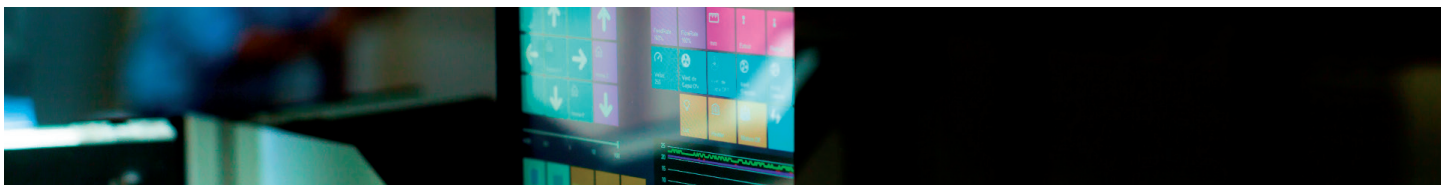




SMART 3D PRINTER
JCR 1000 Single
JCR 1000 Dual

Smart printers designed for industry

Efficiency from the first moment.
Automatically correcting errors in the file
and verifying the print configuration,
reducing time and production costs.



Automatic Check

Function that allows you to verify and automatically repair the STL file prior to printing. Provides you with a report of the error such as holes in the design and automatically repairs it. This software is integrated in the printer and is valid for files of less than 100MB. A function is available in the JCR Edit Software for larger files.

Face Tester

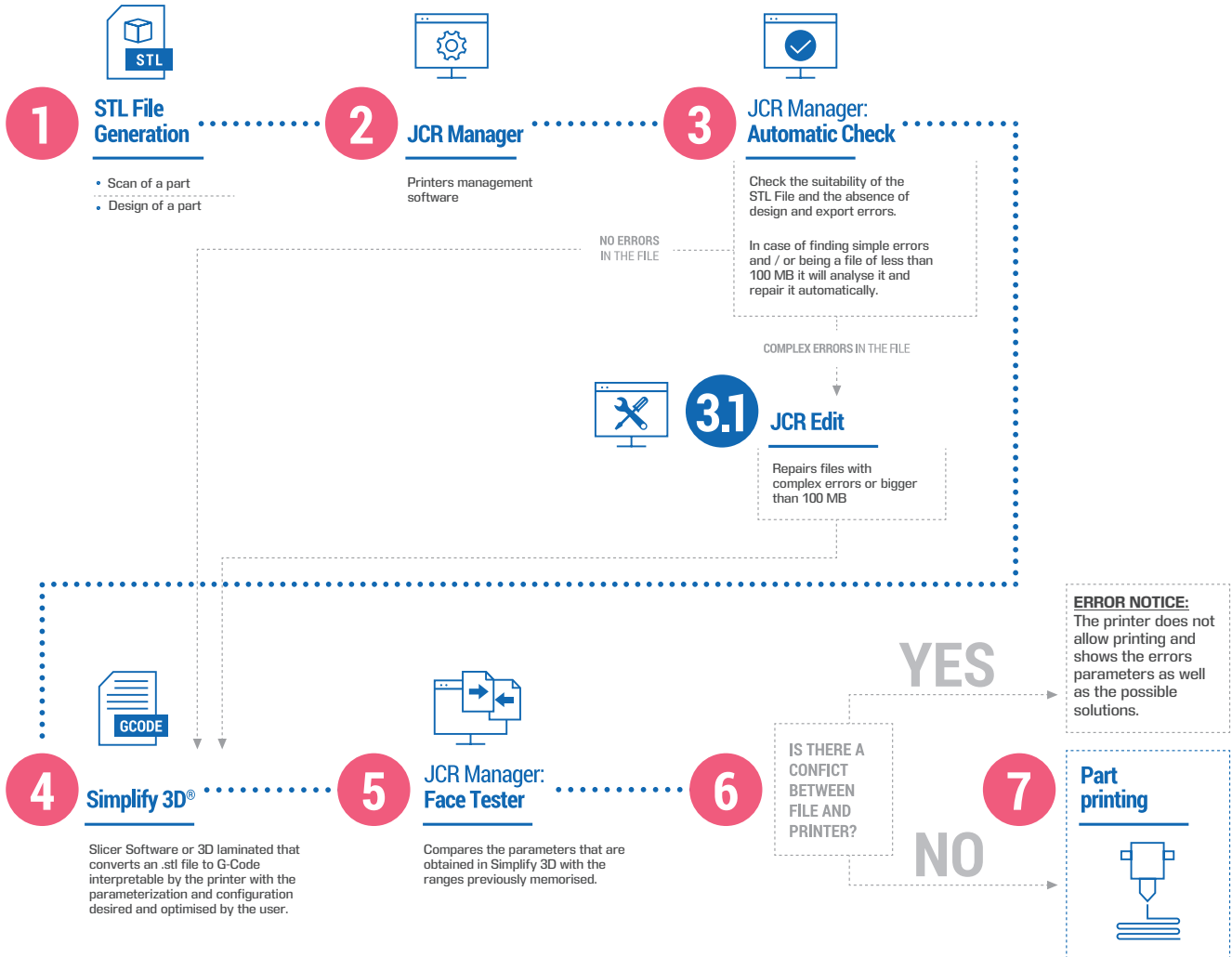
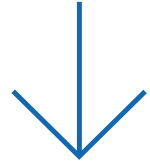
Function that allows you to verify that the configuration of the G-Code file and 3D printer are compatible. Aspects such as thickness of the layer, print speed and printing nozzle are checked for disparity between the printer settings and the G-Code files. If so, it will not allow you to start printing.

JCR Edit

Software created for the manual repair of errors in STL files that cannot be automatically repaired. Also offers you the most common functions, such as cut, assemblies design, mark, number and scale.

Smart

This is how our printers think for you.



Flexible

Upgradeable

All our printers are upgradeable on the models of the same superior range, JCR 600 is upgradeable to JCR 600 Pro, as well as JCR 1000 Single is upgradeable to JCR 1000 Dual, which allows you to have the equipment adapted to your needs at all times.

Print factory

Our JCR Manager Software has the Print Factory function to manage an unlimited number of JCR 3D printers, in their different models, by a single person and in an intelligent way.

Reliable



Extended 2 Year warranty

Our intelligent software systems, automatic warning system for preventive maintenance, and strict factory quality controls allow us to offer users a 2 year warranty for all our models.

100% Printer quality controls

100% verified
technology

Every Smart JCR that leaves the factory is subject to strict quality control that goes through different tests to ensure the perfect state of all its functionalities.

Automatic predictive maintenance system

Service reminders prompt you to carry out the recommended maintenance of the printer depending on the hours of printing and elapsed time. This system allows you to guarantee the good maintenance of the printer.

Intelligent management of power supply interruptions

Intelligent detection of a cut to electric power that allows for safe storage and shutdowns. Automatic notification to the operator and restart of work at the same point it was stopped.

Printers that are open to the use of any printing material

Equipment which is optimised with the mechanics and electronics that allows to support the manufacture with the most demanding materials.

Versatility for professional manufacture

Cost and time savings

The incorporation of any 3D JCR Smart model into your production process is a lever of profitability for your business. This translates firstly into a very quick amortisation of your investment made into the printer, alongside a cost-saving that goes directly towards your company's income statement.

To do this, we provide an exclusive team of engineers who will analyse in each case the impact in term of cost of the piece proposed by the client, and offer design recommendations.

Technical specifications

Dimensionality



Dimensions	1500 x 1210 x 1730 mm
Dimension when it is open	1630 x 1210 x 2540 mm
Weight	400 kg
Packing size	1620 x 1250 x 1860 mm
Packaging weight	750 kg

Mechanics



Structural materials	Steel and aluminium
Printing base material	Technical glass
Cabing	Working conditions (temperature and humidity) controlled
X / Y positional precision	0.15 mm o 0.0015 mm/mm
Z positional precision	0.05 mm

Temperature



Operating room temperature	15-35°C
Storage temperature	0-35°C

Materials



Filaments for building models

JCR Print	High dimensional stability
ABS*	Mechanical Strength
ABS FP*	Flame retardant ABS
ABS HI*	High Impact Resistance
PC*	Supports high temperatures and has a high strength to impact
Nylon*	Very good mechanical properties. Non-abrasive material
Nylon+fibra de carbono*	Excellent thermal and mechanical properties

Filaments for support manufacture / JCR 1000 Dual

PVA*
Water soluble support

Filaments compatibility / JCR 1000 Dual

PLA/JCR PRINT + PVA

Software



Included slicing software	Simplify 3D
Supported formats	.stl, .obj
OS	Windows
JCR Manager	Smart Printer Management
JCR Edit	Software for analysis, repairment and edition of files

Print



Printing technology	FDM (Fused deposition modeling)
Building volume	600 x 1000 x 600 mm
Minimum layer height	0.1 mm
Maximum printing flow	50 g/h
Number of heads	1
Front panel / Display	Tactile, multi-language and full color

Extrusion system	JCR 1000 Single	JCR 1000 Dual
	Single Extruder Basic o Single High Temperature o Single High Production	Extrusor Dual Extruder

Nozzle diameters	0.4, 0.6, 0.8 mm Basic and High temperature extruder
	0.6, 0.8, 1, 1.2 mm High Production extruder

Minimum wall thickness	0.4 mm
Filament diameter	1.75 mm + - 0.05 mm

Maximum temp.	JCR 1000 Single	JCR 1000 Dual	
	Maximum extruder temp.	245°C / 350°C	350°C
	Maximum tray temp.	70°C	130°C
	Maximum cabin temp.	55°C	

Connection / Consumption



Electrical power supply	1F/220V Monophasic
Power consumption (max)	3 Kw
Connectivity	Wi-Fi; Ethernet web RJ45 type; USB

*Printing conditions according to the user guide

After sales service

Advice and file generation for printing

Correct export of CAD file to STL File. Optimised selection of quality, export mesh characteristics, optimising the quality of the final printed part.

Repair of damaged files (specific defects that do not require a re-design of part). 3D models might have faults that may not be visible to the naked eye in the modelling program, which can lead to manufacturing problems.

Advice on design oriented to 3D printing. The optimisation of the design for 3D printing results in an optimisation of time and costs, as well as an increase in the quality of the printed part.

Advice on optimal positioning of parts in the print volume. The optimisation of the positioning for 3D printing derives from an optimisation of time and costs, as well as an increase in the quality of the printed part.

Advice on 3D printing materials. We have specialists in materials, experts in the different industrial sectors, which will analyse your specific case recommending the material that best suits your application, taking into account the most favourable environment for printing.

Technical Assistance Service Phone

A team of certified technicians at the service of our clients.

Optimised G-Code file generation service

Which also includes recommendations of materials and design to increase the performance of 3D printing, either reducing the cost of material or the printing hours.



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