SHOTLIST OF FOOTAGE PHS-DIRECTFORM, DIRECT PROCESS SCHWÄBISCH-GMÜND, GERMANY

TITLE OF PRODUCTION	phs-directform, Direct Process Schwäbisch-Gmünd, Germany				
CONTACT	mediarelations@voestalpine.com				
DATE OF PRODUCTION	June 2016				
AVAILABLE FORMATS	 TV Europa (50i): mov, 1920x1080, Full HD TV USA (59i): mov, 1920x1080, Full HD Web (H.264): mp4, 1920x1080, Full HD 				
	» 4K available on request				
KEYWORDS	 Direct hot-forming process Corrosion protection Lightweight construction solution Automotive lightweight construction High-strength components Cathodic corrosion protection Optimize process cause Crash performance Pre-cooling to avoid micro cracks in the galvanized layer Direct forming process for galvanized material 				

SCENE	TIME FROM	TIME TO	CAMERA PERSPECTIVE	SCENE DESCRIPTION
1	00:00	00:10	Medium Long Shot	Forklift drives through the shot



voestalpine AG

SCENE	TIME FROM	TIME TO	CAMERA PERSPECTIVE	SCENE DESCRIPTION
2	00:10	00:21	Medium Long Shot	De-stacking of the blanks by means of robot as well as double piece sensor and laying on the furnace chain
3	00:21	00:27	Close up	Laying of the blanks on the furnace chain
4	00:27	00:40	Medium Long Shot	Marking/Double sheet sensor prior to laying of the blanks on the furnace chain
5	00:40	00:54	High-angle Shot	Laying of the blanks on the furnace chain/double sheet control prior to laying the blank on the furnace chain
6	00:55	01:01	Medium Long Shot	Employee monitors the drawing of the blanks from the furnace, red-hot blanks come from the furnace at about 920°C
7	01:02	01:06	Medium Close up	Red-hot blanks come from the furnace at about 920°C, are centered and then accepted by the transfer feeder
8	01:06	01:15	High-angle Shot	Red-hot blanks come from the furnace at about 920°C, are centered and then accepted by the transfer feeder and forwarded to the pre-cooling station
9	01:15	01:22	High-angle Shot	Red-hot blanks come from the furnace at about 920°C, are centered and then accepted by the transfer feeder and forwarded to the pre-cooling station
10	01:22	01:33	Medium Close up	View into the furnace discharge area; red-hot blanks are discharged from the furnace feeder and put on the centering device; received from the transfer feeder
11	01:33	01:40	Medium Close up	View into the furnace discharge area; red-hot blanks are discharged from the furnace feeder and put on the centering device; received from the transfer feeder

