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Dual Pivot

# DUAL PIVOT HOOK HOISTS

## MODELS: U4/5 & U5-DPHK

(**DPHK**) – **Dual Pivot Hook Hoists** are ideal for the waste, recycling, landscaping, construction and roofing industries by offering greater versatility than traditional roll-off cable hoists. With adjustable hook heights, the U4/5-DPHK models have the advantage of essentially two hoists in one. Dual pivot hook hoists keep containers safely secured to the hoist frames during the dump cycle with rear container hold downs and a rear pivoting hinge. Through the ease of in-cab hoist operation, the U4/5-DPHK and U5-DPHK models improve operator safety and efficiency through faster cycle times.

# Standard Features

- Inside air controls mounted in ergonomic power tower featuring Plug And Play™ wiring
- Back-up alarm & hoist up alarm with signal light in cab
- Secondary manual controls mounted outside on driver's side
- Stationary rear hold downs
- Dual rear rollers are ductile cast iron 6" OD and flared sides with bronze bushing
- Adjustable hook heights via pull pin design (54" & 61 ¾" – U4/5-DPHK only)
- In frame rail rollers and bronze bushings allow for smooth loading/unloading)
- Twin locking mechanism for dual pivot activation
- Pintle adaptable rear apron and bumper assembly complete with DOT approved LED Lighting
- 3 micron return filtration inside of 50-gallon steel tank with dual sight/temp gauge
- Warranty: Lifetime on hoist frame and 2-year limited on hydraulic system
- Customized engineering layouts ensure the exact fit for each customer
- Engineered and manufactured in the U.S.

| FEATURE | |
|---|---|
| **Hoist main frame** | Structural tubing A500 grade C |
| **Jib frame/pivot tube** | Structural tubing A500 grade C & A514 - T1 steel |
| **Hydraulic pump** | Gear type 37.5 GPM @1,500 RPM |
| **Operating pressure** | 3,500 PSI |
| **Hydraulic valve** | 2 spool / 45 GPM w/ safety bypass |
| **Oil reservoir** | 50-gallon steel tank w/ internal 3 micron return filtration |
| **Lift cylinders** | (2) dual acting rod type |
| **Jib cylinders** | (1) dual acting rod type |
| **Hinge shaft** | 2" solid steel |
| **Front stops** | Jib fully extended |
| **Hold downs** | Stationary rear hold downs |
| **Container stools** | Rollers w/ bronze grease grooved bearings |
| **Pickup Hook** | A514 - T1 steel |
| **Hook height** | U4/5 - adjustable 54" to 61.75"; U5 - fixed @ 61.75" |
| **Rear stabilizer** | Optional (10" ground roller, hyd. activated) |

Inside air controls mounted in ergonomic power tower featuring Plug And Play™ wiring

Secondary manual controls mounted outside on driver's side


3 micron return filtration inside of steel tank

50-gallon steel hydraulic tank side mounted with dual sight / temp gauge

In frame rail rollers and bronze bushings allow for smooth loading / unloading

Twin locking mechanism for dual pivot activation

Dual rear rollers are ductile cast iron 6" OD and flared sides w/ bronze bushing

Pintle adaptable rear apron; Stationary rear hold downs

# Available Options

- Pioneer tarping systems
- Toolbox (various sizes and styles: steel, aluminum and poly)
- Pintle hook tow packages
- Back-up camera systems
- Hydraulics / wet kits to the rear (single & dual acting)
- Fenders (various sizes and styles: steel, aluminum and poly)
- Safety and work light packages
- Pass through hold downs
- Short stops for shorter containers *U5-DPHK-200 only
- Rear hydraulic activated stabilizer with 10" ground roller


Pioneer tarping systems

Toolbox (various sizes and styles: steel, aluminum and poly)

Pintle hook tow packages; Back-up camera systems

Fenders (various sizes and styles: steel, aluminum and poly)

Safety and work light packages

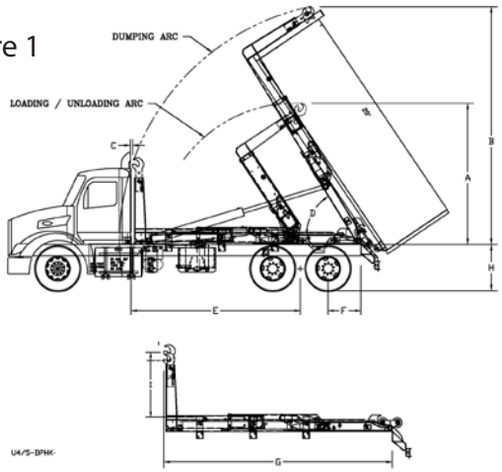
Back-up camera system

Rear hydraulic activated stabilizer with 10" ground roller

**U5-DPHK-200** shown with Pioneer RP4500SARG; Full length bumper; (2) lift axles; 4" work lights and quad axle poly fenders

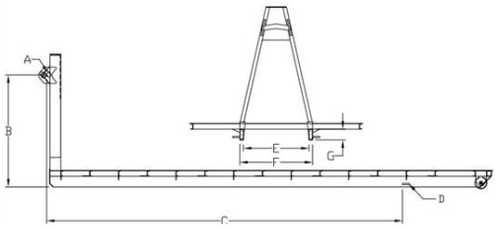

Dual Pivot

Figure 1










| Lift Bar Dia. | Hook Ht. | Bar to Hold Down | Hold Down Locations | Inside Sill Width | Outside Sill Width | Long Still Ht. |
|---|---|---|---|---|---|---|
| **A** | **B** | **C** | **D** | **E** | **F** | **G** |
| 2 ½″ | 54″ | 197 ½″ min. | Inside & Outside | 36 ½″ min. | 41 ¾″ max. | 6″ |
| 2 ½″ | 61 ¾″ | 197 ½″ min. | Inside & Outside | 36 ½″ min. | 41 ¾″ max. | 6″ |

## Notes for Figure 1

1. When recommending container lengths, weight distribution, fender interference and overhang are factors. Please consult your local ordinances when determining the model of hoist needed to suit your container needs.
2. Factory tested with recommended container length and water level load.
3. Total maximum height will depend on the container and frame height. Consult engineering for clearance.
4. Frame Height = Top of truck chassis frame to ground. Using 22 ½″ tires only. Tested w/ 43 ⅝″ frame height; any truck frame higher than 43 ⅝″ will change hoist capacities, dump angle and its ability to snatch onto the bar. For higher truck frames or using larger tires, consult engineering for clearance and capacity ratings.
5. This distance does not allow for a behind the cab (BTC) oil reservoir, tarper platform and or room to add a tarper; must add space for those items.
6. Air ride suspensions require up to 25″ maximum after frame.

## Minimum Truck Requirements (Tandem Axle)

Axle rating: 18,000 front / 44,000 rear

Truck torque: 418 ft. lbs.

**The chart below is an example of how to calculate the chassis section modulus (RBM / PSI = SM). Regardless of the frame YIELD and RBM, the min. SM must be 20 in³ or more per each frame rail.*

| Truck Channel Ht. | RBM | Yield (PSI) | RBM/PSI = SM in³ |
|---|---|---|---|
| 10″ or more (single wall) | 2,400,000- 4,500,000 | 120,000 psi | 20 in³ - 37.5 in³ |
| 10″ or more (double wall) | 2,000,000- 4,000,000 | 100,000 psi | 20 in³ - 40 in³ |

*Note: The single walled 120k psi with RBM less than 2,400,000 would not be acceptable because its SM would fall below the 20 in³ minimum specification (2,300,000 / 120,000 = 19.17 in³). For frames less than 10″ consult engineering.*

| Specifications (Tandem Axle) | U4/5-DPHK-176 | U4/5-DPHK-200 | U5-DPHK-176 | U5-DPHK-200 | U5-DPHK-224 |
|---|---|---|---|---|---|
| Recommended Container Size – [1] | 16′ to 20′ | 18′ to 22′ | 16′ to 20′ | 18′ to 22′ | 20′ to 24′ |
| Rated Hoist Capacity @ Hook Height [2] | 40k lbs. @ 54″<br>50k lbs. @ 61 ¾″ | 40k lbs. @ 54″<br>50k lbs. @ 61 ¾″ | 50k lbs. @ 61 ¾″ | 50k lbs. @ 61 ¾″ | 50k lbs. @ 61 ¾″ |
| A – Max. Hook Height (Load/Unloading) [3,4] | 128 ⅜″ or 132 ⅝″ | 128 ⅜″ or 132 ⅝″ | 133 ¼″ | 133 ¼″ | 149 ½″ |
| B – Max. Hook Height (Dumping) [3,4] | 220 ⅝″ or 224 ¾″ | 220 ⅝″ or 224 ¾″ | 224 ¾″ | 232 7⁄16″ | 250 ½″ |
| C – Back of Cab to Hoist [5] | 3″ | 3″ | 3″ | 3″ | 3″ |
| D – Dump Angle | 58º | 49º | 58º | 49º | 49º |
| E – (CT) Cab to Trunnion [5] | 176″ | 200″ | 176″ | 200″ | 224″ |
| F – After Frame [6] | 14 ½″ to 25″ max. | 14 ½″ to 25″ max. | 14 ½″ to 25″ max. | 14 ½″ to 25″ max. | 14 ½″ to 25″ max. |
| G – Hoist Length | 213″ | 232″ | 213″ | 232″ | 252″ |
| H – Frame Height [4] | 43 ⅝″ or less | 43 ⅝″ or less | 43 ⅝″ or less | 43 ⅝″ or less | 43 ⅝″ or less |
| I – Hook Height | 54″ or 61 ¾″ | 54″ or 61 ¾″ | 61 ¾″ | 61 ¾″ | 61 ¾″ |
| Lift Cylinders - (2) dual acting | 7″ x 3 ½″ x 81″ | 7″ x 3 ½″ x 81″ | 7″ x 3 ½″ x 81″ | 7″ x 3 ½″ x 81″ | 7″ x 3 ½″ x 81″ |
| Jib Cylinder - (1) dual acting | 4″ x 2 ½″ x 48″ | 4″ x 2 ½″ x 48″ | 4″ x 2 ½″ x 48″ | 4″ x 2 ½″ x 48″ | 4″ x 2 ½″ x 52″ |
| Rear Stabilizer | Optional | Optional | Optional | Optional | Optional |
| Approximate Weight w/ Standard Features | 7,234 lbs. | 7,403 lbs. | 7,194 lbs. | 7,363 lbs. | 7,789 lbs. |
| Cycle Times @ 37.5 GPM & 1,500 RPM | | | | | |
| Extending Dump | 43 sec. | 43 sec. | 43 sec. | 43 sec. | 43 sec. |
| Retracting Dump | 32 sec. | 32 sec. | 32 sec. | 32 sec. | 32 sec. |
| Extending Jib | 4 sec. | 4 sec. | 4 sec. | 4 sec. | 4 sec. |
| Rectracting Jib | 3 sec. | 3 sec. | 3 sec. | 3 sec. | 3 sec. |

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