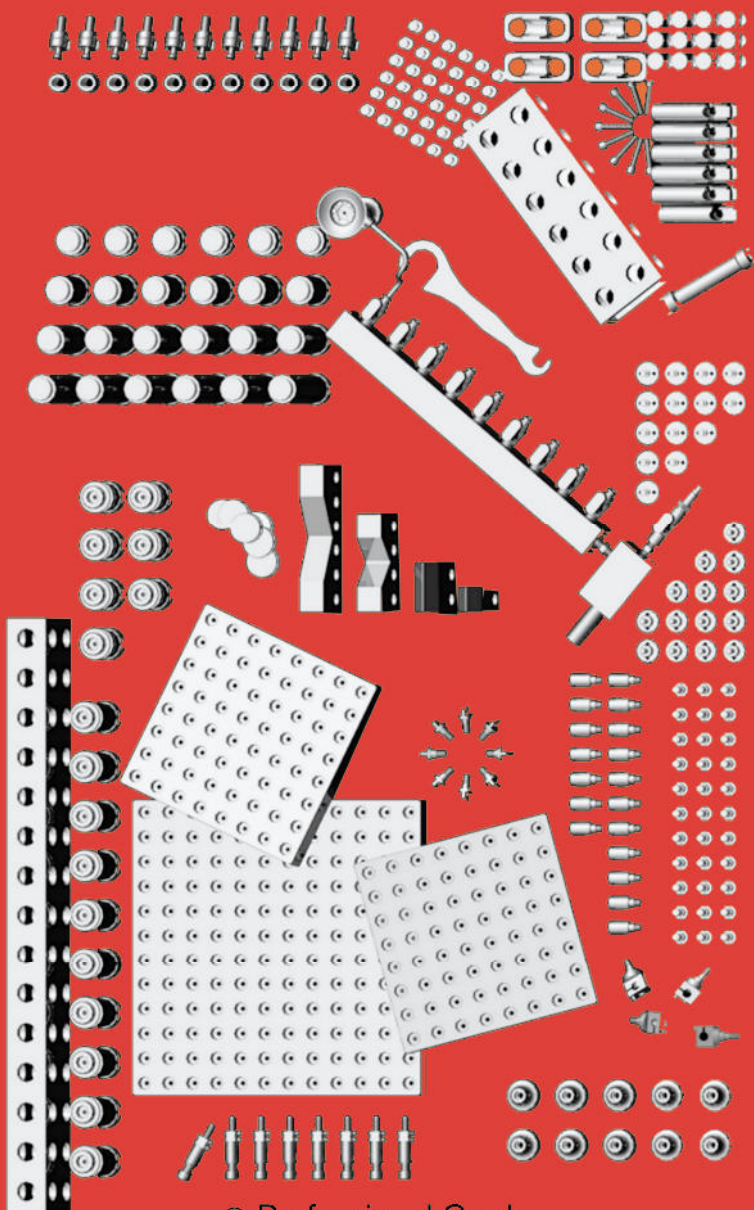




PAUL W. MARINO GAGES, INC.

American Modular Tooling



- ⊕ Professional Grade
- ⊕ Intellectually Inspired Technology
- ⊕ Enduring Performance
- ⊕ Total Aggregate Value



American Modular Tooling

About Us

We bring high quality, low cost tooling solutions to industry. Manufactured 100% in the United States of America, with the highest quality of American made raw materials, including our aluminum and steel products.

Our world headquarters, located in Warren, Michigan employs American citizens as tool makers, programmers, CNC machinists, highly talented tool designers and office personnel.

We bring high quality for low cost in an ongoing effort to keep America productive and competitive in today's global markets.

Paul Marino



Paul W. Marino Gages, Inc., Warren, Michigan

Widespread Acceptance

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

Our Other Products

Styli and Accessories®

Quality replacements for all major probing systems.



Measurement and Standards®

World standard measuring instruments & metrology artifacts.

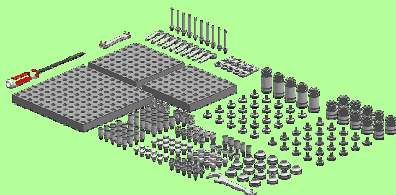




The New Manufacturing

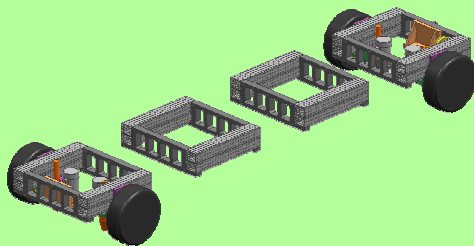
There is a worldwide movement to lean, efficient methods of manufacturing. The U.S. government is currently working with major manufacturers to implement modular, reconfigurable tooling. AMT fulfills the following:

- ⊕ Modular and reconfigurable
- ⊕ Rapid response and deployment
- ⊕ Light weight and ergonomic
- ⊕ Ecologically sound



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:

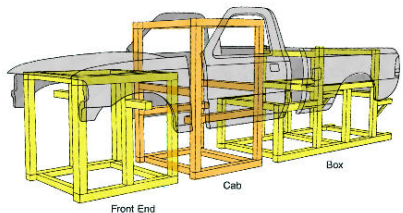
- | | |
|---------------------|--------------|
| ⊕ Facility Usage | 48% Less |
| ⊕ Lead Time | 60% Less |
| ⊕ Tooling Costs | 44% Less |
| ⊕ Tooling Labor | 60% Less |
| ⊕ Tool Design Costs | 50% Less |
| ⊕ Equipment Needs | 70% Less |
| ⊕ Reusable Material | 70% Reusable |

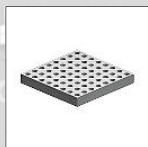
Manufacturing and Assembly:

- | | |
|-----------------------------|-------------|
| ⊕ 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:

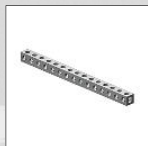
- ⊕ Fewer corrosion problems due to hard coat aluminum
- ⊕ Lower shipping costs due to lighter weight
- ⊕ Faster setup at customers facility
- ⊕ Good ROI on leasing of tool (70% reusable)
- ⊕ Can be used as temporary rate tool
- ⊕ Less space required for storage
- ⊕ Minimal maintenance requirements
-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





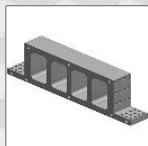
Grid Plates provide the basic structural foundation of almost any fixture.

Pages 7—16



Light weight Hollows feature a channelled interior for high accuracy.

Pages 17—34



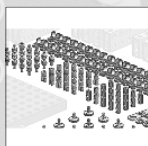
Special duty supports, gussets and foot plates provide added strength.

Pages 35—42



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

Pages 43—72



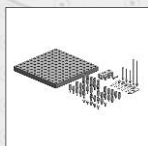
Connection Elements permit rapid assembly of fixtures.

Pages 73—86



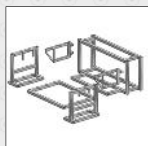
Tools and Storage Cabinets

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."

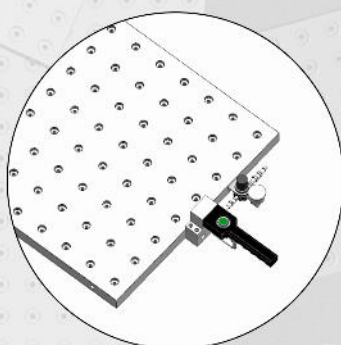
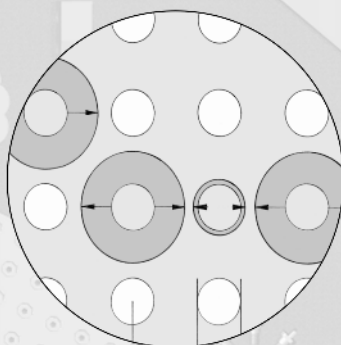
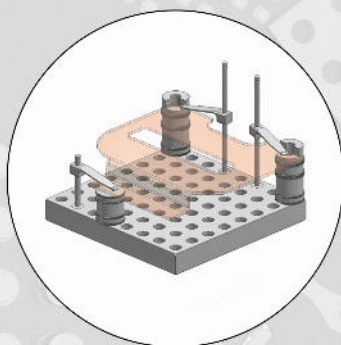


A close-up view showing a three-axis adjustable locating element holding a door in body position.

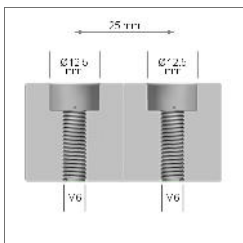
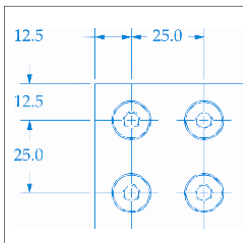
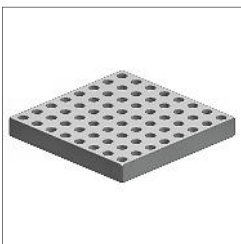
"It's part of our system now, they are definitely going to use it on the next big project. It should last for years."

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

See more on our website, www.americanmodulartooling.com

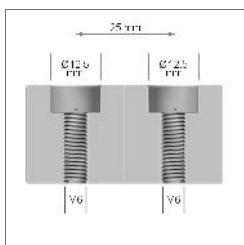
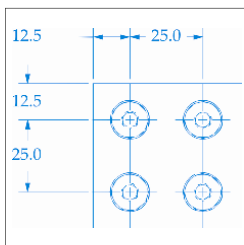
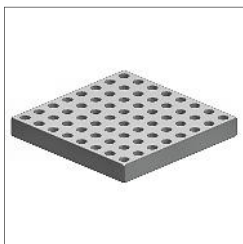


American Modular Tooling



- ⊕ AMT grid plates
- ⊕ Material 7075-T6
- ⊕ Hard coat anodize
- ⊕ System 25 plates feature 12.5mm shouldering diameter and M6 threads
- ⊕ 0.002 mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations
- ⊕ Refer to page 4 for Material Properties

Part No.	Dimensions, mm	Grid
AMT-11017	150 x 150	25
AMT-11018	150 x 200	25
AMT-11019	150 x 300	25
AMT-11020	150 x 350	25
AMT-11021	200 x 200	25
AMT-11022	200 x 250	25
AMT-11023	200 x 300	25
AMT-11024	200 x 350	25
AMT-11025	200 x 400	25
AMT-11026	225 x 100	25
AMT-11027	225 x 150	25
AMT-11028	225 x 175	25
AMT-11029	225 x 200	25
AMT-11030	225 x 225	25
AMT-11031	225 x 250	25
AMT-11032	225 x 300	25
AMT-11033	225 x 350	25
AMT-11034	225 x 400	25
AMT-11035	250 x 300	25
AMT-11036	250 x 350	25
AMT-11037	250 x 400	25
AMT-11038	250 x 450	25
AMT-11039	250 x 500	25
AMT-11040	275 x 300	25
AMT-11049	300 x 300	25
AMT-11050	300 x 350	25
AMT-11051	300 x 400	25
AMT-11052	300 x 500	25
AMT-11056	375 x 375	25
AMT-11057	375 x 400	25



- ⊕ AMT grid plates
- ⊕ Material 7075-T6
- ⊕ Hard coat anodize
- ⊕ System 25 plates feature 12.5mm shouldering diameter and M6 threads
- ⊕ 0.002 mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations

Part No.	Dimensions, mm	Grid
AMT-11058	375 x 450	25
AMT-11059	375 x 500	25
AMT-11063	400 x 400	25
AMT-11064	400 x 450	25
AMT-11065	400 x 500	25
AMT-11066	400 x 600	25
AMT-11067	400 x 700	25
AMT-11068	400 x 800	25
AMT-11075	450 x 650	25
AMT-11076	450 x 750	25
AMT-11077	450 x 800	25
AMT-11078	450 x 900	25
AMT-11079	500 x 500	25
AMT-11080	500 x 700	25
AMT-11081	500 x 900	25
AMT-11082	500 x 1200	25
AMT-11086	600 x 600	25
AMT-11087	600 x 800	25
AMT-11088	600 x 1000	25
AMT-11089	600 x 1200	25
AMT-11093	700 x 900	25
AMT-11094	700 x 1200	25
AMT-11097	800 x 800	25
AMT-11098	800 x 1000	25
AMT-11099	800 x 1200	25



Combi Retention Bolt



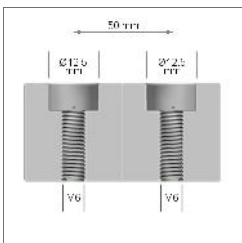
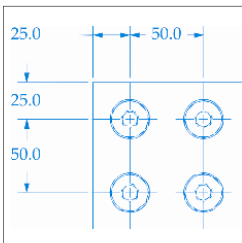
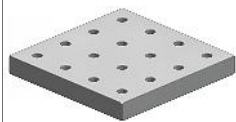
Centering Disc



Combi Retention Bolt (shortened)

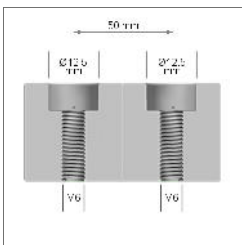
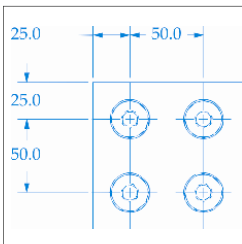
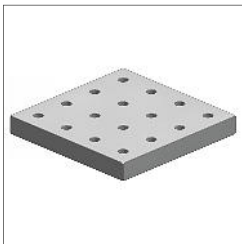
The connection or locating elements shown here have been designed to work with all AMT grid plates. See pages 77–79.

American Modular Tooling



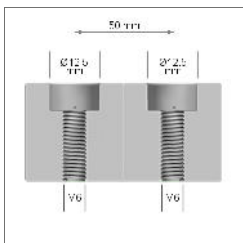
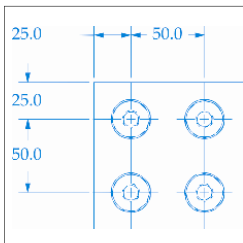
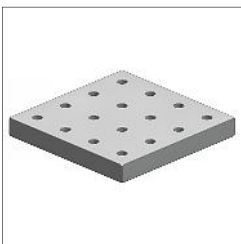
- ⊕ AMT grid plates
- ⊕ Material 7075-T6
- ⊕ Hard coat anodize
- ⊕ System 25 plates feature 12.5mm shouldering diameter and M6 threads
- ⊕ 0.002 mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations
- ⊕ Refer to page 4 for Material Properties

Part No.	Dimensions, mm	Grid
AMT-11117	175 x 175	50
AMT-11118	175 x 225	50
AMT-11119	175 x 325	50
AMT-11120	175 x 425	50
AMT-11121	200 x 200	50
AMT-11122	200 x 250	50
AMT-11123	200 x 300	50
AMT-11124	200 x 350	50
AMT-11125	200 x 400	50
AMT-11126	225 x 225	50
AMT-11127	225 x 325	50
AMT-11128	225 x 425	50
AMT-11129	225 x 525	50
AMT-11130	225 x 625	50
AMT-11135	250 x 300	50
AMT-11136	250 x 350	50
AMT-11137	250 x 400	50
AMT-11138	250 x 450	50
AMT-11139	250 x 500	50
AMT-11140	300 x 300	50
AMT-11141	300 x 400	50
AMT-11142	300 x 500	50
AMT-11143	300 x 600	50
AMT-11151	400 x 400	50
AMT-11152	400 x 450	50
AMT-11153	400 x 500	50
AMT-11154	400 x 700	50
AMT-11155	400 x 800	50
AMT-11156	450 x 450	50
AMT-11157	450 x 500	50



- ⊕ AMT grid plates
- ⊕ Material 7075-T6
- ⊕ Hard coat anodize
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- ⊕ 0.002 mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations
- ⊕ Refer to page 4 for Material Properties

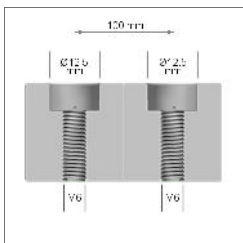
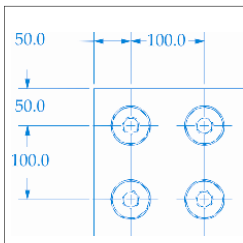
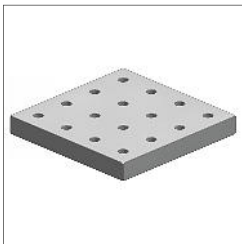
Part No.	Dimensions, mm	Grid
AMT-11158	450 x 600	50
AMT-11159	450 x 700	50
AMT-11160	450 x 800	50
AMT-11161	450 x 900	50
AMT-11162	450 x 1000	50
AMT-11163	450 x 1200	50
AMT-11164	500 x 500	50
AMT-11165	500 x 600	50
AMT-11166	500 x 700	50
AMT-11167	500 x 800	50
AMT-11168	500 x 900	50
AMT-11169	500 x 1000	50
AMT-11170	500 x 1200	50
AMT-11171	600 x 600	50
AMT-11172	600 x 700	50
AMT-11173	600 x 800	50
AMT-11174	600 x 900	50
AMT-11175	600 x 1000	50
AMT-11176	600 x 1100	50
AMT-11177	600 x 1200	50
AMT-11178	600 x 1300	50
AMT-11179	600 x 1400	50
AMT-11180	600 x 1500	50
AMT-11182	700 x 700	50
AMT-11183	700 x 800	50
AMT-11184	700 x 900	50
AMT-11185	700 x 1000	50
AMT-11186	700 x 1200	50
AMT-11187	700 x 1400	50
AMT-11188	700 x 1600	50

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Part No.	Dimensions, mm	Grid
AMT-11189	700 x 1800	50
AMT-11190	800 x 800	50
AMT-11191	800 x 1000	50
AMT-11192	800 x 1200	50
AMT-11193	800 x 1400	50
AMT-11194	800 x 1600	50
AMT-11195	800 x 1800	50

- ⊕ AMT grid plates
- ⊕ Material 7075-T6
- ⊕ Hard coat anodize
- ⊕ System 25 plates feature 12.5mm shouldering diameter and M6 threads
- ⊕ 0.002 mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations
- ⊕ Refer to page 4 for Material Properties

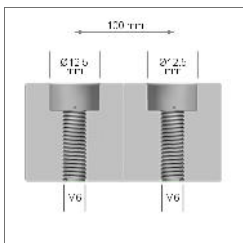
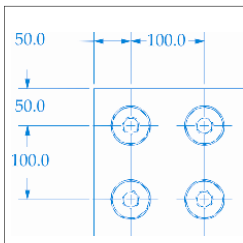
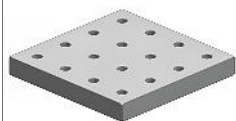




- ⊕ AMT grid plates
- ⊕ Material 7075-T6
- ⊕ Hard coat anodize
- ⊕ System 25 plates feature 12.5mm shouldering diameter and M6 threads
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- ⊕ Refer to page 4 for Material Properties

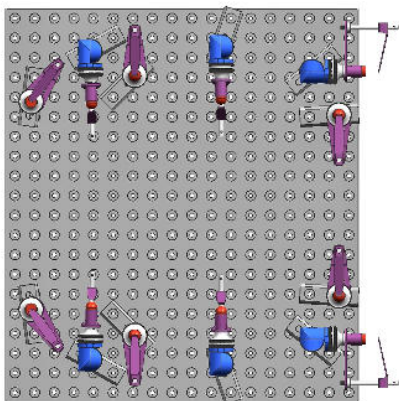
Part No.	Dimensions, mm	Grid
AMT-11240	325 x 325	100
AMT-11241	325 x 425	100
AMT-11242	325 x 525	100
AMT-11243	325 x 625	100
AMT-11244	325 x 725	100
AMT-11245	325 x 825	100
AMT-11246	325 x 1025	100
AMT-11250	425 x 425	100
AMT-11251	425 x 525	100
AMT-11252	425 x 625	100
AMT-11253	425 x 725	100
AMT-11254	425 x 825	100
AMT-11255	425 x 925	100
AMT-11256	425 x 1025	100
AMT-11257	425 x 1125	100
AMT-11258	425 x 1225	100
AMT-11261	525 x 525	100
AMT-11262	525 x 625	100
AMT-11263	525 x 725	100
AMT-11264	525 x 825	100
AMT-11265	525 x 925	100
AMT-11266	525 x 1025	100
AMT-11267	525 x 1125	100
AMT-11268	525 x 1225	100
AMT-11271	625 x 625	100
AMT-11272	625 x 725	100
AMT-11273	625 x 825	100
AMT-11274	625 x 925	100
AMT-11275	625 x 1025	100
AMT-11276	625 x 1125	100

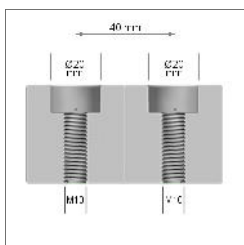
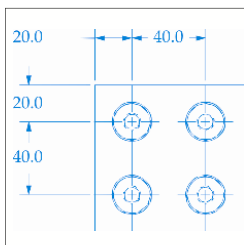
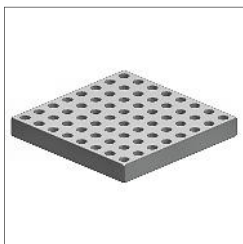
American Modular Tooling



Part No.	Dimensions, mm	Grid
AMT-11277	625 x 1225	100
AMT-11278	725 x 725	100
AMT-11279	725 x 825	100
AMT-11280	725 x 925	100
AMT-11281	725 x 1025	100
AMT-11282	725 x 1125	100
AMT-11283	725 x 1225	100
AMT-11284	725 x 1525	100
AMT-11286	825 x 825	100
AMT-11287	825 x 925	100
AMT-11288	825 x 1025	100
AMT-11289	825 x 1225	100
AMT-11290	825 x 1325	100
AMT-11291	825 x 1425	100
AMT-11292	825 x 1525	100
AMT-11293	825 x 1625	100
AMT-11294	825 x 1725	100
AMT-11295	825 x 1825	100

- ⊕ AMT grid plates
- ⊕ Material 7075-T6
- ⊕ Hard coat anodize
- ⊕ System 25 plates feature 12.5mm shouldering diameter and M6 threads
- ⊕ 0.002 mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations
- ⊕ Refer to page 4 for Material Properties





Part No.	Dimensions, mm	Grid
AMT-11402	200 x 320	40
AMT-11403	200 x 360	40
AMT-11404	200 x 400	40
AMT-11405	320 x 320	40
AMT-11406	320 x 400	40
AMT-11407	320 x 440	40
AMT-11408	360 x 360	40
AMT-11409	360 x 400	40
AMT-11410	360 x 480	40
AMT-11411	360 x 520	40
AMT-11412	360 x 560	40
AMT-11413	400 x 400	40
AMT-11414	400 x 520	40
AMT-11415	400 x 600	40
AMT-11416	400 x 640	40
AMT-11417	400 x 680	40
AMT-11418	400 x 720	40
AMT-11419	400 x 760	40
AMT-11420	600 x 800	40

Note: Additional sizes and grid patterns are available.

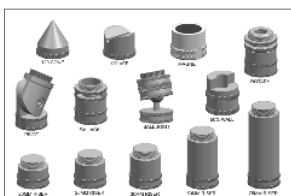




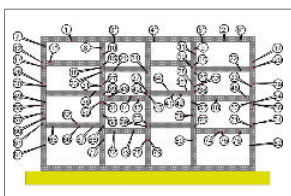
American Modular Tooling

SOLUTIONS® Ideas

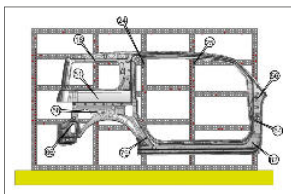
This Measuring Screen is an ideal system for use with portable arm CMM systems, Camera, Laser or Photogrammetry systems. Altogether, we held 21 parts on this fixture.



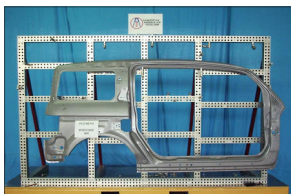
The Toolbox



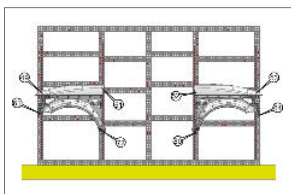
The Plan



Part A Design



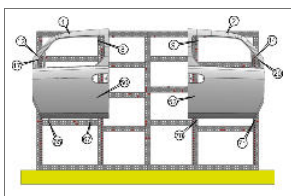
Part A



Part B Design



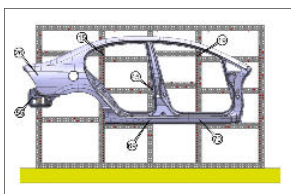
Part B



Part C Design



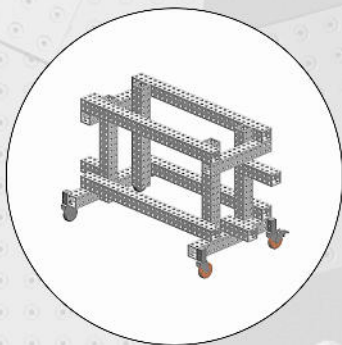
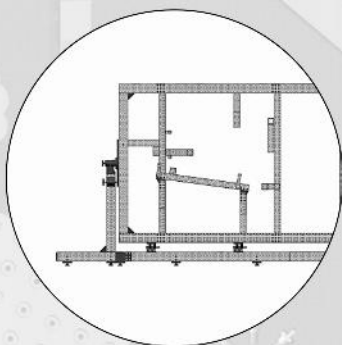
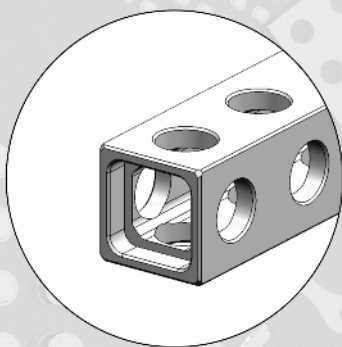
Part C

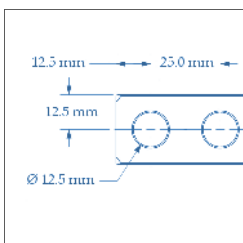
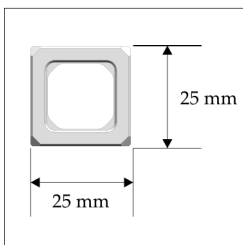


Part D Design



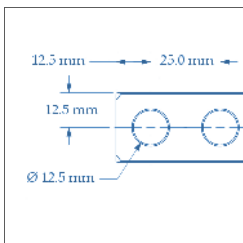
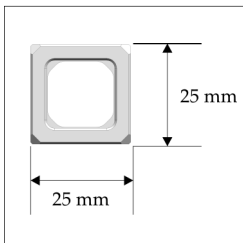
Part D





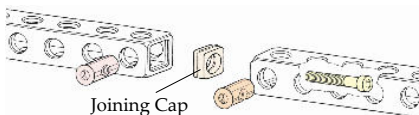
- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 25 features machine finished Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

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

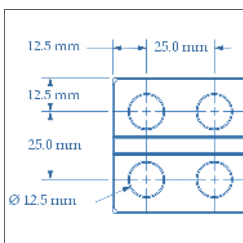
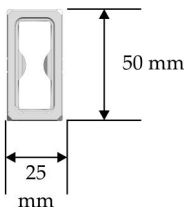
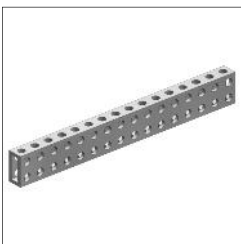


- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 25 features
machine finished
Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

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

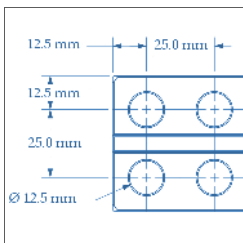
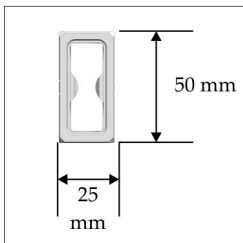
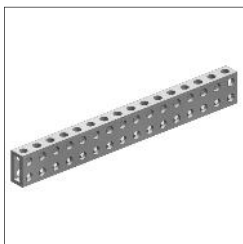


Use Joining Caps to
connect Hollows and
make longer lengths.
See page 85.

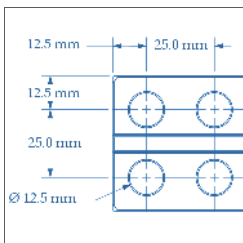
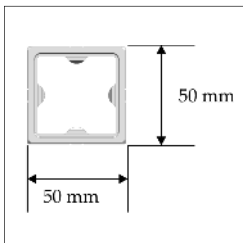
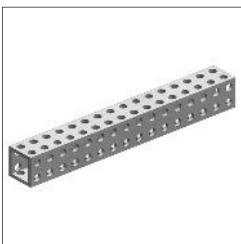


- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 25 features machine finished Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

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

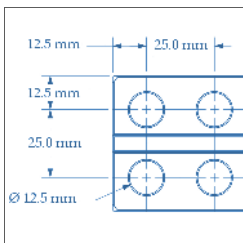
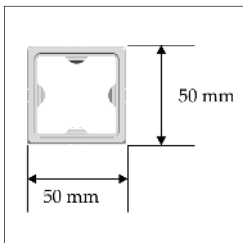
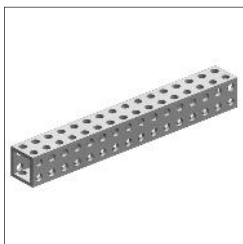


Commercial Grade	Professional Grade	Dimensions, mm
AMT-09236	AMT-19236	25 x 50 x 800
AMT-09237	AMT-19237	25 x 50 x 825
AMT-09238	AMT-19238	25 x 50 x 850
AMT-09239	AMT-19239	25 x 50 x 875
AMT-09240	AMT-19240	25 x 50 x 900
AMT-09241	AMT-19241	25 x 50 x 925
AMT-09242	AMT-19242	25 x 50 x 950
AMT-09243	AMT-19243	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-09262	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



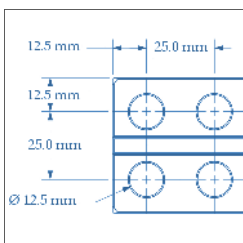
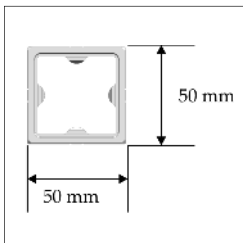
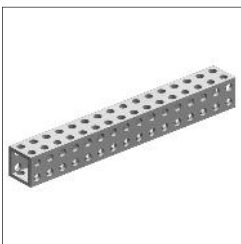
- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 25 features machine finished Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

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



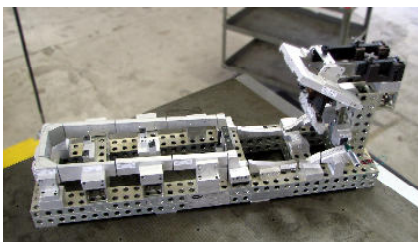
- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 25 features
machine finished
Ø12.5 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

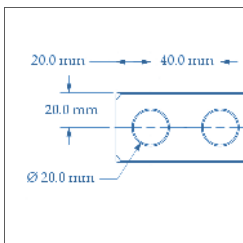
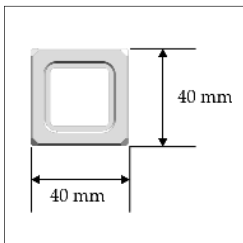
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09336	AMT-19336	50 x 50 x 800
AMT-09337	AMT-19337	50 x 50 x 825
AMT-09338	AMT-19338	50 x 50 x 850
AMT-09339	AMT-19339	50 x 50 x 875
AMT-09340	AMT-19340	50 x 50 x 900
AMT-09341	AMT-19341	50 x 50 x 925
AMT-09342	AMT-19342	50 x 50 x 950
AMT-09343	AMT-19343	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.

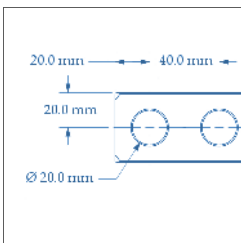
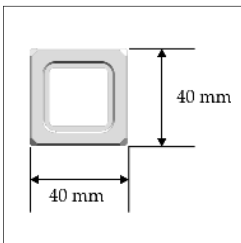
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09366	AMT-19366	50 x 50 x 1550
AMT-09367	AMT-19367	50 x 50 x 1575
AMT-09368	AMT-19368	50 x 50 x 1600
AMT-09369	AMT-19369	50 x 50 x 1625
AMT-09370	AMT-19370	50 x 50 x 1650
AMT-09371	AMT-19371	50 x 50 x 1675
AMT-09372	AMT-19372	50 x 50 x 1700
AMT-09373	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





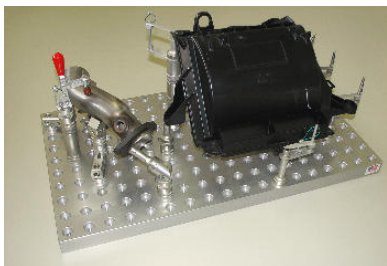
- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 40 features
machine finished
Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

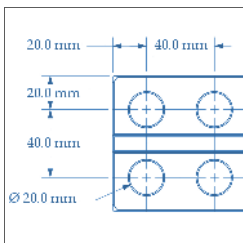
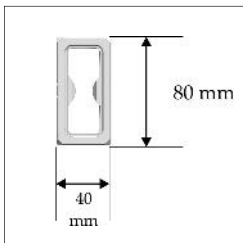
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09406	AMT-19406	40 x 40 x 80
AMT-09407	AMT-19407	40 x 40 x 120
AMT-09408	AMT-19408	40 x 40 x 160
AMT-09409	AMT-19409	40 x 40 x 200
AMT-09410	AMT-19410	40 x 40 x 240
AMT-09411	AMT-19411	40 x 40 x 280
AMT-09412	AMT-19412	40 x 40 x 320
AMT-09413	AMT-19413	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.

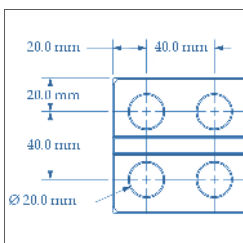
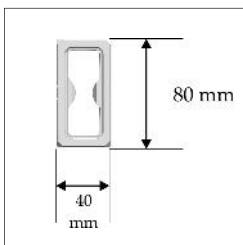
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09436	AMT-19436	40 x 40 x 1280
AMT-09437	AMT-19437	40 x 40 x 1320
AMT-09438	AMT-19438	40 x 40 x 1360
AMT-09439	AMT-19439	40 x 40 x 1400
AMT-09440	AMT-19440	40 x 40 x 1440
AMT-09441	AMT-19441	40 x 40 x 1480
AMT-09442	AMT-19442	40 x 40 x 1520
AMT-09443	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





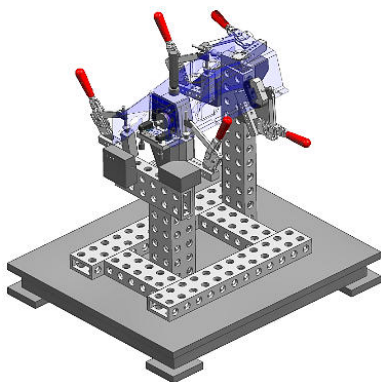
- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 40 features
machine finished
Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

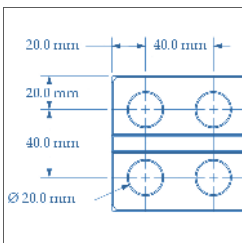
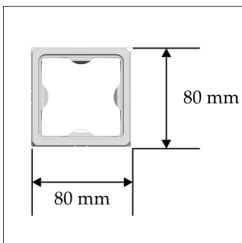
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09506	AMT-19506	40 x 80 x 80
AMT-09507	AMT-19507	40 x 80 x 120
AMT-09508	AMT-19508	40 x 80 x 160
AMT-09509	AMT-19509	40 x 80 x 200
AMT-09510	AMT-19510	40 x 80 x 240
AMT-09511	AMT-19511	40 x 80 x 280
AMT-09512	AMT-19512	40 x 80 x 320
AMT-09513	AMT-19513	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 $\varnothing 20.0$ mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

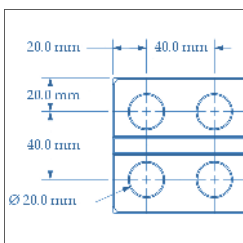
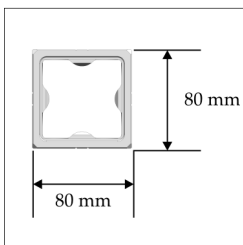
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09536	AMT-19536	40 x 80 x 1280
AMT-09537	AMT-19537	40 x 80 x 1320
AMT-09538	AMT-19538	40 x 80 x 1360
AMT-09539	AMT-19539	40 x 80 x 1400
AMT-09540	AMT-19540	40 x 80 x 1440
AMT-09541	AMT-19541	40 x 80 x 1480
AMT-09542	AMT-19542	40 x 80 x 1520
AMT-09543	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





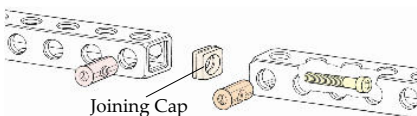
- ⊕ AMT aluminum
Hollows
- ⊕ Commercial Grade
Material 6061-T6
- ⊕ Professional Grade,
Seamless Hollows
Material 7075-T6
- ⊕ See Material
Properties on
page 4.
- ⊕ System 40 features
machine finished
Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008")
accuracy of flat,
square, parallel,
hole size and hole
locations.

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

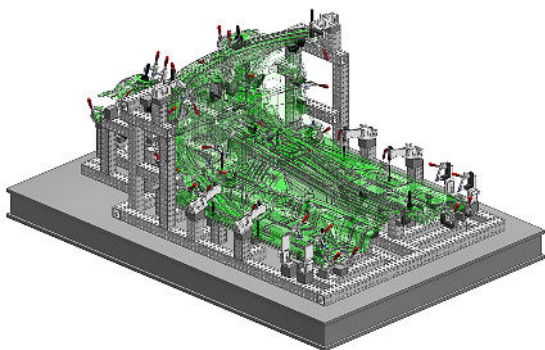


- ⊕ AMT aluminum Hollows
- ⊕ Commercial Grade Material 6061-T6
- ⊕ Professional Grade, Seamless Hollows Material 7075-T6
- ⊕ See Material Properties on page 4.
- ⊕ System 40 features machine finished Ø20.0 mm bores.
- ⊕ 0.02mm (0.0008") accuracy of flat, square, parallel, hole size and hole locations.

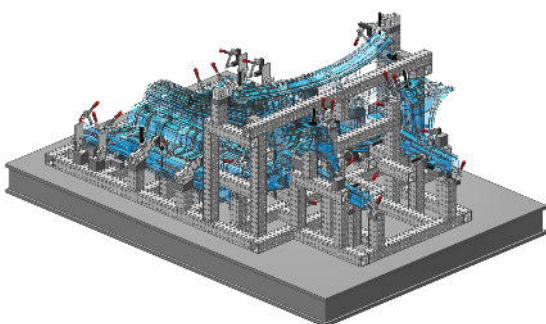
Commercial Grade	Professional Grade	Dimensions, mm
AMT-09736	AMT-19736	80 x 80 x 1280
AMT-09737	AMT-19737	80 x 80 x 1320
AMT-09738	AMT-19738	80 x 80 x 1360
AMT-09739	AMT-19739	80 x 80 x 1400
AMT-09740	AMT-19740	80 x 80 x 1440
AMT-09741	AMT-19741	80 x 80 x 1480
AMT-09742	AMT-19742	80 x 80 x 1520
AMT-09743	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



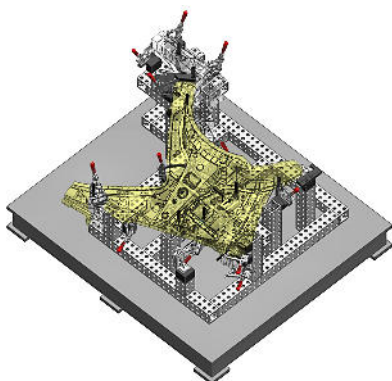
Use Joining Caps to connect Hollows and make longer lengths. See page 85.



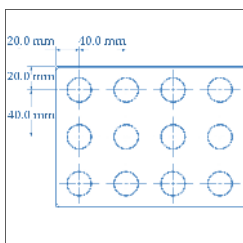
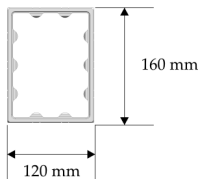
Match check tool, underbody and dash (above and below)



Be creative...think modular.

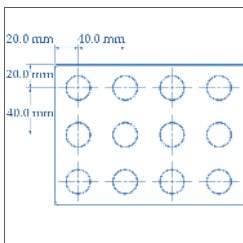
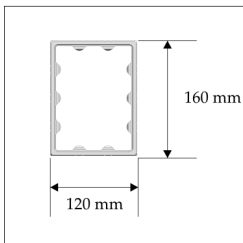
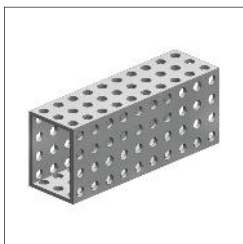


Wheelhouse tool



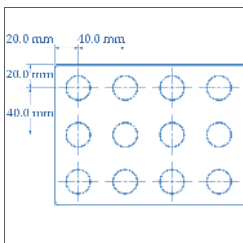
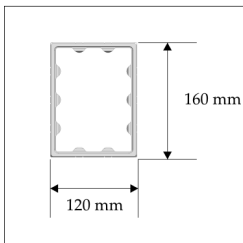
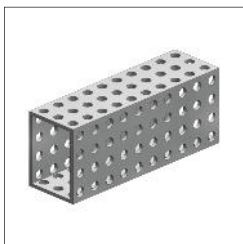
- ⊕ AMT aluminum Hollows
- ⊕ Special Duty Hollows feature a specially blended aluminum alloy.
- ⊕ KSI Tensile: 45,000 PSI
- ⊕ KSI Yield: 30,000 PSI
- ⊕ Hard Coat Anodize
- ⊕ Elongation Factor: 4.5—5.5%

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



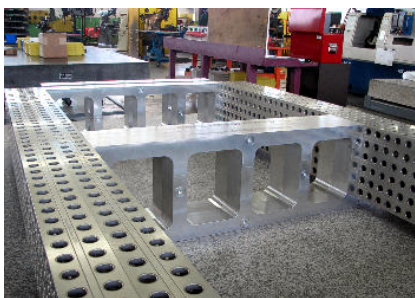
- ⊕ AMT aluminum Hollows
- ⊕ Special Duty Hollows feature a specially blended aluminum alloy.
- ⊕ KSI Tensile: 45,000 PSI
- ⊕ KSI Yield: 30,000 PSI
- ⊕ Hard Coat Anodize
- ⊕ Elongation Factor: 4.5—5.5%

Special Duty	Dimensions, mm
AMT-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

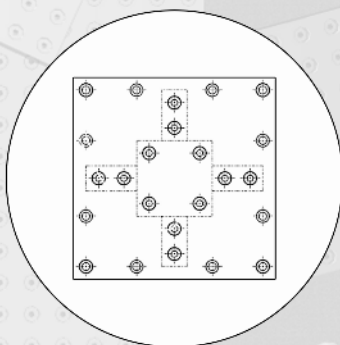
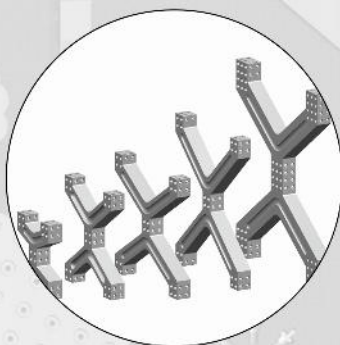
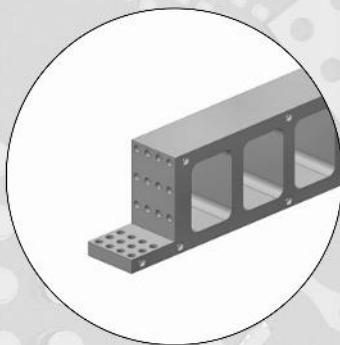


Special Duty	Dimensions, mm
AMT-19966	120 x 160 x 2480
AMT-19967	120 x 160 x 2520
AMT-19968	120 x 160 x 2560
AMT-19969	120 x 160 x 2600
AMT-19970	120 x 160 x 2640
AMT-19971	120 x 160 x 2680
AMT-19972	120 x 160 x 2720
AMT-19973	120 x 160 x 2760
AMT-19974	120 x 160 x 2800
AMT-19975	120 x 160 x 2840
AMT-19976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

- ⊕ 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%

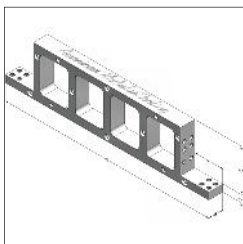


Be Creative...Think Modular

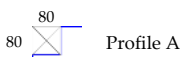




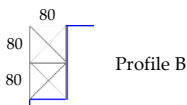
American Modular Tooling



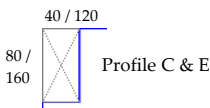
Support, Type B.
Custom, box type,
special duty support
made of aluminum.



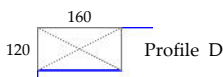
Profile A



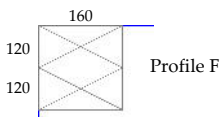
Profile B



Profile C & E



Profile D



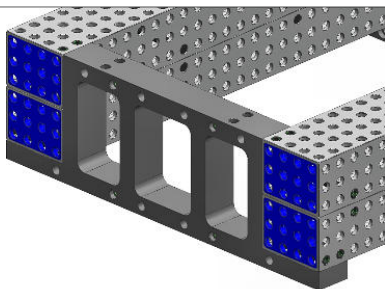
Profile F

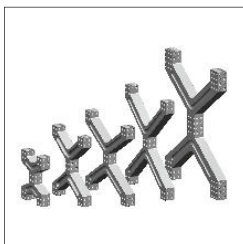
Part No.	Dimensions	Profile
AMT-28101	80 x 120 x 600	A
AMT-28102	80 x 120 x 720	A
AMT-28103	80 x 120 x 760	A
AMT-28104	80 x 120 x 880	A
AMT-28105	80 x 200 x 600	B
AMT-28106	80 x 200 x 720	B
AMT-28107	80 x 200 x 760	B
AMT-28108	80 x 200 x 880	B
AMT-28109	80 x 120 x 520	C
AMT-28110	80 x 120 x 640	C
AMT-28111	80 x 120 x 680	C
AMT-28112	80 x 120 x 800	C
AMT-28113	80 x 160 x 720	D
AMT-28114	80 x 160 x 760	D
AMT-28115	80 x 160 x 880	D
AMT-28116	80 x 160 x 1000	D
AMT-28117	80 x 200 x 720	E
AMT-28118	80 x 200 x 760	E
AMT-28119	80 x 200 x 880	E
AMT-28120	80 x 200 x 1000	E
AMT-28121	80 x 280 x 880	F
AMT-28122	80 x 280 x 1000	F
AMT-28123	80 x 280 x 1160	F

SOLUTIONS® How it works

Cast Parts feature:

- ⊕ 319, 0—T5 Sand Cast
- ⊕ KSI Tensile: 30,000 PSI
- ⊕ KSI Yield: 57,000 PSI
- ⊕ Hard Coat Anodize
- ⊕ Elongation Factor: 10%

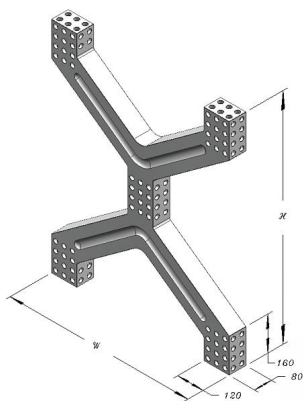
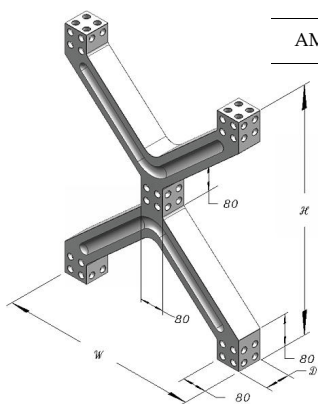




AMT "X" Supports for extra strength.

Part No.	Dimensions	System
AMT-28301	25 x 150 x 200	25
AMT-28302	25 x 300 x 400	25
AMT-28303	25 x 450 x 600	25
AMT-28304	50 x 450 x 600	25
AMT-28305	25 x 600 x 800	25
AMT-28306	50 x 600 x 800	25
AMT-28307	50 x 750 x 1000	25
AMT-28308	40 x 320 x 400	40
AMT-28309	40 x 480 x 560	40
AMT-28311	40 x 640 x 640	40
AMT-28312	80 x 640 x 640	40
AMT-28310	40 x 640 x 800	40
AMT-28320	80 x 640 x 800	40
AMT-28321	80 x 840 x 1040	40

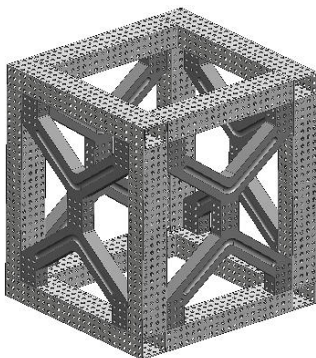
Special Duty

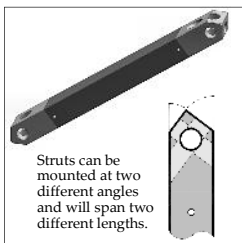


"Maximum Strength"

Cast Parts feature:

- ⊕ 319, 0—T5 Sand Cast
- ⊕ KSI Tensile: 30,000 PSI
- ⊕ KSI Yield: 57,000 PSI
- ⊕ Hard Coat Anodize
- ⊕ Elongation Factor: 10%

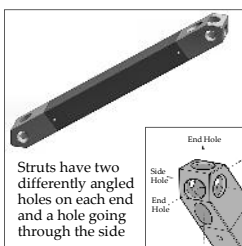




AMT Strut, 25 x 25

Part No.	Dimensions	Short Span	Long Span
AMT-27506	25 x 25	175	225
AMT-27508	25 x 25	250	325
AMT-27512	25 x 25	400	525
AMT-27514	25 x 25	475	625
AMT-27516	25 x 25	550	725

Note: Short Span x Long Span = Window as illustrated below.



AMT Strut, 40 x 40

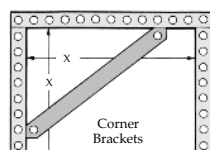
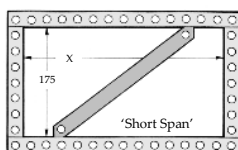
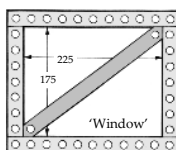
Part No.	Dimensions	Short Span	Long Span
AMT-27546	40 x 40	160	200
AMT-27547	40 x 40	280	360
AMT-27548	40 x 40	400	520
AMT-27549	40 x 40	640	840
AMT-27550	40 x 40	760	1000

Note: Short Span x Long Span = Window as illustrated below.

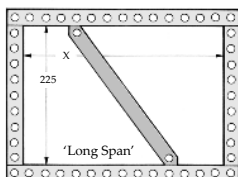
SOLUTIONS®

How it works

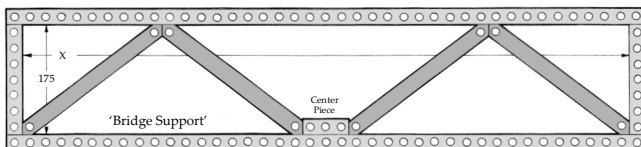
(Strut 27506 shown as an example)



Each strut can span only two different lengths. In this case a 'window' of 175 x 225 mm is the smallest area into which the strut can be fitted. When struts cannot span an area they should be used as corner brackets.



The strut setup shown below is used for a long bridge-type support. A short center piece is added for extra strength.





AMT Strut, 40 x 80

Part No.	Dimensions	Short Span	Long Span
AMT-27552	40 x 80	160	200
AMT-27553	40 x 80	280	360
AMT-27554	40 x 80	400	520
AMT-27555	40 x 80	520	680
AMT-27556	40 x 80	640	840

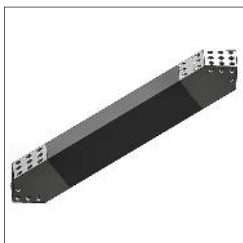
Note: Short Span x Long Span = Window as illustrated on previous page.



AMT Strut, 80 x 80

Part No.	Dimensions	Short Span	Long Span
AMT-27558	80 x 80	760	1000
AMT-27559	80 x 80	880	1160
AMT-27560	80 x 80	1000	1320

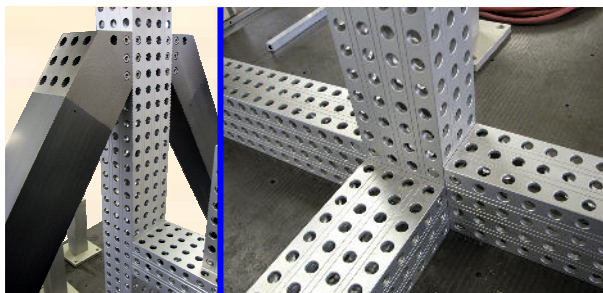
Note: Short Span x Long Span = Window as illustrated on previous page.



AMT Strut, 120 x 160

Part No.	Dimensions	Short Span	Long Span
AMT-27563	120 x 160	880	1160
AMT-27564	120 x 160	1000	1320
AMT-27565	120 x 160	1120	1480
AMT-27566	120 x 160	1240	1600

Note: Short Span x Long Span = Window as illustrated on previous page.

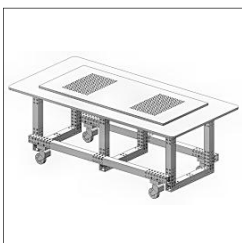


Larger sizes are available on request.



Part No.	Dimensions
AMT-14523	650 x 1500 x 1000

AMT Universal Jig Table features all edges parallel and perpendicular to bars. Remove the wheels and sit on surface plate for prototype milling applications.



Part No.	Dimensions
AMT-14575	1200 x 2000 x 1000

AMT Jig Table features all edges parallel and perpendicular to bars. Great as jig table or rolling workstation. Remove the wheels and sit on surface plate for prototype milling applications.

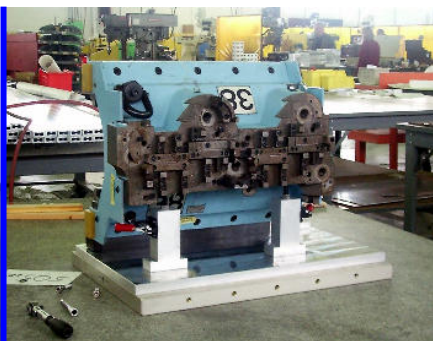


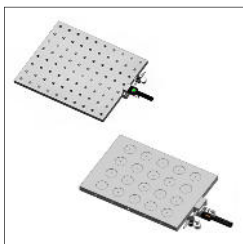
Part No.	Dimensions
X-Table	800 x 1800 x 785

AMT Jig Table. Add casters and make this universal table portable.

SOLUTIONS®

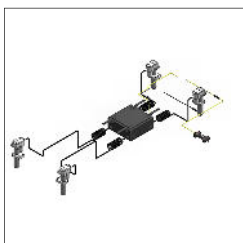
Ideas: Jig Tables and Air Pallets





Part No.	Dimensions	System
AMT-11705	25 x 500 x 500	25
AMT-11707	25 x 600 x 800	25
AMT-11723	40 x 600 x 800	40

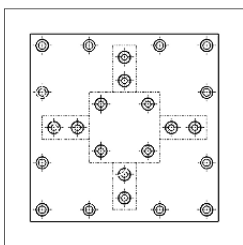
AMT Air Pallets provide easy movement of heavy parts. May also be used with our transport carts.



Part No.	Dimensions	System
AMT-14690	—	25 / 40



Leveling System: Hand Pendant / Controller / 4 Actuators with cables.



Part No.	Dimensions	System
AMT-14309	40 x 80 mm	40
AMT-14310	80 x 80 mm	40
AMT-14311	120 x 160 mm	40

Standard and custom Foot Plates for our hole pattern or yours.



Custom Foot Plates for Special Duty Stanchions can be made to customer supplied specifications.



American Modular Tooling



Part No.	Dimensions	System
Special	Square profile x length	25 or 40
Special	Rectangular profile x length	25 or 40

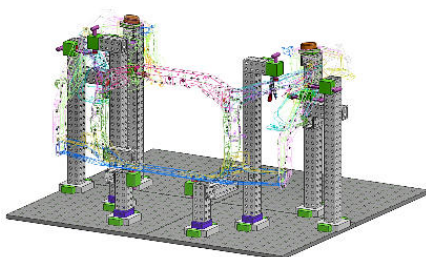
Special Duty

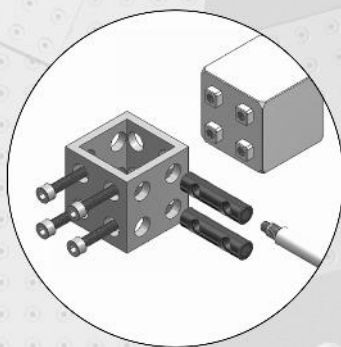
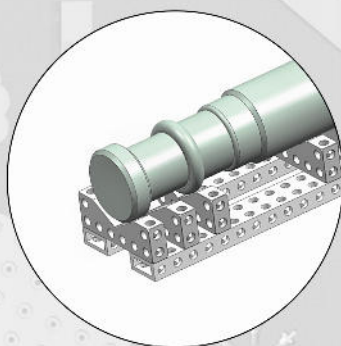
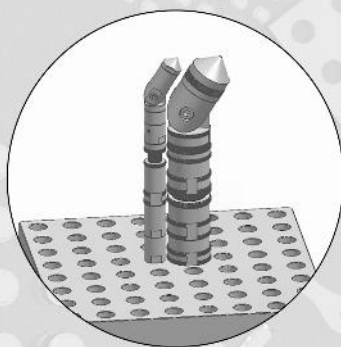
Standard Hollow profiles available in all profiles, lengths and hole patterns. Adds strength, costs less.

SOLUTIONS®

Ideas: **Special Systems**

AMT Special Duty Aluminum Hollows combined with Foot Plates and Grid Plates can be used to make extra strong, extra large tools, fixtures and gages. Ideal for assembly work, weld tools and other large workholding jobs.



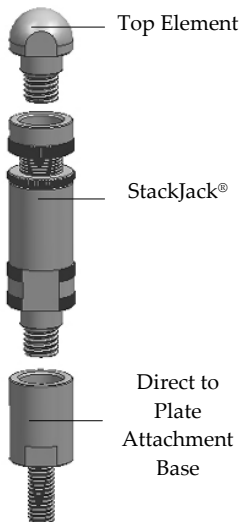
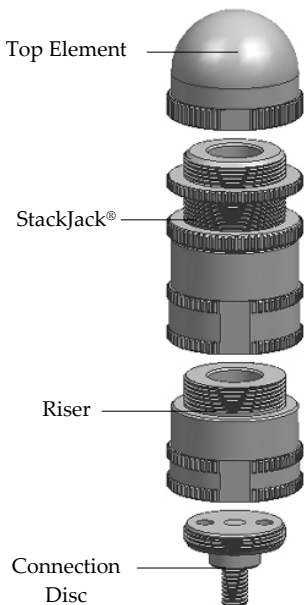


SOLUTIONS®

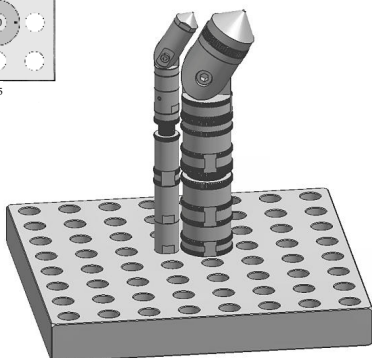
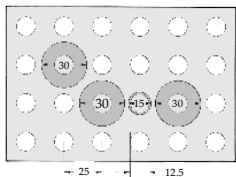
How it works: Space Saver® Elements

30 mm

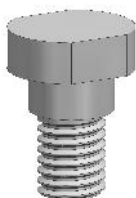
15 mm
Space Saver®



Use 15 mm diameter Space Saver® elements to get into tight, hard to reach areas, 30 mm components where additional heft is required or use cross-system adapters and use both sizes.



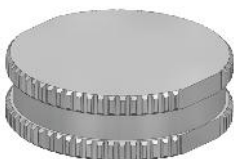
30 mm / 15 mm Space Saver® Elements Comparison Chart



M8

Part No.	Dimensions	System
AMT-15002	5 x 15 mm	25 / 40
AMT-15003	10 x 15 mm	25 / 40

Flat Locator with Space Saver® profile (15mm diameter).



M24

Part No.	Dimensions	System
AMT-15206	10 x 30 mm	25 / 40

Flat Locator, 30 mm diameter. Good for flat surface locations, use on jacks to make adjustable risers, stops and locators, risers or directly on plate as jig feet.



M8

Part No.	Dimensions	System
AMT-15057	10 x 15 mm	25 / 40

Magnetic Locator, with 10 mm diameter rare earth magnet. Provides super holding and locating. Space Saver® profile (15 mm diameter).



M24

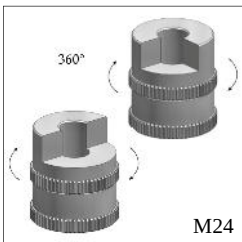
Part No.	Dimensions	System
AMT-15357	25 x 30 mm	25 / 40

Magnetic Locator, with 25 mm diameter rare earth magnet. Excellent for holding or clamping. Maximum holding power.



Part No.	Dimensions	System
AMT-15037	10 x 15 mm, 1/2	25 / 40
AMT-15041	10 x 15mm, 3/4	25 / 40

Wall Locator, rotates and locks firmly. Use the 1/2 wall to locate and support edges and the 3/4 wall to locate and support corners. 15 mm diameter Space Saver® profile.



Part No.	Dimensions	System
AMT-15270	35 x 30 mm, 1/2	25 / 40
AMT-15271	35 x 30 mm, 3/4	25 / 40

Wall Locator, rotates and locks firmly. Use the 1/2 wall to locate and support edges and the 3/4 wall to locate and support corners. Ideal for heavy part edge and corner supports.



Part No.	Dimensions	System
AMT-15010	10 x 15 mm	25 / 40

Sphere Locator for single point contact. Space Saver® 15 mm diameter profile.



Part No.	Dimensions	System
AMT-15248	25 x 30 mm	25 / 40

Sphere Locator, robust single point locator, for large part locating. 30 mm diameter.



M8

Part No.	Dimensions	System
AMT-15020	10 x 15 mm	25 / 40

Cone Locator. Great for "RFS" in holes and slots. Combine with pivot and ball joint elements for amazing flexibility. 15 mm diameter Space Saver® profile..



M24

Part No.	Dimensions	System
AMT-15235	35 x 30 mm, 90°	25 / 40
AMT-15236	25 x 30 mm, 120°	25 / 40

Cone Locator, 30 mm diameter, is ideal for "RFS" locating up to 25 mm diameter holes and slots. Combine with pivot and ball joint elements for amazing flexibility.



M8

Part No.	Dimensions	System
AMT-15026	10 x 15 mm x 90°	25 / 40
AMT-15030	10 x 15 mm x 120°	25 / 40

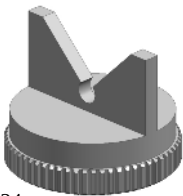
Vee Locator, rotates and locks firmly in position. Excellent for all types of round parts. 15 mm diameter Space Saver® profile.



M24

Part No.	Dimensions	System
AMT-15258	35 x 30 mm x 90°	25 / 40
AMT-15259	35 x 30 mm x 120°	25 / 40

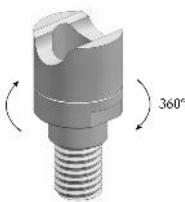
Vee Locator. Couple these Vees with a rotating adapter, pivot or both, for unlimited options. Great for tubing jobs.



M24

Part No.	Dimensions	System
AMT-15263	25 x 30 mm, 90°	25 / 40
AMT-15264	25 x 30 mm, 120°	25 / 40

Vee Locator, thin. Great for locating on "O" ring grooves and other tight areas.



M8

Part No.	Dimensions	System
AMT-15060	10 x 15 mm Ø < 6mm	25 / 40
AMT-15061	10 x 15 mm Ø < 8mm	25 / 40
AMT-15062	10 x 15 mm Ø < 10mm	25 / 40

Radius Locator with rotate and lock, designed for locating tubes. Tubes from 6 mm to 10 mm diameter can be held comfortably using these devices. 15 mm diameter Space Saver® profile.

SOLUTIONS®

How it works

AMT indicator/transducer holders allow you to build inspection fixtures and gages adding SPC capabilities to fixtures!

For 8mm or 3/8" shanks.



M8

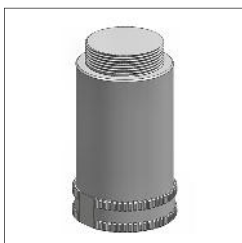
Part No.	Dimensions	System
AMT-15047	20 x 15 mm, 3/8	25 / 40
AMT-15050	20 x 15 mm, 8mm	25 / 40

Indicator Holder, rotates and locks firmly. Use the M8 hole for metric indicators or the 3/8" hole for inch indicator shanks.



Part No.	Dimensions	System
AMT-15064	20 x 15 mm	25 / 40
AMT-15065	25 x 15 mm	25 / 40

Riser, screws together to give height to locator elements. 15 mm diameter Space Saver® profile.



Part No.	Dimensions	System
AMT-15212	15 x 30 mm	25 / 40
AMT-15213	20 x 30 mm	25 / 40
AMT-15214	25 x 30 mm	25 / 40
AMT-15215	30 x 30 mm	25 / 40
AMT-15216	50 x 30 mm	25 / 40
AMT-15217	75 x 30 mm	25 / 40
AMT-15218	100 x 30 mm	25 / 40

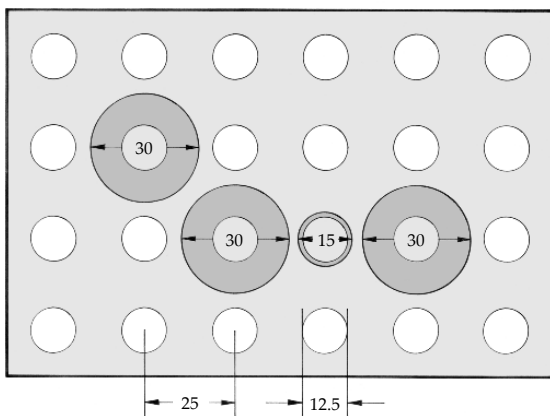
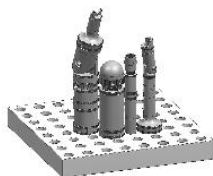
Riser, heavy duty risers for all elements. Can be used in CNC mill too.

SOLUTIONS®

How it works

Space Saver® Close-Nesting Locators

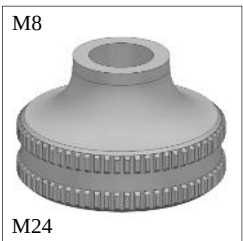
15 mm elements may be used with 30 mm items.





Part No.	Dimensions	Material
AMT-15075	20 x 15 mm, M6	25 / 40
AMT-15076	20 x 15 mm, M8	25 / 40
AMT-14075	20 x 15 mm, 1-4/20	25 / 40
AMT-14076	20 x 15 mm, 3/8-16	25 / 40

Attachment Base, direct to plate. Provides unobtrusive attachment in tight areas. Space Saver® 15 mm diameter profile.



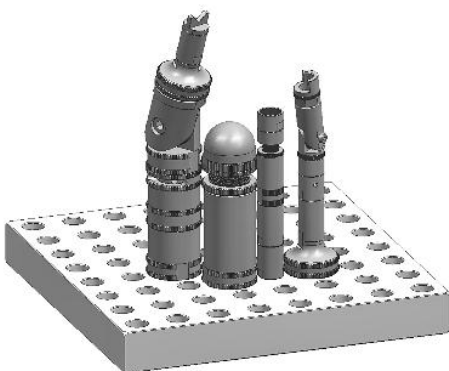
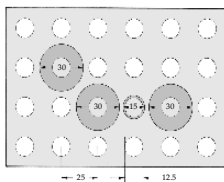
Part No.	Dimensions	System
AMT-15077	20 x 30 mm	25 / 40

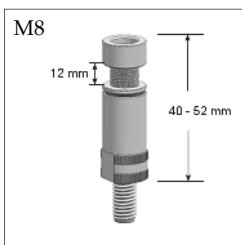
Attachment Base, Cross-System. M24 to M8. Works with all available threaded hole sizes. See Connectors for threads.

SOLUTIONS®

How it works

Use **Space Saver®** elements' 15 mm diameter profile to get into tight areas.





Part No.	Dimensions	System
AMT-15014	40—52 x 15mm. M6	25 / 40
AMT-15015	40—52 x 15 mm. M8	25 / 40

“StackJacks”®

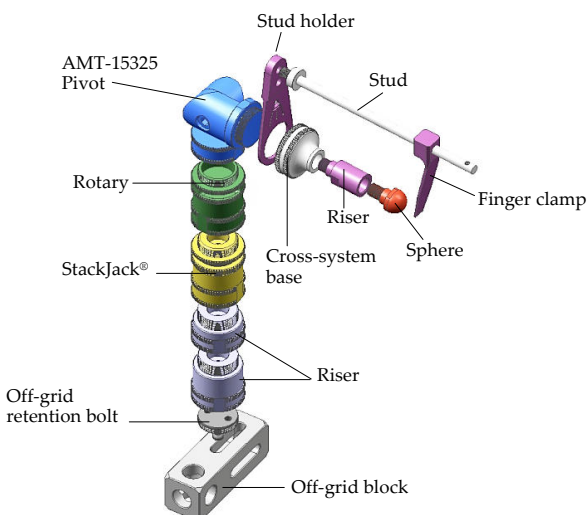
Jacks can be used in any “base to locator” assembly to give off-grid positioning. Features lock ring and shim design for tight areas. Features 15 mm diameter Space Saver® profile.

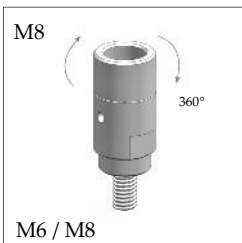


Part No.	Dimensions	System
AMT-15200	38—50 x 30 mm	25 / 40
AMT-15201	63—75 x 30 mm	25 / 40

“StackJacks”®

Jacks work alone or in stacks, directly on base plates and with M8 or M24 components. StackJacks®. Also may be used in CNC machining operations. Add a cone, flat or spherical top, an M10 or 3/8-16 screw connection disc and your “T” nut.





Part No.	Dimensions	System
AMT-15119	15 x 30mm M6	25
AMT-15120	15 x 30 mm M8	25

Rotary element with lock offers 360° of rotation. Locks securely in any position. Use M6 directly on plate, or use M8 in a stack of elements. Ideal for attachment points. Space Saver® 15 mm diameter profile.



Part No.	Dimensions	System
AMT-15320	35 x 30 mm	25 / 40

Rotary Element with lock offers 360° of rotation. Locks securely in any position. Use with Cross-System Adapter Base (AMT-15077) to use with space saver elements.



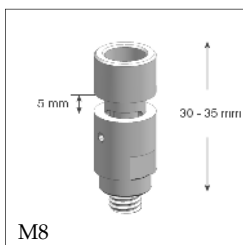
Part No.	Dimensions	System
AMT-15125	15 x 40 mm, M6	25
AMT -15127	15 x 40 mm, M8	25

Pivot Element. Combine with rotary element and accomplish many positions. Pivot locks securely. Ideal for attachment points on fascias and other parts. Combine with a Rotary to reach almost any location. Space Saver® 15 mm diameter profile.



Part No.	Dimensions	System
AMT-15325	50 x 30 mm	25 / 40

Pivot Element. Use alone to set a single angle or combine with Rotary Element and accomplish any position. Pivot locks securely.



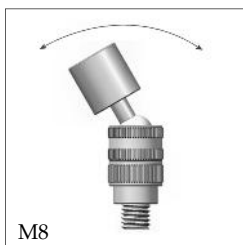
Part No.	Dimensions	System
AMT-15104	15 x 30—35mm M6	25
AMT-15105	15 x 30—35mm M8	25

Spring Loaded Element allows locators to “float” up and down for four way control of a hole using a Cone Element. Locks out in down position with 1/4 turn. Space Saver® 15 mm diameter profile.



Part No.	Dimensions	System
AMT-15305	60—75 x 30 mm	25 / 40

Spring Loaded Element allows locators to “float” up and down for four way control of a hole using a Cone Locator. Locks out in down position with 1/4 turn.



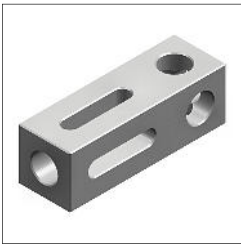
Part No.	Dimensions	System
AMT-15139	15 x 46 mm	25
AMT-15140	15 x 46 mm	25

Ball Joint. This device will take you anywhere. Our snap lock feature allows you to pivot, position and push the ball into a retained position. Holds location firmly while tightening threads. Space Saver® 15 mm diameter profile.



Part No.	Dimensions	System
AMT-15340	45 x 30 mm	25 / 40

Ball Joint. This device will take you anywhere. Our snap lock feature allows you to pivot, position and push the ball into a retained position while tightening threads. Holds location firmly.



Part No.	Dimensions	System
AMT-11505	25 x 25 x 75 mm	25
AMT-11605	40 x 40 x 120 mm	40



Off-Grid Block. Slide and lock into any position, rotate around 360° and vary the position by slot length.

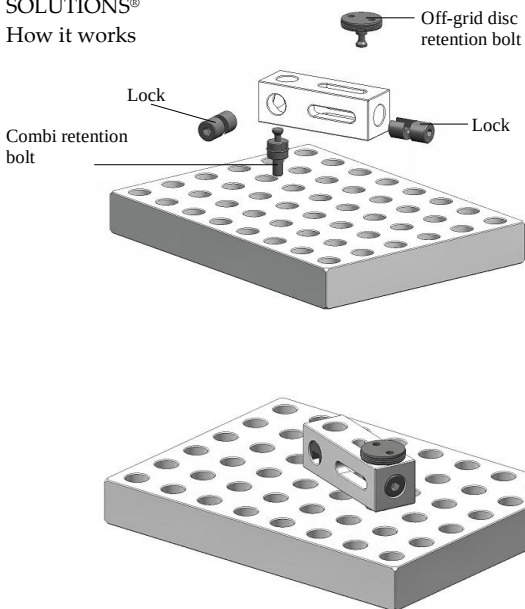


Part No.	Dimensions	System
AMT-11506	25 x 50 x 75 mm	25
AMT-11606	40 x 80 x 120 mm	40

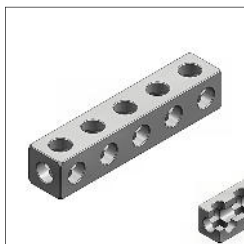
Off-Grid Block, bidirectional. Slide and lock into any position, rotate around 360° and vary the position by slot length.

SOLUTIONS®

How it works



See Connection Elements for more information



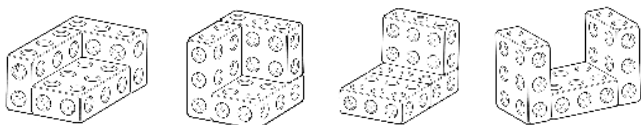
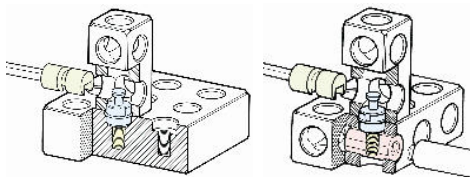
Solid Bars, 25 x 25

Part No.	Dimensions	System
AMT-21106	25 x 25 x 50	25
AMT-21107	25 x 25 x 75	25
AMT-21108	25 x 25 x 100	25
AMT-21109	25 x 25 x 125	25
AMT-21110	25 x 25 x 150	25
AMT-21111	25 x 25 x 175	25
AMT-21112	25 x 25 x 200	25

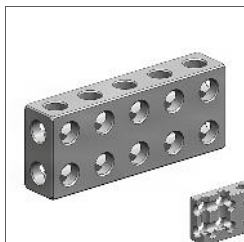
SOLUTIONS®

How it works

Solid Bars are used to extend elements and to make small fixtures. They are shown here using two different type of base plates.



AMT Solid Bars can be combined into many configurations



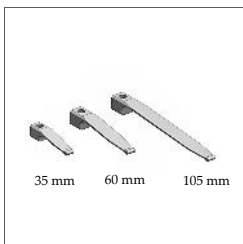
Solid Bars, 25 x 50

Part No.	Dimensions	System
AMT-21140	25 x 50 x 50	25
AMT-21141	25 x 50 x 75	25
AMT-21142	25 x 50 x 100	25
AMT-21143	25 x 50 x 125	25
AMT-21144	25 x 50 x 150	25
AMT-21145	25 x 50 x 175	25
AMT-21146	25 x 50 x 200	25



Part No.	Dimensions	System
AMT-16030	1 pc 16004 1 pc 16012 1 pc 16020	25 / 40
AMT-16031	1 pc 16004 1 pc 16012 1 pc 16023	25 / 40

Finger Clamp Assembly consisting of (1) Finger Clamp, (1) Clamp Stud and (1) Stud Holder. Note: AMT-16030 for use with 15 mm diameter Space Saver® components.

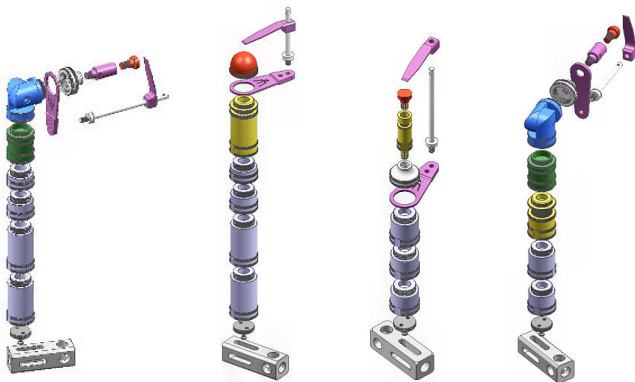


Part No.	Dimensions	System
AMT-16007	35 mm long	25 / 40
AMT-16004	60 mm long	25 / 40
AMT-16005	105 mm long	25 / 40

Finger Clamp

SOLUTIONS® Ideas

Use powerful AMT elements in one size, or combine sizes to make incredibly versatile locators that will get you into very small, hard to get into areas.





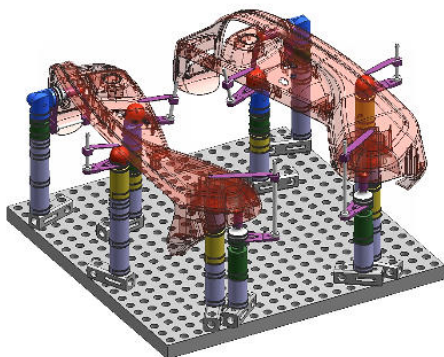
Clamp Stud

Part No.	Dimensions	System
AMT-16016	35 mm, M6	25 / 40
AMT-16012	60 mm, M6	25 / 40
AMT-16014	130 mm, M6	25 / 40
AMT-16018	100 mm, M10	40
AMT-16019	160 mm, M10	40
AMT-14015	60 mm	1/4-20
AMT-14014	130 mm	1/4-20
AMT-14017	60 mm	3/8-16
AMT-14018	130 mm	3/8-16



Stud Holder

Part No.	Dimensions	System
AMT-16020	15 mm	25 / 40
AMT-14036	15 mm	1/4-20
AMT-14038	15 mm	3/8-16
AMT-16023	30 mm	25 / 40
AMT-14037	30 mm	1/4-20
AMT-14039	30 mm	3/8-16



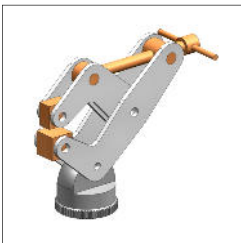
Plastic trim panel features AMT base plate, locators and clamping components. This tool uses both Space Saver® and 30mm locators.



Part No.	Dimensions	System
AMT-16040	M24 x 30 x 6.3	25 / 40

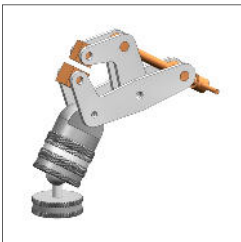


Toggle Clamp. Includes three different press feet and spindles.



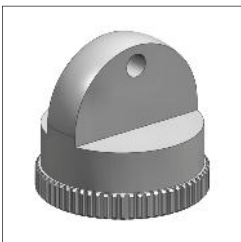
Part No.	Dimensions	System
AMT-16043	3/4" Clamp	25 / 40
AMT-16044	1" Clamp	25 / 40
AMT-16045	2" Clamp	25 / 40

Clamp, Kant Twist, with M24 Adapter Base.



Part No.	Dimensions	System
AMT-16046	3/4" Clamp	25 / 40
AMT-16047	1" Clamp	25 / 40
AMT-16048	2" Clamp	25 / 40

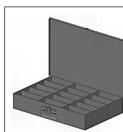
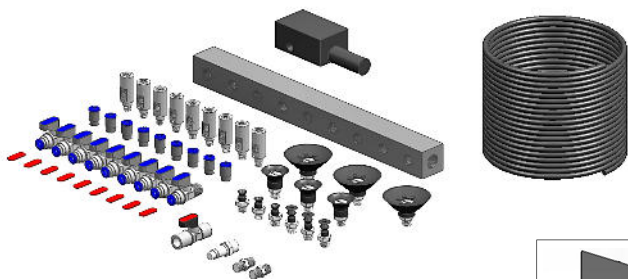
Clamp, Kant Twist, with Ball Joint and M24 Adapter Base



Part No.	Dimensions	System
AMT-15274	M24 x 30 mm, 3/4"	25 / 40
AMT-15275	M24 x 30 mm, 1"	25 / 40
AMT-15276	M24 x 30 mm, 2"	25 / 40

AMT Adapter Base with M24 thread for Kant Twist clamps shown above.

Kit #AMT-10160



AMT-10160

Vacuum Kit, 144 pieces

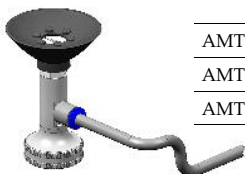
Use this vacuum kit to hold parts without clamps.

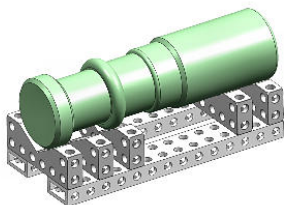
Includes a 9-port manifold and all needed connectors. Select any combination of cups to configure your own kit. AMT high precision components with hard coat anodize finish.

This suction cup kit assembles effortlessly and can hold flat parts tightly to the locators.

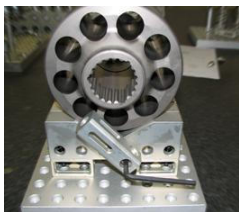
Can be used with all AMT kits or can be adapted to different thread sizes.

Part Number	Description	Qty.
AMT-15070	Vacuum extension	9
AMT-16110	Cup, flat 10mm	9
AMT-16111	Cup, flat 20mm	9
AMT-16112	Cup, flat 30mm	9
AMT-16113	Cup, flat 52mm	9
AMT-16118	Cup, 1.5 bell 11mm	9
AMT-16119	Cup, 1.5 bell 20mm	9
AMT-16120	Cup, 1.5 bell 33mm	9
AMT-16121	Cup, 1.5 bell 53mm	9
AMT-16126	Push-on barb 1/8" NPT 10-20mm	9
AMT-16127	Hollow screw fitting 30-50mm	9
AMT-16128	Adapter 1/8" male 30-50mm	9
AMT-16129	Compressed air inlet valve	1
AMT-16130	Reducer 1/4" x 1/8"	1
AMT-16131	Nipple, 1/8"	1
AMT-16132	Adapter 1/8" female x 1/8"	9
AMT-16133	Vacuum generator	1
AMT-16134	Reducer, 3/8" male x 1/8" female	1
AMT-16135	Manifold, nine 1/4" side ports / two 3/8" end ports	1
AMT-16136	Plug 3/8"	1
AMT-16137	Valve 1/4" NPT x 1/4" tube	1
AMT-16138	Adapter, Swift-Fit male 1/4" tube x 1/4" NPT	9
AMT-16139	Handle, red	9
AMT-16140	Tubing, polyurethane 1/4" x 50'	1
AMT-10043	Storage drawer, adjustable	1

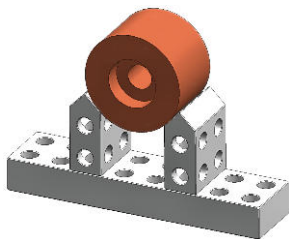
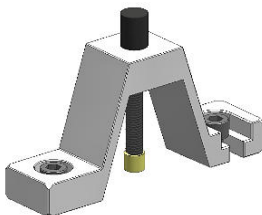


SOLUTIONS®**Ideas**

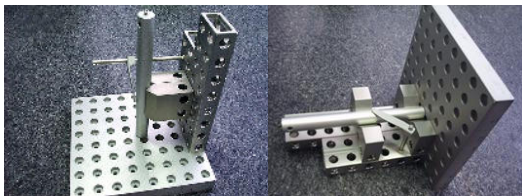
Vee Blocks mounted on a Grid Plate or Hollows create an ideal support for a long cylindrical assembly.

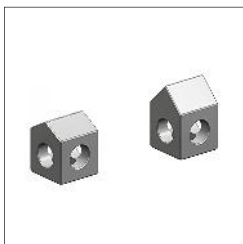


Clamps are designed for optimum diameter clamping and solid holding. Easily remove part by loosening screw and pivoting off part.



Two Prism Blocks may be combined on a base plate to form a vee-channel to support a cylindrical part.





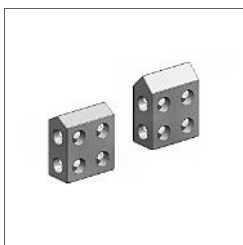
Part No.	Dimensions	System
AMT-11510	25 x 25 x 37.5 mm, 90°	25
AMT-11610	40 x 40 x 60 mm, 90°	40
AMT-11511	25 x 25 x 31.25 mm, 120°	25
AMT-11611	40 x 40 x 50 mm, 120°	40

Prism Blocks form a modular Vee Block when put side by side.



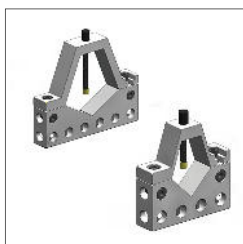
Part No.	Dimensions	System
AMT-11515	25 x 25 x 62.5 mm, 90°	25
AMT-11615	40 x 40 x 100 mm, 90°	40
AMT-11516	25 x 25 x 56.25 mm, 120°	25
AMT-11616	40 x 40 x 90 mm, 120°	40

Prism Blocks form a modular Vee Block when put side by side.



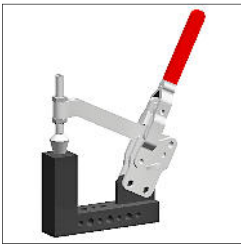
Part No.	Dimensions	System
AMT-11530	25 x 50 x 62.5 mm, 90°	25
AMT-11630	40 x 80 x 100 mm, 90°	40
AMT-11531	25 x 50 x 56.25 mm, 120°	25
AMT-11631	40 x 80 x 90 mm, 120°	40

Prism Blocks form a modular Vee Block when put side by side.



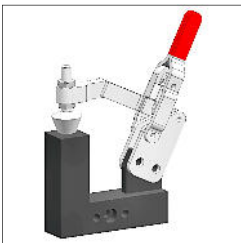
Vee Block with Clamp

Part No.	Dimensions	System
AMT-11550	25 x 50 x 100 mm, 90°	25
AMT-11551	Clamp only for 11550	25
AMT-11650	40 x 80 x 160 mm, 90°	40
AMT-11651	Clamp only for 11650	40
AMT-11560	25 x 50 x 150 mm, 120°	25
AMT-11561	Clamp only for 11561	25
AMT-11660	40 x 80 x 240 mm, 120°	40
AMT-11661	Clamp only for 11660	40



Part No.	Dimensions	Material
AMT-14108A	119 x 78 mm	ALU 7075-T6
AMT-14108D	119 x 78 mm	Delrin®

Net block with angled clamp, 119 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.

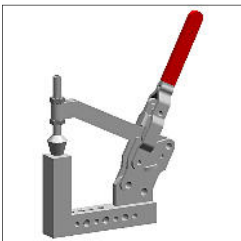
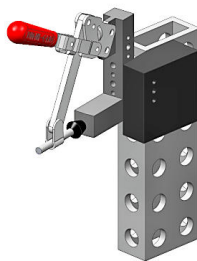


Part No.	Dimensions	Material
AMT-14110A	81 x 63 mm	ALU 7075-T6
AMT-14110D	81 x 63 mm	Delrin®

AMT Net Block with angled clamp, 81 mm x 63 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.

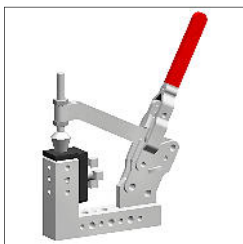
Simplify your fixture build process with AMT clamp blocks.

Ask about special Porkies® blocks made to your specifications



Part No.	Dimensions	Material
AMT-14111A	116 x 78 mm	ALU 7075-T6
AMT-14111D	116 x 78 mm	Delrin®

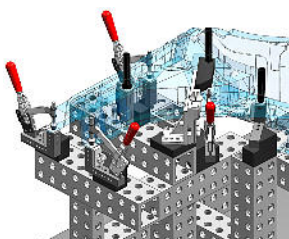
AMT Net Block with angled clamp, 116 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



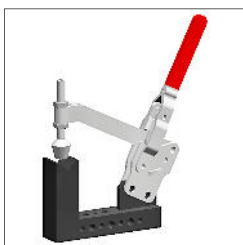
Part No.	Dimensions	Material
AMT-14112A	119 x 73 mm	ALU 7075-T6
AMT-14112D	119 x 73 mm	Delrin®

AMT Net Block with angled clamp and 5 mm shim, 119 mm x 73 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.

AMT angled clamp blocks apply equal pressure when clamping two pieces together; clamps move into surface of net orthogonally providing smooth equal pressure.



Locating & Clamping



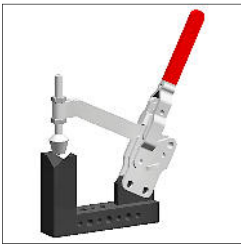
Part No.	Dimensions	Material
AMT-14113A	90 x 78 mm	ALU 7075-T6
AMT-14113D	90 x 78 mm	Delrin®

AMT Net Block with angled clamp and 45° Vee, 90 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



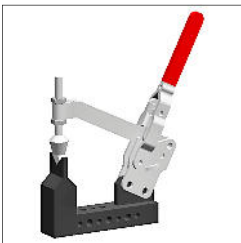
Part No.	Dimensions	Material
AMT-14114A	119 x 78 mm	ALU 7075-T6
AMT-14114D	119 x 78 mm	Delrin®

AMT Net Block with angled clamp and parallel 45° Vee, 119 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



Part No.	Dimensions	Material
AMT-14115A	119 x 78 mm	ALU 7075-T6
AMT-14115D	119 x 78 mm	Delrin®

AMT Net Block with angled clamp and 45° vee x 45° vee, 119 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



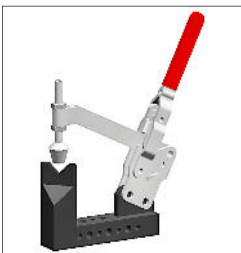
Part No.	Dimensions	Material
AMT-14116A	119 x 78 mm	ALU 7075-T6
AMT-14116D	119 x 78 mm	Delrin®

AMT Net Block with angled clamp and perpendicular 45° knife vee, 119 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



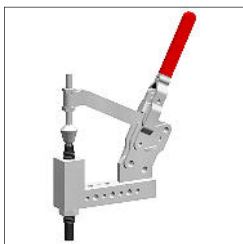
Part No.	Dimensions	Material
AMT-14117A	119 x 78 mm	ALU 7075-T6
AMT-14117D	119 x 78 mm	Delrin®

AMT Net Block with angled clamp and inline 45° knife vee, 119 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



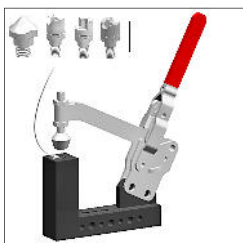
Part No.	Dimensions	Material
AMT-14118A	119 x 78 mm	ALU 7075-T6
AMT-14118D	119 x 78 mm	Delrin®

AMT Net Block with angled clamp and 45° x 45° knife vee, 119 mm x 78 mm (patent pending). Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



Part No.	Dimensions	Material
AMT-14119A	119 x 55 mm	ALU 7075-T6
AMT-14119D	119 x 55 mm	Delrin®

AMT Net Block with angled clamp and adjustable screw with ball locator (patent pending). Lock nut provides positive stop at desired position. Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



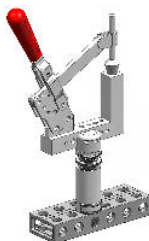
Part No.	Dimensions	Material
AMT-14120A	120 x 78 mm	ALU 7075-T6
AMT-14120D	120 x 78 mm	Delrin®

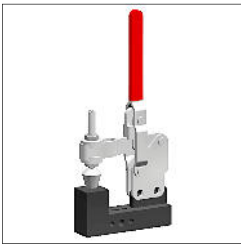
AMT Net Block with angled clamp and threaded bore M8 in net, 120 mm x 78 mm (patent pending). Screw in any AMT modular M8 top element. Dowel and screw design for conventional builds or add AMT-14102 adapter for use and reuse.



Part No.	Dimensions	Material
AMT-14102	30 x 30 mm	ALU 7075-T6

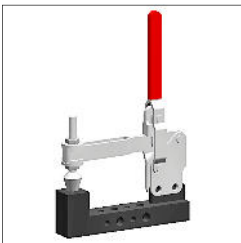
AMT Net Block Adapters let you use conventional nets and clamps on any tool. Each block is supplied with two 5 mm dowels and one M6x1 stainless steel screw for mounting (patent pending)





Part No.	Dimensions	Material
AMT-14106A	95 x 45 mm	ALU 7075-T6
AMT-14106D	95 x 45 mm	Delrin®

AMT Net Block with straight-line clamp, 95 mm x 45 mm. Dowel and screw design for conventional builds or add AMT-14102 adapter for use on AMT modular builds.



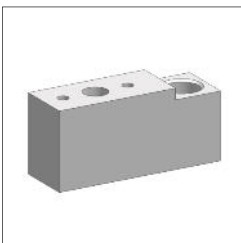
Part No.	Dimensions	Material
AMT-14107A	140 x 45 mm	ALU 7075-T6
AMT-14107D	140 x 45 mm	Delrin®

AMT Net Block with straight-line clamp, 140 mm x 45 mm . Dowel and screw design for conventional builds or add AMT-14102 adapter for use on AMT modular builds.



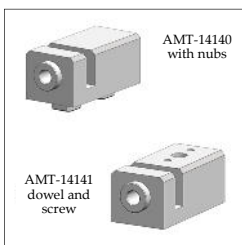
Part No.	Dimensions	Material
AMT-14109A	95 x 95 mm	ALU 7075-T6
AMT-14109D	95 x 95 mm	Delrin®

AMT Net Block with straight-line clamp, 95 mm x 95 mm. Dowel and screw design for conventional builds or add AMT-14102 adapter for use on AMT modular builds.



Part No.	Dimensions	System
AMT-14135	75 x 35 mm	DPC

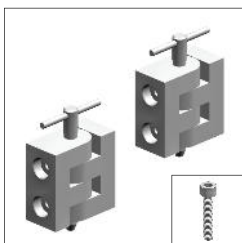
AMT Pin Block holds NAAMS style pins using the traditional dowel and screw method, 75 mm x 35 mm.



Part No.	Dimensions	System
AMT-14142	25 x 25 x 50 mm	25
AMT-14140	40 x 40 x 80 mm	40
AMT-14141	40 x 40 x 80 mm	DPC



AMT Modular SPC Set Master with bushing. Available with modular nubs or dowel, per construction. Available in nub block or dowel and screw type construction.

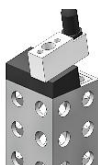
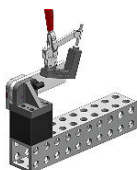
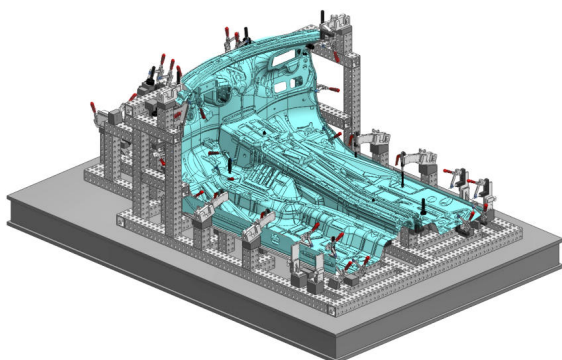


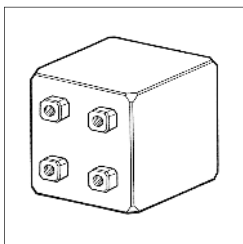
Part No.	Dimensions	System
AMT-14144	40 x 80 x 80 mm	40
AMT-17266	M10 x 43 Spare screw for Hinge Assembly	40

Universal clevis / hinge machined of tool steel to high tolerances. Hinges are always "in grid" at 90° and 180°. Packaged in sets of two, includes mounting hardware (patent pending)

SOLUTIONS® How it works

Dowel & Screw connections using AMT Net Blocks on a production checking fixture for a five part assembly.





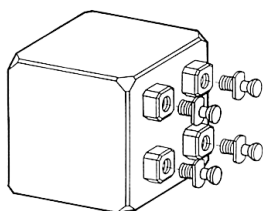
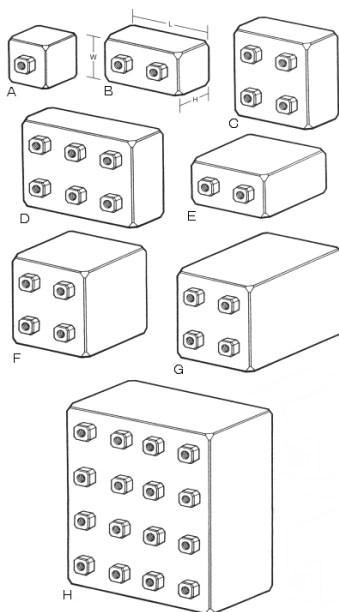
Part No.	Dimensions L x W x H	System	Type
AMT-14701	25 x 25 x 25	25	A
AMT-14702	25 x 50 x 25	25	B
AMT-14720	50 x 50 x 25	25	C
AMT-14721	50 x 75 x 25	25	D
AMT-14732	25 x 50 x 50	25	E
AMT-14740	50 x 50 x 50	25	F
AMT-14741	50 x 50 x 75	25	G
AMT-14750	100 x 75 x 50	25	Not shown
AMT-14756	100 x 100 x 50	25	H

Any size available on request.

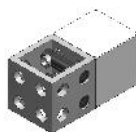
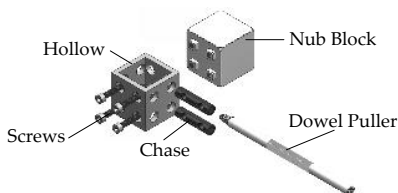
Pre-squared blocks for you to machine to your own specifications. 0.03mm / 0.001" accuracy for flatness, perpendicularity and parallelism.

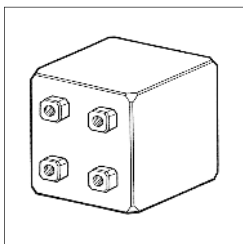
AMT nub blocks can be used for:

- ⊕ Screw & Dowel planes
- ⊕ Pin blocks
- ⊕ Bushing blocks
- ⊕ Pillow blocks
- ⊕ Net blocks
- ⊕ NC free form surfaces



Machined on all six sides to high accuracies.





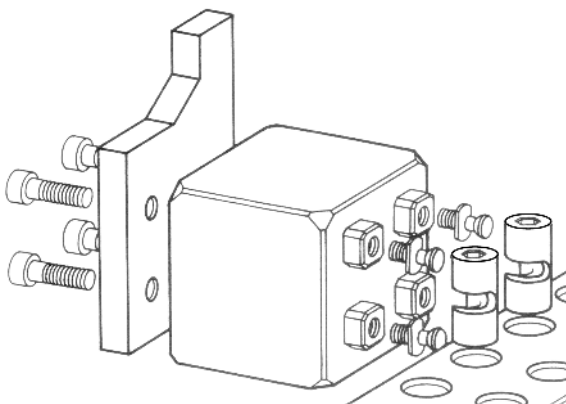
Pre-squared blocks for you to machine to your own specifications.

Part No.	Dimensions L x W x H	System	Type
AMT-14801	40 x 40 x 40	40	A
AMT-14802	40 x 80 x 40	40	B
AMT-14821	40 x 80 x 80	40	E
AMT-14848	80 x 80 x 40	40	C
AMT-14859	80 x 80 x 80	40	F
AMT-14862	80 x 80 x 120	40	G

SOLUTIONS® How it works



Locating & Clamping



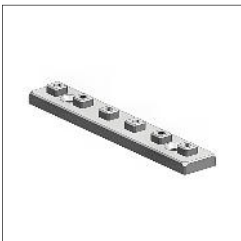
Nub blocks have one surface that fits precisely into the AMT® grid pattern using shortened retention bolts or screws to fasten. The entire block may be machined into any form or it may serve as a base for elements that can be added later.

Plug and lock a nub block onto an AMT Hollow, then mount it in your CNC mill and machine. The finished part will mount directly onto your tool accurately.

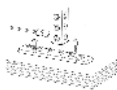


Part No.	Dimensions	System
AMT-14510	20 x 12 mm, M12	Metric
AMT-14511	20 x 12 mm 1/2-13	English

AMT 80x80 Hollow to Plate Pin with Delrin® Washer. Ensures accurate alignment between a fixture and plate. Special threads available on request.



Part No.	Dimensions	System
AMT-14546	7 x 25 x 150 mm	25

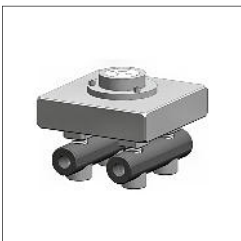


AMT Wood Attachment Plate. Ideal for fastening wood substrates to Hollows.



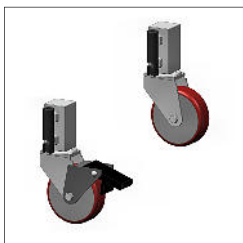
Part No.	Dimensions	System
AMT-14540	80 x 40 x 80 mm	40

AMT Adjustable Leveling Foot Assembly. Furnished with mounting hardware.



Part No.	Dimensions	System
AMT-14541	80 x 80 x 20 mm	40

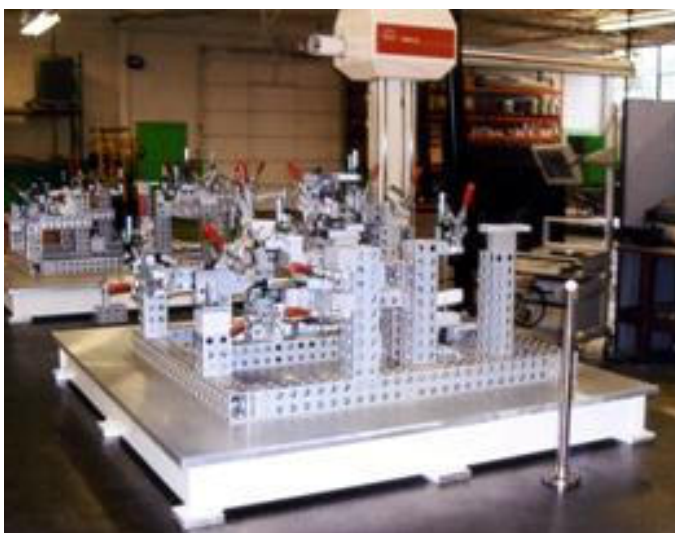
AMT Bubble Level mounted on AMT Block. Includes all mounting hardware.



Part No.	Dimensions	System
AMT-14163	Caster, 6" w/out brake	25 / 40
AMT-14164	Caster, 6" with brake	25 / 40
AMT-14161	Caster, 4" w/out brake	25 / 40
AMT-14162	Caster, 4" with brake	25 / 40

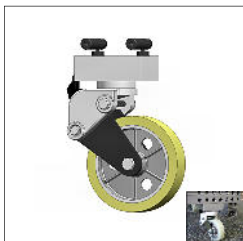
AMT Caster Assembly, pivoting. Available with or without brake.

SOLUTIONS®
Ideas



Locating & Clamping

"Be Creative...Think Modular"



Part No.	Dimensions	System
AMT-14167	Caster, 5" with brake	

Spring loaded caster assembly with soft, non-flattening wheel, plate, brake and shock absorber.



SOLUTIONS®

Ideas: Kits



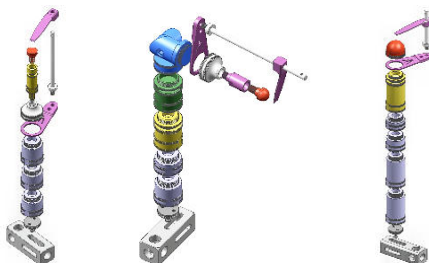
AMT-10029,

33 piece Locator Element Kit for System 25

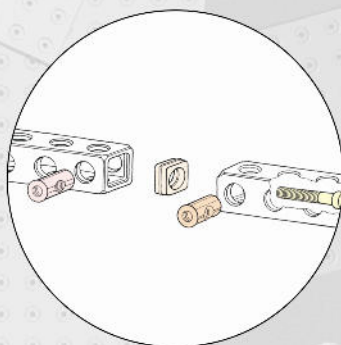
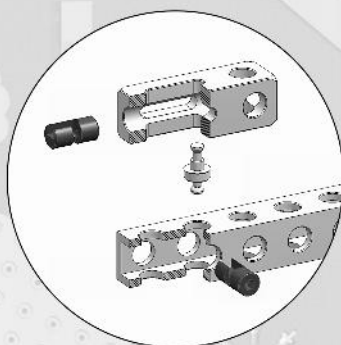
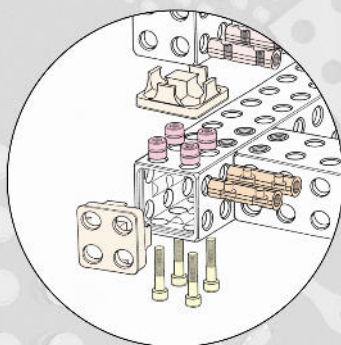


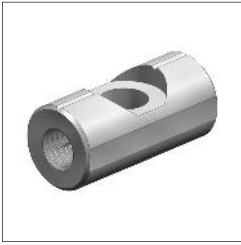
AMT-10030,

33 piece Locator Element Kit for System 40



See more Kits on pages 93–124.





AMT Chase, Single



Part No.	Dimensions	System
AMT-17141	12 x M6 x 25 mm	25
AMT-17241	19 x M10 x 40 mm	40
AMT-17245	19 x M12 x 40 mm	40



AMT Nut, Single

Part No.	Dimensions	System
AMT-17120	12 x M6 x 25 mm	25
AMT-17220	19 x M10 x 40 mm	40
AMT-17224	19 x M12 x 40 mm	40



AMT Chase, Double



Part No.	Dimensions	System
AMT-17142	12 x M6 x 50 mm	25
AMT-17242	19 x M10 x 80 mm	40
AMT-17246	19 x M12 x 80 mm	40



AMT Nut, Double

Part No.	Dimensions	System
AMT-17121	12 x M6 x 50 mm	25
AMT-17221	19 x M10 x 80 mm	40
AMT-17225	19 x M12 x 80 mm	40



AMT Chase, Triple

Part No.	Dimensions	System
AMT-17143	12 x M6 x 75 mm	25
AMT-17243	19 x M10 x 120 mm	40
AMT-17253	19 x M12 x 120 mm	40



AMT Nut, Triple

Part No.	Dimensions	System
AMT-17122	12 x M6 x 75 mm	25
AMT-17222	19 x M10 x 120 mm	40
AMT-17226	19 x M12 x 120 mm	40



AMT Chase, Quadruple

Part No.	Dimensions	System
AMT-17244	19 x M10 x 160 mm	40
AMT-17254	19 x M12 x 160 mm	40



AMT Nut, Quadruple

Part No.	Dimensions	System
AMT-17223	19 x M10 x 160 mm	40
AMT-17227	19 x M12 x 160 mm	40

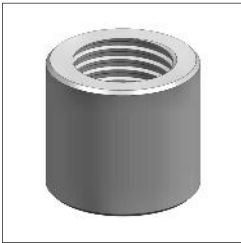


Part No.	Dimensions	System
AMT-17102	12.5 mm	25
AMT-17202	20 mm	40



Shouldered Dowel

AMT Shouldered Dowel for locating. Threaded for Dowel Puller (page 89).



Part No.	Dimensions	System
AMT-17103	12.5 mm	25
AMT-17203	20 mm	40

AMT Plain Dowel. Threaded for Dowel Puller (page 89).

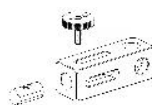


Screw, socket head cap, stainless steel

Part No.	Dimensions	System
AMT-17160	M6 x 15 mm	25
AMT-17161	M6 x 20 mm	25
AMT-17162	M6 x 30 mm	25
AMT-17163	M6 x 40 mm	25
AMT-17164	M6 x 50 mm	25
AMT-17165	M6 x 60 mm	25
AMT-17167	M6 x 80 mm	25
AMT-17260	M10 x 15 mm	40
AMT-17261	M10 x 20 mm	40
AMT-17262	M10 x 30 mm	40
AMT-17263	M10 x 40 mm	40
AMT-17264	M10 x 50 mm	40
AMT-17265	M10 x 60 mm	40
AMT-17267	M10 x 80 mm	40



AMT Non-centering Disc. Special thread sizes available in minimum quantities of 100 pieces.



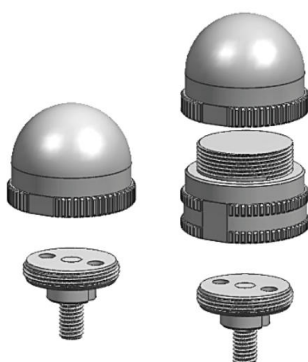
Part No.	Dimensions	System
AMT-17173	M24 x M6	25
AMT-17273	M24 x M10	40
AMT-14073	M24 x 1/4-20	1/4-20



AMT Centering Disc Locates in System 25 or 40 holes for accurate positioning of locating elements.

Part No.	Dimensions	System
AMT-17171	M24 x M6 x 12.5 mm	25
AMT-17271	M24 x M10 x 20 mm	40

SOLUTIONS® How it works

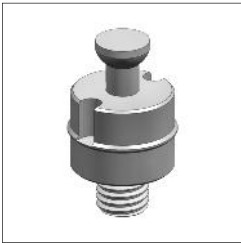
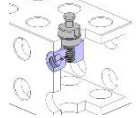
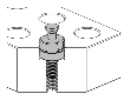


Disc connection elements are designed to attach AMT® 30 mm diameter components to plates, bars and hollows.



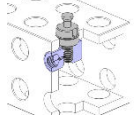
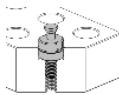
Combi Retention Bolt

Part No.	Dimensions	System
AMT-17112	12.5 mm x M6	25
AMT-17212	20 mm x M10	40



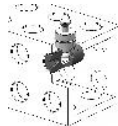
Combi Retention Bolt, shortened

Part No.	Dimensions	System
AMT-17115	12.5 mm x M6	25
AMT-17215	20 mm x M10	40



Double Retention Bolt

Part No.	Dimensions	System
AMT-17113	12.5 mm	25
AMT-17213	20 mm	40



Off-Grid Retention Bolt

Part No.	Dimensions	System
AMT-17118	12.5 mm x 6.7 mm	25
AMT-17218	20 mm x 10.7 mm	40





Part No.	Dimensions	System
AMT-17172	M24 x 12.5 mm	25
AMT-17272	M24 x 20 mm	40

Disc Type Retention Bolt with Shoulder



Part No.	Dimensions	System
AMT-17174	M24 x 6.7 mm	25
AMT-17274	M24 x 10.7 mm	40



Disc Type Retention Bolt, Off-Grid



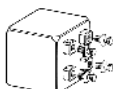
Base



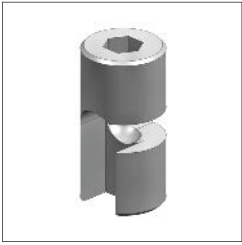
Disc Retention Bolt



Part No.	Dimensions	System
AMT-17117	M6	25
AMT-17217	M10	40



Retention Bolt, shortened. Secure nub blocks to tools with Retention Bolt Locks.



Part No.	Dimensions	System
AMT-17133	25 mm	25
AMT-17233	40 mm	40



Lock for Retention Bolt, Steel.

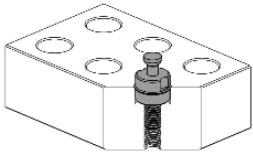
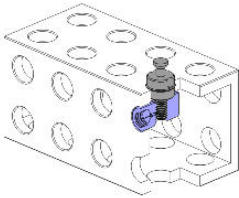


Part No.	Dimensions	System
AMT-17135	50 mm	25
AMT-17235	80 mm	40



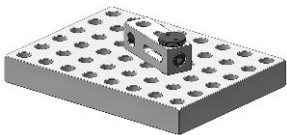
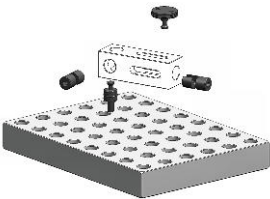
Lock for Retention Bolt, Long, Steel.

SOLUTIONS®
How it works



Combi Retention Bolts can be attached to an AMT Hollow using a Nut (above left) or threaded directly into a Grid Plate (above right)

Off-Grid Bars attach to AMT Grid Plates using a Combi Retention Bolt, Lock and Nut (below left). Assembly with Off-Grid Disc Retention Bolt for fixing 30 mm locator elements (below right). See pages 74—80 for bolts, locks and nuts.

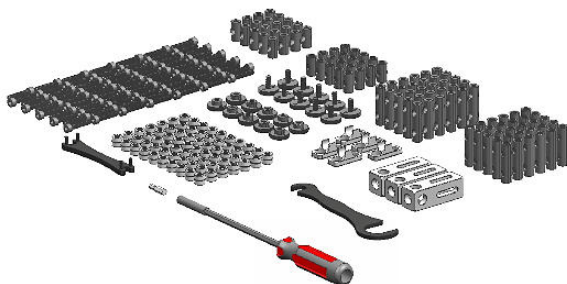


SOLUTIONS®

How it works

AMT-10121

Connection Element Kit, Screw Type



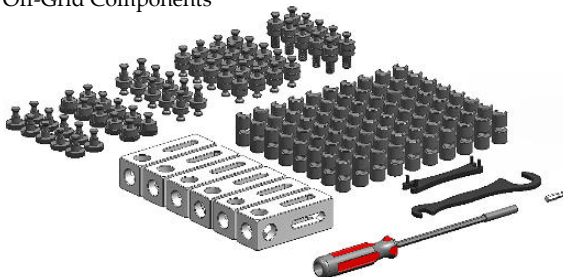
AMT-10127

Connection Element Kit, Retention Type



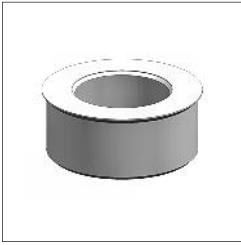
AMT-10128

Connection Element Kit, Retention Type with Off-Grid Components



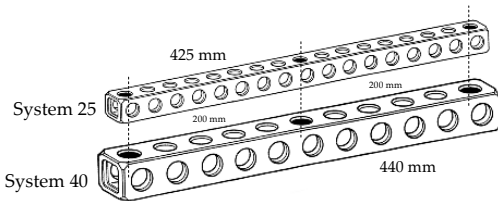
Think Modular —
Buy Kits and Save

See more in our Kits section, pages 93—124



Part No.	Dimensions	System
AMT-17205	Ø12.5mm / 20mm	40 to 25

AMT Cross-System Sleeve, AMT 40 to 25



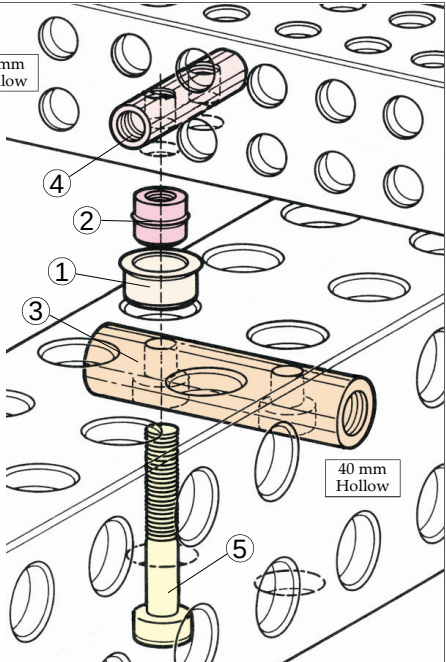
System 25 and System 40 items will line up at 200 mm intervals and may be connected with step-down elements.

SOLUTIONS®

How it works

Cross-System Screw Connection using 25mm and 40mm AMT Hollows.

1. Insert cross-system sleeve into the 40mm hollow.
2. Insert shouldered dowel into reducer sleeve and put the 25mm Hollow on top of the 40mm Hollow.
3. Insert a double chase in the 40mm Hollow.
4. Insert a double nut in the 25mm Hollow.
5. Insert a hex head screw through the bottom of the 40mm Hollow and tighten.





Part No.	Dimensions	System
AMT-17216	12.5mm shoulder with M6 thread / 20mm shoulder with retention knob	25 to 40

Cross-System Combi Bolt allows you to go from Systems 25 to 40 in seconds. Screw into connector on 25 component and use the Retention Lock on the 40 side.



Part No.	Dimensions	System
AMT-17116	12.5mm shoulder with retention knob / 20mm shoulder with M10 thread	40 to 25

Cross-System Combi Bolt allows you to go from Systems 25 to 40 using a 25 Retention Lock on one side and a 40 Nut on the other. Ideal for removable details.



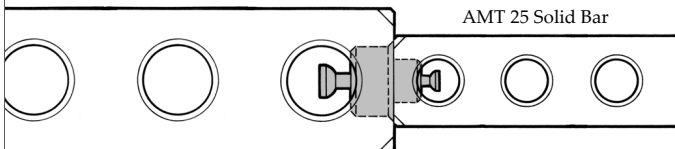
Part No.	Dimensions	System
AMT-17219	12.5mm shoulder with retention knob / 20mm shoulder with retention knob	40 to 25

Cross-System Retention Bolt allows you to go from Systems 25 to 40 using a Retention Lock on both sides.

SOLUTIONS® How it works

AMT 40 Solid Bar

AMT 25 Solid Bar



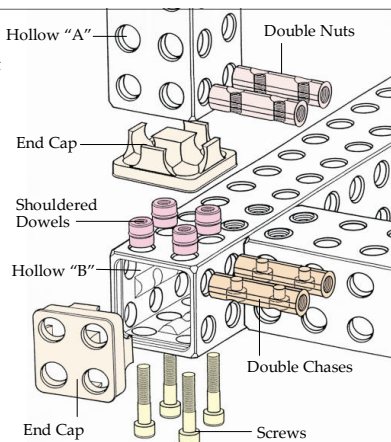
The Cross-System Retention Bolt connects two differently sized Solid Bars or Hollows. Requires one 40 and one 25 Lock to fasten.

Screw Connection

Use this method for permanent fixtures that will require little or no modification

Assembly sequence:

1. Insert end caps
2. Insert Shouldered Dowels into Hollow B
3. Place Hollow A into position over shouldered Dowels in Hollow B
4. Insert Double Nuts into Hollow A and Double Chases into Hollow B
5. Insert Screws through Hollow B



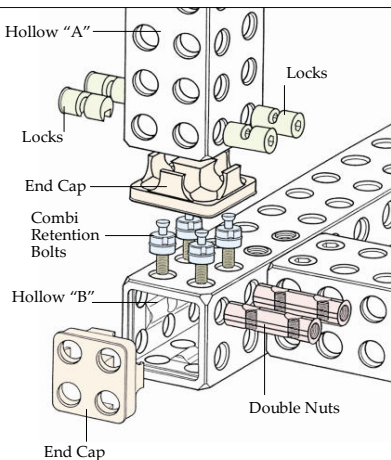
SOLUTIONS®

Combi Retention Connection

Useful for fixtures that require quick and easy removal of certain segments.

Assembly sequence:

1. Insert end caps
2. Insert Double Nuts into Hollow B
3. Screw Combi Retention Bolts into Hollow B
4. Place Hollow A into position over Combi Retention Bolts in Hollow B
5. Insert Locks in Hollow A



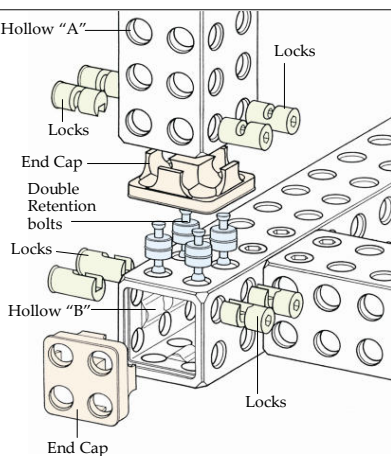
How it works

Double Retention Connection

Use this method when rapid part removal or modification is required.

Assembly sequence:

1. Insert end caps
2. Insert Double Retention Bolts into Hollow B
3. Place Hollow A into position over Double Retention Bolts in Hollow B
4. Insert Locks in Hollows A and B





Part No.	Dimensions	System
AMT-17147	25 x 25 mm	25
AMT-17247	40 x 40 mm	40

End Cap. Use in Hollow to provide a flat end for easy attachment to other Hollows or Grid Plates.



Part No.	Dimensions	System
AMT-17146	25 x 25 mm	25
AMT-17252	40 x 40 mm	40

Joining Cap, end to end. Use between two Hollows for perfectly aligned end-to-end connection. Prevents pivoting.



Part No.	Dimensions	System
AMT-17148	25 x 50 mm	25
AMT-17248	40 x 80 mm	40
AMT-17251	120 x 160 mm	40

End Cap, rectangle. Use in rectangular Hollow to provide a flat end for easy attachment to other Hollows or Grid Plates.



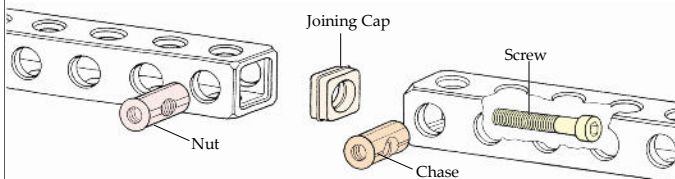
Part No.	Dimensions	System
AMT-17149	50 x 50 mm	25
AMT-17249	80 x 80 mm	40

End Cap, square. Use in large Hollow to provide a flat end for easy attachment to other Hollows or Grid Plates.

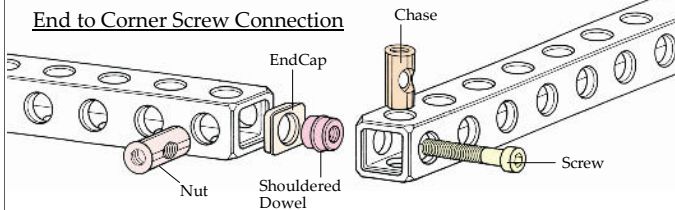
SOLUTIONS®

How it works

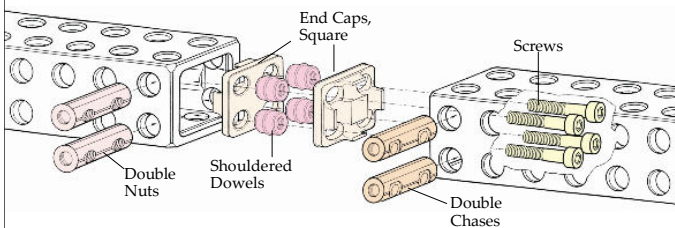
End to End Screw Connection with Double Joining Cap



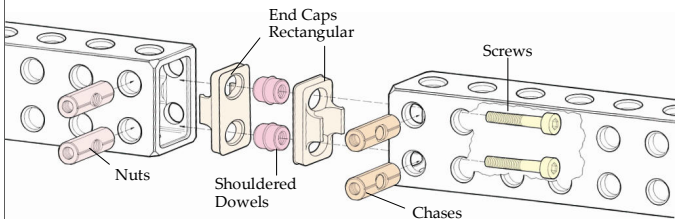
End to Corner Screw Connection



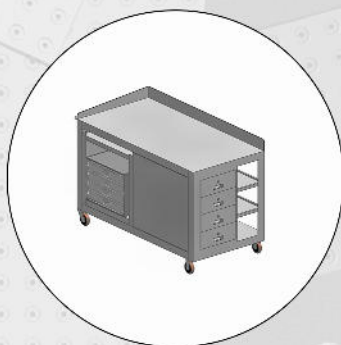
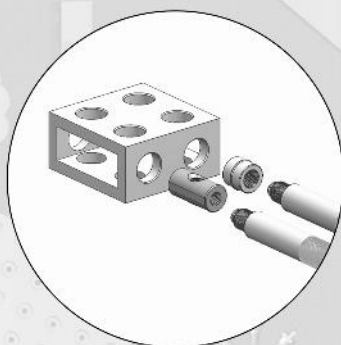
End to End Screw Connection with Square End Caps



End to End Screw Connection with Rectangular End Caps



Think modular. Simple assembly of all types of joins and corners. You can also attach square and rectangular Hollows together end-to-end.



25
40

American Modular Tooling



Part No.	Material	System
AMT-10060	Steel	25 / 40

AMT Wrench effortlessly fastens and unfastens AMT locating elements. Steel with 13 mm and 28 mm ends.



Part No.	Material	System
AMT-10066	Steel	25 / 40

AMT Spanner tightens retention and screw elements. Durable steel handle with tool steel pins.

SOLUTIONS® How it works

“AMT Work Tested Tools”®
for use with AMT sizes
25 and 40.



Tools & Storage

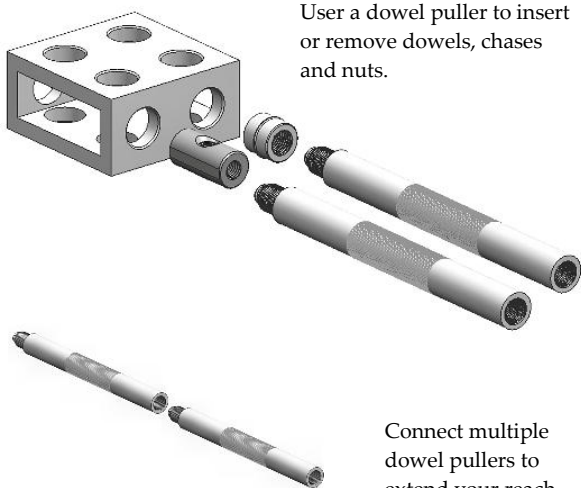


Part No.	Dimensions	Material
AMT-10061	AMT 25, M6	Aluminum
AMT-10063	AMT 40, M10	Aluminum

AMT Dowel Puller. This tool will fit into the threaded ends of all chases, nuts and dowels. It will allow you to insert or remove them easily.

SOLUTIONS® How it works

"AMT Work Tested Tools"®
for use with AMT sizes 25 and 40.



Use a dowel puller to insert or remove dowels, chases and nuts.

Connect multiple dowel pullers to extend your reach



Part No.	Dimensions	Material
AMT-10053	OAL 275	Steel / Poly Handle

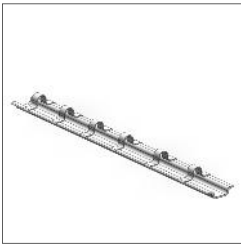
AMT Hex and Screw Driver with interchangeable 3, 4, 5 and 8 mm hex heads and one straight slot head. All time favorite PWM driver for size 25 only.



AMT Hex Bit tools with polished chrome finish.

Part No.	Description
AMT-10080	Hex bit, 3 mm
AMT-10081	Hex bit, 4 mm
AMT-10082	Hex bit, 5 mm
AMT-10083	Hex bit, 6 mm
AMT-10084	Hex bit, 7 mm
AMT-10085	Hex bit, 8 mm
AMT-10086	Hex bit, 9 mm
AMT-10087	Hex bit, 10 mm
AMT-10088	Hex bit, 11 mm
AMT-10089	Hex bit, 12 mm

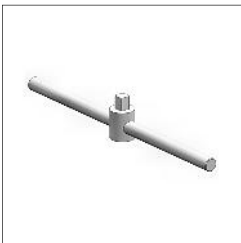
“AMT Work Tested Tools”[®]
Excellent quality, long lasting.



Tools & Storage

Part No.	Description
AMT-10099	Stand for 1/4" drive bits
AMT-10100	Stand for 3/8" drive bits

AMT Hex Bit Storage Stand keeps your bits organized and handy.



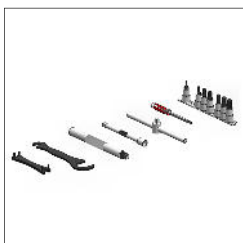
Part No.	Description
AMT-10097	T-handle, 1/4" drive
AMT-10092	T-handle, 3/8" drive

AMT “T” Handle with polished chrome finish.



Part No.	Description
AMT-10096	Extension, 1/4" drive
AMT-10091	Extension, 3/8" drive

Hex Bit Extension can be used alone as hand driver or with T-handle.



Part No.	Description
AMT-10094	Tool kit, 3/8" drive for AMT 40
Contents	1 each: Wrench, Spanner Tool, Dowel Puller, Extension, T-Handle, 7 Hex Bits 5—12mm

AMT Tool Kit works with all AMT 40 kits and components.



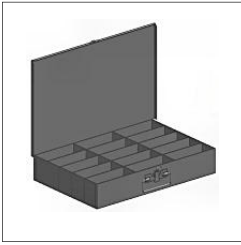
Part No.	Description
AMT-10095	Tool kit, 1/4" drive for AMT 25
Contents	1 each: Wrench, Spanner Tool, Dowel Puller, Extension, T-Handle, 6 Hex Bits 3—8mm

AMT Tool Kit works with all AMT 25 kits and components.



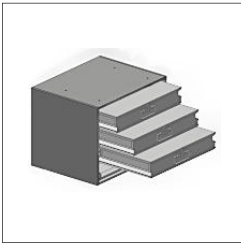
Spare wrenches, spanner tools and dowel pullers are shown on pages 88—89.

"AMT Work Tested Tools"®



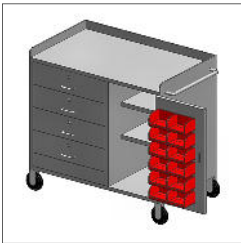
Part No.	Description
AMT-10043	Storage drawer with adjustable dividers

AMT Storage Drawers are supplied with each small kit and extension kit.



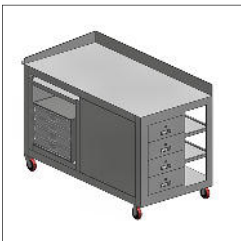
Part No.	Description
AMT-10040	Storage case

AMT Four Drawer Cabinet has three drawers with differently configured dividers and one drawer with no dividers. Keep components organized and clean. Easily transport components to site to build or change fixtures.

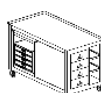


Part No.	Description
AMT-10048	Storage cabinet

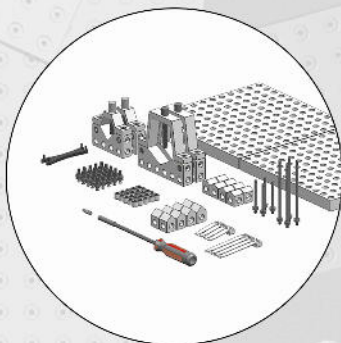
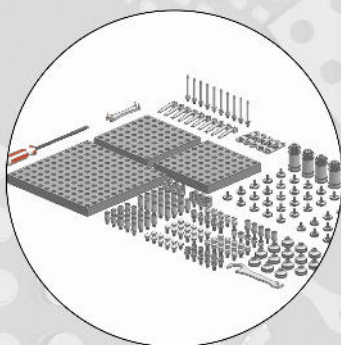
AMT Rolling Cabinet is ideal for intermediate sized kits, providing a work surface to build on. Removable poly containers allow you to take parts and components where you need them.



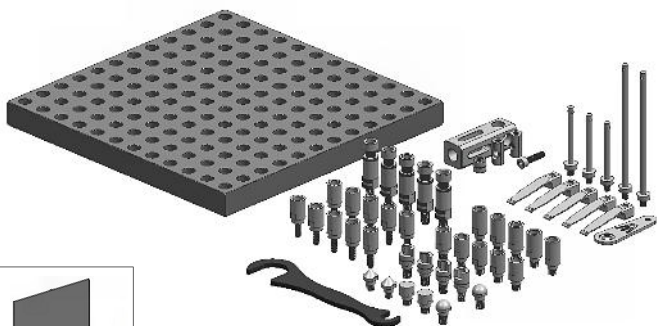
Part No.	Description
AMT-10049	Large storage cabinet



AMT Rolling Cabinet 10049, designed for large kits can hold hundreds of parts, including Hollows up to 2000 mm long and base plates. A granite surface plate for the top is available as an option.



Kit #AMT-10007

**AMT-10007****Fixturing Kit, 53 pieces, System 25**

AMT Fixturing Kits feature:

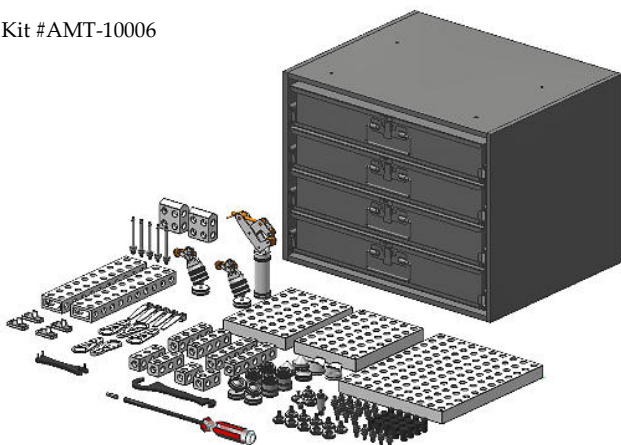
- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.



Part Number	Description	Qty.
AMT-11049	25x300x300mm Grid Plate M6	1
AMT-11505	Off-Grid block	1
AMT-15003	Top element, flat	2
AMT-15010	Sphere, 1/2 10x15mm	2
AMT-15015	Stack Jack®, 15mm	5
AMT-15020	Cone, 10x15mm	2
AMT-15037	Wall, 50% 10x15mm	3
AMT-15041	Wall 75% 10x15mm	1
AMT-15064	Riser 20x15mm M8	5
AMT-15065	Riser 25x15mm M8	5
AMT-15075	Riser 20x15mm M8/M6	10
ATM-16004	Finger clamp 60mm	5
AMT-16012	Clamp stud 60mm	3
AMT-16014	Clamp stud 130mm	2
AMT-16020	Stud post holder 15mm	1
AMT-17102	Shouldered dowel 12.5mm	1
AMT-17120	Nut, single M6	1
AMT-17141	Chase, single M6	1
AMT-17162	Screw M6x25mm	1
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.

Kit #AMT-10006



AMT-10006

Fixturing Kit, 106 pieces, System 25

Comprehensive kit includes Hollows, Connection Elements, 30 mm Locating Elements and clamping Elements. Includes a four drawer storage cabinet.

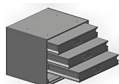
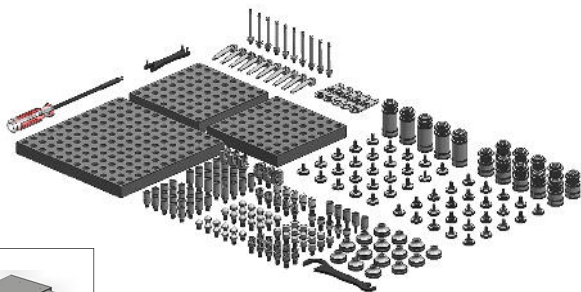
AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.



Part Number	Description	Qty.
AMT-11035	Grid Plate 25x250x300 M6	1
AMT-11018	Grid Plate 25x150x200 M6	2
AMT-19214	25x50x250mm Hollow	2
AMT-21106	25x25x50mm Solid Bar	2
AMT-21107	25x25x75mm Solid Bar	2
AMT-21108	25x25x100mm Solid Bar	2
AMT-21109	25x25x125mm Solid Bar	2
AMT-11531	Prism Blck 120° 25x50x56.25	2
AMT-17133	Lock for Retention Bolt 25mm	20
AMT-17113	Ret. Bolt, Double 12.5mm	10
AMT-17112	Ret. Bolt, Combi, 12.5 x 30 M6	3
AMT-17172	Disc Bolt w/ Shoulder 12.5	3
AMT-15200	StackJack© 38-50x30mm M24	4
AMT-17172	Disc Bolt w/ Shoulder 12.5	1
AMT-16046	KantTwist® Clamp 3/4", Ball	2
AMT-15235	Cone 90° 35x30 mm	2
AMT-15077	Base 30x20x15 mm M24	1
AMT-15065	Riser 25x15 mm M8	1
AMT-15020	Cone 10x15 mm	1
AMT-15258	Vee 90° 35x30 mm	1
AMT-15259	Vee 60° 35x30 mm	1
AMT-15340	Ball Joint 30 mm	2
AMT-16004	Finger Clamp 60 mm	5
AMT-16012	Clamp Stud 60 mm	5
AMT-16023	Stud Holder 30 mm	5
AMT-16045	KantTwist® Clamp 2", Top	1
AMT-10060	Wrench 15mm/30mm, Univ.	1
AMT-10053	Screwdriver, Univ.	1
AMT-10052	Spanner Tool, 25/40	1
AMT-17171	Centering Disc 24x12.5, M6	10
AMT-10040	Storage Case with Drawers	1
AMT-17112	Ret. Bolt, Combi 12.5x30, M6	5
AMT-17148	End Cap 25x50 mm	4

Kit #AMT-10010

**AMT-10010****Fixturing Kit #1, 222 pieces, System 25**

AMT Fixturing Kits feature:

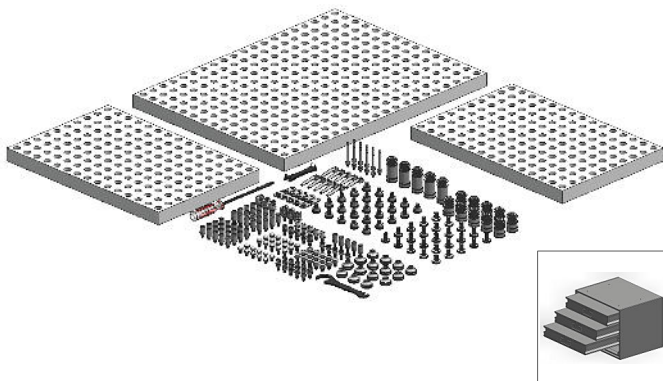
- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.



Part Number	Description	Qty.
AMT-11021	Grid Plate 25x200x200mm M6	2
AMT-11049	Grid plate 25x300x300mm M6	1
AMT-15003	Top element, flat 10x15mm	15
AMT-15010	Sphere, 1/2 10x15mm	15
AMT-15020	Cone 10x15mm	10
AMT-15026	Vee 45° 10x15mm	5
AMT-15037	Wall 50% 10x15mm	10
AMT-15041	Wall 75% 10x15mm	5
AMT-15047	Indicator holder .375"	3
AMT-15050	Indicator holder M8	3
AMT-15057	Magnet 10x15mm	5
AMT-15064	Riser 20x15mm M8	20
AMT-15065	Riser 25x15mm M8	20
AMT-15075	Riser 20x15mm M6	5
AMT-15077	Base M24 30x20x15mm	20
AMT-15200	Stack Jack® 38-50x30mm M24	10
AMT-15201	Stack Jack® 63-75x30mm M24	5
AMT-16004	Finger clamp 60mm	10
AMT-16012	Clamp stud 60mm	10
AMT-16020	Stud post holder 15mm	5
AMT-17171	Disc cntring 24mm x 30 M6	20
AMT-17173	Disc non-cntr 24mm x 30 M6	20
AMT-10040	Storage case with drawers	1

Note: All kits include needed tools.

Kit #AMT-10011



AMT-10011

Fixturing Kit #2, 222 pieces, System 40

Kit for larger parts includes System 40 grid plates and elements.

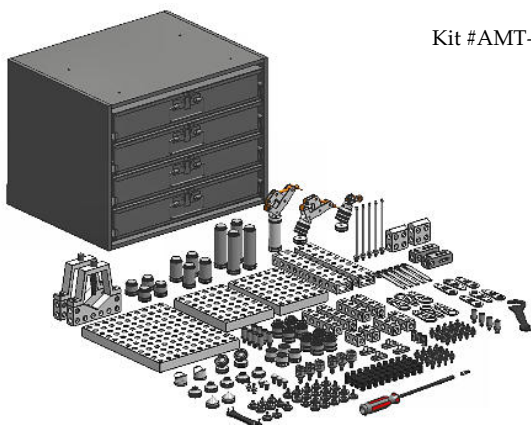
AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.



Part Number	Description	Qty.
AMT-11415	Grid Plate 40x400x600mm M10	2
AMT-11420	Grid plate 40x600x800mm M10	1
AMT-15003	Top element, flat 10x15mm	15
AMT-15010	Sphere, 1/2 10x15mm	15
AMT-15020	Cone 10x15mm	10
AMT-15026	Vee 45° 10x15mm	5
AMT-15037	Wall 50% 10x15mm	10
AMT-15041	Wall 75% 10x15mm	5
AMT-15047	Indicator holder .375"	3
AMT-15050	Indicator holder M8	3
AMT-15057	Magnet 10x15mm	5
AMT-15064	Riser 20x15mm M8	20
AMT-15065	Riser 25x15mm M8	20
AMT-15075	Riser 20x15mm M6	5
AMT-15077	Base M24 30x20x15mm	20
AMT-15200	Stack Jack® 38-50x30mm M24	10
AMT-15201	Stack Jack® 63-75x30mm M24	5
AMT-16004	Finger clamp 60mm	10
AMT-16012	Clamp stud 60mm	10
AMT-16020	Stud post holder 15mm	5
AMT-17271	Disc cntring 24mm x 30 M6	20
AMT-17273	Disc non-cntring 24mm x 30 M6	20
AMT-10040	Storage case with drawers	1

Note: All kits include needed tools.



Kit #AMT-10017

AMT-10017**Fixturing Kit, 229 pieces, System 25**

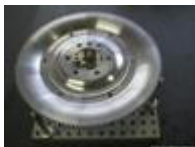
The perfect kit for CMM applications.

AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.
- ⊕ Components can be used across system sizes 25 and 40

AMT-11035	Grid Plate 25x250x300mm	1
AMT-11018	Grid Plate 25x150x200mm	2
AMT-19214	25x50x250mm Hollow	2
AMT-21106	25x25x50mm Solid Bar	2
AMT-21107	25x25x75mm, Solid Bar	2
AMT-21108	25x25x100mm, Solid Bar	2
AMT-21109	25x25x125mm, Solid Bar	2
AMT-11531	Prism Blck, 120° 25x50x56.25	2
AMT-17133	Lock for Ret. Bolt, 25mm	40
AMT-17113	Ret. Bolt, Dbl, 12.5mm	20
AMT-17112	Ret. Bolt, Combi, 12.5x30mm	6
AMT-17172	Disc Bolt w/ Shldr, 12.5 M24	6
AMT-15200	StackJack® 38-50x30 M24	4
AMT-16046	KantTwist® Clamp, 3/4", Ball	1
AMT-16004	Finger Clamp 60mm	5
AMT-16012	Clamp Stud 60mm	5
AMT-16048	KantTwist® Clamp, 2", Ball	1
AMT-17172	Disc Bolt w/ Shldr 12.5 M24	1
AMT-15258	Vee 90° 35x30mm	1
AMT-15259	Vee 60° 35x30mm	1
AMT-15340	Ball Joint 30mm	2
AMT-15235	Cone 90° 35x30mm	2
AMT-15077	Base 30x20x15mm M24	2
AMT-15065	Riser 25x15mm M8	5
AMT-15020	Cone 10x15mm	2

Parts list continued on next page

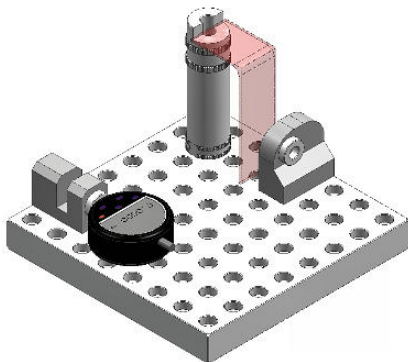


AMT-10017

Fixturing Kit, 229 pieces, continued

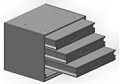
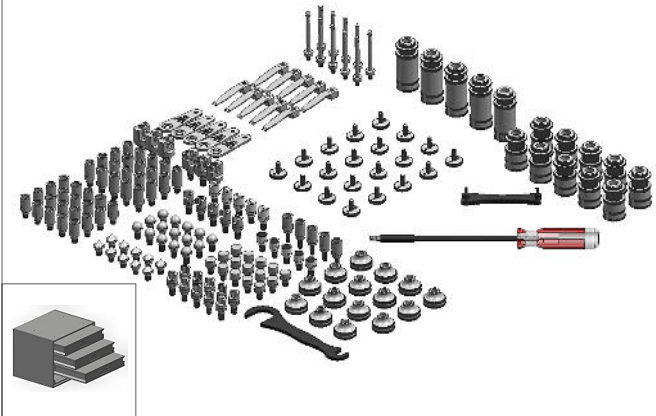


Part Number	Description	Qty.
AMT-15077	Base 30 x 20x15mm M24	3
AMT-15065	Riser 25x15mm M8	3
AMT-15010	SPC Locator 1/2"	3
AMT-16023	Stud Holder 30mm	6
AMT-11560	Vee Blck 120°, 25x50x150mm	2
AMT-11505	Off-Grid Block 25mm	2
AMT-17174	Off-Grid Disc Ret. Bolt M24	2
AMT-17120	Nut Single M6	3
AMT-17118	Off-Grid Ret. Bolt 12.5mm	2
AMT-15357	Rare Earth Magnet 30, M24	2
AMT-15340	Ball Joint 30mm	2
AMT-10040	Storage Case with Drawers	1
AMT-17112	Ret. Bolt Combi 12.5x30, M6	10
AMT-10060	Wrench 15mm/30mm, Univ.	1
AMT-10053	Screwdriver, Univ.	1
AMT-10052	Spanner Tool 25/40, Univ.	1
AMT-17171	Centering Disc 24x12.5, M6	20
AMT-16014	Clamp Stud 130mm	5
AMT-16005	Finger Clamp 105mm	5
AMT-17148	End Cap 25x50mm	4
AMT-15214	Riser 25x30mm	4
AMT-15216	Riser 50x30mm	4
AMT-15218	Riser 100x30mm	4
AMT-16020	Stud Holder 15mm	6
AMT-15047	Indicator Hldr .375x20x15	3
AMT-15050	Indicator Hldr 20x15mm M8	3
AMT-15320	Rotary Element 30mm	4
AMT-15064	Riser 20x15mm M8	4
AMT-10040	Storage cabinet with drawers	1





Kit #AMT-10013



AMT-10013

Fixturing Kit #3, 199 pieces, System 25 (shown)

This expansion and cross-over kit allows AMT components to mount on customer specified plates.

Thread sizes that are available from our stock: M6, M10, 1/4-20, 3/8-16. Custom thread sizes are also available.

AMT Fixturing Kits feature:

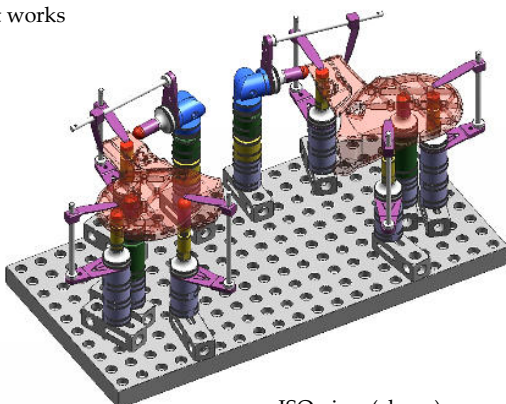
- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ AMT high precision components with hard coat anodized finish
- ⊕ Components can be used across system sizes 25 and 40

Part Number	Description	Qty.
AMT-14073	Disc, flat 24mm 1/4-20	20
AMT-14075	Riser 1/4-20xM8x15mm	5
AMT-15003	Top element, flat 10x15mm	15
AMT-15010	Sphere 1/2 10x15mm	15
AMT-15020	Cone 10x15mm	10
AMT-15026	Vee 45° 10x15mm	5
AMT-15037	Wall 50% 10x15mm	10
AMT-15041	Wall 75% 10x15mm	5
AMT-15047	Indicator holder .375"	3
AMT-15050	Indicator holder M8	3
AMT-15057	Magnet 10x15mm	5
AMT-15064	Riser 20x15mm M8	20
AMT-15065	Riser 25x15mm M8	20
AMT-15077	Base M24 30x20x15mm	20
AMT-15200	Stack Jack® 38-50x30mm M24	10
AMT-15201	Stack Jack® 63-75x30mm M24	5
AMT-16004	Finger clamp 60mm	10
AMT-16012	Clamp stud 60mm	5
AMT-14012	Clamp stud 1/4-20 thread	5
AMT-16020	Stud post holder 15mm	5
AMT-10040	Storage case with drawers	1

Note: All kits include needed tools.

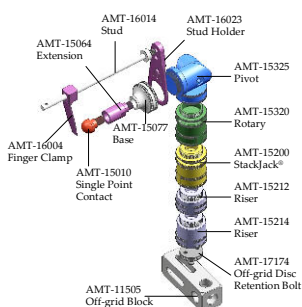
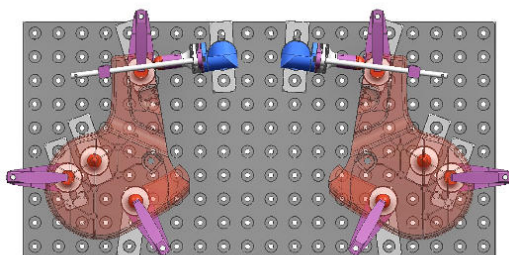
SOLUTIONS®

How it works

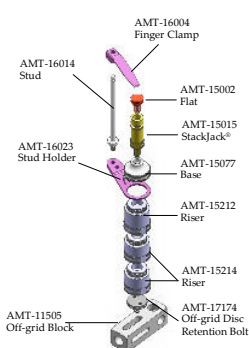


ISO view (above)

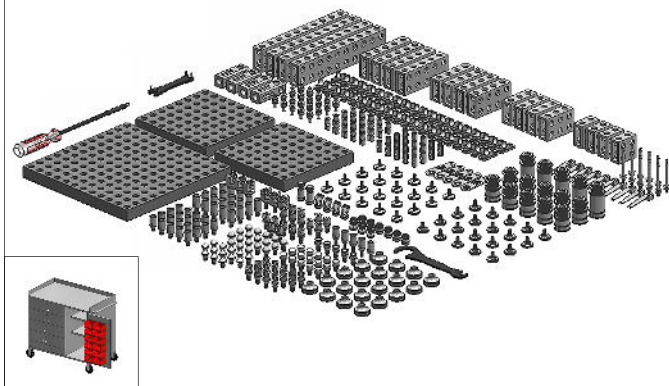
Top view (below)



Details from same tool
(above and right)



Kit #AMT-10015

**AMT-10015****Fixturing Kit #9, 379 pieces, System 25**

AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.
- ⊕ Components can be used across system sizes 25 and 40

Part Number	Description	Qty.
AMT-11021	Grid plate 25x200x200mm M6	2
AMT-11049	Grid plate 25x300x300mm M6	1
AMT-11505	Off-grid block	4
AMT-15003	Top element, flat 10x15mm	15
AMT-15010	Sphere 1/2 10x15mm	18
AMT-15020	Cone 10x15mm	13
AMT-15026	Vee 45° 10x15mm	7
AMT-15030	Vee 60° 10x15mm	2
AMT-15037	Wall 50% 10x15mm	14
AMT-15041	Wall 75% 10x15mm	7
AMT-15047	Indicator holder .375"	3
AMT-15050	Indicator holder M8	3
AMT-15057	Magnet 10x15mm	5
AMT-15064	Riser 20x15mm M8	20
AMT-15065	Riser 25x15mm M8	20
AMT-15075	Riser 20x15mm M6xM8	5
AMT-15077	Base M24 30x20x15mm	20
AMT-15105	Spring element 15mm	2
AMT-15120	Rotary element 15mm	6
AMT-15125	Pivot element 15mm	4
AMT-15130	Rotary/pivot element 15mm	2
AMT-15140	Ball joint 15mm	3
AMT-15200	Stack Jack® 38-50x30mm M24	10
AMT-15201	Stack Jack® 63-75x30mm M24	5

Parts list continued on next page

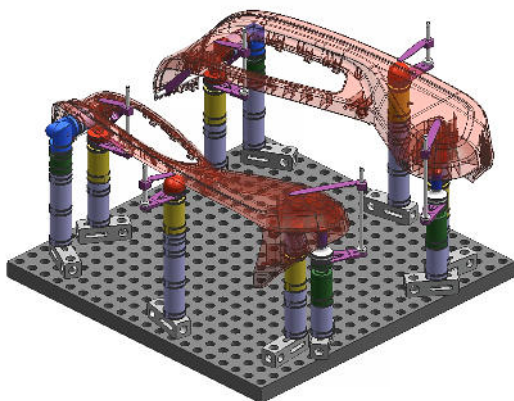
AMT-10015

Fixturing Kit #9, 379 pieces continued

Part Number	Description	Qty.
AMT-16004	Finger clamp 60mm	10
AMT-16012	Clamp stud 60mm	10
AMT-16020	Stud post holder 15mm	5
AMT-17112	Combi Reten. bolt 12.5x30 M6	20
AMT-17120	Nut, single M6	20
AMT-17133	Lock for retention bolt 25mm	20
AMT-17147	End cap 25x25mm	40
AMT-17171	Disc cntrng 24mmx12.5x30 M6	20
AMT-17173	Disc non-cntr 24mmx30 M6	20
AMT-19206	25x50x50mm Hollow	4
AMT-19207	25x50x75mm Hollow	4
AMT-19208	25x50x100mm Hollow	4
AMT-19209	25x50x125mm Hollow	4
AMT-19214	25x50x250mm Hollow	4
AMT-10048	Storage cabinet with drawers	1

Note: All kits include needed tools.

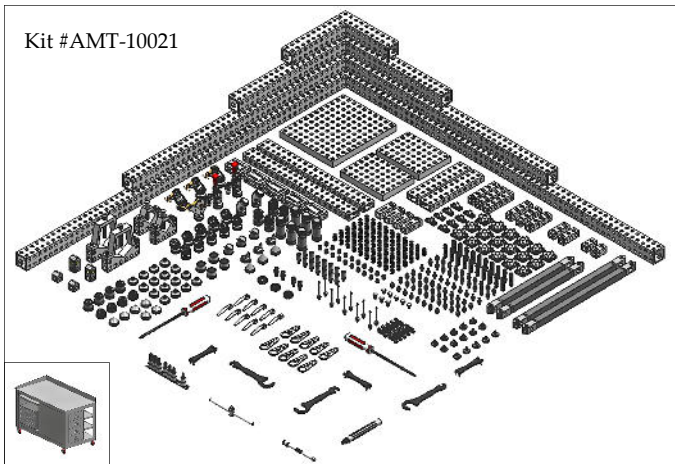
Be creative...



Fixturing Kits

think modular.

Kit #AMT-10021

**AMT-10021****Fixturing Kit, 599 pieces, System 25**

AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.
- ⊕ Components can be used across system sizes 25 and 40

AMT-11035	Grid Plate 25x250x300 M6	1
AMT-11018	Grid Plate 25x150x200 M6	2
AMT-19214	25x50x250mm Hollow	2
AMT-17148	End Cap 25 x 50mm	8
AMT-19224	25x50x500mm Hollow	2
AMT-21106	25x25x50mm Solid	2
AMT-21107	25x25x75mm Solid	2
AMT-21108	25x25x100mm Solid	3
AMT-21109	25x25x125mm Solid	3
AMT-09314	50x50x250mm Hollow	2
AMT-09324	50x50x500mm Hollow	2
AMT-09344	50x50x1000mm Hollow	2
AMT-09364	50x50x1500mm Hollow	2
AMT-17149	End Cap 50x50mm	18
AMT-11505	Off-Grid Block 25mm	4
AMT-11506	Off-Grid Block Bi-Direction.	5
AMT-15325	Pivot Element 30mm	2
AMT-27508	Strut 25x250x325mm	2
AMT-27510	Strut 25x325x425mm	4
AMT-11550	Vee Blck 90° 25x50x100mm	2
AMT-11560	Vee Blck 120° 25x50x150mm	2
AMT-11511	Prism Blck 120° 25x25x31.25	2
AMT-11516	Prism Blck 120° 25x25x56.26	2
AMT-17133	Lock for Ret. Bolt 25mm	60
AMT-17112	Ret. Bolt Combi 12.5x30 M6	20

Parts list continued on next page



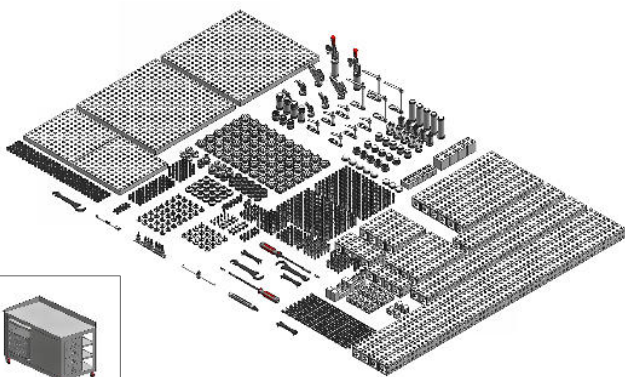
AMT-10021

Fixturing Kit, 599 pieces continued



AMT-17118	Off-Grid Ret. Bolt 12.5mm	10
AMT-17113	Ret. Bolt Double 12.5mm	30
AMT-17115	Ret. Bolt Combi 12.5mm	8
AMT-10060	Wrench, 15mm/30mm Univ.	2
AMT-10053	Screwdriver, Univ.	2
AMT-10052	Spanner Tool, 25/40 Univ.	2
AMT-17102	Dowel w/ Shoulder 12.5mm	50
AMT-17121	Nut Double M6	70
AMT-17142	Chase Double M6	50
AMT-17162	Screw M6 x 30mm, SHCS	70
AMT-15200	StackJack® 38-50x30 M24	4
AMT-15212	Riser 15x30mm	4
AMT-15214	Riser 25x30mm	4
AMT-17172	Disc Bolt w/ Shldr 12.5 M24	20
AMT-17174	Off-Gird Ret. Bolt Disc M24	5
AMT-15235	Cone 90° 35x30mm	6
AMT-15077	Base 30x20x15mm M24	16
AMT-15065	Riser 25x15mm M8	14
AMT-15020	Cone 10x15mm	5
AMT-15010	SPC Locator 1/2"	3
AMT-15340	Ball Joint 30mm	10
AMT-15259	Vee 60° 35x30mm	3
AMT-15264	Vee 120° 30mm Thin	3
AMT-15357	Rare Earth Magnet 30 M24	4
AMT-15305	Spring Element 30mm	6
AMT-15236	Cone 120° 25x30mm	3
AMT-15037	Wall 1/2 10x15mm	2
AMT-15041	Wall 3/4 10x15mm	2
AMT-16047	KantTwist® Clamp 1", Ball	3
AMT-14009	Spacer 132x10mm M24	3
AMT-16004	Finger Clamp 60mm	10
AMT-16012	Clamp Stud 60mm	10
AMT-16023	Stud Holder 30mm	5
AMT-16045	KantTwist® Clamp 2", Top	1
AMT-16040	Toggle Disc w/ Clamp Top	2
AMT-10049	Work Station with Drawers	1

Kit #AMT-10016

**AMT-10016****Fixturing Kit, 1,100 pieces, System 25**

An ideal kit for large plastic or sheet metal parts. Includes grid plates and Hollows.

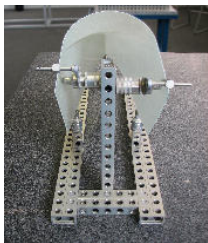
The "ultimate" kit.

AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.
- ⊕ Components can be used across system sizes 25 and 40

Part Number	Description	Qty.
AMT-01049	Grid Plate 25x300x300mm M6	2
AMT-01079	Grid Plate 25x500x500mm M6	2
AMT-09307	50x50x75mm Hollow	4
AMT-09308	50x50x100mm Hollow	4
AMT-09312	50x50x200mm Hollow	4
AMT-09316	50x50x300mm Hollow	4
AMT-09324	50x50x500mm Hollow	6
AMT-09328	50x50x600mm Hollow	2
AMT-09344	50x50x1000mm Hollow	2
AMT-09364	50x50x1500mm Hollow	4
AMT-17149	End cap 50x50mm	60
AMT-17102	Shoulder dowel 12.5mm	150
AMT-17103	Plain dowel 12.5mm	10
AMT-17162	Screw M6x30 SHC	150
AMT-17121	Nut, double M6	150
AMT-17142	Chase, double M6	150
AMT-17120	Nut, single M6	25
AMT-17141	Chase, single M6	25
AMT-17112	Retention bolt, combi M6	20
AMT-17113	Retention bolt, double M6	10
AMT-17117	Retention bolt, short M6	20
AMT-17132	Retention bolt lock 50mm	20
AMT-17133	Retention bolt lock 25mm	40
AMT-17171	Disc, centering M6	40
AMT-17172	Ret. bolt disc 12.5mm M24	20
AMT-17173	Disc, non-centering M6	20
AMT-10053	Screwdriver, universal	2

Parts list continued on next page



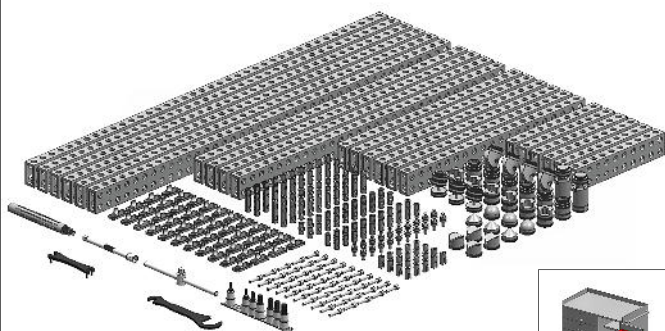
AMT-10016

Fixturing Kit, 1,100 pieces continued



Part Number	Description	Qty.
AMT-10052	Spanner tool, universal	2
AMT-15002	Flat cap 5x15mm M8	10
AMT-15010	Sphere 10x15mm M8	10
AMT-15020	Cone 10x15mm M8	10
AMT-15026	Vee 90° 10x15mm M8	2
AMT-15037	Wall 50% 10x15mm M8	6
AMT-15041	Wall 75% 10x15mm M8	2
AMT-15047	Ind. holder .375" 10x15mm M8	2
AMT-15057	Magnet 10x15mm M8	2
AMT-15064	Riser 20mm M8	20
AMT-15015	StackJack© 40-52mm M8	2
AMT-15077	Base 20x30mm M24	20
AMT-15075	Extension 20mm M6/M8	20
AMT-15248	Sphere 25x30mm M24	5
AMT-15206	Flat cap 10x30mm M24	3
AMT-15125	Pivot, 15mm M6	3
AMT-15270	Wall 50% 35x20mm M24	6
AMT-15271	Wall 75% 35x30mm M24	2
AMT-15200	StackJack© 38-50mm M24	5
AMT-15201	StackJack© 63-75mm M24	5
AMT-15212	Riser 15mm M24	5
AMT-15214	Riser 25mm M24	5
AMT-15218	Riser 100mm M24	5
AMT-15340	Ball joint 45x30mm M24	10
AMT-15305	Spring element 60-75mm M24	4
AMT-15325	Pivot 50x30mm M24	5
AMT-15320	Rotary element 35x30mm M24	3
AMT-11505	Off-grid block 25x25x75mm	10
AMT-11510	Prism block 90°	2
AMT-11511	Prism block 120°	2
AMT-14106A	Net block 95x45mm	4
AMT-14102	Net block adapter	4
AMT-14702	Nub block 25x50x25mm	6
AMT-14740	Nub block 50x50x50mm	4
AMT-16030	Clamp assembly	6
AMT-16004	Finger clamp 60mm	6
AMT-16005	Finger clamp 105mm	4
AMT-16012	Clamp stud 60mm	6
AMT-16014	Clamp stud 130mm	4
AMT-16040	Toggle clamp	2
AMT-16043	Clamp 3/4" KantTwist©	2
AMT-16044	Clamp 1" KantTwist©	2
AMT-16045	Clamp 2" KantTwist©	2
AMT-16023	Clamp stud holder 30mm	6
AMT-10049	Workstation with drawers	1

Kit #AMT-10019

**AMT-10019****Expansion Kit, 292 pieces, System 25**

A great kit for building frames, cubes and more. Kit Includes locating and connection elements.

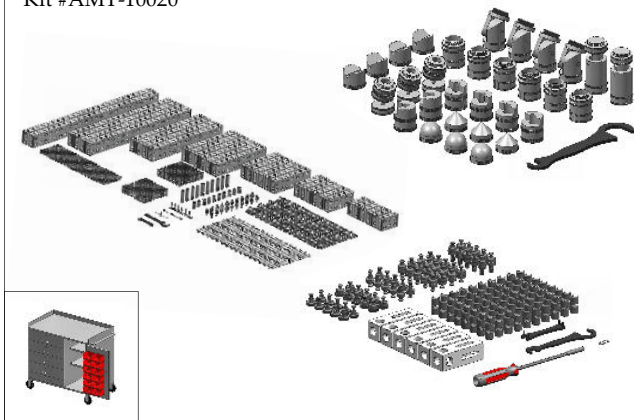
AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.
- ⊕ Components can be used across system sizes 25 and 40

Part Number	Description	Qty.
AMT-15235	Cone 45° 25x30mm	3
AMT-15248	Sphere 25x30mm	3
AMT-15258	Vee 45° 35x30mm	2
AMT-15259	Vee 60° 35x30mm	2
AMT-15270	Wall 50% 35x30mm	4
AMT-15271	Wall 75% 35x30mm	2
AMT-15305	Spring element 30mm	2
AMT-15320	Rotary element 30mm	6
AMT-15325	Pivot element 30mm	4
AMT-15340	Ball joint 30mm	3
AMT-17112	Combi reten. bolt 12.5x30mm	20
AMT-17120	Nut, single M6	20
AMT-17121	Nut, double M6	20
AMT-17133	Lock for retention bolt 25mm	20
AMT-17141	Chase, single M6	20
AMT-17142	Chase, double M6	20
AMT-17148	End cap 25x50mm	44
AMT-17162	Screw M6x25 SST	50
AMT-17171	Disc cntrng 24mmx30 M6	25
AMT-19214	25x50x250mm Hollow	6
AMT-19224	25x50x500mm Hollow	6
AMT-19234	25x50x750mm Hollow	4
AMT-19244	25x50x1000mm Hollow	6
AMT-10048	Workstation with drawers	1

Note: All kits include needed tools

Kit #AMT-10020



AMT-10020

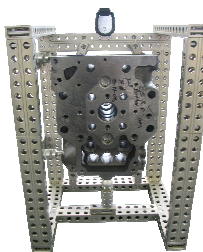
Accurate, strong, reusable AMT Hollows allow heavy parts like this 85 lb casting to be fixtured with ease and confidence.

AMT Fixturing Kits feature:

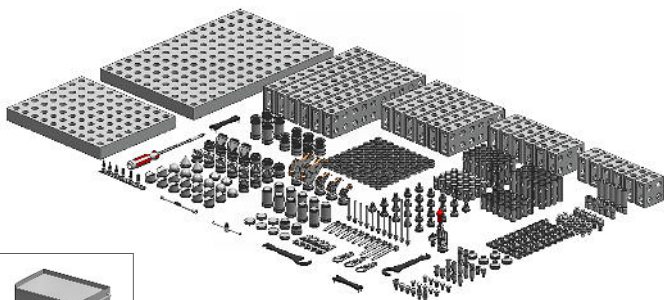
- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.
- ⊕ Components can be used across system sizes 25 and 40
- ⊕ Includes needed tools

Expansion Kit, 880 pieces, System 40

Part Number	Description	Qty.
AMT-09507	Hollow 40x80x120mm CG	6
AMT-09509	Hollow 40x80x200mm CG	6
AMT-09511	Hollow 40x80x220mm CG	4
AMT-09514	Hollow 40x80x400mm CG	6
AMT-09518	Hollow 40x80x560mm CG	4
AMT-09524	Hollow 40x80x800mm CG	4
AMT-09529	Hollow 40x80x1000mm CG	2
AMT-11605	Off-Grid Block, 40mm	5
AMT-15235	Cone 90° 35x30mm	3
AMT-15248	Sphere 25x30mm	3
AMT-15258	Vee 90° 35x30mm	2
AMT-15259	Vee 60° 35x30mm	2
AMT-15270	Wall 50%, 35x30mm	4
AMT-15271	Wall 75%, 35x30mm	2
AMT-15305	Spring Element 30mm	2
AMT-15320	Rotary Element 30mm	6
AMT-15325	Pivot Element 30mm	4
AMT-15330	Rotary/Pivot Element 30mm	2
AMT-15340	Ball Joint 30mm	3
AMT-17212	Combi Ret. Bolt 20mm M10	10
AMT-17213	Double Ret. Bolt 20mm	20
AMT-17218	Off-Grid Ret. Bolt 20x10.7	6
AMT-17233	Lock for Retention Bolt 40mm	40
AMT-17271	Bolt Disc w/ Shldr 30mm M10	10
AMT-17202	Shouldered Dowel 20mm	132
AMT-17212	Combi Ret. Bolt 20x30mm M10	20
AMT-17242	Chase, Double M10	64
AMT-17221	Nut, Double M10	64
AMT-17235	Lock for Retention Bolt 80mm	10
AMT-17241	Chase, Single M10	20
AMT-17220	Nut, Single M10	20
AMT-17248	End Cap 40x80	50
AMT-17264	Screw 50mm M10 SHCS	50
AMT-10048	Workstation with drawers	1



Kit #AMT-10024

**AMT-10024****Fixturing Kit #12, 459 pieces, System 40**

A comprehensive kit for medium-sized or odd shaped parts. Includes elements for adjusting to irregular surfaces.

AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.
- ⊕ Components can be used across system sizes 25 and 40

Part Number	Description	Qty.
AMT-11406	Grid plate 40x320x400mm M10	1
AMT-11415	Grid plate 40x400x600mm M10	1
AMT-15003	Top element, flat 10x15mm	3
AMT-15010	Sphere 1/2 10x15mm	5
AMT-15015	Stack Jack® 15mm	2
AMT-15020	Cone 10x15mm	5
AMT-15037	Wall 50% 10x15mm	2
AMT-15041	Wall 75% 10x15mm	1
AMT-15057	Magnet 10x15mm	3
AMT-15064	Riser 20x15mm M8	5
AMT-15065	Riser 25x15mm M8	5
AMT-15077	Base M24 30x20x15mm	5
AMT-15200	Stack Jack® 38-50x30mm M24	6
AMT-15201	Stack Jack® 63-75x30mm M24	4
AMT-15206	Cap, flat 10x30mm	6
AMT-15213	Riser 20x30mm	4
AMT-15216	Riser 50x30mm	10
AMT-15235	Cone 45° 25x30mm	2
AMT-15236	Cone 60° 35x30mm	2
AMT-15248	Sphere 25x30mm	6
AMT-15258	Vee 45° 35x30mm	6
AMT-15259	Vee 60° 35x30mm	6
AMT-15270	Wall 50% 35x30mm	6
AMT-15271	Wall 75% 35x30mm	3
AMT-15320	Rotary element 30mm	3
AMT-15325	Pivot element 30mm	3

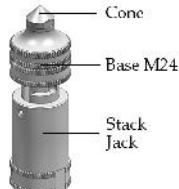
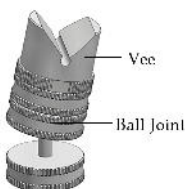
Parts list continued on next page

AMT-10024

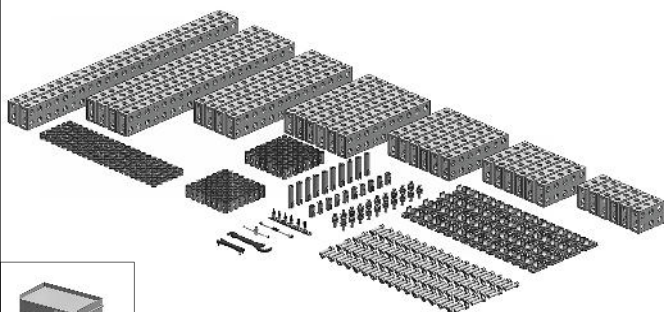
Fixturing Kit , 459 pieces continued

Part Number	Description	Qty.
AMT-15340	Ball joint 30mm	4
AMT-16004	Finger clamp 60mm	3
AMT-16005	Finger clamp 105mm	3
AMT-16012	Clamp stud 60mm	3
AMT-16014	Clamp stud 130mm	3
AMT-16020	Stud post holder 15mm	5
AMT-16023	Stud post holder 30mm	3
AMT-16030	Clamp asm, clamp/stud/holder	5
AMT-16040	Toggle disc w/ feet and clamp	3
AMT-16043	KantTwist® clamp 3/4", w/top	1
AMT-16044	KantTwist® clamp 1", w/top	2
AMT-16045	KantTwist® clamp 2", w/top	2
AMT-17202	Locator shoulder 20mm	100
AMT-17212	Combi ret bolt 20xM10x30mm	5
AMT-17213	Double retention bolt 20mm	10
AMT-17220	Nut, single M10	24
AMT-17221	Nut, double M10	24
AMT-17233	Lock for retention bolt, 40mm	5
AMT-17235	Lock for retention bolt, 80mm	10
AMT-17241	Chase, single M10	24
AMT-17242	Chase, double M10	24
AMT-17248	End Cap 40x80mm	30
AMT-17271	Disc cent M24xM10x20x30mm	25
AMT-09506	40x80x80mm Hollow	6
AMT-09507	40x80x120mm Hollow	6
AMT-09510	40x80x240mm Hollow	6
AMT-09514	40x80x400mm Hollow	6
AMT-10048	Workstation with drawers	1

Note: All kits include needed tools.



Kit #AMT-10026

**AMT-10026****Fixturing Kit #16, 526 pieces, System 40**

Combine this kit with your current kit to expand your fixturing capabilities. Select nets, locator clamps or machinable blocks to build great re-usable fixtures and gages.

AMT Fixturing Kits feature:

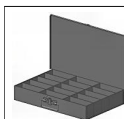
- ⊕ Material 7075-T6 aluminum components
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.

Part Number	Description	Qty.
AMT-17202	Shouldered dowel 20mm	132
AMT-17212	Combi ret. Bolt 20xM10x30mm	20
AMT-17220	Nut, single M10	50
AMT-17233	Lock for retention bolt, 40mm	10
AMT-17235	Lock for retention bolt, 80mm	10
AMT-17241	Chase, single M10	50
AMT-17248	End cap 40x80mm	50
AMT-17264	Screw M10x50mm SST	132
AMT-17242	Chase, Double M10	20
AMT-17221	Nut, Double M10	20
AMT-09507	40x80x120mm Hollow	6
AMT-09509	40x80x200mm Hollow	6
AMT-09511	40x80x280mm Hollow	4
AMT-09514	40x80x400mm Hollow	6
AMT-09518	40x80x560mm Hollow	4
AMT-09524	40x80x800mm Hollow	4
AMT-09529	40x80x1000mm Hollow	2
AMT-10048	Workstation	1

Note: All kits include needed tools.

Think modular:
Save money...
Save time...
Make Deadlines.

Kit #AMT-10029



AMT-10029

Locator Element Kit, 33 pieces, System 25/40

Expand your capabilities with these high quality, unique off-grid devices.
AMT — awesome.

AMT Fixturing Kits feature:

- ⊕ Material 7075-T6 aluminum components
- ⊕ AMT high precision components with hard coat anodized finish or black oxide where required
- ⊕ See Material Properties on page 4.
- ⊕ Components can be used across system sizes 25 and 40

Part Number	Description	Qty.
AMT-15010	Sphere 1/2 10x15mm	3
AMT-15020	Cone 10x15mm	3
AMT-15026	Vee 45° 10x15mm	2
AMT-15030	Vee 60° 10x15mm	2
AMT-15037	Wall 50% 10x15mm	4
AMT-15041	Wall 75% 10x15mm	2
AMT-15105	Spring element 15mm	2
AMT-15120	Rotary element 15mm	6
AMT-15125	Pivot element 15mm	4
AMT-15130	Rotary/pivot element 15mm	2
AMT-15140	Ball joint 15mm	3
AMT-10043	Storage drawer, adjustable	1



Pivot and rotary elements



Rotary, pivot, vee and clamp elements



Spring element with cone

Kit #AMT-10030



AMT-10030

Locator Element Kit 33 pieces, System 25/40

This Locator Element kit provides many options for off-grid locations on medium-sized parts. Rotate, pivot, spring or ball joint elements combine to achieve complex, multi-axis locators.

Free — you get 12 threaded attaching discs in the thread of your choice.

AMT high precision components with hard coat anodize finish or black oxide where required.

See Material Properties on page 4.

Part Number	Description	Qty.
AMT-15235	Cone 45° 25x30mm	3
AMT-15248	Sphere 25x30mm	3
AMT-15258	Vee 45° 35x30mm	2
AMT-15259	Vee 60° 35x30mm	2
AMT-15270	Wall 50% 35x30mm	4
AMT-15271	Wall 75% 35x30mm	2
AMT-15305	Spring element 30mm	2
AMT-15320	Rotary element 30mm	6
AMT-15325	Pivot element 30mm	4
AMT-15330	Rotary/pivot element 30mm	2
AMT-15340	Ball joint 30mm	3
AMT-10043	Storage drawer, adjustable	1



Pivot element

Rotary element

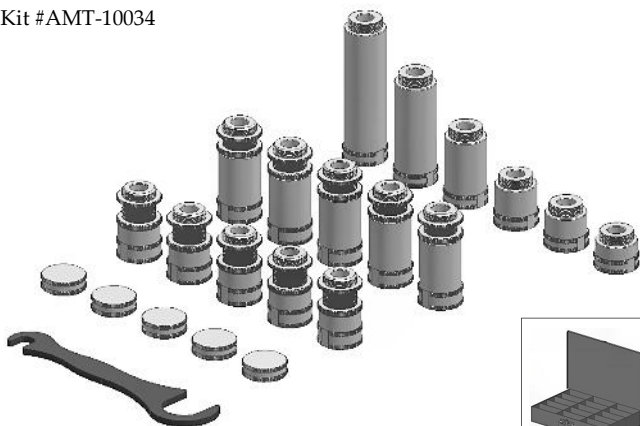


Spring element



Thin Vee
Rotary element
Pivot element

Kit #AMT-10034



AMT-10034

Stack Jack® and Riser Kit, 21 pcs, System 25/40

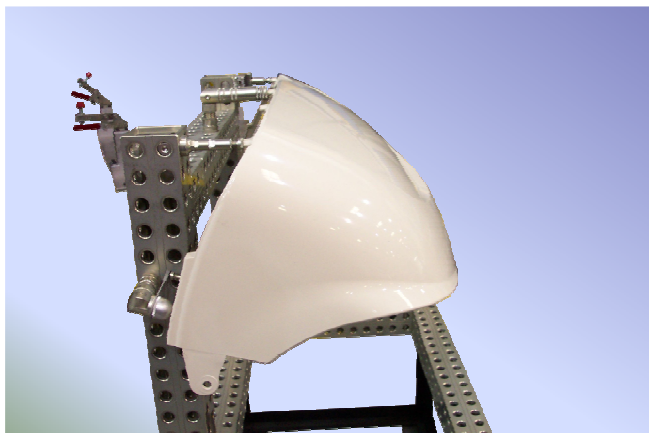
AMT accurate height positioners with fine threads and stackable jacks (StackJacks®) allow you to put top locators where you need them.

AMT high precision components with hard coat anodized finish or black oxide finish where required.

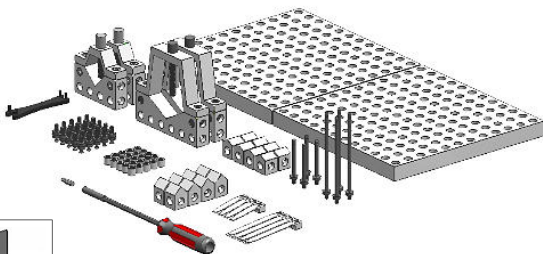
See Material Properties on page 4.

Part Number	Description	Qty.
AMT-15200	Stack Jack® 38-50x30mm M24	5
AMT-15201	Stack Jack® 63-75x30mm M24	5
AMT-15206	Cap, flat 10x30mm	5
AMT-15212	Riser 15x30mm	1
AMT-15213	Riser 20x30mm	1
AMT-15214	Riser 25x30mm	1
AMT-15215	Riser 30x30mm	1
AMT-15216	Riser 50x30mm	1
AMT-15217	Riser 75x30mm	1
AMT-10043	Storage drawer, adjustable	1

Free — You get 12 attaching discs in the thread of your choice.

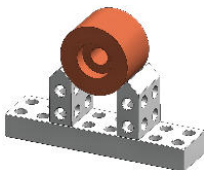


Kit #AMT-10101 & 10102

**AMT-10101****Vee Block Kit, 93 pcs., System 25**

Round part holding aplenty with this excellent AMT vee block and prism block kit.

- ⊕ Material 7075-T6 aluminum components.



Part Number	Description	Qty.
AMT-11550	Vee block 90° 25x50x100mm	2
AMT-11560	Vee block 120° 25x50x150mm	2
AMT-11510	Prism blk 90° 25x25x37.5mm	8
AMT-11511	Prism blk 120° 5x25x31.25mm	8
AMT-11049	Grid plate 300x300mm	2
AMT-17133	Lock for retention bolt 25mm	25
AMT-17112	Retention bolt, combi 12.5mm	25
AMT-16012	Clamp stud 60mm	4
AMT-16014	Clamp stud 130mm	4
AMT-16004	Finger clamp 60mm	4
AMT-16005	Finger clamp 105mm	4
AMT-10040	Storage drawer, adjustable	1

Note: All kits include needed tools.

AMT-10102**Vee Block Kit, 93 pcs. System 40**

AMT Fixturing Kits feature:

- ⊕ AMT high precision components with hard coat anodized finish or black oxide where required
- ⊕ See Material Properties on page 4.
- ⊕ 0.002mm (0.0008") accuracy of flat, square, parallel, hole size and hole location.

Part Number	Description	Qty.
AMT-11650	Vee block 90° 40x80x160mm	2
AMT-11660	Vee block 120° 40x80x240mm	2
AMT-11610	Prism block 90° 40x40x60mm	4
AMT-11611	Prism block 120° 40x40x60mm	4
AMT-11405	Grid plate 320x320mm	2
AMT-17233	Lock for retention bolt 40mm	12
AMT-17212	Retention bolt, combi M10	12
AMT-16018	Clamp stud 100mm M10	4
AMT-16019	Clamp stud 160mm M10	4
AMT-16004	Finger clamp 60mm	4
AMT-16005	Finger clamp 105mm	4
AMT-10040	Storage drawer, adjustable	1

Note: All kits include needed tools.

Kit #AMT-10115



AMT-10115

Clamp Kit, 31 pieces, System 25 or 40

Need a clamp? Buy this kit and clamp practically anything you can get under them. Note our toggle comes with three different press feet.

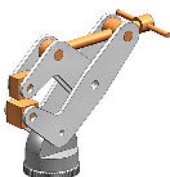
See Material Properties on page 4.

Free — You get 12 attaching discs in the thread of your choice.

Part Number	Description	Qty.
AMT-16004	Finger clamp 60mm	5
AMT-16005	Finger clamp 105mm	5
AMT-16014	Clamp stud 130mm	5
AMT-16015	Clamp stud 55x16mm	5
AMT-16040	Toggle disc w/feet and clamp	5
AMT-16043	KantTwist® clamp 3/4", w/top	1
AMT-16044	KantTwist® clamp 1", w/top	3
AMT-16045	KantTwist® clamp 2", w/top	2
AMT-10043	Storage drawer, adjustable	1



Be creative...think modular.



Fixturing Kits

Kit #AMT-10116

**AMT-10116****Locator & Clamping Kit, 109 pcs, System 25**

This expansion kit is ideal for flat and prismatic parts. Contains magnet and spring clamps, cones, flats, spheres, space saver elements, edge stops and vees! Great kit! Size 25 M6, or specify your thread size.

Contains locating and clamping elements for System 25 M6 Hollows, solid bars and grid plates.

AMT high precision components with hard coat anodized finish See Material Properties on page 4.

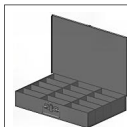
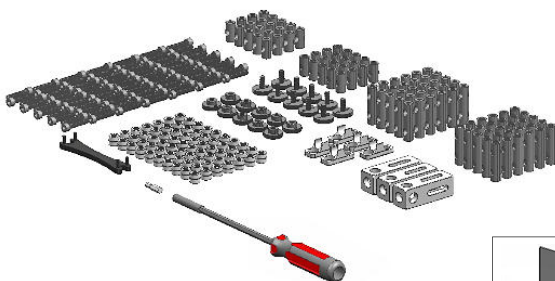
This kit is also available for:

- ⊕ System 40 / M10 (P/N AMT-10117)
- ⊕ 1/4-20 Plates (P/N AMT-10118)
- ⊕ 3/8-16 Plates (P/N AMT-10119)

Part Number	Description	Qty.
AMT-15200	StackJack® 38-50mm x 30mm	6
AMT-15077	Base M24	6
AMT-15076	Base 20x15mm M8	10
AMT-15065	Riser 25x15mm M8	10
AMT-15010	Ball locator 10x15mm M8	5
AMT-15248	Ball locator 25x30mm M24	5
AMT-15003	Flat locator 10x15mm M8	5
AMT-15206	Flat locator 10x30mm M24	5
AMT-15020	Cone locator 10x15mm M8	5
AMT-15235	Cone locator 35x30mm M24	5
AMT-15026	Vee locator 90° 10x15mm M8	2
AMT-15258	Vee locator 90° 35x30mm M8	2
AMT-15037	Edge locator 50% 10x15mm M8	3
AMT-15270	Edge locator 50% 35x30mm M24	3
AMT-15047	Indicator holder 3/8, 20x15mm	2
AMT-15057	Magnetic locator 10x15mm M8	5
AMT-15357	Magnetic locator 25x30mm M24	5
AMT-16012	Clamp stud 60mm	5
AMT-16004	Finger clamp 60mm	5
AMT-17173	Disc, non-centering M24xM6	15
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.

Kit #AMT-10121



AMT-10121

Connection Element Kit, Screw Type, 272 pieces, System 25

Use this kit to connect System 25 Hollows or Solid Bars using screw type connection elements. Off-grid blocks and connectors are also included.

Tweak up your kit and expand your off-grid options using this Size 25 connector element kit.

Hard coat anodize and black oxide where required. See Material Properties on page 4.

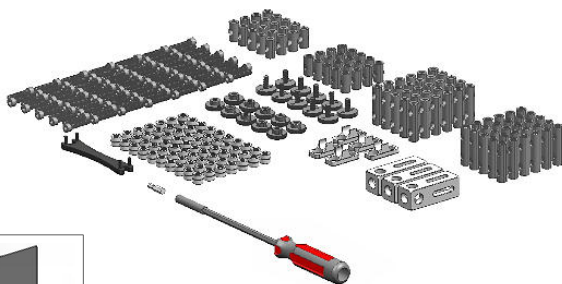
Part Number	Description	Qty.
AMT-17141	Chase, single 12x25mm M6	20
AMT-17120	Nut, single 12x25mm M6	20
AMT-17142	Chase, double 12x50mm M6	30
AMT-17121	Nut, double 12x50mm M6	30
AMT-17102	Dowel, shouldered, 12.5mm	70
AMT-17162	Screw 30mm M6 SHC	70
AMT-17173	Disc, non-centering, M24xM6	10
AMT-17171	Disc, centering M24xM6	10
AMT-11505	Off-grid block 25x25x75mm	3
AMT-17148	End cap 25x50mm	5
AMT-10060	Wrench	2
AMT-10053	Screwdriver	1
AMT-10052	Spanner tool for bolts and discs	1
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.

AMT Quality Components



Kit #AMT-10122

**AMT-10122****Connection Element Kit, Screw Type,
272 pieces, System 40**

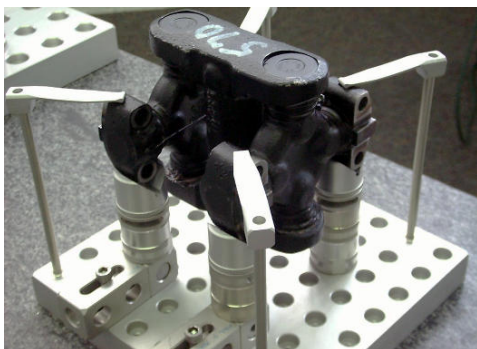
Use this kit to connect System 40 Hollows and Solid Bars using screw type connection elements. Off-grid blocks and all needed connectors are also included.

Tweak up your kit and expand your off-grid options using this Size 40 connector element kit.

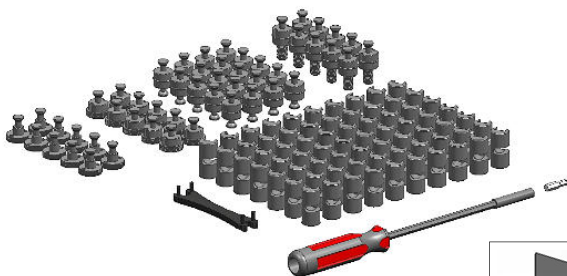
Hard coat anodize and black oxide where required
See Material Properties on page 4.

Part Number	Description	Qty.
AMT-17241	Chase, single 19x40mm M10	20
AMT-17220	Nut, single 19x40mm M10	20
AMT-17242	Chase, double 19x80mm M10	30
AMT-17221	Nut, double 19x80mm M10	30
AMT-17202	Dowel, shouldered, 20mm	70
AMT-17262	Screw 30mm M10 SHC	70
AMT-17273	Disc, non-centering, M24xM10	10
AMT-17271	Disc, centering M24xM10	10
AMT-11605	Off-grid block 40x40x120mm	3
AMT-17248	End cap 40x80mm	5
AMT-10060	Wrench	2
AMT-10053	Screwdriver	1
AMT-10052	Spanner tool for bolts and discs	1
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.



Kit #AMT-10125 & 10127



AMT-10125

Retention Type Connection Element Kit, 120 pieces, System 25

AMT Fixturing Kits 10125 and 10127 contain elements for connecting Plates, Hollows and Solid Bars. Also includes connectors for locating elements.

Add fastening capacity with this retention lock kit — 25 or 40, great price.

Black oxide finish on retention connectors. See Material Properties on page 4.

Part Number	Description	Qty.
AMT-17112	Retention bolt, combi M6	10
AMT-17113	Retention bolt, double 12.5mm	20
AMT-17133	Lock for retention bolt 25mm	70
AMT-17172	Disc retention bolt M24	10
AMT-17174	Disc retention bolt, off-grid M24	10
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.



Combi Connection



Quick Connection

AMT-10127

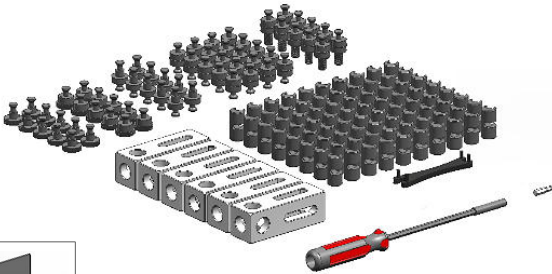
Retention Type Connection Element Kit, 120 pieces, System 40

- ⊕ Hard coat anodize and black oxide where required
- ⊕ See Material Properties on page 4.

Part Number	Description	Qty.
AMT-17212	Retention bolt, combi M10	10
AMT-17213	Retention bolt, double 20mm	20
AMT-17233	Lock for retention bolt 40mm	70
AMT-17272	Disc retention bolt M24	10
AMT-17274	Disc retention bolt, off-grid M24	10
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.

Kit #AMT-10126 & 10128



AMT-10126

Retention Type Connection Element Kit, Off-Grid, 140 pieces, System 25

AMT Fixturing Kits 10126 and 10128 contain elements for connecting Plates, Hollows and Solid Bars. Also includes off-grid blocks and connectors for locating elements.

These off-grid kits combined with AMT locating elements give you fast locating and locking opportunities.

Part Number	Description	Qty.
AMT-17112	Retention bolt, combi M6	10
AMT-17113	Retention bolt, double 12.5mm	20
AMT-17118	Retention bolt, off-grid 12.5mm	5
AMT-17133	Lock for retention bolt 25mm	80
AMT-17172	Disc retention bolt M24	10
AMT-17174	Disc retention bolt, off-grid M24	10
AMT-11505	Off-grid block 25x25x75mm	5
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.

AMT-10128

Retention Type Connection Element Kit, Off-Grid, 140 pieces, System 40

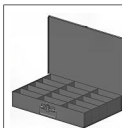
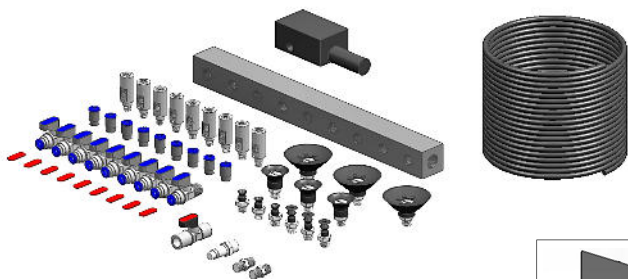
- ⊕ AMT high precision components with hard coat anodized finish or black oxide where required
- ⊕ See Material Properties on page 4.

Part Number	Description	Qty.
AMT-17212	Retention bolt, combi M10	10
AMT-17213	Retention bolt, double 20mm	20
AMT-17218	Retention bolt, off-grid 20mm	5
AMT-17233	Lock for retention bolt 40mm	80
AMT-17272	Disc retention bolt M24	10
AMT-17274	Disc retention bolt, off-grid M24	10
AMT-11605	Off-grid block 40x40x120mm	5
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.



Kit #AMT-10160



AMT-10160

Vacuum Kit, 144 pieces

Use this vacuum kit to hold parts without clamps.

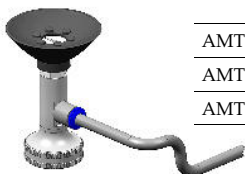
Includes a 9-port manifold and all needed connectors. Select any combination of cups to configure your own kit. AMT high precision components with hard coat anodize finish.

This suction cup kit assembles effortlessly and can hold flat parts tightly to the locators.

Can be used with all AMT kits or can be adapted to different thread sizes.

Part Number	Description	Qty.
AMT-15070	Vacuum extension	9
AMT-16110	Cup, flat 10mm	9
AMT-16111	Cup, flat 20mm	9
AMT-16112	Cup, flat 30mm	9
AMT-16113	Cup, flat 52mm	9
AMT-16118	Cup, 1.5 bell 11mm	9
AMT-16119	Cup, 1.5 bell 20mm	9
AMT-16120	Cup, 1.5 bell 33mm	9
AMT-16121	Cup, 1.5 bell 53mm	9
AMT-16126	Push-on barb 1/8" NPT 10-20mm	9
AMT-16127	Hollow screw fitting 30-50mm	9
AMT-16128	Adapter 1/8" male 30-50mm	9
AMT-16129	Compressed air inlet valve	1
AMT-16130	Reducer 1/4" x 1/8"	1
AMT-16131	Nipple, 1/8"	1
AMT-16132	Adapter 1/8" female x 1/8"	9
AMT-16133	Vacuum generator	1
AMT-16134	Reducer, 3/8" male x 1/8" female	1
AMT-16135	Manifold, nine 1/4" side ports / two 3/8" end ports	1
AMT-16136	Plug 3/8"	1
AMT-16137	Valve 1/4" NPT x 1/4" tube	1
AMT-16138	Adapter, Swift-Fit male 1/4" tube x 1/4" NPT	9
AMT-16139	Handle, red	9
AMT-16140	Tubing, polyurethane 1/4" x 50'	1
AMT-10043	Storage drawer, adjustable	1

Fixturing Kits



Kit #AMT-10210

**AMT-10210****Retention Connection Element Kit,
120 pcs, System 25**

This retention type connection element kit contains elements for connecting System 25 Hollows and Solid Bars to each other, or to grid plates.

Retention lock connections are fast and positive. Expand your kit!

Black oxide finish on retention connectors.

See Material Properties on page 4.

Part Number	Description	Qty.
AMT-17112	Combi retention bolt 12.5xM6	10
AMT-17113	Double retention bolt 12.5	20
AMT-17133	Lock for retention bolt	70
AMT-17172	Disc retention bolt M24x12.5	10
AMT-17174	Disc retention bolt, off-grid M24x6.7	10
AMT-10043	Storage drawer, adjustable	1

Note: All kits include needed tools.



AMT-17174
Disc retention bolt,
off-grid



AMT-17172
Disc retention bolt



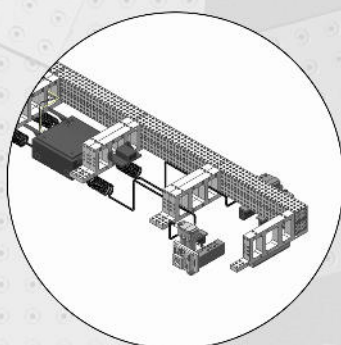
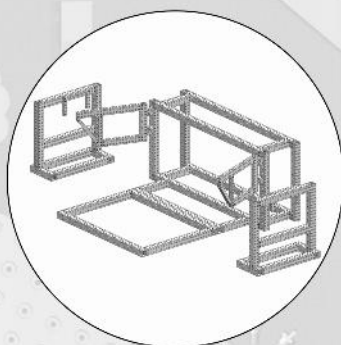
AMT-17112
Combi retention bolt



AMT-17113
Double retention bolt



AMT-17133
Lock for retention
bolt



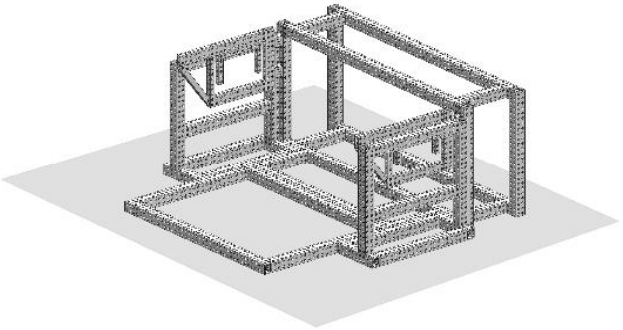


SOLUTIONS®

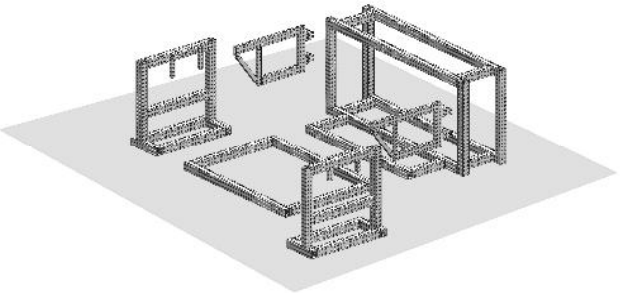
How it works:

Interior Buck

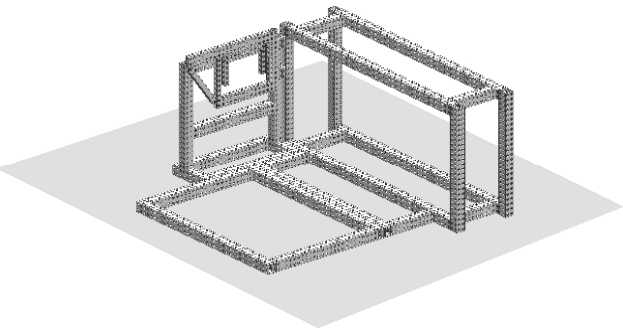
Let us help you design standard armature units for cross-platform use utilizing a common practice approach.



Buck



Buck Exploded



Billboard





Part No.	Dimensions	System
AMT-14556	Custom	25 / 40

AMT Car Instrument Panel Armature



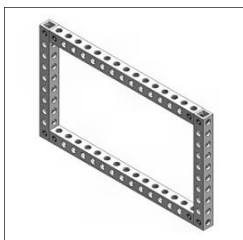
Part No.	Dimensions	System
AMT-14516	Custom	25 / 40

AMT Seat Platform.



Part No.	Dimensions	System
AMT-14517	Custom	25 / 40

AMT Door Trim Armature with functional hinge hardware, 800 x 480 mm



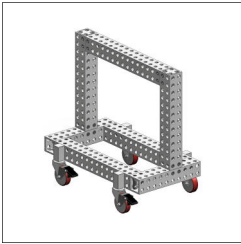
Part No.	Dimensions	System
AMT-14520	Custom	25 / 40

AMT Door Trim Panel Armature. Add hinge assembly AMT-14144 (page 136) if needed.



Part No.	Dimensions	System
AMT-14524	Custom	25 / 40

AMT Door Panel Jig with Door Attachment

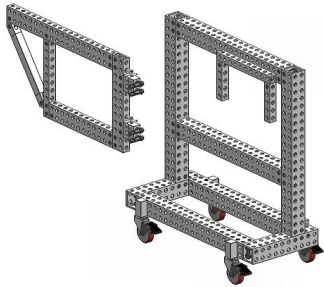


Part No.	Dimensions	System
AMT-14519	Custom	25 / 40

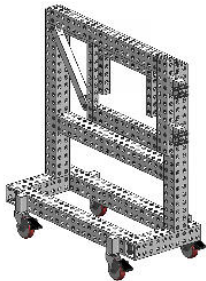
AMT Door Panel Jig.

SOLUTIONS® How it Works

Door removes from
milling and sculpting
stand to allow for
functional open and
close operation.



Easy packaging.





Part No.	Dimensions	System
AMT-14530	Custom	25 / 40

AMT Tunnel Console Milling Jig

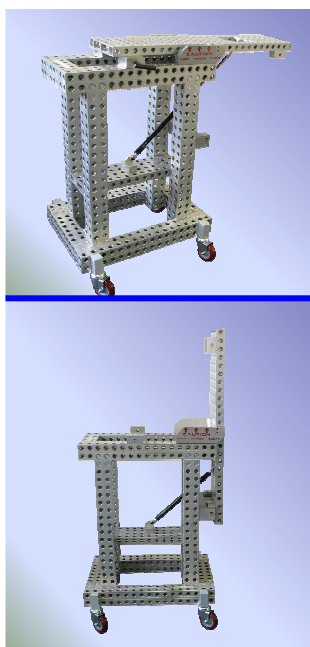
SOLUTIONS®

How it works

Handy tool for milling tunnel consoles. Allows pivot to 90° and 180° positions with high accuracy.

Extend the capabilities of your 3 axis milling system with this tool.

Bars, bases and platforms are flat, square and parallel for both positions and locating on a plate



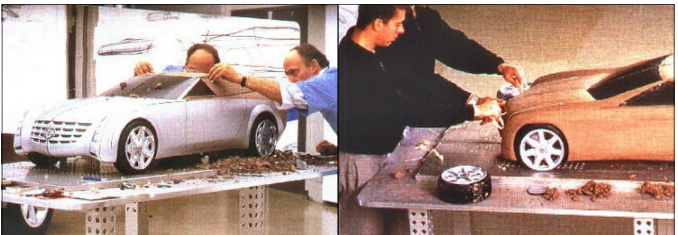
Part No.	Dimensions	System
AMT-14523	650 x 1500 x 800	25 / 40

AMT Studio Jig, milling and hand sculpting table.



Part No.	Dimensions	System
AMT-14575	1200 x 2000 x 800	25 / 40

AMT Modeling Table Jig, 1/3 scale, full model size for milling, sculpting and display. Other sizes and scales are available, specify when ordering..

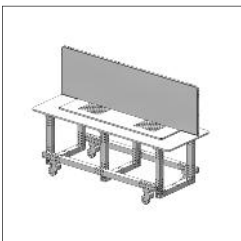
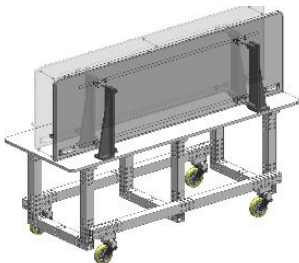


AMT Mirror Tables save time and money and offer excellent display and preview quality.

SOLUTIONS®

How it works

Optional, adjustable mirror moves away from the 1/2 scale model centerline for easy milling and hand sculpting applications.

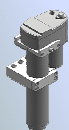
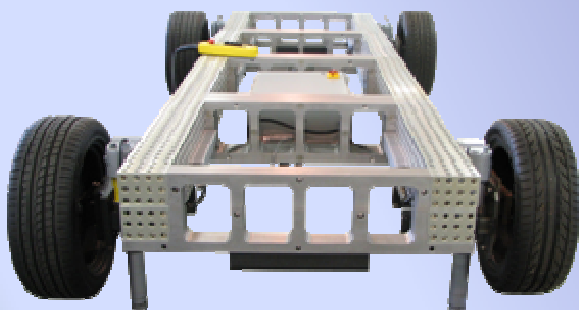


Part No.	Dimensions	System
AMT-14573	Custom	25 / 40
AMT-14574	Custom	25 / 40

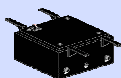
AMT Modeling Table Jig available with or without distortion free mirror. 1/3 scale, half model size for milling, sculpting and display. Other sizes and scales are available, contact us for details.

SOLUTIONS®
Ideas

Exterior Armature



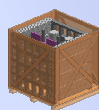
Actuator



Control Box



Hand Pendant



Shipping Box

SOLUTIONS®**How it Works**

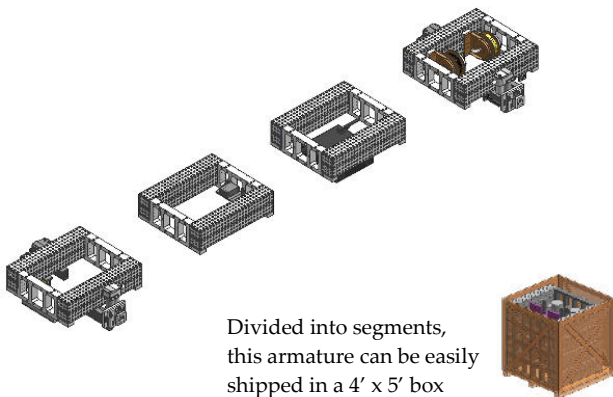
This light weight, modular armature brings new opportunities to the pre-prototype and prototype industries, providing highly accurate work and attachment surfaces. Holes, precisely located in a grid pattern, are used to fasten other modular components to hold simulated protuberances or attach vehicle components.

Wood, polystyrene, clay, urethane, aluminum and other typical materials used to represent final surfaces may be applied in their raw state and machined while still on the armature structure. Initial weight limit is tested to 10,000 lbs; heavier load values are available upon request.

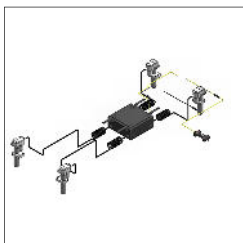
The Armature's modular construction allows for expansion in increments of 40mm in the following directions: (X) fore/aft, (Y) cross car and (Z) height. Adjustable wheel brackets, with production hubs, rotate freely allowing the armature to roll easily on standard wheels and tires and allow finer adjustments for wheel base and tread width:

- ⊕ Cross car: 100mm (4 inch) on either side or combined right and left, 200mm (8 inch)
- ⊕ Fore/Aft: every 40mm hole-to-hole, and fine adjustment between holes of 20mm
- ⊕ Up/Down: 50mm (2 inch)

Auto-leveling is accomplished with linear actuators. Each actuator features 0-10" of movement up/down and an individual load capacity of 1½ tons, for a combined load of 12,000 lbs., a 24 volt motor, 110/230 AC power (no switch) and is PLC controlled for height. Leveling feedback is via high gain electronic inclinometer. Auto-leveling is achieved by moving the armature to the approximate height and pushing the single push button on the hand box to initiate the leveling sequence this is accomplished in less than two minutes. Tests have provided 0.010" levelness repeatedly. Actuators may be packaged inside or outside the frame and, in either case, behind the wheels if desired. Simple, clean presentation and easy assembly. (Patent Pending).



Divided into segments,
this armature can be easily
shipped in a 4' x 5' box



Part No.	Dimensions	System
AMT-14690	—	25 / 40

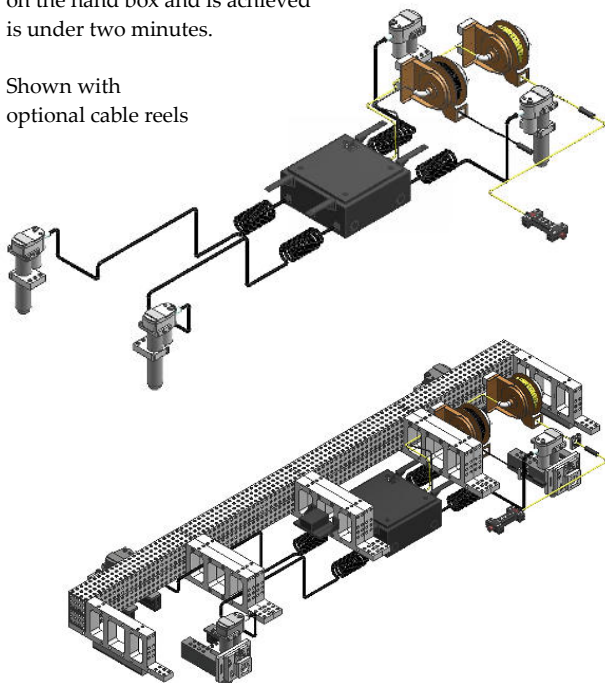
Leveling System: Hand Pendant / Controller / 4 Actuators with cables. Patent pending.

SOLUTIONS®

How it works

AMT Auto Leveling System with 12,000 lb capacity. Auto leveling is initiated with a push of the single button on the hand box and is achieved in under two minutes.

Shown with optional cable reels



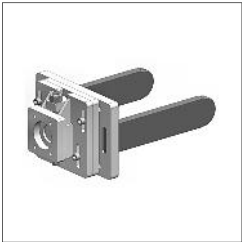
Hand Box



Control Box

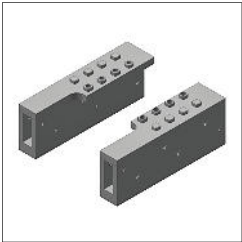


Actuator



Part No.	Dimensions	System
AMT-14660	—	25 / 40

AMT Six-Way Adjustable Wheel Bracket. Steel fab—precision machined. Patent pending.

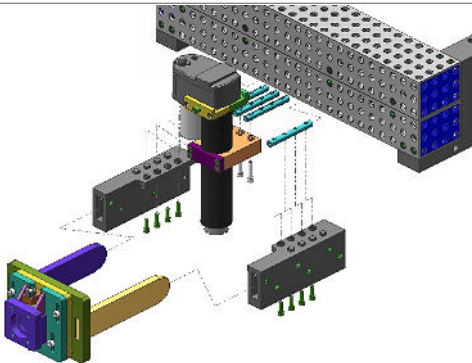


Part No.	Dimensions	System
AMT-14659	—	25 / 40

AMT Wheel Guide Blocks, steel fab—precision machined. Patent pending.

SOLUTIONS®

How it works



Adjustable wheel brackets combined with wheel guide blocks provide a six –way adjustable wheel bracket. Locate and fasten along the armature to set wheelbase length. Patent pending.



Part No.	Dimensions	System
AMT-14541	80 x 80 x 20 mm	40

AMT Bubble Level Mounted On AMT Block. Includes all mounting hardware.



Part No.	Dimensions	System
AMT-14540	80 x 40 x 80 mm	40

AMT Adjustable Foot Level Assembly. Includes all mounting hardware.



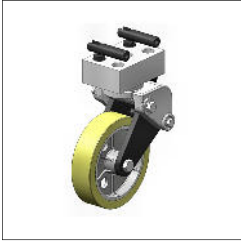
Part No.	Dimensions	System
AMT-14161	4"	25 / 40
AMT-14163	6"	25 / 40

AMT Caster Assembly, 4" or 6", without Brake. Assembly includes one shortened bolt, one lock and all mounting hardware.



Part No.	Dimensions	System
AMT-14162	4"	25 / 40
AMT-14164	6"	25 / 40

AMT Caster Assembly, 4" or 6", with Brake. Assembly includes one shortened bolt, one lock and all mounting hardware.



Part No.	Dimensions	System
AMT-14167	5" diameter	25 / 40

AMT Caster Assembly with soft, non-flattening wheels and shock absorbers. Includes all mounting hardware.



Part No.	Dimensions	System
AMT-14510	20 x 12 mm M12	Metric
AMT-14511	20 x 12 mm 1/4-13	English

AMT 80x80 Hollow to Plate Pin with Delrin® Washer. Ensures accurate alignment between a fixture and foot plate.



Part No.	Dimensions	System
AMT-14144	40 x 80 x 80 mm	40
AMT-17266	M10 x 43 Spare screw for hinge assembly	40

AMT Universal Clevis / Hinge made of tool steel. Packaged in sets of two, includes mounting hardware.



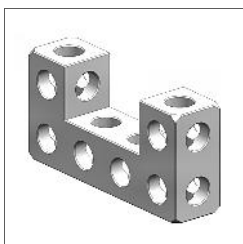
Part No.	Dimensions	System
AMT-14535	40 x 80 x 80	25 / 40

AMT 90° Door Stop Set , 1 each left hand and right hand.



Part No.	Dimensions	System
AMT-14505	—	25 / 40

AMT Steering Column Adapter Upper And Lower Mount Kit simulates your column with all positions available. Includes all mounting hardware.



Part No.	Dimensions	System
AMT-11520	25 x 50 x 100	25
AMT-11521	25 x 50 x 125	25

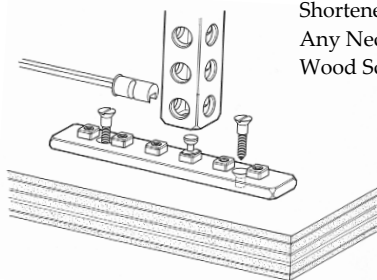
AMT Scale Model Mounting Block, designed to attach model to table, "U" shaped. Ideal for model display and wind tunnel testing applications.



Part No.	Dimensions	System
AMT-14546	7 x 25 x 150 mm	25

AMT Wood Attachment Plate. Ideal for fastening wood and other substrates to AMT Hollows.

SOLUTIONS® How it works



Designed To Accept AMT Shortened Bolts. Please Order Any Necessary AMT Bolts or Wood Screws Separately.

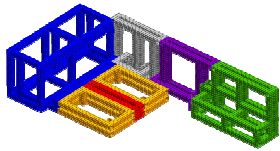


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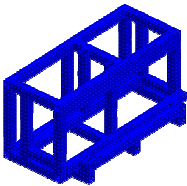
Ideas

Custom Interior
Armature Assemblies
Are our Specialty.

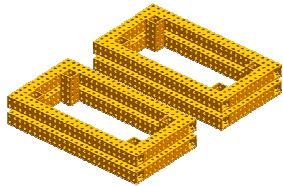
Assembly and design
services are available.



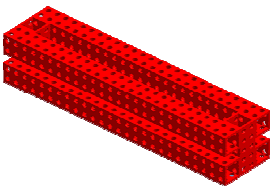
Interior Armature Assembly



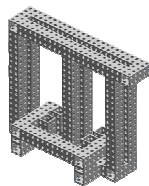
Instrument Panel



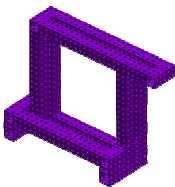
Seat Platforms



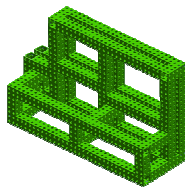
Tunnel Platform



Front Door Armature



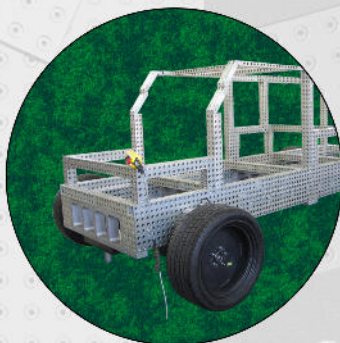
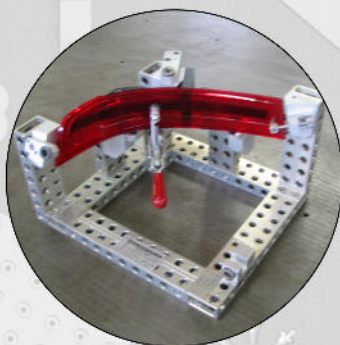
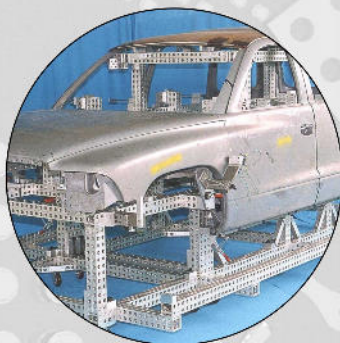
Rear Door Armature



Bed / Rear Armature

Add AMT Adjustable
Leveling Feet, Bubble Level
and Casters to make this
armature portable and
accurately leveled when
removed for display.

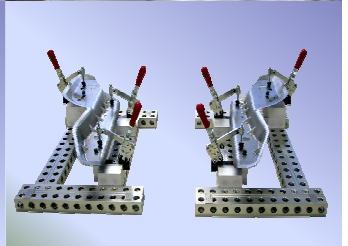
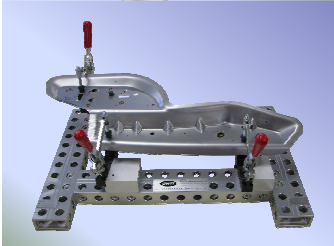
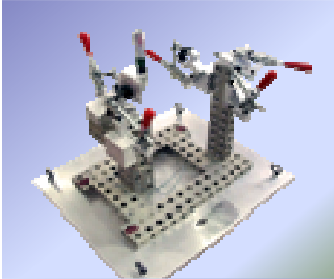






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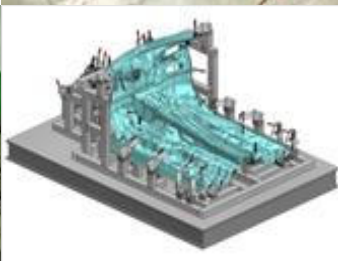
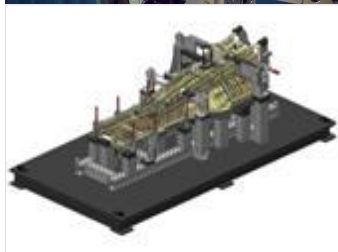
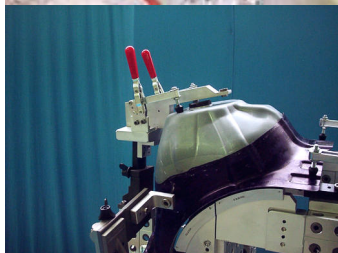
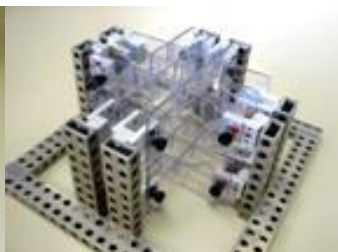
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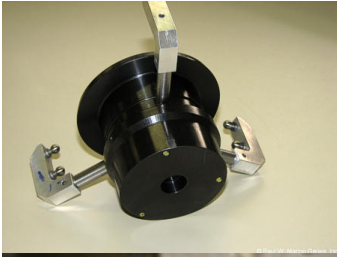
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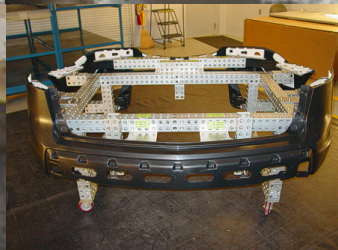
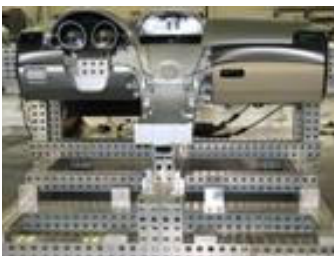
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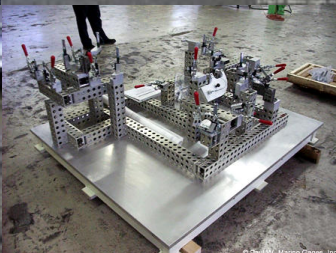
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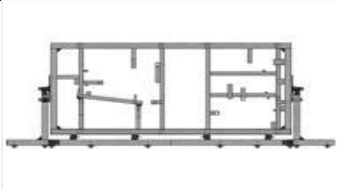
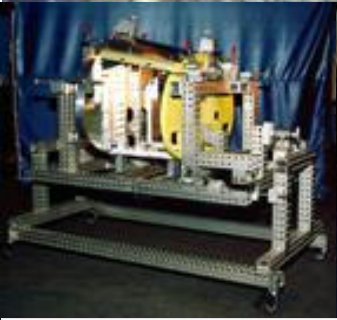
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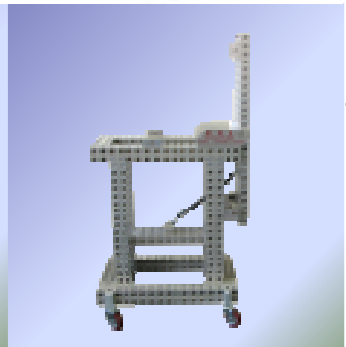
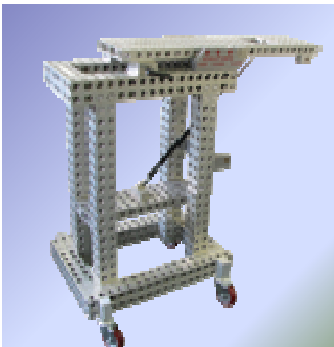
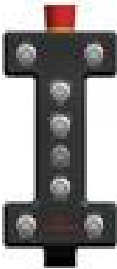
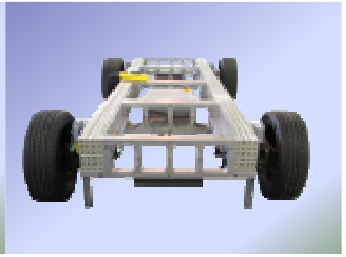


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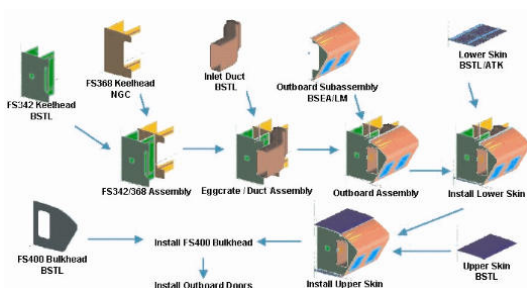
Photos

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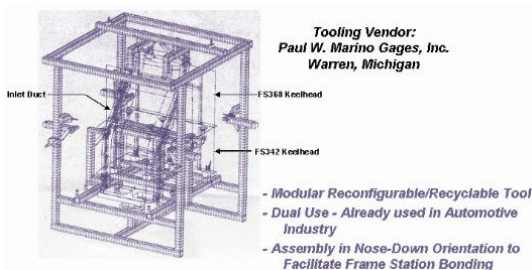
Fax (586) 759-2423
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SOLUTIONS® Ideas

Forward Center Fuselage



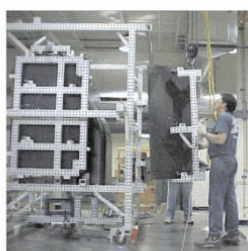
The Parts



The Plan

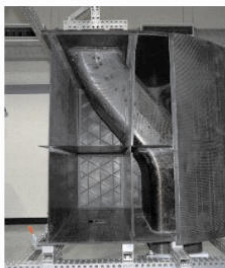


Eggcrate / Duct Assembly

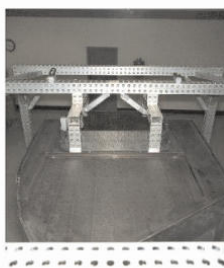


Installation of Outboard Subassembly

The Job



Iso Grid Lower Skin Installed



FS400 Bulkhead

The Finished Product

Above photos contributed by Tim Tyahla,
The Boeing Company



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SYMBOL FOR:	ASME Y14.5M 1994	ISO
STRAIGHTNESS		
FLATNESS		
CIRCULARITY		
CYLINDRICITY		
PROFILE OF A LINE		
PROFILE OF A SURFACE		
ALL AROUND		(preferred)
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		(preferred)
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		(preferred)
COUNTERSINK		(preferred)
DEPTH/DEEP		(preferred)
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



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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.

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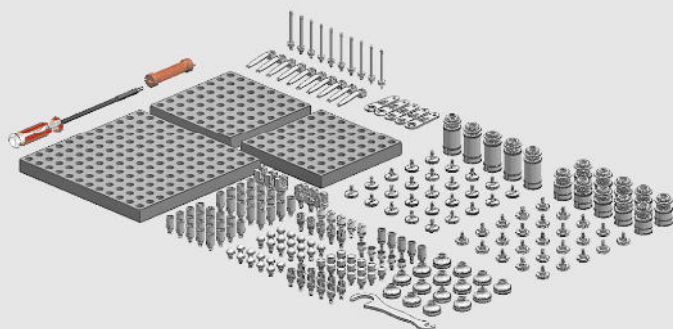


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- ⊕ Professional Grade
- ⊕ Intellectually Inspired Technology
- ⊕ Enduring Performance
- ⊕ Total Aggregate Value

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