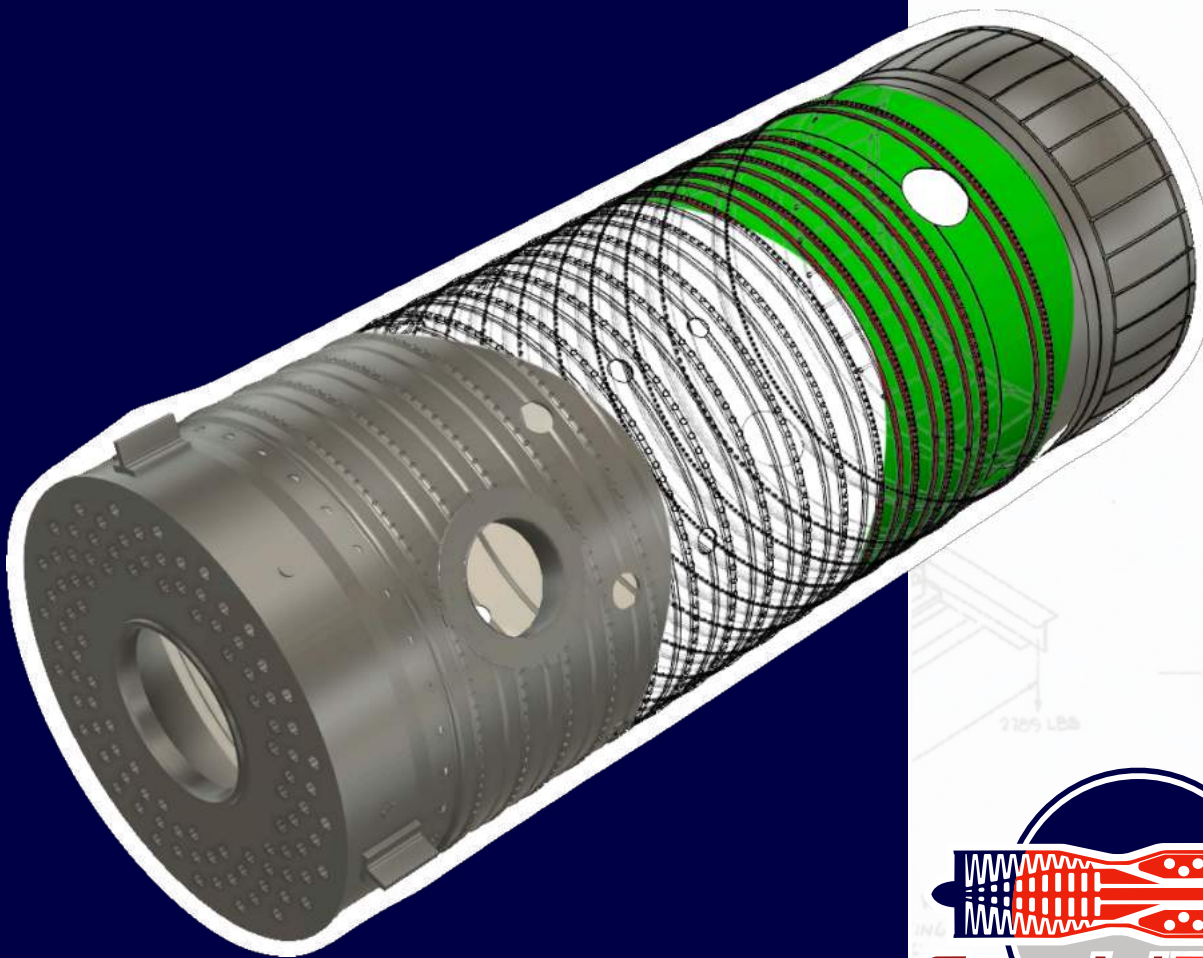
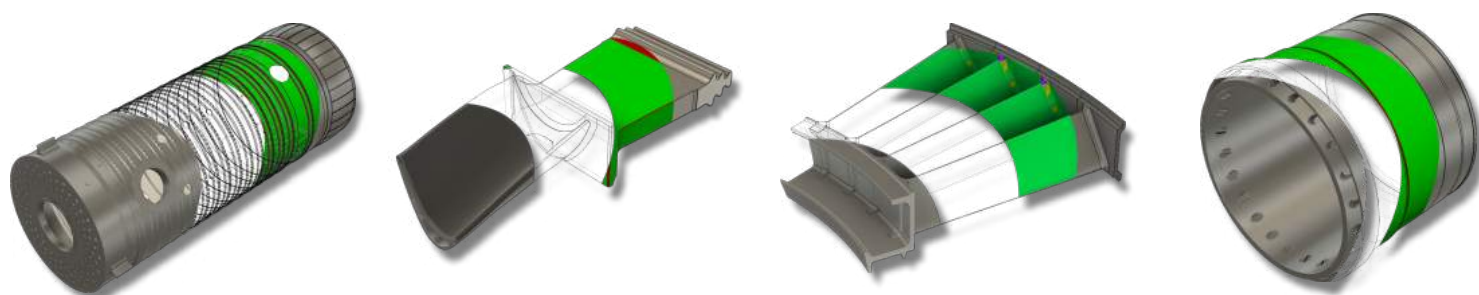


Special Parts



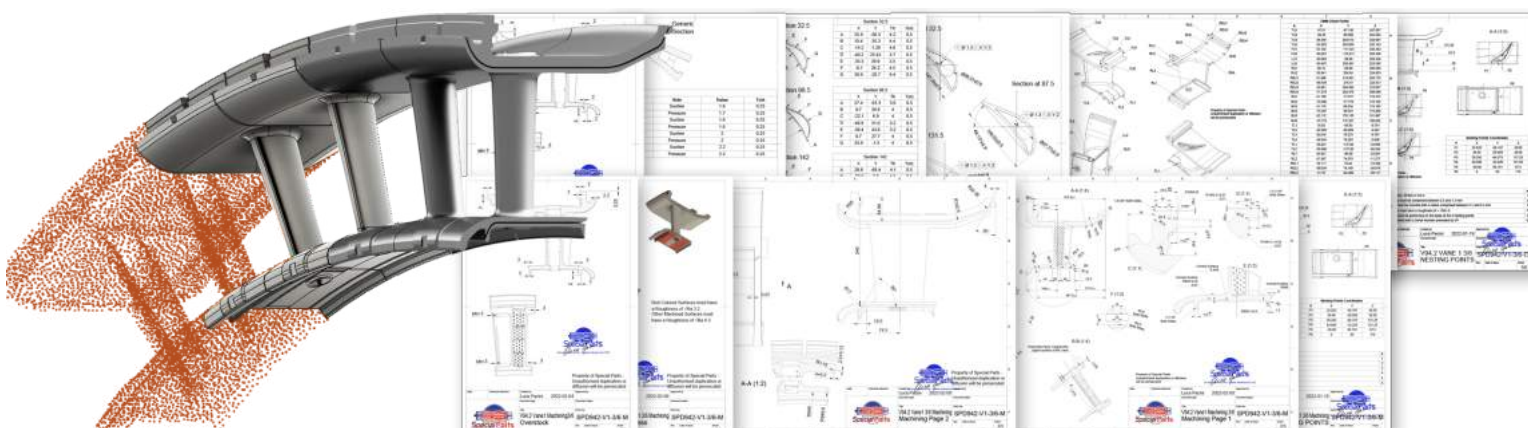
MANUFACTURING MADE EASY

SP's reverse engineering and development activities are aimed to support its customers with fast track cycle, high quality, aftermarket parts. SP's expertise span from combustion chambers, turbine and compressor rotary and stator blades, to small consumable parts. Whether your project is large or small, SP's technical experts together with SP's manufacturing partners and state of the art equipment, will provide the best tailored solution.



Reverse Engineering

One or more samples are used to determine the Material and Shape of the component. For each stage of the production, complete manufacturing documentation, drawings and Quality Acceptance Protocols are drafted.



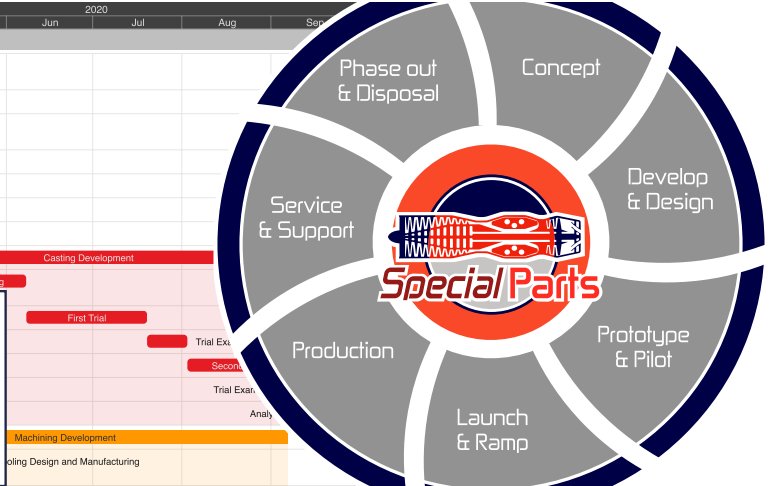
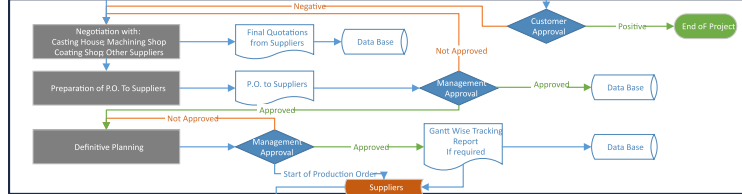


Process Design & Development

The design of all the required tooling is drafted.

The planning and the validation of all the production activities is agreed with all the suppliers involved.

WBS	Task	Start	Finish	Duration	Icon
1	IP Acquisition and Development	3 Feb 2020	7 Oct 2020	248	
1.1	Parts Acquisition	3 Feb 2020	24 Feb 20...	22	
1.2	Coating and base material identification	25 Feb 20...	5 Mar 2020	10	
1.3	3D Scan	25 Feb 20...	2 Mar 2020	7	
1.4	X-Ray	25 Feb 20...	28 Feb 20...	4	
1.5	Sample Cut and Scan	25 Feb 20...	2 Mar 2020	7	
1.6	3D Machining Model Design	16 Mar 20...	5 Apr 2020	21	
2	Casting Development	6 Apr 2020	22 Sep 2...	170	
2.1	Tooling Design and	6 Apr 2020	7 Jun 2020	63	



Process Validation

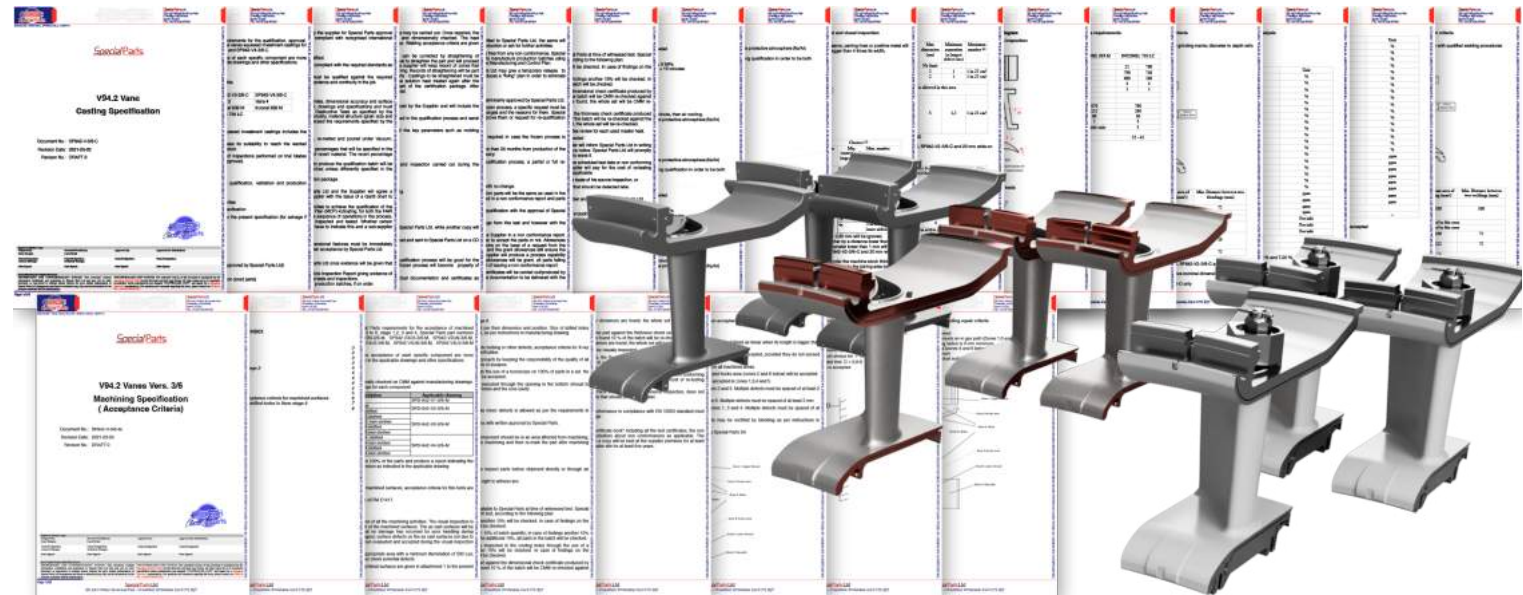
The definitive plan, drawings, Manufacturing and Quality Specification are presented to the Customer for its evaluation and approval.



Manufacturing

Under SP Supervision, each company within the supply chain produces several trial parts in order to perfect the manufacturing processes and to guarantee continued repeatability of the quality requirements during the production.

All relevant parameters and data are registered in the FAIR (First Article Inspection Report)





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