Pallet Shuttle™ Design & Engineering Request Form

Sales Office: _____
Date Submitted: _____ Salesperson: _____
Quote Due Date: _____ Designer: _____

Customer Name: _____

Customer Address: _____
_____
_____
_____

Site Location: _____

***Sales Note**: This **Pallet Shuttle™** system is designed as a high density storage system that allows you to store multiple pallets in a deep lane configuration. It is much more cost effective when the correct application is applied.*

Pallet Shuttle™ is the right application for Customer's who;

- *have a large quantity of pallets of the same product*
- *need to store a large number of pallets in a small area*
- *have a high volume of freight being shipped and/or received daily*
- *have a manufacturing environment where product can be stored from one end of the system and shipping from the other end*
- *want to maximize their storage facility*

Equipment Specifications:

Please provide the following information of the Forklift equipment being used for the System;
Make - _____ (i.e. Yale)
Model - _____
Type - _____ (i.e. Electric Dock Truck)
Does Forklift come with side shift? □Yes □ No
What is the clear opening distance between the forks - _____
What is the out to out of distance of the forks - _____
What is the maximum lift of the forks - _____
What is the maximum lift capacity at the maximum lifting height - _____

Pallet & Load Specifications:

Pallets being used - _____" Face x _____" Deep (CPC / CHEP) Pallets

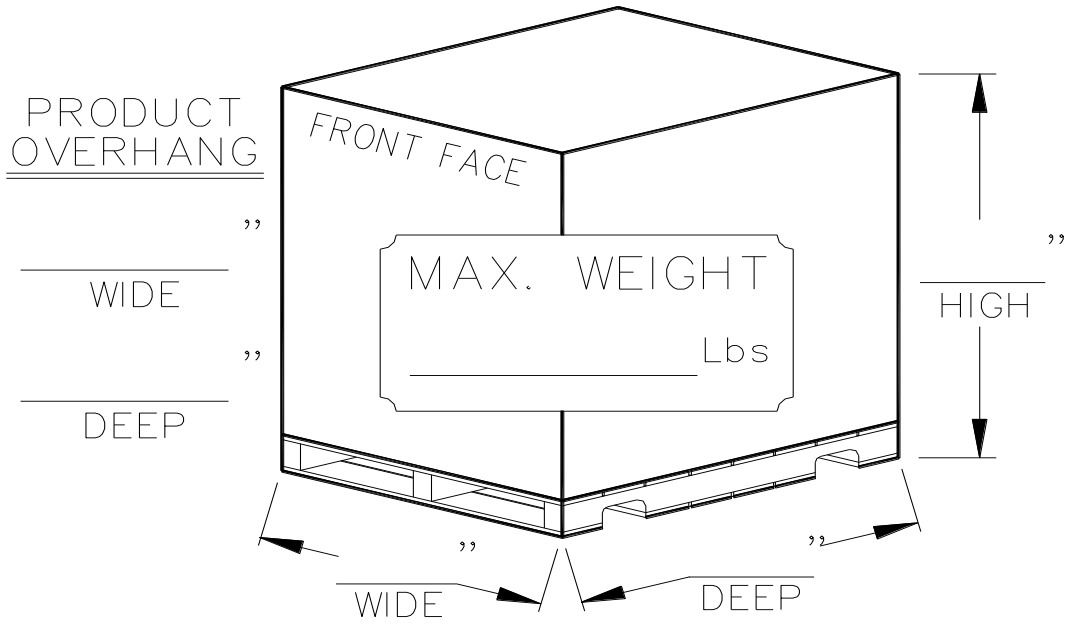
Other Type of Pallet; Please specify _____ (i.e. IGPS Plastic)

Loads size being stored - _____" Face x ___" Deep x _____" High (Including Pallet)

Are pallets Single-Stacked or Double Stacked? _____ (3,000 lbs. Max.)
Are pallets stretch wrapped: □ Yes □ No

Maximum pallet weight being stored - _____ lbs.

Total number of pallets being stored - _____ Approx.
Total number of Sku's or Product Types - _____
Total number of inbound pallets per day/shift - _____/_____
Total number of out bound pallets per day/shift - _____/_____
Number of operating shifts per day - _____



Important Note: Pallets must be in new or good condition with all bottom stringer boards present and not damaged. Pallets in poor condition, such as old or damaged pallets with missing or broken stringer boards may cause the **Pallet Shuttle™** to malfunction. Also, pallets with more than 3/4" deflection will damage the Shuttle from impacting the underside of the pallet and will cause the Cart to get stuck in the lane. Testing may be required to determine deflection of the pallet under specified loads and an inspection of the pallets should be performed. It will be the customer's responsibility to replace or repair damaged pallets prior to use.

Pallet Shuttle™ System Specifications:

Area 1: ___ Blocks x ___ Bays Wide x ___ Storage Levels High (Please provide dimensions for storage level heights) x ___ Pallets Deep

Area 2: ___ Blocks x ___ Bays Wide x ___ Storage Levels High (Please provide dimensions for storage level heights) x ___ Pallets Deep

Area 3: ___ Blocks x ___ Bays Wide x ___ Storage Levels High (Please provide dimensions for storage level heights) x ___ Pallets Deep

How many **Pallet Shuttle™** Carts requested - _____

What environment is the System going into? (Ambient / Freezer / Cooler)
If "Freezer", what is the temperature rating - _____ deg. (Celsius / Fahrenheit)

What is the "Clear Ceiling Height" where the System is being installed - _____
Are there any obstructions? □ Yes □ No
If "Yes" please specify or provide details - _____

Floor Specifications:
Floor - □ Slab-On-Grade □ Elevated Slab
Reinforcement - □ Wire Mesh □ Steel Fiber □ Re-Bar □ Tendons
Slab Thickness - ____"
Concrete Strength - ____"

Are Post Loads to be provided? □Yes □ No
Note: It will be the customer's responsibility to acquire approval for both the baseplate specifications and slab on grade by a certified local Professional Engineer to suit the entire Pallet Shuttle™ system.

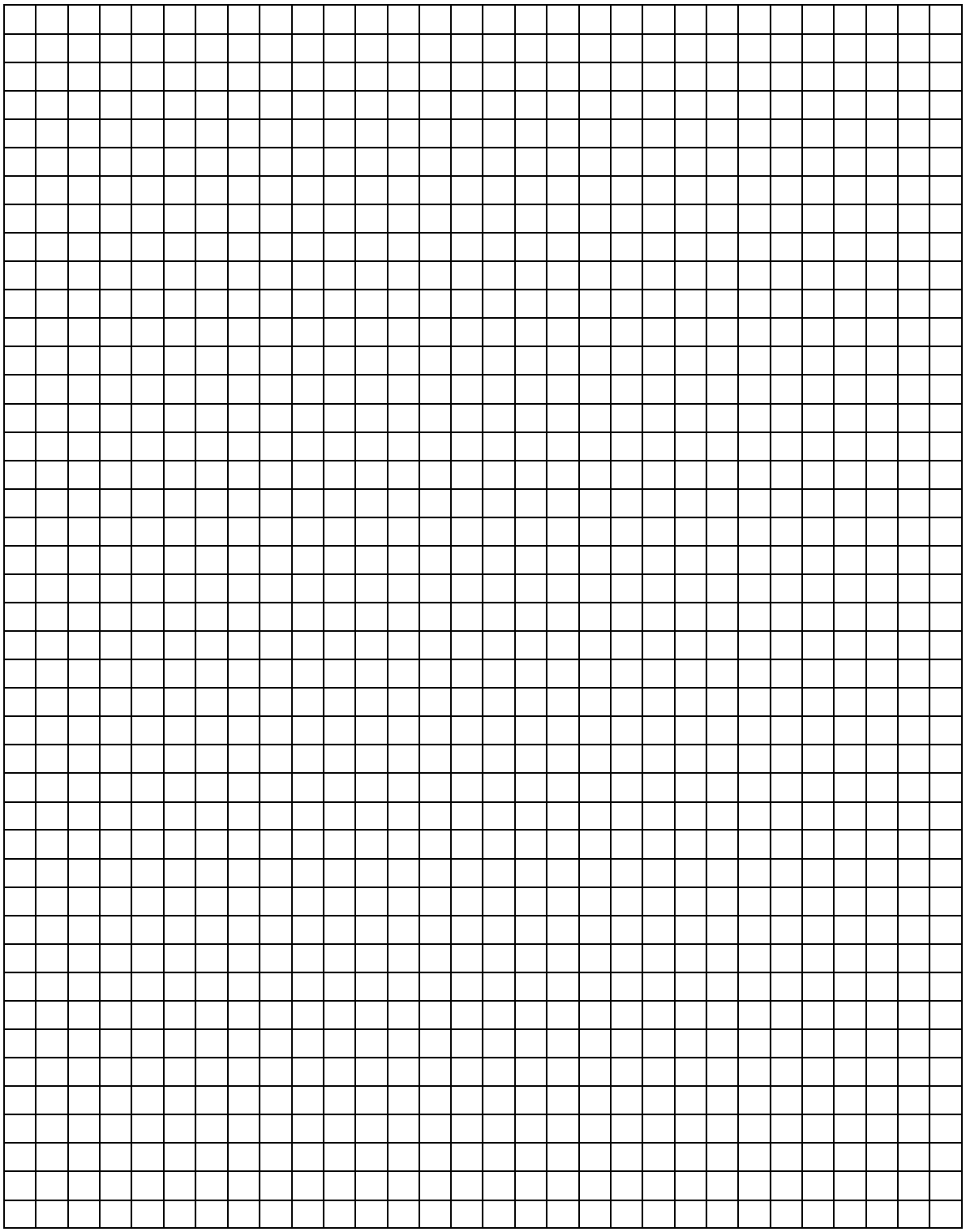
Are In-Rack Sprinklers being installed? □ Yes □ No
If "Yes" storage level heights to be adjusted to accommodate sprinklers

Are Stamped drawings required? □ Yes □ No

Are Calculations to be submitted? □ Yes □ No

Please specify any special requests:
_____
_____
_____
_____
_____
_____

Please provide detailed building drawings of storage area (electronic files preferred);



Pallet Shuttle™ System Engineering Notes:

1. Erection of the rack storage system will be by a Hannibal certified professional rack installation company that is familiar with the design and assembly of the shown system.
2. Customer shall verify the concrete slab-on-grade and sub-grade is adequate to support the rack post loads given the effective area of the rack frame base plates or bearing plates subject to final engineering.
3. Customer to ensure storage at the ground level does not prohibit access to any exits or main aisles as required by applicable local fire and building codes.
4. In-rack sprinklers, if required, are to be designed and installed by others in conformance with local regulations.
5. Where applicable, additional lighting, modifications to existing lighting, emergency lighting, and exit signs are to be provided and installed by others in conformance with local regulations.
6. Storage rack capacities are based on racks in new condition and free of any damage. Damaged storage racks must be put out of service and repaired or replaced.
7. Rack frame allowable load capacity is based on beam and rail locations and beam/rail uniformly distributed loading as shown in the elevations. Customer reconfiguration or rearrangement of the structure is not allowed without prior approval from the manufacturer's professional engineer.

Please complete this review of your clients operation with as much detail as possible and don't hesitate to add in items that may be a part of the overall equation. Then fax or e-mail back the form to our corporate offices.