



# STAK SYSTEM® ADJUSTABLE RACKING



# LARGE CAPACITY. SMALL FOOTPRINT. ERGONOMIC SAFETY.

**THE STORAGE AND RETRIEVAL OF HEAVY, BULKY  
ITEMS HAS NEVER BEEN EASIER!**

With the STAK System®, one operator can efficiently manage loads weighing up to 4,000 lbs. – all in a footprint that’s as much as 70% smaller than fixed horizontal beam rack storage. No forklift needed!

Based on a system of dynamically adjustable pallets (rather than fixed shelves) and a captive lifting and handling device, the STAK System® helps maximize storage density by minimizing the vertical space requirements of each stored pallet and its contents.

**SAVES VALUABLE FLOOR SPACE, SAVES TIME,  
AND BOOSTS PRODUCTIVITY...SAFELY!**



## VIDMAR

Introduction	opposite
Features	page 2
Applications	page 3
Pallets	page 4
Options & Accessories	page 5
Add-Ons / Features	page 6
2K STAK System®	page 8
4K STAK System®	page 14
HazMat STAK System®	page 15
ARS Adjustable Rack System	page 16
Color Choices	page 18



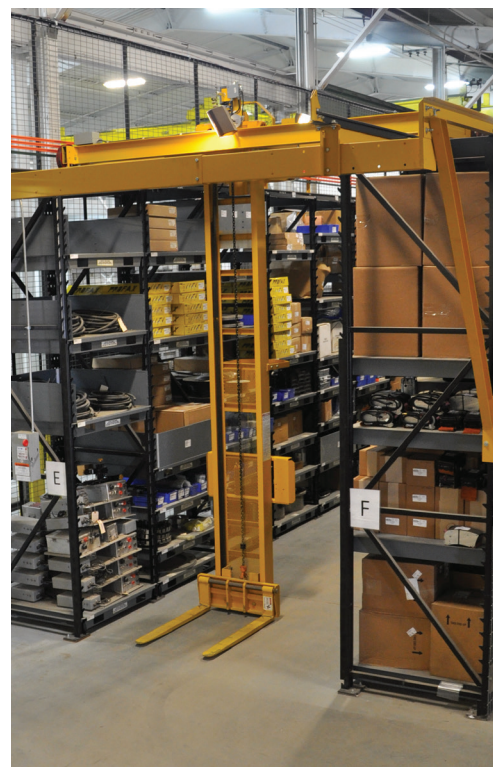


# DYNAMIC PALLET-BASED STORAGE AND HANDLING SYSTEM

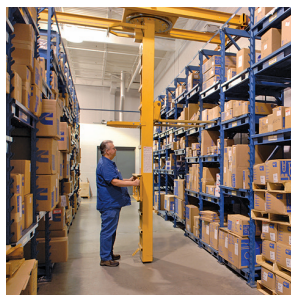
**STORE OR RETRIEVE LOADS MORE QUICKLY –  
REGARDLESS OF SIZE, SHAPE, OR WEIGHT!**

- **Space Savings** – Squeeze wasted air out of your vertical storage and make use of every cubic foot! Free up floor space for other uses.
- **Value** – Maximize the use of your cubic space, and get more productivity from your entire facility.
- **Manpower Efficiency** – Retrieve items weighing up to 2 tons with just one person.
- **Ergonomic Safety** – Lifting and handling device is engineered for maximum ease of use.
- Ease of retrieval and inventory control – Stored items are easily located, positioned and repositioned.
- **Precise Load Positioning** – Pallets are positioned in the STAK System® at vertical increments of 4", so items can be stored exactly where you want them, on the fly.
- **Reduced Use of Fork Trucks** – Fewer fork trucks means greater savings, greater safety on your shop floor and less wear and tear to floor. Operation of the STAK System® lifting and handling device doesn't require certification.
- **Product Protection and Security** – Store large items on safe, protected pallets, off the floor.
- Ideal for work-in-process, maintenance, tooling and fixturing, and supply and distribution.
- Available as 2K STAK System® (2,000-lb. capacity), 4K STAK System (4,000-lb. capacity), or HazMat STAK System® (2,000-lb. capacity). Consult factory for capacities above 4,000 lbs., extended height systems, or oversized pallets.

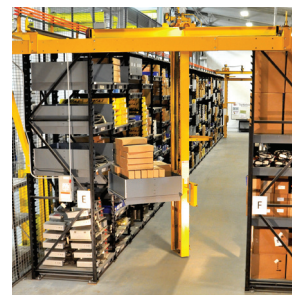
The STAK System® is designed to be easily expanded incrementally as your storage needs grow. And with along list of available accessories, your STAK System® can be designed to your facility's exact requirements. For more information or a free site analysis, visit [www.staksystem.com](http://www.staksystem.com).



Store a wide range of items of varying sizes, shapes and heights, with a minimum of wasted space!



Aisle space requirements are narrower than those required when using a conventional forklift.



The system can be configured in a number of ways, and can incorporate mid-aisle access. See page 15 for more.



THE STAK SYSTEM® IS LOADED WITH FEATURES TO SAVE SPACE AND MAXIMIZE PRODUCTIVITY.



The STAK System® is fully modular. Rack capacity is 25,000 lbs. per section and 50,000 lbs. per bay. (seismic zones 1 and 2).



Add on bays to allow your STAK System to grow as you grow. You can even add sections of mixed widths in the same system!



Loaded pallets are easily extracted and positioned.



Pallets are placed in vertical increments of 4", so items can be stored just where you want them, and are positioned via a positive engagement system.



Easy-to-learn and easy-to-use controls don't require license or certification.



Mast hovers over floor for ease of use on uneven surfaces.



Unique handling device is completely ergonomic, which makes removing even large loads easy.



Pallets are removed and replaced by guiding the mast to the new position. Handling device maneuvers on four axes, creating total 360° flexibility.



Simple, intuitive positioning enables the operator to relocate a pallet quickly, accurately and safely.



# STAK System®: Applications



**WHETHER YOU NEED IT FOR MOTORS, PUMPS, DIES AND FIXTURES, MOLDS, BARRELS, OR WORK-IN-PROCESS, THE STAK SYSTEM® CAN BE CONVENIENTLY POSITIONED IN A CENTRAL LOCATION, WHERE IT'S NEEDED MOST.**

## WORK-IN-PROCESS/BUFFER STORAGE

The STAK System® helps reduce work cycle time by locating work in-process close to the next station. Component damage is also minimized, since parts are kept off the plant floor. As a result, the STAK System® boosts operator and departmental productivity.



Work-in-process / Buffer Storage

## MAINTENANCE AND MRO

The STAK System® is ideal for bulky spare parts, motors, valves and pumps, making these hard-to-handle maintenance items easily accessible and organized. A single operator can locate and retrieve critical inventory, helping reduce production interruptions. In addition, the STAK System® eliminates disposal problems posed by oil-soaked wooden pallets.

## PLASTIC INJECTION MOLDING & TOOL & DIE STORAGE

The STAK System's® hefty weight capacity makes it a natural for the storage of tools, dies and plastic injection molds, bringing much-needed organization, efficiency, and expediency to the storage of these expensive items. With the STAK System®, your entire inventory is visible and reachable at all times, reducing downtime.



The STAK System® is ideal for storing motors, valves and pumps.



**The STAK System is ideal for a number of applications, including:**

- Manufacturing
- Agriculture
- Heavy equipment
- MRO/Maintenance
- Transportation
- Warehouse
- Utilities
- Government





DESIGNED WITH TWO FORK GUIDES IN FRONT, STAK SYSTEM® PALLETS ARE OFFERED IN A VARIETY OF STYLES AND SIZES.



- **Pallet:** Available in a variety of standard sizes, 6 widths and 4 depths (see page 10). Perfect for a wide range of uses.
- **Rear Lip Pallet:** Centered on pallet, 1¼" high rear lip provides added security by preventing items from extending beyond pallet.
- **Pallet Support Frame:** Used to store loads on skids. (one piece). Available in varying widths.
- **Tub Kit:** Four sidewalls. Available in three heights: 4 7/8", 8 3/4" and 12 5/8".
- **Tub Kit Dividers & Partitions:** Sidewall and front-to-back partitions plus dividers. Allows compartmentalization of pallets. Contact your STAK System® representative for size availability.
- **Tub Kit with Drop Front:** Items can be easily removed when front wall is dropped. Available in three heights: 4 7/8", 8 3/4" and 12 5/8".
- **Flow-Through Pallet:** Allows sprinkler system water to flow through pallet.



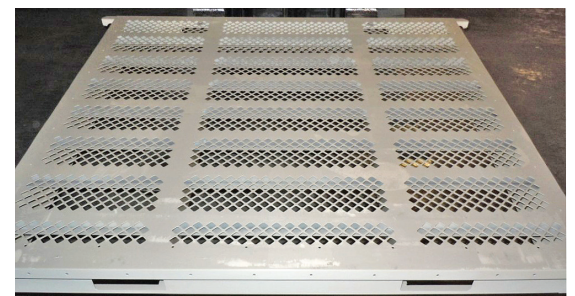
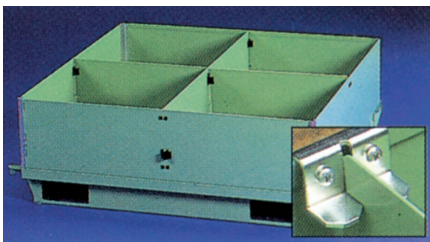
Front Engagement Detail



Rear Engagement Detail



The back of the pallet is open to accommodate a variety of material handling devices when the pallet has been removed from the system.



Flow-Through Pallet



Pallet

Rear Lip Pallet



Tub Kit



Pallet Support Frame



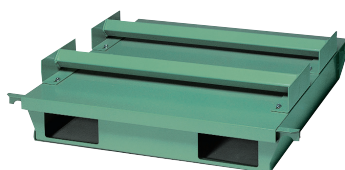
# STAK System®: Options & Accessories



Drop front tire storage feature



WIP Cart



Reel Storage

WHETHER YOU NEED IT FOR MOTORS, PUMPS, DIES AND FIXTURES, MOLDS, BARRELS, OR WORK-IN-PROCESS, THE STAK SYSTEM® CAN BE CONVENIENTLY POSITIONED IN A CENTRAL LOCATION, WHERE IT'S NEEDED MOST.

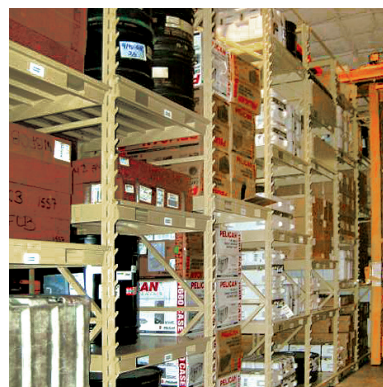
- **Tire Storage Pallet:** Cross bars secure up to six standard tires or four oversized tires. Tire storage pallet can be loaded directly to and from delivery truck, eliminating a transport step.
- **Wire Basket:** Easy-to-see storage for small or irregular items.
- **Work-in-Process Cart:** Cradles entire pallet for easy, fast delivery. Utilizes two fixed and two swivel casters with locks. Available for five pallet widths: 26½", 36", 42", 48" and 52". 2,000 lb. capacity.
- **Instant-ID Pallet Labels** (not pictured): Affix and remove labels quickly and easily with magnetically attached ID labels.
- **Toolholder** (not pictured): Heavy-duty tool storage pallet for machining centers.
- **Drum Storage:** Barrels and heavy drums can be stored horizontally in our steel cradles, or stored vertically as shown.
- **Reel Storage:** Steel brackets are attached to pallet for storage of wire rope, cable, tubing, hosing, etc.



Work-in-Progress



Wire Basket



Drum Storage





**WHETHER YOU WORK WITH SPARE PARTS, MOTORS, DIES, PUMPS, TIRES, COMPUTER EQUIPMENT, OR 55-GALLON DRUMS, WE HAVE THE ACCESSORIES YOU NEED TO MAKE YOUR STAK SYSTEM® WORK FOR YOU.**



## **Cantilever Overhang**

Allows lifting device to travel beyond racking. Ideal for parts staging or transfer. Available for pallet sizes 26 ½", 36", 42", 48", 52", 60" and 72".

## **Mast Rotation Restraint**

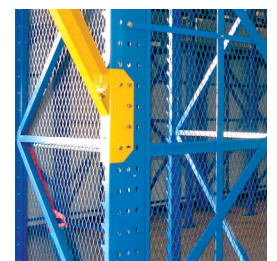
Automatically positions mast at 90° intervals (parallel and perpendicular to aisle). Can be disengaged to provide 360° continuous rotation.

## **Safety Mesh**

Recommended for STAK System® bays on or near traffic aisles or operations areas. Flushmounted nylon mesh or expanded metal, safetyrated up to 1,000 lbs. per square foot for 2K STAK® Systems and up to 4,000 lbs. per square foot for 4K STAK Systems®.



Nylon Mesh



Expanded Metal



## ADDITIONAL ADD ONS & FEATURES



### Mast/Column Pallet Locator

Allows operator to place forks in exact position required to easily remove and replace pallets in their numbered locations.



### Rear Column Brackets

Bolt to rear columns to convert unused space into manual storage space. Available in 6", 8" and 12" depths.

### Mast/Floor Lock

Holds mast in place while items are being transferred from pallet. Will compensate for up to 6" variation in floor level.

### Trolley Lock

Secures lifting device in the middle of aisle for ease of use on longer systems.

### Motorized Bridge

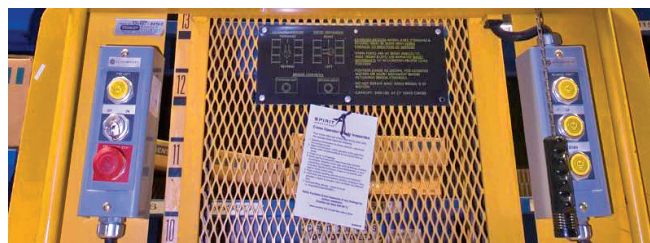
Travels at 135 feet per minute. Recommended on systems with long runs and high activity.



Column Indicator Feature



Mast/Floor Lock

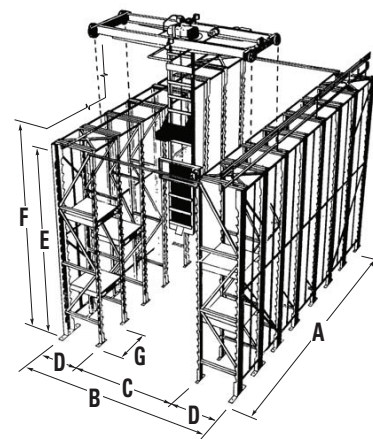


Motorized Bridge

## HEIGHT/PALLET SELECTION GUIDE

To determine the STAK System® that will best fit your building, and the number of pallets per section based on load heights, follow these simple steps:

1. Measure from floor to lowest overhead obstruction. To account for variations in floor level, check this measurement at several locations within your STAK System area.
2. Standard STAK System height is 15' 4-5/16" (4.7m). If your ceiling will not accept the standard height, select the height that will clear all obstructions from the other available heights below.
3. Match the height you selected in Step 2 with your average pallet load height in the table below. The intersection will determine the number of pallets per section. Multiply this number by the number of sections to obtain total pallet quantity. (Two facing sections equal one bay.)



## SYSTEM DIMENSIONS GUIDE

System dimensions guide reflects **2K STAK System** dimensions. If you need **4K STAK System** dimensions, please call **800-523-9462** to speak with a Stanley Vidmar Storage Sales Engineer.

A. System Length	26-1/2" x 30"	36" x 30"	36" x 36"	
PALLET SIZES	673MM x 762MM	914MM x 762MM	914MM x 914MM	
4-Bay	12' 8-1/2" (3.9m)	15' 2" (4.6m)	15' 2" (4.6m)	
5-Bay	15' 4" (4.7m)	18' 7" (5.7m)	18' 7" (5.7m)	
6-Bay	17' 11-1/2" (5.5m)	22' (6.7m)	22' (6.7m)	
7-Bay 20'	7" (6.3m)	25' 5" (7.7m)	25' 5" (7.7m)	
8-Bay	23' 2-1/2" (7.1m)	28' 10" (8.8m)	28' 10" (8.8m)	
9-Bay	25' 10" (7.9m)	32' 3" (9.8m)	32' 3" (9.8m)	
10-Bay	28' 5-1/2" (8.7m)	35' 8" (10.9m)	35' 8" (10.9m)	
11-Bay	31' 1" (9.5m)	39' 1" (11.9m)	39' 1" (11.9m)	
12-Bay	33' 8-1/2" (10.3m)	42' 6" (13.0m)	42' 6" (13.0m)	
13-Bay	36' 4" (11.1m)	45' 11" (14.0m)	45' 11" (14.0m)	
14-Bay	38' 11-1/2" (11.9m)	49' 4" (15.0m)	49' 4" (15.0m)	
15-Bay	41' 7" (12.7m)	52' 9" (16.1m)	52' 9" (16.1m)	
16-Bay	44' 2-1/2" (13.5m)	56' 2" (17.1m)	56' 2" (17.1m)	
17-Bay	46' 10" (14.3m)	59' 7" (18.2m)	59' 7" (18.2m)	
18-Bay	49' 5-1/2" (15.1m)	63' (19.2m)	63' (19.2m)	
19-Bay	52' 1" (15.9m)	66' 5" (20.1m)	66' 5" (20.1m)	
20-Bay	54' 8-1/2" (16.7m)	69' 10" (21.3m)	69' 10" (21.3m)	
B. Overall System Width	11' 11" (3.6m)	11' 11" (3.6m)	13' 7" (4.1m)	
C. Aisle Width	6' 6" (2.0m)	6' 6" (2.0m)	7' 2" (2.2m)	
D. Rack Depth	2' 7-1/2" (0.8m)	2' 7-1/2" (0.8m)	3' 1-1/2" (1.0m)	
E. Rack Height	13' (4.0m)	13' (4.0m)	13' (4.0m)	
F. Overall Height (before shimming)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	
G. Columns: Center to Center	2' 7-1/2" (0.8m)	3' 5" (1.0m)	3' 5" (1.0m)	
Add-On Bay Length	2' 7-1/2" (0.8m)	3' 5" (1.0m)	3' 5" (1.0m)	



HEIGHT/PALLET SELECTION GUIDE FOR 2K PALLETS

OVERALL	STANDARD							
HEIGHT	15' 4-5/16"	15' 7/16"	14' 8-9/16"	14' 4-11/16"	14' 13/16"	13' 8-15/16"	13' 5-1/16"	13' 13/16"
	4.7M	4.6M	4.5M	4.4M	4.3M	4.2M	4.1M	4.0M
HT. CODE	156	152	148	144	140	136	132	128
6"	9	9	9	9	8	8	8	8
10"	7	7	7	7	7	6	6	6
14"	6	6	6	6	5	5	5	5
18"	5	5	5	5	5	4	4	4
22"	4	4	4	4	4	4	4	4
26"	4	4	4	4	3	3	3	3
30"	3	3	3	3	3	3	3	3

PALLETS PER SECTION *BASED ON NOMINAL LIFTING CLEARANCE OF 4 IN.*  
*(INCLUDES STAK SYSTEM PALLET)*

**Note:** Selection guide is based on 2K STAK System pallets. If you need 4K STAK System information, please call **800-523-9462** to speak with a Stanley Vidmar Storage Sales Engineer.

42" x 36"	42" x 42"	42" x 48"	52" x 42"	48" x 48"	
1.1M x 914MM	1.1M x 1.1M	1.1M x 1.2M	1.3M x 1.1M	1.2M x 1.2M	
16' 8" (5.1m)	16' 8" (5.1m)	16' 8" (5.1m)	20' (6.1m)	18' 8" (5.7m)	
20' 7" (6.3m)	20' 7" (6.3m)	20' 7" (6.3m)	24' 9" (7.5m)	23' 1" (7.0m)	
24' 6" (7.5m)	24' 6" (7.5m)	24' 6" (7.5m)	29' 6" (9.0m)	27' 6" (8.4m)	
28' 5" (8.7m)	28' 5" (8.7m)	28' 5" (8.7m)	34' 3" (10.4m)	31' 11" (9.7m)	
32' 4" (9.9m)	32' 4" (9.9m)	32' 4" (9.9m)	39' (11.9m)	36' 4" (11.1m)	
36' 3" (11.0m)	36' 3" (11.0m)	36' 3" (11.0m)	43' 9" (13.3m)	40' 9" (12.4m)	
40' 2" (12.2m)	40' 2" (12.2m)	40' 2" (12.2m)	48' 6" (14.8m)	45' 2" (13.8m)	
44' 1" (13.4m)	44' 1" (13.4m)	44' 1" (13.4m)	53' 3" (16.2m)	49' 7" (15.1m)	
48' (14.6m)	48' (14.6m)	48' (14.6m)	58' (17.7m)	54' (16.5m)	
51' 11" (15.8m)	51' 11" (15.8m)	51' 11" (15.8m)	62' 9" (19.1m)	58' 5" (17.8m)	
55' 10" (17.0m)	55' 10" (17.0m)	55' 10" (17.0m)	67' 6" (20.6m)	62' 10" (19.2m)	
59' 9" (18.2m)	59' 9" (18.2m)	59' 9" (18.2m)	72' 3" (22.0m)	67' 3" (20.5m)	
63' 8" (19.4m)	63' 8" (19.4m)	63' 8" (19.4m)	77' (23.5m)	71' 8" (21.8m)	
67' 7" (20.6m)	67' 7" (20.6m)	67' 7" (20.6m)	81' 9" (24.9m)	76' 1" (23.2m)	
71' 6" (21.8m)	71' 6" (21.8m)	71' 6" (21.8m)	86' 6" (26.4m)	80' 6" (24.5m)	
75' 5" (22.8m)	75' 5" (22.8m)	75' 5" (23.0m)	91' 3" (27.7m)	84' 11" (25.6m)	
79' 4" (24.2m)	79' 4" (24.2m)	79' 4" (24.2m)	96' (29.3m)	89' 4" (27.2m)	
13' 7" (4.1m)	15' 3" (4.6m)	16' 3" (5.0m)	15' 3" (4.6m)	16' 3" (5.0m)	
7' 2" (2.2m)	7' 10" (2.4m)	7' 10" (2.4m)	7' 10" (2.4m)	7' 10" (2.4m)	
3' 1-1/2" (1.0m)	3' 7-1/2" (1.1m)	4' 1-1/2" (1.3m)	3' 7-1/2" (1.1m)	4' 1-1/2" (1.3m)	
13' (4.0m)	13' (4.0m)	13' (4.0m)	13' (4.0m)	13' (4.0m)	
15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	
3' 11" (1.2m)	3' 11" (1.2m)	3' 11" (1.2m)	4' 9" (1.4m)	4' 5" (1.3m)	
3' 11" (1.2m)	3' 11" (1.2m)	3' 11" (1.2m)	4' 9" (1.4m)	4' 5" (1.3m)	

OTHER AVAILABLE HEIGHTS

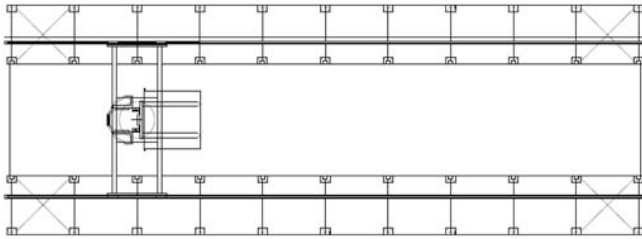
12' 9-5/16"	12' 5-7/16"	12' 1-9/16"	11' 9-11/16"	11' 5-13/16"	11' 1-15/16"	10' 10-1/16"	10' 6-3/16"	10' 2-5/16"	18' 3-3/16"
3.9M	3.8M	3.7M	3.6M	3.5M	3.4M	3.3M	3.2M	3.1M	5.6M
125	121	117	113	109	105	101	097	094	190
7	7	6	6	6	6	6	6	5	12
6	6	5	5	5	5	5	4	4	9
5	5	4	4	4	4	4	4	3	8
4	4	4	4	3	3	3	3	3	6
3	3	3	3	3	3	3	3	2	6
3	3	3	3	3	2	2	2	2	5
3	3	2	2	-2	2	2	2	2	4

52" x 48"	60" x 42"	60" x 48"	72" x 42"	72" x 48"
1.3M x 1.2M	1.5M x 1.1M	1.5M x 1.2M	1.8M x 1.1M	1.8M x 1.2M
20' (6.1m)	22' 8" (6.9m)	22' 8" (6.9m)	26' 8" (8.1m)	26' 8" (8.1m)
24' 9" (7.5m)	28' 1" (8.6m)	28' 1" (8.6m)	33' 1" (10.1m)	33' 1" (10.1m)
29' 6" (9.0m)	33' 6" (10.2m)	33' 6" 10.2m)	39' 6" (12.0m)	39' 6" (12.0m)
34' 3" (10.4m)	38' 11" (11.9m)	38' 11" (11.9m)	45' 11" (14.0m)	45' 11" (14.0m)
39' (11.9m)	44' 4" (13.5m)	44' 4" (13.5m)	52' 4" (16.0m)	52' 4" (16.0m)
43' 9" (13.3m)	49' 9" (15.2m)	49' 9" (15.2m)	58' 9" (17.9m)	58' 9" (17.9m)
48' 6" (14.8m)	55' 2" (16.8m)	55' 2" (16.8m)	65' 2" (19.9m)	65' 2" (19.9m)
53' 3" (16.2m)	60' 7" (18.5m)	60' 7" (18.5m)	71' 7" (21.8m)	71' 7" (21.8m)
58' (17.7m)	66' (20.1m)	66' (20.1m)	78' (23.8m)	78' (23.8m)
62' 9" (19.1m)	71' 5" (21.8m)	71' 5" (21.8m)	84' 5" (25.7m)	84' 5" (25.7m)
67' 6" (20.6m)	76' 10" (23.4m)	76' 10" (23.4m)	90' 10" (27.7m)	90' 10" (27.7m)
72' 3" (22.0m)	82' 3" (25.1m)	82' 3" (25.1m)	97' 3" (29.6m)	97' 3" (29.6m)
77' (23.5m)	87' 8" (26.7m)	87' 8" (26.7m)	103' 8" (31.6m)	103' 8" (31.6m)
81' 9" (24.9m)	93' 1" (28.4m)	93' 1" (28.4m)	110' 1" (33.6m)	110' 1" (33.6m)
86' 6" (26.4m)	98' 6" (30.0m)	98' 6" (30.0m)	116' 6" (35.5m)	116' 6" (35.5m)
91' 3" (27.7m)	103' 11" (31.4m)	103' 11" (31.4m)	122' 11" (37.2m)	122' 11" (37.2m)
96'(29.3m)	109' 4" (33.3m)	109' 4" (33.3m)	129' 4" (39.4m)	129' 4" (39.4m)
16' 3" (5.0m)	16' 3" (5.0m)	16' 3" (5.0m)	16' 3" (5.0m)	16' 11" (5.0m)
7' 10" (2.4m)	7' 10" (2.4m)	8' 6" (2.4m)	7' 10" (2.4m)	8' 6" (2.4m)
4' 1-1/2" (1.3m)	3' 7-1/2" (1.1m)	4' 1-1/2" (1.3m)	3' 7-1/2" (1.1m)	4' 1-1/2" (1.3m)
13' (4.0m)	13' (4.0m)	13' (4.0m)	13' (4.0m)	13' (4.0m)
15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)	15' 4-5/16" (4.7m)
4' 9" (1.4m)	5' 5" (1.7m)	5' 5" (1.7m)	6' 5" (2.0m)	6' 5" (2.0m)
4' 9" (1.4m)	5' 5" (1.7m)	5' 5" (1.7m)	6' 5" (2.0m)	6' 5" (2.0m)

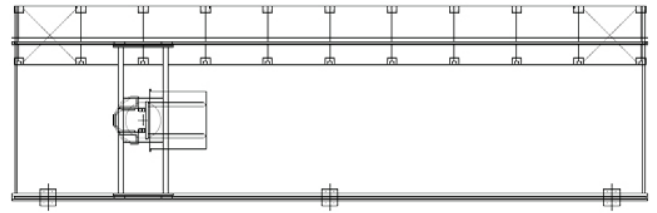




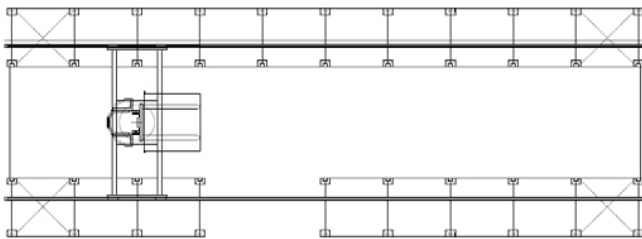
**THE STAK SYSTEM® IS AVAILABLE IN A VARIETY OF CONFIGURATIONS TO SUIT YOUR SPECIFIC NEEDS.**



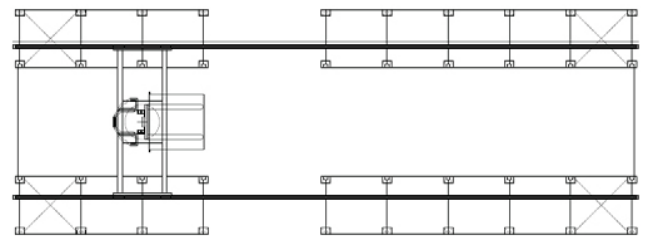
Standard STAK System



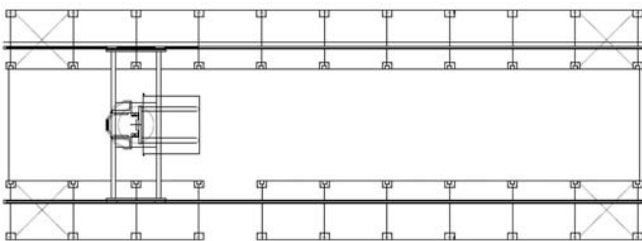
Single-sided



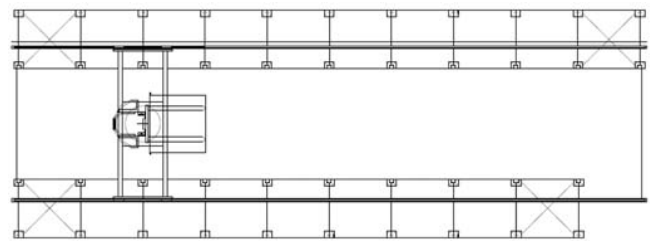
Standard STAK System with Single mid-aisle access



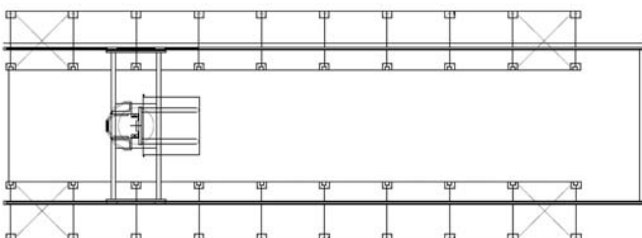
Standard STAK System with dual access aisle



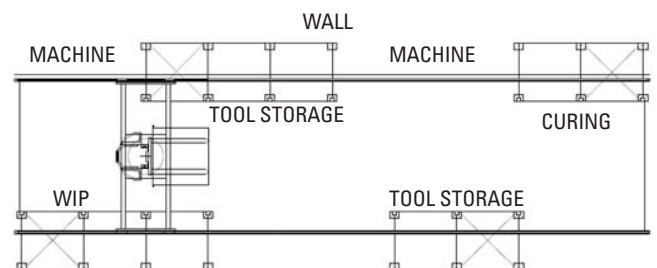
Standard Stak System with walk-through only access



Standard Stak System with half cantilever



Standard Stak System with full cantilever



Flexible solutions to meet unique needs. Above layout is just an example of the configurations we can design to solve your tough problems.



# STAK System®: Specifications

THE FOLLOWING SPECIFICATIONS OUTLINE MAIN STAK SYSTEM® FEATURES ALONG WITH IMPORTANT USER BENEFITS. (ALL SPECIFICATIONS ARE 2K STAK SYSTEM SPECS. IF YOU WOULD LIKE 4K STAK SYSTEM SPECS, PLEASE CALL 800-523-9462 TO SPEAK WITH A STANLEY VIDMAR STORAGE SALES ENGINEER.)

ITEM	SPECIFICATION	USER BENEFIT
<b>SYSTEM:</b>		
Overall Height:	15' 4-5/16" (4.7m)	Fits into most manufacturing areas.
<b>STORAGE RACK:</b>		
Maximum Design Capacity:	25,000 lbs. per individual storage section; 50,000 lbs. per bay (seismic zones one and two) 12,500 lbs. per industrial storage section. 25,000 lbs. per bay (seismic zones three and four). 13' (4m) long one-piece.	Excess capacity.
Columns:	13' (4m) long one-piece.	No butt welds; accurate, straight columns.
Front:	Heavy-duty roll-formed 12-gauge (.1046) double-wall construction. 2-1/2" (63.5mm) (front to back) x 3-1/2" (88.9mm) (left to right); 5-1/2" (139.7mm) x 8" (203.2mm) bearing pad producing 44 sq. in. (1.1 sq. m) floor bearing area.	Large floor-bearing surface.
Rear:	Formed 11-gauge (.1196). 2-5/8" (66.7mm) (front to back) x 7-7/8" (200mm) (left to right); 5-1/2" (139.7mm) x 8" (203.2mm) bearing pad producing 44 sq. in. (1.1 sq. m) floor bearing area. Anchoring: Two 1/2" (12.7mm) dia. expansion anchors per bearing pad.	Large floor-bearing surface.  Twice the anchoring of conventional racks.
Leveling:	One 1/2" (12.7mm) dia. hex-head machine screw with 1-5/16" (33.3mm) adjustment.	Faster, more accurate installation.
Pallet Retainer Notches:	37 total, spaced 3-7/8" (98.4mm) apart. (storage density).	Adjustability for better cube utilization.
Pallet Engagement:	Front Column: Positive engagement in 1/2" (12.7mm) extra-deep hook.	Assures safe engagement of pallets into the system at all load-bearing contact points.
Column Height:	Rear Column: Extra-large safety rest: 13' (4m).	Maximum storage-to-space ratio.
Column Depth:		
30" (762mm) System:	31-1/2" (800.1mm) (front to back)	
36" (914.4mm) System:	37-1/2" (952.5mm) (front to back)	
42" (1.1m) System:	43-1/2" (1.1m) (front to back)	
48" (1.2m) System:	49-1/2" (1.3m) (front to back)	
Opening Between:	Front Columns	Rear Columns
26-1/2" (673.1mm)-Wide Pallet	28" (711.2mm) (left to right)	23-5/8" (600.1mm) (left to right)
36" (914.4mm)-Wide Pallet	37-1/2" (952.5mm) (left to right)	33-1/8" (841.4mm) (left to right)
42" (1.1m)-Wide Pallet	43-1/2" (1.1m) (left to right)	39-1/8" (993.8mm) (left to right)
48" (1.2m)-Wide Pallet	49-1/2" (1.3m) (left to right)	45-1/8" (1.1m) (left to right)
52" (1.3m)-Wide Pallet	53-1/2" (1.4m) (left to right)	49-1/8" (1.2m) (left to right)
Columns Center Line to Center Line:		
26-1/2" (673.1mm)-Wide Pallet	31-1/2" (800.1mm)	
36" (914.4mm)-Wide Pallet	41" (1m)	
42" (1.1m)-Wide Pallet	41" (1m)	
48" (1.2m)-Wide Pallet	41" (1m)	
52" (1.3m)-Wide Pallet	41" (1m)	
<b>BRIDGE:</b>		
Type:	Top running. 2,000 lb. pallet load.	No floor contact. Eliminates expensive special floor surfacing and maintenance.  Optimum capacity for most typical factory loads moved manually.
Construction:	Welded construction; two 6" (152.4mm) x 12 lbs./ft. wide flange beams, two 6" (152.4mm)x 2" (50.8mm) rectangular tube end trucks.  Wheels: Four 9" (228.6mm) dia. double-flange wheels, roller-bearing pressure grease fitting.	Provides minimum friction, maximum load.
Bridge Derailment Protection:	Rail sweep mounted in front of each wheel.	Sweeps foreign objects off rails.
<b>TROLLEY:</b>		
Type:	Contained.	
Capacity:	2,000 lb. pallet load.	
Construction:	Steel plate with four integral flanges.	Plate construction ensures flatness, easy turning for turntable.
Wheels:	Four 5" (127mm) dia. wheels, ball bearing type with permanent lubrication.	Trolley wheels ride within bridge. No chance of derailment as with other top-riding trolleys.
Trolley Stabilizing Guides:	Four 1-1/4" (31.8mm) dia. bearings.	Aligns trolley within bridge. Assures nearly effortless operation.

## ITEM SPECIFICATION USER BENEFIT

### MAST:

Capacity:	2,000 lb. pallet load.	
Construction:	Welded construction; two 6" (152.4mm) channels, separated with ladder cross members;	Maximum strength, minimum torsion and deflection each channel contains a steel guide bar welded inside channel.
Turntable:	360° rotary bearing with pressure grease fitting.	Continuous 360° rotation.
Rollers:	Four 2" (50.8mm) dia. crowned cam rollers with pressure grease fittings.	Ride on inboard high-strength steel guide bars to distribute load.
Stabilizing:	Four 1-1/4" (31.8mm) dia. bearings.	Side-to-side stability; rides inboard on guide bar.
Free Fall Prevention Device:	Positive stop/lock mechanism.	Prevents free fall in case of chain break.
Operator Visibility:	Plexiglass viewing port (16" [406.4mm] x 14-1/2" [383.3mm]).	Clear, unobstructed visibility.
Mast Operating Handles:	Handles mounted outboard of mast unit.	Ensures ease of operation in rotating masting unit.
Protective Canopy:	Enclosed steel angle frame with 45° corners bolted to mast.	Reduced turning radius, no right-angle corners to interfere with pallets to rear of operator.
Mast/Trolley Stop:	Steel angle frame with 45° corners bolted to mast	Added safety feature for operator protection.

### RAIL:

Size:	20 lb. A.S.C.E	Smooth riding, accurate runway.
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### FORKS:

Mounting:	Shaft type. Adjustable for pitch and width settings.	No floor contact. Eliminates expensive special floor surfacing and maintenance.
Capacity:	2,000 lbs.	Optimum capacity for most typical factory loads moved manually.
Size: 30" (762mm) System:	30" (762mm) long, 4" (101.6mm) wide, 1-1/4" (31.8mm) deep.	
36" (914.4mm) System:	36" (914.4mm) long, 4" (101.6mm) wide, 1-1/4" (31.8mm) deep.	
42" (1.1m) System:	42" (1.1m) long, 4" (101.6mm) wide, 1-1/4" (31.8mm) deep.	
48" (1.2m) System:	48" (1.2m) long, 4" (101.6mm) wide, 1-1/4" (31.8mm) deep.	

### ELECTRICAL:

Hoist:	2,000 lb. capacity. 230/460V, 3-phase, 60Hz. <b>(460V shipped unless otherwise specified).</b> 4.8-amp operating load at 208-230V, 2.5-amp operating load at 460V. Field-changeable voltage. 208V, 3-phase, 60Hz, 4.8-amp operating load.	AC-powered. Reduces energy costs compared to DC battery-powered or I.C. forklifts. Optimum speed for ease of operation.
Electrical Characteristics:	Single Speed, 16 ft./min., 1HP.	
Power Bars:	4-bar insulated conductor system: 3 power, 1 ground, sliding pickup (replaceable shoes).	Continuous trouble-free power supply.
Controls:	Up/down push-button; 115V control circuit; on/off key switch with key removable in "off" position only.	Easy operator controls. Security prevents unauthorized use.
Lights:	Two 90-watt reflector flood lamps controlled by on/off switch; 115V light circuit.	Two lights for illumination only when area is being used (saves energy).
Disconnect Box:	30-amp.	

### PALLETS, FLAT:

Size:	26-1/2" (673.1mm) (left to right) x 30" (762mm) (front to back) 36" (914.4mm) (left to right) x 30" (762mm) (front to back) 36" (914.4mm) (left to right) x 36" (914.4mm) (front to back) 42" (1.1m) (left to right) x 36" (914.4mm) (front to back) 42" (1.1m) (left to right) x 42" (1.1m) (front to back) 48" (1.2m) (left to right) x 48" (1.2m) (front to back) 52" (1.3m) (left to right) x 42" (1.1m) (front to back) 52" (1.3m) (left to right) x 48" (1.2m) (front to back) 72" (1.83m) (left to right) x 48" (1.2m) (front to back)	Optimal sizes for capital tooling.  Optimal sizes for maintenance items.  Optimal sizes for work-in-process and finished stores.
Capacity:	2,000 lbs. (uniformly distributed load).	
Height:	4-13/16" (122.2mm)	Optimal height for hand truck or pallet jack pickup.
Fork Guides:	Two-way entry with fork guides on front.	Positive engagement prevents accidental tipping.
Add-On Tub Kits:	1-1/4" (31.8mm)-high sidewalls Maximum flexibility in adapting pallets to 4-7/8" (123.8mm)-high sidewalls changing needs. 8-3/4" (222.3mm)-high sidewalls 12-5/8" (320.7mm)-high sidewalls	
Partitions and Dividers:	4-7/8" (123.8mm) high 8-3/4" (222.3mm) high 12-5/8" (320.7mm) high	
Pallet Structural Support:	V-section supports, left to right, right angles to the forks.	Distributes weight over surface of pallets to assure balanced load.
Pallet Resting Ears:	180° self-centering design.	Ears self-centering on racking notches.



## 4K STAK SYSTEM®

- The ultimate single-operator storage solution, 4K STAK System® is designed for the storage of larger and heavier items (up to 4,000 lbs.).
- From one convenient operator's position, 4K STAK System® keeps hard-to-handle items accessible and organized.
- Same main elements as 2K STAK System®, with all directional movements fully motorized.

**4K Operator's Cab:** Ergonomically designed, operator's cab has all controls on board and provides clear sight lines. Safety is further enhanced by platform control pedal, protective canopy, hand guards, and cab back.

**4K Controls:** Two types of control stations are available for operation, a cage or a walk-behind with detachable controls. Cage pendant controls direct movement on all four axes and are mounted on the mast. Walk-behind allows operator to stand off to the side to increase visibility. For safety, control pendant has a removable key switch and e-stop emergency button.



4K STAK System in use



**4K Pallet And Hook**  
Design creates additional load support.



4K Operator's Cab



## Hazmat STAK System®

Designed specifically for the storage, staging, and retrieval of 55-gallon hazardous material drums, the HazMat STAK System® gets your drums off the floor and into their own dedicated storage system – without having to use a forklift.

Every detail of the **HazMat STAK System®** is designed for safety and ergonomic operation, from its pneumatic operation to its bright yellow color. Drums are stored one deep, so they're always visible and potential problems can be easily detected.

The **HazMat STAK System®** can efficiently manage loads up to 2,000 lbs. with pallets specifically designed to allow sprinkler system water to flow through the pallets (must specify flow-through pallet – see page 8). All **HazMat STAK System®** storage units carry factory mutual system approval.

For fast access to emergency equipment, the system includes a Personal Protective Equipment Cabinet fully stocked with: a spill kit containing puncture repair putty and absorbent mats, socks, and pillows capable of cleaning up a 60-gallon spill, 20 pairs of shield gloves, 25 pairs of disposable boots, 12 pairs of goggles, and an Emergency Response handbook.

**Universal Drum Handler** — is available with your HazMat Stak system instead of a Standard Drum Handler, allowing you to handle both steel and fiber drums with a special double-clamping mechanism. Easily removable for standard fork handling.



## FLEXIBLE. HEAVY-DUTY. EFFICIENT.

A completely flexible heavy-duty storage solution, the ARS Adjustable Racking System allows super-efficient storage of items of varying size and weight. Like the STAK System®, the ARS is based on a system of removable, positionable pallets, but does not include the STAK System's mast and bridge assembly. ARS pallets are moved by means of fork trucks.

The ARS Adjustable Racking System helps maximize storage density by minimizing the vertical space requirements of each stored pallet and its contents.

- Removable, fully adjustable pallets that can change and grow with your storage requirements.
- Racking is available up to 16' high for maximum vertical storage space.
- Systems can be broken up to fit around unavoidable building structures like columns.
- Array of convenient storage accessories is available (same accessories as STAK System®).
- Consult factory for capacities above 4,000 lbs., extended height systems, or oversized pallets.



For use with existing fork lift.



### ADJUSTABLE RACKING SYSTEM FEATURES

#### Columns and Pallets

Adjustable racking system roll-formed columns provide double-strength rest hooks. Pallets are reinforced with double-layer steel surfaces.

#### Pallet Fork Guides

Adjustable racking system pallet fork guides insure proper engagement and provide additional structural support. Opposing cross members provide total surface support stability.

#### Pallet Racking System

Heavy-duty columns provide 25,000-lb. capacity per storage section (seismic zones 1 and 2). Double-strength rest hooks on 7¾" centers allow maximum-density pallet positions.





# HEIGHT / PALLET SELECTION GUIDE

To determine the height of the adjustable racking system that will fit your building and the number of pallets per section based on load heights, follow these steps:

- 1. Measure from the floor to the lowest overhead obstruction. To account for variations in the floor level, check this measurement at several locations within the area of the storage system.
- 2. The standard rack height is 152" (12' 8"). If your ceiling will not accept the standard height, select the height that will clear all obstructions from the other available heights below.
- 3. Match the height you selected for your rack height with the average pallet load height in the table below. The intersection will determine the number of pallets per section. Multiply this number by the number of sections of racking to obtain the total number of pallets for your storage system.



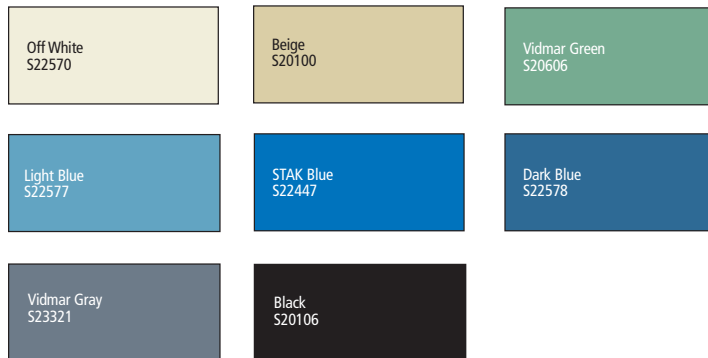
## HEIGHT/PALLET SELECTION GUIDE

PALLETLOAD HT	OTHER AVAILABLE RACK HEIGHTS					STD RACK HT	OTHER AVAILABLE RACK HEIGHTS									
	190"	183"	175"	167"	159"	153"	144"	136"	128"	121"	113"	105"	97"	90"	82"	
6"	11	11	10	10	9	9	8	8	7	7	6	6	5	5	4	
10"	8	7	7	7	6	6	6	5	5	5	4	4	4	3	3	
14"	7	7	7	6	6	6	5	5	5	4	4	4	3	3	3	
18"	6	5	5	5	5	4	4	4	3	3	3	3	2	2	2	
22"	5	5	5	5	4	4	4	4	3	3	3	3	2	2	2	
26"	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	
30"	4	4	4	4	3	3	3	3	3	2	2	2	2	2	1	
	PALLET PER SECTION															

## STAK SYSTEM® & ARS COLOR CHOICES:

Mix and match Vidmar's eight standard colors to create a STAK System® that matches your environment.

### RACKS AND PALLETS



### BRIDGE AND MAST ASSEMBLY



Contact your STAK System® representative for more details, specifications, and warranty.

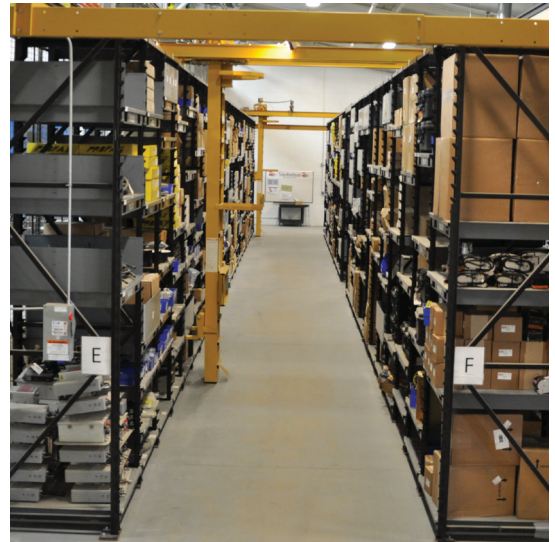


# STAK System®: The Vertical Storage Solution

## DYNAMIC PALLET-BASED STORAGE AND HANDLING SYSTEM

**Store or retrieve loads more quickly—regardless of size, shape, or weight!**

- Space Savings—Squeeze wasted air out of your vertical storage and make use of every cubic foot! Free up floor space for other uses
- Value—Maximize the use of your cubic space, and get more productivity from your entire facility
- Manpower Efficiency—Retrieve items weighing up to 2 tons with just one person
- Ergonomic Safety—Lifting and handling device is engineered for maximum ease of use
- Ease of Retrieval and Inventory Control—Stored items are easily located, positioned and repositioned
- Precise Load Positioning—Pallets are positioned in the STAK System® at vertical increments of 4", so items can be stored exactly where you want them, on the fly
- Reduced Use of Fork Trucks—Fewer fork trucks means greater savings, greater safety on your shop floor and less wear and tear to floor
- Operation of the STAK System lifting and handling device doesn't require certification
- Product Protection and Security—Store large items on safe, protected pallets, off the floor.
- Ideal for work-in-process, maintenance, tooling and fixturing, and supply and distribution
- Available as 2K STAK System (2,000-lb. capacity), 4K STAK System (4,000-lb. capacity), or HazMat STAK System (2,000-lb. capacity). Consult factory for capacities above 4,000 lbs., extended height systems, or oversized pallets
- The STAK System is designed to be easily expanded incrementally as your storage needs grow
- With a long list of available accessories, your STAK System can be designed to your facility's exact requirements







**Smart Versatile Storage.**

[www.vidmar.com](http://www.vidmar.com)

11 Grammes Road, Allentown, PA 18103

USA/Canada: 800-523-9462 • Mexico: 001-800-590-5761

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ENVIRONMENTAL MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 14001:2004

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
OHSAS 18001

QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001:2008

MKT-2536

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