

# Forgings

Columbia Metals has partnered with Forgia Rapida to provide you with specialised Steel Forgings.

Both Columbia Metals – one of Europe's largest stockholders of non-ferrous alloys – and Forgia Rapida – offering quality specialised steel forgings with fast turnaround – were founded in the same year: 1961. Each has decades of experience in serving Engineering with high quality products, delivered anywhere in the world, exactly when needed.

For Columbia Metals' full alloy range including Copper, Nickel, Titanium and Stainless alloys please see our Stock List insert or visit our website.

Aluminium alloys are also available on demand.

**Forgia Rapida is based in Bologna, Italy and specialises in making Steel Forgings with fast delivery.**

Its dedication to producing forgings quickly, with a strict adherence to quality control has meant blue chip customers and small machine shops alike rely on Forgia Rapida for all their Steel Forging requirements.

Partnered with Columbia Metals, you can be assured of receiving faultless forgings, technical assistance and back up service; as you would expect when buying your non-ferrous alloys.

**The Forgia Rapida plant:**

2 hydraulic presses; 1,200 tons and 1,500 tons  
2 rolling rings; 80 tons and 50 tons with 1250mm OD max. and 900mm ID max.  
1 forging hammer; 1,000kg  
3 manipulators; up to 10,000kg  
Heat treatment department with electrical and gas furnaces for lengths up to 4,500mm



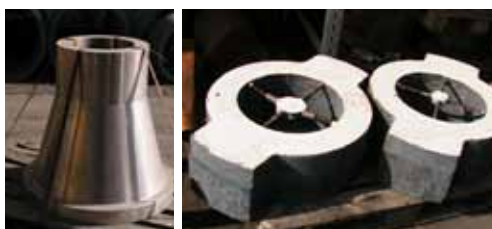
**Commonly available steels from Forgia Rapida:**

Carbon steel  
Medium alloy steel for hardening and tempering or cementation  
High alloy steel  
ESR steel  
Stainless steel; 300 and 400 series  
Duplex  
Superduplex



Forgia Rapida serves the Power Generation and Oil industries as well as for the Mechanical, Food and Medical sectors.

Forgia Rapida serves several sectors and has developed significant expertise in the Energy and Oil industries.



#### Typical forging capability for the Energy sector:

Centrifugal Compressors and Gas Turbines

- Impellers from OD Ø 200mm to OD Ø 900mm
- Shafts up to OD Ø 350mm; max. 3,000kg, max. length 4,000mm
- Hollows
- Diaphragms
- Casing and half casing; max. 3,000kg
- Coupling flanges; circular and elliptical

#### Alternative Compressors

- Piston rods; max 1,500kg, max. length 4,000mm
- Crossheads
- Supports

#### Most commonly used steels

ASTM A182 F22 / AISI 410 / AISI 420 / AISI 430 / 17-4PH / 15-5PH / Z4CN16.04 / 40NICRMO7 / 42CRMO4

#### Typical forging capability for the Oil industry:

Valves and Pipe Connecting Pieces

- Rings; Ø max 1,250mm, height max. 320mm
- Flanges
- Valves
- Hollow bars
- Adapters
- Seats

#### Oil Platform

- Pinions and Gears
- Rings

#### Most commonly used steels

AISI 410 / AISI 4130 / AISI 4140 / ASTM A182 F22 / F6NM / AISI 304L / AISI 316L / DUPLEX / SUPERDUPLEX

When purchasing from Forgia Rapida you can be assured you're in safe hands. Forgia Rapida has ISO 9001:2000 certification and is also qualified by authorities such as Lloyds Register, RINA, ABS, Bureau Veritas and CERMET. Their metallurgical, technical and quality knowledge accumulated since 1961 ensures all queries are answered quickly in-house. And with every order monitored by Columbia Metals in the UK, you can have absolute confidence in your quality forging being delivered to you on time, every time.

Contact us now for a competitive forging quote.



Columbia Metals supplies Worldwide.

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