

Custom Application Product Guide





Special “AED” Products

We use the acronym “AED” for Application Engineered Design. When a standard unit will not perform in a particular application, a special unit can be designed and built based on the specific requirements to satisfactorily perform the job. In some cases it may be as simple as modifying the arms on a standard unit, while most other applications require a complete custom unit designed solely for the application.

Over the years we have been involved in numerous special applications ranging from handling tires to fully automated pallet transfer systems. Cascade is committed to providing solutions for any material handling application. This booklet captures a majority of the custom products we have designed and produced for special applications worldwide.

Please feel free to contact us with any special requests.

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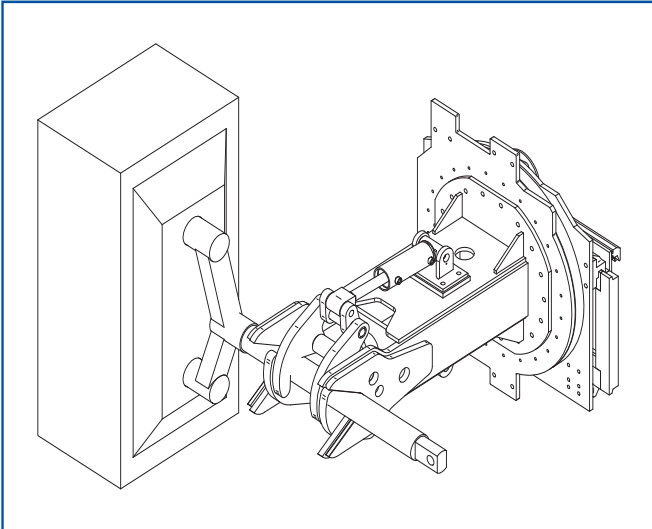
cascade CANADA

Custom Application Products

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Specially designed units to handle a variety of shapes and sizes.

CFS 90° Rotation



Insulated Arm "Lexan"

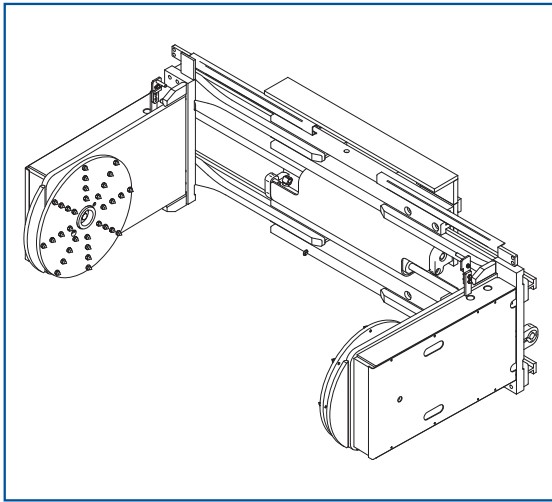


55C-AED-61981
Special Clamp Arm Frame
to grab post of Anode



50D-AED-SP

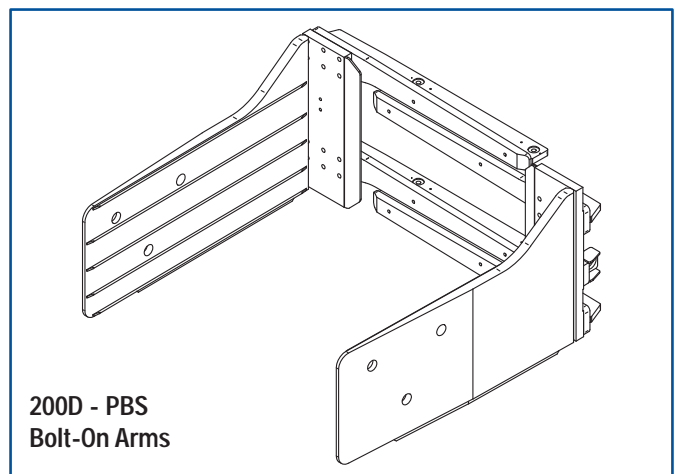
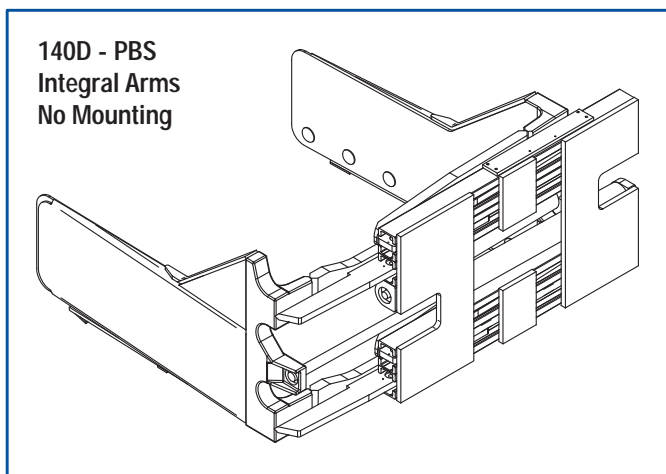
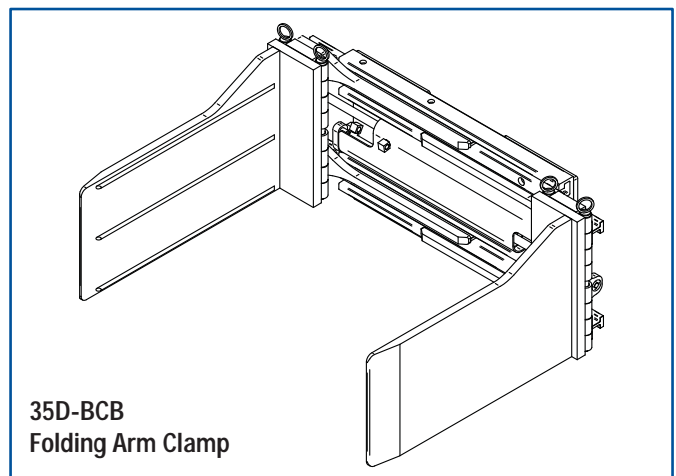
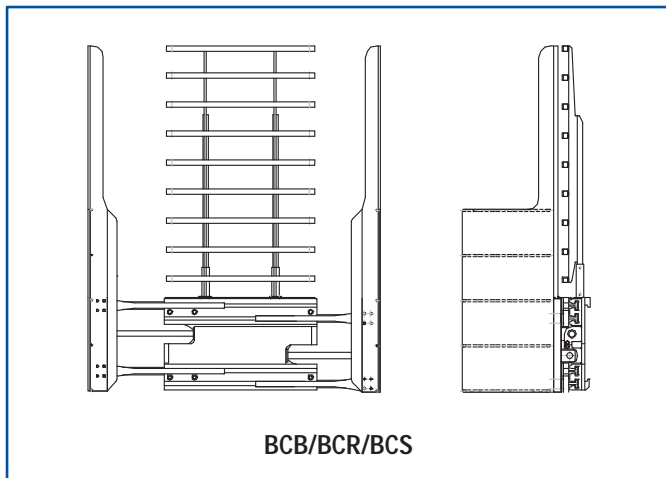
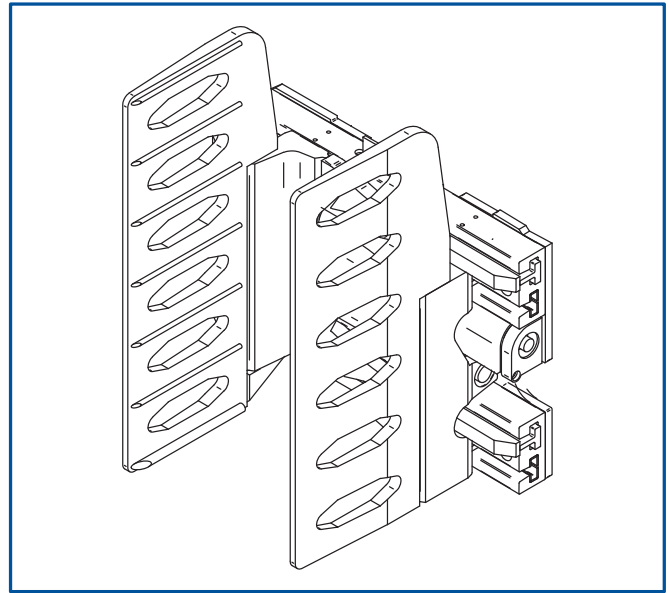
- Arms with 360° continuous Rotating Pads
- Round Pads with Spikes to handle Anode



180° Forward Tipping Clamp with Flat Pads



70D-PBS
High Profile Bale Arms
48" High x 24" Deep



35D-BCR-60809
Two Bale Clamps mounted on
360° Rotating Base
used as a Bale Separator



35D-BCB / BCS
Bale Clamp with Folding Arms
Special designed Arms are easily folded
inwards by pulling a pin at base





Bale Arms (Bat Wings)



220D-PBS

Various Arm Designs are available to handle different size Bales.



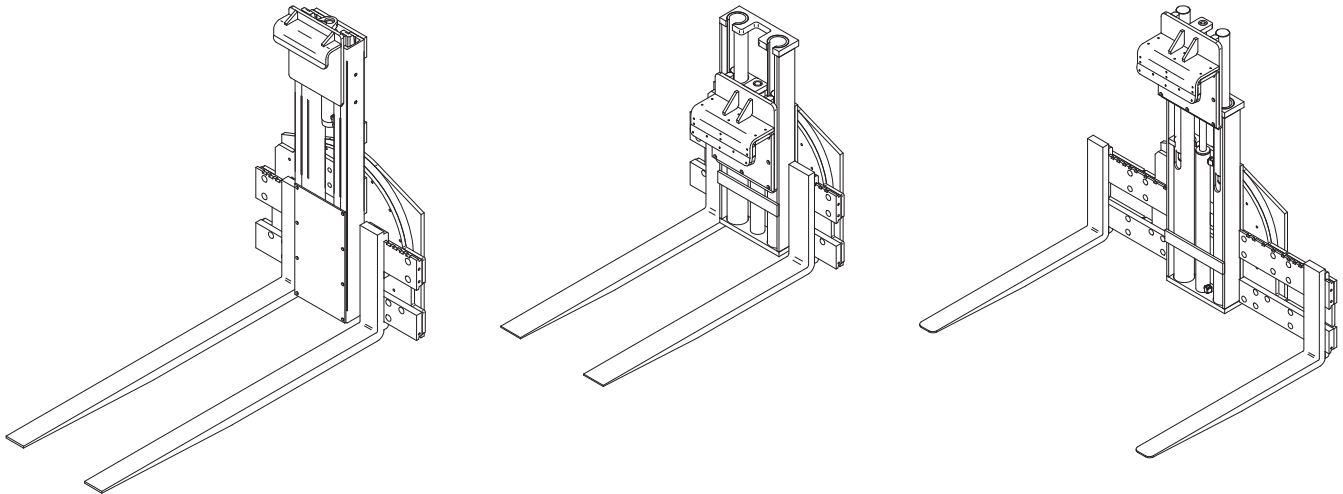
140D- Centre Arm (Removable)



Bale Arm Extension Rear

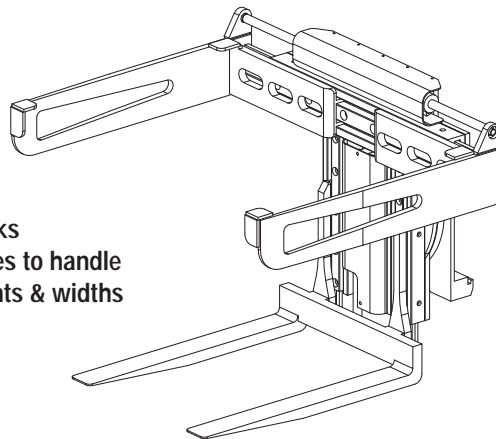


- Hydraulic Hold Down mounts in between Forks.
- Arm design retains Bin by locking the Bin wall.

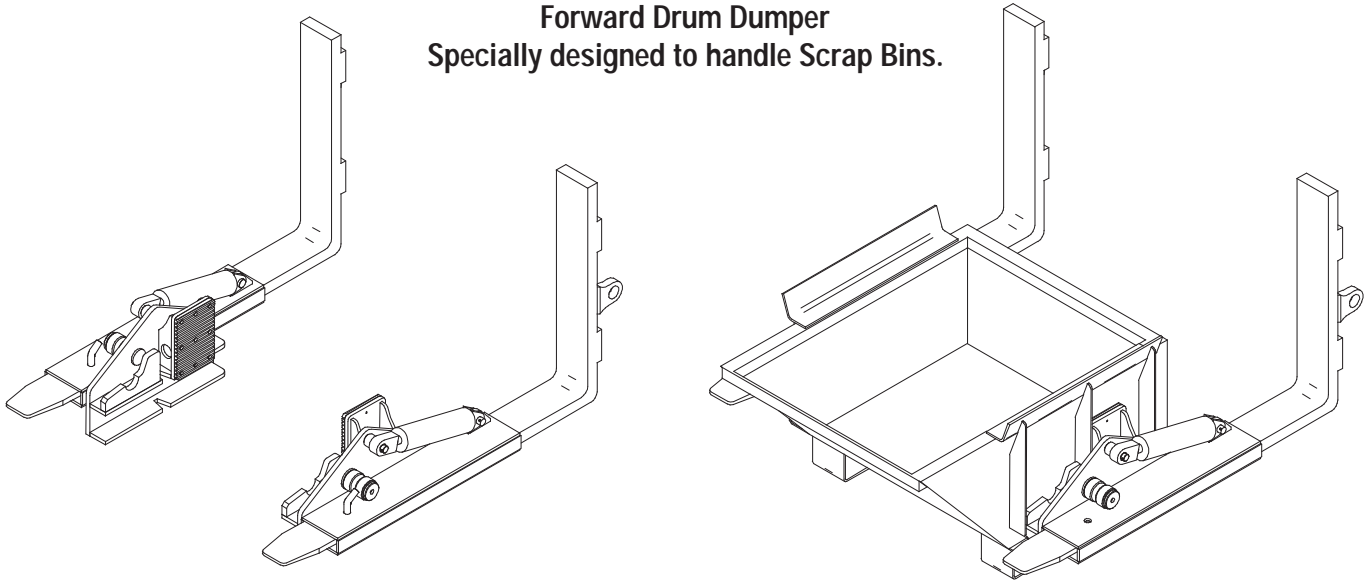


50D-RBD-SP

- 360° Rotation
- Lower Adjustable Forks
- Top Arm opens / closes to handle various size Bin heights & widths



Forward Drum Dumper Specially designed to handle Scrap Bins.



Special Hold Down Pad folds down over Bin. Pad has mesh with sliding Door. Required by customer



Rotator with
Hold Down &
Fixed Side Fork

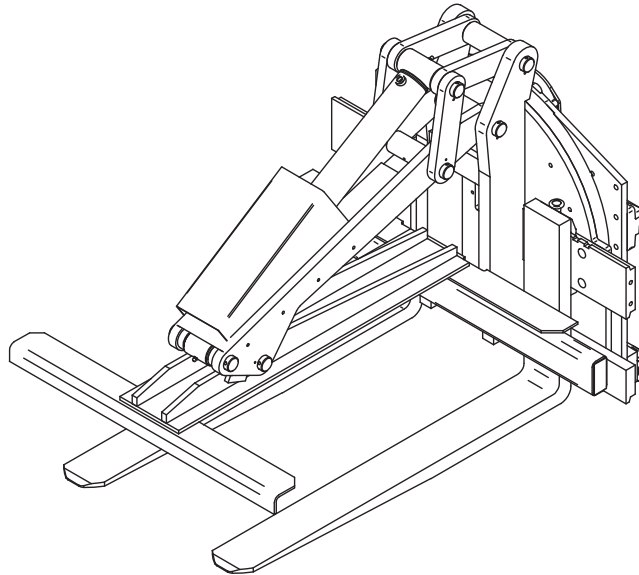
Hold Down Arm Offset

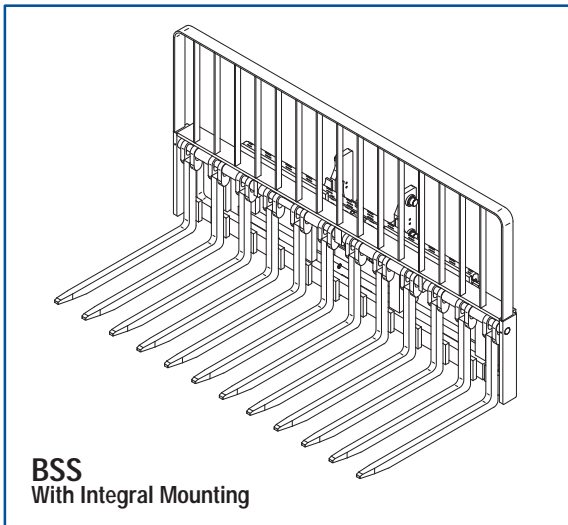
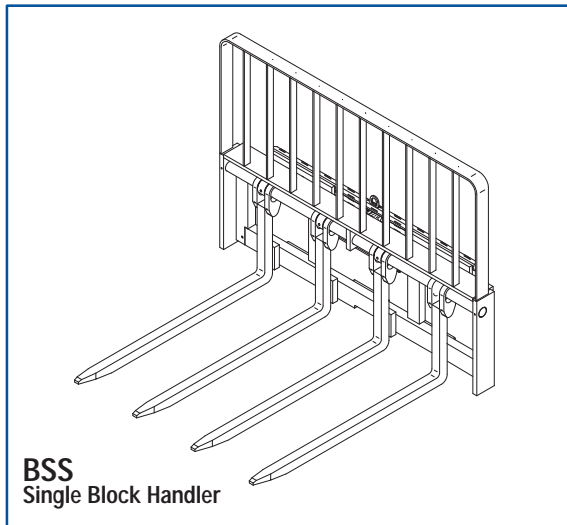
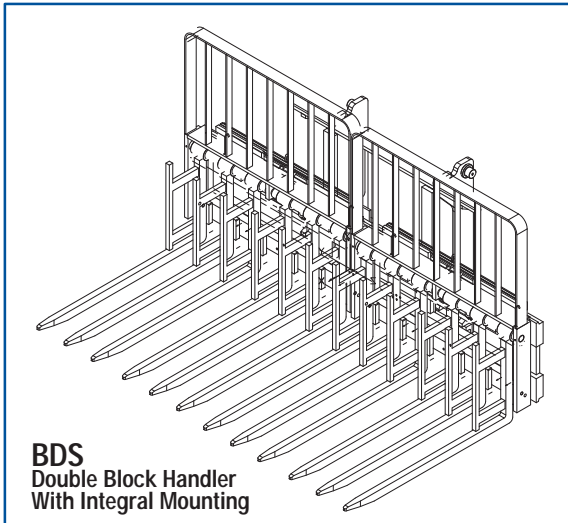
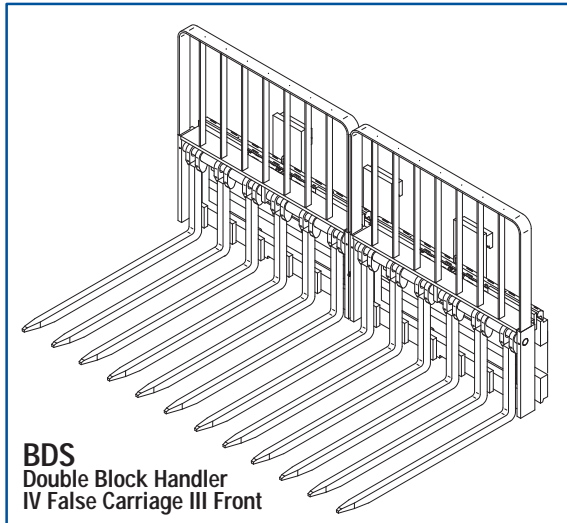


Rotator with custom Fork Assemblies and
Hydraulic Hold Down Arm.
Designed to empty Bins with Funnel Top.

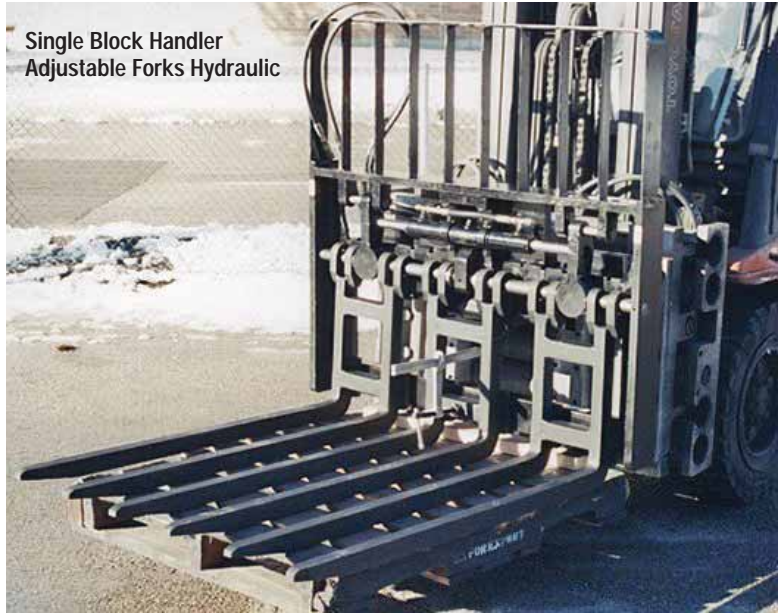


40D-RBD-SP
Rotating Bin Dumper designed specially
for the Produce Industry to handle Bins
of various Vegetables and Fruits





Single Block Handler
Adjustable Forks Hydraulic



70D-CFS
Fork Clamp
with slip-on Rubber Face
Pads to handle Concrete
Bricks and Pavers.

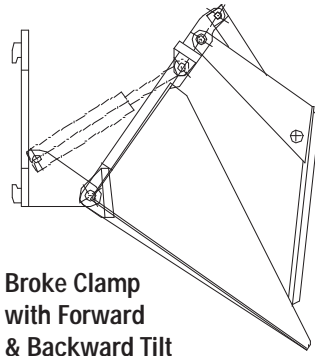
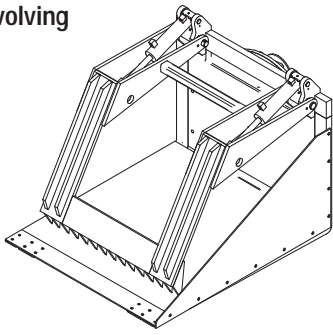
Double wide Block Handler with
Roller design for easy maintenance.



Broke Clamps



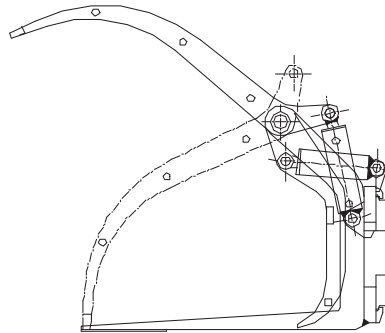
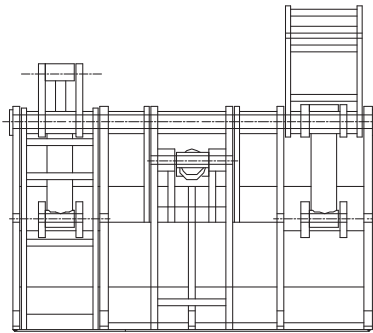
**BPR - Broke Clamp
Revolving**



**Broke Clamp
with Forward
& Backward Tilt**



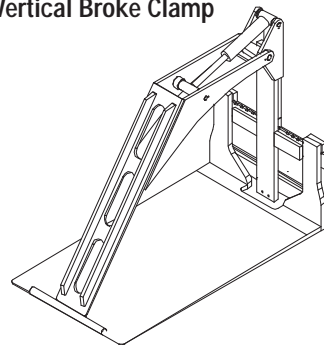
**BPV - Broke Clamp
with Kicker Arm**



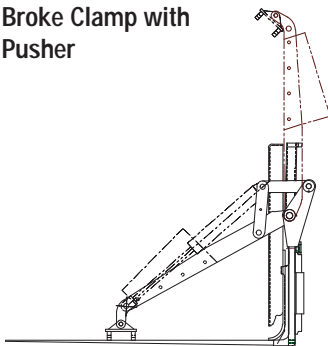
Special Dual Grapple Arm Design



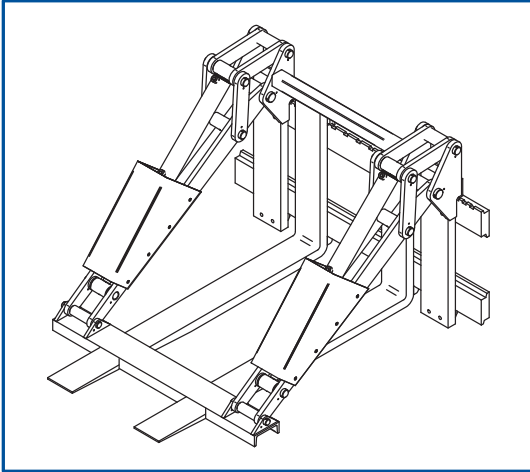
Vertical Broke Clamp



**Broke Clamp with
Pusher**



50C-BPV Broke Clamp with Vertical Opening Arm



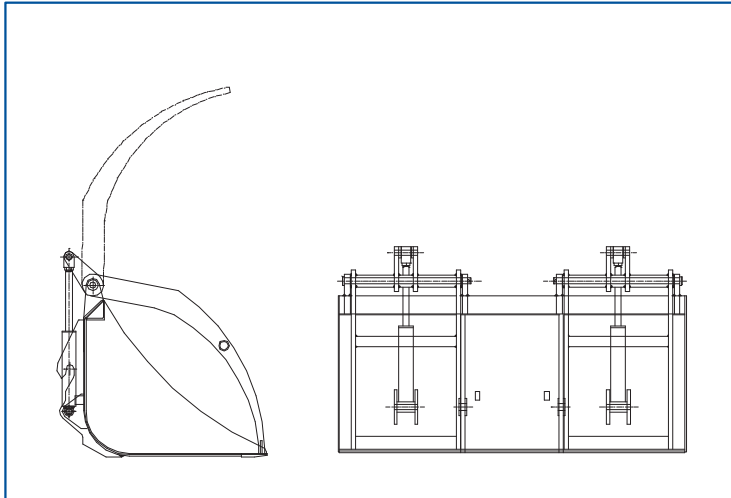
50C-BPC
Broke Clamp to handle
"Broke" Paper in
Printing Facilities



Forward Tilting Broke Clamp



Rotating Bucket



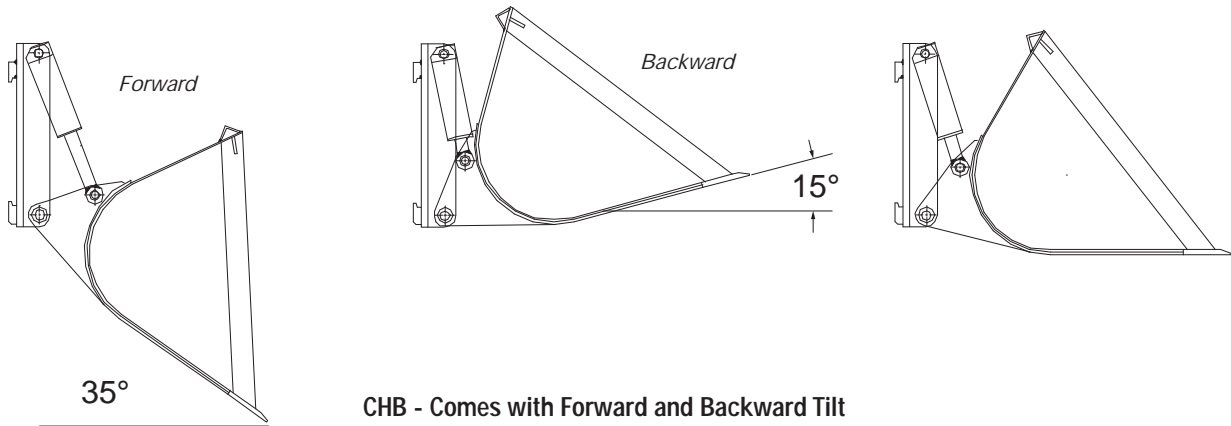
ITA Mounted Bucket with Grapple.
Grapple Arms offer Load Securing feature



FHB - Fork Mounted

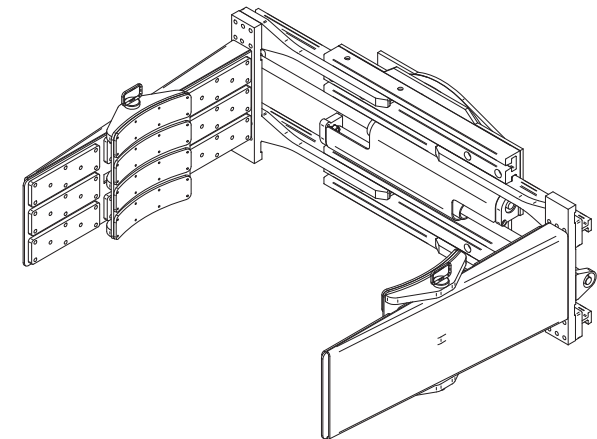
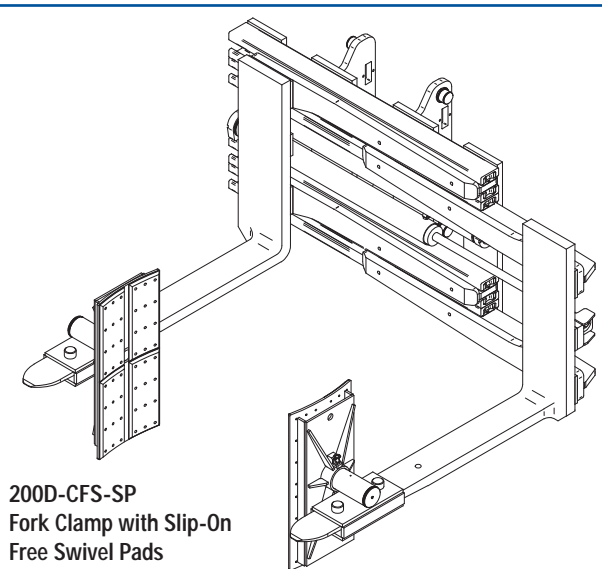
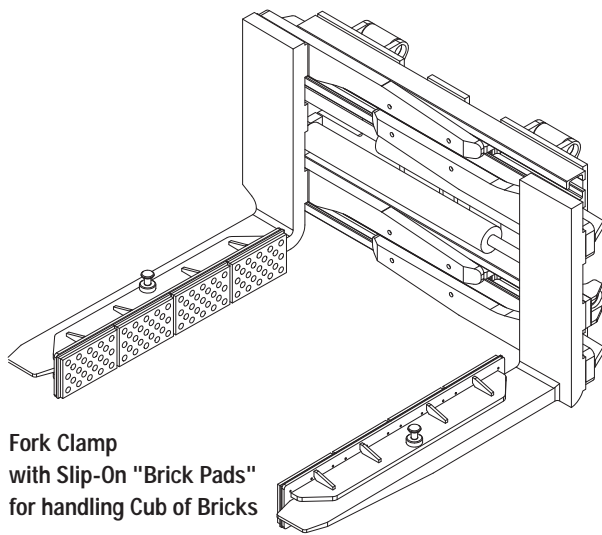
Buckets are custom made to width and tilt angle required.
Available as Carriage mount or Fork mounted.

-Custom design Bucket with special tilt angle ITA mounted bucket



ITA Mounted Bucket with Grapple





MCR
Concrete Pipe Handler



70D-MCR



300D-MCR



140D-MCR



Flat Arms for
Square Concrete
Structures

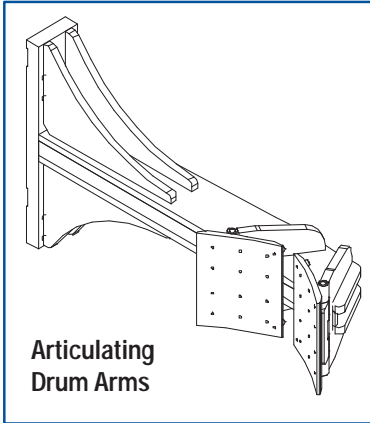
Curved Pads Slip-On
with locking pin to
handle Round Structures

300D-MCR

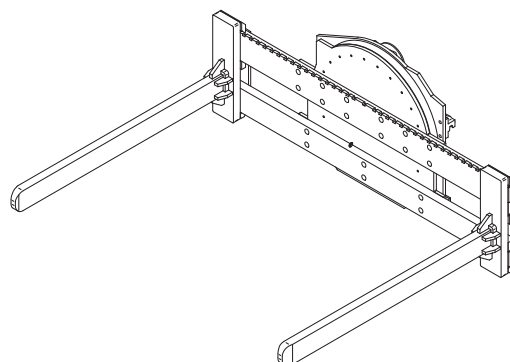
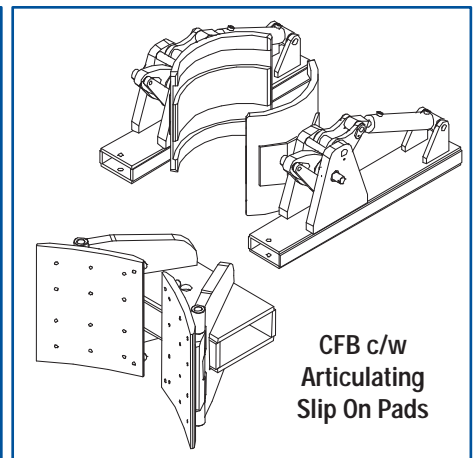
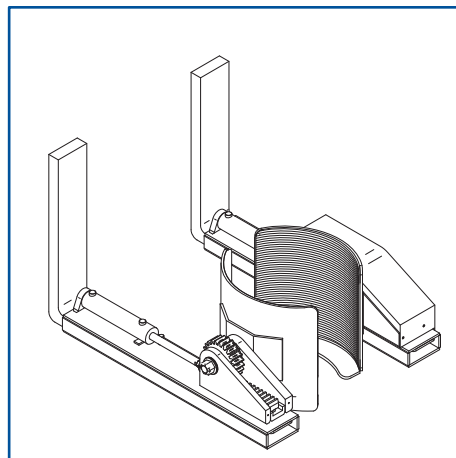
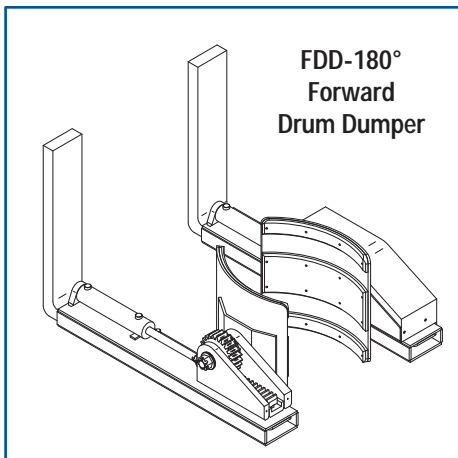


200D-MCR

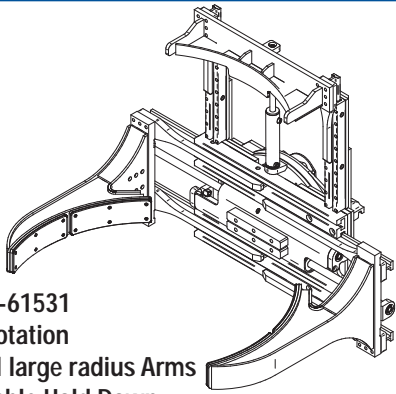




50D-DTR-SP
 - 360° Rotation
 - Special Arms with Articulating Pads to handle Various Diameter Bins



Rotator with special Arms
to handle large waste bins.
Arms designed to fit into
side pockets.



35D-DTR-61531

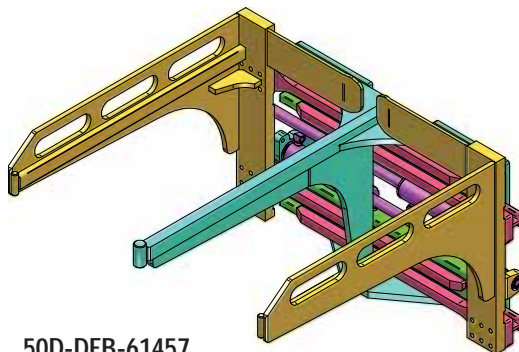
- 360° Rotation
- Special large radius Arms
- Adjustable Hold Down



35D-DTR-SP to handle Two Drum
Hinged Pads to Hand Various Diameters

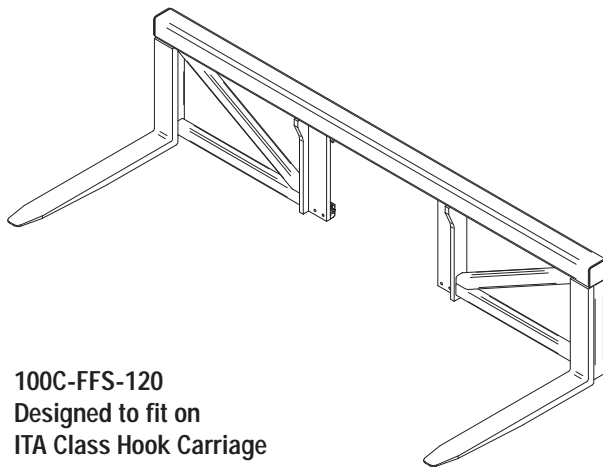


35D-FDD-13A
Forward Drum Dumper

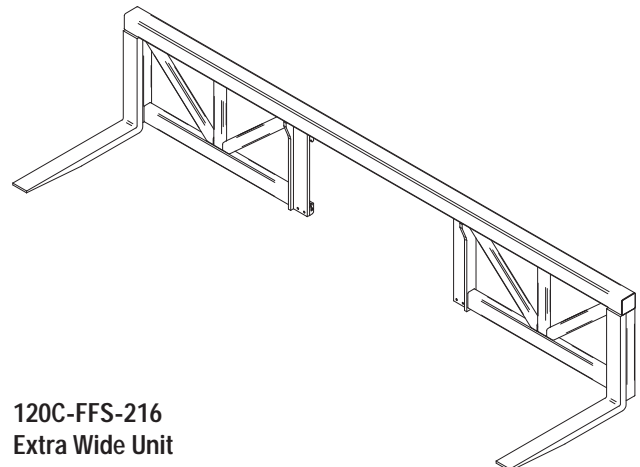


50D-DFB-61457



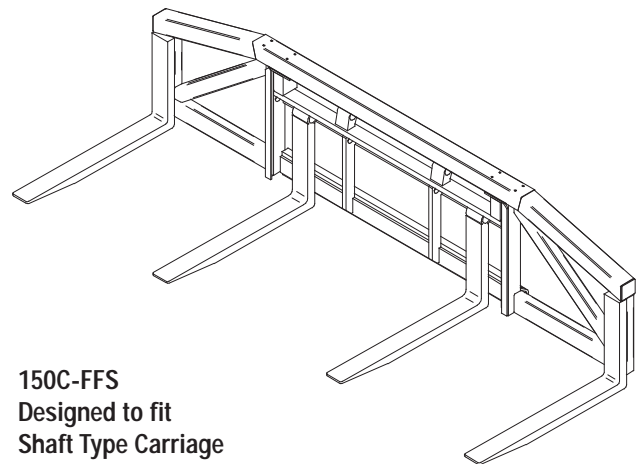


100C-FFS-120
Designed to fit on
ITA Class Hook Carriage



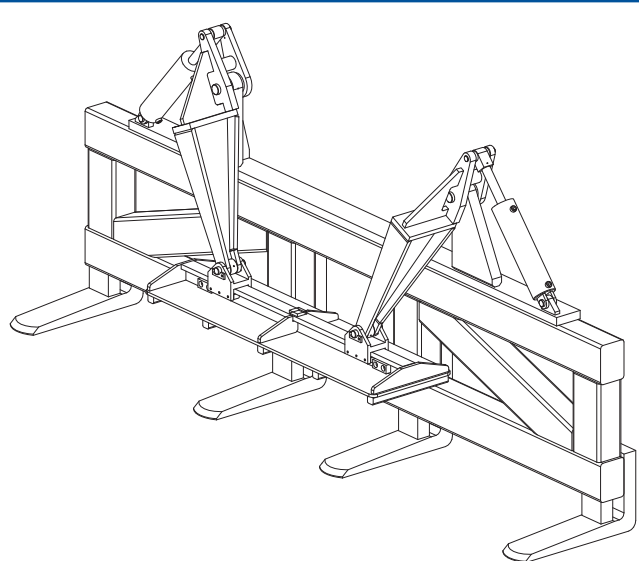
120C-FFS-216
Extra Wide Unit

- Fixed Fork Spreaders are designed to stabilize wide loads.
- Must be used in conjunction with Truck Forks.
- Each Unit is designed to fit a specific Truck Carriage.



150C-FFS
Designed to fit
Shaft Type Carriage

100C-FFS
Special unit with Load Hold Down
to handle stack of Steel Strips





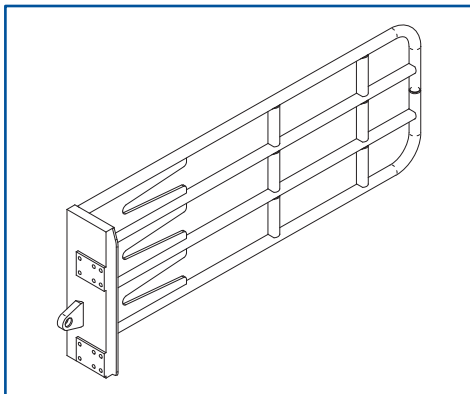
FFS on 50D Clamp

FFS on "C" Fork Positioner with Hold Down



ITA Mounting FFS with Hold Down

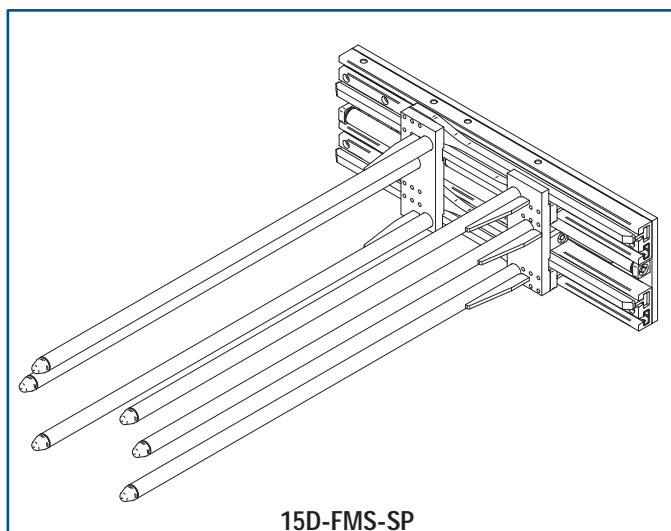




FMB - Foam Block



35D - With special tubular designed Arms to handle Foam



15D-FMS-SP



50D - 96" Long



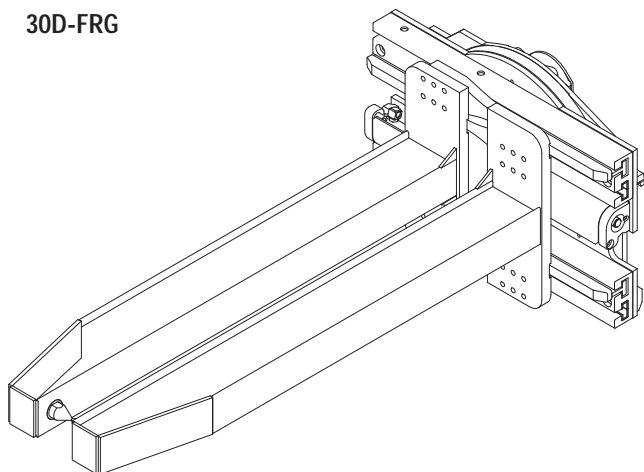
50D - 48" Long



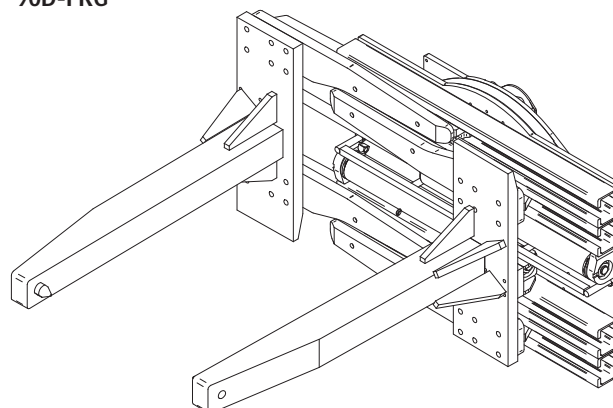
25D



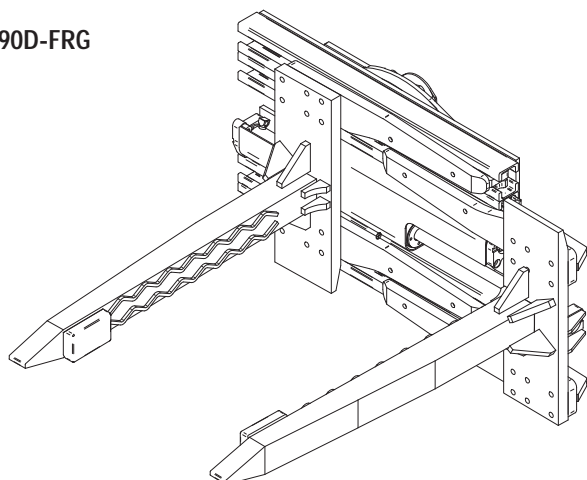
30D-FRG



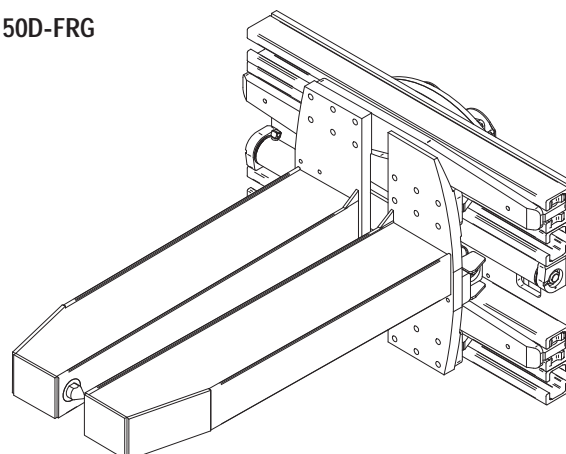
90D-FRG



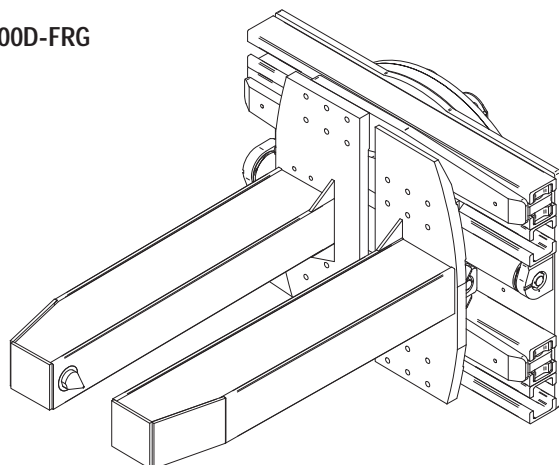
90D-FRG



150D-FRG



300D-FRG



300D-FRG-61858





90D-FRG



140D-FRG



50D-FRG-63853



90D-FRG-60869



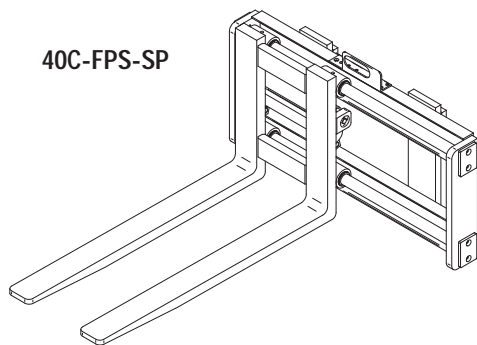
150C-FRG-62694



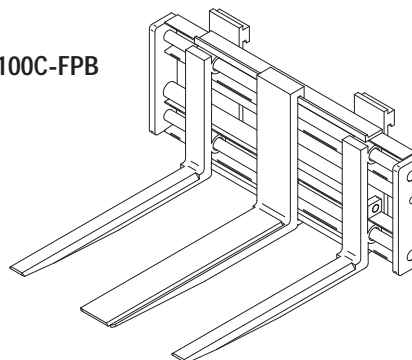
35C-FRG-64000



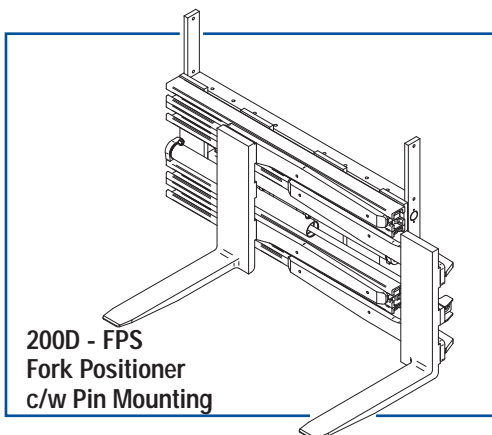
40C-FPS-SP



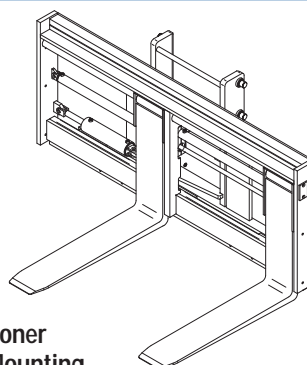
100C-FPB



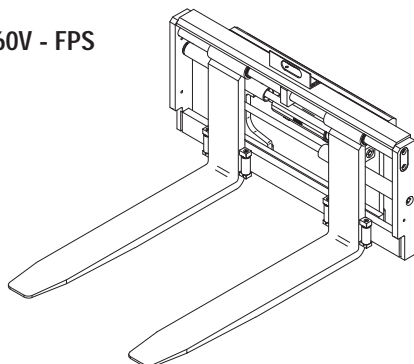
200D - FPS
Fork Positioner
c/w Pin Mounting



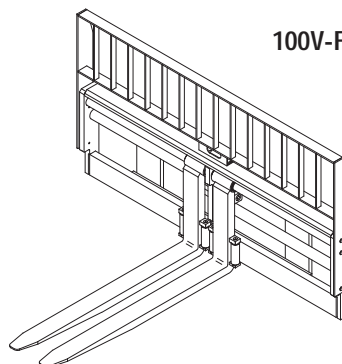
150J - IFS
Fork Positioner
Integral Mounting



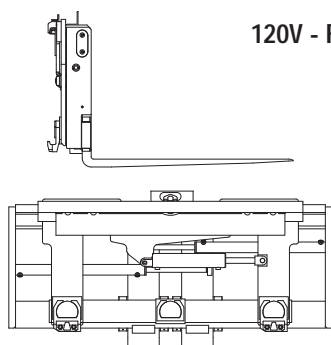
60V - FPS



100V-FPS

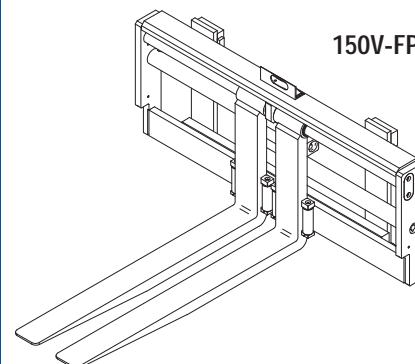


120V - FPS



V-Series S/S Frame

150V-FPB



"C" Spreader
Hold Down
Designed to
handle stack
of Steel plates



"C" Fork Positioner
Hold Down
Designed to
handle stack
of Steel plates



Frame Handler c/w Vertical Fork Adjustment
Designed to handle Truck Frames



"D" FORK POSITIONER



"C" FORK POSITIONER

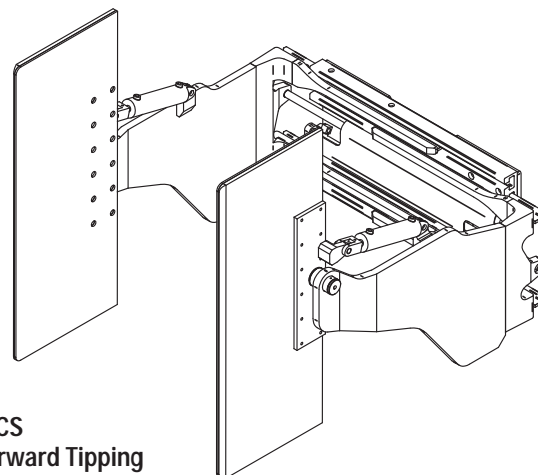
"C" ITA Poles



"C" Bob Cat
Mounting



120° Bin & Drum

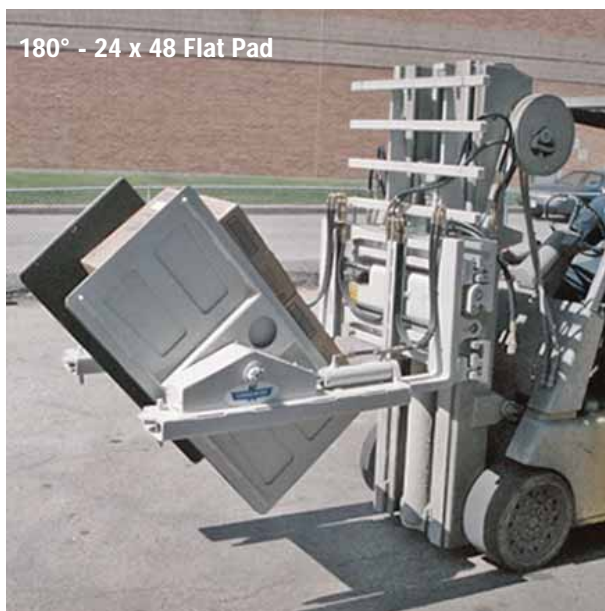


35D-CCS
90° Forward Tipping

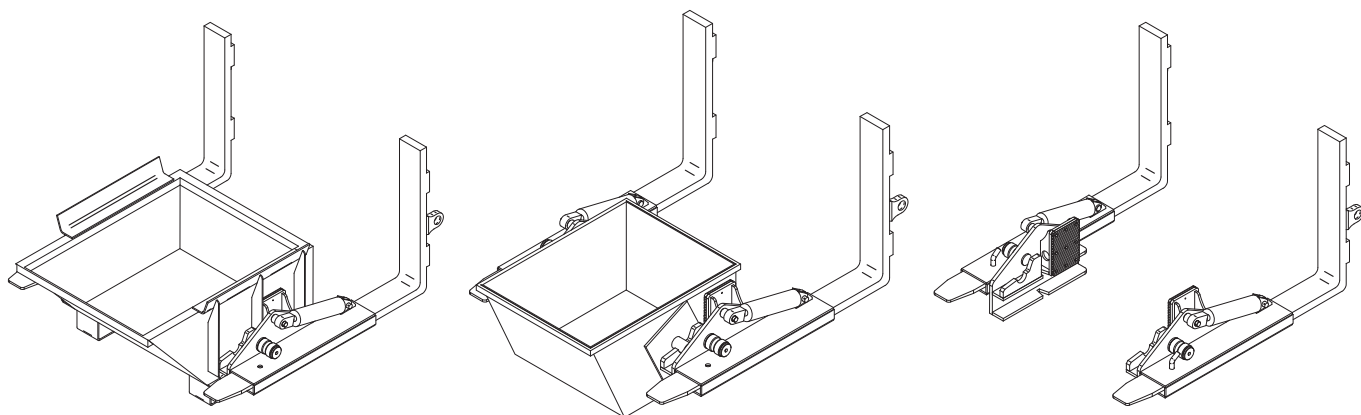
120° - Multiple Design



180° - 24 x 48 Flat Pad



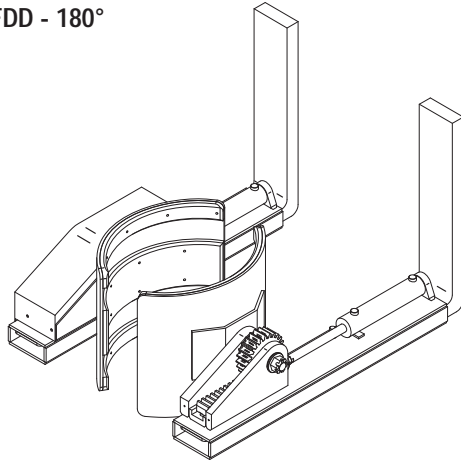
35D-FDD - Bin Dumper

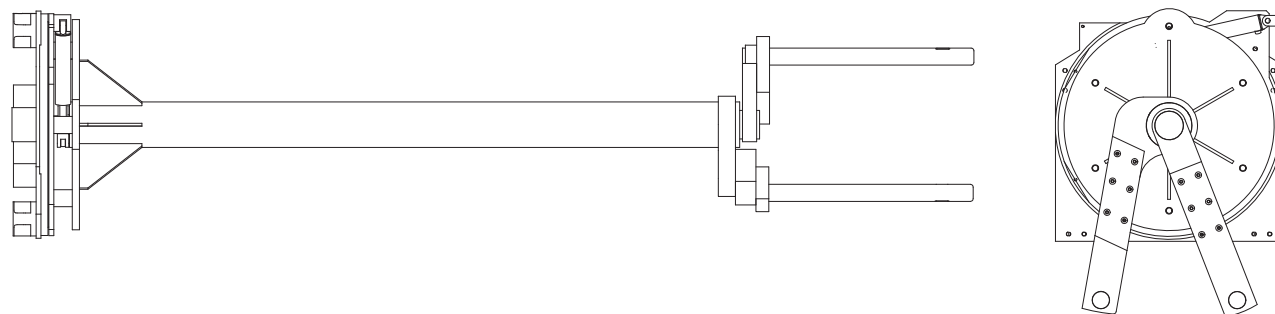


180° SST Arms on Crown

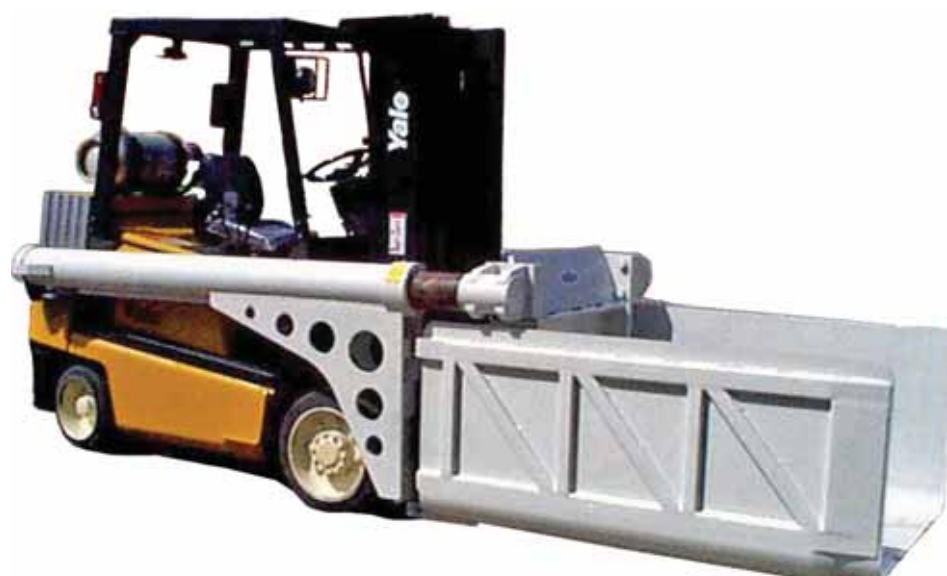
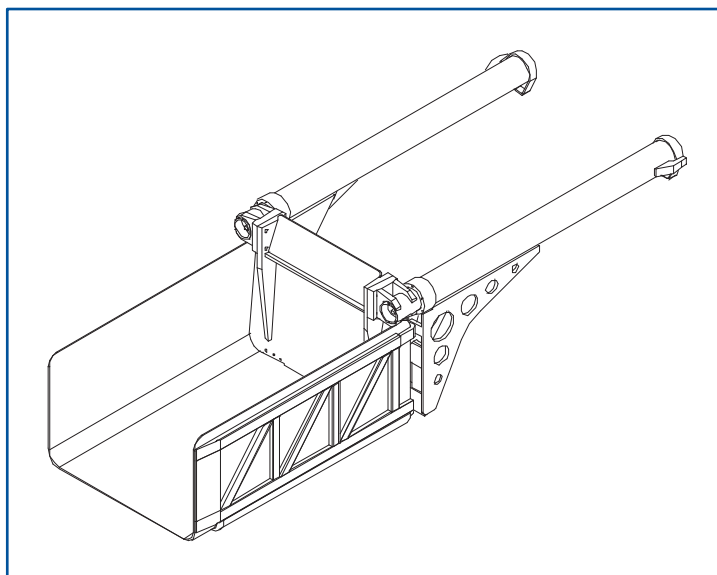


FDD - 180°





BAC - 30



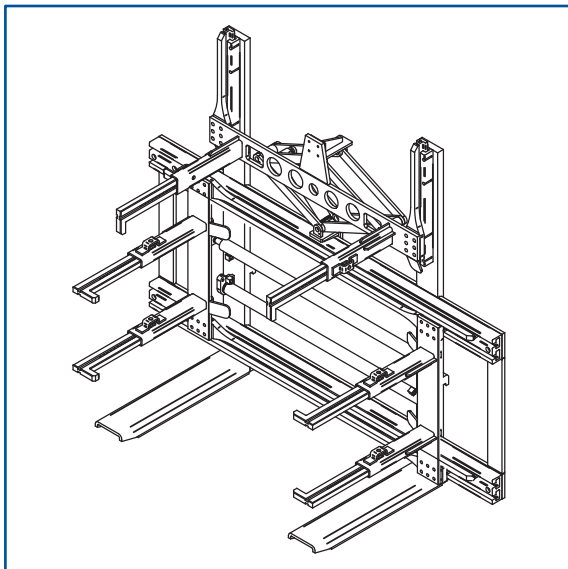


"Chrysler on Yale"

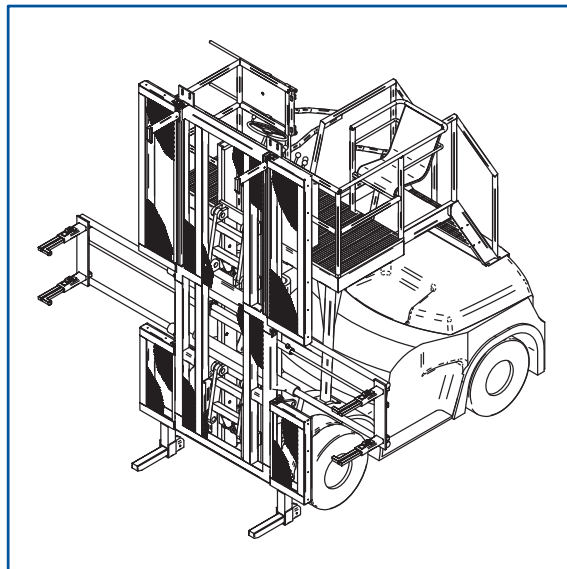
No Bucket

"Chrysler on Clark"

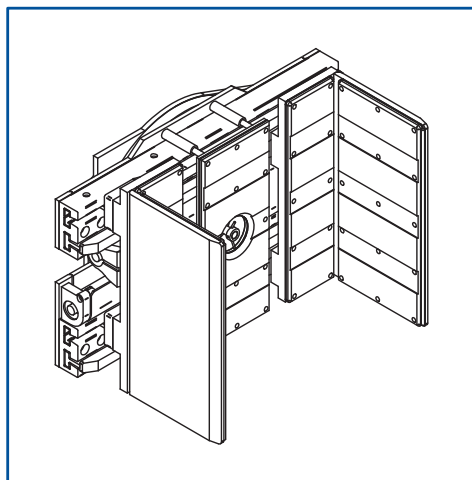




100C-MCB-SP
Glass Handler



100C-MCH
Glass Handler



70D-MCR-SP
Glass Handler

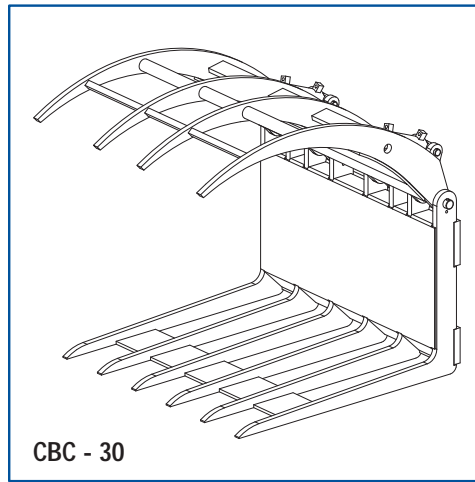




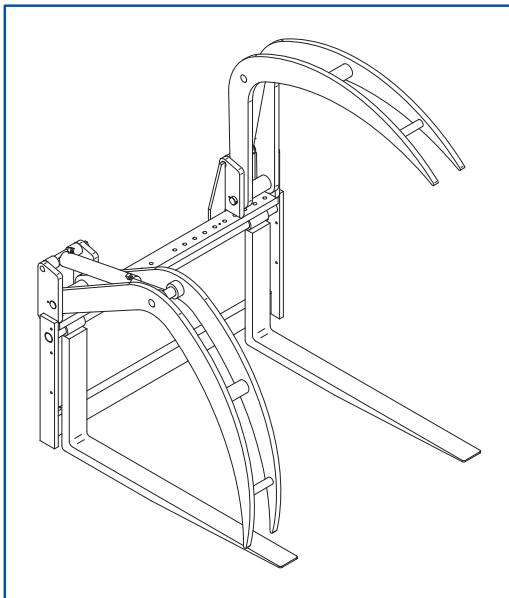
70D-MCR SP • Glass Handler
Glass Adjustable Foot



Bale Grapple



CBC - 30



70C-GRP-63881



50C-GRP



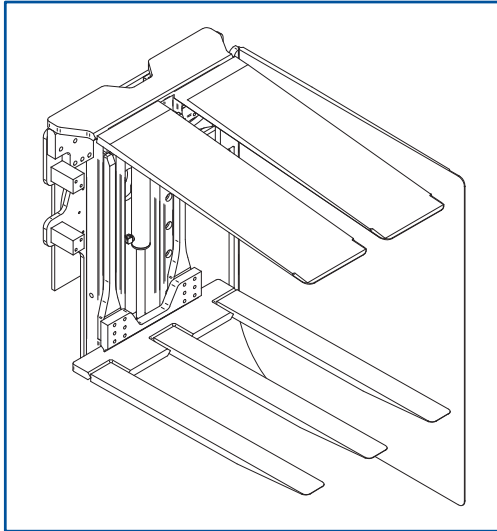
100C-GRP-62715



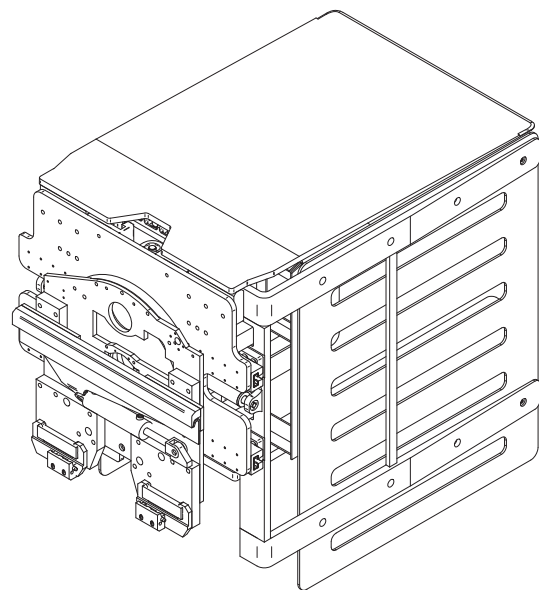
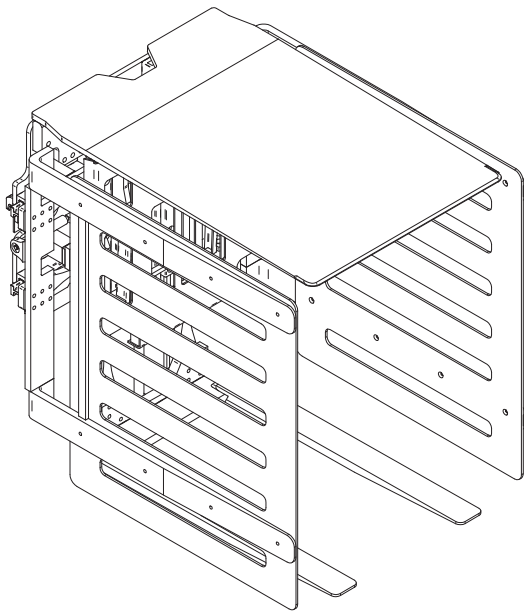
Scrap Grapple



45E-IVP

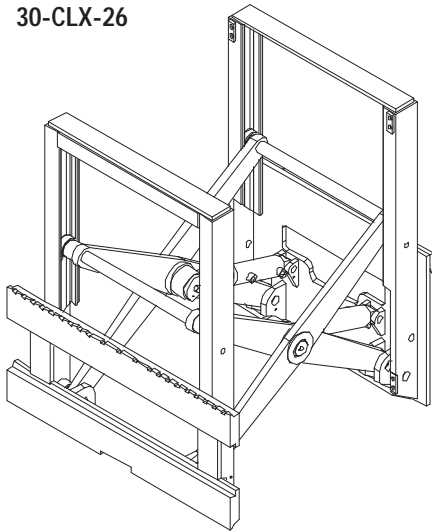


The Inverta Push is a very unique attachment that can clamp, rotate, sideshift, push, pull and stabilize loads. Each unit is custom designed to suit a specific application.

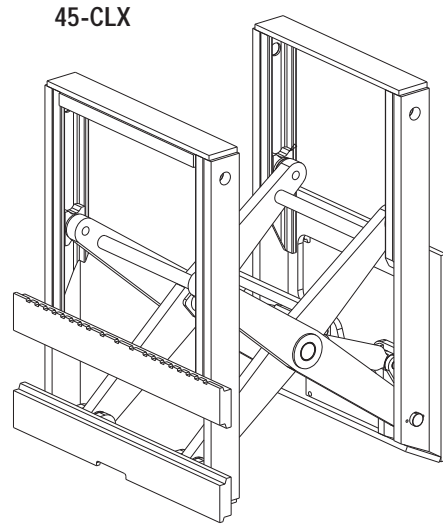




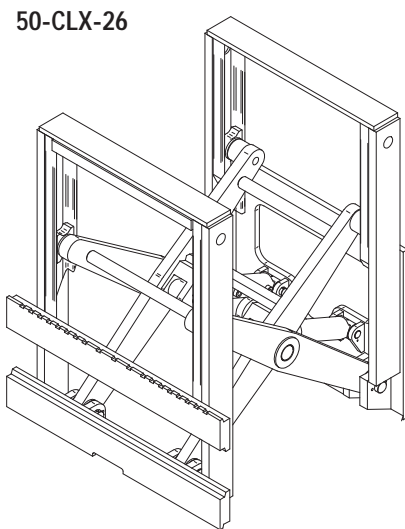
30-CLX-26

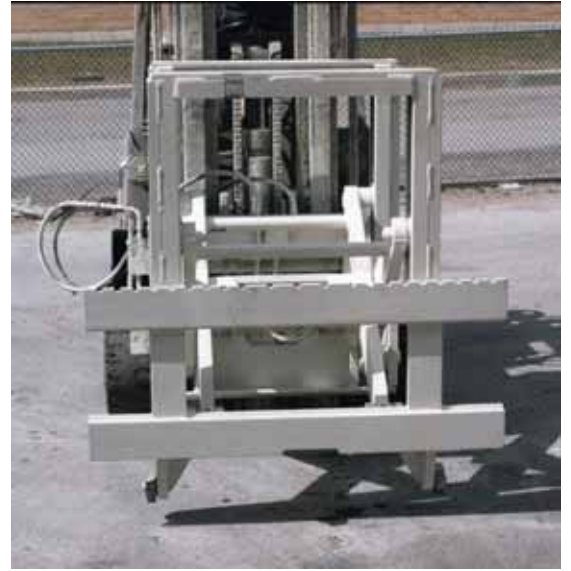


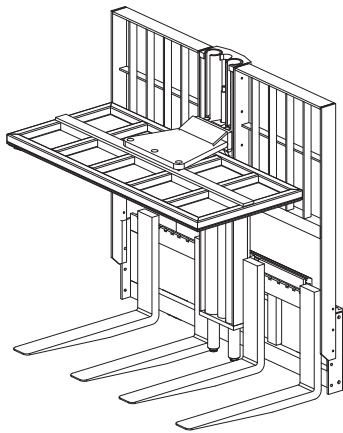
45-CLX



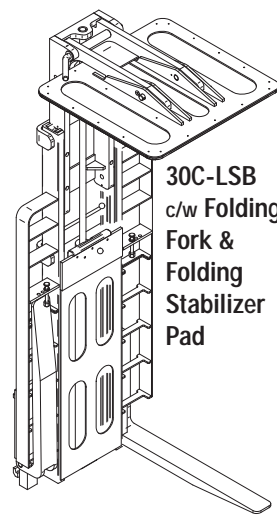
50-CLX-26







60-LST c/w LBR



30C-LSB
c/w Folding
Fork &
Folding
Stabilizer
Pad



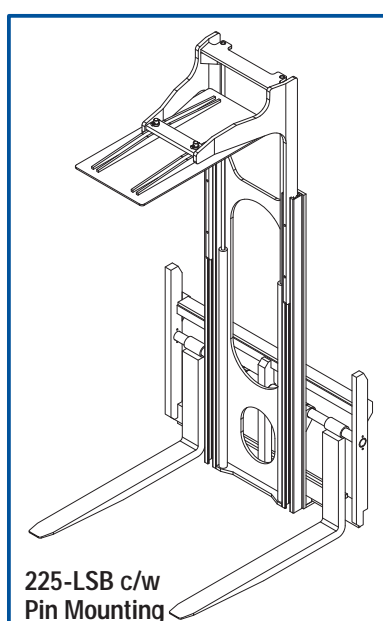
Hold Down on
Independent
Fork



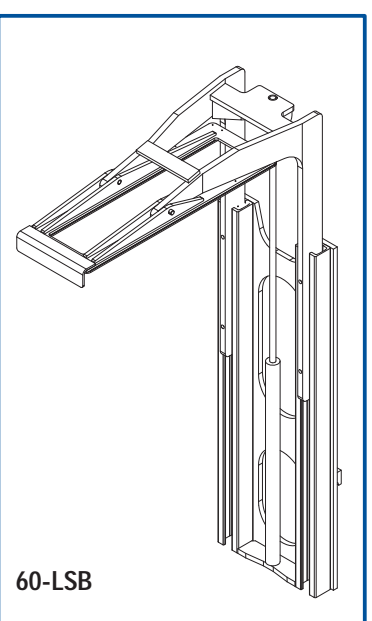
Hold Down on
70D False
Carriage



Hold Down Even with Forks



225-LSB c/w
Pin Mounting

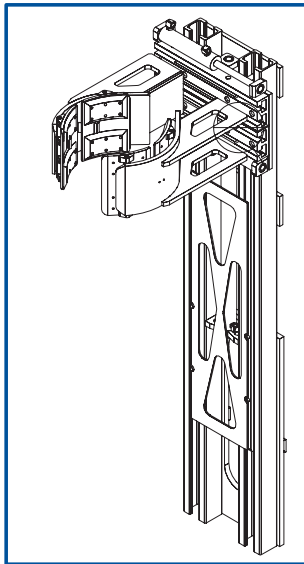
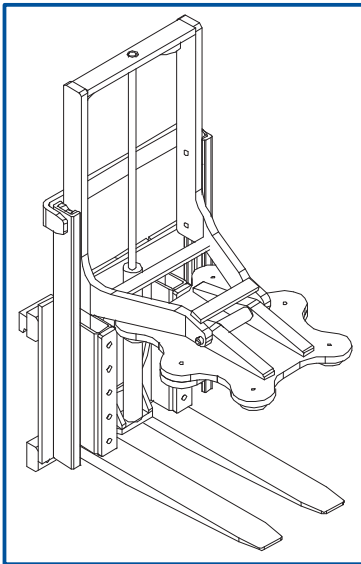


60-LSB

25D - On Crown 90° Forward



60-LSB c/w
Articulating
Pad



50C-LSB
Transformer



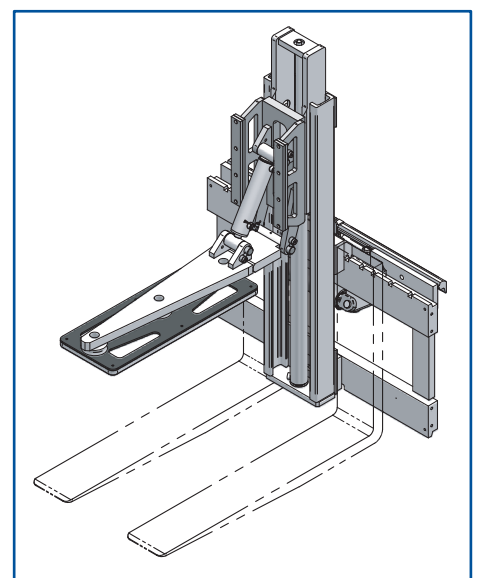
Hold Down on Single Double

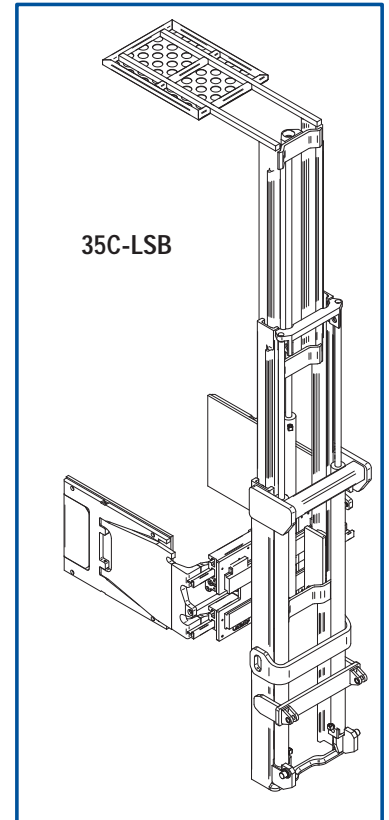


Hold Down
Folding Fork

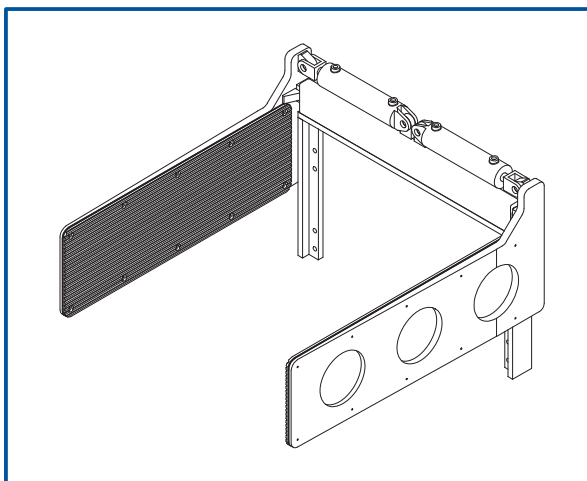


120C-LSB-61125

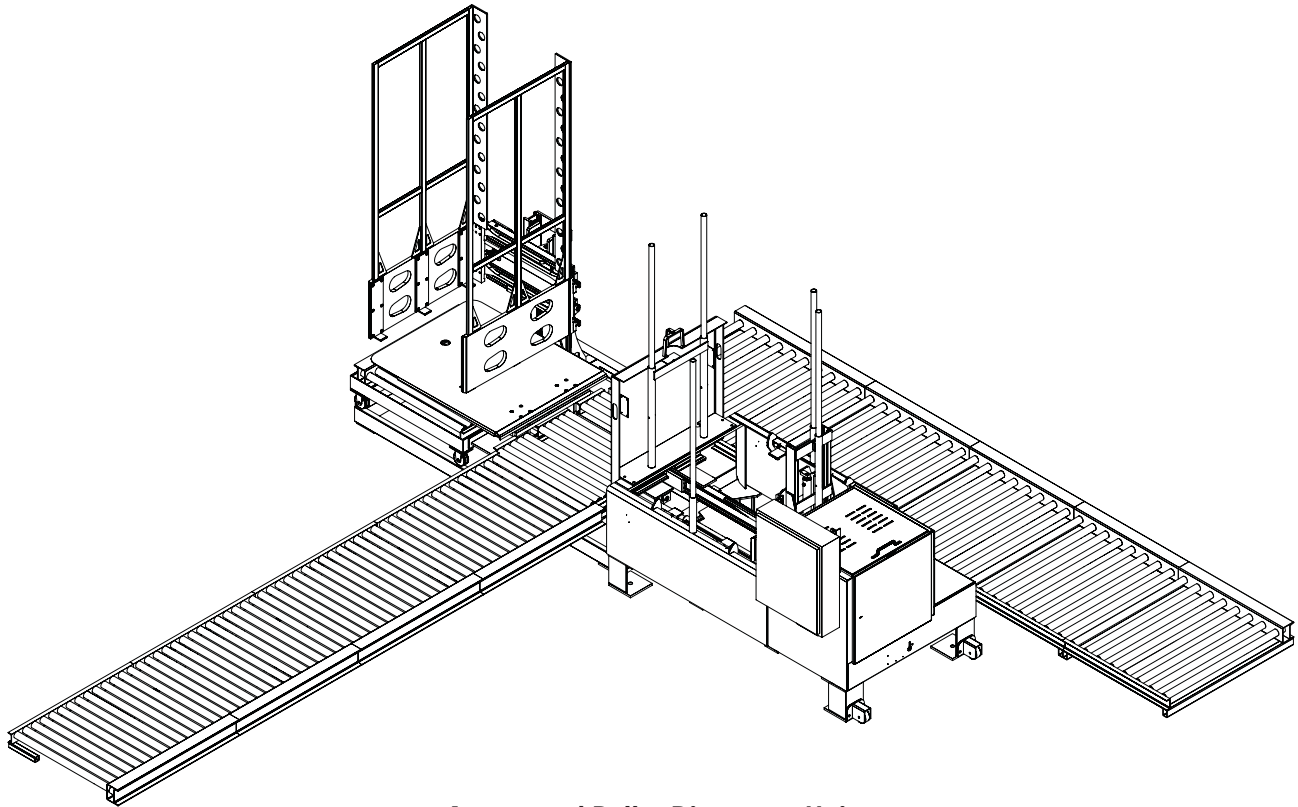




Chain Drive



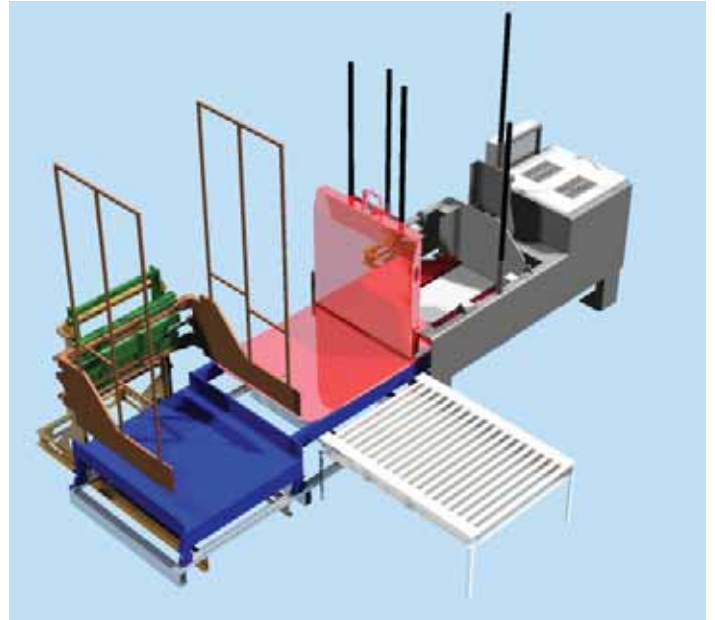
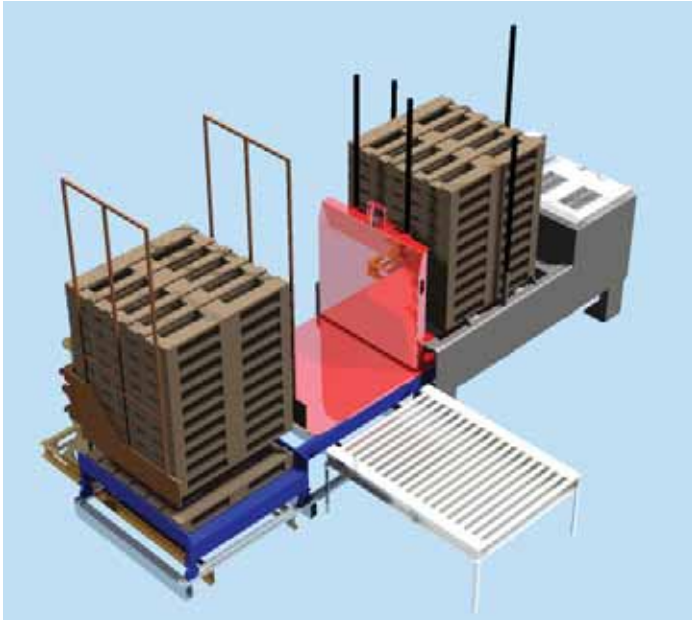
Side Stabilizer



Automated Pallet Dispenser Unit



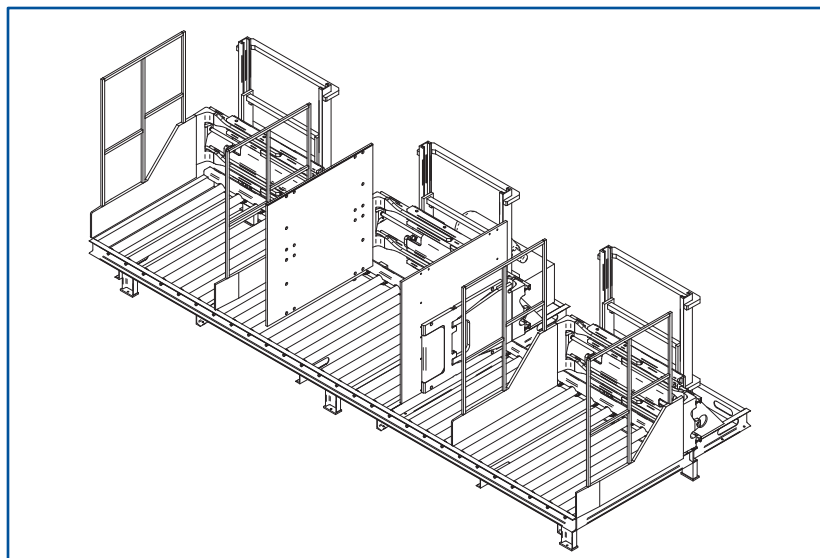
Automated Pallet Dispenser Unit



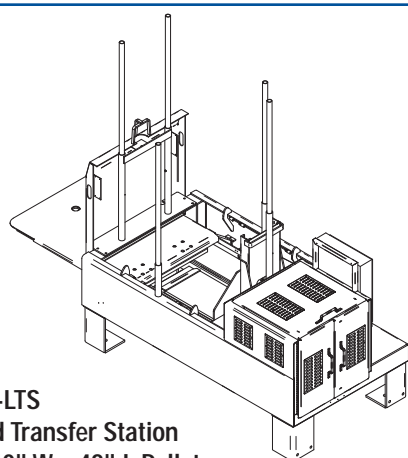
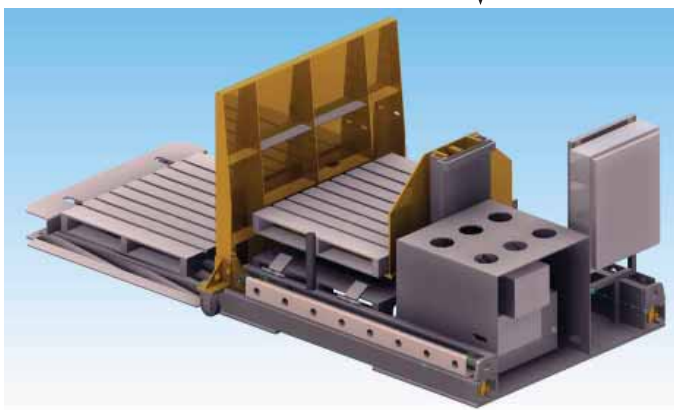
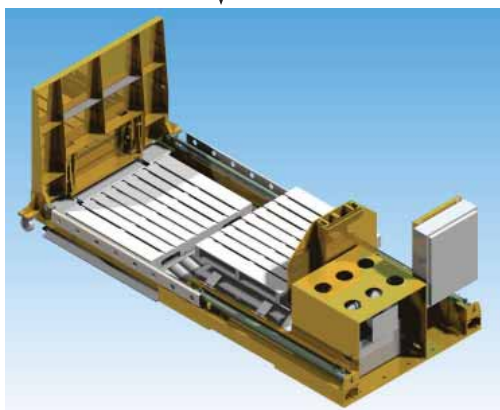
Load Transfer Station



Pallet Replacement System
220" Long x 50.25" Wide



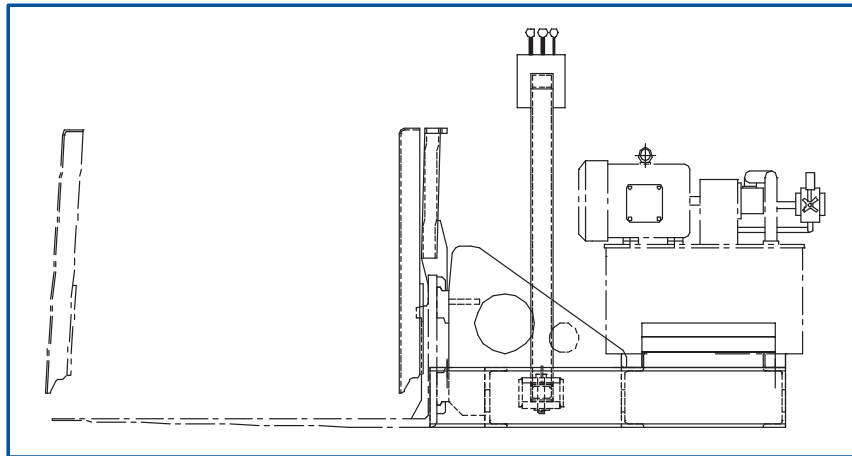
Semi Automated Pallet Transfer



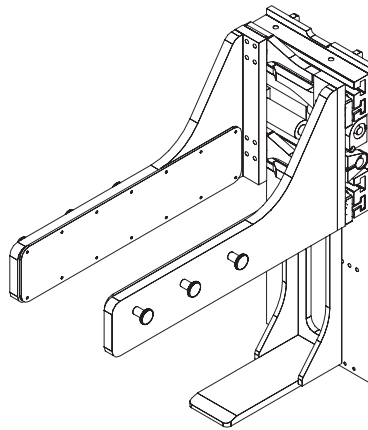
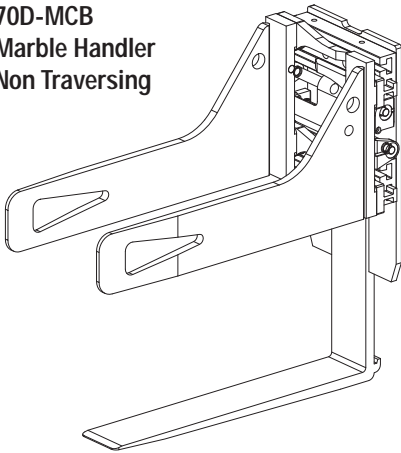
40A-LTS
Load Transfer Station
for 40" W x 48" L Pallet



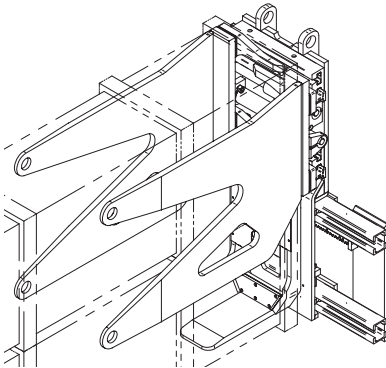
Stationary Stand with Load Push
Designed to push load from Pallet to Pallet.
Stand with Power Pack and single function controls.



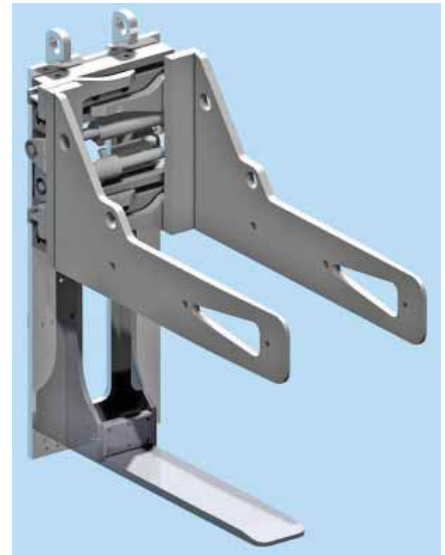
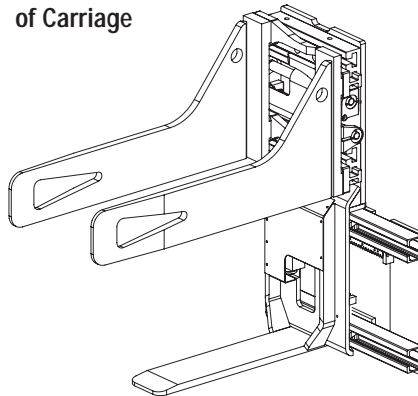
70D-MCB
Marble Handler
Non Traversing



70D-MHT
Double Stacked / Finished Marble



Marble Handler
S/S Cross Face
of Carriage

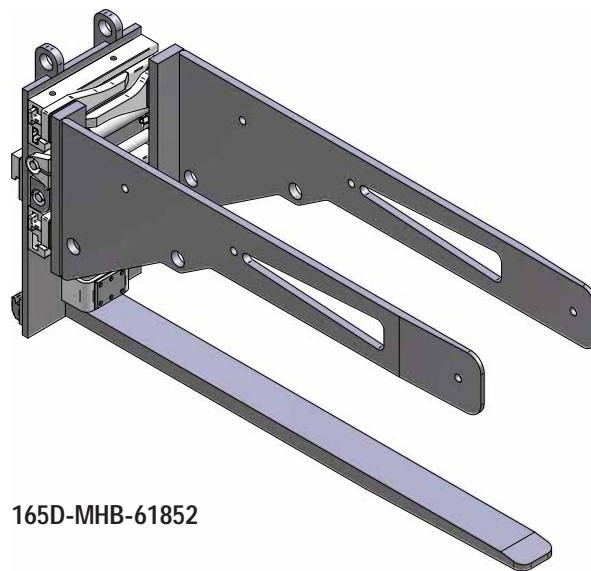


Traversing





165D-MHB
Special design to
pick up complete load

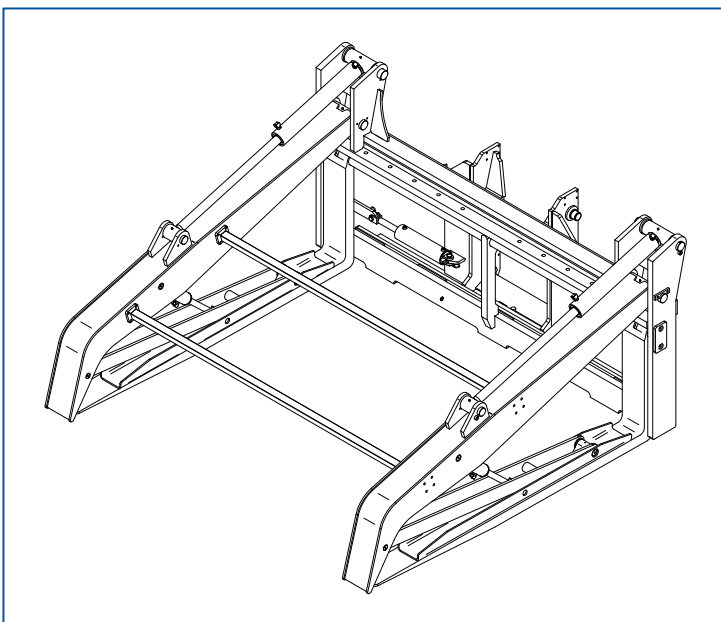


165D-MHB-61852

Specially designed clamping arms mounted on top of carriage. The arms fold down on the pipe/poles to secure and prevent load from rolling off or tipping sideways. When not required, the arm assembly pivots to the full vertical position so the truck can be utilized for typical loads. The hold down arm assembly consists of two sections, the main arm and the inner pad. Two hydraulic functions are required to operate the arm assembly. First function activates the main arm up and down. The second function is required to activate the inner pad which provides the clamping. This arm design offers the most versatility for handling various diameters and lengths. This type of attachment can be offered in a few different ways. As with all special application designed units, detailed load information is required to determine the features for each attachment.

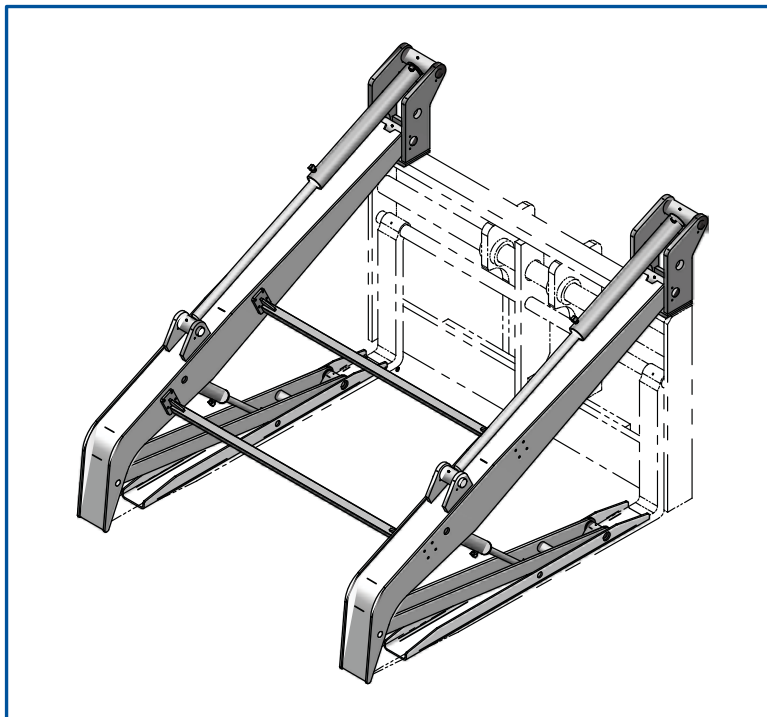
1. Complete Carriage with Hold Down Arms

- Integral mounting for increased capacity.
- Designed for trucks 8,000 lbs to 36,000 lbs Capacity
- Sideshifting frame and hydraulic fork positioning available.



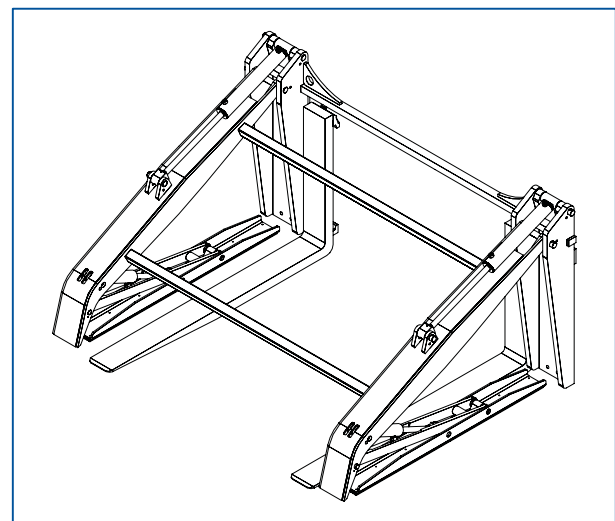
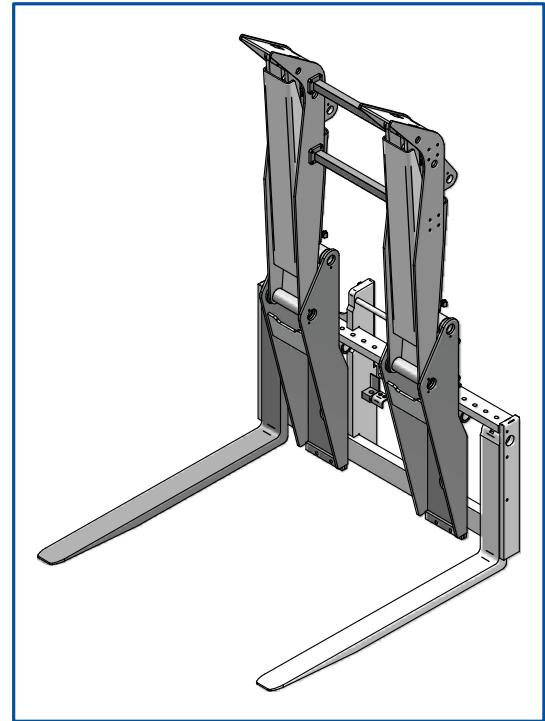
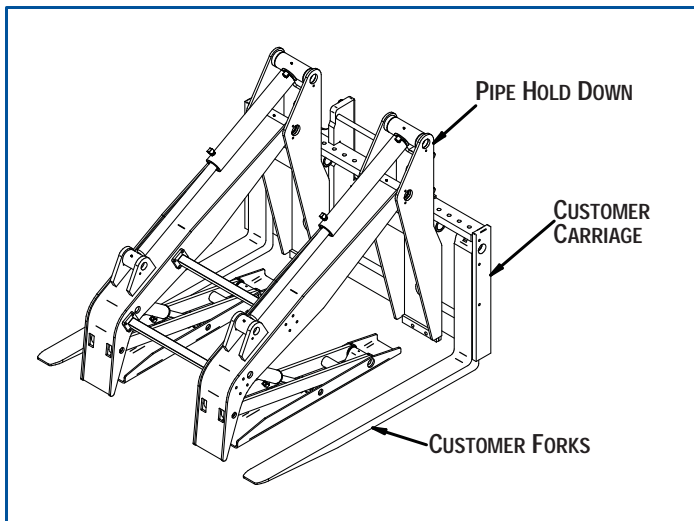
2. Weld-On Hold Down Arms

- The hold down arm assembly only can be offered for field installation. Welding instructions are provided based on truck carriage details.



3. Hang-On Hold Down Arms

- The hold down arm assembly only can be offered for field installation as a hang-on to fit ITA hook type or shaft type carriages.



4. Single Function Pivot Arm Design

- This design offers a single function hold down arm with a pivoting bar to hold down load.

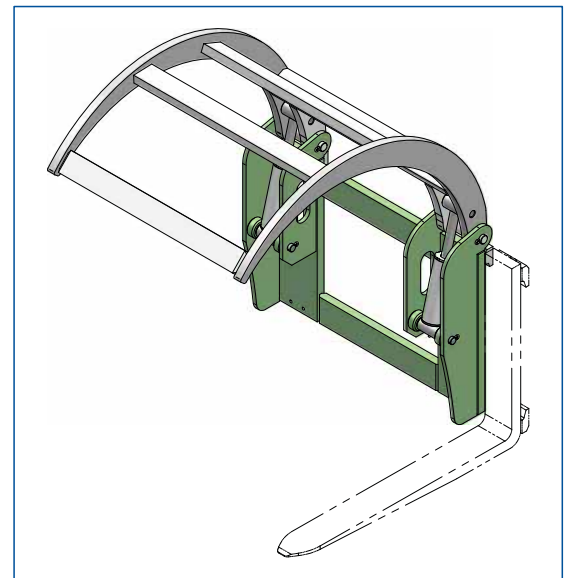
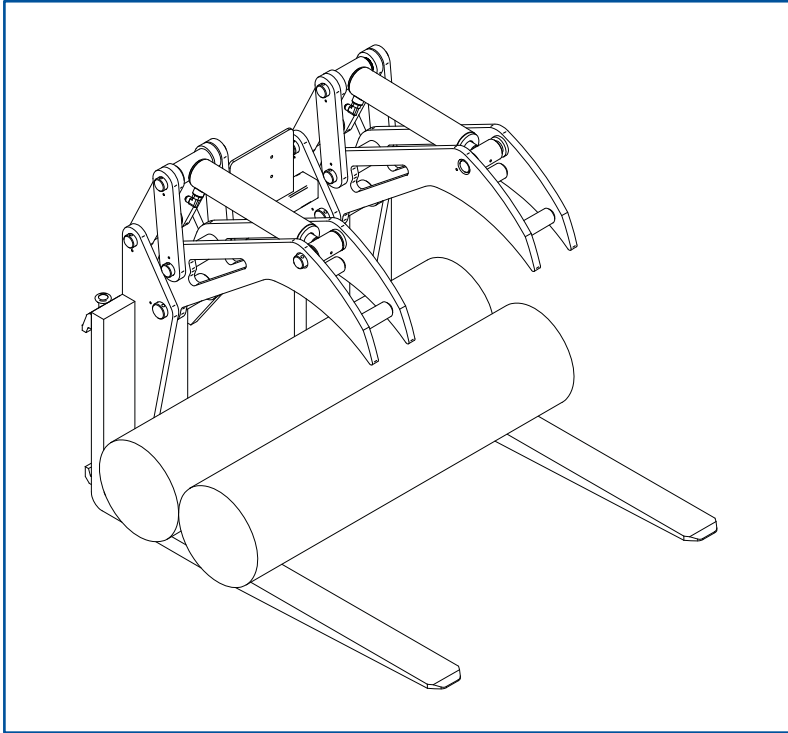


80C-PHD-63338



5. Grapple Type Arm Design

- This design offers a single function hold down arm to retain and secure load.





Bean Pusher with Clamp



Insulation Handler



Pusher with Clamp



On Rotator



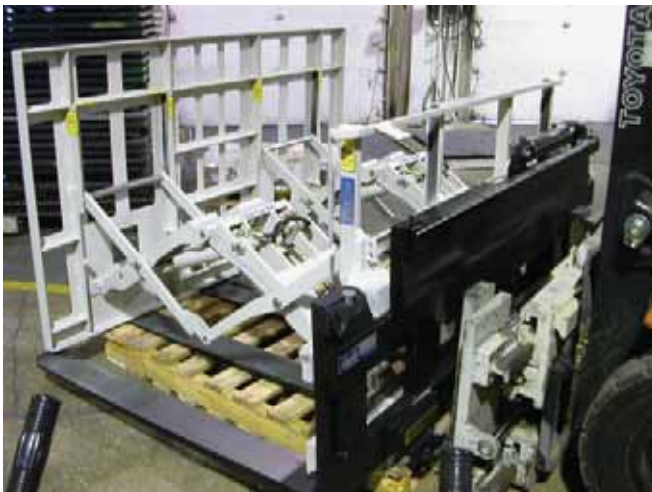
Bean
Bag
Pusher



Pusher &
Single/
Double



Pusher with Vertical Broke Clamp



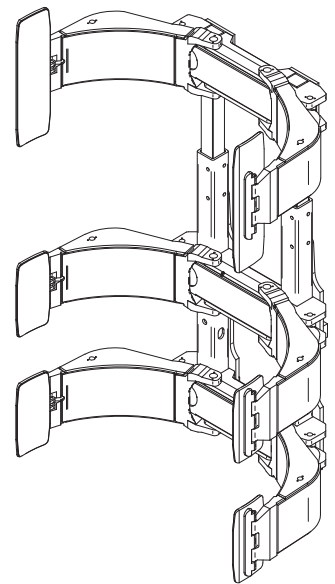
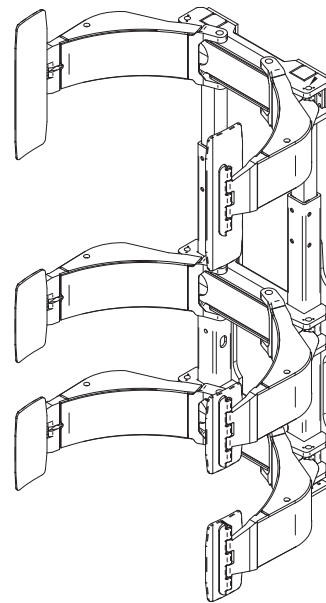
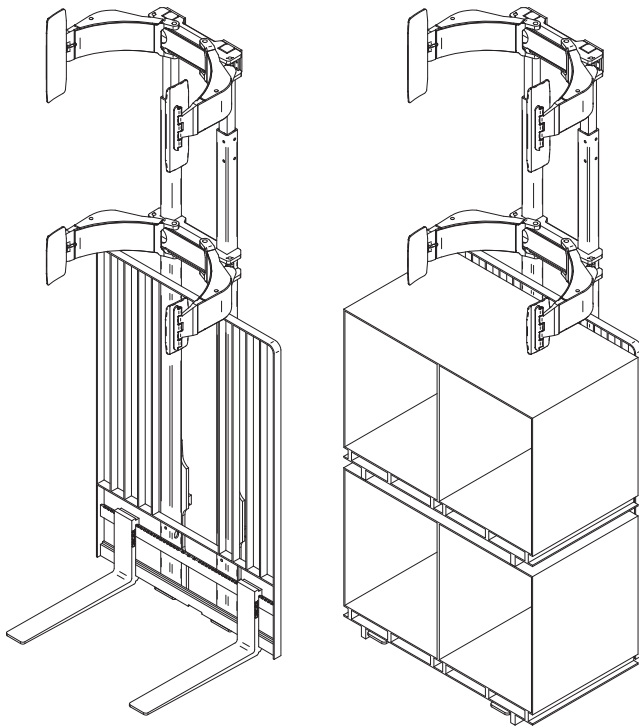
Pusher
Side
Stabilizer



Load / Roll
Tower Clamp

60F - TCS

80F - TCS



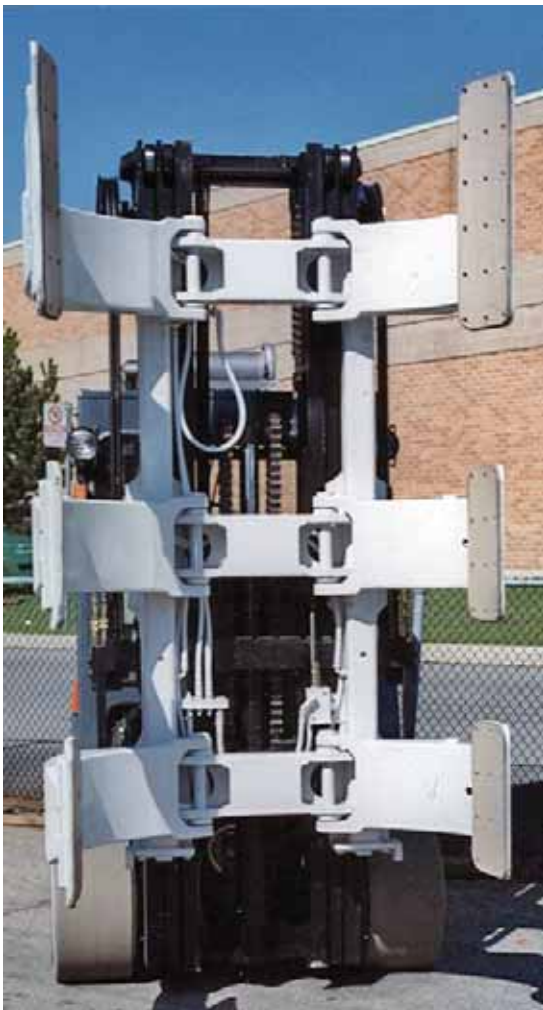
25F



Single Tower- Adjustable Top Arm



100F-RCQ 4 Roll

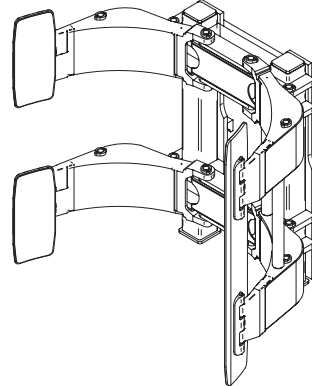
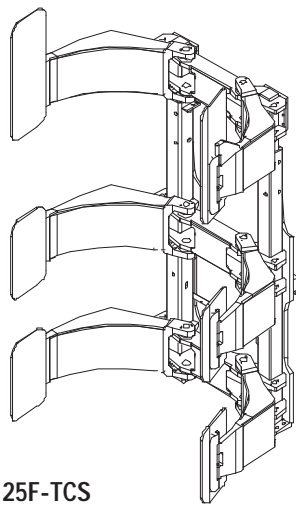


Non Rotating
Split

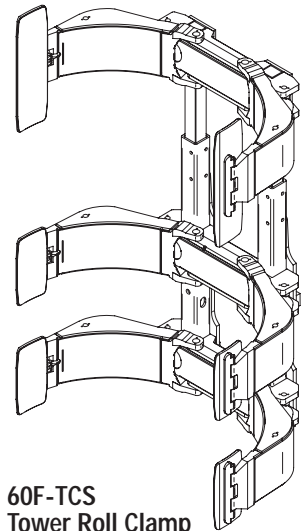




25F-TCS
Tower Roll Clamp

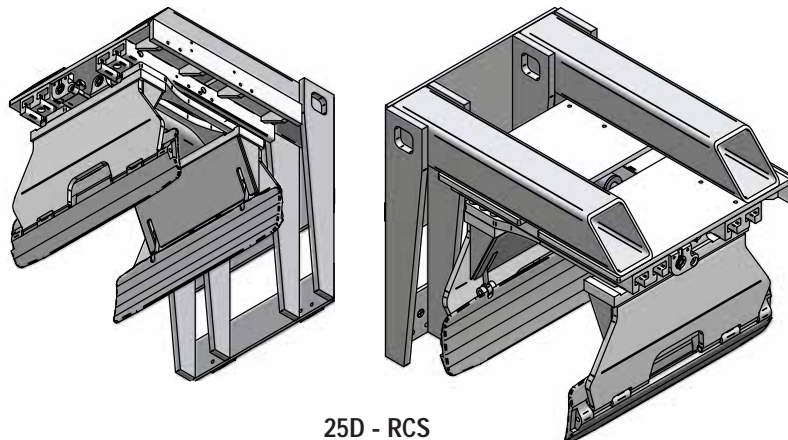
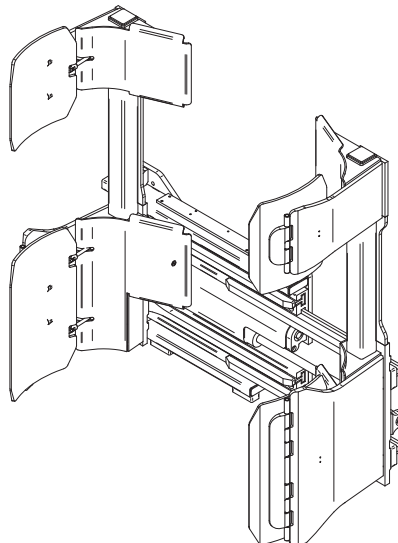


45F-RCP
Single Paper Roll Clamp



60F-TCS
Tower Roll Clamp

50D-RTR-36/41
2-Roll Clamp Rotating



25D - RCS

150F - RCP



25F - RCQ



Portable Roll Slitter



66D - RTR



100F - RCQ



Portable Roll Slitter



80D - RTR



100F - RCQ



Roll Scoop



80D - UKD



100F - RCQ



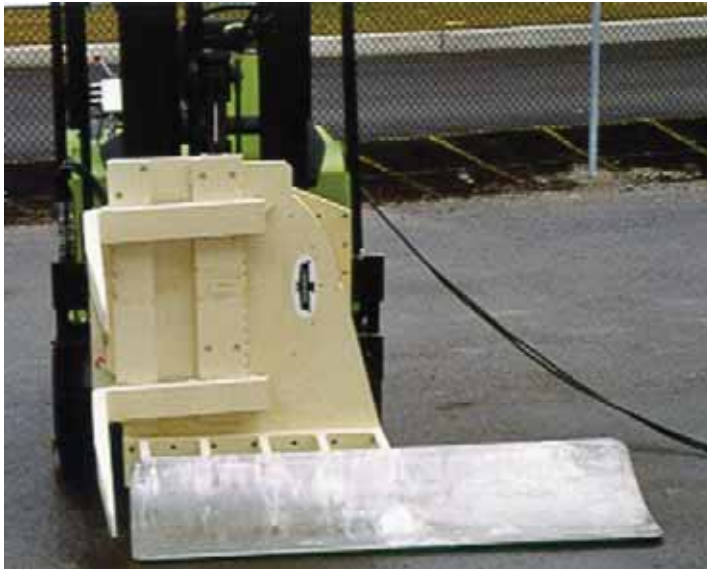
Roll Guard



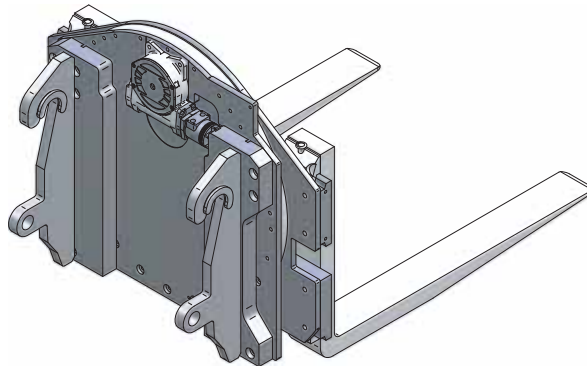
Rotator with Side Arm



Walkie Modified to handle Roll in bilge position



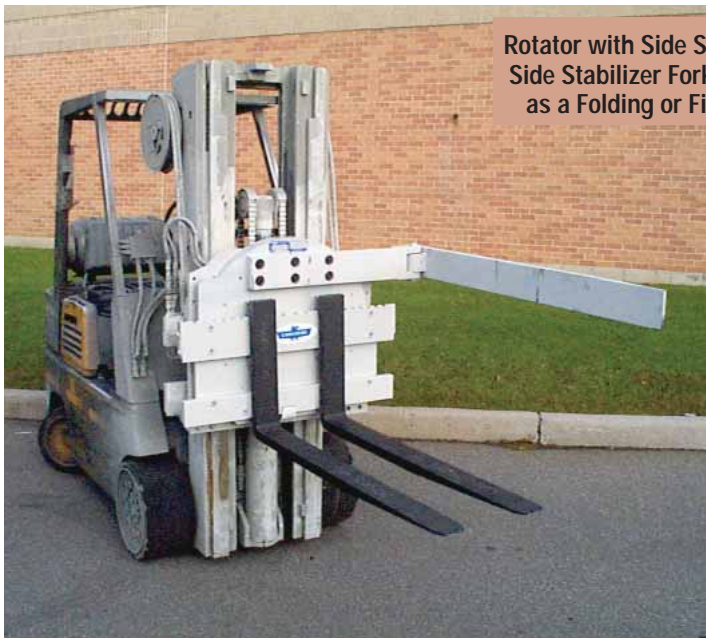
120D-RRB-61472
Rotator with special
QD Hook Style Mounting



Rotator with Visibility Hole



Rotator with Side Stabilizer Fork
Side Stabilizer Fork is available
as a Folding or Fixed Design







Fork Clamp with special Forks to handle Gypsum Slip on Poly Backs are required to protect Gypsum sheets



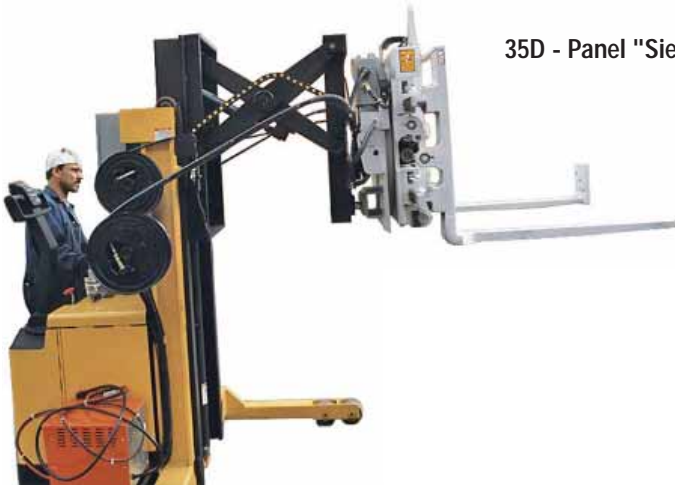
Mandrel Clamp



Drop Bottom
Box Dumper



35D - Panel "Siemens"



200D - Car Handler



Bread Tray Handler



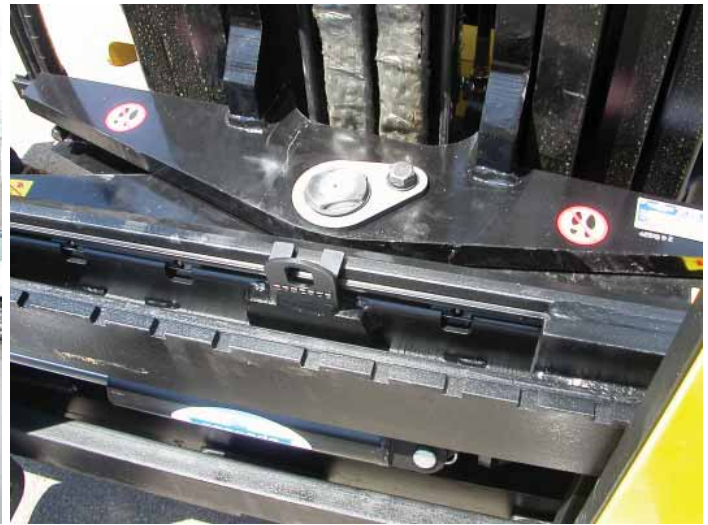
100C-SLP-60024

Slope Piler Carriage with 10° of total side tilt.



155C-SLU-61122

Slue Carriage with 6° of total in / out tilt



Tobacco

Special Attachment solely designed for handling Tobacco.



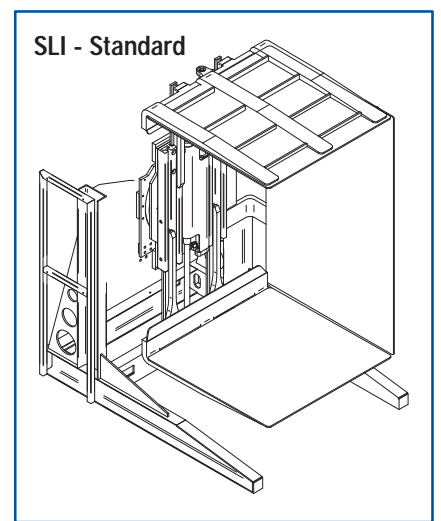
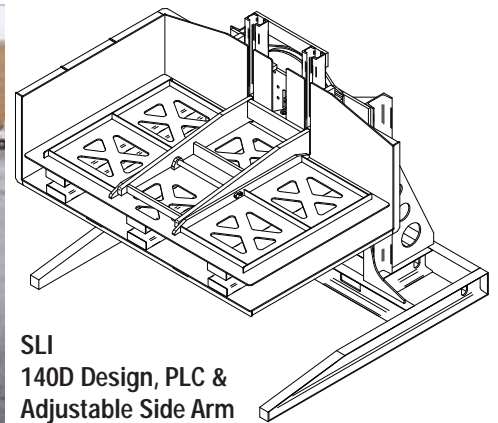
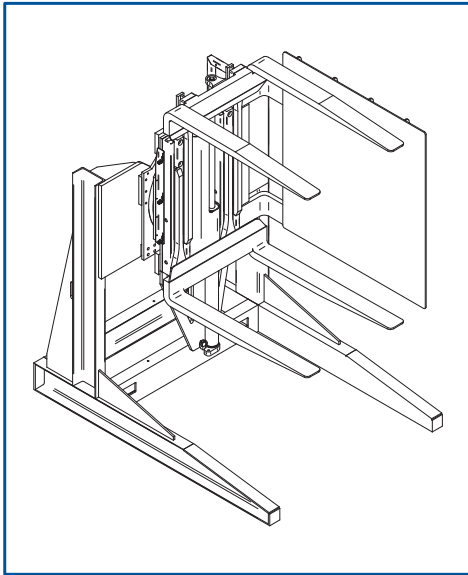
55C-SPC-63696 - Snow Plow Attachment.
Also available as a Fork Pocket Mounting.
Various widths & design

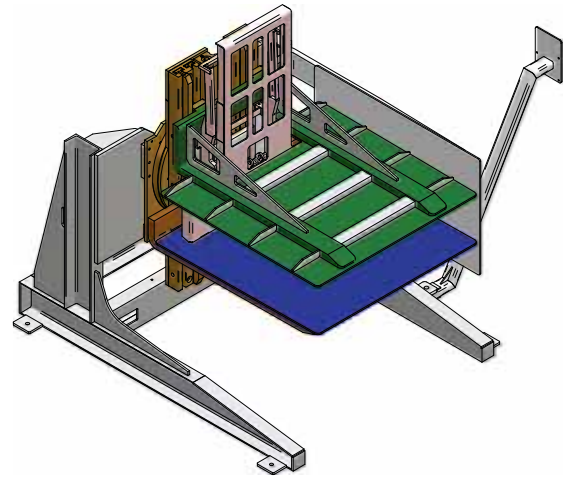


Special Lifting Blade Attachment
for handling Appliances
with "Folded Cap" packaging.



SLI with PLC & Photo Eyes

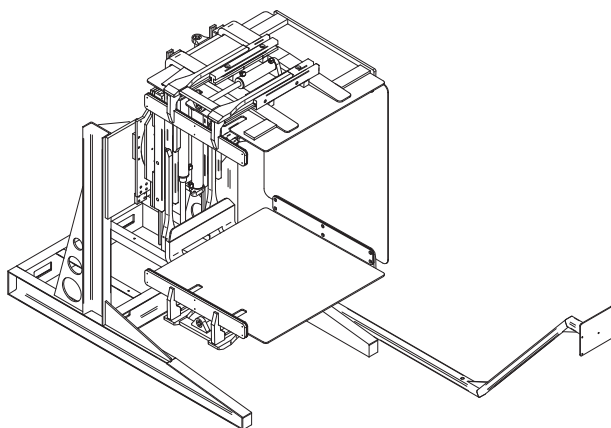




SLI with Pusher



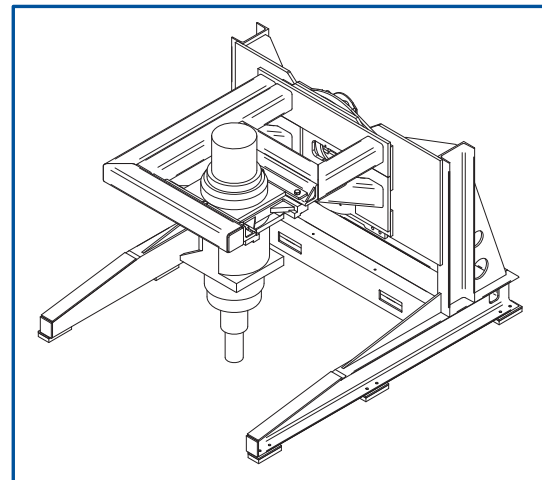
SLI Pallet Retention
Pallet Retention Mechanism retains
Top Pallet when load is inverted.



"Floor Loading" design allows loading and unloading using Hand Pallet Jack



SLI - Adjustable Side Arm

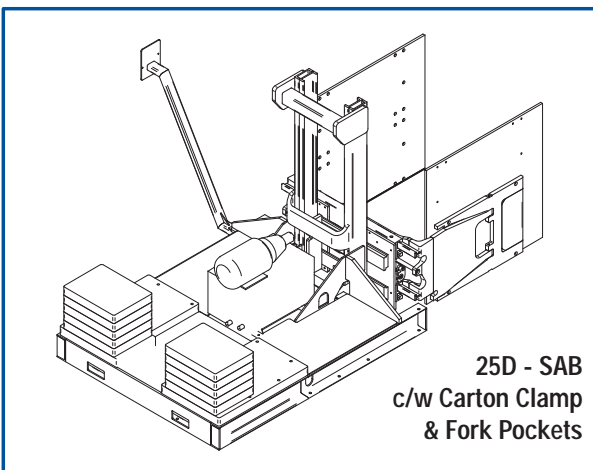
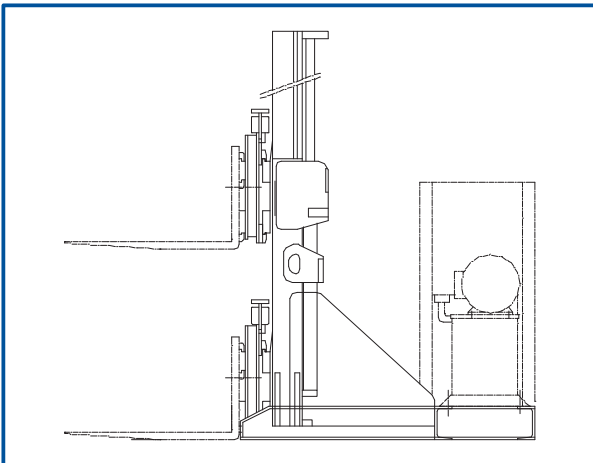
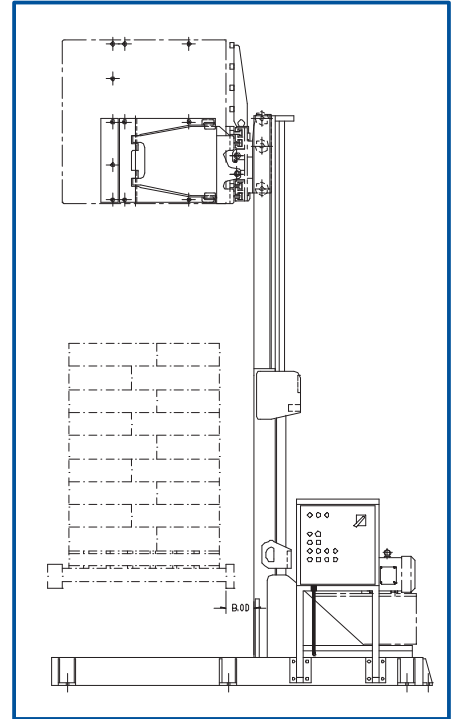
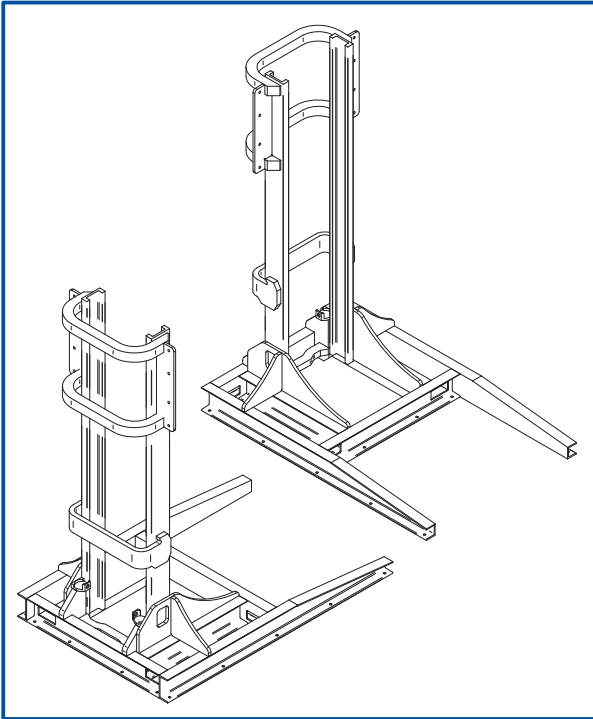




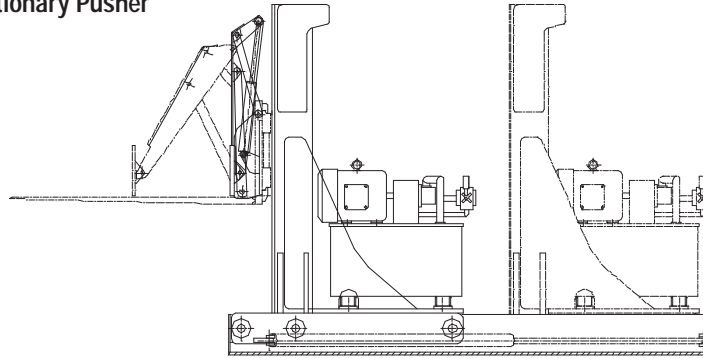
Stationary Load Inverters

Most Stationary Load Inverter are custom designed.
Many features are available such as:

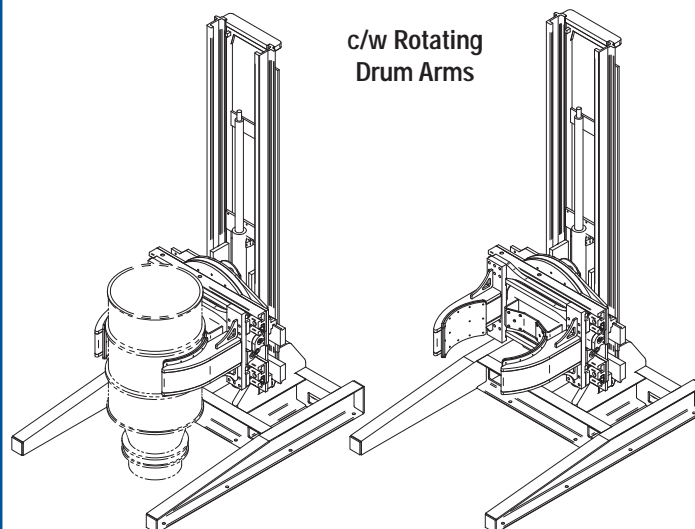
- Fully Automated Controls
- Safety Photo Eyes
- Pallet Retainers
- and Adjustable Pressure Settings

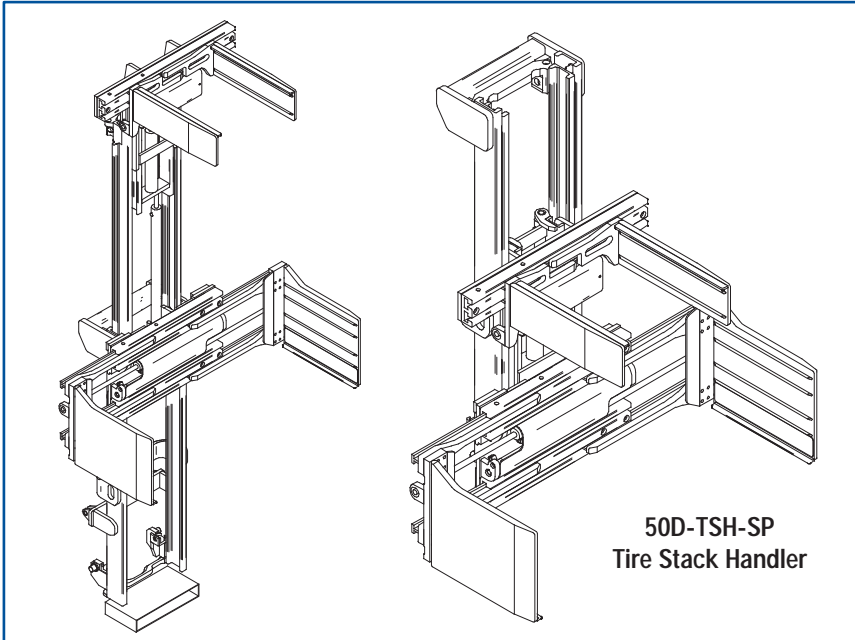


Stationary Pusher

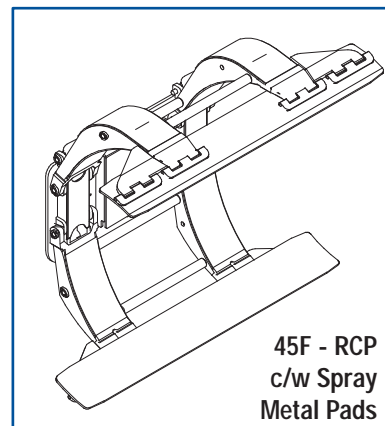
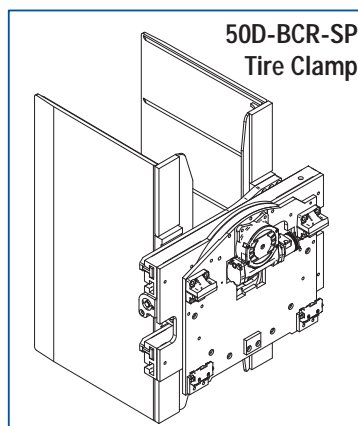


c/w Rotating
Drum Arms

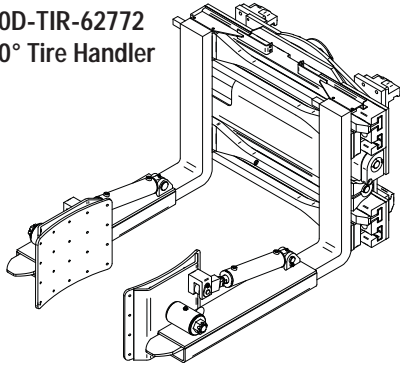




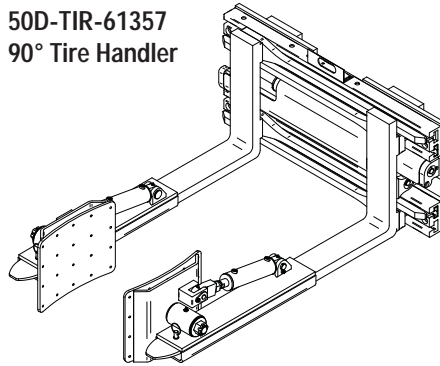
Designed to clamp down
and stabilize stack of Tires
for Load Trailers or Containers



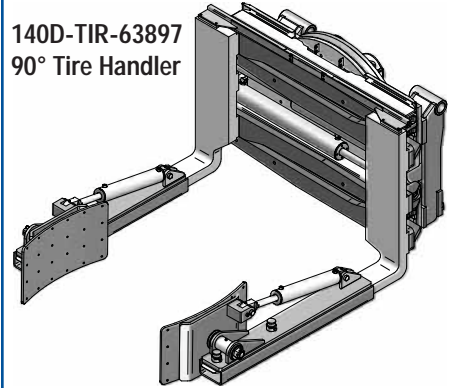
70D-TIR-62772
90° Tire Handler



50D-TIR-61357
90° Tire Handler



140D-TIR-63897
90° Tire Handler



Slip On Tire Handlers

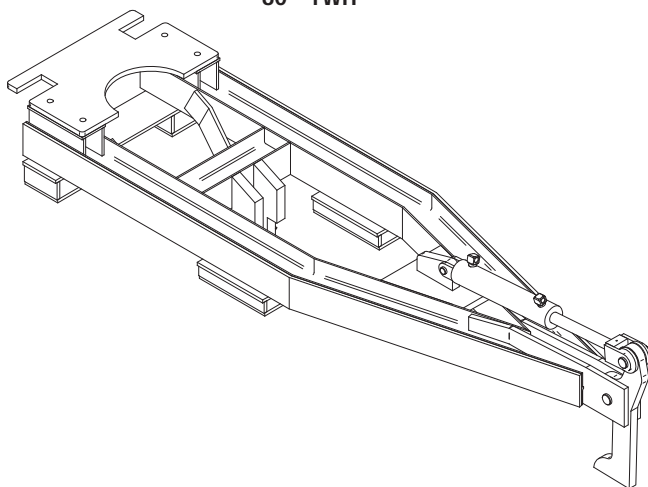




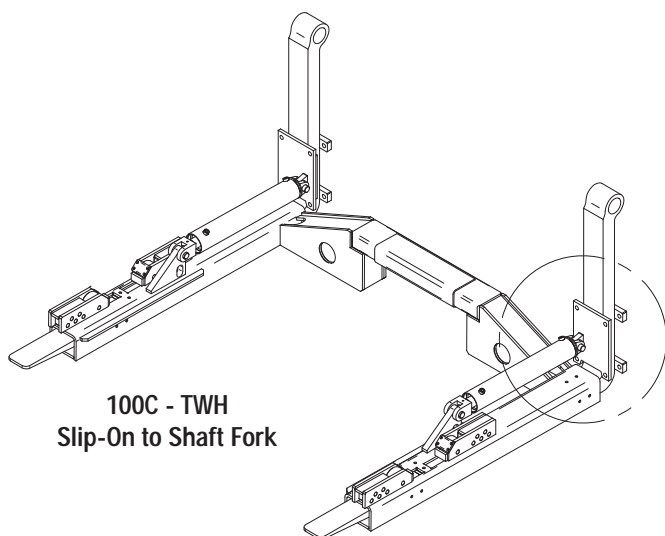


Dedicated Tire Handlers are available for capacities ranging from 6,600 lbs to 33,000 lbs.
Tire and Rim combinations

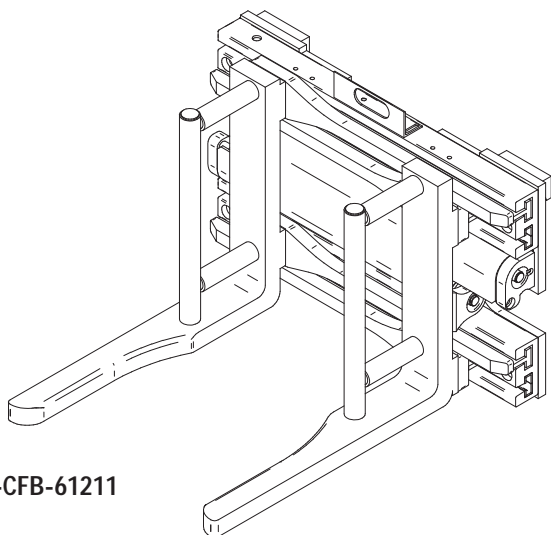
80 - TWH



100C - TWH
Slip-On to Shaft Fork

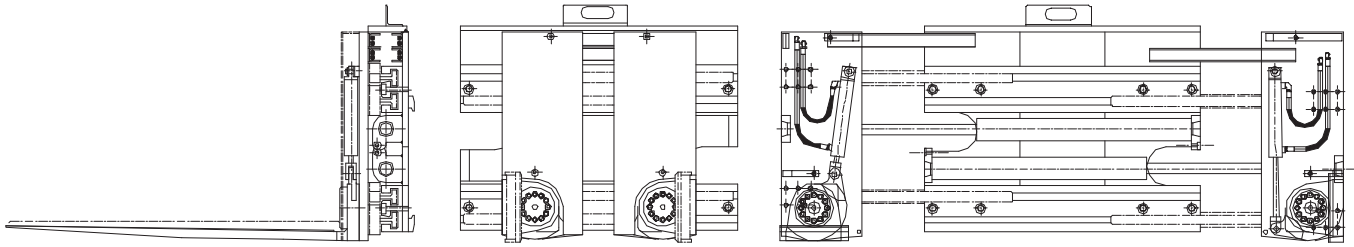


50D-CFB-61211



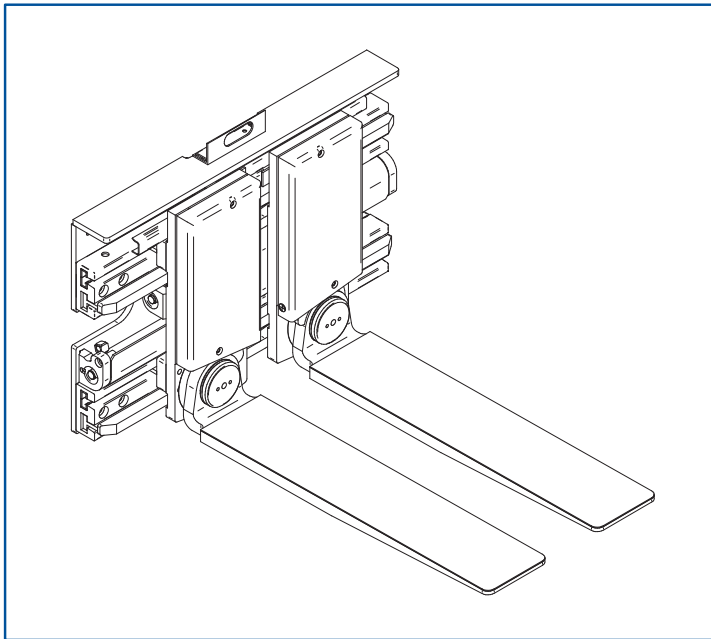
Various designs available to wheel only, wheel axle assembly or complete drive wheel assembly.





40D - HTS - Hydraulic Turnafork

Turnaforks with hydraulically actuated Arms offer the ability to position the Arms in any angle from horizontal to vertical.

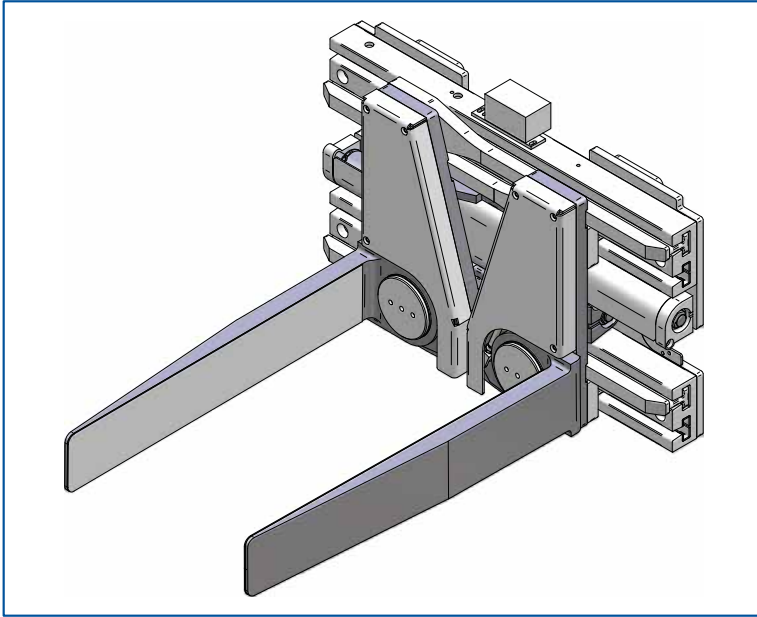


40D-HTB-61453

35D-TMS-61735
Manual Turnafork





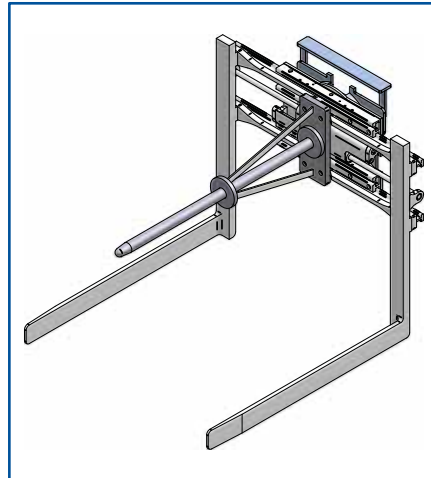
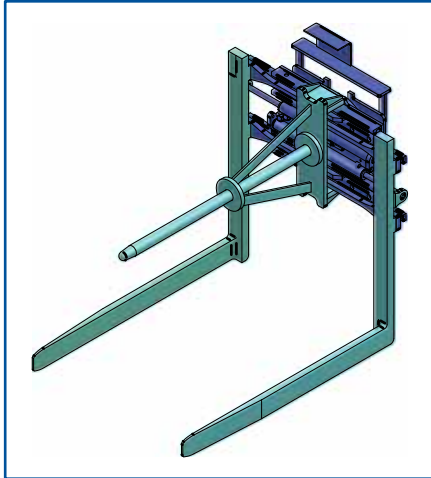


70D-HTS is the Heavy Duty version Turnafork. Custom designed Arms to handle various loads such as large Tires.

70D-HTS-62887

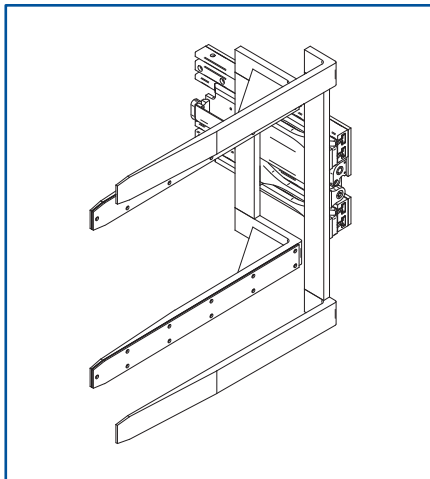




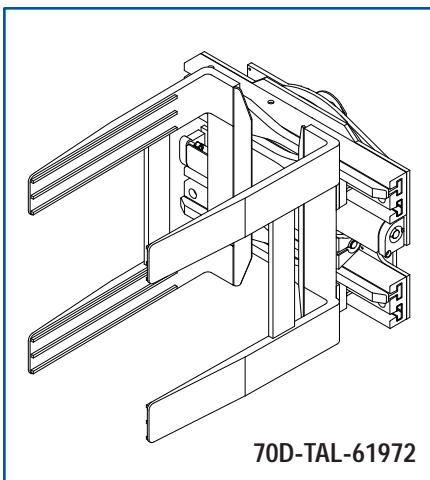
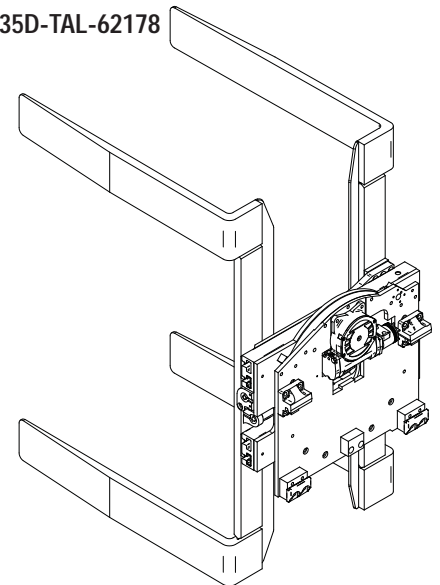


25D-TAL-63378

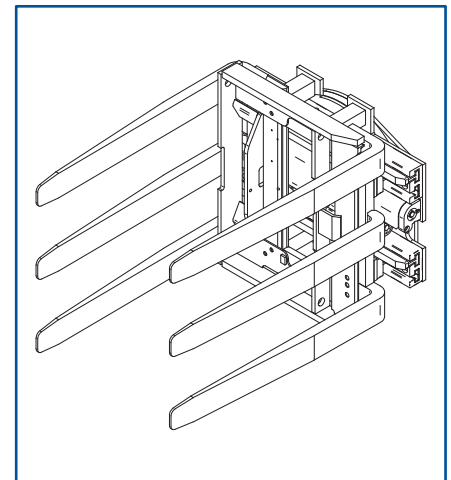
Most Turnaloads are designed to handle a specific load.
Various Arms and features can be incorporated for any application.



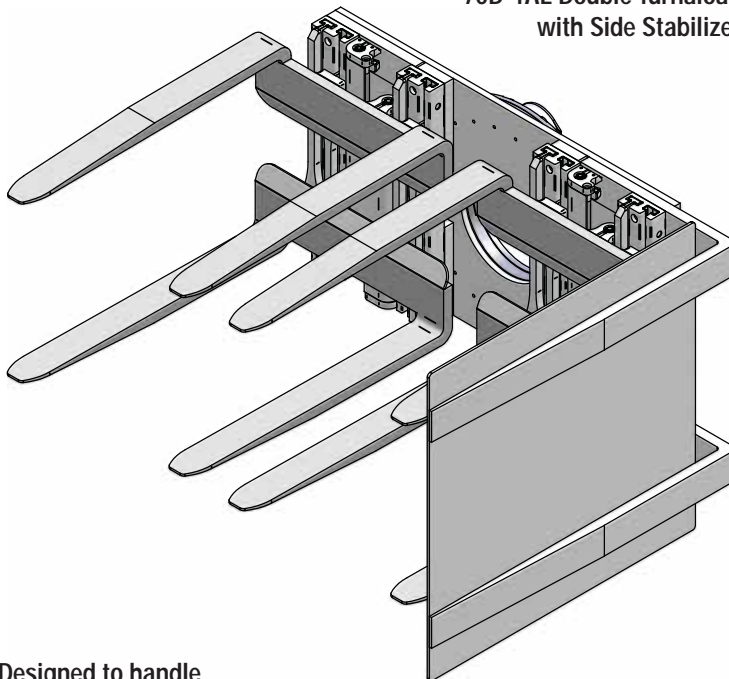
35D-TAL-62178



70D-TAL-61972



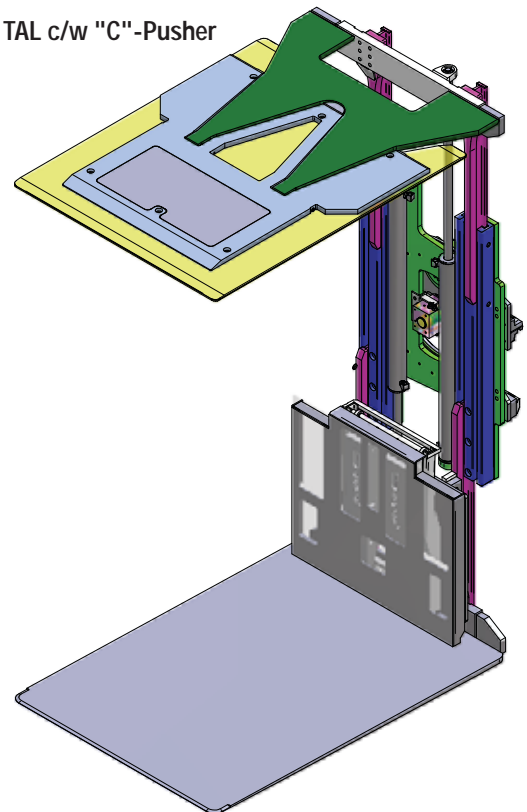
70D-TAL Double Turnaload
with Side Stabilizer



Designed to handle
separate loads side by side



TAL c/w "C"-Pusher



50D-TAL-SP
Designed with Articulating Arm
for handling scrap bales at recycling yard



35D-TAL-62431
Designed for handling sheets of laminate ranging from 1/16" thick to 16" Thick



Turnaload Side/Stabilizer



Turnaload c/w Retaining Lips



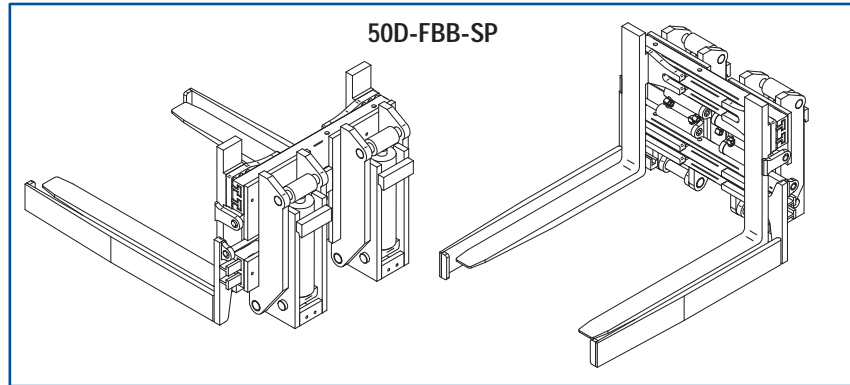
Turnaload c/w One Fixed Arm



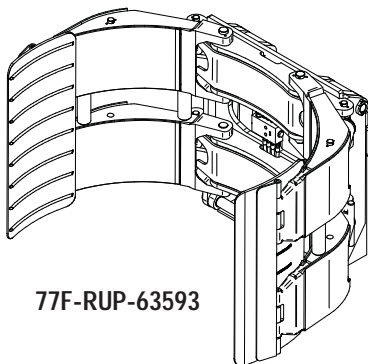
Handling stack chairs







Upending Roll Clamp



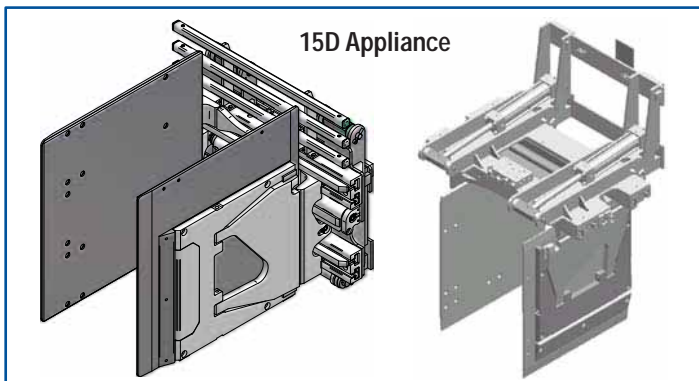
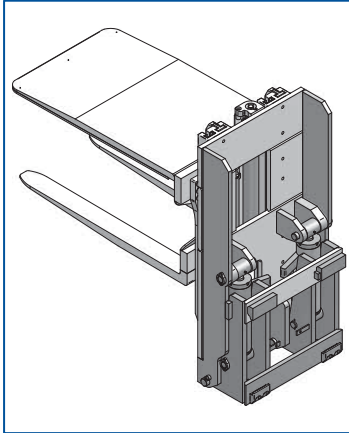
77F-RUP-63593



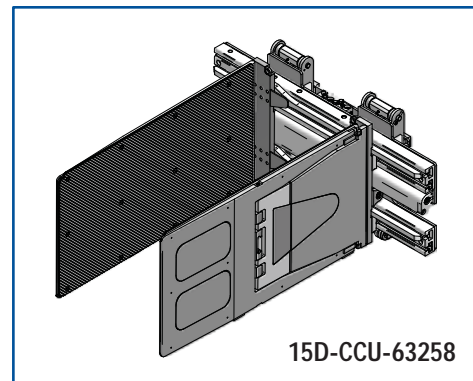
C6 Upending
Roll Clamp



50D-MCU-62638

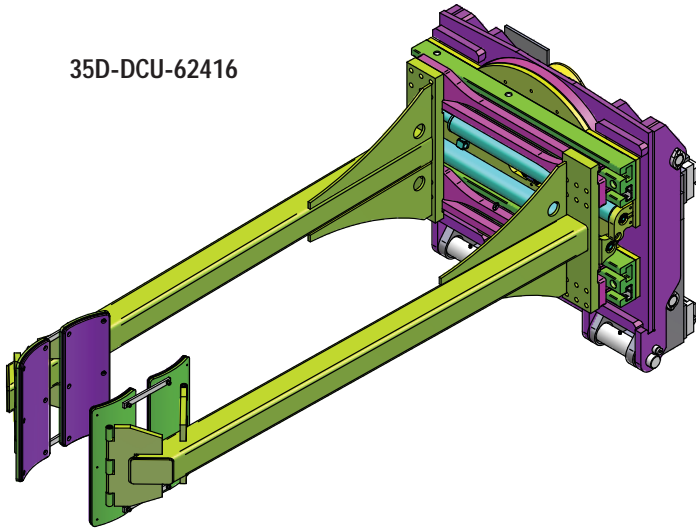


15D Appliance



15D-CCU-63258

35D-DCU-62416

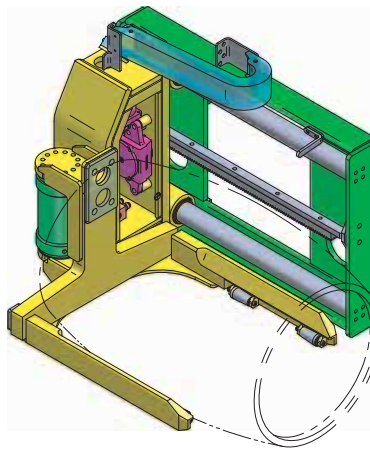
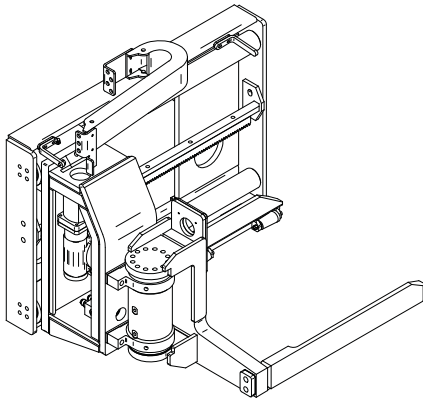


Special unit that clamps, rotates and 90° forward tipping action. Also has special long arms with articulating pads for handling unique load.





Offers a unique method of handling wine barrels.
Cradle arm assembly pivots 180° and traverses sideways



WBH-A002
Wine Barrel Handler
with Cradle Arm



WBH-T004
Wine Barrel Handler
with Top Grab Arm

