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AFX-Series

AFX-SERIES (ABOVE FRAME) ROLL OFF CABLE HOISTS

MODELS: AFX -174 & -194

RAIL TYPES: (OR, IO, EX, OX)

Tandem Axle: 60,000 lb. capacities 18' to 24' recommended container lengths

AFX (Above Frame - next gen.) The Galbreath Above Frame (AF) cable hoists are versatile enough to work with any truck chassis, suspensions, exhaust systems and fuel tanks. The AF hoist is ideal for use with alternative fuel chassis such as CNG and LNG. As the lift cylinders can be mounted on top of the chassis frame, it provides additional space for other accessories. Plus, the single-cylinder reeving system improves load and unload speeds by up to 25%.



Standard Features

- Inside air controls mounted in our ergonomic power tower featuring Plug And Play™ wiring
- Secondary manual controls mounted outside on driver's side
- Tarp/Valve mounting platform Included
- 47 gallon Behind The Cab (BTC) mounted hydraulic tank
- 3 Micron filtration inside steel tank with dual sight/temp gauge & air breather
- Reverse mount, inboard above frame lift cylinders
- Recessed vertical front sheave assembly w/ 10" grease grooved cable sheaves
- Fully protected single cylinder winch rail design
- Stationary rear hold downs
- Automatic spring loaded pass over front container lock
- 4" O.D. Side rollers with bronze bearings
- 3/8" T1 Wear strips on top of main frame rails (All extendable tail models)
- 1/2" Inside rail container guides on top of main frame (IO models only)
- Swivel eye cable end (w/ latch on IO models)
- Auto fold air assist ICC bumper
- Heavy duty lowered rear hinge
- Pintle adaptable rear apron & bumper assembly complete w/ DOT approved LED Lighting
- LED Mid body turn signal lights
- Dual hoist maintenance/safety props
- Backup alarm & hoist up alarm with signal light in cab
- Warranty: 12 months & 2 years limited on hydraulic components
- Customized engineering layouts ensure the best fit for each customer
- Engineered and manufactured in the US



Inside air controls in power tower or integrated into center console on cab over trucks; secondary outside manual controls at main control valve



47 gallon (BTC) steel hydraulic tank w/ in tank 3 micron filtration and a dual sight and temperature gauge



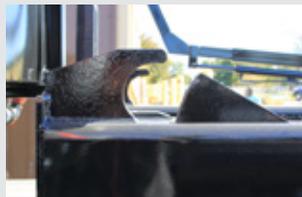
Reverse mount, inboard above frame lift cylinders



Recessed vertical front sheave assembly



Fully protected single cylinder winch rail design



Automatic spring loaded pass over front container safety lock



4" O.D. side rollers w/bronze bushings



Auto folding air assist ICC bumper



In cab hoist up indicator light



Split bumpers w/ LED lighting



HD lowered rear hinge with pintle adaptable rear apron

FEATURE	TANDEM AXLE
Hoist Main Frame	10" x 4" x 1/2" A500 grade C tubing (3/8" on EX & OX models)
Hoist Subframe	4" x 4" x 1/4" A500 grade C tubing
Hydraulic Pump	Gear type 37.5 GPM @1,500 RPM
Operating Pressure	3,200 PSI
Hydraulic Valve	2 or 3-spool / 45 GPM w/ safety bypass
Oil Reservoir	47 gallon BTC steel tank w/ internal 3 micron return filtration
Lift Cylinders	(2) Dual acting rod type
Hinge Shaft	2 1/2" Solid steel
Winch Cylinder	(1) Dual acting rod type
Cable / Cable End	7/8" Steel cable / swivel cable end
Cable Sheaves	10" Grease grooved
Cable Anchors	(4) Cable clamps
Front Stops	1 1/2" Steel plate
Front Safety Lock	Automatic spring loaded pass over front container safety lock Stationary
Rear Hold Downs	rear hold downs
Outside Rollers	4" O.D. with bronze bearings
Inside Rail	1/2" Angle steel (IO models only); 3/8" T1 wear strip on all ext. tail models
Tail	Fixed tail (OR, IO models); 60" or 55" ext. tail (EX & OX models)
ICC Bumper	Auto fold air assist (n/a on EX models)

Available Options

- Pioneer® tarping systems
- Pintle hooks and towing applications
- Auxiliary hydraulic hook ups and wet kits
- Outside rail skid plates; full length or rear wing
- Outboard supported side rollers
- Toolboxes in various types and sizes (poly, steel, aluminum)
- Fenders in various types and configurations (poly, steel, aluminum)
- Rear window screen protection
- Lift axles (steer and non-steer)
- Auxiliary container stops and rear hold downs
- Various cable ends
- Safety and additional LED work lights
- Speed limiting parameters for hoist up and ground speed
- Scale systems
- Backup camera systems



Pioneer® tarping systems



Pintle hooks and wet kits for towing applications



Outside rail skid plates; full length or rear wing



Toolboxes in various types and sizes



Fenders in various types and configurations



Rear window screen protection



Lift axles (steer and non-steer)



LED work lights

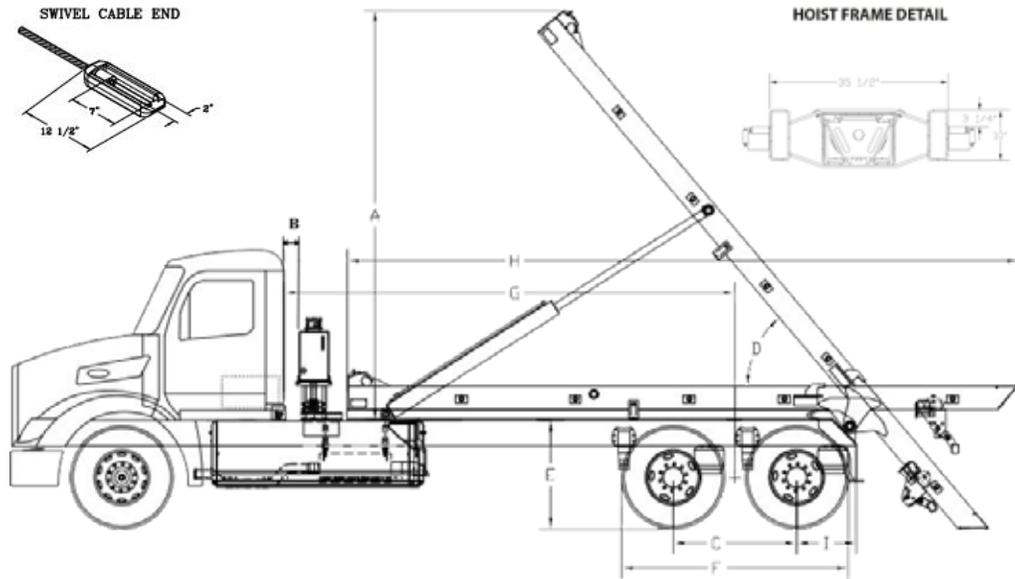


Back-up camera system

AFX-OR-174 shown with a Pioneer RP4500 SARG tarp system, outboard supported side rollers w/ a rear wing skid plate, HD nylon ratchet hold downs, steel tread plate fenders and work light options



AFX-Series



Notes for chart below:

- 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.
- Factory tested with recommended container length and water level load.
- Frame Height = top of truck chassis frame to ground. Using 22.5" tires only. For larger tires, consult engineering for clearance.
- This distance allows for the standard behind the cab (BTC) oil reservoir, taper platform. Must add 3" for adding Pioneer® Tarp or 7" for Roll Rite Tarp in most cases; check with engineering for validation.
- Request additional tail length for spring suspensions higher than 45"; see chart 1 for reference.

Models	AFX-OR-174	AFX-OR-194	AFX-IO-174	AFX-IO-194
FEATURE				
Recommended Container Size ¹	18' to 22'	20' to 24'	18' to 22'	20' to 24'
Rated Hoist Capacity ²	60,000 lbs.	60,000 lbs.	60,000 lbs.	60,000 lbs.
A – Height above truck frame ^{3,5}	173"	188"	173"	188"
B – Back of cab to hoists ⁴	6"	6"	6"	6"
C – Axle spread	51" - 60"	51" - 60"	51" - 60"	51" - 60"
D – Raised Dump Angle ^{3,5}	50°	50°	50°	50°
D1 – Load Angle ^{3,5}	n/a	n/a	n/a	n/a
E – Top of truck frame to ground ^{3,5}	45"	45"	45"	45"
F – Tire O.D. to O.D.	104" max	104" max	104" max	104" max
G – Cab to trunnion (CT) ⁴ add 3" for Pioneer Tarp or 7" for Roll Rite Tarp	186"	206"	186"	206"
H – Hoist Length	282 1/2"	305 1/2"	282 1/2"	305 1/2"
H1 – Hoist Length w/tail extended	n/a	n/a	n/a	n/a
I – After Frame	25"	25"	25"	25"
Lift Cylinders (reverse mount - dual cylinders)	6"x 3.5"x 73"	6"x 3.5"x 73"	6"x 3.5"x 73"	6"x 3.5"x 73"
Winch Cylinder (single cylinder)	7"x 4"x 80"	7"x 4"x 90"	7"x 4"x 80"	7"x 4"x 90"
Tail Cylinders (dual cylinders)	n/a	n/a	n/a	n/a
Approximate weight with standard features (ship out weight used; unmounted)	7,998 lbs.	8,265 lbs.	8,468 lbs.	8,735 lbs.

* Containers that overhang the rear of the bumper (Fixed or Folding ICC) by more than 24" will require the appropriate flagging to meet DOT requirements *

Minimum Truck Requirements (Tandem Axle)

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

Transmission torque: 383 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 Height	RBM	Yield (PSI)	RBM/PSI = SM in ³
10" or more (single wall)	2,400,000 - 4,500,000	120,000 PSI	20 in ³ - 37.5 in ³
10" or more (double wall)	2,000,000 - 4,000,000	100,000 PSI	20 in ³ - 40 in ³

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 = 19.17in³). For frames less than 10" consult engineering.

Cycle Times @ 3,800 PSI & 1,500 RPM

37.5 GPM

Hoist Up -	21 sec.
Hoist Down -	13 sec.
Winch On -	24 sec.
Winch Off -	14 sec.

*AFX-OR-174 theoretical times shown. Dash 194 hoists will be about 2 seconds slower in their respective Winch times.

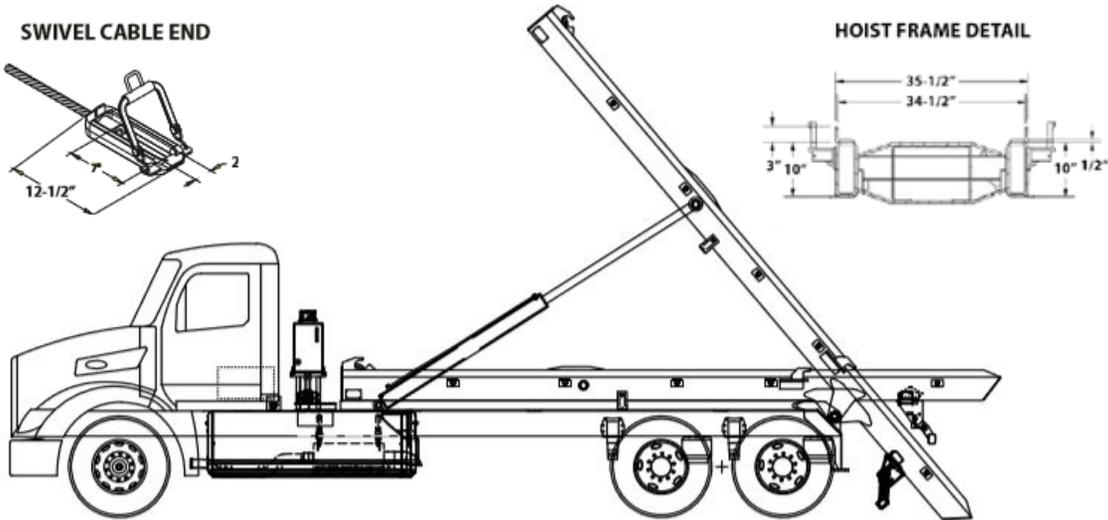
TRUCK FRAME HEIGHT & TAIL LENGTH CHART

Frame Height (Inches)		Tail Length measured from center of rear hinge to tip of tail	
MIN.	MAX.	Added Length	Total Length
42"	46"	0 inches - Std.	69 ¾"
46.5"	49"	4"	73 ¾"
49.5"	52"	8"	77 ¾"
52.5"	55"	12"	81 ¾"
55.5"	58"	16"	85 ¾"

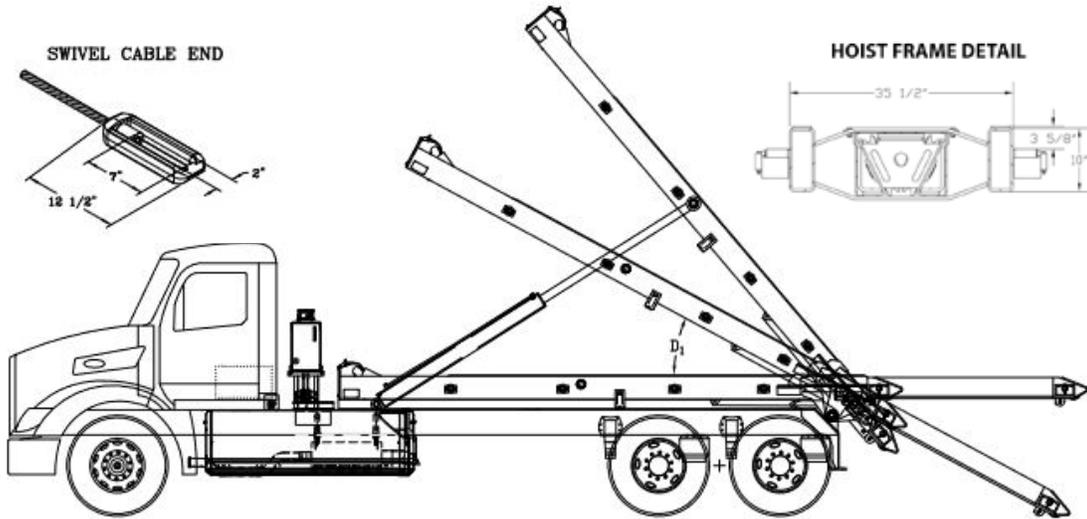
Round to the nearest inch

AFX-EX-174	AFX-EX-194	AFX-OX-174	AFX-OX-194
18' to 20'	20' to 22'	18' to 22'	20' to 24'
60,000 lbs.	60,000 lbs.	60,000 lbs.	60,000 lbs.
173"	188"	173"	188"
6"	6"	6"	6"
51" - 60"	51" - 60"	51" - 60"	51" - 60"
50°	50°	50°	50°
33°	33°	24°	24°
45"	45"	45"	45"
104" max	104" max	104" max	104" max
186"	206"	186"	206"
242"	262"	282 ½"	305 ½"
302"	322"	337 ½"	360 ½"
25"	25"	25"	25"
6"x 3.5"x 73"	6"x 3.5"x 73"	6"x 3.5"x 73"	6"x 3.5"x 73"
7"x 4"x 80"	7"x 4"x 90"	7"x 4"x 80"	7"x 4"x 90"
3.5" x 2.5" x 60"			
9,223 lbs.	9,490 lbs.	9,293 lbs.	9,560 lbs.

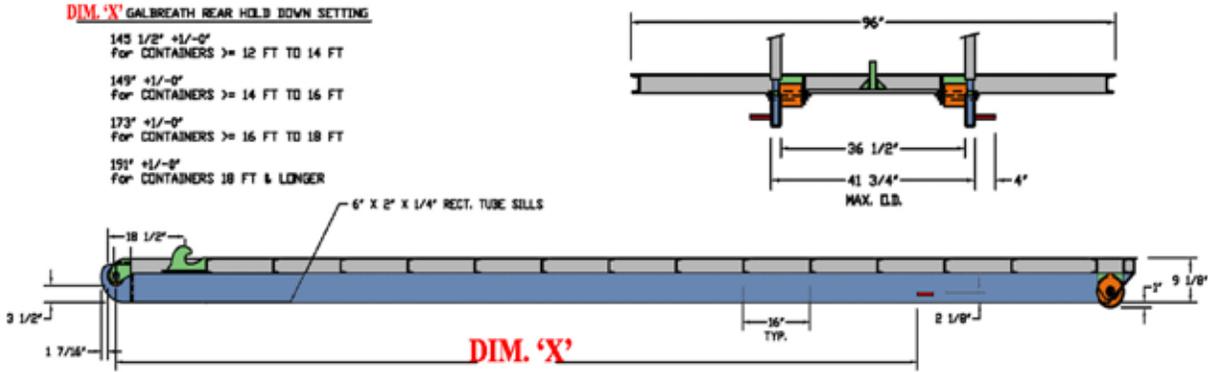
IO Models



EX & OX Models

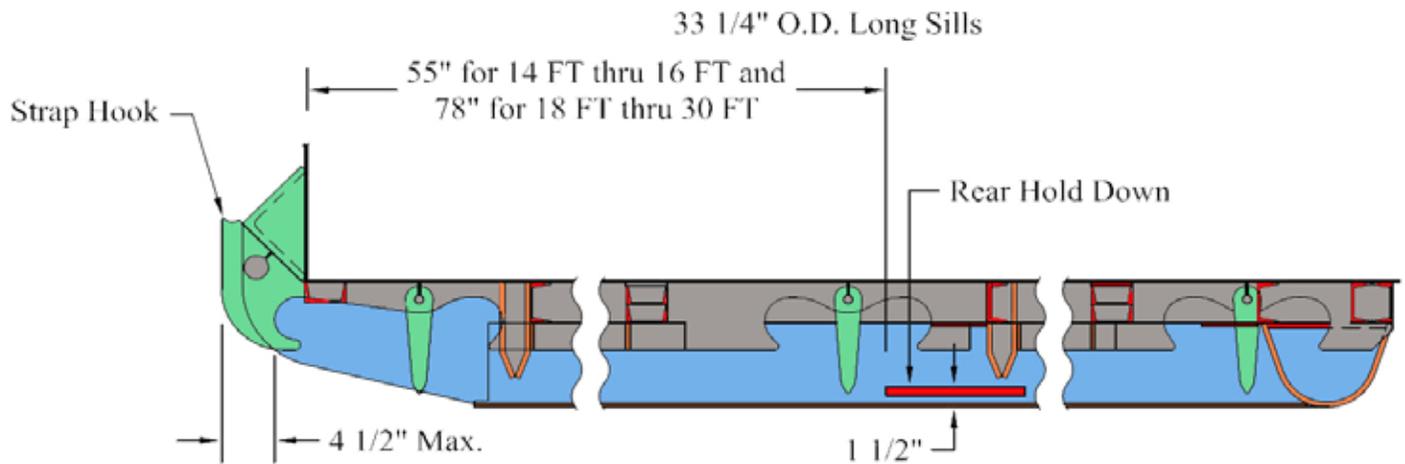


Outside Rail Container Requirements



*NOTE: For use with 10' containers, the hold down system will require other means such as ratchet type hold downs.

Inside Rail Container Requirements



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