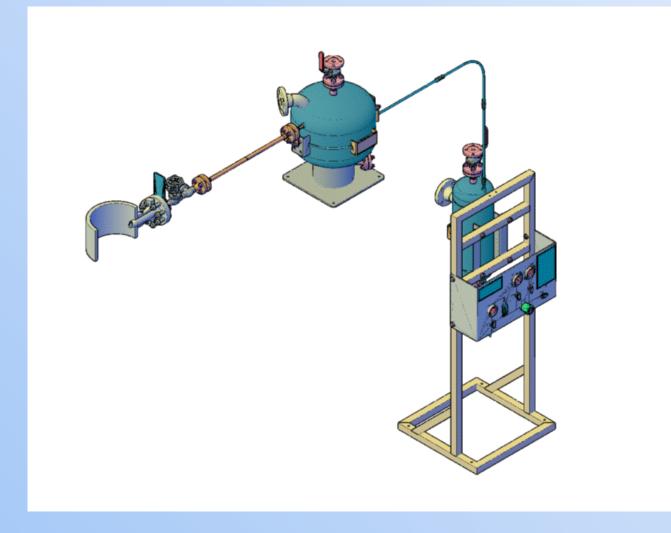


# SAMPLING SYSTEMS FITTING THE CUSTOMER NEEDS

## VINCI TECHNOLOGIES MANUFACTURES SINCE 1993 SAMPLING SYSTEMS FITTING THE CUSTOMER NEEDS



Sampling units are used in refineries, chemical and petrochemical industry to control the process and confirm the unit operation.

### VINCI TECHNOLOGIES

## **GENERAL**

An oil refinery is an industrial process plant, where crude oil is processed and refined into useful petroleum products.

The reasons that refineries sample are various:

- Confirm unit operation (Quality control and custody transfer between units and customers
- Environmental control and compliance
- Process control (catalyst, heat exchanger, unit performance)
- ✤ Waste water treatment loading

### **CHALLENGES WITH SAMPLING UNITS**

The sample must be representative of the process. In order to design a sampling unit, special attention is taken to following points:

- Sample Viscosity
- Carry over
- Sample port / valve plugging
- Temperature during and after sample
- Obtaining a representative sample from a line with high process temperature and pressure / vacuum
- Often requires special materials of construction (hastelloy, titanium, AL6XN, etc)
- Numerous sampling points require "closed" sampling to eliminate operator exposure to hazardous conditions

#### **MAIN ADVANTAGES OF THE VINCI'S SAMPLING UNITS**

- Energy autonomous: Explosion-proof compliance
- Simple, safe and reliable
- Elimination of human error
- Environmental safety
- Easy operation and low maintenance
- Sample is representative of the process
- Clean and eliminates spills
- Wide variety of materials of construction available to comply with process
- Ability to offer closed sampling solutions when required