



## Facilities List

### INTRODUCTION

East Carolina Metal Treating, also doing business as Virginia Metal Treating, is a commercial heat-treating company that has been in business since 1976. With two locations between North Carolina and Virginia, we use modern equipment and controls to meet present and future requirements of high technology metal treating. We are a certified supplier of automotive, aerospace, and nuclear manufacturers.

Our goal and commitment to our customers is to provide the highest quality, the fastest turnaround, and a competitive price. We specialize in custom processing of all jobs, large or small, and we have the capabilities to perform a wide variety of heat treating services.

We operate 24 hours a day and provide quick turnaround for most orders. Our trucks pick up and deliver daily in many parts of eastern and central North Carolina along with Virginia.

### SERVICES

- ① ISO 9001: 2015, AS9100, Appendix B, Nadcap, and, AQS certified
- ① Quick turnaround
- ① Daily pickup and delivery in many areas
- ① Neutral atmosphere hardening of carbon and alloy steels
- ① Carburize and carbonitride case hardening of low carbon steels
- ① Vacuum bright hardening with high pressure gas quenching of tool steels and stainless steels
- ① Induction hardening, scanning up to 36"
- ① Bright annealing and aging of steel, titanium, and copper alloys in vacuum or protective atmosphere
- ① Hydrogen annealing of magnet iron and other steels
- ① Salt bath hardening with austempering and marquenching
- ① Normalizing, tempering, annealing, stress relieving, and age hardening
- ① Gas nitriding, single and double stage
- ① Ferritic nitrocarburizing, optional black finish
- ① Cryogenic treating
- ① Metallurgical laboratory
- ① Black Oxide coating
- ① Blasting with glass beads and aluminum oxide





**PLANT SIZE (sq. ft.)**

<u>ECMT</u>		<u>VMT</u>	
Production.....	40,000	Production.....	6,700
Office.....	<u>5,000</u>	Office.....	<u>900</u>
Total.....	45,000	Total.....	7,600

**METALLURGICAL LABORATORY AND TESTING EQUIPMENT**

- Struers Discotom-5 automatic cut-off machine
- Struers Discotom-10 automatic cut-off machine
- Struers CitoPress-30 mounting press
- Struers Tegramin-20 polishing machine
- Leica DM ILM metallurgical microscope with digital imaging
- 501 Gordon 5060 Digi-Cal II calibration instrument
- 510 Wilson 4JRBB Rockwell hardness tester, standard scales
- King portable Brinell tester
- 515 King portable Brinell tester
- 516 Wilson 504T Rockwell hardness tester, standard and superficial scales
- 521 Wilson B524-T Series hardness tester, standard and superficial
- 524 Wilson B524-T Series hardness tester, standard and superficial
- 523 Wilson B524-T Series hardness tester, standard and superficial
- 525 Duramin-160z Hardness Tester
- 526 Duramin-160z Hardness Tester
- 848 Mitutoyo HM Microhardness tester, Vickers and Knoop scales
- 849 Duramin-40 AC3 Hardness Tester



**EQUIPMENT LIST**

**\*Coming soon!**

**\*\*All Furnaces listed below are instrument type class D.**

**Working Area** **Class & Temp. Range (F)**

<b>Number</b>	<b>Type</b>	<b>Manufacturer &amp; Model</b>	<b>Working Area</b>	<b>Class &amp; Temp. Range (F)</b>
106	Tempering	Lindberg 121618-EH	12" w x 16" l x 18"H	Class 2 300 – 1200
108	Tempering	Lindberg 152418-E12	15" w x 24" l x 18"H	Class 3 300 – 1200
109	Tempering	Lindberg 243624-E12	24" W x 36" L x 24"H	Class 3 300 – 700
117	Tempering	Wisconsin SDB-6612-12E	36" W x 60" L x 30"H	Class 2 300 – 1250
118	Integral Quench	J.L. Becker 36x48x36 IQ	36" W x 48" L x 36"H 4000 lb. capacity	Class 3 1400 – 1750
119	Tempering	J.L. Becker 36W x 48L x 36H	36" W x 48" L x 36"H 4000 lb. capacity	Class 2 300 – 1250
120	Tempering	J.L. Becker 36W x 48L x 36H	36" W x 48" L x 36"H 4000 lb. capacity	Class 2 300 – 1250
121	Washer	JLB 7802-04	36" W x 48" L x 36"H 4000 lb. capacity	
122	Washer	Surface Combustion	36" W x 48" L x 36"H 4000 lb. capacity	
123	Tempering	Wisconsin Oven SDB-6612-12E	36" W x 60" L x 30"H	Class 2 300 – 1250
124	Tempering	Wisconsin Oven SDB-6612-12E	36" W x 60" L x 30"H	Class 2 300 – 1250
125	Integral Quench	Surface Combustion SDB-446-12E	36" W x 48" L x 36"H 4000 lb. capacity	Class 3 1400 – 1750
126	Integral Quench	Surface Combustion SDB-446-12E	36" W x 48" L x 36"H 4000 lb. capacity	Class 3 1400 – 1750
127	*Integral Quench	Surface Combustion SDB-446-12E	36" W x 48" L x 36"H 4000 lb. capacity	Class 3 1400 – 1750
128	Tempering	Wisconsin SDB-668-12E	36" W x 36"H x 48" D	Class 2 300 – 1250
129	Tempering	Wisconsin SDB-668-12E	36" W x 36"H x 48" D	Class 2 300 – 1250
130	Tempering	Wisconsin SDB-446-12E	24" W x 36" L x 24"H	Class 2 300-1250



<b>131</b>	Tempering	Wisconsin SDB-446-12E	24" W x 36" L x 24"H	Class 2 300-1250
<b>132</b>	Tempering	Wisconsin SDB-446-12E	24" W x 36" L x 24"H	Class 2 300-1250
<b>133</b>	Tempering	Wisconsin SDB-446-12E	24" W x 36" L x 24"H	Class 2 300-1250
<b>134</b>	Tempering	Wisconsin SDB-446-12E	24" W x 36" L x 24"H	Class 2 300-1250
<b>135</b>	Freezer	DMP Cryo Systems 42x54x52x-15HU	36" W x 48" L x 36"H	Class 2 -300 – 0 0 – 1200
<b>201</b>	Vacuum	Abar HR2626	24" W x 36" L x 18"H 1000 lb. capacity	Class 3 900 – 2000
<b>204</b>	Tempering	H2 & N2 Annealing	10" OD x 14" H	Class 5 1350 – 1700
<b>206</b>	Tempering	Lindberg 242418-EHT	24" W x 24" L x 18"H	Class 3 300 – 1100
<b>208</b>	Vacuum	Ipsen Turbo Treater H3636	24" W x 40" L x 24"H 1500 lb. capacity	Class 2 900 – 2200
<b>216</b>	Lindberg	13-243624-ECF	24" W x 36" L x 24"H	Class 3 300 – 1150
<b>217</b>	Vacuum	Ipsen Turbo Treater H3636	24" W x 40" L x 24"H	Class 2 900 – 2200
<b>218</b>	Freezer	DMP Cryo Systems 42x54x52x-15HU	36" W x 48" L x 36"H	Class 2 -300 – 0 0 – 1200
<b>219</b>	Tempering	Lindberg 1216-EH	12" Dia. x 16"H	Class 2 300 – 1100
<b>222</b>	Nitrogen Tempering	Leeds & Northrup 9564-UB-16-2-S	14" Dia. x 17"H	Class 2 300 – 1350
<b>225</b>	Vacuum	Ipsen Turbo Treater H3636	24" W x 40" L x 24"H 1500 lb. Capacity	Class 2 900 – 2200
<b>226</b>	Vacuum	Ipsen Turbo Treater H3636	24" W x 40" L x 24"H 1500 lb. Capacity	Class 2 900 – 2200
<b>227</b>	Tempering	Surface Combustion SDB-658- 12E	36" W x 48" L x 24"H	Class 2 300 – 1250



<b>228</b>	Vacuum	Ipsen Turbo Treater H3636	24" w x 40" l x 24 h 1500 lb. capacity	Class 2 900 – 2200
<b>229</b>	Nitriding Dissociator	Nitrex DA40		
<b>235</b>	Gas Nitrider	Nitrex	36" Dia. x 72"H	Class 2 900 – 1150
<b>236</b>	Gas Nitrider	Nitrex	36" Dia. x 72"H	Class 2 900 – 1150
<b>305</b>	Blast Cabinet	Zero Pulsar III	36" W x 35" L x 36"H	
<b>303</b>	Tumble Blaster	Empire BB4-3K W/CDC-6	3.5 Cu. Ft.	
<b>307</b>	Tumble Blaster	Zero DCM-161	1 Cu. Ft.	
<b>308</b>	Blast Booth	Rodeco Pre-Engineered Blast Booth System	9'-8"W x 14'L x 10'H	
<b>309</b>	Tumble Blaster	Empire Pressure Bead Blast Cabinet	48" D x 48" W x 36" H	
<b>401</b>	Induction	Tocco Power Supply Quantik Verta Scan	100 kw, 10 khz 36" scanner	
<b>402</b>	Induction	Tocco Power Supply Quantik Scan Plus	50 kw, 450 khz 24" scanner	
<b>403</b>	Induction	Cycledyne B-150	15 kw	
<b>404</b>	Induction	Lepel T-15-3-KC-TL	15 kw	
<b>V1001</b>	Black Oxide		36" W x 84" L x 43"H	
<b>V1002</b>	Bead Blast	Zero Pulsar III	36" W x 35" L x 36"H	
<b>V1003</b>	Salt Pot	Ajax Electric HCSE IQCF	18" W x 18" L x 39"H	Class 3 1400 – 1650
<b>V1004</b>	Tempering	Lindberg 306030-E12	30" W x 60" L x 30"H	Class 3 300 – 1250
<b>V1005</b>	Tempering	Lindberg	20" Dia. x 20"H	Class 2 300 - 1200