



*Built for fast,  
efficient and  
productive clamp  
handling.*

## Bring palletless handling to your operation.

### APPLICATIONS

Achieve all the benefits of palletless handling of unitized loads in your manufacturing and distribution operation. Cascade's D-Series Carton Clamps allow efficient handling of a wide range of low-, medium- and high-density products including consumer paper products, appliances, consumer electronics, wine, packaged foods (canned or boxed), chemicals and plastics.

### FEATURES

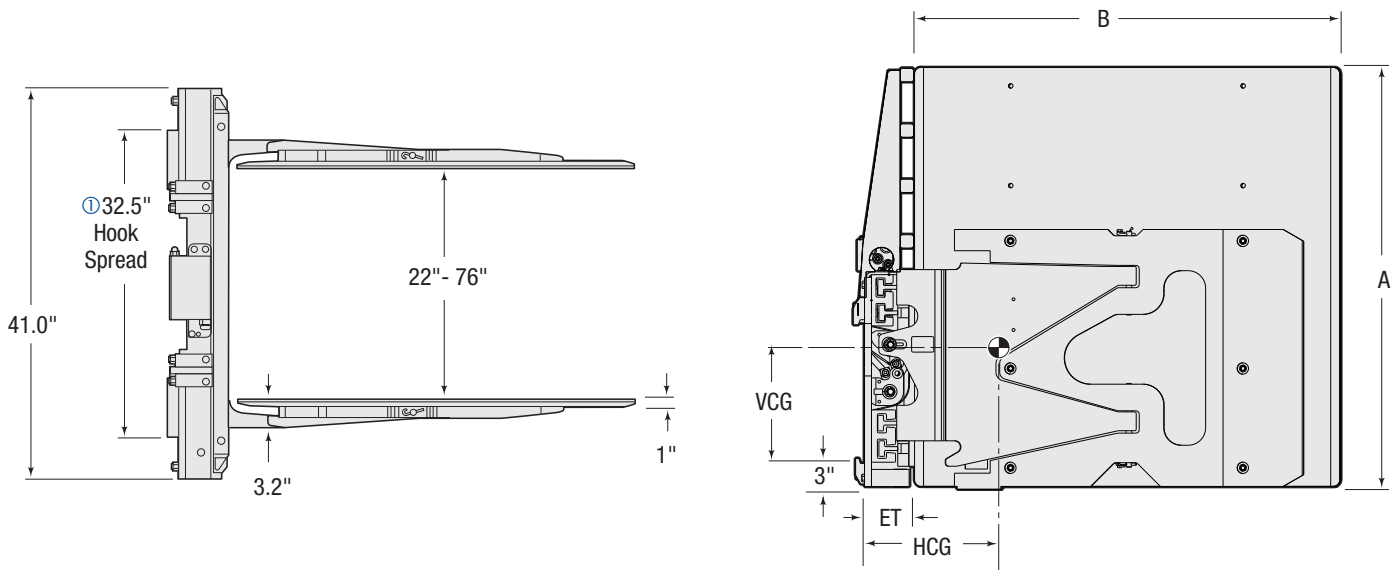
- Proven arm and aluminum frame construction ensures long useful life of the clamp.
- Unique pivoting arm and stabilizer design allows superior clamping force distribution for secure and damage free handling of a wide range of product types.
- Thin arm profiles allow for stacking loads tightly in the warehouse.
- Superior arm-slide bearing material and design extends bearing life and maintains balanced clamp force distribution.
- Rubber faced aluminum contact pads are standard and provide a high coefficient of friction to securely hold loads.
- Regenerative hydraulic valving is standard for optimal arm speed.

### OPTIONS

- Application specific contact pads (sizes & surfaces)
- Quick Disconnect mounting
- Custom opening ranges
- Tilt Control
- Load Cushion



# 15 & 25D CARTON CLAMPS



## Sideshifting

| Catalog Order No. | Capacity @ Load Center |             | Opening Range | Mtg. Class | Weight |     | Effective Thickness | Horizontal Ctr. of Gravity | Vertical Ctr. of Gravity | Arm Height | Arm Length |
|-------------------|------------------------|-------------|---------------|------------|--------|-----|---------------------|----------------------------|--------------------------|------------|------------|
|                   | lbs @ in.              | kg @ mm     |               |            | lbs    | kg  |                     |                            |                          |            |            |
| 15D-CCS-01A       | 1,500 @ 15             | 680 @ 380   | 22"-76"       | II         | 1,110  | 503 | 5.0"                | 12.8"                      | 12.9"                    | 48"        | 30"        |
| 15D-CCS-28A       | 1500 @ 16              | 680 @ 405   | 22"-76"       | II         | 1,153  | 524 | 5.0"                | 13.1"                      | 13.0"                    | 48"        | 32"        |
| 15D-CCS-32A       | 1,500 @ 20             | 680 @ 510   | 22"-76"       | II         | 1,325  | 600 | 5.0"                | 14.5"                      | 13.4"                    | 48"        | 40"        |
| 15D-CCS-33A       | 1,500 @ 21             | 680 @ 535   | 22"-76"       | II         | 1,335  | 604 | 5.0"                | 14.5"                      | 13.4"                    | 48"        | 42"        |
| 15D-CCS-34A       | 1,500 @ 23             | 680 @ 585   | 22"-76"       | II         | 1,435  | 651 | 5.0"                | 16.8"                      | 13.5"                    | 48"        | 46"        |
| 15D-CCS-35A       | 1,500 @ 24             | 680 @ 600   | 22"-76"       | II         | 1,455  | 660 | 5.0"                | 16.9"                      | 13.5"                    | 48"        | 48"        |
| 25D-CCS-01A       | 2,500 @ 15             | 1,135 @ 380 | 22"-76"       | II         | 1,110  | 503 | 5.0"                | 12.8"                      | 12.9"                    | 48"        | 30"        |
| 25D-CCS-32A       | 2,500 @ 20             | 1,135 @ 510 | 22"-76"       | II         | 1,325  | 600 | 5.0"                | 14.5"                      | 13.4"                    | 48"        | 40"        |
| 25D-CCS-33A       | 2,500 @ 21             | 1,135 @ 535 | 22"-76"       | II         | 1,335  | 604 | 5.0"                | 14.5"                      | 13.4"                    | 48"        | 42"        |
| 25D-CCS-34A       | 2,500 @ 23             | 1,135 @ 585 | 22"-76"       | II         | 1,435  | 651 | 5.0"                | 16.8"                      | 13.5"                    | 48"        | 46"        |
| 25D-CCS-35A       | 2,500 @ 24             | 1,135 @ 600 | 22"-76"       | II         | 1,455  | 660 | 5.0"                | 16.9"                      | 13.5"                    | 48"        | 48"        |

- ① Class III mounting available for 25D. Requires 38" minimum truck carriage width
- ▶ Class II Bolt-On mounting is standard. Quick-Disconnect mounting also available at no charge. .
- ▶ Front lower leading edge pad wear can be addressed by periodic replacement of the factory installed wear tiles. Contact Cascade Parts Department at 888-CASCADE (227-2233) for service kits. Cascade recommends using tilt control with all carton clamps.
- ▶ Can easily be converted to non-sideshifting by plugging ports on the valve.
- ▶ Attachment capacity should be matched to the derated truck capacity with the attachment installed for most efficient application.
- ▶ Additional contact pad sizes, arm opening ranges, and features are available. Consult Cascade.
- ▶ All Carton Clamps are sideshifting.

## MOUNTING CLASS INFORMATION

| Mounting Class | Truck Capacity   |
|----------------|------------------|
| II             | 2,000-5,500 lbs. |
| III            | 6,000-10,000 lbs |

## HYDRAULIC FUNCTIONS

| Model   | Hydraulic Functions | Truck Auxiliary Valves Required |
|---------|---------------------|---------------------------------|
| 15D/25D | 2                   | 2                               |

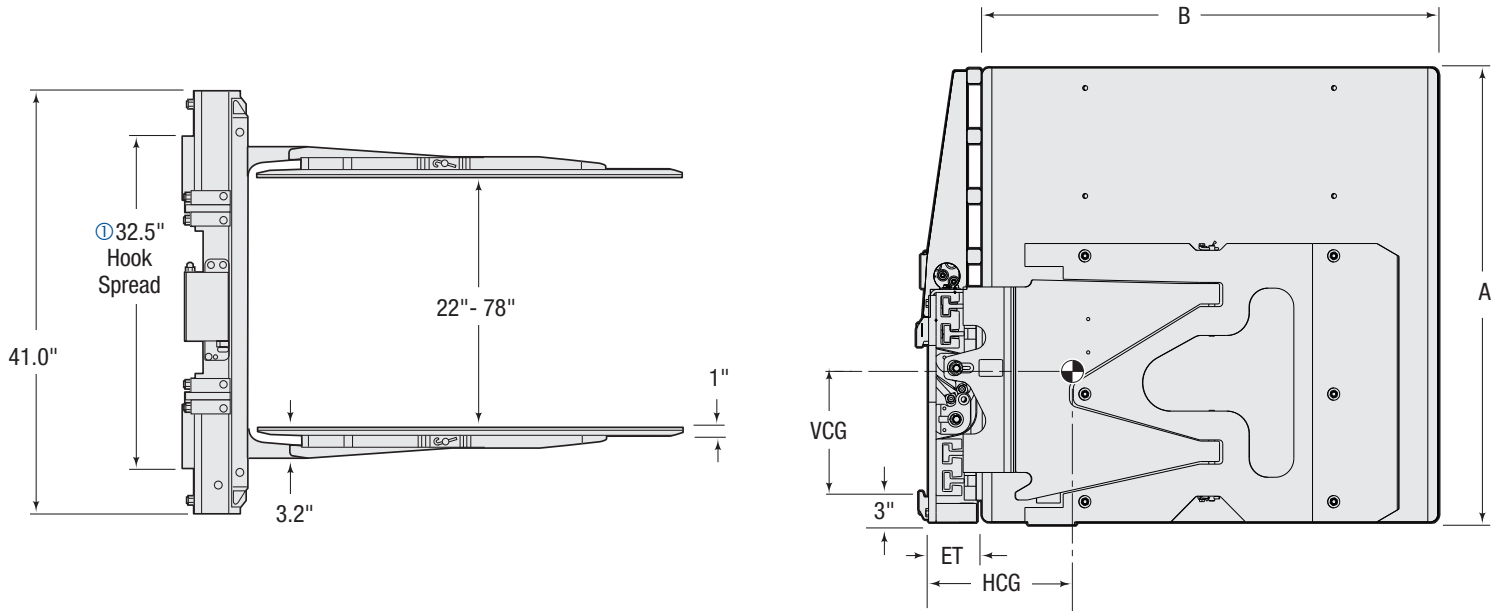
## HYDRAULIC FLOW & PRESSURE

| Model | Maximum Pressure<br>psi/bar | Number of Functions | Min-Rec-Max Function 1 (sideshift)<br>gpm | Min-Rec-Max Function 2 (clamp)<br>gpm |
|-------|-----------------------------|---------------------|---|---------------------------------------|
| 15D   | 2,300/159                   | 2                   | 1-2.5-8                                   | 5-5.5-8                               |
| 25D   | 2,300/159                   | 2                   | 1-3.0-8                                   | 5-5.5-8                               |

## INSTALLATION KIT

| Model   | Catalog Order No. |
|---------|-------------------|
| 15D/25D | 659249            |

# 35D CARTON CLAMP



## Sideshifting

| Catalog Order No. | Capacity @ Load Center |             | Opening Range | Mtg. Class | Weight |     | Effective Thickness | Horizontal Ctr. of Gravity | Vertical Ctr. of Gravity | Arm Height | Arm Length |
|-------------------|------------------------|-------------|---------------|------------|--------|-----|---------------------|----------------------------|--------------------------|------------|------------|
|                   | lbs @ in.              | kg @ mm     |               |            | lbs    | kg  |                     |                            |                          |            |            |
| 35D-CCS-32A       | 3,500 @ 20             | 1,590 @ 510 | 22"-78"       | II         | 1,400  | 635 | 5.0"                | 16.0"                      | 14.2"                    | 48"        | 40"        |
| 35D-CCS-33A       | 3,500 @ 21             | 1,590 @ 535 | 22"-78"       | II         | 1,410  | 640 | 5.0"                | 16.3"                      | 14.2"                    | 48"        | 42"        |
| 35D-CCS-34A       | 3,500 @ 23             | 1,590 @ 585 | 22"-78"       | II         | 1,530  | 694 | 5.0"                | 18.5"                      | 14.3"                    | 48"        | 46"        |
| 35D-CCS-35A       | 3,500 @ 24             | 1,590 @ 600 | 22"-78"       | II         | 1,540  | 699 | 5.0"                | 18.8"                      | 14.3"                    | 48"        | 48"        |
| 35D-CCS-36A       | 3,300 @ 26             | 1,500 @ 660 | 22"-78"       | II         | 1,650  | 748 | 5.0"                | 21.0"                      | 14.4"                    | 48"        | 52"        |
| 35D-CCS-37A       | 3,200 @ 27             | 1,455 @ 685 | 22"-78"       | II         | 1,660  | 753 | 5.0"                | 21.3"                      | 14.4"                    | 48"        | 54"        |
| 35D-CCS-42A       | 3,500 @ 20             | 1,590 @ 510 | 22"-78"       | II         | 1,440  | 653 | 5.0"                | 16.1"                      | 15.2"                    | 54"        | 40"        |
| 35D-CCS-43A       | 3,500 @ 21             | 1,590 @ 535 | 22"-78"       | II         | 1,450  | 658 | 5.0"                | 16.4"                      | 15.2"                    | 54"        | 42"        |
| 35D-CCS-44A       | 3,500 @ 23             | 1,590 @ 585 | 22"-78"       | II         | 1,580  | 717 | 5.0"                | 18.6"                      | 15.3"                    | 54"        | 46"        |
| 35D-CCS-45A       | 3,500 @ 24             | 1,590 @ 600 | 22"-78"       | II         | 1,590  | 721 | 5.0"                | 18.9"                      | 15.3"                    | 54"        | 48"        |
| 35D-CCS-46A       | 3,300 @ 26             | 1,500 @ 660 | 22"-78"       | II         | 1,700  | 771 | 5.0"                | 21.1"                      | 15.4"                    | 54"        | 52"        |
| 35D-CCS-47A       | 3,200 @ 27             | 1,455 @ 685 | 22"-78"       | II         | 1,710  | 776 | 5.0"                | 21.4"                      | 15.4"                    | 54"        | 54"        |
| 35D-CCS-92A       | 3,500 @ 20             | 1,590 @ 510 | 22"-78"       | II         | 1,480  | 671 | 5.0"                | 16.2"                      | 16.3"                    | 60"        | 40"        |
| 35D-CCS-93A       | 3,500 @ 21             | 1,590 @ 535 | 22"-78"       | II         | 1,490  | 676 | 5.0"                | 16.5"                      | 16.3"                    | 60"        | 42"        |
| 35D-CCS-94A       | 3,500 @ 23             | 1,590 @ 585 | 22"-78"       | II         | 1,620  | 735 | 5.0"                | 18.7"                      | 16.4"                    | 60"        | 46"        |
| 35D-CCS-95A       | 3,500 @ 24             | 1,590 @ 600 | 22"-78"       | II         | 1,630  | 739 | 5.0"                | 19.0"                      | 16.4"                    | 60"        | 48"        |
| 35D-CCS-96A       | 3,300 @ 26             | 1,500 @ 660 | 22"-78"       | II         | 1,740  | 789 | 5.0"                | 21.2"                      | 16.5"                    | 60"        | 52"        |
| 35D-CCS-97A       | 3,200 @ 27             | 1,455 @ 685 | 22"-78"       | II         | 1,750  | 794 | 5.0"                | 21.5"                      | 16.5"                    | 60"        | 54"        |

① Class II Bolt-On mounting is standard. Class III and Quick-Disconnect mounting also available at no charge. Class III requires 38" minimum truck carriage width.

▶ Front lower leading edge pad wear can be addressed by periodic replacement of the factory installed wear tiles. Contact Cascade Parts Department at 888-CASCADE (227-2233) for service kits. Cascade recommends using tilt control with all carton clamps.

▶ Can easily be converted to non-sideshifting by plugging ports on the valve.

## HYDRAULIC FLOW & PRESSURE

| Model | Maximum Pressure<br>psi/bar | Number of Functions | Min-Rec-Max Function 1 (sideshift)<br>gpm | Min-Rec-Max Function 2 (clamp)<br>gpm |
|-------|-----------------------------|---------------------|---|---------------------------------------|
| 35D   | 2,300/159                   | 2                   | 1-4.0 10                                  | 5-7.0-10                              |

## INSTALLATION KIT

| Model | Catalog Order No. |
|-------|-------------------|
| 35D   | 659249            |

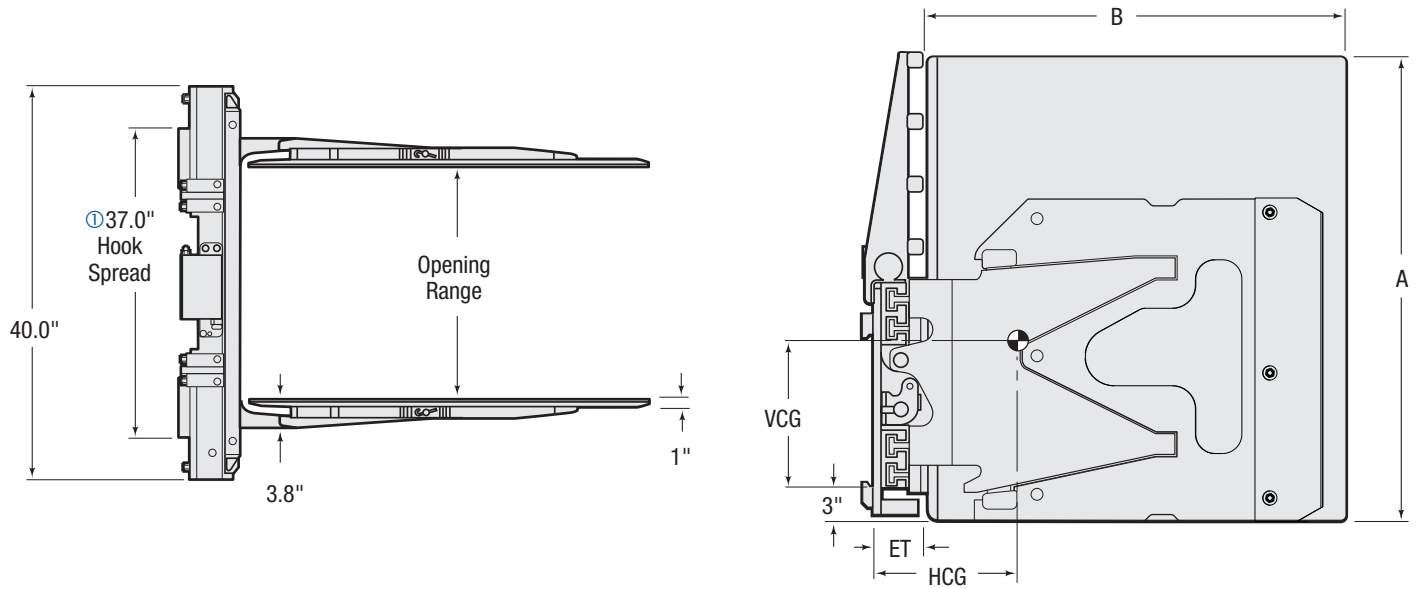
## MOUNTING CLASS INFORMATION

| Mounting Class | Truck Capacity   |
|----------------|------------------|
| II             | 2,000-5,500 lbs. |
| III            | 6,000-10,000 lbs |

## HYDRAULIC FUNCTIONS

| Model | Hydraulic Functions | Truck Auxiliary Valves Required |
|-------|---------------------|---------------------------------|
| 35D   | 2                   | 2                               |

# 50D CARTON CLAMP



## Sideshifting

| Catalog Order No. | Capacity @ Load Center |             | Opening Range | Mtg. Class | Weight |     | Effective Thickness ET | Horizontal Ctr. of Gravity HCG | Vertical Ctr. of Gravity VCG | Arm Height A | Arm Length B |
|-------------------|------------------------|-------------|---------------|------------|--------|-----|------------------------|--------------------------------|------------------------------|--------------|--------------|
|                   | lbs @ in.              | kg @ mm     |               |            | lbs    | kg  |                        |                                |                              |              |              |
| 50D-CCS-21B       | 5,000 @ 20             | 2,270 @ 510 | 21"-73"       | III        | 1,980  | 899 | 6.0"                   | 19.1"                          | 17.8"                        | 60"          | 40"          |
| 50D-CCS-22B       | 5,000 @ 21             | 2,270 @ 535 | 21"-73"       | III        | 1,995  | 906 | 6.0"                   | 19.2"                          | 17.8"                        | 60"          | 42"          |
| 50D-CCS-23B       | 5,000 @ 22             | 2,270 @ 560 | 21"-73"       | III        | 2,005  | 910 | 6.0"                   | 19.3"                          | 17.8"                        | 60"          | 44"          |
| 50D-CCS-24B       | 5,000 @ 23             | 2,270 @ 585 | 21"-73"       | III        | 2,095  | 951 | 6.0"                   | 20.2"                          | 16.8"                        | 60"          | 46"          |
| 50D-CCS-25B       | 5,000 @ 24             | 2,270 @ 600 | 21"-73"       | III        | 2,110  | 958 | 6.0"                   | 20.3"                          | 16.9"                        | 60"          | 48"          |

- ① Class II Bolt-On mounting is standard. Class III and Quick-Disconnect mounting also available at no charge. Class III requires 38" minimum truck carriage width.
- ▶ Front lower leading edge pad wear can be addressed by periodic replacement of the factory installed wear tiles. Contact Cascade Parts Department at 888-CASCADE (227-2233) for service kits. Cascade recommends using tilt control with all carton clamps.
- ▶ Can easily be converted to non-sideshifting by plugging ports on the valve.

## INSTALLATION KIT

| Model | Catalog Order No. |
|-------|-------------------|
| 50D   | 659249            |

## MOUNTING CLASS INFORMATION

| Mounting Class | Truck Capacity     |
|----------------|--------------------|
| III            | 6,000-10,000 lbs   |
| IV             | 10,001-17,500 lbs. |

## HYDRAULIC FUNCTIONS

| Model | Hydraulic Functions | Truck Auxiliary Valves Required |
|-------|---------------------|---------------------------------|
| 50D   | 2                   | 2                               |

## HYDRAULIC FLOW & PRESSURE

| Model | Maximum Pressure psi/bar | Number of Functions | Min-Rec-Max Function       |                        |
|-------|--------------------------|---------------------|----------------------------|------------------------|
|       |                          |                     | Function 1 (sideshift) gpm | Function 2 (clamp) gpm |
| 50D   | 2,300/159                | 2                   | 1-6.0 15                   | 5-12-15                |

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