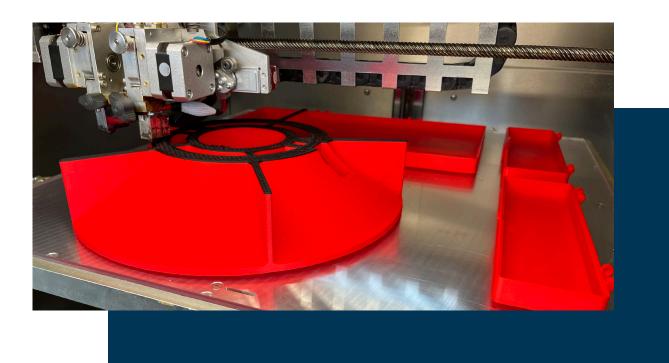
Additive Manufacturing for Industry



Activities and services

- Prototyping
- Tooling
- Pre-production and production parts
- Technical parts
- Complex parts

Sectors of activity

- Goods industry
- Steel industry
- Public markets
- Food industry
- Petrochemicals
- Chemicals
- Pharmaceutics
- Naval
- Aerospace
- Quarry

Know-how

- Studies, expertise, audits
- 3D FDM printing 3D modelling and simulation
- CAD
- 3D model recovery
- Redesign and optimisation
- Polymer control
- Maintenance



johncockerill.com/services



Hardware resources

- OMNID 3D 500 Lite (print volume 460x460x600) SIMPLIFY 3D
- FUSION 360
- RAISE 3D Pro 3 (print volume 300x300x300)

Human resources

- Business managers
- Technicians specialising in additive manufacturing Project managers

Structural resources

- Printing centre
- Showroom

Materials available	Properties
PLA, PLA food contact, PLA Tough, fluorescent, wood-filled, stone-filled	Prototyping, low mechanical resistance, very good appearance and finish (t ^o max before deformation 60°C)
PET, PETG 32, PETG food contact, PETG-CF, PETG – HD	Compatibility with food, agri-food, mechanical parts not subjected to temperature (max. t ^o before deformation approx. 80 / 90°C).
TPU (flexible) hardness > 85 shore A, TPU MD FLEX (bio-compatible), TPC, TPU 4D (outdoor)	Flexible operational parts, seals, plugs, protection, safety, housings, prostheses, guides, etc.
ABS, ABS ESD (non-conductive), ASA (UV resistant), ABS-CF, ABS FR (flame retardant)	Functional parts as for plastic injection moulding, mechanical parts, casings, large thin-walled parts, fairings, protective casings, etc. (max. t° before deformation approx. 100 / 110°C)
Polyamides PA6, PA12, CFPA-12 (carbon filled), PA6 FR (flame retardant), PA6-FG (glass fibre filled), PA6 ESD	Operational finished parts, abrasion resistant, high mechanical strength, temperature resistant (up to 180°C), resistant to chemical attack (solvents, hydrocarbures).
PP (polypropylene) PP-CF (carbon filled), PP-FG (glass fibre filled)	Material flexibility and memory effect, fatigue resistance, food and food contact
Thermec Zed	Resistant to high-temperature chemical attack.
INOX 316L	(requires post-treatment) metallic, corrosion-resistant, food-grade, can be machined after printing
HIPS (breakable), soluble PVA	(compatible with PLA, TPU, PETG), ODS 20 soluble (compatible with ABS, PA, PP)

Contact

services.impression3d@johncockerill.com