



# Lifting and discharging



- Stand alone or part of line set up
- Sturdy, reliable and stable
- Wide variety of applications
- Ergonomically designed, customized loaders

# A Wide Variety of Applications

DC Norris is a leading supplier of lifts, loaders and discharging equipment for the food industry. Based on a broad range of standard loaders, we offer loading equipment to various types of processing plants. Experience gathered from a large number of turnkey solutions has made us expert suppliers in ergonomically designed, customized loaders.

Designed for safe, reliable and convenient operation, thousands of loaders are in operation all over the world within a multitude of different segments. All products are CE-marked and manufactured with focus on flexibility, high quality and hygienic design. Designed completely in stainless steel, they comply with every food safety regulation in the industry.



# Loading equipment



## Description

## Loader L25

The L25 is a sturdy loader, specifically suitable for tasks within the food industry requiring accuracy and stability.

The L25 column loader is designed for lifting and discharging of 460/660# tote bins (DIN 9797) to various levels.

The loader is also available for lifting and emptying of barrels and bins or may be mounted with a platform for carts or trolleys or persons according to the customers' special requirements. L25 can be supplied as a stationary or mobile unit and in right or left hand execution.

It is made of stainless steel with a load-bearing, central pipe, supporting the slider and giving a strong and stable design.

## Dimensional sketch

H: Discharge height:

46" - 65"	69" - 86"
81" - 100"	101" - 120"
120" - 140"	max. 236"

All discharge heights are adjustable at 4.725" intervals within the indicated heights. (Special height as per request).

- 1 Right hand execution
- 2 Right hand execution with forks turned 90°
- 3 Left hand execution shown with moveable frame

## Technical specifications

Lifting capacity	Lb	770
Lifting speed	Ft/min	16
Discharge height	inch	up to max 236*
Motor	kW	0.75
Voltage	V	3x460 - 60 hz
Protection level		IP 64 - IP 55
Weight (height 87")	Lb	770
Finish	stainless steel (AISI 304), bead blasted	

\*) Mobile up to max height = 98"

# Loading equipment



## Description

## Loader L50

The L50 loader is specifically designed for lifting and discharging of containers. L50 is also delivered with platforms for trolleys, pallets and other special equipment with special lifting fittings tailored according to customer requirements.

The loader can be delivered as stationary or move-able units and in right or left hand execution.

L50 is sturdy, reliable, and stable. It is made of a strong stainless steel folded profile column ensuring a smooth and easy-to-clean surface. Consequently, the loader meets all requirements from the veterinary authorities.

## Dimensional sketch

H: Discharge height:

46" - 65"	65" - 85"
81" - 100"	101" - 120"
120" - 140"	max. 236"

All discharge heights are adjustable at 4.725" intervals within the indicated heights. (Special height as per request).

- 1 Right hand execution
- 2 Left hand execution with forks turned 90°

## Technical specifications

Lifting capacity	Lb	1100
Lifting speed	ft/min	14.75
Discharge height	ft	max 19.6*
Motor	kW	1.1
Voltage	V	3x460 - 60 hz
Protection level		IP 64 - IP 55
Weight (with height 84.6")	Lb	1320
Finish	stainless steel (AISI 304), bead blasted	

\*) Mobile up to max height = 98"

# Loading equipment



## Description

## Loader L75

The L75 heavy duty loader is specifically designed for lifting and discharging of big and heavy containers.

L75 is delivered with platforms for trolleys, pallets, bins and other equipment with special lifting fittings tailored according to the customer requirements.

The loader can be delivered as stationary or moveable units and in right or left hand execution.

To ensure a smooth and stable operation in the heavy duty loaders, the lifting fork is attached to a roller guiding sleeve placed in a rail system and supported by a strong folded profile column. The loader is driven by a heavy roller chain and the motor has an electric safety brake.

## Dimensional sketch

H: Discharge height:

65"	85"
100"	120"
139"	160"
179"	196"

All discharge heights are adjustable at  $\pm 2.3"$  (Special height as per request)

- 1 Right hand execution
- 2 Left hand execution with forks turned 90°

## Technical specifications

Lifting capacity	Lb	1650
Lifting speed	Ft/min	10
Discharge height	Inch	196
Motor	kW	1.5
Voltage	V	3x460 - 60 hz
Protection level		IP 64 - IP 55
Weight (with height 84")	Lb	1760
Finish	stainless steel (AISI 304), bead blasted	

# Loading equipment



## Description

## Loader L120

The L120 heavy duty loader is specifically designed for lifting and discharging of big and heavy containers.

The L120 is delivered with platforms for trolleys, pallets, and other equipment with special lifting fittings tailored according to the customer requirements. The loader comes as stationary only, in right or left hand execution.

To ensure a smooth and stable operation in the heavy duty loaders, the lifting fork is attached to a roller guiding sleeve placed in a rail system and supported by a strong folded profile column. The loader is driven by heavy roller chains and the motor has an electric safety brake.

## Dimensional sketch

H: Discharge height:

65"	85"
100"	120"
139"	159"
179"	198"

All discharge heights are adjustable at  $\pm 2.3"$  (Special height as per request)

- 1 Right hand execution
- 2 Left hand execution with forks turned 90°

## Technical specifications

Lifting capacity	Lb	2640
Lifting speed	Ft/min	10
Discharge height	Inch	max 196
Motor	kW	2.2
Voltage	V	3x460 - 60 hz
Protection level		IP 64 - IP 55
Weight (height 84.6")	Lb	2090
Finish	stainless steel (AISI 304), bead blasted	

# Swing loading equipment



## Description

## Swing loader SL25

The hydraulic swing loader SL25 is designed for discharging of standard 460lbs and 660lbs meat bins. During emptying, the bins can be stopped and held in any position required, which makes the lift very useful for controlled portioning, e.g. onto a table or via the accumulating chute into trays or boxes.

SL25 is equipped with a compact, integral electro-hydraulic pump station, complete with oil tank, valves, stainless steel cylinder, motor guard, and control panel. All internal electric and hydraulic connections are supplied linked and screened. SL25 is produced in stainless steel with a hygienic design, facilitating the daily cleaning.

## Dimensional sketch

The swing loader type SL25 is also available in pneumatic execution, please refer to SL25P (max. 550lbs).

1 Mobil SL25

## Technical specifications

Lifting capacity	Lb	660
Lifting time	sec	15
Motor	kW	1.1
Voltage	V	3x460 - 60 hz
Protection level		IP 64 - IP 55
Weight	Lb	495
Finish	stainless steel (AISI 304), bead blasted	



# Swing loading equipment



## Description

## Swing loader SL75 /SL120

The SL75 / SL120 swing loader is applicable for very heavy tasks in the meat processing industry. The swing loader is used for the discharge of containers, bins, or for discharge and portioning onto tables. SL75 / SL120 is electro-hydraulically operated and supplied with a compact, integral electro-hydraulic pump station complete with oil tank, valves, stainless cylinders, motor guard, complete 24V control, internal wiring, and hydraulic connections. During emptying, the bins can be stopped and held in any position required.

## Dimensional sketch

The swing loader is also delivered as type VSL, where the load first is lifted hydraulically to a fix height and then tilted.

### Technical data type VSL

Capacity	As type SL
Vertical lifting height	As per requirement - max 24"

- 1 Execution with mobile frame
- 2 Stationary execution

## Technical specifications SL75

Lifting capacity	Lb	1650
Lifting time	sec	25
Motor	kW	1.1
Voltage	V	3x460 - 60 hz
Protection level		IP 64 - IP 55
Weight	Lb	1540
Finish	stainless steel (AISI 304), bead blasted	

## Technical specifications SL120

Lifting capacity	Lb	2640
Lifting time	sec	25
Motor	kW	2.2
Voltage	V	3x460 - 60 hz
Protection level		IP 64 - IP 55
Weight	Lb	1980
Finish	stainless steel (AISI 304), bead blasted	



# Special loading equipment



## Description

## Loader L25 for boxes

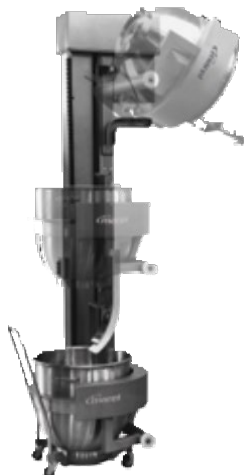
The loader type L25 spec is designed for the specific purpose of lifting boxes. The technology and know-how of this special loader is based on the well-known loader, type L25. The loader is extremely suitable within the food processing industry where loading and discharging of boxes is a daily routine.



## Description

## Swing loader SL75-170°

The swing loader type SL 75-170° is applicable for heavy tasks in the food processing industry. The swing loader is used for discharge of containers or bins. As the discharge angle is 170°, the swing loader is perfect for emptying sticky products such as cabbage, dough, minced meat etc. During emptying, the bins can be stopped and held in any position required.



## Description

## Loader L25 for bowls

The special loader type L25 for lifting and discharging of bowls is basically designed as our standard loader type L25. This type is a further development of the standard loader.

Besides the special fork to the bowl, the loader is equipped with an adjustable scraper, which can be moved upwards and downwards inside the bowl. After discharging, the scraping begins when the operator presses 'rotation start' and continues until the bin is completely clean. The loader will then return to bottom position. Also available as L75 for 1650Lbs.

# Special loading equipment



## Description

## Loader L25 for platform

The special loader type L25 is equipped with a platform capable of lifting bags, barrels, or the like between two different levels of heights.



## Description

## Loader L25 With adjustable work platform

In food processing the L25 adjustable work platform is used in tight spaces where a high and safe work platform is required. The L25 is typically used for:

- De-icing operations
- In-feed to portioning- and packing machines



## Description

## Loader L25 With separate tipping chute

The special loader type L25 equipped with a separate tipping chute is used if there is liquid together with the product. The chute is tipped before the trolley starts tipping, thus minimizing waste.

# Special loading equipment



## Description

## Loader L50 for de-icing

In fish processing the L50 for de-icing is used for lifting pallets with fish or fillet boxes in plastic or styrofoam to the correct ergonomic working height to carry out de-icing.



## Description

## Loader L50 floormounted

In food processing the L50 for palletizing is used to achieve the correct ergonomic working height for operators who stack boxes containing finished products onto pallets.



## Description

## Loader L50 for trolley loading

In food processing the L50 for trolley loading is used to achieve the correct ergonomic working height for operators who are placing fillets on smoke trolleys.

# Additional equipment

1



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●		●	●	●

Mobile frame for standard loaders. Available for loaders up to a discharge height of 100". With 2 fix and 2 swivel wheels type 1.

2



L25	L50	L75	L120	SL25	SL75	SL120
●	●					

Detached support for standard loaders. Available for loader up to a discharge height of 100". Support with adjustable legs.

3



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●	●	●	●

Bolt for fixation to floor

4



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●	●	●	●

Safety cage available with options for both 3 or 4 sides. Available for loaders with both standard fork and 90° turned fork. Supplement for hatch with switch and electrical interlock.

5



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●	●	●	●

Lifting fork 90°  
For emptying trolley or tank over the side.

6




L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●	●	●	●

Special fork with lifting unit on standard shaft.

# Additional equipment




7



L25	L50	L75	L120	SL25	SL75	SL120
●						

Detachable adaptor with 2 wheels for barrels.  
For mounting on standard fork.


8



L25	L50	L75	L120	SL25	SL75	SL120
●						

Detachable adaptor for meat blocks - for mounting on standard fork.


9



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●			

Fix tray for meat blocks - welded on fork.


10



L25	L50	L75	L120	SL25	SL75	SL120
●				●		

Fork for 120 L trolley.


11



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●	●		

Chute for lifting fork.

12




L25	L50	L75	L120	SL25	SL75	SL120
●	●					

Separate tipping chute for emptying of liquids. Available for standard fork as well as 90° turned forks.


# Additional equipment



13



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●			

Inlet hopper for filling of a horizontal tumbler and the like.  
May be combined with a moveable loader.  
Round outlet

14



L25	L50	L75	L120	SL25	SL75	SL120
●						

Swing-away fitting for 2 discharge heights (min. difference 600 mm).  
Manual change between the two heights.

15



L25	L50	L75	L120	SL25	SL75	SL120
●	●					

Swing arm for use when the standard guideway is in the way during emptying.

16



L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●			

Discharge heights outside the standard heights.

17


L25	L50	L75	L120	SL25	SL75	SL120
●	●					

Extra large discharge angle for use when the products are sticky and the standard discharge angle is too small (note: discharge heights gets lower)

18


L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●	●	●	●

Stainless steel guide sleeve.  
For use if the customer requires the guide sleeve to be in stainless steel.

# Additional equipment



19

L25	L50	L75	L120	SL25	SL75	SL120
●	●					

Fitting for mounting the loader on a minute/mixer etc. Combined with adjustable rubber feet in the bottomplate.

20

L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●			

Nickel-plated chain/Anti corrosion chain

21

L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●			

Fitting on column >137" type 1 or 2 incl. of screw and counter flange. For use when the customer requires support of the loader onto the ceiling etc.

22

L25	L50	L75	L120	SL25	SL75	SL120
●	●	●	●			

For use when the customer requires automatic lubrication of fork and guide sleeve.





**DC Norris also designs, manufactures and installs food processing plants**

For further information please visit:

[www.dcnorrisna.com](http://www.dcnorrisna.com)



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