

In mechanical separating technology separators and decanters form part of the group of sedimentation or decanting centrifuges. They serve to concentrate solids, clarify suspensions and separate mixtures of fluids while simultaneously eliminating solid particles.

There is a great variety of possible applications for separators and decanters, as well as the products which are clarified, separated, concentrated and extracted using such equipment.

Depending on the medium and the field of application, highly specific materials with warranted properties and stringent testing on the basis of clients' specifications and codes are required.

**We manufacture to**

- Drawings (premachined and final machined condition)
- Supply regulations
- Codes and standards

**as**

- Open-die forgings
- Seamless forged and rolled rings
- Forged discs
- Shaped, upset shafts or bars

**from**

- Highly refined heats of special steels
- Stainless steels
- Nickel and nickel-based alloys
- Titanium and titanium alloys
- Cobalt alloys
- Zirconium

**e.g.**

- With special heat treatment
- Fully tested and certified.

# Höverstahl – Separators and Centrifuges

Material	No.	Alloy type	Properties	Application
Coracid 304 L Coracid 316 L Coracid 316 Ti	1.4306 1.4404 1.4571	X 2 CrNi 19.11 X 2 CrNiMo 17.12.2 X 6 CrNiMoTi 17.12.2	Austenitic Cr-Ni-Mo steels with high corrosion resistance and very good mechanical properties.	Apparatus and vessel construction in the chemical industry as well as the food, drink and tobacco industry, fat and soap industry, textile, cellulose and dyeing industry, nuclear industry, marine engineering, off-gas detoxifying.
Coracid 904 L Coracid 254 SMO	1.4539 1.4547	X 1 NiCrMoCu 25.20.5 X 1 CrNiMoCuN 20.18.7	Super austenites with very good chlorine resistance, excellent resistance to sulphuric acid solutions thanks to copper content.	Phosphorus and sulphuric acid manufacture and processing, petrochemical industry, acetic acid and artificial fertiliser production, pharmaceuticals, seawater desalination.
Coracid 16-5	1.4418	X 4 CrNiMo 16.5.1	Chrome-molybdenum steel with good corrosion behaviour combined with high strength and toughness down to -60°C.	Pump, valve and compressor manufacture, turbines in hydroelectric works, cryogenics, ship construction.
Coracid-D-22.05 Coracid-D-24.5.3.A1 Coracid-D-24.5.3.A2	1.4462 1.4462-A1 1.4462-A2	X 2 CrNiMoN 22.5.3 X 2 CrNiMoN 24-5.3 X 2 CrNiMoN 24.5.3	Duplex materials with high resistance to wear, low sensitivity to stress corrosion cracking, resistant to intercrystalline corrosion.	Separators, compressors, components in the chemical industry, flue gas desulphurisation, oil and natural gas industries, pump construction, seawater desalination, paper industry.
Coracid Super-D-25.07 Coracid Super-D-100	(UNS 32750) 1.4501	X 3 CrNiMoN 25.7.4 X 2 CrNiMoCuN 25.7.4	Super-duplex materials with highest corrosion resistance and good mechanical properties. Excellent resistance to stress corrosion cracking (SCC), vibration cracking, pitting, gap and erosion corrosion.	
Coralloy 825	2.4858	NiCr 21 Mo	Full austenitic nickel-chromium alloy with Mo and Cu, good resistance to oxidising acids.	Phosphorus and sulphuric acid plants, heat exchangers, offshore rigs, oil and gas production, nuclear industry.
Coralloy C 4	2.4610	NiMo 16 Cr 16 Ti	Highly corrosion-resistant nickel-based alloy with Mo, Cr and reduced C-content.	Chemical vessel construction where high resistance is required, flue gas desulphurisation.
Coralloy CP Ti-2	3.7035	Pure titanium	Most usual pure titanium variant.	Chemical vessels, motor racing, separators
Coralloy Ti-6-4	3.7164	TiAl 6 V 4	Most usual alloyed titanium material.	Centrifuges, turbines (compressor)
Coralloy Ti-6.6.2	3.7174	TiAl 6 V 6 Sn 2	As above, but with improved mechanical properties.	Jet engines (compressors), offshore rigs

## We can offer you further materials and variants on request

\*) Standard trade designations of: General Electric, Cabot, Haynes, Special Metals, Teledyne, Inco Group, VDM Nickel Technology, Republic Steel, IMI, United Technologies, Carpenter