

PROCESS ENGINEERING, HOUSEHOLD WASTE INCINERATION, WATER AND SLUDGE TREATMENT



TYPES OF SERVICES

- Process support,
- Installation plans (Piping and Instrumentation Diagram) with lists of associated lines,
- Studies and plans for installing material,
- Studies of installations.

TYPES OF WORK

- Guide Plans for civil engineering,
- Guide Plans for structures,
- Guide Plans for mechanically welded machinery,
- Plans for installation of piping,
- Notes for calculating flexibility,
- Studies and plans for pipe supports,
- Isometric designs.

SECTORS

- Household waste incineration unit,
- Sludge incineration unit,
- Complete study of water substations,
- Unit for the treatment of phosphorous,
- Unit for the treatment of smoke,
- Study of steam networks,
- Unit for the treatment of effluent from refineries.

ORGANISATION

- Draft project,
- Costing,
- Process,
- Dimensioning,
- Control,
- Studies,
- Implementing details,
- Ready for manufacture.

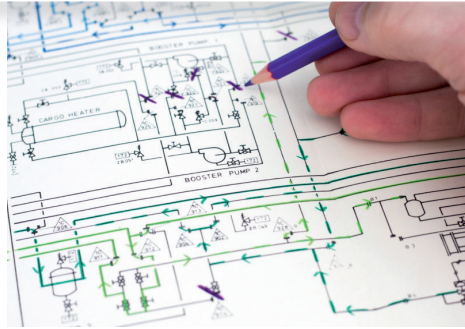
CALCULATION SOFTWARE

- SOLIDWORKS SIMULATION,
- ROBOT,
- ANSYS.

CAD SOFTWARE

- PDMS,
- SOLIDWORKS,
- CATIA V5,
- AUTODESK,
- AUTOCAD,
- CREO (PRO ENGINEER),
- UNIGRAPHICS,
- MICROSTATION.

PROCESS ENGINEERING, SUGAR PRODUCTION INDUSTRIES



TYPES OF SERVICES

- Process support,
- Studies and plans for installing material,
- Preparing detailed drafts as listed below

TYPES OF WORK

- Guide Plans for civil engineering,
- Guide Plans for structures,
- Guide Plans for mechanically welded machinery,
- Plans for installation of piping,
- Notes for calculating flexibility,
- Studies and plans for pipe supports,
- Isometric designs.

SECTORS

- Biotechnology platform,
- Storage unit and placing in containers,
- Alcohol distillation unit,
- Mashing unit, liquefaction and fermentation
- Water storage and pumping unit,
- Evaporation unit,
- Nuclear.

ORGANISATION

- Draft project,
- Costing,
- Process,
- Dimensioning,
- Control,
- Studies,
- Implementing details,
- Ready for manufacture.

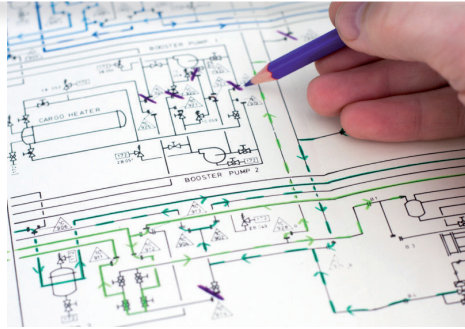
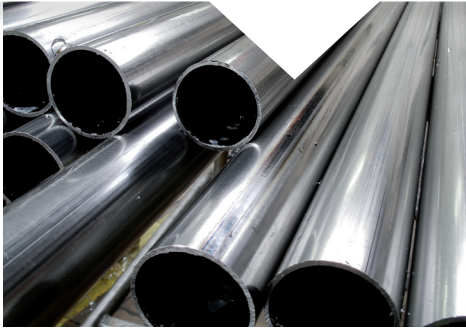
CALCULATION SOFTWARE

- SOLIDWORKS SIMULATION,
- ROBOT,
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CAD SOFTWARE

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CALCULATIONS : SHEET METAL COMPONENTS, FLEXIBILITY OF PIPING, AERAUCLICS AND HEAT



TYPES OF SERVICES

- Permanent and transient thermomechanical analysis,
- Aeraulics, hydraulics and electronics,
- Fluid mechanics and thermal mechanics,
- Fluid coupling / structure,
- Calculation of loss of loads,
- Heat transfers.

TYPES OF WORK

- Pressure equipment,
- Storage tanks and Skids,
- Technical specifications of equipment,
- Determining thicknesses,
- Defining tubing, shells and skirt reinforcements,
- Analysis of flexibility of pipe networks,
- Defining anchoring points and types of support,
- Dynamic and seismic calculations, waterhammer and valve opening calculations.

SECTORS

- Industry,
- Construction.

SOFTWARE

- SOLIDWORKS SIMULATION,
- ANSYS,
- CAESAR,
- PIPESTRESS.

CODES APPLIED

MECHANICALLY WELDED COMPONENTS

- CODAP2005,
- ASME,
- TUV,
- ADM,
- TEMA,
- SPVC SVBD,
- RVTO.

PIPING

Static :

- ANSI,
- CODETI,
- ASME,
- RCC-M.

Tubing flexibility :

- HEI,
- NEMA,
- API,
- WRC107,
- WRC297.