



Corporate Group Introduction



SPACE MIND

Company profile

NPC (New Production Concept S.r.l.) is an Italian company based in Imola (BO) founded in 2002 and leader in the sector of integration and assembly of electro-mechanical groups.

NPC is part of a large corporate group composed by the companies CURTI Spa and ECOR Spa

- Design and production of space systems
- Mechanical manufacturing for aeronautic, space and high-end application
- Production, assembly and test of complete electromechanical groups
- Support on product industrialization

Parent Companies
>10 subsidiaries

CORPORATE
GROUP

HEADCOUNT
Total Employees:
500-700

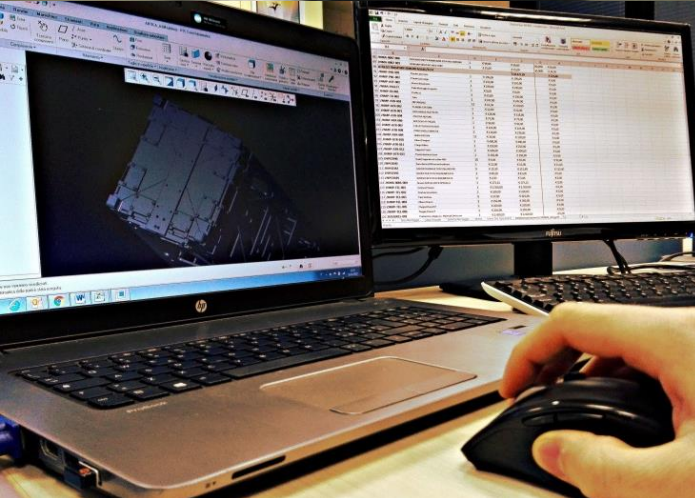
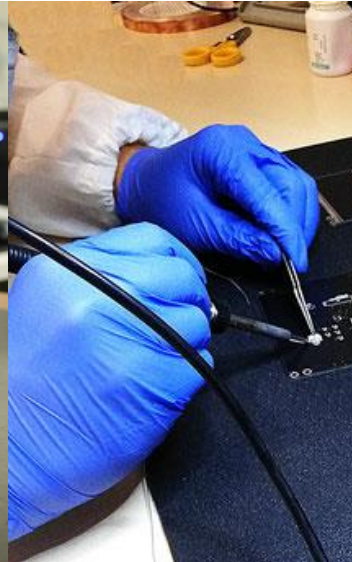
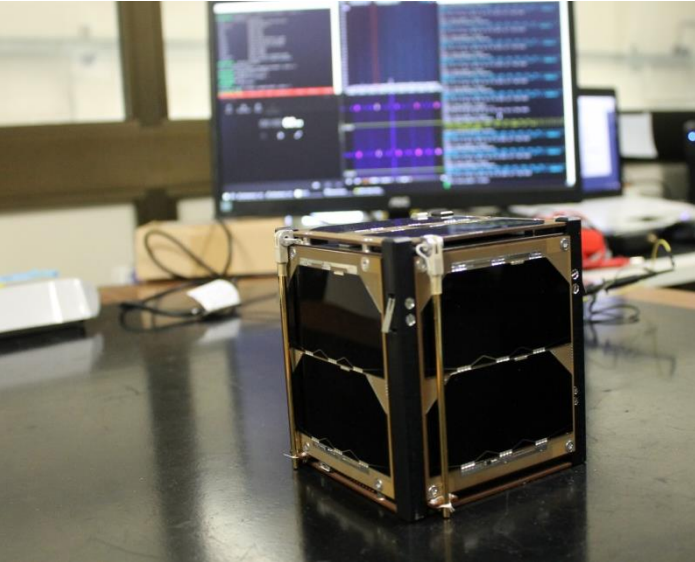
TURNOVER (2018)
Total Turnover:
>150 Million €

Assembly and engineering



Production Phase	Technology
Design	Concept design
	Analysis - PDR
	Detailed design
	Validation - CDR
Production Plan	Manufacturing Plan
	Management Plan
	QA/PA Plan
Manufacturing	Production Plan
	Precision manufacturing
	Finishing
Assembly	Quality Controls
	Warehouse management
	Mechanical Assembly
	Cabling and software installation
Test	In-process quality controls
	Validation tests
	Functional tests
Delivery and installation	Relevant environment test
	Ground support equipment
	Shipping status monitoring

Space Systems



Production Phase	Technology
Space system design	Satellite structures
	Deployable systems
	Solar Panels
	Environmental testing
	Mission design
Satellite MGSE	Nanosatellite testing equipment
	Ground support equipment
	Satellite manipulation tools
Ground system	Large telescope ALTAZ mount
	Tracking platform
	Pointing system
Deorbiting devices	EOL Space system
	SSA Ground system

Precision manufacturing



Manufacturing Phase	Technology
Preparation (Pre-Worked)	Cut
	Welding
	Forming
	Heat treatment of aluminium alloys
Precision Machining	C.N.C. machining
	Grinding
	Milling
	Lathe machining
Finishing	Degreasing
	De-scaling (acid, titanium)
	Passivation of the stainless steels
	Deburring and polishing
Pre-Assembly	Industrial washing
	Drilling
	Laser Marking
	Cleaning
Sub-Assembly	Mechanical subassembly
	Measuring
	Greasing
	Mechanical Assembly
Main-Assembly	Lifting
	Measuring
	Cabling
	Labelling
Test	Cleaning
	Measuring
	Inspection

Precision manufacturing



Manufacturing Phase	Technology
Welding	Portable plasma cut
	Plasma cut
	Welding robot
	MIG / MAG welding device
	Pulsed MIG welding device
	Aluminium TIG welding device
	TIG welding device
	Inverter TIG welding device
Sheet Metal Working	Inverter electric spot welder
	Three-phase electric spot welder
	Mechanical press
	Hydraulic press
	Bending presses
	Guillotine shears
	Roller leveler
	Motorized deforming machine
Machining	Electric spot welder
	5 axis milling centre
	Horizontal spindle work centre
	Horizontal spindle work centre (fixed bench)
Tooling	Vertical work centre
	CNC. lathe
	Parallel c.n.c. lathe
	Parallel lathes
	Vertical spindle work centre
	Vertical milling machines
	Grinding machine tangential for surfaces)
Surface Treatments	Surface finishing centre
	Shot peening machine
	Dry with filtering systems
	Degreasing (with solvent, alkaline, ultrasound)
	De-scaling (acid, titanium)
	Chromatising aluminium
	Passivation of the stainless steels
	Surface finishing centre
	Shot peening machine