

SHOTLIST OF ADDITIVE MANUFACTURING CENTER IN SINGAPORE

TITLE OF PRODUCTION	ADDITIVE MANUFACTURING CENTER IN SINGAPORE EXTERIORS & INTERIORS voestalpine Additive Manufacturing Center Singapore Pte. Ltd
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DATE OF PRODUCTION	August 2018
AVAILABLE FORMATS	<ul style="list-style-type: none"> » TV Europa (50i): mov, 1920x1080, Full HD » TV USA (59i): mov, 1920x1080, Full HD » Web (H.264): mp4, 1920x1080, Full HD
KEYWORDS	<ul style="list-style-type: none"> » Additive Manufacturing

SCENE	TIME FROM	TIME TO	CAMERA PERSPECTIVE	SCENE DESCRIPTION
1	0:10	0:29	Drone	Exteriors
2	0:29	0:39	Chart	Interiors
3	0:39	1:11	Medium Close up/Close up	Employee opens Additive Manufacturing machine and puts the metal powder in the machine
4	1:11	1:18	Close up	Simulation of work piece on screen. The software takes the existing CAD file and cuts the 3D model into slices to create a build path for the manufacture of the component. In this case we are building blades onto the surface of a tubular core.
5	1:18	1:45	Medium Close up	The central core is loaded onto a location fixture and locked in place.

SCENE	TIME FROM	TIME TO	CAMERA PERSPECTIVE	SCENE DESCRIPTION
6	1:45	2:08	Medium Close up/Close up	Laser deposition of the metals powder onto the central core building up the blade layer by layer. Pictures taken outside the machine.
7	2:08	2:35	Medium Close up/Close up	Laser deposition of the metals powder onto the central core building up the blade layer by layer. Pictures taken inside the machine.
8	2:35	2:46	Medium Long Shot	Operator checking powder deposition rate and build height of the blade.
9	2:46	3:00	Long Shot	Operator checking powder deposition rate and build height of the blade.
10	3:00	3:07	Long Shot	Operator viewing process control parameters
11	3:07	4:01	Medium Close up/Close up	Operator checking process and build information. Parameter feedback for the close loop control of the powder melt pool via the Adaptive Process Control (APC) screen.
12	4:01	5:04	Medium Close up	Laser deposition of the metal powder continues to build blade height layer by layer until the pre-programed height is completed.
13	5:04	5:32	Medium Close up	On site laboratory to verify the quality of deposition and build of final component
14	5:32	5:46	Medium Close up/Close up	CNC lathe used to machine steel for our customers. The example shown is an offset mandrel used in the Oil & Gas industry. (nothing to do with Additive Manufacturing)