



Falköping

DISCSPREADER



Headoffice

Danska vägen 87, SE-521 32 Falköping, Sweden
Phone +46 515 777 640, Telefax +46 515 801 88


Sales office

Stenkvittsvägen 1, SE-450 43 Smögen, Sweden
Phone +46 523 387 51, Telefax +46 523 387 52

www.friggeraker.se

Friggeråkers Verkstäder – established 1937

This family company was founded in Falköping in 1937. Initially the company manufactured simple types of transport fittings. The first sand spreader was manufactured in 1957. Production began to concentrate on sand spreader manufacture and development of new products advanced surely and steadily. The first salt spreader was produced in 1983. For the past 25 years the company has confined manufacture to sand and salt spreading machines. The factory has 6500 sq.m. of floor space with 40 employees. The factory produces approx. 500 sand and salt spreaders per annum. A service shop and service staff are on hand to supply "on the spot service". Product development is continuous and market demand oriented.

 Our machines
are CE marked

*Why make things
complicated when*

Falköping

makes things easy!

Our motto since 1937

TRACTOR



LIQUID





Falköping DISCSPREADER

COMBI



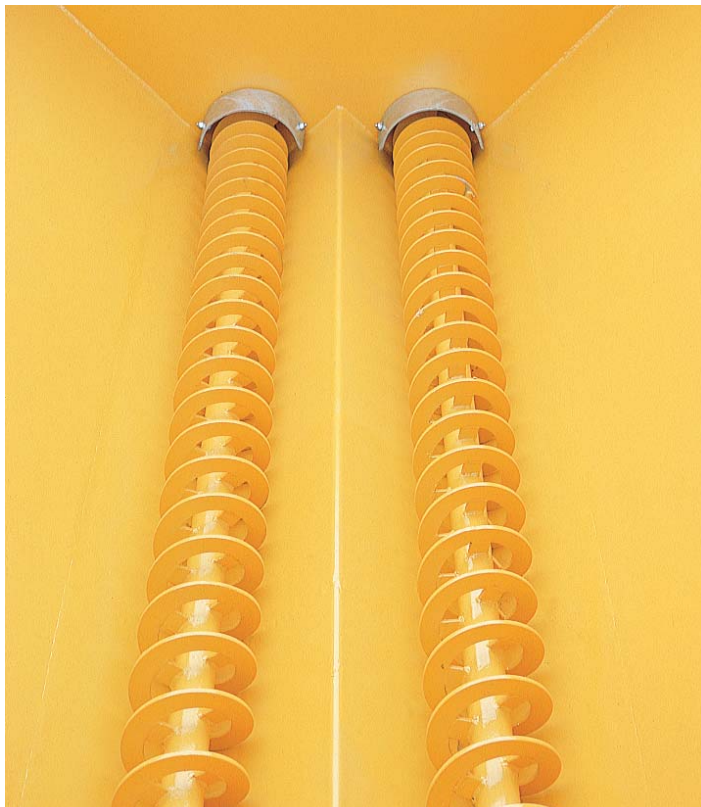
SALT





Falköping

- technically and consummately simple



Feedscrew

- double for reliable supply,
- can be operated at the same time or separately
- reversible, at a possible stop

- **Pure design without frills**
- **Few moving parts**
- **Simple outfeed design for maximum reliability**
- **Made in Sweden**



Compact hydraulics

- manually operated to scale service-friendly modular system
- Excellent precision provided by position finding slider

Instrument panel C-312, PDA or Interactor

- stepless and synchronised breadth and quantity setting
- road surface dependent, spreading synchronised with vehicle speed.
- feed screw with feedback for maximum precision
- spreading control with indication lamps
- quantity meter
- jettisoning
- feed manoeuvring, right/left or both
- Warning light and lighting
- Simple calibration facilitated by built-in tachometer function
- prepared for computerized data collection, GPS and GSM activation and control by road surface temperature



C-312



Interactor



PDA



Easy loading

- Low loading height
- steep sides to ensure complete emptying of container
- low centre of gravity



Easy on and off loading

- Stable design
- fast loading system

GPS-controlled spreading

Our new developed programme which can be used integrated in Scania Interactor or in a easy mounted PDA. The programme can handle routes and spreading schedules which are programmed in advance. The programme handles automatically, quantity, width, symmetry etc.



- The driver can be concentrated on the traffic
- Correct width and symmetry gives a reduction of the spreading quantity.
- During the route the driver gets instructions both visually and by voice.



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DISCSPREADER SALT



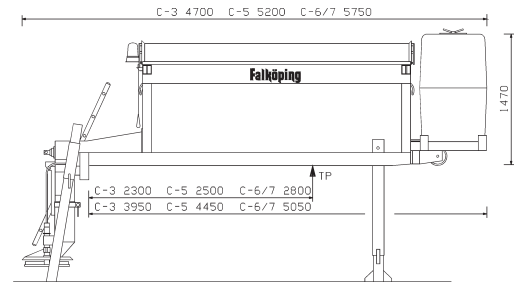
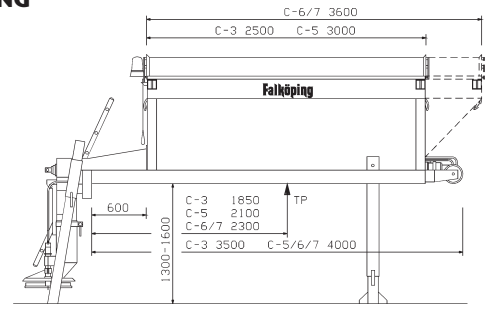
- The salt spreader comes in seven sizes from 0.6 to 7 m³.
- Models C-3, C-5, C-6 and C-7 are available with pre wetting equipment which automatically reduces salt quantity required by 30%.
- Models C-06, C-1 and C-2 are designed for smaller trucks. Hydraulic operation with single control feed. Storage legs for empty containers.
- Spreads: sand, shingle, salt and calcium chloride

| | |
|--------------|--------------|
| Model | C-3 |
| | C-5 |
| | C-6 |
| | C-7 |
| | C-06 |
| | C-1 |
| | C-1.5 |
| | C-2 |

| MODEL | C-3 | C-5 | C-6 | C-7 | S-MODEL | MOISTENING |
|--|----------------|----------------|----------------|----------------|---------|------------|
| Volume, m ³ | 3.0 | 5.0 | 6.0 | 7.0 | | 1.8 |
| Veight, kg | 1 000 | 1 300 | 1 400 | 1 500 | | + 200 |
| Feeding screw, pc | 2 | 2 | 2 | 2 | 1 | |
| Spreading quantity salt, g/m ² sand, g/m ² | 5-30 50-200 | 5-30 50-200 | 5-30 50-200 | 5-30 50-200 | | -30% |
| Spreading breadth, m | 2-8 | 2-8 | 2-8 | 2-8 | | |
| Hydraulic flow at 1 000 rpm | min 30/40 | 30/40 | 30/40 | 30/40 | | |
| salt/sand, l/min | max 60 | 60 | 60 | 60 | | |
| Hydraulic pressure min. bar | 150 | 150 | 150 | 150 | | |
| Operationgn voltage, volts | 12, 24 | 12, 24 | 12, 24 | 12, 24 | | |

Surface finish:
Accessories:

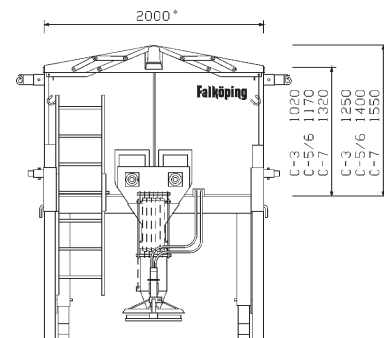
Zinc metallized, primer and 2-component top coat.
Remote controlled spreading configuration, pre wettening, mixer, hydraulic disc hoist, side jumpers, discharger, height extension frame, twin chambers, runner wheel or motor driven, side tanks etc



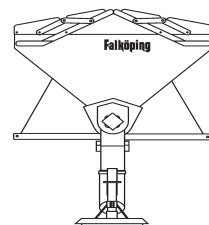
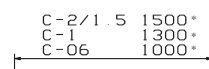
| MODEL | C-06 | C-1 | C-1.5 | C-2 |
|--|----------------|----------------|----------------|----------------|
| Volume, m ³ | 0.6 | 1.0 | 1.5 | 2.0 |
| Weight, kg | 200 | 250 | 320 | 350 |
| Spreading quantity salt, g/m ² sand, g/m ² | 5-30 50-200 | 5-30 50-200 | 5-30 50-200 | 5-30 50-200 |
| Spreading breadth, m | 2-8 | 2-8 | 2-8 | 2-8 |
| Hydraulic flow at 1 000 rpm | min 20 | 20 | 20 | 20 |
| salt/sand, l/min | max 60 | 60 | 60 | 60 |
| Hydraulic preasure min., bar | 150 | 150 | 150 | 150 |
| Operationgn voltage, volts | 12,24 | 12, 24 | 12,24 | 12, 24 |

Surface finish:
Accessories:

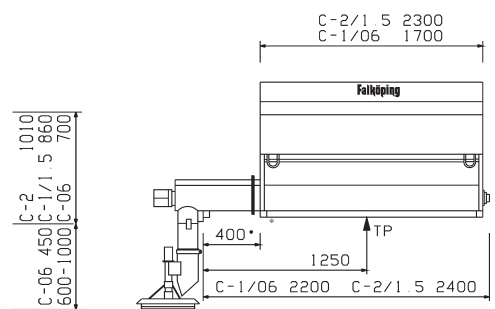
Zinc metallized, primer and 2-component top coat.
Remote controlled spreading configuration, pre wettening, extended feed hose + 300 mm, motor powered.



* Exkl side jumpers. With sidetanks 2350.



* Exkl side jumpers



* Long feedhose +300 mm



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DISCSPREADER COMBI



- Spreader for salt liquid and salt, separately or mixed.
- Membrane pump and double feeders provide very exact dosage.
- Spreads: sand, shingle, salt and calcium chloride

Model

CLC-366

CLC-427

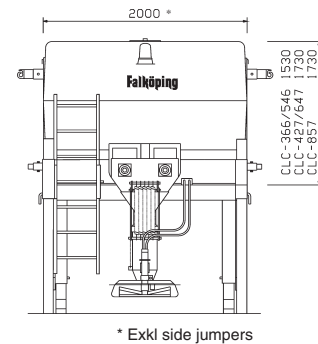
CLC-546

CLC-647

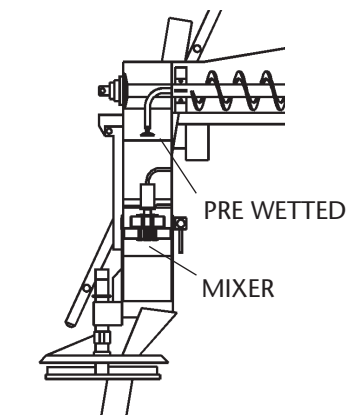
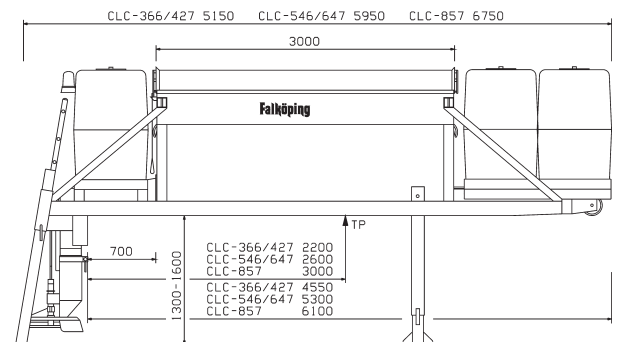
CLC-857



| MODEL | | CLC-366 | CLC-427 | CLC-546 | CLC-647 | CLC-857 | S-MODEL |
|--------------------------------------|--------------------|---------|---------|---------|---------|---------|---------|
| Volume, m ³ | solution | 3.6 | 4.2 | 5.4 | 6.4 | 8.5 | |
| | salt | 6.0 | 7.0 | 6.0 | 7.0 | 7.0 | |
| Weight, kg | | 1 700 | 1 900 | 1 900 | 2 100 | 2 300 | |
| Feedscrew, Qty | | 2 | 2 | 2 | 2 | 2 | 1 |
| Spreading width, m | | 2-8 | 2-8 | 2-8 | 2-8 | 2-8 | |
| Spreading quantity, g/m ² | solution | 5-40 | 5-40 | 5-40 | 5-40 | 5-40 | |
| | salt | 5-30 | 5-30 | 5-30 | 5-30 | 5-30 | |
| Spreading speed, km/hr | max | 60 | 60 | 60 | 60 | 60 | |
| | | | | | | | |
| Hydraulic flow at 1 000 rpm | min | 40 | 40 | 40 | 40 | 40 | |
| | solution/salt, l/m | max | 60 | 60 | 60 | 60 | |
| Hydraulic pressure min. bar | | 150 | 150 | 150 | 150 | 150 | |
| Operating volatage, volts | | 12, 24 | 12, 24 | 12, 24 | 12, 24 | 12, 24 | |



Surface finish: Zink metallized, primer and 2-component topcoat.
Accessories: Hydraulic loading system, remote controlled spreading configuration, side jumpers, disc hoist, mixer, sidetanks, larger tanks, High-speed spreading etc



Mixer

- for making salt slurry.
 Effective disintegration of moistened salt for optimum slippery surface prevention with salt mixture.

High speed spreading

Our combi spreaders in the CLC series can be equipped with spreading nozzles which gives you the possibilities to spread in higher speed. The spreading nozzles completes the spreading disc and are automatically activated when the vehicle drives in higher speed.

- Higher speed when spreading
- Retained spreading pattern
- Automatic activation of the spreading nozzles when the vehicle drives in higher speed



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DISCSPREADER LIQUID

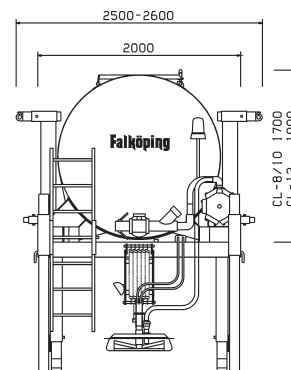
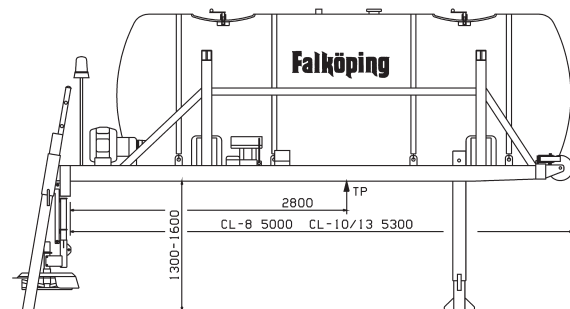
- Liquid spreader with spreading via disc in 8, 10 and 13 m³ models.
- Exact dosage with membrane pump.
- Spreads: salt and calcium chloride

Model
CL-8
CL-10
CL-13



| MODEL | CL-8 | CL-10 | CL-13 |
|--------------------------------------|--------------------------|--------|--------|
| Volume, m ³ | 8.0 | 10.0 | 13.0 |
| Weight, kg | 1 520 | 1 680 | 1 880 |
| Spreading breadth, m | 2-8 | 2-8 | 2-8 |
| Spreading quantity, g/m ² | 5-40 | 5-40 | 5-40 |
| | eller max 320 g/vägmeter | | |
| Spreading speed, km/hr | max | 60 | 60 |
| | 60 | 60 | 60 |
| Hydraulic flow at 1 000 rpm | 40 | 40 | 40 |
| min solution/salt, l/min max | 60 | 60 | 60 |
| Hydraulic pressure min. bar | 150 | 150 | 150 |
| Operating voltage, volts | 12, 24 | 12, 24 | 12, 24 |

Surface finish: Zinc metallized, primer and 2-component topcoat
Extrautrustning: Hydraulic loading system, remote controlled spreading configuration, side jumpers, disc hoist, high-speed spreading etc



High speed spreading

Our combi spreaders in the CLC series can be equipped with spreading nozzles which gives you the possibilities to spread in higher speed. The spreading nozzles completes the spreading disc and are automatically activated when the vehicle drives in higher speed.

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- Automatic activation of the spreading nozzles when the vehicle drives in higher speed



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DISCSPREADER TRACTOR

Model **TC-05**
 TC-10
 TC-16

- Operation from the tractor hydraulic system.
- Spreading width and quantity adjustment from the drivers cab.
- Instrument panel C-365, C-312 or PDA
- Spreads: sand, salt, shingle and calcium chloride

TECHNICAL SPECIFICATION | DISCSPREADER TRACTOR

| MODEL | TC-05 | TC-10 | TC-16 |
|--------------------------------------|-------|-------|-------|
| Volume sand/salt, m ³ | 0.5 | 1.0 | 1.6 |
| Empty weight, kg | 310 | 370 | 430 |
| Length, m | 0.75 | 0.95 | 0.95 |
| Width, m | 1.50 | 1.50 | 2.00 |
| Height, m | 1.35 | 1.50 | 1.60 |
| Oil flow, l/min | 30-60 | 30-60 | 30-60 |
| Oil pressure, bar | >150 | >150 | >150 |
| Total weight | | | |
| – sand, kg | 1.100 | 2.000 | 3.000 |
| – salt, kg | 900 | 1.500 | 2.300 |
| Spreading breadth, m | 2-8 | 2-8 | 2-8 |
| Spreading quantity, g/m ² | 5-200 | 5-200 | 5-200 |

Accessories: Pre wettening, mixer



De-icing of artificial turf.



Spreading disc in retracted position.



Falköping DISCSPREADER SPECIAL



Spreaders for special applications can be manufactured on order. Airport spreaders, chassis mounted spreaders, etc.

*– any kind of spreader
can be built...*

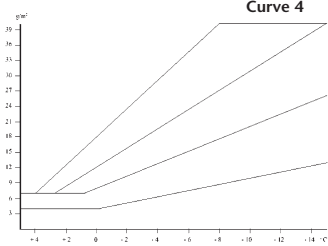




ACCESSORIES / OPTIONAL EQUIPMENT



EXAMPLE: SALT LIQUID



Curve 4

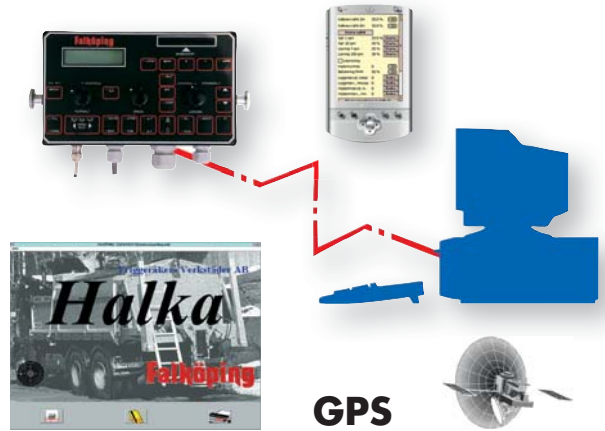
Curve 3
Preventive, very wet roadsurface

Curve 2
Preventive, wet roadsurface

Curve 1
Preventive, moistened roadsurface

IR-AUTOMATIC

Automatic dosage of salt liquid and salt according to road surface temperature. 4 dose curves for different road conditions. The display shows the road and air temperature.



GPS

(Globalt Positionerings System)¹

DATA COLLECTION

For control and read-off of running history of all actual values controlled from the instrument panel. The system can be complemented with GPS for automatic route determination. The controller can communicate via GSM telephone. The temperature of the road surface can be used for automatic salt dosage control.



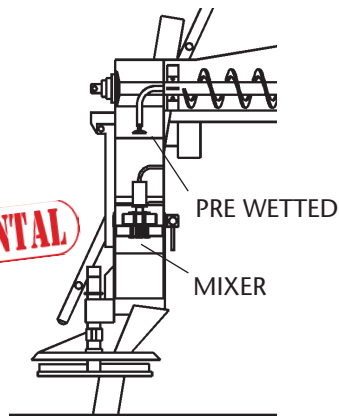
JET NOZZLES FOR DUSTCONTROL

With the jet nozzles mounted on the CL/CLC-series is easily equipped for dustcontrol with MgCl.

- The existing standard pump is supplemented with pressure equalization clock and a quick release camlock.
- Spreads maximum 1000 l/km at 20 km/hr
- Height above ground 50 cm
- Spreading breadth 3.0 m
- Quick mounting on existing standard riggers.



PRO-ENVIRONMENTAL



Mixer

For making salt slurry. Effective disintegration of pre wetted salt for optimum slippery surface prevention with salt mixture.



LOAD CARRIER FRAME

Simple fitting without having to disturb spreader.



PRE WETTING

Front tank insulated/non-insulated or side tanks with pull-down refilling and overflow guards – automatically reduces spreading material equipment by 30%.

SUSPENSION GANTRY

Capacity 10 tons.

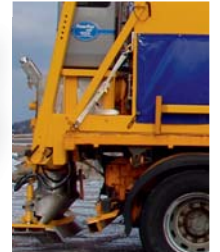
ADJUSTABLE SPREADING CONFIGURATION

Hydraulically adjustable from instrument panel – rational and reliable.



DISC HOIST

Controlled from instrument panel. Prevents damage to disc.



HYDRAULIC OPERATION

The spreader is hydraulically powered as standard, with optional runner wheel or motor power. The spreader can always be driven hydraulically, even when runner wheel or motor power is fitted.



HIGH SPEED SPREADING

Our combi spreaders in the CLC series can be equipped with spreading nozzles which gives you the possibilities to spread in higher speed. The spreading nozzles completes the spreading disc and are automatically activated when the vehicle drives in higher speed.

- Higher speed when spreading
- Retained spreading pattern
- Automatic activation of the spreading nozzles when the vehicle drives in higher speed



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Verkstäder AB

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