

PRECISION COMPONENTS PUMPS AND VALVES



WALLCOLMONOY
PRECISION COMPONENTS

CAST AND MACHINED COMPONENTS FOR PUMP AND VALVE MANUFACTURE

Wall Colmonoy's engineered pump and valve components are used extensively in high-pressure flow-control applications due to their efficiency, robust durability and long-term wear.

Based in Wales, Wall Colmonoy Limited (UK) has a state-of-the-art foundry and machining facility that produces castings, heat treatment and full component manufacture - all from one source.

Developed to maximise operational efficiency, Wall Colmonoy's pump and valve components have been specially formulated with Colmonoy® (nickel) or Wallex® (cobalt) superalloys to withstand corrosion, abrasion and impact in high temperature, high pressure, chemical environments.



**Mixer / Crusher
Component Assembly
for the Dairy Industry**

Multiple industries rely on Wall Colmonoy's pumps and valves for a variety of applications:

- Agriculture
- Chemical
- Construction
- Food and Beverage Processing
- Hydro
- Heavy Industry
- Mining
- Nuclear
- Oil and Gas/Petroleum
- Power Generation
- Pharmaceuticals
- Renewables and Energy
- Steel

The technical and engineering teams at Wall Colmonoy design and develop manufacturing methods to optimise quality, utilising knowledge amassed over 85 years and verified with digital twinning.

PUMPS

Designed to withstand corrosive environments from chemicals and fluids such as salt water, carbon dioxide, gasoline and hydrofluoric acid, Wall Colmonoy's high pressure, high temperature pump components perform with durability and reliability in the most challenging of fluid management applications.

Parts include: Reciprocating Pumps, Turbine Rotor Pumps, Inducers, High Pressure Pumps, Slurry Pumps, Mixing Pumps, Chemical Pumps, Artificial Lift Pumps, Magnetic and Non Magnetic Sleeves, Wear Rings, Pump Gears and Casings.



High Pressure Pump



Turbine Rotor



Pump Gear



Reciprocating Pump

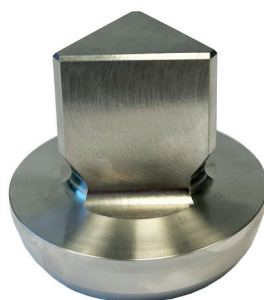
VALVES

Wall Colmonoy's expertise in Wallex® cobalt-based superalloys, results in high quality valves that promote improved thermal stability and resistance against abrasion, corrosion, condensation, detonation, cavitation, oxidation and impact.

Parts include: Gate Valves, Ball Valves, Regulator and Choke Valves, Rotary Control Valves, Plug Valves, Butterfly Valves, Flow Cages, Metering Valves, Microgap Valves, Homogeniser Valves and Stem Valves.



Metering Valve



Homogeniser Valves



Microgap Valve

EXPERTLY ENGINEERED COMPONENTS

Our expert engineers will select the optimum alloy and casting technique to suit your specific needs.

Components are either cast from air or vacuum melted alloys made via investment, centrifugal, sand or hot isostatic pressing techniques. Machining facilities include CNC turning, CNC milling, CNC grinding, lapping, honing and EDM wire cutting.

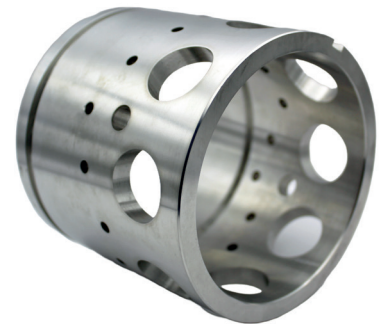
Wall Colmonoy has a commitment to high quality manufacturing. With its on-site technical centre comprising of an advanced materials laboratory, non-destructive testing facility and metrology department, it offers certification to national and internationally recognised assurance standards such as ISO 9001. Each engineered component goes through reassuringly stringent inspections at each stage of the process, so our parts are finished consistently to tight precise tolerances.



Pump Inducer
Investment Cast -
Wallex® 6 for the
Nuclear Industry



Impeller
Investment Cast -
Colmonoy® 625
(Inconel 625)



Flow Cage Valve
Investment Cast
and Machined -
Wallex® 6 for the
Oil & Gas Industry



WALLCOLMONOY

Wall Colmonoy. Making Metals Work Harder Since 1938.

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