

## Capabilities Statement

Formed in 2022, American Marine and Technical Services, LLC, dba American Technical Solutions (AMTS) joined with D&D Machinery and Sales, Inc. (D&D) to form a joint venture establishing AMTS-D&D JV as an Alaska Native Corporation (ANC) 8(a) - Small Disadvantaged Business. AMTS-D&D JV is a certified SBA Mentor-Protégé program participant.

AMTS-D&D JV provides manufacturing solutions, specializing in design, machining, fabrication and assembly of aerospace ground support equipment for the commercial and defense industry. Our team brings nearly 40 years of experience serving the aerospace industry. The AMTS-D&D JV was formed to deliver diverse and comprehensive manufacturing solutions to support the needs of the warfighter. Our subject matter experts bring to bear problem solving techniques you would expect from a large business only we do it with small business agility. Our workforce is comprised of both civilian and former military members who bring institutional knowledge and experience together to produce customer specific, exceptional results.

Our manufacturing facility includes the following equipment and capabilities include:

- 3, 4 and 5 Axis CNC Machining
- CNC Lathe Operations
- Vertical and Horizontal Mills
- 3D Metal Printing
- Metal Cut and Tube Bending
- Vibratory Deburr Cell
- Fabrication and Assembly
- Certified Proof Load Testing
- Mobility/ATP Certified Test Track



**AMTS-D&D JV offers a full-service  
Manufacturing Facility**

As a competent and competitive manufacturer, our diverse manufacturing portfolio includes:

- PT-90-F-509 and PT90-F-511 engine lift trailers.
- TT90-F-509 engine transport trailer and 17G230005-1 Engine Cradle.
- Original Equipment Manufacture of A/E32K-9 Munitions Assembly Conveyor (MAC II).
- Ground support equipment assemblies for the B-1, F-18, F-22, C-17, KC-10, KC-135, C-130 and F-35 weapons systems.
- Depot level maintenance on the C-17 Globemaster III engine change and support equipment for customers world-wide.

## About AMTS

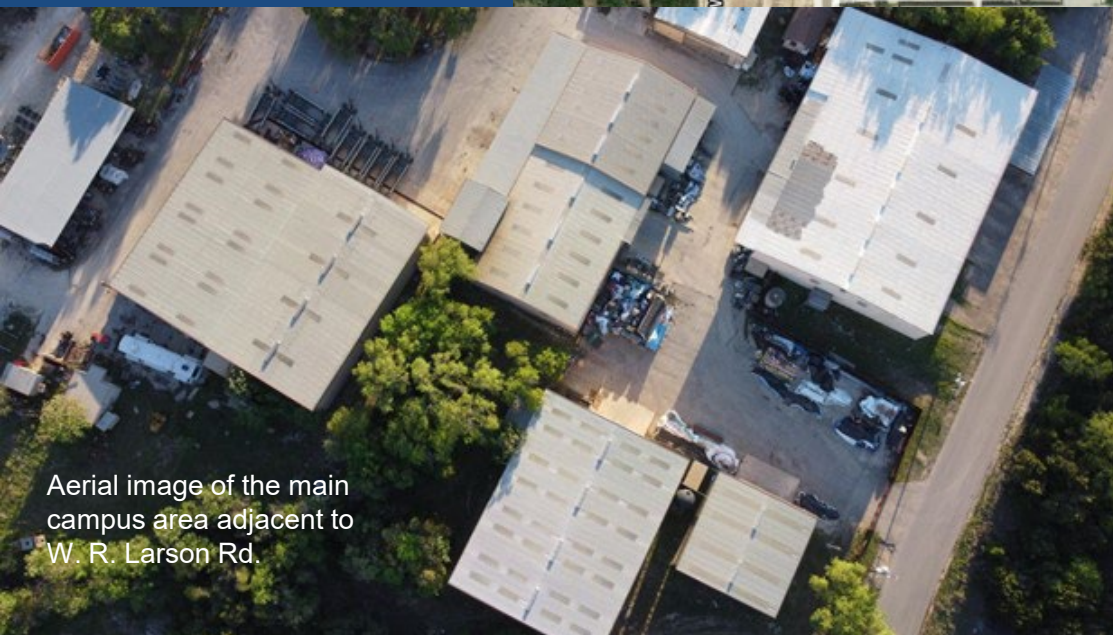
AMTS is a Small Business Administration certified ANC 8(a) graduating in 10/2027 and 51% owner and managing member of the JV. AMTS is a wholly owned subsidiary of Shee Atiká Government Services, headquartered in Sitka, AK. AMTS specializes in manufacturing, air transport support activities, equipment maintenance and repair, and facilities support services.

## About D&D

D&D, established in 1983 and incorporated in 1984, specializes in design, machining, fabrication and assembly of aerospace ground support equipment for commercial and Department of Defense applications. D&D is classified by the SBA as a small, woman-owned business and graduated 8(a) located in San Antonio, TX and D&D is 49% owner of the JV.



The D&D manufacturing operation encompasses 7 production buildings totaling 162,000-ft<sup>2</sup> across 10 acres. We have an additional 50 acres available for expansion.



Aerial image of the main campus area adjacent to W. R. Larson Rd.

This facility can accommodate large tractor-trailers and we maintain a forklift fleet capable of lifting and positioning loads over 60,000 lbs. with nearby crane availability for use when required.

The complex has two access points; one off US Highway 281 and the other off W. R. Larson Rd. We are conveniently located within 15 miles north of the San Antonio airport.

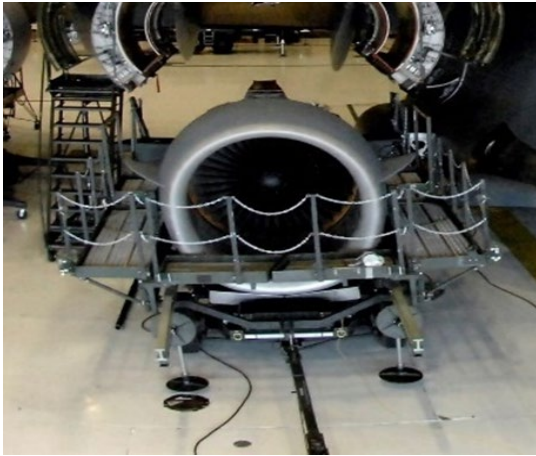


Aerial view of a portion of our buildings looking Southwest showing the additional 50 acres for expansion.



# AMTS-D&D JV Team Experience and Benefits

Our team provides a robust and fully integrated process driven manufacturing facility with turnkey capabilities. Over 90% of our project executions are handled in-house. Our cross-trained skilled craftsmen execute best in class production techniques spanning sheet metal, CNC machining, welding, coating, as well as final assembly. Indirect expertise includes project management, purchasing, expediting, ISO 9001 quality system, production scheduling, shipping/receiving/handling, contracts management, etc. The following projects are representative of the remarkable integrated product team approach we employ to deliver superior support equipment to DoD agencies and commercial Prime Contractors.



## C-17 Globemaster III Engine Positioning Trailers

The company solely manufactures the PT90-F-5XX, Engine Positioning and Lift Trailer as part of the C-17 Globemaster III support equipment. Recent awarded Air Force contracts yielded full scale production of 17 trailers for Warner Robins Air Logistics Center, Robins AFB, GA. The trailer provides for the removal and replacement of the four Pratt and Whitney PW2040 turbofan engines.

### Production notes of interest:

- Instrumental in submitting hundreds of engineering changes ensuring improved operations and longevity
- 29 suppliers executed over 133 Purchase Orders
- 1000+ production work orders executed on a single trailer
- Detailed project management Gant scheduling
- Seamless DCMA quality inspection/approval
- All trailers were fully tested on our certified test track for loads and stress



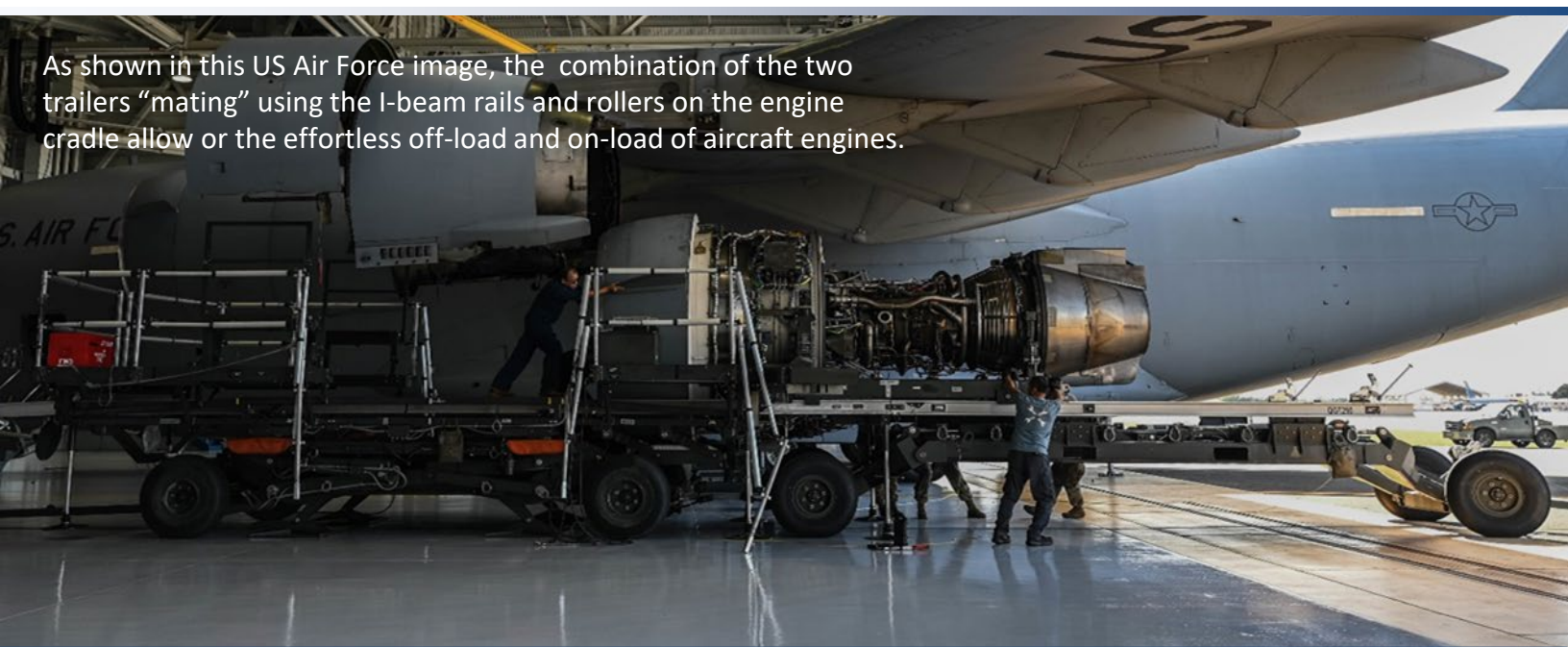
The trailer incorporates a unique hydraulic system managed by sophisticated electronics and “joystick” operations to allow the trailer to perform “5-axis” functions when removing and installing the engines. It includes built-in safety features to ensure no damage can be presented to the engine or aircraft. The trailer package includes work platforms, ladders, auxiliary platforms, and winches to form a complete engine change station. It is adjustable from “tow” height to 150” engine installation height utilizing the joystick controls.



## C-17 Globemaster III Engine Transport Trailer

We are currently in production manufacturing 74 TT90-F-507 Engine Transport Trailers. NSN: 1740-01-525-1884.

This trailer utilizes an electro mechanical hydraulic lift system to mate incorporated I-beam rails to interface with the rollers on the engine cradle. The trailer is adjustable from “tow” height up to 58” with “joystick” leveling through an integrated hydraulic-electrical interface to mate with the rail system on the engine lift trailer.



As shown in this US Air Force image, the combination of the two trailers “mating” using the I-beam rails and rollers on the engine cradle allow for the effortless off-load and on-load of aircraft engines.



## C-17 Globemaster III Engine Cradle

We recently completed US Air Force contract FA8526-19-C-0008 for 94 engine cradles, NSN: 1730-01-250-9737, P/N: 17G230005-1.

This cradle is designed to secure a Pratt and Whitney PW2040 turbofan engine to various ground support trailers for installation, removal and transport. It’s unique design of a “roller system” adapts to the I-beam of both trailers allowing for an “effortless” load and off-load capability of the C-17 engine. Secure locking is incorporated to the engine cradle and transport trailer for ground and air transport of the aircraft engine.

**Certified supplier  
to Boeing, BAE  
and Lockheed-  
Martin**



D&D has manufactured an auxiliary power unit (APU) dolly for the C-17 Globemaster III. This unit is hydraulically/mechanically operated dolly for the removal and installation of the auxiliary power unit on the C-17 Globemaster III aircraft. It’s multi-axis platform allows quick removal, installation, and aligning with the APU on the aircraft.



## The AMTS-D&D JV team is a value-added partner



We perform an Acceptance Test Procedure (ATP) on every trailer and provide complete documentation. The detailed load testing utilizes a simulated engine load and calibrated test equipment

## A/E32K-9 Munitions Assembly Conveyor (MAC II)

The company provided full scale design, development and production of over 120 MAC II units over a period of 13 years.

The MAC II was developed by D&D to meet Joint Direct Attack Munitions (JDAM) requirements to convert “unguided” bombs to all-weather precision-guided munitions. The JDAM utilized a 500 lb. warhead, a wing kit, propulsion module, and guidance kit resulting in a 2000 lb. unit. The previous MAC was not capable of this weight.

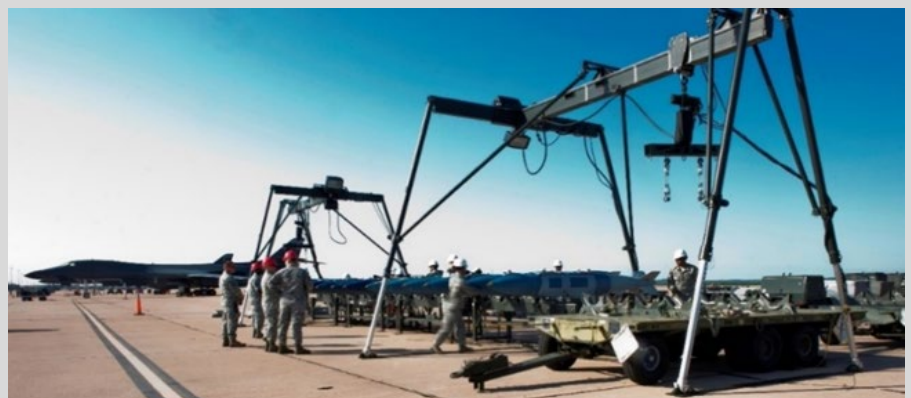
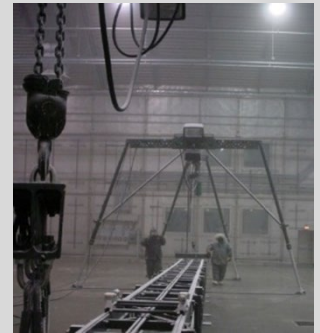
Additional design requirements where:

- Compact and light weight design
- Rapid repair and logistics using commercial parts (COTS)
- Rapid assembly/disassembly
- Fully palatized unit

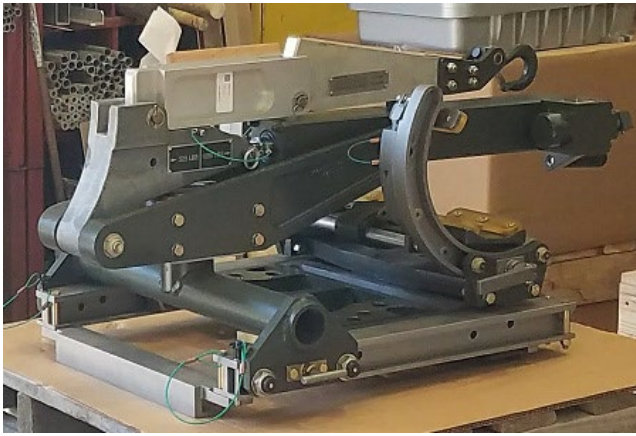
The MAC II was extensively tested and evaluated to meet the following criteria:

- Replacement components that can be purchased commercially.
- Integrated portability and mobility design.
- Extensively load tested to ensure durability.
- Proven field performance through countless assembly/disassembly efforts.
- Environmentally tested/certified at temperatures of +125°F to -25°F.
- Qualified for storage from +140°F to -60°F

Since the MAC II contract award, D&D has maintained the engineering drawings and revised as needed to ensure reliability and sustainability. We work closely with Warner Robins Air Logistics Complex to ensure active military units receive up-to-date support. Additionally, we provide real-time support to operational US Air Force, Guard, and Reserve Units operating the MAC II around the world.







## Missile Munitions Loading Adapter

As part of our munitions support equipment, we manufacture the Missile - Munitions Loading Adapter-ADU-537A/E, NSN: 1730-01-259-4653, PN: 8644425-10. This adapter is designed to support/position weapon components such as the AIM-7, AIM-9, AIM-120 AND AGM-45 missiles onto fighter tactical aircraft. It is used in conjunction with other support equipment such as lift trailers, hydraulic jacks, and the like. It can support a munitions load up to 500 lb. The "One Step" can assist ground crews in the transport and positioning of weapons directly from a storage location to an aircraft wing without transfer to another device.



## First Article Testing and Inspection

The Company has authored and performed many First Article Test Plans as required by customer contracts. We also perform AS9102 First Article Inspection requirements. And as an ISO-9001 Certificated business, we have performed First Article Inspections for Boeing, BAE, Lockheed and Department of Defense agencies.



## Certified Test Track and Load Testing

We have an approved test track which has been certified by Southwest Research Institute (SWRI) in San Antonio, TX. This test track provides us the capability to mobility "stress" test trailers, generator mounts, light-alls, welded assemblies, and other configurations, as well as load tests up to 250,000 lbs. required by Acceptance Test Procedures.

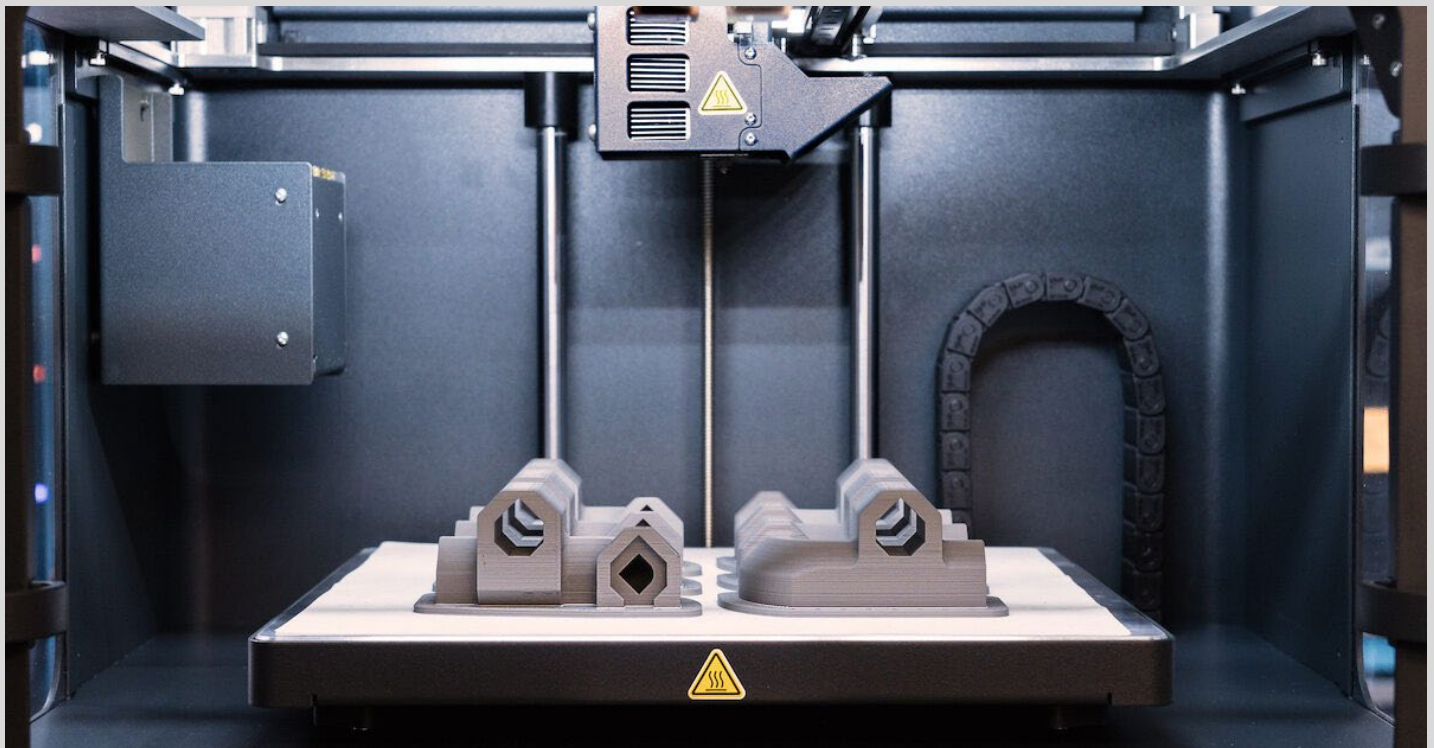




## 3D Metal Printing

The AMTS-D&D JV can perform in-house 3D metal printing, enabling us to print and test multiple variations of a part to quickly optimize designs. With greater design freedom, we can create parts that are unattainable with machining and consolidate large assemblies into fewer parts.

- Metal 3D printing is a laser-based technology that fuses metal particles layer-by-layer. This technology is commonly used for prototyping, production of parts with complex geometries, and end-use parts, as well as for the reduction of metal components in an assembly.
- Without the need for tooling, we can customize and print new and replacement parts on demand, eliminating the need to warehouse thousands of different parts.
- By quickly producing manufacturing tooling like jigs, fixtures and mold inserts, 3D printing enables the AMTS-D&D JV to shorten lead times and cost, allowing us to move quickly from finished design to production.
- Metal 3D printing can be performed using a wide range of metal powders. These include, but are not limited to steel, aluminum, stainless steel, copper, cobalt, tungsten, titanium, and nickel-based alloys.
  - 17-4PH Stainless Steel, a multipurpose steel, is heat-treatable to 36 HRC and possessing 95% wrought strength, enables us to print high-strength, robust metal parts for a wide variety of applications.
  - Inconel 625, a nickel-chromium based superalloy, is extremely resistant to corrosion and strong at high temperatures. Easy to print, it enables the fabrication of functional prototypes and end-use parts designed for use in harsh environments meeting chemical requirements of ASTM B443 and maintains a UTS of 500 MPa at 600 °C.





Shown above is the MHU-141 Munitions Trailer with a M-10 Missile Adapter attached. The M-10 transforms these standard munitions trailer into a capable transport system for the latest arsenal of modern missiles. The company has made numerous M-10s and these trailers in the past.



## Comprehensive Equipment List

EQUIPMENT CATEGORY	DESCRIPTION	EQUIPMENT SPECIFICATIONS
HORIZONTAL MACHINING CENTER	MAZAK MAZATECH FH6800	2 EACH, 4 AXIS, 50 TAPER, X41.3, Y31.5, Z31.5
HORIZONTAL MACHINING CENTER	MAZAK ULTRA 550X	2 EACH, 4 AXIS, 50 TAPER, X25, Y25, Z25
5 AXIS MACHINING CENTER	MAZAK Vortex e-1060V/8	2 EACH, 5 AXIS, 50 TAPER, X73.82, Y41.73, Z52.95
5 AXIS MACHINING CENTER	MAZAK INTEGREX E-1850V/12 II	5 AXIS, 2 PALLET, LARGE CAPACITY MACHINING, X120, Y73, Z71
5 AXIS MACHINING CENTER	MAZAK INTEGREX E-1550V/10 II	5 AXIS, 2 PALLET, LARGE CAPACITY MACHINING, X73, Y61, Z52
4 AXIS VERTICAL MACHINING CENTER	MAZAK MTV 655/60	4 AXIS, 50 TAPER, X59, Y25, Z25
4 AXIS VERTICAL MACHINING CENTER	MAZAK SUPER VELOCITY 2000L/200-II	5 EACH, 4 AXIS HIGH SPEED, X212, Y21, Z20
4 AXIS VERTICAL MACHINING CENTER	MAZAK V515	4 AXIS, 50 TAPER, X41, Y20, Z22
5 AXIS MACHINING CENTER	MAZAK VARIAXIS 630-5X	5 AXIS X24, Y30, Z23
5 AXIS MACHINING CENTER	MAZAK VARIAXIS 630-5X-12 PALLET	12 PALLET, 5 AXIS, X24, Y30, Z23
5 AXIS MACHINING CENTER	MAZAK VARIAXIS 630-5X-8 PALLET	8 PALLET, 5 AXIS, X24, Y30, Z23
4 AXIS VERTICAL MACHINING CENTER	VTC-250D/50	4 AXIS, 50 TAPER, X69.3, Y25, Z25.6
LATHE / MILL	MAZAK NEXUS 250 MS	12 TURRET, DUAL SPINDLE, 14.75 DIA X 21.25 LENGTH
LATHE / MILL	MAZAK NEXUS 250 MSY	12 TURRET, DUAL SPINDLE, 14.75 DIA X 21.25 LENGTH
LATHE / MILL	MAZAK NEXUS 250 MSY	12 TURRET, DUAL SPINDLE, 14.75 DIA X 21.25 LENGTH
LATHE	MAZAK NEXUS 250-II	12 TURRET, 24" DIA X 39 LENGTH
LATHE	MAZAK NEXUS 250-II	12 TURRET, 24" DIA X 39 LENGTH
LATHE	MAZAK NEXUS 350-II	12 TURRET, 16.53 DIA X 78.73 LENGTH
LATHE	MAZAK POWERMASTER	HOLLOW SPINDLE 14.50, 33 DIA X 120 LENGTH
LATHE	MAZAK POWERMASTER M5	8/6 TURRET, 24 DIA X 80 LENGTH
HORIZONTAL SAW	HEMSAW H-105AC	HORIZONTAL 16 X 14 CAPACITY
VERTICAL SAW	HEMSAW V100-LM3	VERITACAL 18 X 22 CAPACITY
SAW	SCOTCHMAN VS 350HT	5.5 RECTB, 4.5RTB, 4.25SQTB CAPACITY
SHEAR	LOG& SHIPLEY	.187 X 6FT
SHEAR	WYSONG SHEAR	12 GA. X 48
BRAKE	ATLANTIC 120 TON BRAKE	120 TON X 10FT
BRAKE	DIARCO 75-10 BRAKE	75 TON X 10 FT
PLASMA	HYPOTHERM POWER MAX 1000	PORTABLE
PLASMA	LINCOLN SPIRIT 275,400 AMP	3 X 72 X 144 CAPACITY
TIMESAVER	TIMESAVER 4131-23-054	MULTI BRUSH & BELT FINISH MACHINE
WELDER	12 EA, MILLER PIPEWORX 400	MIG WELDERS, DUAL GUN & FEEDERS
WELDER	2 EA, MILLER SYNCROWAVE 250	TIG WELDERS
WELDER	4 EA, MILLERMATIC 350P	MIG WELDERS
WHEEL-A-BRATOR	8FT STEEL SHOT WHEEL-A-BRATOR	16000LBS, 8 FT ROTARY TABLE
TUBE BENDER	ECOLINA BENDER	2" CAPACITY



## Depot Level Repair and Maintenance

- We provide depot level repair to The Boeing Company and the Air Force for C-17 positioning and transport trailers.
- 15-year contract with Boeing, San Antonio to maintain, repair, inspect and load test ground support equipment for the F-22, KC-10, KC-135, C-17, E4B and VC25.
- 10-year contract with Lockheed-Martin to maintain, repair, inspect and load test ground support equipment for the F-35.
- Average approximately 5800 work orders and PMIs yearly within the five aircraft programs.

## Why AMTS-D&D JV

- Proven Govcon Contractor with over 40 years of GSE manufacturing experience for DoD and Federal Primes.
- Seasoned Management team with a highly skilled cross-trained work force.
- Extensive capabilities spanning BTP to Design/Development/Test/Full Scale Production.
- Comprehensive understanding and past performance with CSE and PSE.
- Depot Level Repair and Maintenance.
- ISO 9001-2015 Certified:
  - Our manufacturing processes are certified by Smither's Quality Assessments.
  - We hold a current registration to ISO Standard 9001-2015.
- ANC 8(a) contracting advantage - The Government may award sole-source contracts to AMTS-D&D JV for up to \$100M *without* Justification and Approval (J&A) and more than \$100M with J&A, offering an unlimited threshold.



## AMTS-D&D JV Contact Information

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U.S. Small Business  
Administration

## NAICS Codes

- 336413 Other Aircraft Parts and Auxiliary Parts
- 336212 Semi-Trailers Manufacturing
- 332439 Other Metal Container Manufacturing
- 332710 Machine Shops
- 332721 Precision Turned Product Manufacturing
- 332994 Small Arms, Ordnance and Ordnance Accessories
- 333922 Conveyors and Conveying Equipment
- 333924 Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing