

THERMAL SIMULATION OF LASER SURFACE PROCESSING FOR HOT
FORMING DIE SURFACE HARDENING

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LIST OF SYMBOLS

mm	millimeter
mm/min	millimeter per minute
kg/m ³	kilogram per meter cube
W/m. K	Watt per meter Kelvin
J/kg. K	Joule per kilogram Kelvin
°C	Degree Celsius
k	Thermal Conductivity
T_0	Initial Temperature
σ	Stefan Boltzmann
C_p	Specific Heat

LIST OF ABBREVIATIONS

APDL	ANSYS Parametric Design Language
CAD	Computer Aided Design
FEA	Finite Element Analysis
FEM	Finite Element Method