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## A review on hot stamping

DOI: 10.1016/j.jmatprotec.2010.07.019

Journal of Materials Processing Technology, 2010, 210, 2103-2

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#	Paper	IF	Citations
1235	Nondestructive Testing for Evaluating Surface Integrity. <b>1984</b> , 33, 489-509		16
1234	Indirect Hot Stamping of Boron Steel 22MnB5 for an Upper B-Pillar. <b>2011</b> , 314-316, 703-708		
1233	Semi-hot Stamping as an Improved Process of Hot Stamping. <b>2011</b> , 27, 369-376		34
1232	Enhanced mechanical properties of a hot stamped advanced high-strength steel treated by quenching and partitioning process. <b>2011</b> , 64, 749-752		121
1231	Balancing procedure for energy and material flows in sheet metal forming. <b>2011</b> , 4, 170-179		13
1230	Investigation on Dynamic Recovery Behavior of Boron Steel 22MnB5 under Austenite State at Elevated Temperatures. <b>2011</b> , 4, 1147-1154		3
1229	Tribological characteristics of high strength steel sheets under hot stamping conditions. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1694-1700	5.3	52
1228	Valuation method for effects of hot stamping process parameters on product properties using hot forming simulator. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1441-1447	5.3	36
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1221	Advances in Sheet Forming Materials Modeling, Numerical Simulation, and Press Technologies. <b>2011</b> , 133,		25
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1219	Influence of Temperature on AA6014 Alloy Tribological Behaviour in Stamping Operations. <b>2011</b> ,		

1218	Simulation of Tailored Tempering with a Thermo-Mechanical-Metallurgical Model in AutoFormplus. <b>2011,</b>		5
1217	Investigation on the Effects of Sheet Thickness and Deformation Temperature on the Forming Limits of Boron Steel 22MnB5. <b>2011,</b> 474-476, 993-997		6
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1214	Thermo-Mechanical Analysis of a Cooling System for Hot Stamping Tools. <b>2012,</b> 538-541, 2053-2060		
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1211	Innovative concept for combining the austinitization and surface coating of steel into one step. <b>2012,</b> 226, 1281-1284		2
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1209	Influences of Mould Shape on Heat Transfer in Hot Forming Process. <b>2012,</b> 503-504, 198-201		
1208	A strain rate sensitive constitutive model for quenched boron steel with tailored properties. <b>2012,</b> 50, 49-62		89
1207	Hard-coupled model of local direct resistance heating of thin sheets. <b>2012,</b> 236, 4725-4731		4
1206	Effect of Heating Parameters on the Part Properties in Hot Stamping Process. <b>2012,</b> 557-559, 2417-2422		
1205	Comparison of Thinning Features of a Hot and Cold Stamped Aluminium B-Pillar Model for Passenger Cars. <b>2012,</b> 562-564, 234-237		1
1204	Hot forming of boron steels using heated and cooled tooling for tailored properties. <i>Journal of Materials Processing Technology,</i> <b>2012,</b> 212, 2386-2399	5-3	131
1203	Predictions of the Mechanical Properties and Microstructure Evolution of High Strength Steel in Hot Stamping. <b>2012,</b> 21, 2244-2254		23
1202	Smart hot stamping of ultra-high strength steel parts. <b>2012,</b> 22, s496-s503		42
1201	Liquid-Metal-Induced Embrittlement of Zn-Coated Hot Stamping Steel. <b>2012,</b> 43, 5122-5127		75

1200	Effect of tool temperature and punch speed on hot stamping of ultra high strength steel. <b>2012</b> , 22, s534-s541	17
1199	Transition Zone Tensile Properties within a Tailored Hot Stamping. <b>2012</b> ,	1
1198	State-of-the-Knowledge on Coating Systems for Hot Stamped Parts. <b>2012</b> , 83, 412-433	108
1197	Thermal contact conductance estimation and experimental validation in hot stamping process. <b>2012</b> , 55, 1852-1857	25
1196	Punching of small hole of die-quenched steel sheets using local resistance heating. <b>2012</b> , 61, 255-258	44
1195	Sheet forming process of carbon fiber reinforced plastics for lightweight parts. <b>2012</b> , 61, 247-250	81
1194	Microstructure distribution and mechanical properties prediction of boron alloy during hot forming using FE simulation. <b>2012</b> , 535, 241-251	24
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1191	Writing a review paper. <i>Journal of Materials Processing Technology</i> , <b>2012</b> , 212, 1-2	5-3 2
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1189	Effect of carburising on geometrical control during quenching of martensitic sheet steel channels. <i>Journal of Materials Processing Technology</i> , <b>2012</b> , 212, 1802-1809	5-3 1
1188	Experimental and numerical study of electrically-assisted micro-rolling. <b>2013</b> ,	3
1187	Prediction of Forming Limit Diagrams for 22MnB5 in Hot Stamping Process. <b>2013</b> , 22, 2131-2140	34
1186	Future Trends in Production Engineering. <b>2013</b> ,	4
1185	Effect of Zr addition on phase transformation and precipitation in B-added hot stamping steel. <b>2013</b> , 19, 629-635	7
1184	Hot-stamping die-cooling system for vehicle door beams. <b>2013</b> , 14, 1251-1255	12
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1181	Experimental Characterization of Heat Transfer Coefficients During Hot Forming Die Quenching of Boron Steel. <b>2013</b> , 44, 332-343		27
1180	A New Methodology for Designing Heat Treated Components in Fatigue. <b>2013</b> , 66, 292-299		
1179	Investigation into adhesive wear of PVD coated and uncoated hot stamping production tools. <b>2013</b> , 308, 148-154		25
1178	Influence of grain size and grain boundaries on the thermal and mechanical behavior of 70/30 brass under electrically-assisted deformation. <b>2013</b> , 574, 218-225		83
1177	Improved hot-stamping analysis of tubular boron steel with direct measurement of heat convection coefficient. <b>2013</b> , 14, 717-722		12
1176	The influence of heat treatment and resulting microstructures on the thermophysical properties of martensitic steels. <b>2013</b> , 48, 8483-8492		24
1175	Effects of auto-tempering behaviour of martensite on mechanical properties of ultra high strength steel sheets. <b>2013</b> , 577, S661-S667		51
1174	Hot stamping of AA5083 aluminium alloy sheets. <b>2013</b> , 62, 251-254		73
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1161	Numerical prediction of microstructure and mechanical properties for the S-rail with tailored properties. <b>2013</b> ,	
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1153	Microstructure and Mechanical Properties of 22MnB5 Steel with Different Cooling Method. <b>2013</b> , 331, 555-558	1
1152	Optimization of the Product of Strength and Plasticity of Hot-Stamped WHT1300HF High Strength Steel. <b>2013</b> , 798-799, 280-285	
1151	Driving Force and Logic of Development of Advanced High Strength Steels for Automotive Applications. <b>2013</b> , 84, n/a-n/a	37
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1148	Hot Stamping and Blank Designing for a Vehicle Bumper Using Ultra High Strength Steel (UHSS). <b>2013</b> , 690-693, 2240-2244	13
1147	Thermo-Mechanics and Microstructure Evolution in Manufacturing Simulations. <b>2013</b> , 36, 564-588	7

1146	Advanced Materials for Automotive Application. <b>2013</b> , 47, 012010	4
1145	The influence of deformation history on microstructure and microhardness during the hot stamping process of boron steel B1500HS. <b>2013</b> , 46, 255	4
1144	Investigation into springback characteristics of two HSS sheets during cold v-bending. <b>2013</b> ,	1
1143	Modelling and Optimization of a Batch Furnace for Hot Stamping. <b>2013</b> ,	1
1142	Advancements in tailored hot stamping simulations: Cooling channel and distortion analyses. <b>2013</b> ,	4
1141	High Temperature Heat Transfer During Hot Forming Die Quenching of Boron Steel. <b>2013</b> ,	
1140	Efficient simulation of press hardening process through integrated structural and CFD analyses. <b>2013</b> ,	
1139	Recent development trends in sheet metal forming. <b>2013</b> , 8, 125	13
1138	The Effect of Process and Model Parameters in Temperature Prediction for Hot Stamping of Boron Steel. <b>2013</b> , 5, 829379	3
1137	The Influence of Edge Preparation Method on the Hole Expansion Performance of Automotive Sheet Steels. <b>2013</b> ,	8
1136	Deep Drawing by Indirect Hot Stamping. <b>2013</b> ,	
1135	Sheet Metal Performance: Hot Stamping and Hydroforming Process Contributions for INOVAR Auto Program. <b>2013</b> ,	
1134	Laser welding for hot-stamped tailor-welded blanks with high-strength steel/high-energy absorption steel. <b>2013</b> ,	
1133	A Study of Hot Stamping Process for Producing Ultra-High Strength Steel Part. <b>2014</b> ,	1
1132	Effect of Die Surface Coating on Coefficient of Friction in Hot Stamping of Aluminum-coated High-Strength Steel. <b>2014</b> , 55, 132-136	7
1131	Steel Processing: Formability of Steel Sheets and Tailor-Welded Blanks for Automotive Applications. <b>2014</b> , 1-26	1
1130	Hot Stamping. <b>2014</b> , 27-54	12
1129	Resistance of Hydrogen Embrittlement on Hot-sheared Surface during Die-quench Process. <b>2014</b> , 54, 2369-2374	14

1128	Hot Stamping. <b>2014</b> , 351-370	5
1127	New Process of Hot Stamping in Combination with Q-P-T Treatment for Higher Strength-Ductility Auto-Parts. <b>2014</b> , 1063, 223-231	1
1126	Hot Stamping of High Strength Steel with Tailored Properties by Two Methods. <b>2014</b> , 81, 1725-1730	18
1125	Two constitutive descriptions of boron steel 22MnB5 at high temperature. <b>2014</b> , 63, 738-748	37
1124	Effects of surface coating on weld growth of resistance spot-welded hot-stamped boron steels. <b>2014</b> , 28, 4761-4769	30
1123	Dissimilar Arc Welding of Advanced High-Strength Car-Body Steel Sheets. <b>2014</b> , 23, 3949-3956	11
1122	Numerical and Experimental Investigation on Hot Stamping of Ultra-High Strength Steel. <b>2014</b> , 941-944, 1720-1725	
1121	Optimal Design about Parameters of Cooling Pipes in Hot Stamping Die. <b>2014</b> , 988, 263-267	2
1120	Localized Austenitizing of the Blank to Make Tailored-Properties by Induction Heating. <b>2014</b> , 1063, 190-193	
1119	A Force Model for UHSS Hot-Formed Automobile Parts. <b>2014</b> , 1063, 322-329	
1118	Effect of Pre-Heating Temperature on Microstructure and Properties of 22MnB5 Steel Hot Stamping. <b>2014</b> , 1063, 108-111	1
1117	Novel Wear Testing Apparatus to Investigate the Reciprocating Sliding Wear in Sheet Metal Forming at Elevated Temperatures. <b>2014</b> , 622-623, 1158-1165	6
1116	Experimental Study on Conduction Heating of Ultra-High Strength Boron Steel. <b>2014</b> , 898, 185-188	3
1115	Non-Uniform Contact and Friction Sensitivity on Formability of Boron Steel in Hot Stamping Process. <b>2014</b> , 1063, 198-201	
1114	Blank Shape Sensitivity on Temperature Distribution of Hot Stamping Boron Steel through Conduction Heating. <b>2014</b> , 1063, 211-214	2
1113	Localization on Technologies and Equipments of Hot-Stamping. <b>2014</b> , 1063, 345-349	1
1112	Comparison of Cooling Performance between High Thermal Conductivity Steel (HTCS 150) and Hot Work Tool Steel (SKD 61) Insert for Experimental Tool Using Finite Element Analysis. <b>2014</b> , 903, 163-168	3
1111	Microstructure and Mechanical Properties of 22MnB5 Hot Stamping Part. <b>2014</b> , 1063, 65-68	1



1110	Deformation analysis of hot stamping tools by thermal fluid-mechanical coupled approach based on MpCCI. <b>2014</b> , 18, S4-1068-S4-1073	1
1109	Cold Metal Transfer Joining of Aluminum AA6061-T6-to-Galvanized Boron Steel. <b>2014</b> , 136,	22
1108	Hot Stamping of Door Impact Beam. <b>2014</b> , 81, 1786-1791	18
1107	Experimental and Theoretical Studies on Formability of 22MnB5 at Elevated Temperatures by Gleeble Simulator. <b>2014</b> , 81, 1682-1688	13
1106	Laser welding for hot-stamped tailor-welded blanks with high-strength steel/high-energy absorption steel. <b>2014</b> , 26, 032007	7
1105	Characterization of the Bendability of Press-Hardened 22MnB5 Steel. <b>2014</b> , 85, 824-835	16
1104	Forming of Lightweight Metal Components: Need for New Technologies. <b>2014</b> , 81, 28-37	54
1103	Cold and Warm V-bending Test for Carbon-fiber-reinforced Plastic Sheet. <b>2014</b> , 81, 1633-1638	16
1102	Hot Stamping Technology Applied on Vehicles on EuroCarBody. <b>2014</b> , 1063, 232-236	1
1101	Investigation of Mechanical Property and Springback Behavior with Hot Stamping RCP Process. <b>2014</b> , 1063, 186-189	11
1100	Corrosion Behavior Study of 22MnB5 Steel and its Weld Using Electrochemical Method. <b>2014</b> , 496-500, 340-343	2
1099	Influence of Tooling Material and Temperature on the Final Properties of Tailor Tempered Boron Steels. <b>2014</b> , 611-612, 1102-1109	1
1098	The Parametric Design of Cooling System of Hot Stamping Die. <b>2014</b> , 1063, 276-279	2
1097	Simulation Study on the Austenisation and Cooling Behaviors of the Medium-Mn Steel. <b>2014</b> , 1063, 3-6	1
1096	Hot Stamping Technology for Door Impact Beam. <b>2014</b> , 1063, 318-321	
1095	Investigation of a Bulge Test at High Temperatures and High Strain Rates Using a Finite-Element Simulation Study. <b>2014</b> , 622-623, 300-307	0
1094	Softening of High-Strength Steel for Laser Assisted Clinching. <b>2014</b> , 966-967, 617-627	15
1093	Cracking Behavior of Al-Si Coating on Hot Stamping Boron Steel Sheet. <b>2014</b> , 81, 1713-1718	10

1092	Investigation of Hot Stamping Process of 22MnB5 Based on Metallo-Thermo-Mechanical Theory. <b>2014</b> , 1063, 251-256	
1091	The Process Optimization to Prevent the Local Wrinkles of Hot Stamping Parts and the Design of Tools. <b>2014</b> , 1063, 301-304	
1090	Cracking and interfacial debonding of the AlSi coating in hot stamping of pre-coated boron steel. <b>2014</b> , 316, 595-603	41
1089	Feasibility Study on Die Quenching of AA2024 Aluminum Alloy Billet Using Servo Press. <b>2014</b> , 922, 286-291	3
1088	Wear Behaviour of Al-Si and Zn Coated 22MnB5 in Hot Stamping. <b>2014</b> , 966-967, 209-218	1
1087	Study on Three Dimensional Direct Coupling Simulation of Induction Heating for Hot Stamping. <b>2014</b> , 1063, 280-289	
1086	Effect of Cooling Path on Phase Transformation of Boron Steel 22MnB5. <b>2014</b> , 81, 1707-1712	5
1085	Hot Stamping of Load Adjusted Structural Parts. <b>2014</b> , 81, 1756-1761	18
1084	Optimized Design and Numerical Simulation of B-Pillar Reinforcement Panel by Hot Stamping Steel. <b>2014</b> , 1063, 309-313	
1083	Microstructure and Mechanical Properties of 22MnB5 Steel with Different Heat Treatment. <b>2014</b> , 1063, 55-58	
1082	Warm Stamping of the 3rd Generation Sheet Steel for Automobiles. <b>2014</b> , 1063, 219-222	2
1081	Hot Stamping Parts with Tailored Properties by Local Resistance Heating. <b>2014</b> , 81, 1731-1736	12
1080	Effects of Austenitizing Temperature on Microstructure and Properties of Hot-Formed Steel. <b>2014</b> , 1063, 88-92	1
1079	A Material Selection Criterion for Hot-Stamping Dies. <b>2014</b> , 490-491, 25-28	1
1078	Novel Experimental Set-Up to Test Tubes Formability at Elevated Temperatures. <b>2014</b> , 611-612, 62-69	4
1077	Prediction of Microstructure and Mechanical Properties in Hot Stamping. <b>2014</b> , 1063, 314-317	
1076	Concept Validation for Selective Heating and Press Hardening of Automotive Safety Components with Tailored Properties. <b>2014</b> , 622-623, 1124-1131	5
1075	Sustainable design and manufacture of lightweight vehicle structures. <b>2014</b> , 433-461	3

1074	Microstructure and mechanical properties of fiber laser welded joints of ultrahigh-strength steel 22MnB5 and dual-phase steels. <b>2014</b> , 29, 2565-2575		28
1073	A Novel Fabrication Technology of Hot Stamping Film. <b>2014</b> , 610, 998-1001		
1072	Development of Hot Stamping Front Pillar Reinforcement. <b>2014</b> , 1063, 207-210		0
1071	Die quenching limit of AA2024 aluminum alloy billet on servo press. <i>Journal of Materials Processing Technology</i> , <b>2014</b> , 214, 2514-2521	5-3	7
1070	Thermo-mechanical behavior of the AlBi alloy coated hot stamping boron steel. <b>2014</b> , 60, 26-33		52
1069	Investigation of the hot ductility of a high-strength boron steel. <b>2014</b> , 608, 90-94		17
1068	Numerical modelling of the tailored tempering process applied to 22MnB5 sheets. <b>2014</b> , 81, 69-81		46
1067	Determination of Proper Austenitization Temperatures for Hot Stamping of AISI 4140 Steel. <b>2014</b> , 23, 1138-1145		7
1066	Effect of strip entry temperature on the formation of interfacial layer during hot-dip galvanizing of press-hardened steel. <b>2014</b> , 240, 269-274		12
1065	A local heating method by near-infrared rays for forming of non-quenchable advanced high-strength steels. <i>Journal of Materials Processing Technology</i> , <b>2014</b> , 214, 784-793	5-3	36
1064	Effect of boron content and welding current on the mechanical properties of electrical resistance spot welds in complex-phase steels. <b>2014</b> , 54, 598-609		19
1063	Determination of the Active Medium Temperature in Media Based Press Hardening Processes. <b>2014</b> , 136,		10
1062	Experimental Investigation of Hot Stamping of Ultra High Strength Steel. <b>2014</b> , 85, 1459-1464		5
1061	The influence of martensite, bainite and ferrite on the as-quenched constitutive response of simultaneously quenched and deformed boron steel [Experiments and model. <b>2014</b> , 55, 509-525		60
1060	Gas forming of ultra-high strength steel hollow part using air filled into sealed tube and resistance heating. <i>Journal of Materials Processing Technology</i> , <b>2014</b> , 214, 97-105	5-3	47
1059	Experimental heat transfer coefficient measurements during hot forming die quenching of boron steel at high temperatures. <b>2014</b> , 71, 396-404		52
1058	Investigations on the Manufacturability of Thin Press Hardened Steel Components. <b>2014</b> , 18, 74-79		14
1057	Effect of Solubilisation on the High-temperature Formability of AA6016 Sheets. <b>2014</b> , 18, 68-73		4

1056	Formability of aluminum-silicon coated boron steel in hot stamping process. <b>2014</b> , 24, 1750-1757		11
1055	Materials selection for hot stamped automotive body parts: An application of the Ashby approach based on the strain hardening exponent and stacking fault energy of materials. <b>2014</b> , 63, 247-256		26
1054	Thermal behavior of aluminum-coated 22MnB5 in hot stamping under dry and lubricated conditions. <i>Journal of Materials Processing Technology</i> , <b>2014</b> , 214, 3031-3036	5:3	4
1053	Mechanical Behavior of 980MPa NANOHITENTM at Elevated Temperatures and its Effect on Springback in Warm Forming. <b>2014</b> , 611-612, 11-18		4
1052	Hybrid processes in manufacturing. <b>2014</b> , 63, 561-583		227
1051	Testing and modelling of material behaviour and formability in sheet metal forming. <b>2014</b> , 63, 727-749		151
1050	The effect of quenching and defects size on the HCF behaviour of Boron steel. <b>2014</b> , 68, 80-89		14
1049	New generation ultrahigh strength boron steel for automotive hot stamping technologies. <b>2014</b> , 30, 818-826		24
1048	Modeling for periodic striation and microstructure evolution in active gas melt laser cutting for phase hardened parts. <b>2014</b> , 70, 1421-1426		9
1047	Modeling of the Austenitization of Ultra-high Strength Steel with Cellular Automation Method. <b>2014</b> , 45, 3161-3171		19
1046	Microstructural Evolution of the 55 Wt Pct Al-Zn Coating During Press Hardening. <b>2014</b> , 45, 4499-4509		11
1045	Heat Transfer in Hot Stamping of High-Strength Boron Steel Sheets. <b>2014</b> , 45, 1192-1195		6
1044	Application of mechanical trimming to hot stamped 22MnB5 parts for energy saving. <b>2014</b> , 15, 1087-1093		26
1043	An Introduction to Advanced Hot-Formed Steel for Automobile. <b>2014</b> , 27, 373-382		7
1042	Microstructure of liquid metal embrittlement cracks on Zn-coated 22MnB5 press-hardened steel. <b>2014</b> , 90-91, 25-28		69
1041	Application of Quenching and Partitioning (Q&P) Processing to Press Hardening Steel. <b>2014</b> , 45, 4022-4037		52
1040	Improvement in formability by control of temperature in hot stamping of ultra-high strength steel parts. <b>2014</b> , 63, 301-304		46
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644	Effect of keyhole mode on weld shape and mechanical properties of thin sheets of Al-Si coated 22MnB5 steel. <b>2018</b> , 30, 042001	1
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640	Subcritical heat affected zone softening in hot-stamped boron steel during resistance spot welding. <b>2018</b> , 155, 170-184	30
639	Multi-objective reliability-based optimization for cooling channel of a UHSS hot-stamping die. <b>2018</b> , 97, 3237-3249	4
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630	Development of a hot stamping clinching tool. <b>2018</b> , 34, 650-658	20
629	Influences of hot stamping parameters on mechanical properties and microstructure of 30MnB5 and 22MnB5 quenched in flat die. <b>2018</b> , 25, 736-746	7
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621	Identification of a process window for tailored carburization of sheet metals in hot stamping. <b>2018</b> ,	1
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615	Forming characteristics of tube free-bending with small bending radii based on a new spherical connection. <b>2018</b> , 133, 72-84	26
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604	Thermo-Mechanical Coupled Analysis of Hot Press Forming with 22MnB5 Steel. <b>2019</b> , 20, 813-825	5
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579	Influence of Austenite Grain Size on Mechanical Properties after Quench and Partitioning Treatment of a 42SiCr Steel. <b>2019</b> , 9, 577	3
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553	Thermo-Mechanical Constitutive Equation of 22MnB5 Steel Sheet for Hot Press Forming Process. <b>2019</b> , 20, 663-672		4

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450	Measurement and Analysis of Heterogeneous Strain Fields in Uniaxial Tensile Tests for Boron Steel Under Hot Stamping Conditions. <b>2020</b> , 60, 1289-1300	7
449	Tailoring Soft Local Zones in Quenched Blanks of the Steel 22MnB5 by Partial Pre-cooling with Compressed Air. <b>2020</b> , 29, 4379-4389	1
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447	Minimisation of Heating Time for Full Hardening in Hot Stamping Using Direct Resistance Heating. <b>2020</b> , 4, 80	4
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445	Industry case study: process chain for manufacturing of a large hybrid hot stamping tool with conformal cooling channels. <b>2020</b> , 110, 1723-1730	4

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443	New Developments and Future Trends in Low-Temperature Hot Stamping Technologies: A Review. <b>2020</b> , 10, 1652	8
442	Effect of Cooling Path on Microstructures and Hardness of Hot-Stamped Steel. <b>2020</b> , 10, 1692	3
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440	Inferring the surface roughness of Al-Si coated 22MnB5 steel using an in situ laser speckle characterization technique. <b>2020</b> , 967, 012075	1
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436	Hot stamping of non-rectangular steel sheets using resistance heating by local preheating. <b>2020</b> , 50, 298-302	0
435	Microstructures and Flow Behavior of Ductibor <sup>®</sup> 500-AS Steel for a Range of As-Quenched Conditions. <b>2020</b> , 29, 7153-7169	3
434	General Research on the Process of the Indirect Hot Stamping Ultra-High-Strength Steel. <b>2020</b> , 10, 1658	
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432	Evaluations of tensile properties as a function of austenitizing temperature and springback by V-bending testing in medium-Mn steels. <b>2020</b> , 787, 139534	3
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429	Research on the local formability of Al-Mg-Si alloy sheet during rapid hot gas forming. <b>2020</b> , 108, 1839-1848	3
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427	Induction Weld Seam Characterization of Continuously Roll Formed TRIP690 Tubes. <b>2020</b> , 10, 425	1

426	Calibration of Johnson-Cook Model Using Heterogeneous Thermo-Mechanical Tests. <b>2020</b> , 47, 881-888	1
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424	Investigation on the mechanical properties of press-hardened boron steel sheets using the conductive heating technique. <b>2020</b> , 234, 1084-1098	1
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422	Strain rate and temperature dependent fracture of aluminum alloy 7075: Experiments and neural network modeling. <b>2020</b> , 135, 102788	39
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415	Electrochemical behaviour of 22MnB5 steel coated with hot-dip Al-Si before and after hot-stamping process investigated by means of scanning Kelvin probe microscopy. <b>2020</b> , 174, 108811	7
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409	Effect of Laser Beam Offset and Filler Wire on Laser Lap-Fillet Welding of AlSi-Coated 22MnB5 Steel. <b>2020</b> , 73, 2173-2180	0

408	Energy-Economizing Optimization of Magnesium Alloy Hot Stamping Process. <b>2020</b> , 8, 186	6
407	A Fast Identification Method of Yield Strength of Materials Based on Bending Experimental Data. <b>2020</b> , 10, 169	0
406	Nondestructive evaluation of hot stamping boron steel with martensite/bainite mixed microstructures based on magnetic Barkhausen noise detection. <b>2020</b> , 503, 166598	5
405	Processing of X65MoCrWV3-2 Cold Work Tool Steel by Laser Powder Bed Fusion. <b>2020</b> , 91, 1900445	4
404	High temperature deformation behaviors of hot dip 55 wt% Al-Zn coated steel. <b>2020</b> , 511, 145550	8
403	Microstructure Characterization of Reversed Transformation in Cryogenically Rolled 22MnB5. <b>2020</b> , 13,	
402	Tensile-shear fracture behaviour of resistance spot-welded hot stamping sheet steel with AlSi coating. <b>2020</b> , 25, 525-534	4
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400	Direct Observation of the Surface Topography at High Temperature with SEM. <b>2020</b> , 26, 397-402	4
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398	A review on forming technologies of fibre metal laminates. <b>2021</b> , 4, 110-126	13
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392	Design for additive manufacturing (DfAM) of hot stamping dies with improved cooling performance under cyclic loading conditions. <b>2021</b> , 37, 101720	0
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383	Influence of Multi-Step Heating Methods on Properties of AlBi Coating Boron Steel Sheet. <b>2021</b> , 11, 164	1
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374	Phase Composition of Al-Si Coating from the Initial State to the Hot-Stamped Condition. <b>2021</b> , 14,	2
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367	Numerical and Experimental Analysis of Hardening Distortions of Drawpieces Produced in Hot Stamping Process. <b>2021</b> , 11, 457	
366	Study on Microstructure and Numerical Simulation of Tailored Hot Stamping Tools Refabricated by Surfacing Co-Based Alloy. <b>2021</b> , 30, 2732-2741	0
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358	Effect of laser patterning on axial crushing performance of cylindrical 22MnB5 tubes. <b>2021</b> , 262, 113633	2
357	Effects of solid solution and grain-boundary segregation of Mo on hydrogen embrittlement in 32MnB5 hot-stamping steels. <b>2021</b> , 207, 116661	9
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341	A Thermography-based Online Control Method for Press Hardening. <b>2021</b> , 1157, 012010	1
340	Experimental and Numerical Investigations into Magnetic Pulse Welding of Aluminum Alloy 6016 to Hardened Steel 22MnB5. <b>2021</b> , 5, 66	3
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338	Design of thermomechanical treatment of high strength steels. <b>2021</b> , 1161, 012006	
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335	Parameter study on press hardened components with tailored properties. <b>2021</b> , 1157, 012013	
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330	Study on new hot stamping tool with low cost and high cooling efficiency. <b>2021</b> , 1157, 012097	1
329	The influence of coating porosity on friction and wear during hot stamping of AlSi coated ultra-high strength steel. <b>2021</b> , 1157, 012008	1
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315	Investigation of the thermal and tribological performance of localized laser dispersed tool surfaces under hot stamping conditions. <b>2021</b> , 476, 203694	2
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309	Experimental and numerical investigation of forming defects and stress analysis in laser-welded blanks during deep drawing process. <b>2021</b> , 117, 1193	6
308	INVESTIGATION OF METHODS OF HEATING WORKPIECES DURING HOT SHEET STAMPING. <b>2021</b> , 57-60	
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297	Effect of Ni-interlayer on zinc-assisted liquid-metal-induced-embrittlement susceptibility of 22MnB5 galvanized steel. <b>2021</b> , 422, 127550		2
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292	Numerical and experimental studies of AlSi coating microstructure and its fracture at high temperatures. <b>2021</b> , 827, 142067		0
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