

SPACE **AiD**
MANUFACTURING



DESIGN | MANUFACTURE | INSTALL



SPACE MANUFACTURING

PROFILE

Founded in 1967 by Max Pruffer, M&P Tool Products Inc. began as a custom machine tool and die manufacturer. Over the last four decades we have evolved from a two man operation into a leading independent manufacturer of steel material storage products and custom metal fabrications with over 100 employees and a global distribution network.

We strive for excellence in all facets of our organization and are committed to providing our customers with superior service, on-time deliveries and competitive pricing.

FEATURES

- All products are designed in accordance with governing regulations including CSA and RMI (Rack Manufacturers Institute), Municipal and Provincial Building Codes and the Ontario Health and Safety Act where applicable.
- All welding is performed by Canadian Welding Bureau (C.W.B.) certified welders.
- Custom designed engineering programs, AutoCAD and AutoDesk Inventor provide optimal product configurations.
- All products are available in powder coated or galvanized finish.

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MEZZANINES

Our modular designed mezzanine platforms transform wasted overhead space into valuable floor space at a fraction of the cost of new construction. All mezzanine platforms are designed to meet specific customer and building code requirements. Standard capacity is 125lbs./sq.ft. but can be adjusted to suit any capacity and deflection criteria. Modular designs allow for future additions, modifications and relocation if necessary. Structural review and stamped drawings are available by both Professional Engineer and Architect.

STANDARD COMPONENTS:



Structural



Cross Over



Open Web Joist

TRUSSES

Pre-engineered open web steel joist or structural wide flange designs are manufactured from 50ksi material. Standard truss heights range from 8" to 14" with larger profiles available to meet increased loading and deflection requirements.

COLUMNS

Typically range from 3"sq. – 6" sq. H.S.S. and are designed to suit specific loading conditions.

HANDRAILS

42" high and manufactured from H.S.S. materials. Our unique vertical picket design with 5" kick plate meets current Municipal, Provincial and National building codes.

STAIRCASES

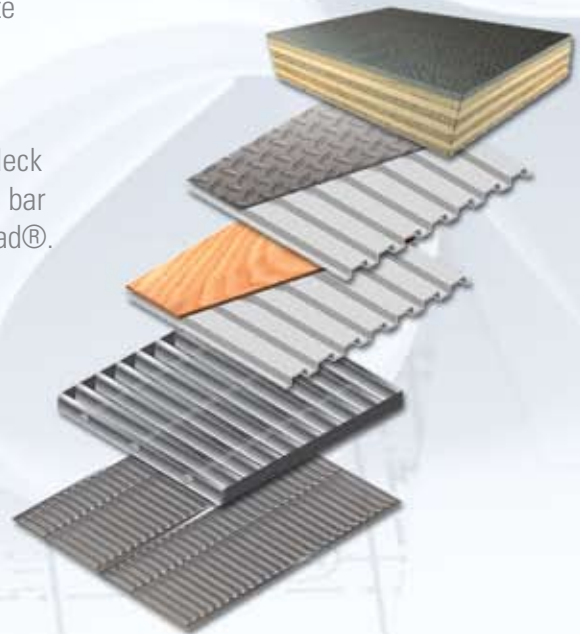
Constructed using rigid structural components and can be designed for direct or side entry to the mezzanine platform. Egress calculations are used to determine the quantity and placement of stair sets for each project.

GATES

Pivot gate, sliding gate, and swing gate options are available.

FLOORING OPTIONS

Includes corrugated galvanized roof deck with plywood or checkerplate, rod and bar grating, open steel plank and Mezz-Tread®.



PALLET RACKING

Space Aid manufactures our own brand of pallet racking, UNI RAK. Pallet racking systems are designed using two basic components; pre-assembled welded end frames and rigid one-piece interlocking horizontal beams. Beams engage into frames on 3" increments and come standard with safety clips to prevent disengagement from frames. All racking systems are designed and manufactured in accordance with applicable regulations and specifications.



Pallet Racking



Carpet Racking



Die Racking

FRAMES: Standard sizes are available in 24" to 60" depths and up to 25' high. Special sizes are available and Space Aid can design and manufacture to suit any customer requirement.

BEAMS: Available in roll formed box, welded step and roll formed step styles. Beam capacities range from 1,000 lbs. to 12,000 lbs. per pair and are available in lengths ranging from 24" to 192". Box beams are typically used to store conventional pallets and work best using accessories such as safety bars or wire mesh decks. Step beams allow for drop in decks, shelves and many additional accessories designed for product stacking and hand pick applications.



UNIRAK
SD / MD / HD1



UNIRAK
HD2



UNIRAK
HD3



If attempting to match existing racking it is imperative that you consult Space Aid's Engineering Department to ensure that your system configuration complies with all updated regulations and specifications in accordance with Regulation 851 of the Occupational Health and Safety Act. CSA standard A344.1 User Guide for Steel Storage Racks and A344.2 Standard for the Design and Construction of Steel Storage Racks will be used as the basis for evaluation.

PALLET RACKING ACCESSORIES

- Welded Safety Bars
- Galvanized Decks
- Backstop Beams
- Formed Safety Bars
- Skid Supports
- Row Spacers
- Lock in Safety Bars
- Post Protection
- Dividers
- Wire Mesh Decks
- Drum Cradles
- Sprinkler Guards

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CONTAINERS

Our rigid welded containers are ideal for a wide range of shipping, processing and storage applications. Stackable up to five high when loaded, their heavy gauge split tube or structural steel frame construction produces a rugged yet economical product. Standard cup feet and four way access make these containers safe and easy to handle. Standard sizes are available in both solid sheet and expanded mesh. Collapsible and drop bottom versions are also available.



NCE-S-GW2

Size 40" x 48" x 40" O.H.
Capacity: 4,000 lbs. 29cu. ft.
¾-13 Expanded Metal Sides
Solid Sheet Floor
Two Half Drop Gates on Short Sides



SCS-S-GW2

Size 34-1/2" x 40-1/2" x 32-1/4" O.H.
Capacity: 3,000 lbs. - 15cu. ft.
Solid Sheet Sides
Solid Sheet Floor
Two Half Drop Gates on Short Sides



SCE-E-GW2

Size 34-1/2" x 40-1/2" x 32-1/4" O.H.
Capacity: 2,500 lbs. - 15cu. ft.
¾-13 Expanded Metal Sides
¾-13 Expanded Metal Floor
Two Half Drop Gates on Short Sides



SCE-S-GW2

Size: 34-1/2" x 40-1/2" x 32-1/4" O.H.
Capacity: 3,000 lbs. -15cu. ft.
¾-13 Expanded Metal Sides
Solid Sheet Floor
Two Half Drop Gates on Short Sides

OPTIONAL FEATURES:

- Security Lids
- Dividers
- Long Side Gates
- Combined Material
- Card Holders
- Leg Caps
- Bumpers
- No Gates
- Pin/Target Feet
- H.S.S. Construction
- Stenciling / Labeling
- Casters



SPECIAL CONTAINERS

When standard containers are not compatible with your exact requirements, Space Aid's design staff can create a special container to meet your exact needs. Space Aid manufactures special containers by combining standard components with custom configurations. Special containers are available in solid sheet, expanded metal, perforated metal, corrugated metal and wire mesh options and remain economically priced.

STACKING RACKS

An excellent portable alternative to static pallet racking, stacking racks save valuable space by storing bulk items in individual racks. A safe and economical product, stacking racks are typically constructed using structural materials. Collapsible options make empty stacking racks easy to store in only a fraction of the space used when loaded. Each rack is designed to meet your exact loading requirements.



OPTIONAL FEATURES:

- Slave Carts
- Fork Runners
- Collapsible Sides
- Fork Straps
- Stenciling
- Removable Posts
- Casters
- Labeling
- Expanded Mesh Floor

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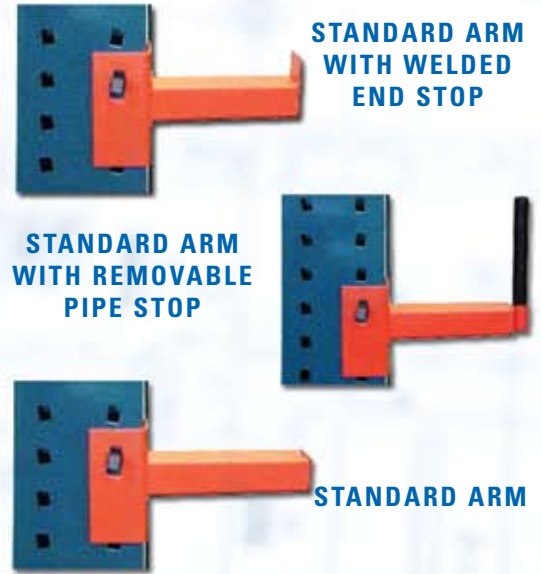
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CANTILEVER RACKING

Our heavy duty Cantilever racking systems are designed to store a wide variety of products with unrestricted front access for standard and oversized items. Reducing handling time and increasing flexibility of storage positions, Cantilever racking allows quick access and is designed to accommodate loads with no vertical obstructions. Standard column heights range from 6' to 24' and Cantilever arms range from 18" to 60". Systems are capable of storing up to 100,000 lbs. per column. Custom designs are common and can be designed to meet your exact requirements.



Double Sided System



Cantilever racking offers precision inventory control for any business using material of various lengths and sizes. Typical loads include metal extrusions, steel bars, tubes, pipes and lumber. With the use of narrow aisle or guided rail systems, high density Cantilever racking maximizes floor and vertical space. Floor guide rails and entry guards make cantilever safe and easy to use.

STANDARD COLUMN HEIGHTS

6' – 24'

STANDARD ARM LENGTHS

18" – 60"

VERTICAL BRACE PANEL WIDTHS

24" – 90" Column centers

CAPACITIES

Per Column (Side) 3,800 lbs – 100,000 lbs.

Per Arm: (U.D.L. Each)

624 lbs. – 8,300 lbs.



Single Sided System

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FLOW PRODUCTS

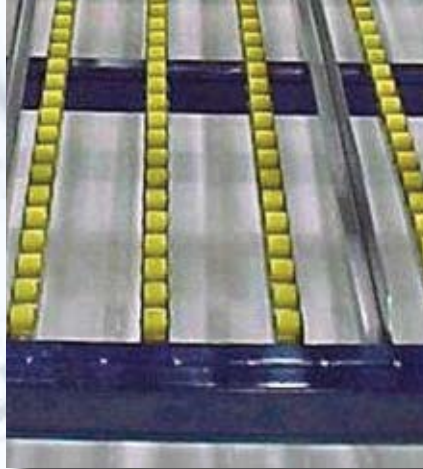
Space Aid Offers a wide variety of flow products that can be engineered specifically to meet your exact needs. By combining product analysis information and identifying product flow volume requirements, Space Aid will design a system that maximizes storage and flow performance.

CARTON FLOW:

Ideal for both manual full carton and individual parts picking applications, Carton Flow allows product rotation on a First In, First Out basis (FIFO). Utilizing a calculated angle of decent, Carton Flow roller tracks position cartons automatically from the restocking position (charge) to the picking position (discharge) of the system allowing order pickers and assemblers uninterrupted product supply. Average design loads range from 5 lbs. to 125 lbs. per linear foot with maximum flow lengths up to 144". Flow tracks are constructed from roll formed galvanized channel fitted with polypropylene rollers on riveted steel axles. Entry and exit beams incorporate a track locating channel adjustable on 2" horizontal increments allowing easy and accurate placement of tracks and dividers.



Carton Flow System



Tracks and Dividers

OPTIONAL FEATURES:

- Card Holders
- Dividers
- Additional Lanes
- Wheels on 1.333", 2" or 4" centres
- Staggered wheel patterns

PALLET FLOW:

Offering substantial labour and space savings over selective or Drive-In racking systems, Pallet Flow utilizes a calculated angle of decent to advance pallets along roller track or track beds from restocking position (charge) to the picking position (discharge) of the system. This First In, First Out system (FIFO) simplifies tracking and locating inventory while ensuring that product receives proper stock rotation. Each system is uniquely designed by Space Aid's Engineering Department to fit your operational requirements. Standard systems are designed to accommodate CPC or GMA pallets, however designs are available to suit non-standard pallets and containers.



Pallet Flow

PUSH BACK:

A First In, Last Out system (FILO), Push Back is designed to offer increased storage density with more pick faces than traditional high-density systems. Available in 2 to 6 deep systems Push Back is capable of handling up to 3,000 lbs. per pallet position. Standard designs are for CPC or GMA pallets, but non-standard designs for other weights, pallet sizes and containers are available. Each system is designed by Space Aid's Engineering Department to fit your operational needs. Push Back systems require less space than Pallet Flow systems and can be arranged as back-to-back or stand alone bays.



Push Back Racking

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DRIVE-IN RACKING

Ideal for high density pallet storage applications, Drive-In and Drive-Thru racking are unique First In, Last Out (FILO) styles of racking that have higher storage densities than any other racking systems available. Drive-In racking enables standard fork truck access into the face of the system allowing larger storage blocks which reduces the number of required aisles. Capable of storing almost any pallet size or weight, each system must be specifically designed and analyzed by Space Aid's Engineering Department.



OPTIONAL FEATURES

- Canted Entry Frames
- Rub Rails
- Structural Bases
- Inverted Rails
- Post Protectors
- X-Bracing

SECURITY FENCING / ENCLOSURES

Secure areas within your facility with Space Aid's security fence enclosures. An economical bolt together enclosure can be tailored to suit virtually any customer requirement or configuration. Standard modular panels are 48" x 96" and are constructed from 2" x 2" mesh in a welded angle frame. Posts, doors, and sliding gates each come in a wide range of standard dimensions designed to suit many standard and special applications. Optional roof systems and various wire configurations are also available.



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SHELVING

Space Aid manufactures three series' of boltless shelving, LD (Light Duty), SD (Standard Duty) and MD (Medium Duty). Designed for superior strength and durability, MAXI SHELF is an ideal product for any application. Beams are adjustable on 2" vertical increments and accommodate many different shelf types. Standard shelf types include galvanized decks, plywood, particle board and wire mesh decks.



MAXI SHELF SD/MD

MAXI SHELF SD and MD series frames are constructed using 14ga. materials, have a 1.5" x 2" post profile, and can be designed to allow up to 3,000 lbs. per shelf level. Welded footpads are standard.

MAXI SHELF LD

MAXI SHELF LD series frames are constructed using 16ga. materials, have a 1.5" x 1.5" post profile, and can be designed to allow up to 750lbs. per shelf level. Welded footpads are optional.

ACCESSORIES

- Steel Shelves
- Plywood
- Wall Ties
- Row Spacers
- Dividers
- Wire Mesh Decks
- Under Shelf Supports
- Particle Board
- MDF / HDF
- Melamine Decks
- And More...

METAL STAMPINGS

By using the latest design software to create single stage and progressive tooling, our qualified Tool Design Department provides our customers singular source control for all low or high volume stamping requirements. All work is done onsite by qualified individuals in our fully equipped tool room.



ADVANTAGES THAT OUR STAMPING FACILITY HAS TO OFFER:

- Single stage press stations ranging from 25t – 250t for cut to length or sheet stock
- Progressive tool press stations ranging from 80t – 400t for coil stock
- High speed production up to 110 strokes per minute (S.P.M.)
- Automatic feed riveting stations
- Unlimited run quantities
- Multi diameter rod bending, rolling and cut-off operations
- Full assembly & finish capability – mechanical / welding

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FINISHING

Space Aid Manufacturing offers the following finishing operations:

- Baked on Polyester Powder Coating
- Plastic Coating & Rubber Dipping
- Hot Dip Galvanizing
- Zinc Plating
- Tumbling

SPACE AID STANDARD COLOURS

SPACE AID PREMIUM COLOURS



Please note that due to differences in colour when printing, colours may not be exactly as shown. Please ask for a sample before selecting your colour.

- Premium and Custom colours are available upon request for an additional cost.
- Colours may vary slightly when applied to steel.
- Standard colours can be used for any product at no additional cost.

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