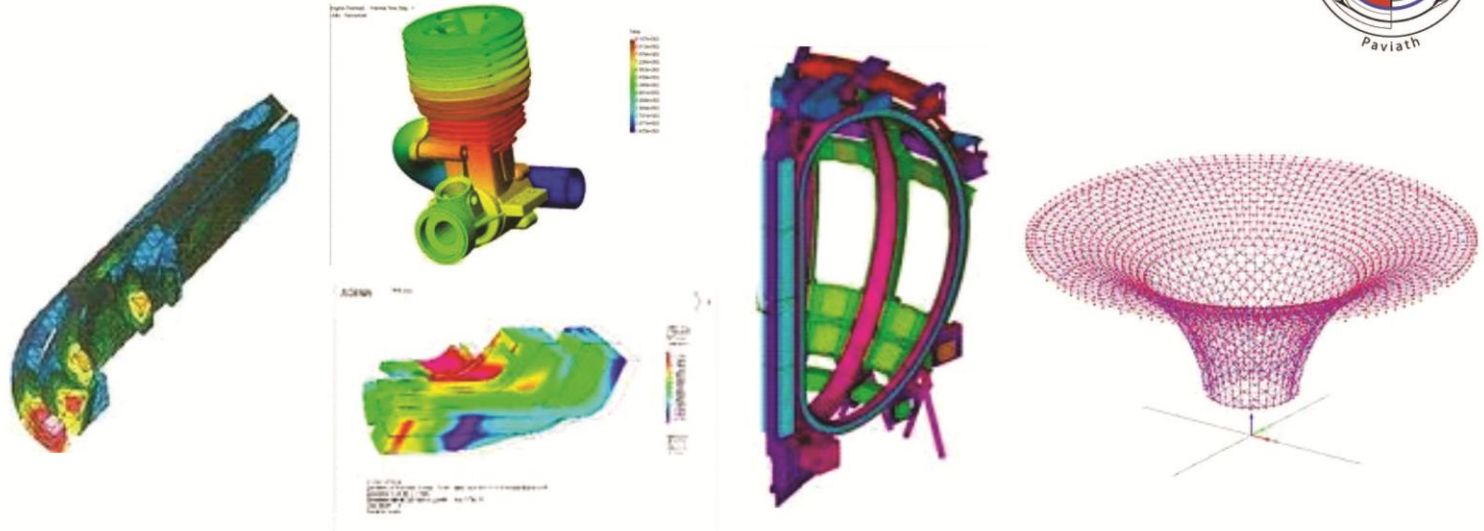


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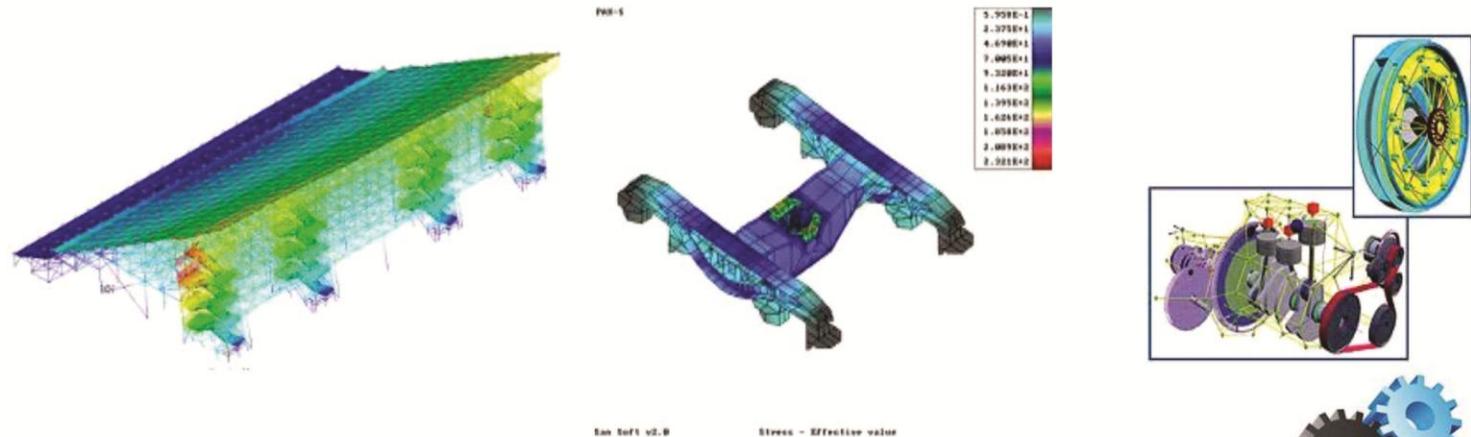




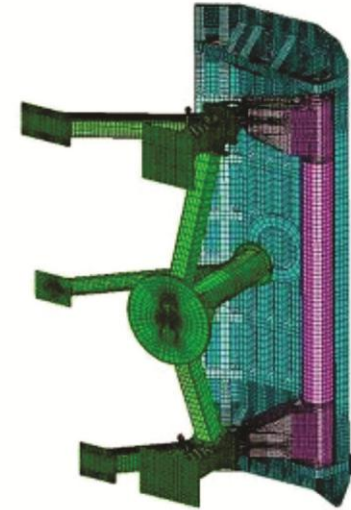
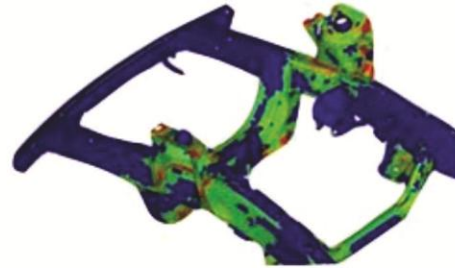
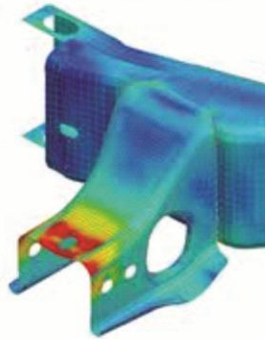
3 DIMENSIONAL ANALYSIS



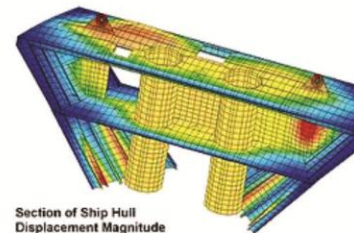
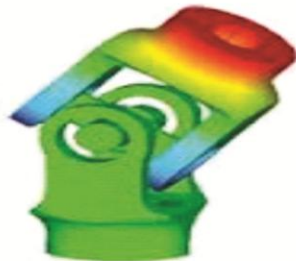
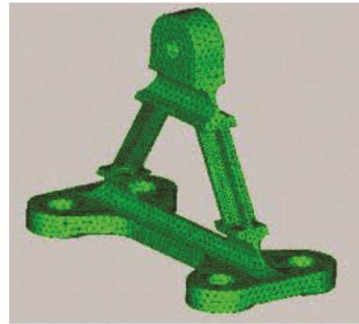
STRUCTURE MODAL ANALYSIS



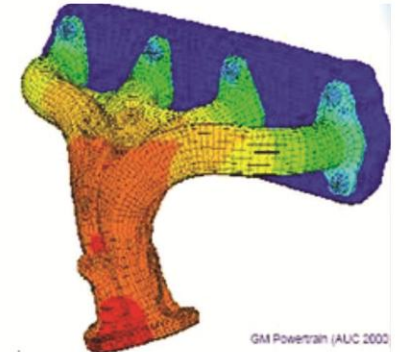
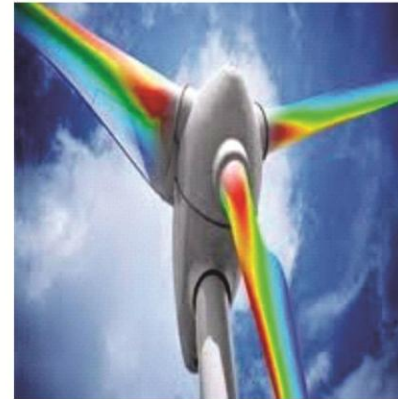
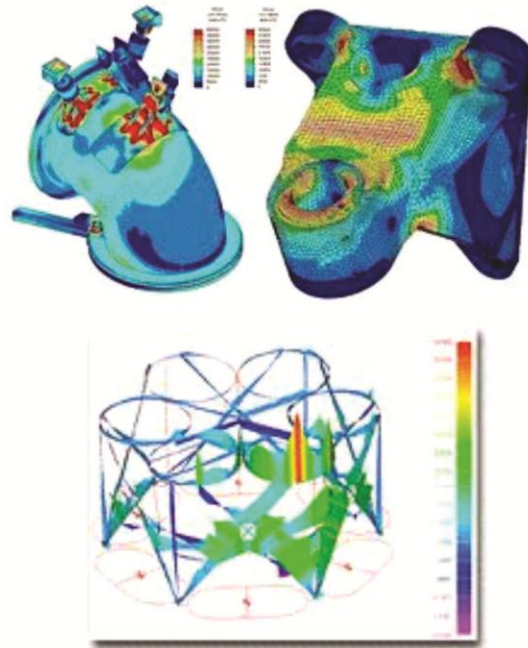
STRUCTURE FATIGUE ANALYSIS



FEA STATIC ANALYSIS



FEA DYNAMIC ANALYSIS



MULTIBODY DYNAMIC ANALYSIS

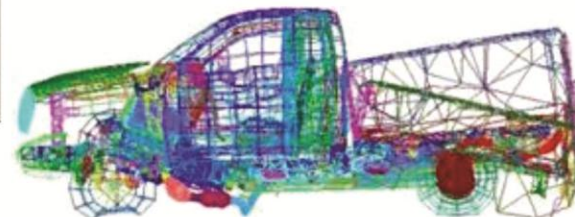
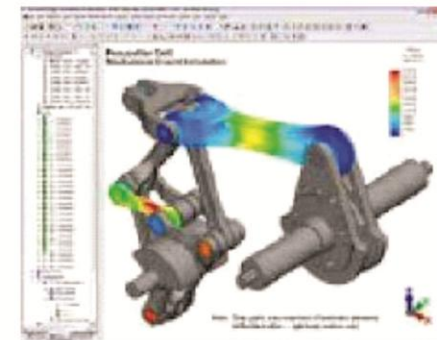
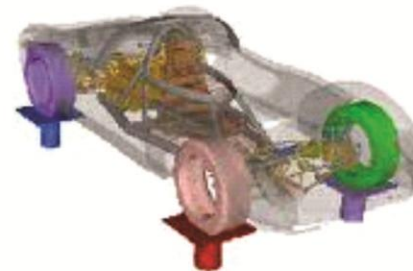
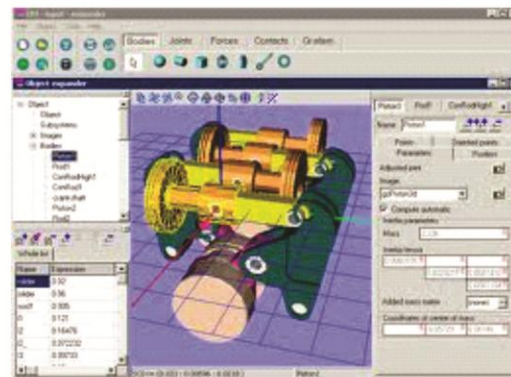
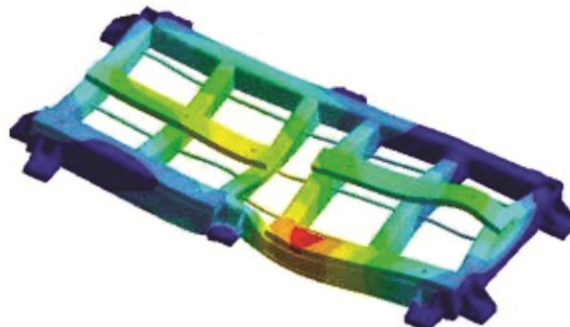
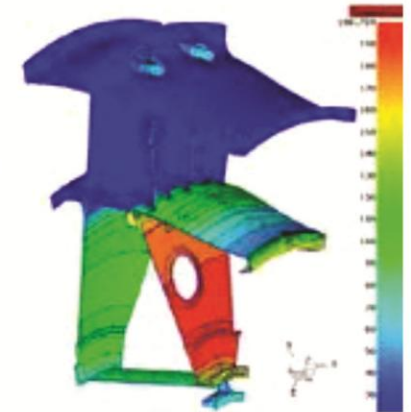
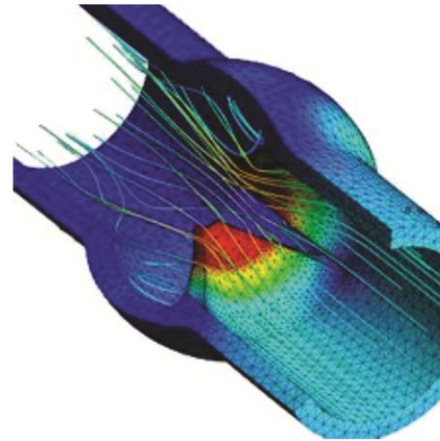
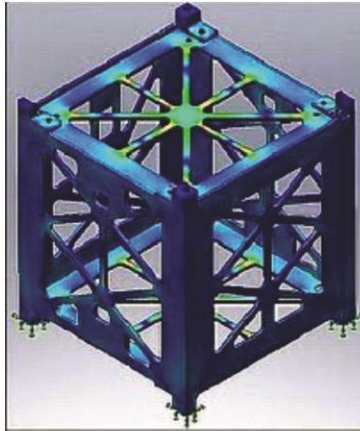


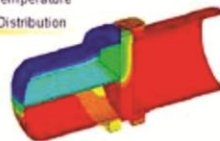
Figure 2. Chassis eigenmode of a pickup at $f=11.2$ Hz.



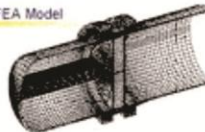
THIS IS A CAPTION FOR THE IMAGE

This analysis calculates temperature and thermal stress distribution around channel of heat exchanger.

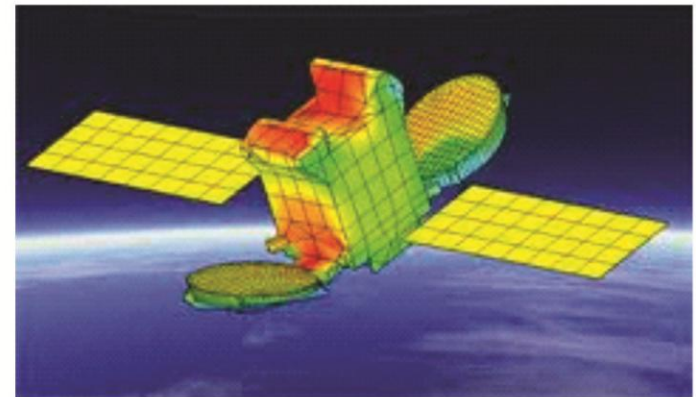
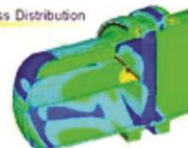
Temperature
Distribution



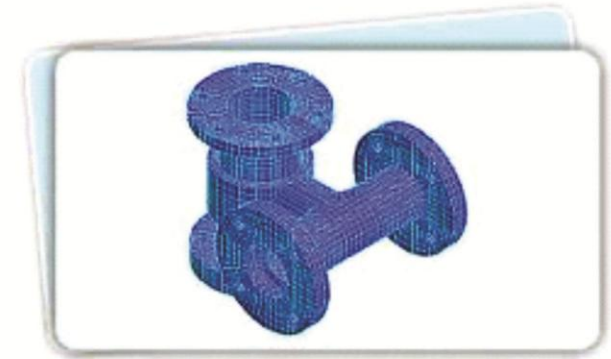
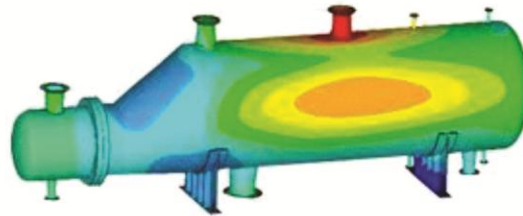
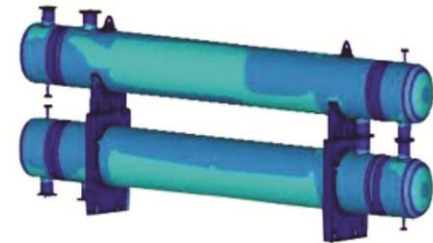
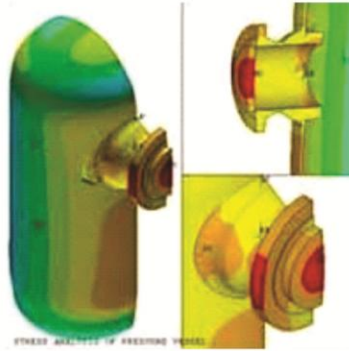
FEA Model



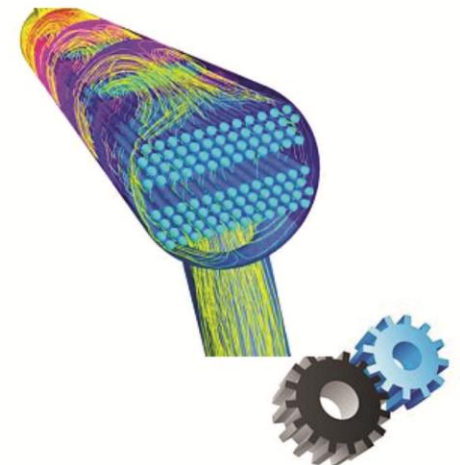
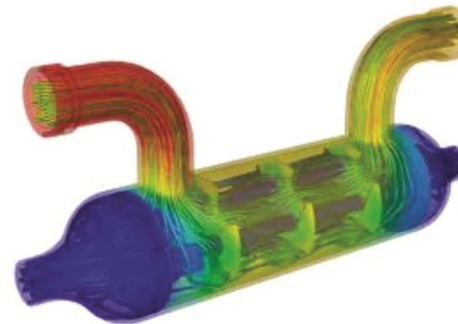
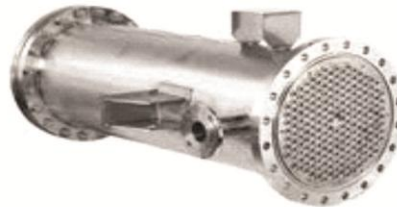
Deformation and
Stress Distribution



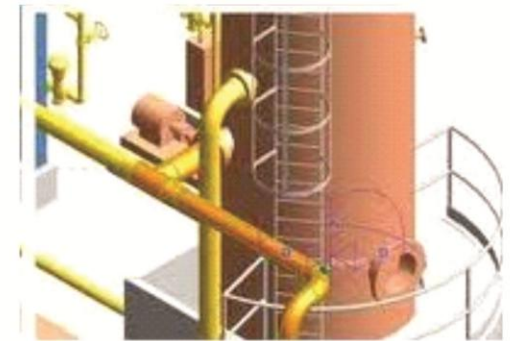
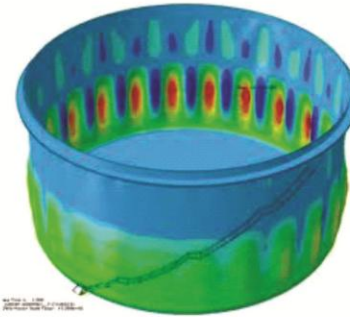
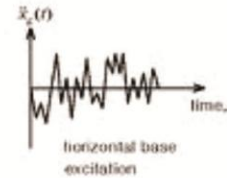
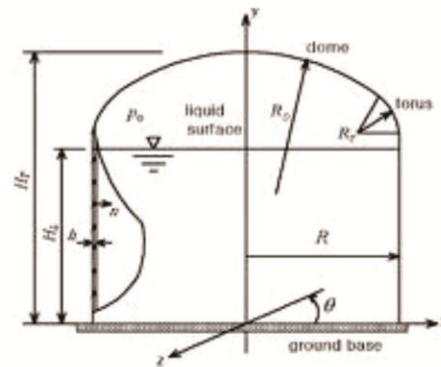
PRESSURE VESSELS



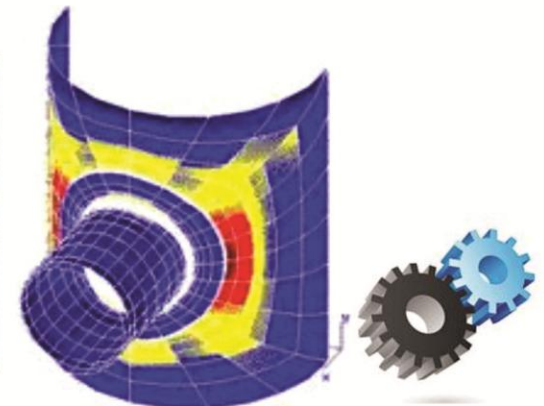
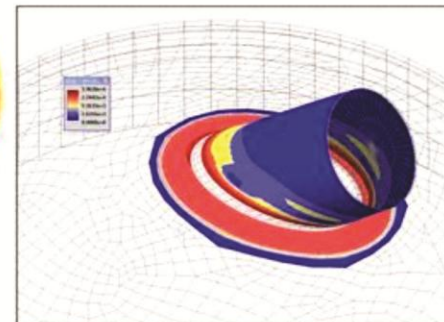
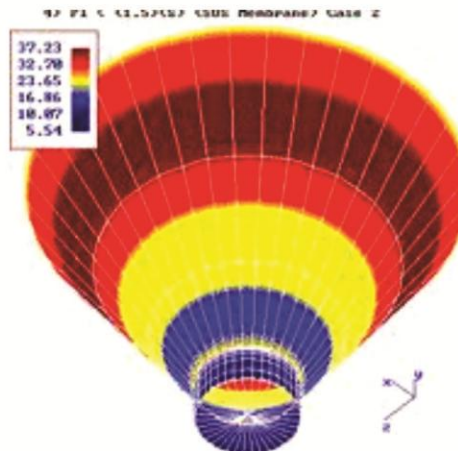
HEAT EXCHANGER

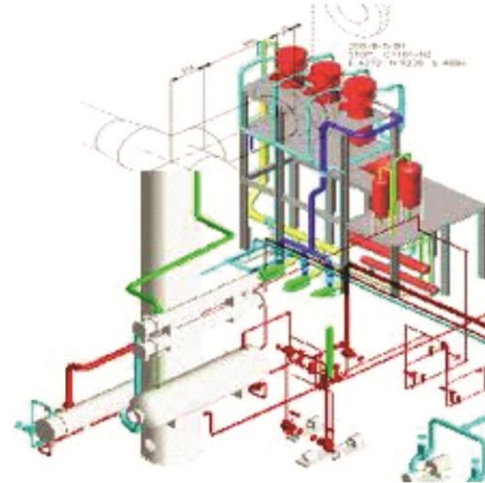
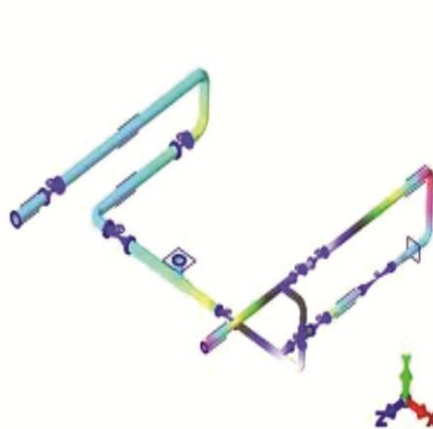
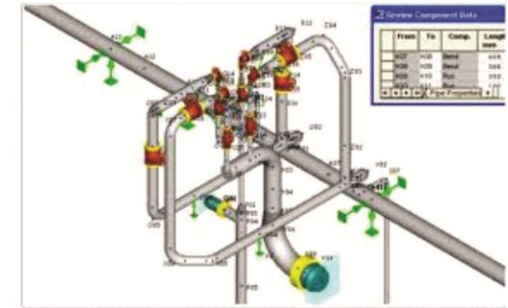
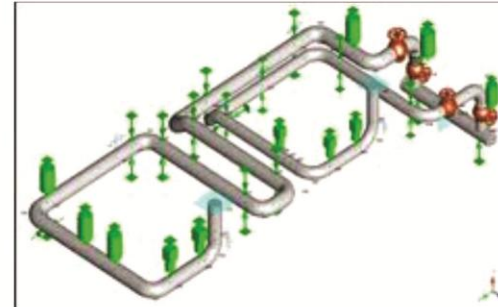


STORAGE TANKS



NOZZLE 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
MECHANISM IN MODERN ENGG. DESIGN	I.I.ARTOBOLEVSKY (VOLUMES)
ADV.MECHANISM DESIGN ANALYSIS & SYNTHESIS	GEORGE N.SANDOOR, ARTHUR G.ERDMAN
DYNAMIC BALANCING OF RECIPROCATING MACHINE	BRAM DEMEULENAERE
MECHANICAL DESIGN DATA BOOK	V.SKONNUR, A.A.MEMON
CAM DESIGN & MANUFACTURING HAND BOOK	ROBERT L.NORTON
MECHANISM & MECHANICAL DEVICES	NEIL SCLATER, N.P.CHIRONICS
DESIGN DATA BOOK	K.MAHADEVAN, DR.K.B.REDDY
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





VARICAD

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

SAM 6.1

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

KOMPAS 3D V13+

- 2D/DATA BASE
- 3D/PDM/BOM
- PART/ASSEMBLY
- 3D PIPING
- ANIMATION
- INTERFERENCE
- PARAMETRIC
- DIMN. ANALYSIS
- 1D ANALYSIS
- 2D ANALYSIS
- 3D ANALYSIS
- MODAL ANALYSIS
- FATIGUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALYSIS
- 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

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
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- FEA DYNAMIC ANALYSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS



VARICAD

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

KOMPAS 3D V13+

- 2D/DATA BASE
- 3D/PDM/BOM
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- 3D PIPING
- ANIMATION
- INTERFERANCE
- PARAMETRIC
- DIMN. ANALYSIS
- 1D ANALYSIS
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- FATIGUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALYSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

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- 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
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- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALYSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS



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
- INTERFERENCE
- PARAMETRIC
- DIMN. ANALYSIS
- 1D ANALYSIS
- 2D ANALYSIS
- 3D ANALYSIS
- MODAL ANALYSIS
- FATIGUE ANALYSIS
- FEA STATIC ANALYSIS
- FEA DYNAMIC ANALYSIS
- THERMAL ANALYSIS
- MULTI BODY DYNAMICS

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- 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
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- ANALYSIS
- ASSEMBLY ANALYSIS
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- THERMAL ANALYSIS
- MULTI BODY DYNAMICS



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
- INTERFERENCE
- PARAMETRIC
- DIMN. ANALYSIS

APM WINMACHINE

- KINEMATIC ANALYSIS
- KINETO-STATIC ANALYSIS
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- MULTI BODY DYNAMICS

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