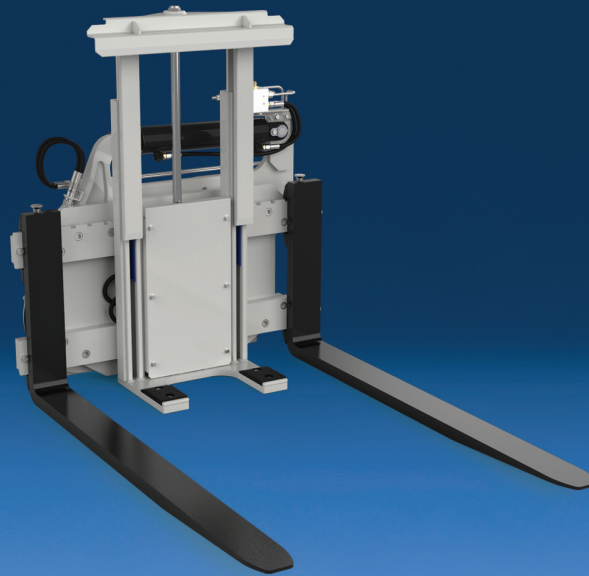
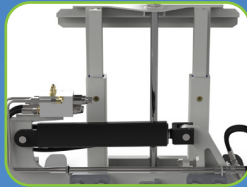


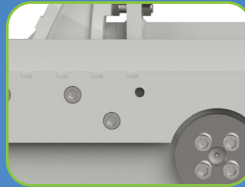
# Inverting and Dumping in the Agricultural Industry



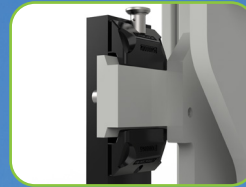
Unique cylinder drive for smooth operation



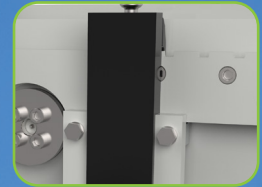
High visibility through bin hold down gives driver excellent sight line



Wide range of fork bar widths



Center hook provides stability and maximizes capacity



Fork keepers ensure forks remain secure on attachment

## APPLICATIONS

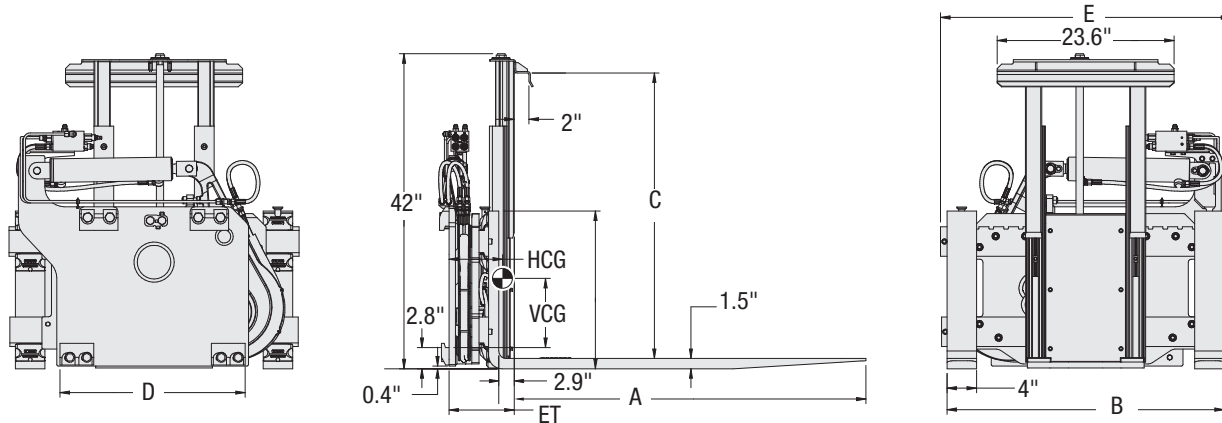
The 20G Rotator provides the ability to quickly dump or invert a load easily and accurately. It is ideally suited for seasonal use in the agriculture industry and provides versatility when inverting and dumping bins is required.

## FEATURES

- Compact build doesn't decrease the net capacity of the forklift, allowing for handling more without needing to invest in a larger lift truck.
- Unique Cascade drive is designed specifically for seasonal use in the agriculture industry.
- Hydraulically operated bin retainer designed to securely clamp on top of the bin and hold it in place while rotating.
- 180 degree rotation to quickly dump or invert a load and immediately return to the pick-up position.
- Good torque performance ensures smooth, positive rotation of the load.
- Reliable, economical design for handling plastic, wooden and metal bins used in the agricultural market.

## OPTIONS

- Multiple fork lengths are available to suit a wide variety of applications.
- Rotator may be ordered with or without a bin hold-down.
- **Small Bin Kit** – designed for use with small or half sized bins.
- **Macro Bin Hold-Down** – designed to provide added hold-down retention to the side of the bin so that it is held securely when rotating.
- **Optional Rotation to the Left** - the 20G catalog units come standard with 180° rotation to the right (*when seated in the lift truck*). Rotation to the left is now available on a custom basis.



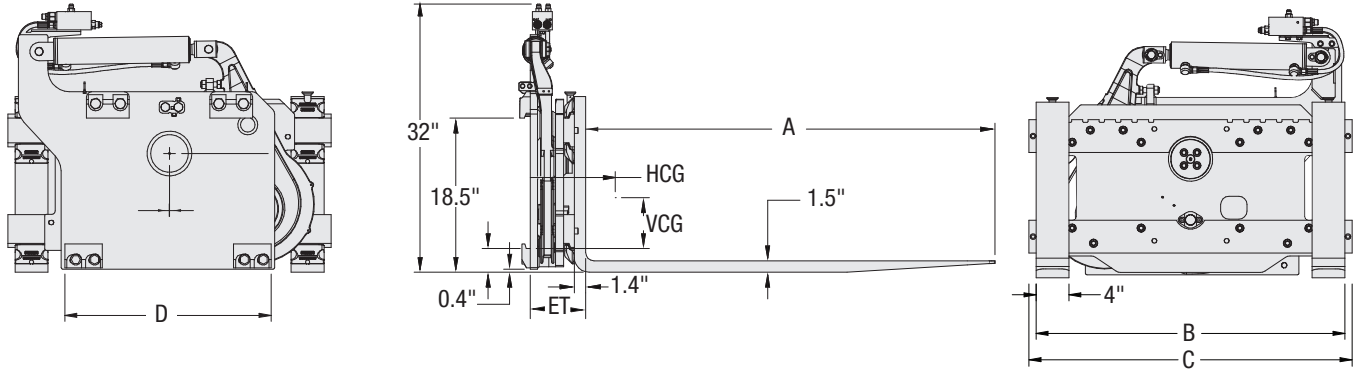
**180° Rotation with Hydraulic Bin Hold Down**

Catalog Order No.	Capacity @ 24" (600 mm) Load Center		Fork Length	Maximum OTO Fork Spread		Bin Hook Height Min-Max	Mtg. Class	Mtg. Angle	Max. Hook Spread OTO	Weight		Effective Thickness	Horizontal Ctr. of Gravity	Vertical Ctr. of Gravity	Overall Width
	lbs	kg		A	B					C	D				
<b>20G-RLH-2A-3050</b>	①	①	w/o forks	32"	24.4"-38.1"	II	0°	24.7"	666	303	9.5"	3.9"	11.2"	35.5"	
<b>20G-RLH-2A-3150</b>	3,700	1,700	30"	32"	24.4"-38.1"	II	0°	24.7"	818	372	9.5"	5.5"	9.7"	35.5"	
<b>20G-RLH-2A-3250</b>	3,700	1,700	36"	32"	24.4"-38.1"	II	0°	24.7"	837	380	9.5"	6.2"	9.4"	35.5"	
<b>20G-RLH-2A-3350</b>	3,700	1,700	42"	32"	24.4"-38.1"	II	0°	24.7"	859	391	9.5"	7.1"	9.1"	35.5"	
<b>20G-RLH-2A-3450</b>	3,700	1,700	48"	32"	24.4"-38.1"	II	0°	24.7"	873	397	9.5"	7.7"	8.9"	35.5"	
<b>20G-RLH-2A-4050</b>	①	①	w/o forks	37"	24.4"-38.1"	II	0°	24.7"	678	308	9.5"	3.9"	11.1"	38.7"	
<b>20G-RLH-2A-4150</b>	3,700	1,700	30"	37"	24.4"-38.1"	II	0°	24.7"	831	378	9.5"	5.5"	9.7"	38.7"	
<b>20G-RLH-2A-4250</b>	3,700	1,700	36"	37"	24.4"-38.1"	II	0°	24.7"	849	386	9.5"	6.1"	9.4"	38.7"	
<b>20G-RLH-2A-4350</b>	3,700	1,700	42"	37"	24.4"-38.1"	II	0°	24.7"	872	396	9.5"	7.0"	9.1"	38.7"	
<b>20G-RLH-2A-4450</b>	3,700	1,700	48"	37"	24.4"-38.1"	II	0°	24.7"	886	403	9.5"	7.7"	8.9"	38.7"	

① See Capacity Chart for capacities with various fork sizes. Capacity is shown with forks. A horizontal bar may be required when used with certain bins, consult Cascade.

- ▶ When using the Hydraulic Bin Rotator, a second hydraulic function is required. This can be configured with a Sequence Valve that will allow product to be used with a single function lift truck. Consult Cascade for pricing.
- ▶ Optional side fork stabilizer available.
- ▶ Configurations shown are typical. For application specific design, consult Cascade.

- ▶ Optional Small Bin Kit – designed for use with small or half sized bins.
- ▶ Optional Macro Bin Hold-Down – designed to provide added hold-down retention to the side of the bin so that it is held securely when rotating.
- ▶ Optional Rotation to the Left - the 20G catalog units come standard with 180° rotation to the right (when seated in the truck). Rotation to the left is now available through the AED / Custom Products Group.



**180° Rotation, No Bin Hold Down**

Catalog Order No.	Capacity@ 24" (600 mm) Load Center		Fork Length A	Maximum OTO Fork Spread B	Mtg. Class	Mtg. Angle	Upper Hook Width OTO D	Weight		Effective Thickness ET	Horizontal Ctr. of Gravity HCG	Vertical Ctr. of Gravity VCG	Overall Width C
	lbs	kg						lbs	kg				
<b>20G-RRL-2A-3000</b>	①	①	w/o forks	32"	II	0°	24.7"	495	225	5.3"	2.3"	9.5"	35.5"
<b>20G-RRL-2A-3100</b>	3,700	1,700	30"	32"	II	0°	24.7"	634	288	6.7"	4.4"	8.1"	35.5"
<b>20G-RRL-2A-3200</b>	3,700	1,700	36"	32"	II	0°	24.7"	653	297	6.7"	5.1"	7.8"	35.5"
<b>20G-RRL-2A-3300</b>	3,700	1,700	42"	32"	II	0°	24.7"	671	305	6.7"	6.0"	7.5"	35.5"
<b>20G-RRL-2A-3400</b>	3,700	1,700	48"	32"	II	0°	24.7"	689	313	6.7"	7.0"	7.3"	35.5"
<b>20G-RRL-2A-4000</b>	①	①	w/o forks	37"	II	0°	24.7"	507	230	5.3"	2.4"	9.4"	38.7"
<b>20G-RRL-2A-4100</b>	3,700	1,700	30"	37"	II	0°	24.7"	647	294	6.7"	4.4"	8.1"	38.7"
<b>20G-RRL-2A-4200</b>	3,700	1,700	36"	37"	II	0°	24.7"	665	302	6.7"	5.1"	7.8"	38.7"
<b>20G-RRL-2A-4300</b>	3,700	1,700	42"	37"	II	0°	24.7"	683	311	6.7"	6.0"	7.5"	38.7"
<b>20G-RRL-2A-4400</b>	3,700	1,700	48"	37"	II	0°	24.7"	702	319	6.7"	6.9"	7.3"	38.7"

① See Capacity Chart for capacities with various fork sizes.  
Capacity is shown with forks.

**ROTATOR CAPACITY PER PAIR OF FORKS AT 24" (600 mm) CHART**

Capacity at 24 in Load Center (600 mm) – Fork Size (W x T)

Model	Class	4x1.25 in	100x35 mm	4x1.5 in	100x40 mm	5x1.5 in	122x40 mm	5x1.75 in	125x45 mm	5x2 in	122x50 mm
20G	II	3,500 lbs	1,600 kg	3,7000 lbs	1,700 kg	3,700 lbs	1,700 kg	3,700 lbs	1,700 lbs	–	–

**HYDRAULIC FLOW, PRESSURE & ROTATOR SPECIFICATIONS**

Model	Maximum Attachment Working Pressure (psi)	Maximum Deliverable Pressure (psi/bar)	Rotator Circuit Pressure Protected Yes/No?	Attachment Number of Functions	Min-Rec-Max Function 1 (gpm)	Truck Auxiliary Valves Required	RPM @ Flow (gpm)	Torque in/lbs. @ 2,300 psi
20G	2,600	2,600/180	Yes	1	4 - 5 - 8	1	12.8 @ 5	28,300

▶ If the maximum delivered truck pressure exceeds maximum attachment operating pressure and the attachment is not pressure protected, then auxiliary pressure protection is required.

**OPTIONS:**

**Small Bin Kit (Part Number 6580743)**

The Small Bin Kit has been designed for use with smaller or half-size bins. The kit includes the bracket and the hardware needed to secure it to the clamp arm.



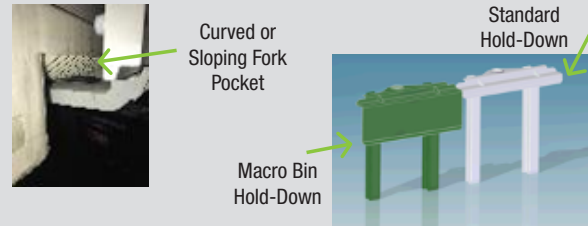
Standard Size Bin



Half Size Bin

**Macro Bin Hold-Down (Part Number 6940601)**

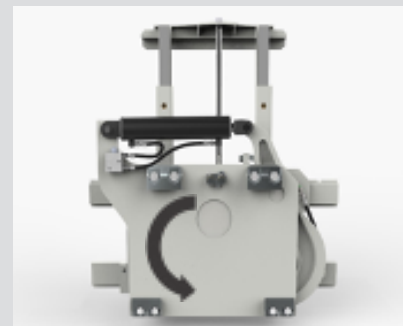
Macro bins are commonly used in agricultural, especially in the wine industry. Macro bins are designed with a curved fork pocket which makes it difficult to secure the bin against the rotator bin retainer legs. The Macro Bin Hold-Down has been designed to provide added retention to the side of the bin so that it is held securely when rotating.



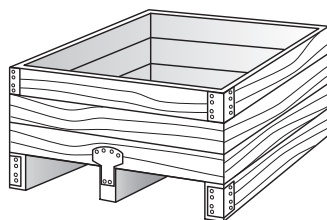
**Optional Rotation to Left (when seated in the truck)**

The 20G catalog units come standard with 180° rotation to the right (when seated in the lift truck). Rotation to the left is now available on a custom basis. Consult Cascade for custom pricing.

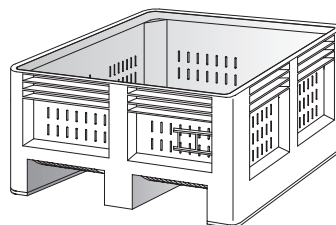
Optional rotation to the left pictured



Wood Bin



Plastic Bin



Metal Bin

