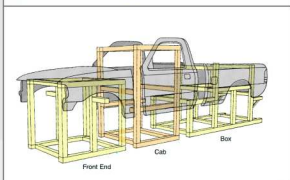
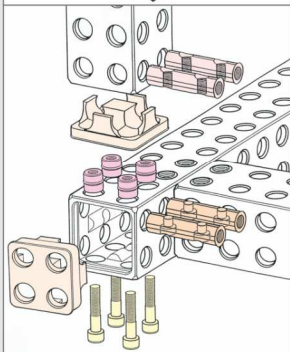
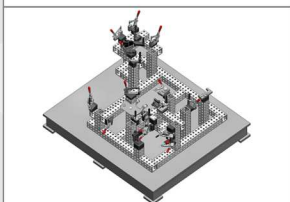
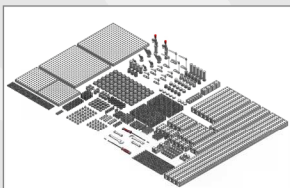


American Modular Tooling

C2
GAUGE & FIXTURE
Precision Modular Measurement & Testing Tools



**DECADES OF
EXPERIENCE**

**PROVEN
FIXTURING
EXCELLENCE**

AMERICAN MADE

C2 **GAUGE & FIXTURE** *American Modular Tooling*

- ⊕ Established in 1991, Paul W. Marino Gages, Inc. is dedicated to providing the finest quality products and professional services to our customers.
- ⊕ In 2018 PWMG created a partnership with C2 Machining in Kentwood Michigan, C2 Gage & Fixture, to sell and manufacture American Modular Tooling as well as design and build fixtures of all types.
- ⊕ Our 5,000 sq. ft. design and 20,000 sq. ft. manufacturing facility, located in Kentwood MI, is home to our sales, design and manufacturing groups and includes a working showroom with demonstration and learning facilities.
- ⊕ Our customer service and sales groups are knowledgeable, professional and ready to assist you.
- ⊕ Our design group are specialists in several fields of design and support all typical file formats.
- ⊕ Our manufacturing and quality groups consist of knee mills, lathes, coordinate measuring systems and all associated equipment required for manufacturing with the future in mind.



C2 Gauge & Fixture, Kentwood Michigan

Widespread Acceptance

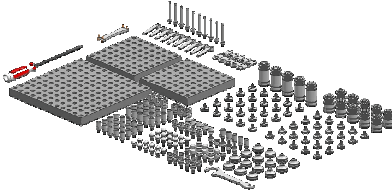
- | | | |
|------------------|-------------------|-----------------|
| ⊕ Aerospace | ⊕ Die Casting | ⊕ Ship Building |
| ⊕ Aircraft | ⊕ Electronics | ⊕ Steel |
| ⊕ Aluminum | ⊕ Instrumentation | ⊕ Tooling |
| ⊕ Automotive | ⊕ Machine Tool | ⊕ And growing |
| ⊕ Communications | ⊕ Medical | |
| ⊕ Defense | ⊕ Plastics | |

American Modular Tooling

The New Manufacturing

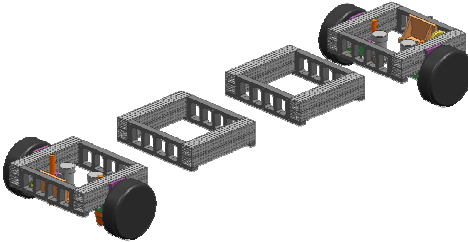
There is a worldwide movement to lean, efficient methods of manufacturing. The U.S. government is currently working with major manufacturers to implement modular, reconfigurable tooling. AMT fulfills the following:

- ⊕ Modular and reconfigurable
- ⊕ Rapid response and deployment
- ⊕ Light weight
- ⊕ Three E's...ecological, ergonomic and economic



AMT Advantages

- ⊕ Fixtures may be built rapidly and modified easily, resulting in immediate savings of time and money.
- ⊕ All components are completely reusable, unlike welded fixtures.
- ⊕ Aluminum is light in weight, resists corrosion and is ecologically sound
- ⊕ Modular elements make it easy to duplicate, or repeat, designs.
- ⊕ Large fixtures, such as body cubes, may be built in sections which can be assembled or dismantled quickly, permitting work at multiple locations.
- ⊕ A fixture may be assembled away from its site of design.



AMT is ideal for:

- | | | |
|---------------------------------------|---|--------------------------------------|
| ⊕ CMM Holding fixtures | ⊕ Checking fixtures, SPC and indicating | ⊕ Vacuum holding fixtures |
| ⊕ Attribute gages | ⊕ Body stacks, cube ups and bucks | ⊕ Multi-part pallet systems for CMMs |
| ⊕ Holding fixtures | ⊕ Armatures | ⊕ Shuttle systems |
| ⊕ Assembly fixtures | ⊕ Interior and exterior bucks | ⊕ Special machined details |
| ⊕ Welding fixtures | ⊕ Jigs and jiggling base plates | ⊕ Standard details |
| ⊕ Hand apply fixtures or gages | ⊕ Universal, multi-part holding devices | ⊕ Check rails, net pads, locators |
| ⊕ Layout fixtures | | ⊕ Clamping systems |
| ⊕ Checking fixtures, flush and feeler | | |

- ⊕ We have included several illustrations and photos of production AMT jobs throughout our catalog — refer to the Photo chapter on pages 139-150 for even more.

American Modular Tooling

Fast parts fixturing, rapid tool development, simplified machining and fast assembly make American Modular Tooling an ideal addition to the worldwide movement for lean, efficient methods of manufacturing. Every element has been designed for maximum efficiency and cross-system adaptability. Components are available individually, in kits or as custom fixtures designed and built per your part print.

Material Properties of AMT Components:

AMT "Construction Grade" Extruded Profiles and Locators

- ⊕ 6061-T6, Temper 6
- ⊕ KSI Tensile: 47,000 PSI
- ⊕ KSI Yield: 40,000 PSI
- ⊕ Hard Coat Anodized
- ⊕ Elongation Factor: 8%

AMT "Professional Grade" Extruded Profiles and Top Elements

- ⊕ 7075-T6, Temper 6
- ⊕ KSI Tensile: 78,000 PSI
- ⊕ KSI Yield: 68,000 PSI
- ⊕ Hard Coat Anodized
- ⊕ Elongation Factor: 6%

AMT "Special Duty" Extruded Profiles.

- ⊕ 6082-T6, Temper 6, Special Blend
- ⊕ KSI Tensile: 45,000 PSI
- ⊕ KSI Yield: 30,000 PSI
- ⊕ Hard Coat Anodized
- ⊕ Elongation Factor: 4.5–5.5%

AMT "Special Duty" Cast Products

- ⊕ 319, 0-T5 Sand Cast
- ⊕ KSI Tensile: 30,000 PSI
- ⊕ KSI Yield: 26,000 PSI
- ⊕ Hard Coat Anodized
- ⊕ Elongation Factor: 1.5%

AMT Connection Elements

- ⊕ 2024-T6
- ⊕ KSI Tensile: 69,000 PSI
- ⊕ KSI Yield: 57,000 PSI
- ⊕ Hard Coat Anodized
- ⊕ Elongation Factor: 10%

Benefits of the American Modular Tooling System

Manufacturing and Engineering:

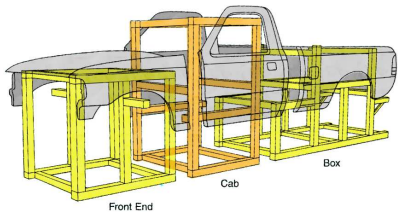
- | | |
|---------------------|--------------|
| ⊕ Facility Usage | 48% Less |
| ⊕ Lead Time | 60% Less |
| ⊕ Tooling Costs | 44% Less |
| ⊕ Tooling Labor | 60% Less |
| ⊕ Tool Design Costs | 50% Less |
| ⊕ Equipment Needs | 70% Less |
| ⊕ Reusable Material | 70% Reusable |

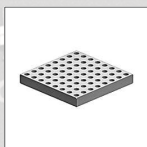
Manufacturing and Assembly:

- | | |
|-----------------------------|-------------|
| ⊕ Assembly Labor | 70% Less |
| ⊕ Through-put Increase | 45% More |
| ⊕ Accuracy of Assemblies | 50% Greater |
| ⊕ Periodic Inspection | 50% Less |
| ⊕ Reconfigurable | Priceless |
| ⊕ Modularity | Priceless |
| ⊕ Rapid Engineering Changes | Priceless |

Other Benefits:

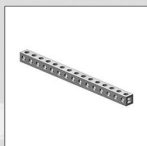
- ⊕ Fewer corrosion problems due to hard coat aluminum
- ⊕ Lower shipping costs due to lighter weight
- ⊕ Faster setup at customers facility
- ⊕ Good ROI on leasing of tool (70% reusable)
- ⊕ Can be used as temporary rate tool
- ⊕ Less space required for storage
- ⊕ Minimal maintenance requirements
- ⊕ Environmentally correct





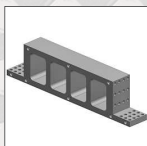
Grid Plates provide the basic structural foundation of almost any fixture.

Pages 7—16



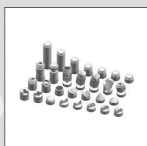
Light weight Hollows feature a channelled interior for high accuracy.

Pages 17—34



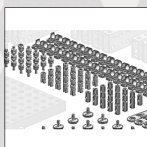
Special duty supports, gussets and foot plates provide added strength.

Pages 35—42



Locating and Clamping Elements hold and locate parts of many shapes and sizes.

Pages 43—72



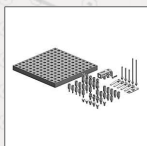
Connection Elements permit rapid assembly of fixtures.

Pages 73—86



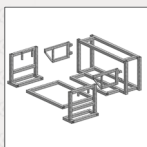
Tools and Storage Cabinets

Pages 87—92



Kits are designed to accommodate all varieties of fixturing requirements.

Pages 93—124



Studio Tools

Pages 125—138



Photos

Pages 139—150

American Modular Tooling

Testimonial of the Year:

Modular Tooling Reduces Fixturing Costs, Allows Conversion From One Make to Another.

"It's easy to learn, but there is so much there that you have to sort through it. Once you know what everything does, it's like working with one of those Erector® sets you had when you were a kid. It's very, very user friendly."

Bill Ralph, Quality Metalcraft, Inc.



"I would recommend it to anybody. You are better off sticking with the people who know what to do with it."

Two sided modular tool converted for reuse after its initial run for a different manufacturer.

"If it's going to cost us a measly \$3,000.00 to build a, say, \$100,000.00 fixture...we want to do it."

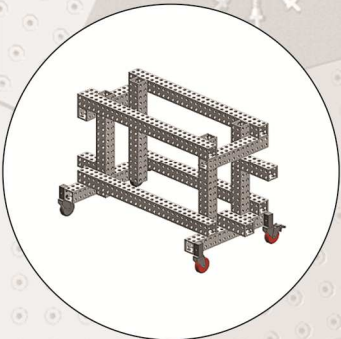
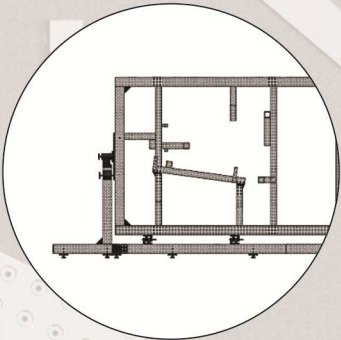
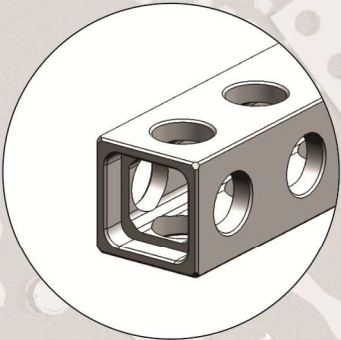


A close-up view showing a three-axis adjustable locating element holding a door in body position.

"It's part of our system now, they are definitely going to use it on the next big project. It should last for years."

Read the entire article in Quality Magazine, 2008 or online at www.qualitymag.com.

See more on our website, pmargage.com



Grid Plates

Hollows

Special Duty

Locating & Clamping

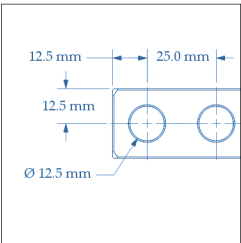
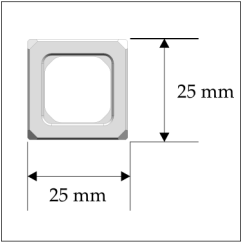
Connection Elements

Tools & Storage

Fixturing Kits

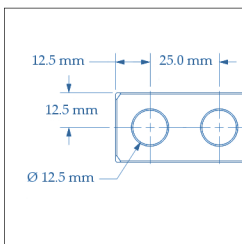
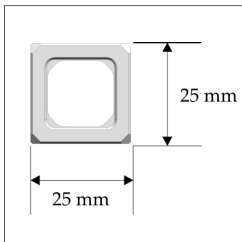
Studio Tools

Photos



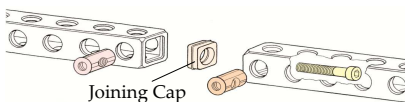
- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 25 features machine finished Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

Commercial Grade	Professional Grade	Dimensions, mm
AMT-09106	AMT-19106	25 x 25 x 50
AMT-09107	AMT-19107	25 x 25 x 75
AMT-09108	AMT-19108	25 x 25 x 100
AMT-09109	AMT-19109	25 x 25 x 125
AMT-09110	AMT-19110	25 x 25 x 150
AMT-09111	AMT-19111	25 x 25 x 175
AMT-09112	AMT-19112	25 x 25 x 200
AMT-09113	AMT-19113	25 x 25 x 225
AMT-09114	AMT-19114	25 x 25 x 250
AMT-09115	AMT-19115	25 x 25 x 275
AMT-09116	AMT-19116	25 x 25 x 300
AMT-09117	AMT-19117	25 x 25 x 325
AMT-09118	AMT-19118	25 x 25 x 350
AMT-09119	AMT-19119	25 x 25 x 375
AMT-09120	AMT-19120	25 x 25 x 400
AMT-09121	AMT-19121	25 x 25 x 425
AMT-09122	AMT-19122	25 x 25 x 450
AMT-09123	AMT-19123	25 x 25 x 475
AMT-09124	AMT-19124	25 x 25 x 500
AMT-09124	AMT-19125	25 x 25 x 525
AMT-09126	AMT-19126	25 x 25 x 550
AMT-09127	AMT-19127	25 x 25 x 575
AMT-09128	AMT-19128	25 x 25 x 600
AMT-09129	AMT-19129	25 x 25 x 625
AMT-09130	AMT-19130	25 x 25 x 650
AMT-09131	AMT-19131	25 x 25 x 675
AMT-09132	AMT-19132	25 x 25 x 700
AMT-09133	AMT-19133	25 x 25 x 725
AMT-09134	AMT-19134	25 x 25 x 750
AMT-09135	AMT-19135	25 x 25 x 775

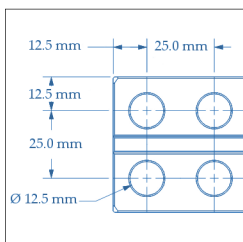
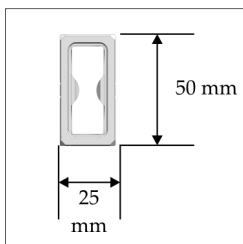
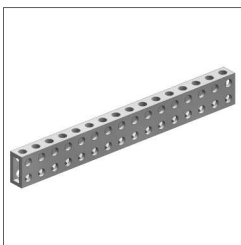


- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 25 features
machine finished
Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

Commercial Grade	Professional Grade	Dimensions, mm
AMT-09136	AMT-19136	25 x 25 x 800
AMT-09137	AMT-19137	25 x 25 x 825
AMT-09138	AMT-19138	25 x 25 x 850
AMT-09139	AMT-19139	25 x 25 x 875
AMT-09140	AMT-19140	25 x 25 x 900
AMT-09141	AMT-19141	25 x 25 x 925
AMT-09142	AMT-19142	25 x 25 x 950
AMT-09143	AMT-19143	25 x 25 x 975
AMT-09144	AMT-19144	25 x 25 x 1000
AMT-09145	AMT-19145	25 x 25 x 1025
AMT-09146	AMT-19146	25 x 25 x 1050
AMT-09147	AMT-19147	25 x 25 x 1075
AMT-09148	AMT-19148	25 x 25 x 1100
AMT-09149	AMT-19149	25 x 25 x 1125
AMT-09150	AMT-19150	25 x 25 x 1150
AMT-09151	AMT-19151	25 x 25 x 1175
AMT-09152	AMT-19152	25 x 25 x 1200
AMT-09153	AMT-19153	25 x 25 x 1225
AMT-09154	AMT-19154	25 x 25 x 1250
AMT-09155	AMT-19155	25 x 25 x 1275
AMT-09156	AMT-19156	25 x 25 x 1300
AMT-09157	AMT-19157	25 x 25 x 1325
AMT-09158	AMT-19158	25 x 25 x 1350
AMT-09159	AMT-19159	25 x 25 x 1375
AMT-09160	AMT-19160	25 x 25 x 1400
AMT-09161	AMT-19161	25 x 25 x 1425
AMT-09162	AMT-19162	25 x 25 x 1450
AMT-09163	AMT-19163	25 x 25 x 1475
AMT-09164	AMT-19164	25 x 25 x 1500

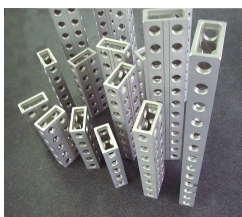
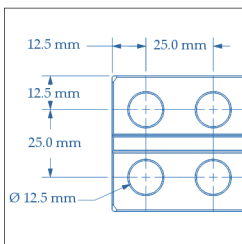
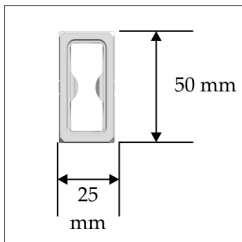
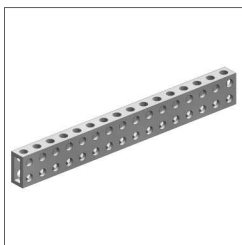


Use Joining Caps to
connect Hollows and
make longer lengths.
See page 85.

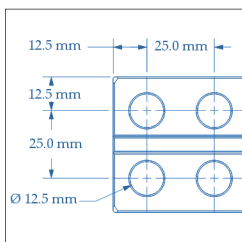
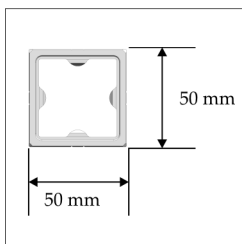
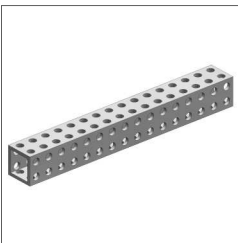


- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 25 features machine finished Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

Commercial Grade	Professional Grade	Dimensions, mm
AMT-09206	AMT-19206	25 x 50 x 50
AMT-09207	AMT-19207	25 x 50 x 75
AMT-09208	AMT-19208	25 x 50 x 100
AMT-09209	AMT-19209	25 x 50 x 125
AMT-09210	AMT-19210	25 x 50 x 150
AMT-09211	AMT-19211	25 x 50 x 175
AMT-09212	AMT-19212	25 x 50 x 200
AMT-09213	AMT-19213	25 x 50 x 225
AMT-09214	AMT-19214	25 x 50 x 250
AMT-09215	AMT-19215	25 x 50 x 275
AMT-09216	AMT-19216	25 x 50 x 300
AMT-09217	AMT-19217	25 x 50 x 325
AMT-09218	AMT-19218	25 x 50 x 350
AMT-09219	AMT-19219	25 x 50 x 375
AMT-09220	AMT-19220	25 x 50 x 400
AMT-09221	AMT-19221	25 x 50 x 425
AMT-09222	AMT-19222	25 x 50 x 450
AMT-09223	AMT-19223	25 x 50 x 475
AMT-09224	AMT-19224	25 x 50 x 500
AMT-09225	AMT-19225	25 x 50 x 525
AMT-09226	AMT-19226	25 x 50 x 550
AMT-09227	AMT-19227	25 x 50 x 575
AMT-09228	AMT-19228	25 x 50 x 600
AMT-09229	AMT-19229	25 x 50 x 625
AMT-09230	AMT-19230	25 x 50 x 650
AMT-09231	AMT-19231	25 x 50 x 675
AMT-09232	AMT-19232	25 x 50 x 700
AMT-09233	AMT-19233	25 x 50 x 725
AMT-09234	AMT-19234	25 x 50 x 750
AMT-09235	AMT-19235	25 x 50 x 775

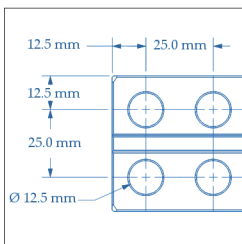
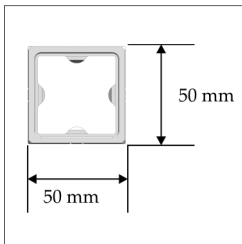
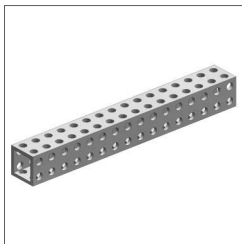


Commercial Grade	Professional Grade	Dimensions, mm
AMT-09236	AMT-19236	25 x 50 x 800
AMT-09237	AMT-19237	25 x 50 x 825
AMT-09238	AMT-19238	25 x 50 x 850
AMT-09239	AMT-19239	25 x 50 x 875
AMT-09240	AMT-19240	25 x 50 x 900
AMT-09241	AMT-19241	25 x 50 x 925
AMT-09242	AMT-19242	25 x 50 x 950
AMT-09243	AMT-19243	25 x 50 x 975
AMT-09244	AMT-19244	25 x 50 x 1000
AMT-09245	AMT-19245	25 x 50 x 1025
AMT-09246	AMT-19246	25 x 50 x 1050
AMT-09247	AMT-19247	25 x 50 x 1075
AMT-09248	AMT-19248	25 x 50 x 1100
AMT-09249	AMT-19249	25 x 50 x 1125
AMT-09250	AMT-19250	25 x 50 x 1150
AMT-09251	AMT-19251	25 x 50 x 1175
AMT-09252	AMT-19252	25 x 50 x 1200
AMT-09253	AMT-19253	25 x 50 x 1225
AMT-09254	AMT-19254	25 x 50 x 1250
AMT-09255	AMT-19255	25 x 50 x 1275
AMT-09256	AMT-19256	25 x 50 x 1300
AMT-09257	AMT-19257	25 x 50 x 1325
AMT-09258	AMT-19258	25 x 50 x 1350
AMT-09259	AMT-19259	25 x 50 x 1375
AMT-09260	AMT-19260	25 x 50 x 1400
AMT-09261	AMT-19261	25 x 50 x 1425
AMT-09262	AMT-19262	25 x 50 x 1450
AMT-09263	AMT-19263	25 x 50 x 1475
AMT-09264	AMT-19264	25 x 50 x 1500



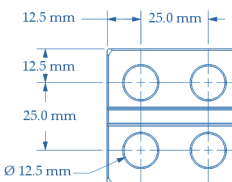
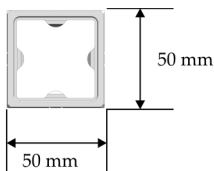
- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 25 features machine finished Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

Commercial Grade	Professional Grade	Dimensions, mm
AMT-09306	AMT-19306	50 x 50 x 50
AMT-09307	AMT-19307	50 x 50 x 75
AMT-09308	AMT-19308	50 x 50 x 100
AMT-09309	AMT-19309	50 x 50 x 125
AMT-09310	AMT-19310	50 x 50 x 150
AMT-09311	AMT-19311	50 x 50 x 175
AMT-09312	AMT-19312	50 x 50 x 200
AMT-09313	AMT-19313	50 x 50 x 225
AMT-09314	AMT-19314	50 x 50 x 250
AMT-09315	AMT-19315	50 x 50 x 275
AMT-09316	AMT-19316	50 x 50 x 300
AMT-09317	AMT-19317	50 x 50 x 325
AMT-09318	AMT-19318	50 x 50 x 350
AMT-09319	AMT-19319	50 x 50 x 375
AMT-09320	AMT-19320	50 x 50 x 400
AMT-09321	AMT-19321	50 x 50 x 425
AMT-09322	AMT-19322	50 x 50 x 450
AMT-09323	AMT-19323	50 x 50 x 475
AMT-09324	AMT-19324	50 x 50 x 500
AMT-09325	AMT-19325	50 x 50 x 525
AMT-09326	AMT-19326	50 x 50 x 550
AMT-09327	AMT-19327	50 x 50 x 575
AMT-09328	AMT-19328	50 x 50 x 600
AMT-09329	AMT-19329	50 x 50 x 625
AMT-09330	AMT-19330	50 x 50 x 650
AMT-09331	AMT-19331	50 x 50 x 675
AMT-09332	AMT-19332	50 x 50 x 700
AMT-09333	AMT-19333	50 x 50 x 725
AMT-09334	AMT-19334	50 x 50 x 750
AMT-09335	AMT-19335	50 x 50 x 775



- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 25 features
machine finished
Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

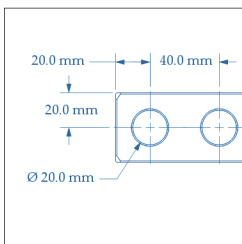
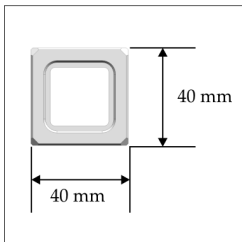
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09336	AMT-19336	50 x 50 x 800
AMT-09337	AMT-19337	50 x 50 x 825
AMT-09338	AMT-19338	50 x 50 x 850
AMT-09339	AMT-19339	50 x 50 x 875
AMT-09340	AMT-19340	50 x 50 x 900
AMT-09341	AMT-19341	50 x 50 x 925
AMT-09342	AMT-19342	50 x 50 x 950
AMT-09343	AMT-19343	50 x 50 x 975
AMT-09344	AMT-19344	50 x 50 x 1000
AMT-09345	AMT-19345	50 x 50 x 1025
AMT-09346	AMT-19346	50 x 50 x 1050
AMT-09347	AMT-19347	50 x 50 x 1075
AMT-09348	AMT-19348	50 x 50 x 1100
AMT-09349	AMT-19349	50 x 50 x 1125
AMT-09350	AMT-19350	50 x 50 x 1150
AMT-09351	AMT-19351	50 x 50 x 1175
AMT-09352	AMT-19352	50 x 50 x 1200
AMT-09353	AMT-19353	50 x 50 x 1225
AMT-09354	AMT-19354	50 x 50 x 1250
AMT-09355	AMT-19355	50 x 50 x 1275
AMT-09356	AMT-19356	50 x 50 x 1300
AMT-09357	AMT-19357	50 x 50 x 1325
AMT-09358	AMT-19358	50 x 50 x 1350
AMT-09359	AMT-19359	50 x 50 x 1375
AMT-09360	AMT-19360	50 x 50 x 1400
AMT-09361	AMT-19361	50 x 50 x 1425
AMT-09362	AMT-19362	50 x 50 x 1450
AMT-09363	AMT-19363	50 x 50 x 1475
AMT-09364	AMT-19364	50 x 50 x 1500
AMT-09365	AMT-19365	50 x 50 x 1525



- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 25 features machine finished Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

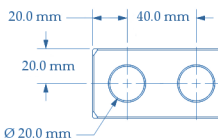
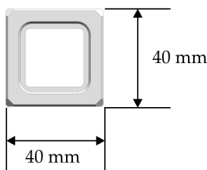
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09366	AMT-19366	50 x 50 x 1550
AMT-09367	AMT-19367	50 x 50 x 1575
AMT-09368	AMT-19368	50 x 50 x 1600
AMT-09369	AMT-19369	50 x 50 x 1625
AMT-09370	AMT-19370	50 x 50 x 1650
AMT-09371	AMT-19371	50 x 50 x 1675
AMT-09372	AMT-19372	50 x 50 x 1700
AMT-09373	AMT-19373	50 x 50 x 1725
AMT-09374	AMT-19374	50 x 50 x 1750
AMT-09375	AMT-19375	50 x 50 x 1775
AMT-09376	AMT-19376	50 x 50 x 1800
AMT-09377	AMT-19377	50 x 50 x 1825
AMT-09378	AMT-19378	50 x 50 x 1850
AMT-09379	AMT-19379	50 x 50 x 1875
AMT-09380	AMT-19380	50 x 50 x 1900
AMT-09381	AMT-19381	50 x 50 x 1925
AMT-09382	AMT-19382	50 x 50 x 1950
AMT-09383	AMT-19383	50 x 50 x 1975
AMT-09384	AMT-19384	50 x 50 x 2000





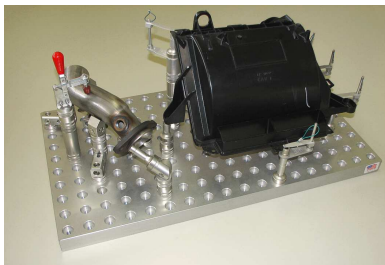
- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 40 features
machine finished
Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

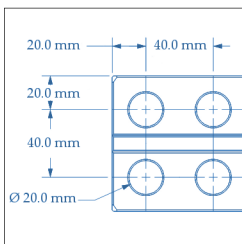
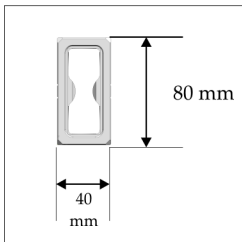
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09406	AMT-19406	40 x 40 x 80
AMT-09407	AMT-19407	40 x 40 x 120
AMT-09408	AMT-19408	40 x 40 x 160
AMT-09409	AMT-19409	40 x 40 x 200
AMT-09410	AMT-19410	40 x 40 x 240
AMT-09411	AMT-19411	40 x 40 x 280
AMT-09412	AMT-19412	40 x 40 x 320
AMT-09413	AMT-19413	40 x 40 x 360
AMT-09414	AMT-19414	40 x 40 x 400
AMT-09415	AMT-19415	40 x 40 x 440
AMT-09416	AMT-19416	40 x 40 x 480
AMT-09417	AMT-19417	40 x 40 x 520
AMT-09418	AMT-19418	40 x 40 x 560
AMT-09419	AMT-19419	40 x 40 x 600
AMT-09420	AMT-19420	40 x 40 x 640
AMT-09421	AMT-19421	40 x 40 x 680
AMT-09422	AMT-19422	40 x 40 x 720
AMT-09423	AMT-19423	40 x 40 x 760
AMT-09424	AMT-19424	40 x 40 x 800
AMT-09425	AMT-19425	40 x 40 x 840
AMT-09426	AMT-19426	40 x 40 x 880
AMT-09427	AMT-19427	40 x 40 x 920
AMT-09428	AMT-19428	40 x 40 x 960
AMT-09429	AMT-19429	40 x 40 x 1000
AMT-09430	AMT-19430	40 x 40 x 1040
AMT-09431	AMT-19431	40 x 40 x 1080
AMT-09432	AMT-19432	40 x 40 x 1120
AMT-09433	AMT-19433	40 x 40 x 1160
AMT-09434	AMT-19434	40 x 40 x 1200
AMT-09435	AMT-19435	40 x 40 x 1240



- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 40 features machine finished Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

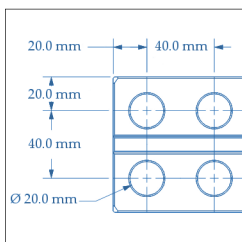
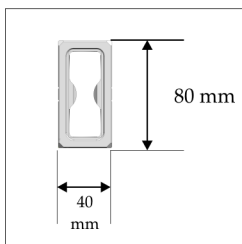
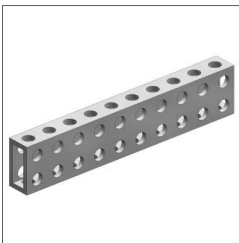
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09436	AMT-19436	40 x 40 x 1280
AMT-09437	AMT-19437	40 x 40 x 1320
AMT-09438	AMT-19438	40 x 40 x 1360
AMT-09439	AMT-19439	40 x 40 x 1400
AMT-09440	AMT-19440	40 x 40 x 1440
AMT-09441	AMT-19441	40 x 40 x 1480
AMT-09442	AMT-19442	40 x 40 x 1520
AMT-09443	AMT-19443	40 x 40 x 1560
AMT-09444	AMT-19444	40 x 40 x 1600
AMT-09445	AMT-19445	40 x 40 x 1640
AMT-09446	AMT-19446	40 x 40 x 1680
AMT-09447	AMT-19447	40 x 40 x 1720
AMT-09448	AMT-19448	40 x 40 x 1760
AMT-09449	AMT-19449	40 x 40 x 1800
AMT-09450	AMT-19450	40 x 40 x 1840
AMT-09451	AMT-19451	40 x 40 x 1880
AMT-09452	AMT-19452	40 x 40 x 1920
AMT-09453	AMT-19453	40 x 40 x 1960
AMT-09454	AMT-19454	40 x 40 x 2000





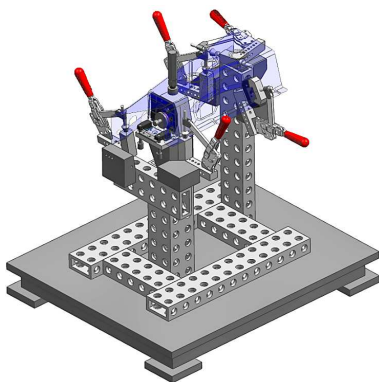
- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 40 features
machine finished
Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

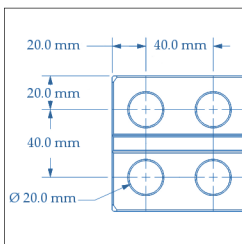
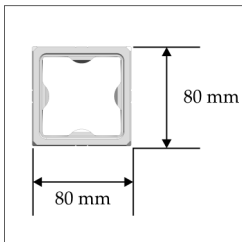
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09506	AMT-19506	40 x 80 x 80
AMT-09507	AMT-19507	40 x 80 x 120
AMT-09508	AMT-19508	40 x 80 x 160
AMT-09509	AMT-19509	40 x 80 x 200
AMT-09510	AMT-19510	40 x 80 x 240
AMT-09511	AMT-19511	40 x 80 x 280
AMT-09512	AMT-19512	40 x 80 x 320
AMT-09513	AMT-19513	40 x 80 x 360
AMT-09514	AMT-19514	40 x 80 x 400
AMT-09515	AMT-19515	40 x 80 x 440
AMT-09516	AMT-19516	40 x 80 x 480
AMT-09517	AMT-19517	40 x 80 x 520
AMT-09518	AMT-19518	40 x 80 x 560
AMT-09519	AMT-19519	40 x 80 x 600
AMT-09520	AMT-19520	40 x 80 x 640
AMT-09521	AMT-19521	40 x 80 x 680
AMT-09522	AMT-19522	40 x 80 x 720
AMT-09523	AMT-19523	40 x 80 x 760
AMT-09524	AMT-19524	40 x 80 x 800
AMT-09525	AMT-19525	40 x 80 x 840
AMT-09526	AMT-19526	40 x 80 x 880
AMT-09527	AMT-19527	40 x 80 x 920
AMT-09528	AMT-19528	40 x 80 x 960
AMT-09529	AMT-19529	40 x 80 x 1000
AMT-09530	AMT-19530	40 x 80 x 1040
AMT-09531	AMT-19531	40 x 80 x 1080
AMT-09532	AMT-19532	40 x 80 x 1120
AMT-09533	AMT-19533	40 x 80 x 1160
AMT-09534	AMT-19534	40 x 80 x 1200
AMT-09535	AMT-19535	40 x 80 x 1240



- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 40 features machine finished Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

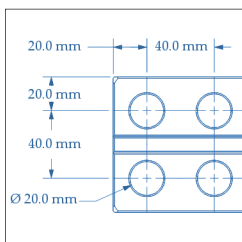
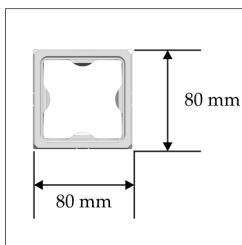
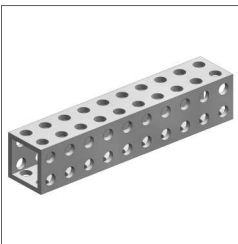
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09536	AMT-19536	40 x 80 x 1280
AMT-09537	AMT-19537	40 x 80 x 1320
AMT-09538	AMT-19538	40 x 80 x 1360
AMT-09539	AMT-19539	40 x 80 x 1400
AMT-09540	AMT-19540	40 x 80 x 1440
AMT-09541	AMT-19541	40 x 80 x 1480
AMT-09542	AMT-19542	40 x 80 x 1520
AMT-09543	AMT-19543	40 x 80 x 1560
AMT-09544	AMT-19544	40 x 80 x 1600
AMT-09545	AMT-19545	40 x 80 x 1640
AMT-09546	AMT-19546	40 x 80 x 1680
AMT-09547	AMT-19547	40 x 80 x 1720
AMT-09548	AMT-19548	40 x 80 x 1760
AMT-09549	AMT-19549	40 x 80 x 1800
AMT-09550	AMT-19550	40 x 80 x 1840
AMT-09551	AMT-19551	40 x 80 x 1880
AMT-09552	AMT-19552	40 x 80 x 1920
AMT-09553	AMT-19553	40 x 80 x 1960
AMT-09554	AMT-19554	40 x 80 x 2000



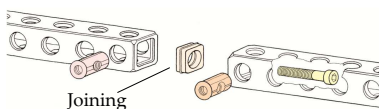


- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 40 features
machine finished
Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

Commercial Grade	Professional Grade	Dimensions, mm
AMT-09706	AMT-19706	80 x 80 x 80
AMT-09707	AMT-19707	80 x 80 x 120
AMT-09708	AMT-19708	80 x 80 x 160
AMT-09709	AMT-19709	80 x 80 x 200
AMT-09710	AMT-19710	80 x 80 x 240
AMT-09711	AMT-19711	80 x 80 x 280
AMT-09712	AMT-19712	80 x 80 x 320
AMT-09713	AMT-19713	80 x 80 x 360
AMT-09714	AMT-19714	80 x 80 x 400
AMT-09715	AMT-19715	80 x 80 x 440
AMT-09716	AMT-19716	80 x 80 x 480
AMT-09717	AMT-19717	80 x 80 x 520
AMT-09718	AMT-19718	80 x 80 x 560
AMT-09719	AMT-19719	80 x 80 x 600
AMT-09720	AMT-19720	80 x 80 x 640
AMT-09721	AMT-19721	80 x 80 x 680
AMT-09722	AMT-19722	80 x 80 x 720
AMT-09723	AMT-19723	80 x 80 x 760
AMT-09724	AMT-19724	80 x 80 x 800
AMT-09725	AMT-19725	80 x 80 x 840
AMT-09726	AMT-19726	80 x 80 x 880
AMT-09727	AMT-19727	80 x 80 x 920
AMT-09728	AMT-19728	80 x 80 x 960
AMT-09729	AMT-19729	80 x 80 x 1000
AMT-09730	AMT-19730	80 x 80 x 1040
AMT-09731	AMT-19731	80 x 80 x 1080
AMT-09732	AMT-19732	80 x 80 x 1120
AMT-09733	AMT-19733	80 x 80 x 1160
AMT-09734	AMT-19734	80 x 80 x 1200
AMT-09735	AMT-19735	80 x 80 x 1240

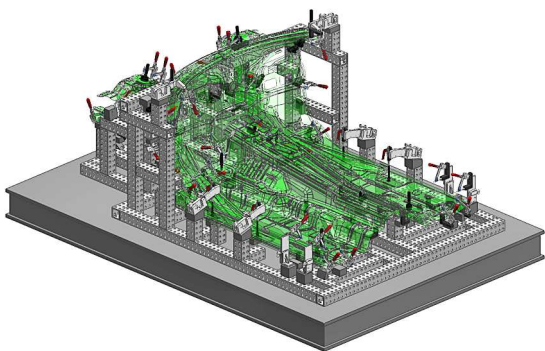


- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 40 features machine finished Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

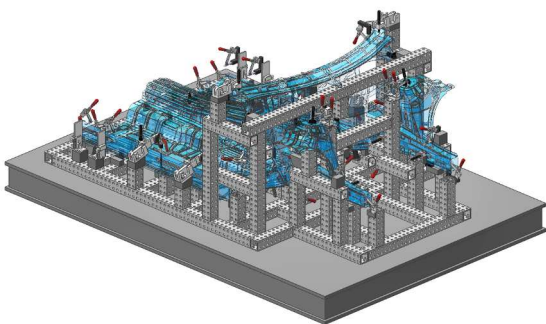


Commercial Grade	Professional Grade	Dimensions, mm
AMT-09736	AMT-19736	80 x 80 x 1280
AMT-09737	AMT-19737	80 x 80 x 1320
AMT-09738	AMT-19738	80 x 80 x 1360
AMT-09739	AMT-19739	80 x 80 x 1400
AMT-09740	AMT-19740	80 x 80 x 1440
AMT-09741	AMT-19741	80 x 80 x 1480
AMT-09742	AMT-19742	80 x 80 x 1520
AMT-09743	AMT-19743	80 x 80 x 1560
AMT-09744	AMT-19744	80 x 80 x 1600
AMT-09745	AMT-19745	80 x 80 x 1640
AMT-09746	AMT-19746	80 x 80 x 1680
AMT-09747	AMT-19747	80 x 80 x 1720
AMT-09748	AMT-19748	80 x 80 x 1760
AMT-09749	AMT-19749	80 x 80 x 1800
AMT-09750	AMT-19750	80 x 80 x 1840
AMT-09751	AMT-19751	80 x 80 x 1880
AMT-09752	AMT-19752	80 x 80 x 1920
AMT-09753	AMT-19753	80 x 80 x 1960
AMT-09754	AMT-19754	80 x 80 x 2000
AMT-09755	AMT-19755	80 x 80 x 2040
AMT-09756	AMT-19756	80 x 80 x 2080
AMT-09757	AMT-19757	80 x 80 x 2120
AMT-09758	AMT-19758	80 x 80 x 2160
AMT-09759	AMT-19759	80 x 80 x 2200
AMT-09760	AMT-19760	80 x 80 x 2240
AMT-09761	AMT-19761	80 x 80 x 2280
AMT-09762	AMT-19762	80 x 80 x 2320
AMT-09763	AMT-19763	80 x 80 x 2360
AMT-09764	AMT-19764	80 x 80 x 2400

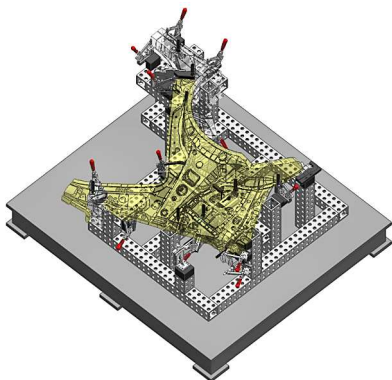
Use Joining Caps to connect Hollows and make longer lengths. See page 85.



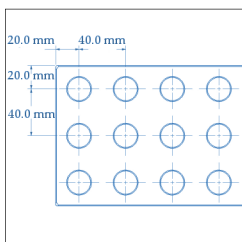
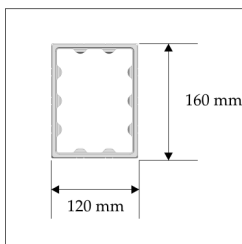
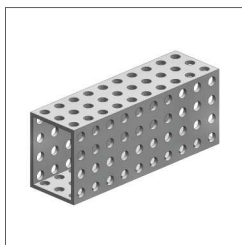
Match check tool, underbody and dash (above and below)



Be creative...think modular.

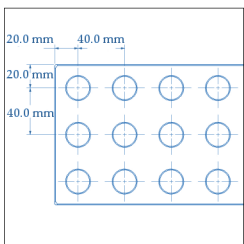
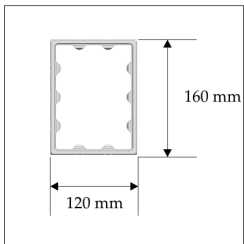
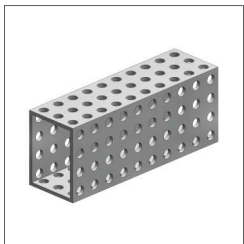


Wheelhouse tool



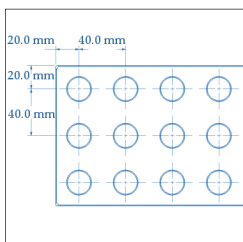
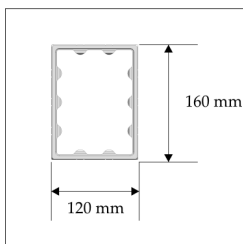
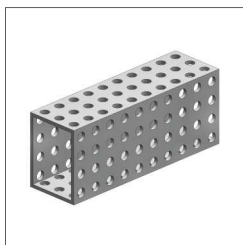
- ⊕ AMT aluminum Hollows
- ⊕ Special Duty Hollows feature a specially blended aluminum alloy.
- ⊕ KSI Tensile: 45,000 PSI
- ⊕ KSI Yield: 30,000 PSI
- ⊕ Hard Coat Anodize
- ⊕ Elongation Factor: 4.5—5.5%

Special Duty	Dimensions, mm
AMT-19906	120 x 160 x 80
AMT-19907	120 x 160 x 120
AMT-19908	120 x 160 x 160
AMT-19909	120 x 160 x 200
AMT-19910	120 x 160 x 240
AMT-19911	120 x 160 x 280
AMT-19912	120 x 160 x 320
AMT-19913	120 x 160 x 360
AMT-19914	120 x 160 x 400
AMT-19915	120 x 160 x 440
AMT-19916	120 x 160 x 480
AMT-19917	120 x 160 x 520
AMT-19918	120 x 160 x 560
AMT-19919	120 x 160 x 600
AMT-19920	120 x 160 x 640
AMT-19921	120 x 160 x 680
AMT-19922	120 x 160 x 720
AMT-19923	120 x 160 x 760
AMT-19924	120 x 160 x 800
AMT-19925	120 x 160 x 840
AMT-19926	120 x 160 x 880
AMT-19927	120 x 160 x 920
AMT-19928	120 x 160 x 960
AMT-19929	120 x 160 x 1000
AMT-19930	120 x 160 x 1040
AMT-19931	120 x 160 x 1080
AMT-19932	120 x 160 x 1120
AMT-19933	120 x 160 x 1160
AMT-19934	120 x 160 x 1200
AMT-19935	120 x 160 x 1240



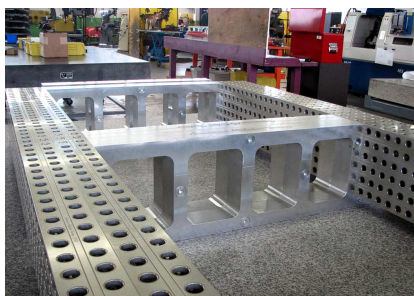
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- ⊕ Elongation Factor: 4.5—5.5%

Special Duty	Dimensions, mm
AMT-19936	120 x 160 x 1280
AMT-19937	120 x 160 x 1320
AMT-19938	120 x 160 x 1360
AMT-19939	120 x 160 x 1400
AMT-19940	120 x 160 x 1440
AMT-19941	120 x 160 x 1480
AMT-19942	120 x 160 x 1520
AMT-19943	120 x 160 x 1560
AMT-19944	120 x 160 x 1600
AMT-19945	120 x 160 x 1640
AMT-19946	120 x 160 x 1680
AMT-19947	120 x 160 x 1720
AMT-19948	120 x 160 x 1760
AMT-19949	120 x 160 x 1800
AMT-19950	120 x 160 x 1840
AMT-19951	120 x 160 x 1880
AMT-19952	120 x 160 x 1920
AMT-19953	120 x 160 x 1960
AMT-19954	120 x 160 x 2000
AMT-19955	120 x 160 x 2040
AMT-19956	120 x 160 x 2080
AMT-19957	120 x 160 x 2120
AMT-19958	120 x 160 x 2160
AMT-19959	120 x 160 x 2200
AMT-19960	120 x 160 x 2240
AMT-19961	120 x 160 x 2280
AMT-19962	120 x 160 x 2320
AMT-19963	120 x 160 x 2360
AMT-19964	120 x 160 x 2400
AMT-19965	120 x 160 x 2440



Special Duty	Dimensions, mm
AMT-19966	120 x 160 x 2480
AMT-19967	120 x 160 x 2520
AMT-19968	120 x 160 x 2560
AMT-19969	120 x 160 x 2600
AMT-19970	120 x 160 x 2640
AMT-19971	120 x 160 x 2680
AMT-19972	120 x 160 x 2720
AMT-19973	120 x 160 x 2760
AMT-19974	120 x 160 x 2800
AMT-19975	120 x 160 x 2840
AMT-19976	120 x 160 x 2880
AMT-19977	120 x 160 x 2920
AMT-19978	120 x 160 x 2960
AMT-19979	120 x 160 x 3000

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- ⊕ Special Duty Hollows feature a specially blended aluminum alloy.
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- ⊕ Hard Coat Anodize
- ⊕ Elongation Factor: 4.5—5.5%



Be Creative...Think Modular

American Modular Tooling

SYMBOL FOR:	ASME Y14.5M 1994	ISO
STRAIGHTNESS		
FLATNESS		
CIRCULARITY		
CYLINDRICITY		
PROFILE OF A LINE		
PROFILE OF A SURFACE		
ALL AROUND		(projected)
ANGULARITY		
PERPENDICULARITY		
PARALLELISM		
POSITION		
CONCENTRICITY (concentricity and coaxiality in ISO)		
SYMMETRY		
CIRCULAR RUNOUT		
TOTAL RUNOUT		
AT MAXIMUM MATERIAL CONDITION		
AT LEAST MATERIAL CONDITION		
REGARDLESS OF FEATURE SIZE	NONE	NONE
PROJECTED TOLERANCE ZONE		
TANGENT PLANE		(projected)
FREE STATE		
DIAMETER		
BASIC DIMENSION (theoretically exact dimension in ISO)		
REFERENCE DIMENSION (auxiliary dimension in ISO)	(50)	(50)
DATUM FEATURE		
DIMENSION ORIGIN		
FEATURE CONTROL FRAME		
CONICAL TAPER		
SLOPE		
COUNTERBORE/SPOTFACE		(projected)
COUNTERSINK		(projected)
DEPTH/DEEP		(projected)
SQUARE		
DIMENSION NOT TO SCALE	15	15
NUMBER OF PLACES	8A	8A
ARC LENGTH		
RADIUS	R	R
SPHERICAL RADIUS	SR	SR
SPHERICAL DIAMETER	SØ	SØ
CONTROLLED RADIUS	CR	NONE
BETWEEN		NONE
STATISTICAL TOLERANCE		NONE
DATUM TARGET		
TARGET POINT		

* May be filled or not filled

About Us

We are dedicated to presenting the finest quality products to industry while providing reliability and service. Our mission is to supply the technological advances that enable the manufacturing process to work faster, with higher precision, than past practices. We utilize methods that recognize global economic, ergonomic and ecological considerations.

Over the years our highly skilled personnel, consistency in service, quality and innovative ideas have proven to be our greatest assets.

Distributor Network

American Modular Tooling® products are sold through our highly valued distributor network, world-wide. We make all efforts to protect those relationships and are looking for additional qualified distribution networks in many areas of the world.

If you are unable to locate a distributor in your area, or are interested in becoming a distributor, please contact us at the numbers below.

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 United States

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 Web: pmargage.com
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C2 Gauge & Fixture

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Phone (616) 554.5222

Email: c2gauge.com/contact
 Web: c2gauge.com

⊕ Sales ⊕ Design & Build
 ⊕ Manufacturing ⊕ Logistics

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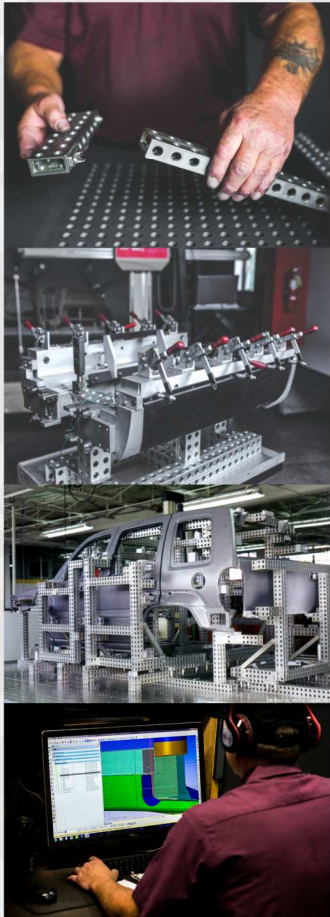
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C2
GAUGE & FIXTURE
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