

METAL BUYER'S QUICK GUIDE

CARBON	ALLOY	ALUMINUM	STAINLESS	NICKEL	TITANIUM	PROCESSING
BARS 1018 1035 1040 1045 1045 TG&P 1045/50 CHROME SHAFTING • CPR – 75 • CPR – 100 • CPR-INDUCTION HARDENED 1117 FATIGUE-PROOF ^{®(1)} STRESSPROOF ^{®(1)} /ASTMA-311 STRESSPROOF ^{®(1)} /G&P/ASTMA-311 1137 1141 11L41 1144 11L44 1144 G&P 1215 ProCut ^{®(2)} 12L14 12L14 12L14 TE, SE NITROSTEEL ^{®(5)} PLATE A36 A572 A-588 A-516 Gr70 Low Carbon Free Machining Clean-Cut ^{®(6)} 1045 Medium Carbon	BARS 4130, E4130 AQ 4130 MOD 4130, NQ&T AP16A 4140, E4140 AQ 4140 LEADED 4140 A193-B7 193 GR.B16 4145 4150 Supercut 150 ^{®(3)} e.t.d. [®] 150 ^{®(1)} 4320, E4320 AQ 4330V 4340, E4340 AQ E4340 VAR AQ 4820 8620, E8620 AQ & BQ 8630 8822 API E3310 BQ E4140 HT Rc 18/22 E4145 MOD E4330V E4330 VAR AQ E4340 300M AQ E6150 AQ E8740 AQ E9310 AQ BQ E9310 VAR E52100 AQ BQ ASTM A485, T1, T2, T3, T4 E52100 VAR Nitriding 135 MOD. AQ SHEET E4130 PLATE 8620 4130 4140/4142 4340 A-514 AR 400	BARS 2011 2017 2024 4032 6020 6061 6063 6262 7075 7068 PLATE MIC 6 ^{®(4)} 2024 2219 3003 5052 5086 5454 6061 7050 7075 SHEET, COIL 3003 5005 5052 2024, BARE & ALCLAD 5086 6061 7075, BARE & ALCLAD TUBING, PIPE 6061 6063 EXTRUSIONS 2014 2024 6061 6063 7050 7075 7150 7178 7249	BARS T-303 T-304L Dual 304/304L T-316L Dual 316/316L T-321 T-347 XM-19 17Cr-4Ni 15Cr-5Ni 13-8 Mo T-410 T-416 T-422 T-440 C SHEET, COIL 15-5 PH 17-4 PH PLATE T-304 T-304 L T-316 T-316L 15-5 17-4 PH PLATE* NICKEL 200 ALLOY 400 ALLOY 600 ALLOY 601 ALLOY 617 ALLOY 625 ALLOY 718 ALLOY C276 ALLOY HX ALLOY K500 ALLOY X-750 ALLOY 800 H/HT ALLOY 825 NICKEL 200 ALLOY 400 ALLOY 600 ALLOY 601 ALLOY 625 ALLOY 718 ALLOY C276 ALLOY 800 H/HT ALLOY HX	SHEET, COIL CP, GRADE 1 CP, GRADE 2 6AL-4V 6AL-2SN-4ZR-2MO COBALT BAR ALLOY 188 ALLOY L605 SHEET ALLOY 188 ALLOY L605 COPPER, BRASS BARS 360 FREE MACHINING 464 NAVAL BRASS 624 AMPCO ^{®(4)} 18 630 AMPCO ^{®(4)} 45 642 655 932 954 TUBE 272 / 274 260 330 C12200 932 TUBING API Coupling Stock DOM 1026/ST52.3 DOM Honed ID and Suitable to Hone HFS 1026/A106 CDS 1026 DOM/CDS 4130 HFS 4130 Q&T HFS 4140/4142 HFS 4140/4142 Q&T HFS 8620 BQ ERW ERW/Seamless Pipe Hydraulic Fluid Line Structural 1018 4130 Mod N 4130 Mod NQ&T 52100BQ	BARS BAND SAWING BORING PRECISION SAWING CENTERLESS GRINDING CHAMFERING FACING AND CENTERING HEAT-TREATING – Q&T ANNEAL NORMAL & STRESS RELIEVED MACHINING ROUGH-TURNING TREPANNING TG&P T&P SHEET CUT-TO-LENGTH LASER CUTTING ROLLER LEVELLING SHEARING PLATE ABRASIVE SAWING ALUMINUM PRECISION SAWING ANNEALING BELT GRINDING BEVELING HIGH DEFINITION PLASMA CUTTING CONICAL BURNING CONTOUR SAWING DOUBLE DISC GRINDING EDGE CONDITIONING FLAME CUTTING FLATTENING FORMING HEAT-TREATING LASER CUTTING MILLING PLATE COLD SAWING PLANING PLASMA-CUTTING PLATE BANDSAWING PRE-HEATING, POST-HEATING RECIPROCAL GRINDING ROTARY GRINDING SHEARING SURFACE GRINDING SHOT BLASTING TWIN MILLING WATER JET CUTTING TUBING CENTERLESS GRINDING HONING BORING LATHE CUTTING SERVICES BAR CODING BRINELL TESTING CONTRACTS COST OF POSSESSION ROCKWELL TESTING DE-MAGNETIZING EDI-ANSI X-12 INVENTORY MANAGEMENT KANBAN KITTING LEAN PROCESS SPECTROGRAPHIC ANALYSIS ULTRASONIC TESTING ROTO-TESTING	



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CALL YOUR NEAREST CASTLE LOCATION

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BR2109-CLV

All The Standard Items... **Plus!!**

Castle Metals® Plate Center of Excellence

Inquiries to: Plate@amcastle.com
Phone - 800.548.5493
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32 – OVERHEAD CRANES, 40 TON CAPACITY

6 – OXYFUEL BURNING MACHINES

5 Machines fitted with 4 - 10 Oxyfuel torches
Cutting capacity
Oxyfuel - .1875" - 24" thick
Multi-view burning or beveling on inquiry
Burn table size (2) 17 feet x 25 foot tables or
(1) 20 foot x 20 foot

SECOND STAGE PLATE PROCESSING PLATE BEVELING MULTI-VIEW COMPOUND CUTTING

PRE-HEAT TABLES

2 – 96 x 250"

2 – HI-DEFINITION PLASMA MACHINES

Cutting capacity
Carbon and Alloy up to 2" thick
Stainless Steel up to 3" thick Edge Start
2 – Hi-Definition Plasma heads 5 axis
CNC contour beveling
Hi-Def Plasma Tolerances
3/16" - 1" (+/- .030)
5 degrees or less edge squareness
Min. ID hole size 3/4" or 1.5 times
thickness of material
Tighter tolerance on inquiry
**PLASMA & FLAME CUT UP TO 20' WIDE
AND OVER 40' LONG**

2 – STANDARD PLASMA MACHINES

2 Plasma heads
Burn table size (2) 17 feet x 25 foot tables
Cutting capacity 1.25" thick

2 – WATER JETS

Machine 1 – 2 heads max 6-1/2" x 120" x 250" table
Machine 2 – 1 head, max 6-1/2" x 78" x 153" table

PLATE SAWS

2 – Plate Band Saws
1 – Cutoff saw
1 – Multi-angle cut-off saw
Cutting capacity - 24" thick x 242" long
Tolerances - +1/16 -0

NEWEST ADDITION 2018 MESSER

2018 Messer heavy burning machine
Cutting capacity
6 torches capable of cutting .25" to 12" thick
1 torch capable of cutting up to 34"
Burn table size 18 foot x 45 foot
Multi-view burning or Beveling on inquiry

THERMAL TREATMENT

1 – Pit furnace 72" deep x 120" wide x 254" long
1 – Pit furnace 72" deep x 120" wide x 192" long
1 – Small furnace 36" deep x 48" wide x 72" long
Daily in house Annealing, Stress Relieving,
Sub-critical Annealing, & Normalizing

700 TON AND 300 TON FLATTENING PRESSES

Capacity - 99" x 240"

GRINDING AND MILLING

Blanchard grinding - 310" swing, 40 ton capacity
Surface grinding - 60" x 88" x 315" 12 ton capacity
Milling - 60" x 114" x 240" with magnetic chuck
3 – 66" rotary grinders
2 – 120" rotary grinders
1 – 140" rotary grinder

PLATE DEMAG

3 – SHOT BLASTERS, 1 LARGE PLATE BLASTER, 1 SMALL PLATE BLASTER, 1 ROTOBLAST CABINET BLASTER

Capacity - 8" max thickness - 96" x 300"

TESTING – NONDESTRUCTIVE

Ultrasonic Testing
Die Penetrant Testing
Magnetic Particle Inspection

20 – BAR SAWS

14 – Production & cut off saws
Cutting capacity - 1/8" dia to 28" dia
6 – Precision Tsune production saws
Cutting capacity - 1/8" dia to 8" dia
Hold tolerance up to +/- .005"

BAR LINE MARKING CHAMFERING DEMAG

Bar Grinding • Quench & Tempering • Destructive Testing • Machining • Welding • Post Weld Machining
Painting • Forming • Rolling • 2nd & 3rd Stage Processing

 **OLIVER**
STEEL PLATE

