

Application Data Form - Cart and Cart Positioning

Please fill in and send to:

Herkules Equipment Corporation
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Walled Lake, MI 48390-1662
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Alternatively, you can simply call us at 800-444-4351 and a technical sales person will fill out the form for you and answer any questions.

1. Contact:

Company name: _____	Date: _____
Contact name: _____	Web site: _____
Title: _____	Email: _____
Address: _____	Phone: _____
City, State _____	Fax: _____
Zip code: _____	

2. Application Description (please attach additional sketch)

New application: _____ Yes: _____ No: _____

Attach file: _____

3. Sequence of Operation Description (please attach document or sketch) (for examples please see the end of this form)

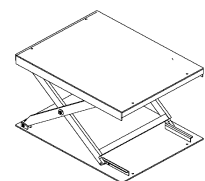
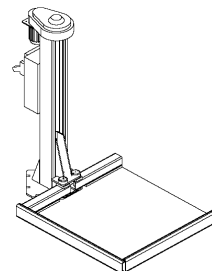
Attach file: _____

What is the position of the lift when loaded: _____

How many positions will the system positioner be interfaced at (example: 2 qty full up and full down): _____

4. System

Lift device: _____	Air: _____	Electric: _____	Hydraulic: _____
Product type: _____	Lift: _____	Lift & rotate: _____	Lift & tilt: _____ Tilt: _____
Product section: _____	General Industry = GI: _____	Heavy Duty = HD: _____	Super Heavy Duty = SD: _____
Capacity: _____	Rated: _____	Actual: _____	
Capacity - Is the system at maximum load when lift is at: _____		Full down: _____	Full up: _____
Center of gravity location: _____		_____	
Will the lift be center loaded: _____	Yes: _____	No: _____	
Will the lift be pit mounted: _____	Yes: _____	No: _____	
Duty cycle: _____	Cycles/hour: _____	Hours/day: _____	Days/week: _____ Weeks/year: _____
Cycle time (seconds): _____	Time up: _____	Time down: _____	
Rack / dunnage size: _____	Length: _____	Width: _____	Height: _____
Lowered height: _____	_____		
Travel: _____	_____		
Raised height: _____	_____		



5. Tilt

Tilt angle (degrees): _____

Tilt pivot side: _____

Tilt lift mounted: _____ Yes: _____ No: _____

Tilt floor mounted: _____ Yes: _____ No: _____

Tilt dual dampening system (for air systems only): _____ Yes: _____ No: _____



6. Rotate

Rotate (High-Grade Bearing 14" (356mm)): _____ Yes: _____ No: _____

Rotate (High-Grade Bearing 20" (508mm)): _____ Yes: _____ No: _____

Rotate bearing mount: _____ Top of lift: _____ Bottom of lift: _____

Rotate lift mounted: _____ Yes: _____ No: _____

Rotate floor mounted: _____ Yes: _____ No: _____

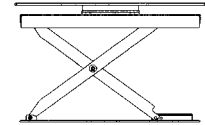
Push / pull force (pounds or Kg): _____ Push: _____ Pull: _____

Air brake: _____ Yes: _____ No: _____

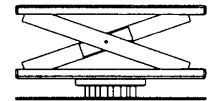
Detents: _____ 90 degrees: _____ 180 degrees: _____

Manual release lock: _____ Yes: _____ No: _____

Brake-on indicator _____ Yes: _____ No: _____



Bearing mounted on top of lift



Bearing mounted on bottom of lift

7. Structural

Platform dimensions: _____ Length: _____ Width: _____

Platform overhangs skirt: _____ Yes: _____ No: _____

Footprint dimensions (w/out skirt): _____ Length: _____ Width: _____

Footprint dimensions (with skirt): _____ Length: _____ Width: _____

Floor mount tabs: _____ Internal: _____ External: _____

Riser: _____ Height: _____

Retaining corners: _____ 8" (203mm) long x 1/2" (13mm) thick x 4" (102mm) tall _____ Quantity: _____

Retaining plate (full face): _____ 3/8" (9.5mm) thick: _____ 1/2" (13mm) thick: _____ Height: _____

Retaining requirements (please describe): _____

8. Material and Finish

Material: _____ High strength steel: _____ Stainless steel: _____

Color: _____ Color code number: _____

Epoxy food-grade paint: _____ Yes: _____ No: _____

Powder coat paint: _____ Yes: _____ No: _____

Special Material and Finish requirements (please describe): _____

9. Safety

Safety bellows vinyl black & yellow: _____ Yes: _____ No: _____

Velcro-on: _____ Yes: _____ No: _____

Bolt-on: _____ Yes: _____ No: _____

Fold width: _____ 1-1/2" (38mm): _____ 2" (51mm): _____ 2.5" (64mm): _____

Split corner for ease replacement: _____ Yes: _____ No: _____

Safety bellows fire retardant: _____ Yes: _____ No: _____

Steel panels: _____ Yes: _____ No: _____

Steel beveled toe guards welded to platform: _____ Yes: _____ No: _____

Fencing	Yes:	No:
Fully redundant safety locking system:	Yes:	No:
Mechanical locking system - arms	Yes:	No:
Mechanical locking system - ratchet	Yes:	No:



Example of Fencing

10. Portability

Portability:	Manual:	Powered:
Portability - air bearing:	Yes:	No:
Portability - casters system:	Yes:	No:
Portability - dolly system:	Yes:	No:
Portability - fork pockets:	Yes:	No:
Portability - rail system:	Yes:	No:

11. Control

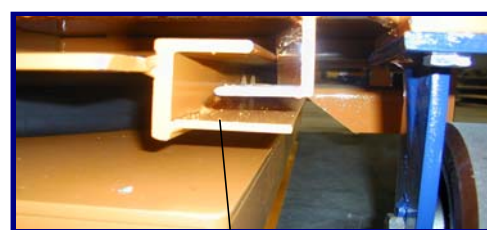
Hand pendant control:	Yes:	No:	
Hand pedestal control:	Yes:	No:	
Foot control:	Yes:	No:	
Detent down control:	Yes:	No:	
Non-Pilot valve internal exhaust:	Yes:	No:	
Pilot valve internal exhaust (air or electric):	Yes:	No:	
High flow valve package:	Yes:	No:	
Limit switch stops:	Yes:	No:	
Limit switch interface with gate or fencing:	Yes:	No:	
Automation control box:	Yes:	No:	
Emergency stop (E-stop):	Yes:	No:	
Filter / regulator:	Yes:	No:	
Lock out safety valve:	Yes:	No:	
Inline check valve:	Yes:	No:	
Quick disconnect fittings:	Yes:	No:	
Hard plumbing of system:	Yes:	No:	
Power controls requirements:	12V:	24V:	
Power system requirements:	110V:	220V:	480V:
Length of hose or cable:	Standard 12 ft (3658mm):	Other: _____	
Hose management - Catrac:	Yes:	No:	
Hose protection sleeves:	Yes:	No:	

12. Cart Interface with Lift

Note: Clearances between the cart and the lift should be a minimum of 1/2" (13mm) with 1" (25mm) preferred for dimensions from the platform of the lift and the bottom of the cart and the sides of the lift (or skirting if included) and the nuts on the casters.



Guides located on cart



Guides located on platform of system positioner (lift and tilt)



Guides located on outside of system positioner, floor



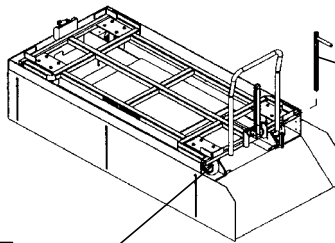
Guides located on base of system positioner (lift)

Will cart be pushed onto the system positioner: _____
 Will cart be pulled onto the system positioner: _____
 Guides located on cart: _____
 Guides located on outside of system positioner: _____
 Guides located on system positioner: _____
 Cart present switch: _____
 Green wink eye on pedestal: _____

Yes: _____ No: _____
 Yes: _____ No: _____
 Yes: _____ No: _____
 Yes: _____ No: _____
 Platform: _____ Base plate: _____
 Yes: _____ No: _____
 Yes: _____ No: _____



Cart present switch:
Lift will not raise unless switch is activated



Lifting by cart wheels

Manual cart lock pin
(can be inter connected with lift controls)

Manual cart lock pin: _____
 Manual cart lock pin inter connected with controls: _____
 How will the cart be lifted / tilted: _____
 For tilt system describe how the cart and dunnage will interface with gussets: _____

Yes: _____ No: _____
 Yes: _____ No: _____
 By the cart wheels: _____ By the frame: _____

13. Cart design information

Cart Basics:

Platform: _____
 Capacity (Cart): _____
 Center of gravity location: _____
 Will the cart be center loaded: _____
 Rotate on cart: _____
 Tilt on cart: _____
 Floor Brake: _____
 Fork Pockets: _____
 Handle (bolt - on): _____
 Handle (weld - on): _____
 Gusset requirements (corners): _____
 Gusset requirements (full face): _____

Tube: _____ Flat steel: _____
 Rated: _____ Actual: _____
 Yes: _____ No: _____
 Yes: _____ No: _____
 Yes: _____ No: _____
 Yes: _____ No: _____
 Yes: _____ No: _____
 4" (102mm) long x 1/4" (6.4mm) thick x 2" (51mm) tall
 3/8" (9.5mm) thick: _____ 1/2" (13mm) thick: _____

Quantity: _____
 Height: _____

Gusset requirements (please describe):

Caster:

Caster wheel durometer:

Floor surface type and condition:

Will casters spin outside of cart frame:

Yes:

No:

Tow Package

Will carts be pulled by power tugger:

Yes:

No:

How many carts will be towed maximum per train:

Hitch:

Yes:

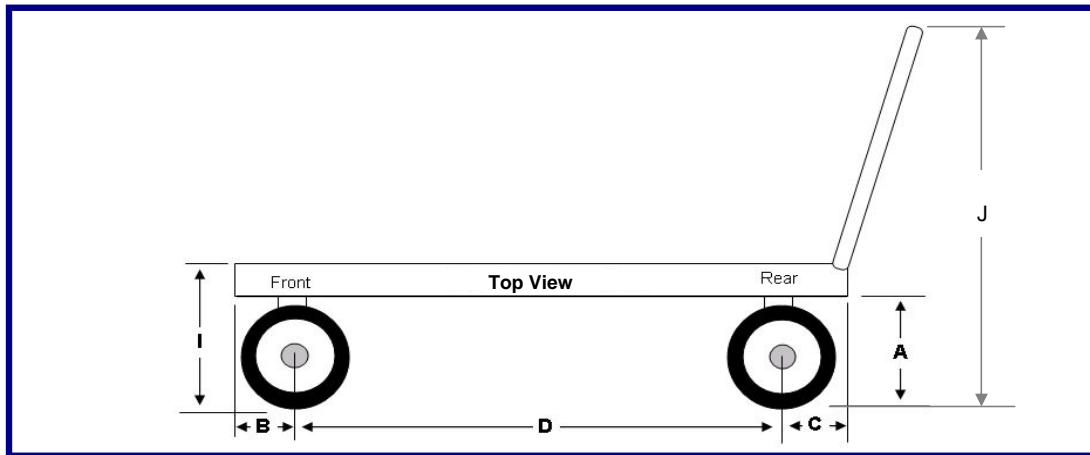
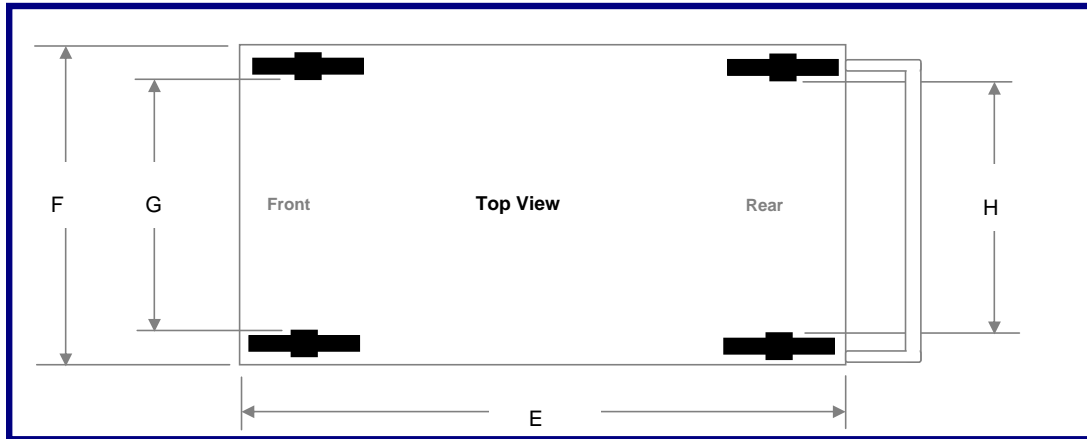
No:

Tow Bar:

Yes:

No:

14. Cart Dimensions



Dimension from the lowest point on the cart to the floor:

A:

Dimension from edge of cart to center of front caster wheel:

B:

Dimension from edge of cart to center of rear caster wheel:

C:

Dimension between the front center caster to the rear center caster:

D:

The length of the cart's deck:

E:

The width of the cart's deck:

F:

The dimension between the inner most part of the front casters:

G:

The dimension between the inner most part of the rear casters:

H:

The dimension from the floor to platform where the pallet/bin will sit:

I:

The dimension from the floor to the top of the handle:

J:

Will the cart have a hitch or tow bar that extends below the bottom of the carts deck:

Yes:

No:

The dimension from the floor to the bottom of the hitch or tow bar:		
Hitch location:	Front:	Rear:
Tow bar location:	Front:	Rear:
Wheel diameter of front caster:		
Wheel diameter of rear caster:		
Front casters (If swivel define swivel diameter):	Fixed:	Swivel:
Rear casters (If swivel define swivel diameter):	Fixed:	Swivel:
Middle (load) casters:	Yes:	No:

15. Other data

Installation of system responsibility:	Herkules Equipment Corporation:	Customer:
Lift quantity:		
Cart quantity:		
Proposal required by date:		
System required delivery date:		
Target price:		

Examples: Sequence of Operation

1. Example # 1:

Sequence of Operation:

1	Cart - Is empty
2	Cart - Is loaded at the shipping dock with a fork lift truck (6 layers of dunnage with parts)
3	Cart - Is then transported to the assembly line with a tugger - train style (typical train length equals 4 carts)
4	Cart - Is un-hitched from train and positioned next to lift system for the assembly operator to load onto the lift system
5	Cart - The empty cart is removed from lift and connected to the train by the tugger operator
6	Lift - The lift is now in the fully lowered position
7	Cart - The full cart is then loaded onto the lift by the assembly operator
8	Lift and cart - System is raised to the operators desired ergonomic work height as the parts are removed
9	Lift and cart - When the last part is removed, the lift is then fully lowered
10	Cart - The empty cart is removed from lifting system and connected to train by tugger operator
11	Process repeats

2. Example # 2

Sequence of Operation:

1	Lift and cart - Assembly line operator removes and assembles the last part X from the dunnage trays on the cart
2	Lift and cart - Assembly line operator lowers the lift to the full down position
3	Lift cart - Assembly line operator removes the empty cart from the lift
4	Cart - The empty cart is moved to a staging area next to the lift
5	Cart - The full cart is taken from the staging area and loaded onto the fully lowered lift
6	Lift and cart - The Herkules lift is raised to the operator desired ergonomic work height as the parts are removed
7	Part X - arrives via semi truck trailer at the shipping dock
8	Cart - Is loaded at the shipping dock with fork lift truck (6 layers of dunnage with parts)
9	Cart - Is transported to the assembly line with tugger - train style (typical train length equals 4 carts)
10	Cart - Is un-hitched from train and positioned next to lift system in the staging area for the assembly operator
11	Cart - The empty cart is removed from staging area and connected to train by tugger operator
12	Cart - The empty cart is transported to the shipping dock to be reloaded
13	Process repeats