

Materials List for:

Experimental Procedure for Warm Spinning of Cast Aluminum Components

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Materials

Name	Company	Catalog Number	Comments
Reagent/Material			
High temperature grease	Dow Corning	Molycote M-77	
High temperature lubricant	Superior Graphite	sureCOAT	
High temperature die coat	Vesuvius/Foseco	DYCOTE 32	
Equipment			
Equipment			
Live center	Riten Industries	17124	Bell-head, spring loaded
Live center adapter	Riten Industries	431	Adapter for lathe
Impact wrench	Chicago Pneumatic	CP7749-2	1/2" drive, 0-545 ft-lb
Torque wrench	Westward Tools	6PAG0	1/2" drive, 0-250 ft-lb
Air-powered paint sprayer	Cambell Hausfeld	DH4200	For die coat
Air-powered paint sprayer	Cambell Hausfeld	DH5500	For graphite-based lubricant, high volume low pressure (HVLP) type
Data acquisition unit	Measurement Computing	USB-2416	
Reed thermocouple	Omega Engineering	88108	
Propane tank	Generic		20/40 lb, POL fitted
Solenoid valve	Aztec Heating	SV-S121	
Gas regulator	Aztec Heating	67CH-743	0-30 psi
Burner tips	Exact	3119	Qty: 4
Roller bearings	SKF	32005 X/Q	Qty: 2
Remaining equipment designed and fabricated in-house			