



Machinery Catalog

Spreaders

CynkoMet®

TRADITION SINCE

1956

**CZARNA
BIAŁOSTOCKA**

ABOUT US

The tradition of manufacturing agricultural machinery in Czarna Białostocka reaches back to 1956. The factory under the name Wytwórnia Wyrobów Precyzyjnych (Precision Products Manufactory) started production with the first RT 1 single-axle manure spreader. In 1958, production of a household electrical washing machine was started, which became the second basic product after the manure spreader. At the beginning of the sixties, the factory manufactured the "Szron" household refrigerator, followed by the Szron Lux 125.

The next stage of the factory's development took place during the years 1967 - 1976, changing the entire city of Czarna Białostocka. In 1973, the company changed its name to Fabryka Maszyn Rolniczych Czarna Białostocka "Agromet" ("Agromet" Agricultural Machinery Factory Czarna Białostocka), specializing in the production of an entire range of manure spreaders, original agricultural trailer designs, and other agricultural machines.

Cynkomet Sp. z o.o. was founded on 22 May 2003. Since the beginning of our existence, we have been continuing the manufacture of agricultural machinery.

Our products include, among other things: manure spreaders, agricultural trailers, dump wagons, platforms for bales, trailers for animal transportation.

2004 marked a new stage of the company's development, thanks to which a new hot galvanization shop was launched, one of the most modern and biggest in Poland. It was created based on the latest Western-European technical and technological solutions. Continuous investments in and growth of the enterprise gave fruit in the opening of another hot galvanization shop in 2008 in Wyszaków.

In March 2016, a fully automated hot galvanization shop for small elements was launched.

As part of expansion of the distribution network, the company established a logistical point in Suwałki at the beginning of 2019. Through this point, Cynkomet will receive orders for the service of galvanizing metal parts and present its agricultural machines.





SPREADERS

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The data contained in the catalog is for illustrative purposes only. Due to the improvement process, these data may change. The manufacturer reserves the right to introduce changes to the product at any time. Product parameters may change without notice.

N-200 DZIK

MINI MANURE SPREADER N-200 „DZIK” | 0.8 T



0,8 TON

TECHNICAL DATA

| | |
|--|--|
| Administrative loading capacity | 800 kg |
| Technical loading capacity | 800 kg |
| Gross vehicle weight rating (PL regulations) | 1320 kg |
| Unladen mass | ~ 520 kg |
| Number of axles | 1 |
| Spreading adapter type | A2H - 2 horizontal beaters |
| Length | 3020 mm |
| Width | 1400 mm |
| Height | Transportation / working 1100 / 1730 mm |
| Length of internal loading space (upper) | 1560 mm |
| Loading box internal width | 700 mm |
| Loading box side walls height | 520 mm |
| Height of the platform above the ground | 480 mm |
| Loading height | 990 mm |
| Floor/side walls thickness | 3/3 mm |
| Floor conveyor drive type | Mechanical, wheel driven |
| Spreading adapter type | Mechanical, wheel driven |
| Opening side walls | Nie |

DETAILED SPECIFICATION

| | |
|---|---------------|
| Loading capacity (loading 5 cm above the side walls height) | 0,6 m3 |
| Track of wheels | 1 170 mm |
| Suspension | Rigid axle |
| Maximum towing eye (drawbar) load | 120 kg |
| Drawbar coupling height (bottom position) | 350 mm |
| Maximum permissible axle load | 1200 kg |
| Wheel size (tyre / rim) | 23x8.5-12 |
| Design speed (transport) | 15 km/h |
| Required tractor power | 14,7kW / 20KM |
| Spreading width (depending on manure type) | ~1 m |



HOT-DIP GALVANIZED
CONSTRUCTION

STANDARD EQUIPMENT

520mm hot-dip galvanized side walls
Wheel driven A2H horizontal shovel spreading adapter
Hot-dip galvanized galvanized box floor
Hot-dip galvanized galvanized drawbar
Wheel driven spreading adapter and floor conveyor (regulated speed)
Hot-dip galvanized galvanized guillotine
Hot-dip galvanized galvanized spreading adapter cover
Removable protective front cover (operator's safety)
Ball towing eye K50
Hot-dip galvanized construction
Foldable drawbar support with rubber coated wheel
Hot-dip galvanized floor conveyor chain
Removable hot-dip galvanized floor conveyor bars
New 23x8.5-12 wheels
Differential mechanism for easy manoeuvring

OPTIONAL EQUIPMENT

40mm or 50mm towing eye
Warning triangle for slow-moving vehicles



N-233/4

MANURE SPREADER N-233/4 | 3.5 T



3,5 TON

TECHNICAL DATA

| | |
|---|---------------------------------|
| Administrative loading capacity | ~ 3 500 kg * |
| Technical loading capacity | ~ 3 500 kg * |
| Gross vehicle weight rating according to PL regulations | 5 220 kg |
| Unladen mass | ~ 1 720 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 120 mm |
| Height | 2 720 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 1 070 mm |
| Loading Height | 1 570 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|--------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 430 mm |
| Drawbar coupling height (upper position) | 900 mm |
| Maximum permissible axle load | 3 900 kg |
| Wheel size (tyre / rim) | 11,5/80-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls
A2HS spreading adapter - 2 horizontal hot dip galvanized snail drums
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Single line pneumatic brake system
New wheels 11,5/80-15,3
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity!)*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 400/60-15,5
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye



N-233/4 EU

MANURE SPREADER N-233/4 EU | 4 T



4 TON

TECHNICAL DATA

| | |
|---|---------------------------------|
| Type / Variant according to EU homologation certificate | N-1 110 11 |
| Administrative loading capacity | ~ 3 980 kg * |
| Technical loading capacity | ~ 3 980 kg * |
| Gross vehicle weight rating according to PL regulations | 5 700 kg |
| Gross vehicle weight rating according to Directive 2015/208 | 3 900 kg |
| Unladen mass | ~ 1 720 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 120 mm |
| Height | 2 720 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 1 070 mm |
| Loading Height | 1 570 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|--------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 430 mm |
| Drawbar coupling height (upper position) | 900 mm |
| Maximum permissible axle load | 3 900 kg |
| Wheel size (tyre / rim) | 11,5/80-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls
A2HS spreading adapter - 2 horizontal hot dip galvanized snail drums
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
New wheels 11,5/80-15,3
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity!)
*(not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 400/60-15,5
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye



N-233/4-1

MANURE SPREADER N-233/4-1RM | 3.5 T



3,5 TON

TECHNICAL DATA

| | |
|---|---------------------------------|
| Administrative loading capacity | ~ 3 500 kg * |
| Technical loading capacity | ~ 3 500 kg * |
| Gross vehicle weight rating according to PL regulations | 5 220 kg |
| Unladen mass | ~ 1 720 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 120 mm |
| Height | 2 720 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 1 070 mm |
| Loading Height | 1 570 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Yes |

DETAILED SPECIFICATION

| | |
|---|--------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 430 mm |
| Drawbar coupling height (upper position) | 900 mm |
| Maximum permissible axle load | 3 900 kg |
| Wheel size (tyre / rim) | 11,5/80-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls (divided and opening for better access to the loading box from the side)
A2HS spreading adapter - 2 horizontal hot dip galvanized snail drums
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Single line pneumatic brake system
New wheels 11,5/80-15,3
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 400/60-15,5
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye



N-233/4-1 EU

MANURE SPREADER N-233/4-1 EU | 3.9 T



3,9 TONY

TECHNICAL DATA

| | |
|---|---------------------------------|
| Type/Version according to EU homologation certificate | N-1 110 11 |
| Administrative loading capacity | ~ 3 980 kg * |
| Technical loading capacity | ~ 3 980 kg * |
| Gross vehicle weight according to PL regulations | 5 700 kg |
| Gross vehicle weight According to Directive 2015/208 | 3 900 kg |
| Unladen mass | ~ 1 720 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 120 mm |
| Height | 2 720 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 1 070 mm |
| Loading Height | 1 570 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Yes |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m ³ (bulk 4 m ³) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 430 mm |
| Drawbar coupling height (upper position) | 900 mm |
| Maximum permissible axle load | 3 900 kg |
| Wheel size (tyre / rim) | 11,5/80-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



**EUROPEAN
HOMOLOGATION**



**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls (divided and opening for better access to the loading box from the side).
A2HS spreading adapter - 2 horizontal hot dip galvanized snail drums
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh (safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
New wheels 11,5/80-15,3
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 400/60-15,5
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye

N-233/4-2

MANURE SPREADER N-233/4-2 | 3.5 T



3,5 TONY

TECHNICAL DATA

| | |
|---|-------------------------------|
| Administrative loading capacity | ~ 3 500 kg * |
| Technical loading capacity | ~ 3 500 kg * |
| Gross vehicle weight rating according to PL regulations | 5 540 kg |
| Unladen mass | ~ 2 400 kg * |
| Number of axles | 1 |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 5 810 mm |
| Width | 2 100 mm |
| Height | 2 720 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 1 070 mm |
| Loading Height | 1 570 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Yes |

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m ³ (bulk 4 m ³) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 430 mm |
| Drawbar coupling height (upper position) | 900 mm |
| Maximum permissible axle load | 3 900 kg |
| Wheel size (tyre / rim) | 11,5/80-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~4 - 6 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls (divided and opening for better access to the loading box from the side)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
New wheels 11,5/80-15,3
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 400/60-15,5
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye



N-233/4-2 EU

MANURE SPREADER N-233/4-2 EU | 3.9 T



3,9 TONY

TECHNICAL DATA

| | |
|---|-------------------------------|
| Type / Variant according to EU homologation certificate | N-1 110 11 |
| Administrative loading capacity | ~ 3 980 kg * |
| Technical loading capacity | ~ 3 980 kg * |
| Gross vehicle weight rating - PL regulations | 5 700 kg |
| Gross vehicle weight rating - Directive 2015/208 | 3 900 kg |
| Unladen mass | ~ 2 040 kg * |
| Number of axles | 1 |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 5 810 mm |
| Width | 2 100 mm |
| Height | 2 720 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 1 070 mm |
| Loading Height | 1 570 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Tak |

* - Unladen mass and loading capacity may vary depending on equipment
 ** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m ³ (bulk 4 m ³) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 430 mm |
| Drawbar coupling height (upper position) | 900 mm |
| Maximum permissible axle load | 3 900 kg |
| Wheel size (tyre / rim) | 11,5/80-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~4 - 6 m** |

 **EUROPEAN
HOMOLOGATION**

 **HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls (divided and opening for better access to the loading box from the side)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
New wheels 11,5/80-15,3
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 400/60-15,5
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye

N-233/5

MANURE SPREADER N-233/5 | 4.5 T



4,5 TONY

TECHNICAL DATA

| | |
|---|-------------------------------|
| Administrative loading capacity | ~ 4 500 kg * |
| Technical loading capacity | ~ 4 500 kg * |
| Gross vehicle weight rating according to PL regulations | 6 340 kg |
| Unladen mass | ~ 1 840 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 120 mm |
| Height | 2 735 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 720 mm |
| Loading box side walls height | 750 mm |
| Height of the platform above the ground | 1 085 mm |
| Loading Height | 1 835 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Nie |

DETAILED SPECIFICATION

| | |
|---|-----------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (usypowa 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 445 mm |
| Drawbar coupling height (upper position) | 915 mm |
| Maximum permissible axle load | 5 000 kg |
| Wheel size (tyre / rim) | 400/60-15,5 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

750mm high, 2 mm thick hot-dip galvanized side walls
Adapter A2HS - 2 bębny ślimakowe poziome, ocynkowany ogniowo
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Single line pneumatic brake system
New wheels 400/60-15,5
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye



N-233/5 EU

MANURE SPREADER N-233/5 EU | 4.5 T



4,5 TON

TECHNICAL DATA

| | |
|---|---------------------------------|
| Type / Variant / Version according to EU homologation certificate | N-1 310 11 |
| Administrative loading capacity | ~ 4 560 kg * |
| Technical loading capacity | ~ 4 560 kg * |
| Gross vehicle weight rating - PL regulations | 6 400 kg |
| Gross vehicle weight rating - Directive 2015/208 | 4 600 kg |
| Unladen mass | ~ 1 840 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 120 mm |
| Height | 2 735 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 720 mm |
| Loading box side walls height | 750 mm |
| Height of the platform above the ground | 1 085 mm |
| Loading Height | 1 835 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | NO |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|--------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 445 mm |
| Drawbar coupling height (upper position) | 915 mm |
| Maximum permissible axle load | 4 600 kg |
| Wheel size (tyre / rim) | 400/60-15,5 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~4 - 6 m** |



**EUROPEAN
HOMOLOGATION**



**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

750mm high, 2 mm thick hot-dip galvanized side walls
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
New wheels 400/60-15,5
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 400/60-15,5
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye

N-233/6

MANURE SPREADER N-233/6 | 4.5 T



4,5 TON

TECHNICAL DATA

| | |
|---|---------------------------------|
| Administrative loading capacity | ~ 4 500 kg * |
| Technical loading capacity | ~ 4 660 kg * |
| Gross vehicle weight rating according to PL regulations | 6 640 kg |
| Unladen mass | ~ 2 140 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 100 mm |
| Height | 2 735 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 720 mm |
| Loading box side walls height | 750 mm |
| Height of the platform above the ground | 1 085 mm |
| Loading Height | 1 835 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Nie |

DETAILED SPECIFICATION

| | |
|---|-------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 445 mm |
| Drawbar coupling height (upper position) | 915 mm |
| Maximum permissible axle load | 5 000 kg |
| Wheel size (tyre / rim) | 400/60-15,5 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~4 - 6 m** |



**HOT-DIP GALVANIZED
CONSTRUCTION**

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

750mm high, 2 mm thick hot-dip galvanized side walls
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Single line pneumatic brake system
New wheels 400/60-15,5
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye



N-233/6 EU

MANURE SPREADER N-233/6 EU | 4.5 T



4,5 TON

TECHNICAL DATA

| | |
|--|---------------------------------|
| Type / Version according to EU homologation | N-1 310 11 |
| Administrative loading capacity | ~ 4 500 kg * |
| Technical loading capacity | ~ 4 500 kg * |
| Gross vehicle weight rating - PL regulations | 6 640 kg |
| Gross vehicle weight rating - Directive 2015/208 | 4 850 kg |
| Unladen mass | ~ 2 140 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 810 mm |
| Width | 2 100 mm |
| Height | 2 735 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 720 mm |
| Loading box side walls height | 750 mm |
| Height of the platform above the ground | 1 085 mm |
| Loading Height | 1 835 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Nie |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 5 m ³ (bulk 5,6 m ³) |
| Track of wheels | 1 500 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 1 800 kg |
| Drawbar coupling height (bottom position) | 445 mm |
| Drawbar coupling height (upper position) | 915 mm |
| Maximum permissible axle load | 4 850 kg |
| Wheel size (tyre / rim) | 400/60-15,5 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~4 - 6 m** |



EUROPEAN
HOMOLOGATION



HOT-DIP GALVANIZED
CONSTRUCTION

STANDARD EQUIPMENT

750mm high, 2 mm thick hot-dip galvanized side walls
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye (215/208)
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3 profile
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
New wheels 400/60-15,5
Renowned ADR axle, 70 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
Rigid suspension

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity!)*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle
40mm towing eye



N-235/1

MANURE SPREADER N-235/1 | 4 T



4 TON

TECHNICAL DATA

| | |
|---|---------------------------------------|
| Administrative loading capacity | ~ 4 000 kg * |
| Technical loading capacity | ~ 4 000 kg * |
| Gross vehicle weight rating according to PL regulations | ~5 840 kg |
| Unladen mass | ~ 1 840 kg * |
| Number of axles | 2 (front axle steering with knuckles) |
| Spreading adapter type | A2H - 2 horizontal finger drums |
| Length | 5 645 mm |
| Width | 2 120 mm |
| Height | 2 605 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 955 mm |
| Loading Height | 1 455 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|--|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | Rocking levers with rubber shock absorbers |
| Drawbar coupling height (bottom position) | 250 mm |
| Drawbar coupling height (upper position) | 600 mm |
| Maximum permissible axle load | 1. - 3 100 kg, 2. - 3 100 kg |
| Wheel size (tyre / rim) | 10/75-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



**HOT-DIP GALVANIZED
CONSTRUCTION**

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls
A2H spreading adapter - 2 hot-dip galvanized horizontal finger drums
Straight hot dip-galvanized lower agricultural hitch drawbar with 50mm towing eye
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Welded 50mm drawbar towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Foldable drawbar support
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
New wheels 10,0/75-15,3
Renowned rear ADR axle, 70 mm square cross section, 300x60 brakes, front unbraked axle with steering knuckles designed and manufactured by Cynkomet
Two wheel chocks in galvanized pockets
Suspension - rocker arms with rubber shock absorbers



OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle

N-235/2

MANURE SPREADER N-235/2 | 4 T



4 TON

TECHNICAL DATA

| | |
|---|---------------------------------------|
| Administrative loading capacity | ~ 4 000 kg * |
| Technical loading capacity | ~ 4 000 kg * |
| Gross vehicle weight rating according to PL regulations | ~5 840 kg |
| Unladen mass | ~ 1 840 kg * |
| Number of axles | 2 (front axle steering with knuckles) |
| Spreading adapter type | A2HS - 2 horizontal snail drums |
| Length | 5 645 mm |
| Width | 2 120 mm |
| Height | 2 605 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 955 mm |
| Loading Height | 1 455 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|--|--|
| Loading capacity) | 3,5 m3 bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | Rocking levers with rubber shock absorbers |
| Drawbar coupling height (bottom position) | 250 mm |
| Drawbar coupling height (upper position) | 600 mm |
| Maximum permissible axle load | 1. - 3 100 kg, 2. - 3 100 kg |
| Wheel size (tyre / rim) | 10/75-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



HOT-DIP GALVANIZED CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
 ** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls
A2HS spreading adapter - 2 hot-dip galvanized horizontal snail drums
Straight hot dip-galvanized lower agricultural hitch drawbar with 50mm towing eye
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Welded 50mm drawbar towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Foldable drawbar support
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
New wheels 10,0/75-15,3
Renowned rear ADR axle, 70 mm square cross section, 300x60 brakes, front unbraked axle with steering knuckles designed and manufactured by Cynkomet
Two wheel chocks in galvanized pockets
Suspension - rocker arms with rubber shock absorbers

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
(not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle



N-235/6

MANURE SPREADER N-235/6 | 4 T



4 TON

TECHNICAL DATA

| | |
|---|---------------------------------------|
| Administrative loading capacity | ~ 4 000 kg * |
| Technical loading capacity | ~ 4 000 kg * |
| Gross vehicle weight rating according to PL regulations | ~5 840 kg |
| Unladen mass | ~ 1 840 kg * |
| Number of axles | 2 (front axle steering with knuckles) |
| Spreading adapter type | A2H - 2 horizontal finger drums |
| Length | 5 705 mm |
| Width | 2 120 mm |
| Height | 2 640 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 990 mm |
| Loading Height | 1 490 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|------------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | parabolic leaf springs |
| Drawbar coupling height (bottom position) | 250 mm |
| Drawbar coupling height (upper position) | 600 mm |
| Maximum permissible axle load | 1. - 3 100 kg, 2. - 3 100 kg |
| Wheel size (tyre / rim) | 10/75-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls
A2H spreading adapter - 2 hot-dip galvanized horizontal finger drums
Straight hot dip-galvanized lower agricultural hitch drawbar with 50mm towing eye
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Welded 50mm drawbar towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Foldable drawbar support
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
New wheels 10,0/75-15,3
Renowned rear ADR axle, 70 mm square cross section, 300x60 brakes, front unbraked axle with steering knuckles designed and manufactured by Cynkomet
Two wheel chocks in galvanized pockets
Suspension - parabolic leaf springs

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
*(* not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle



N-235/7

MANURE SPREADER N-235/7 | 4 T



4 TON

TECHNICAL DATA

| | |
|---|---------------------------------------|
| Administrative loading capacity | ~ 4 000 kg * |
| Technical loading capacity | ~ 4 000 kg * |
| Gross vehicle weight rating according to PL regulations | ~5 840 kg |
| Unladen mass | ~ 1 840 kg * |
| Number of axles | 2 (front axle steering with knuckles) |
| Spreading adapter type | A2HS - 2 2 horizontal snail drums |
| Length | 5 705 mm |
| Width | 2 120 mm |
| Height | 2 640 mm |
| Length of internal loading space (upper) | 3 770 mm |
| Loading box internal width | 1 735 mm |
| Loading box side walls height | 500 mm |
| Height of the platform above the ground | 990 mm |
| Loading Height | 1 490 mm |
| Floor/side walls thickness | 4/2 mm |
| Floor conveyor drive type | Mechanical, PTO shaft driven |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|------------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 3,5 m3 (bulk 4 m3) |
| Track of wheels | 1 500 mm |
| Suspension | parabolic leaf springs |
| Drawbar coupling height (bottom position) | 250 mm |
| Drawbar coupling height (upper position) | 600 mm |
| Maximum permissible axle load | 1. - 3 100 kg, 2. - 3 100 kg |
| Wheel size (tyre / rim) | 10/75-15,3 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 33kW / 45KM |
| Spreading width (depending on manure type) | ~2 - 3 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

500 mm high, 2 mm thick hot-dip galvanized side walls
A2Hs spreading adapter - 2 hot-dip galvanized horizontal snail drums
Straight hot dip-galvanized lower agricultural hitch drawbar with 50mm towing eye
Mechanical, PTO driven floor conveyor with 9-step speed regulation
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Welded 50mm drawbar towing eye
Hot-dip galvanized frame based on 160 mm channel sections
Foldable drawbar support
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars made of 50x25x3
Parking hand brake with crank
Ductile iron socket chain wheels
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
New wheels 10,0/75-15,3
Renowned rear ADR axle, 70 mm square cross section, 300x60 brakes, front unbraked axle with steering knuckles designed and manufactured by Cynkomet
Two wheel chocks in galvanized pockets
Suspension - parabolic leaf springs

OPTIONAL EQUIPMENT

500mm hot-dip galvanized volumetric extensions with rear opening wall (gravity)
(not possible to use extensions along with spreading adapter)
500mm hot-dip galvanized rear wall (mounted instead of spreading adapter)
Hydraulic drawbar support
Spreading deflector (applies only to vertical spreading adapters)
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
PTO shaft
Wide angle PTO shaft
Warning triangle for slow-moving vehicle



N-221/3

MANURE SPREADER N-221/3 | 8T



TECHNICAL DATA

| | |
|---|-------------------------------|
| Administrative loading capacity | ~ 8 000 kg * |
| Technical loading capacity | ~ 8 000 kg * |
| Gross vehicle weight rating according to PL regulations | ~11 740 kg |
| Unladen mass | ~ 3 740 kg * |
| Number of axles | 2 - tandem |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 6 540 mm |
| Width | 2 380 mm |
| Height | 2 770 mm |
| Length of internal loading space (upper) | 4 035 mm |
| Loading box internal width | 2 085 mm |
| Loading box side walls height | 1 000 mm |
| Height of the platform above the ground | 1 320 mm |
| Loading Height | 2 320 mm |
| Floor/side walls thickness | 3/2 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter driver type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|-------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 8,9 m3 |
| Track of wheels | 1 700 mm |
| Suspension | tandem - rocking levers |
| Max. pionowe obciążenie oka dyszla | 2 500 kg |
| Drawbar coupling height (bottom position) | 380 mm |
| Drawbar coupling height (upper position) | 1 020 mm |
| Maximum permissible axle load | 9 500 kg |
| Wheel size (tyre / rim) | 400/60 15,5 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 66kW / 90KM |
| Spreading width (depending on manure type) | ~6 - 8 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

1000 mm high, 2 mm thick hot-dip galvanized side walls
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
New wheels 400/60-15,5
Rocking levers suspension with driveshafts designed and produced by CynkoMet, 300x60 brakes
Two wheel chocks in galvanized pockets
PTO shaft

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Additional hydraulic distributor for tractors with only two hydraulic sockets - controls for hydraulic guillotine, hydraulic drawbar support, engaging and disengaging floor conveyor
Hydraulic drawbar support
Spreading deflector
Hydraulic quick-coupler with hose pressure neutralizer built in
New wheels 500/50-17
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin K80 towing eye



N-221/3-1

MANURE SPREADER N-221/3-1 | 6 T

TECHNICAL DATA

| | |
|---|-------------------------------|
| Administrative loading capacity | ~6 000 kg* |
| Technical loading capacity | ~6 000 kg* |
| Gross vehicle weight rating according to PL regulations | 9 200 kg |
| Unladen mass | ~ 3 200 kg* |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 6 540 mm |
| Width | 2 395 mm |
| Height | 2 655 mm |
| Length of internal loading space (upper) | 4 050 mm |
| Loading box internal width | 2 100 mm |
| Loading box side walls height | 750 mm |
| Height of the platform above the ground | 1 340 mm |
| Loading Height | 2 090 mm |
| Floor/side walls thickness | 3/2,5 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

6 TON

DETAILED SPECIFICATION

| | |
|---|------------------|
| Loading capacity (loading 5 cm above the side walls height) | 7 m ³ |
| Track of wheels | 1 800 mm |
| Suspension | rigid |
| Maximum towing eye (drawbar) load | 2 500 kg |
| Drawbar coupling height (bottom position) | 400 mm |
| Drawbar coupling height (upper position) | 1 040 mm |
| Maximum permissible axle load | 7 000 kg |
| Wheel size (tyre / rim) | 500/50-17 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 59kW / 80KM |
| Spreading width (depending on manure type) | ~6-8 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

STANDARD EQUIPMENT

750 mm high, 2 mm thick hot-dip galvanized side walls
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Exchangeable hot-dip galvanized floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars
Ductile iron socket chain wheels
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
New wheels 500/70-17
Renowned ADR axle, 90 mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
PTO shaft
Rigid suspension

OPTIONAL EQUIPMENT

750mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Additional hydraulic distributor for tractors with only two hydraulic sockets - controls for hydraulic guillotine, hydraulic drawbar support, engaging and disengaging floor conveyor
Hydraulic drawbar support
Hydraulic quick-coupler with hose pressure neutralizer built in
Spreading deflector

Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Floor conveyor hydraulic feed with electric control in the tractor cabin
K80 towing eye



N-221/3-3

MANURE SPREADER N-221/3-3 | 6 T



6 TON

TECHNICAL DATA

| | |
|---|-------------------------------|
| Administrative loading capacity | ~6 000 kg* |
| Technical loading capacity | ~6 000 kg* |
| Gross vehicle weight rating according to PL regulations | 9 460 kg |
| Unladen mass | ~ 3 460 kg* |
| Number of axles | 2 - tandem |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 6 540 mm |
| Width | 2 395 mm |
| Height | 2 655 mm |
| Length of internal loading space (upper) | 4 050 mm |
| Loading box internal width | 2 100 mm |
| Loading box side walls height | 750 mm |
| Height of the platform above the ground | 1 330 mm |
| Loading Height | 2 080 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |
| Floor/side walls thickness | 3/2,5 mm |

DETAILED SPECIFICATION

| | |
|---|---------------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 7 m ³ |
| Track of wheels | 1 700 mm |
| Suspension | Tandem - parabolic leaf springs |
| Maximum towing eye (drawbar) load | 2 500 kg |
| Drawbar coupling height (bottom position) | 390 mm |
| Drawbar coupling height (upper position) | 1 030 mm |
| Maximum permissible axle load | 1. - 4 500 kg, 2. - 4 500 kg |
| Wheel size (tyre / rim) | 400/60-15,5 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 59kW / 80KM |
| Spreading width (depending on manure type) | ~6-8 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

750 mm high, 2 mm thick hot-dip galvanized side walls
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Exchangeable hot-dip galvanized floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars
Ductile iron socket chain wheels
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
New wheels 400/60-15,5
Renowned ADR axle, 80mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
PTO shaft
Parabolic leaf spring suspension

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Additional hydraulic distributor for tractors with only two hydraulic sockets - controls for hydraulic guillotine, hydraulic drawbar support, engaging and disengaging floor conveyor
Hydraulic drawbar support
Spreading deflector
Hydraulic quick-coupler with hose pressure neutralizer built in
New wheels 500/50-17
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin
K80 towing eye



N-221/3-3

MANURE SPREADER N-221/3-3 CS-LINE | 6 T



6 TON

TECHNICAL DATA

| | |
|---|-------------------------------|
| Type / Variant / Version according to EU homologation certificate | N-2 320 11 |
| Administrative loading capacity | ~5 780 kg* |
| Technical loading capacity | ~6 000 kg* |
| Gross vehicle weight rating - to PL regulations | 9 800 kg |
| Gross vehicle weight rating - Directive 2015/208 | 7 300 kg |
| Unladen mass | ~ 4 020 kg* |
| Number of axles | 2 - tandem |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 6 525 mm |
| Width | 2 430 mm |
| Height | 2 775 mm |
| Length of internal loading space (upper) | 4 300 mm |
| Loading box internal width | 2 070 / 2 150 mm |
| Loading box side walls height | 800 mm |
| Height of the platform above the ground | 1 330 mm |
| Loading Height | 2 130 mm |
| Floor/side walls thickness | 3/3 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|---------------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 7,2 m ³ |
| Track of wheels | 1 700 mm |
| Suspension | Tandem - parabolic leaf springs |
| Maximum towing eye (drawbar) load | 2 500 kg |
| Drawbar coupling height (bottom position) | 390 mm |
| Drawbar coupling height (upper position) | 1 030 mm |
| Maximum permissible axle load | 1 - 3 650 kg, 2 - 3 650 kg |
| Wheel size (tyre / rim) | 400/60 15,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 59kW / 80KM |
| Spreading width (depending on manure type) | ~6-8 m** |



**EUROPEAN
HOMOLOGATION**



**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

800mm hot-dip galvanized side walls bent of one 3mm thick metal sheet (S355) strengthened with stiffening side profiles
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums, lime board and exchangeable knives
Exchangeable hot-dip galvanized floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars
Parking hand brake with crank
Removable exterior ladder with anti-skid steps facilitating access to loading box
Ductile iron socket chain wheels
European homologation approval
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system with ALB
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
New wheels 400/60-15,5
Renowned ADR axle, 80mm square cross section, 300x60 brakes
Two wheel chocks in galvanized pockets
PTO shaft
Parabolic leaf spring suspension
Spreading adapter protected with automatic clutch
Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading
Wooden floor conveyor slides underneath loading box
Regulated fire galvanized support for hoses and cables
Side wall supports equipped with a reinforced edge seal preventing damages of zinc coating
Rear guillotine opening indicator

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Additional hydraulic distributor for tractors with only two hydraulic sockets - controls for hydraulic guillotine, hydraulic drawbar support, engaging and disengaging floor conveyor
Hydraulic drawbar support
Spreading deflector
Spreading adapter knives made of enhanced steel
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin
K80 towing eye



N-221/3-4

MANURE SPREADER N-221/3-4 | 8 T



8 TON

TECHNICAL DATA

| | |
|---|-------------------------------|
| Administrative loading capacity | ~8 000 kg* |
| Technical loading capacity | ~8 000 kg* |
| Gross vehicle weight rating according to PL regulations | 11 640 kg |
| Unladen mass | ~ 3 640 kg* |
| Number of axles | 2 - tandem |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 6 525 mm |
| Width | 2 380 mm |
| Height | 2 675 mm |
| Length of internal loading space (upper) | 4 035 mm |
| Loading box internal width | 2 085 mm |
| Loading box side walls height | 1 000 mm |
| Height of the platform above the ground | 1 360 mm |
| Loading Height | 2 360 mm |
| Floor/side walls thickness | 3/2,5 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|---------------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 8,9 m ³ |
| Track of wheels | 1 700 mm |
| Suspension | Tandem - parabolic leaf springs |
| Maximum towing eye (drawbar) load | 2 500 kg |
| Drawbar coupling height (bottom position) | 420 mm |
| Drawbar coupling height (upper position) | 1 060 mm |
| Maximum permissible axle load | 1. - 5 000 kg, 2. - 5 000 kg |
| Wheel size (tyre / rim) | 500/50-17 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 66kW / 90KM |
| Spreading width (depending on manure type) | ~6-8 m** |



**HOT-DIP GALVANIZED
CONSTRUCTION**

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

1000 mm high, 2 mm thick hot-dip galvanized side walls
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums and lime board
Exchangeable hot-dip galvanized floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars
Ductile iron socket chain wheels
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
New wheels 500/50-17
Renowned ADR axle, 80mm square cross section, 300x90 brakes
Two wheel chocks in galvanized pockets
PTO shaft
Parabolic leaf spring suspension

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Additional hydraulic distributor for tractors with only two hydraulic sockets - controls for hydraulic guillotine, hydraulic drawbar support, engaging and disengaging floor conveyor
Hydraulic drawbar support
Spreading deflector
Hydraulic quick-coupler with hose pressure neutralizer built in
New wheels 500/50-17
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin
K80 towing eye



N-221/3-4

MANURE SPREADER N-221/3-4 CS-LINE | 8 T



8 TON

TECHNICAL DATA

| | |
|--|-------------------------------|
| Type / Version according to EU homologation | N-2 720 21 |
| Administrative loading capacity | ~8 240 kg* |
| Technical loading capacity | ~8 240 kg* |
| Gross vehicle weight rating - PL regulations | 12 500 kg |
| Gross vehicle weight rating - Directive 2015/208 | 10 000 kg |
| Unladen mass | ~ 4 260 kg* |
| Number of axles | 2 - tandem |
| Spreading adapter type | A4VS - 4 vertical snail drums |
| Length | 6 525 mm |
| Width | 2 400 mm |
| Height | 2 800 mm |
| Length of internal loading space (upper) | 4 300 mm |
| Loading box internal width | 2 070 / 2 150 mm |
| Loading box side walls height | 1 000 mm |
| Height of the platform above the ground | 1 360 mm |
| Loading Height | 2 360 mm |
| Floor/side walls thickness | 3/3 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|---------------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 9 m ³ |
| Track of wheels | 1 700 mm |
| Suspension | Tandem - parabolic leaf springs |
| Maximum towing eye (drawbar) load | 2 500 kg |
| Drawbar coupling height (bottom position) | 420 mm |
| Drawbar coupling height (upper position) | 1 060 mm |
| Maximum permissible axle load | 1. - 5 000 kg, 2. - 5 000 kg |
| Wheel size (tyre / rim) | 500/50-17 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 66kW / 90KM |
| Spreading width (depending on manure type) | ~6-8 m** |



**EUROPEAN
HOMOLOGATION**



**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

1000mm hot-dip galvanized side walls bent of one 3mm thick metal sheet (S355) strengthened with stiffening side profiles
A4VS hot-dip galvanized spreading adapter with 4 vertical snail drums, lime board and exchangeable knives
Exchangeable hot-dip galvanized floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh(safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)
Straight drawbar support with foldable steel wheel
Hot-dip galvanized floor conveyor chain with 11mm links
Replaceable hot-dip galvanized floor conveyor bars
Parking hand brake with crank
Removable exterior ladder with anti-skid steps facilitating access to loading box
Ductile iron socket chain wheels
European homologation approval
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system with ALB
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
New wheels 500/50-17
Renowned ADR axle, 80mm square cross section, 300x90 brakes
Two wheel chocks in galvanized pockets
PTO shaft
Parabolic leaf spring suspension
Spreading adapter protected with automatic clutch
Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading
Wooden floor conveyor slides underneath loading box
Regulated fire galvanized support for hoses and cables
Side wall supports equipped with a reinforced edge seal preventing damages of zinc coating
Rear guillotine opening indicator

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Additional hydraulic distributor for tractors with only two hydraulic sockets - controls for hydraulic guillotine, hydraulic drawbar support, engaging and disengaging floor conveyor
Hydraulic drawbar support
Spreading deflector
Spreading adapter knives made of enhanced steel
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector
Hydraulic quick-coupler with hose pressure neutralizer built in
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin
K80 towing eye



N-221/3-8

MANURE SPREADER N-221/3-8 | 10 T



TECHNICAL DATA

| | |
|---|------------------------------------|
| Administrative loading capacity | ~10 000 kg* |
| Technical loading capacity | ~10 000 kg* |
| Gross vehicle weight rating according to PL regulations | ~16 000 kg* |
| Unladen mass | ~ 5 920 kg * |
| Number of axles | 2 - tandem |
| Spreading adapter type | A2VS - 2 vertical snail step drums |
| Length | 8 430 mm |
| Width | 2 460 mm |
| Height | 3 030 mm |
| Length of internal loading space (upper) | 4 900 mm |
| Loading box internal width | 2 080 mm |
| Loading box side walls height | 1 000 mm |
| Height of the platform above the ground | 1 560 mm |
| Loading Height | 2 560 mm |
| Floor/side walls thickness | 3/2 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 10,7 m ³ |
| Track of wheels | 1 800 mm |
| Suspension | Tandem - parabolic leaf springs |
| Max. vertical drawbar eye load | 3 000 kg (4 000 kg with K80 towing eye) |
| Drawbar coupling height (bottom position) | 565 mm |
| Drawbar coupling height (upper position) | 1 210 mm |
| Maximum permissible axle load | 1. - 7 500 kg, 2. - 7 500 kg |
| Wheel size (tyre / rim) | 550/60-22,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 74kW / 100KM |
| Spreading width (depending on manure type) | 12 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

1000 mm high, 2 mm thick hot-dip galvanized side walls
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized 2-part spreading deflector (upper and lower)
Hot-dip galvanized front protective mesh (safety regulations PN-EN 690:2014-02), foldable for ease of transportation
Exchangeable 50mm towing eye
Hot-dip galvanized galvanized lower frame, stringers made of 200x80x6 profiles
Hot-dip galvanized upper frame welded with 160x60x4 profiles and metallurgical 200mm profile
Hot-dip galvanized floor conveyor chain with 114x50 links
Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles
Straight drawbar support with foldable steel wheel
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Ductile iron socket chain wheels
Renowned ADR axle, 80mm square cross section, 400x80 brakes
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system with ALB
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading
New wheels 550/60-22.5
Two wheel chocks in galvanized pockets
Spreading adapter protected with automatic clutch
Floor conveyor driven by 2 hydraulic gearboxes, 4000 Nm each

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Hydraulic quick-coupler with hose pressure neutralizer built in
New wheels 600/50-22.5
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin



N-221/3-8 EU

MANURE SPREADER N-221/3-8 EU | 10 T



TECHNICAL DATA

| | |
|---|------------------------------------|
| Type / Variant / Version according to EU homologation certificate | N-2 920 51 |
| Administrative loading capacity | ~10 080 kg* |
| Technical loading capacity | ~10 080 kg* |
| Gross vehicle weight rating - PL regulations | 16 000 kg |
| Gross vehicle weight rating - Directive 2015/208 | 13 000 kg |
| Unladen mass | ~ 5 920 kg * |
| Number of axles | 2 - tandem |
| Spreading adapter type | A2VS 2 vertical snailstep drums |
| Length | 8 430 mm |
| Width | 2 460 mm |
| Height | 3 030 mm |
| Length of internal loading space (upper) | 4 900 mm |
| Loading box internal width | 2 080 mm |
| Loading box side walls height | 1 000 mm |
| Height of the platform above the ground | 1560 mm |
| Loading Height | 2560 mm |
| Floor/side walls thickness | 3/2 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 10,7 m ³ |
| Track of wheels | 1 800 mm |
| Suspension | Tandem - parabolic leaf springs |
| Max. vertical drawbar eye load | 3 000 kg (4 000 kg with K80 towing eye) |
| Drawbar coupling height (bottom position) | 565 mm |
| Drawbar coupling height (upper position) | 1 210 mm |
| Maximum permissible axle load | 1. - 6 500 kg, 2. - 6 500 kg |
| Wheel size (tyre / rim) | 550/60-22,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 74kW / 100KM |
| Spreading width (depending on manure type) | ~12 m** |



EUROPEAN
HOMOLOGATION



HOT-DIP GALVANIZED
CONSTRUCTION

STANDARD EQUIPMENT

1000 mm high, 2 mm thick hot-dip galvanized side walls
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized 2-part spreading deflector(upper and lower)
Hot-dip galvanized front protective mesh(safety regulations PN-EN 690:2014-02), foldable for ease of transportation
Exchangeable 50mm towing eye
Hot-dip galvanized galvanized lower frame, stringers made of 200x80x6 profiles
Hot-dip galvanized upper frame welded with 160x60x4 profiles and metallurgical 200mm profile
Hot-dip galvanized floor conveyor chain with 114x50 links
Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles
Straight drawbar support with foldable steel wheel
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Ductile iron socket chain wheels
Renowned ADR axle, 80mm square cross section, 400x80 brakes
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system with ALB
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading
New wheels 550/60-22.5
Two wheel chocks in galvanized pockets
Spreading adapter protected with automatic clutch
Floor convey driven by 2 hydraulic gearboxes, 4000 Nm each
EU homologation approval

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Hydraulic quick-coupler with hose pressure neutralizer built in
New wheels 600/50-22.5
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin

N-221/3-9

MANURE SPREADER N-221/3-9 | 12 T



12 TON

TECHNICAL DATA

| | |
|---|-------------------------------------|
| Administrative loading capacity | ~12 000 kg* |
| Technical loading capacity | ~12 000 kg* |
| Gross vehicle weight rating according to PL regulations | ~18 180 kg* |
| Unladen mass | ~ 6 180 kg * |
| Number of axles | 2 - tandem |
| Spreading adapter type | A2VS 2 vertical snail/step drums |
| Length | 8 430 mm |
| Width | 2 460 mm |
| Height | 3 030 mm |
| Length of internal loading space (upper) | 4 900 mm |
| Loading box internal width | 2 080 mm |
| Loading box side walls height | 1 350 mm |
| Height of the platform above the ground | 1 560 mm |
| Loading Height | 2 910 mm |
| Floor/side walls thickness | 3/2 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 14,3 m3 |
| Track of wheels | 1 800 mm |
| Suspension | Tandem - parabolic leaf springs |
| Max. vertical drawbar eye load | 3 000 kg (4 000 kg with K80 towing eye) |
| Drawbar coupling height (bottom position) | 565 mm |
| Drawbar coupling height (upper position) | 1 210 mm |
| Maximum permissible axle load | 1. - 8 000 kg, 2. - 8 000 kg |
| Wheel size (tyre / rim) | 550/60-22,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 74kW / 100KM |
| Spreading width (depending on manure type) | ~ 12 m** |



**HOT-DIP GALVANIZED
CONSTRUCTION**

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

1000 mm high, 2 mm thick hot-dip galvanized side walls
350mm fire galvanized one side hydraulically opening (made of 60x30x3 profiles and 2mm metal sheet)
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized 2-part spreading deflector(upper and lower)
Hot-dip galvanized front protective mesh(safety regulations PN-EN 690:2014-02), foldable for ease of transportation
Exchangeable 50mm towing eye
Hot-dip galvanized galvanized lower frame, stringers made of 200x80x6 profiles
Hot-dip galvanized upper frame welded with 160x60x4 profiles and metallurgical 200mm profile
Hot-dip galvanized floor conveyor chain with 114x50 links
Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles
Straight drawbar support with foldable steel wheel
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Ductile iron socket chain wheels
Renowned ADR axle, 80mm square cross section, 400x80 brakes
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system with ALB
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading
New wheels 550/60-22.5
Two wheel chocks in galvanized pockets
Spreading adapter protected with automatic clutch
Floor convey driven by 2 hydraulic gearboxes, 4000 Nm each

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Hydraulic quick-coupler with hose pressure neutralizer built in
New wheels 600/50-22.5
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin

N-221/3-9 EU

MANURE SPREADER N-221/3-9 | 12 T



12 TON

TECHNICAL DATA

| | |
|--|------------------------------------|
| Administrative loading capacity | ~12 820 kg* |
| Technical loading capacity | ~12 820 kg* |
| Gross vehicle weight rating - PL regulations | 19 000 kg |
| Gross vehicle weight rating - Directive 2015/208 | 16 000 kg |
| Unladen mass | ~ 6 180 kg * |
| Number of axles | 2 - tandem |
| Spreading adapter type | A2VS - 2 vertical snail/step drums |
| Length | 8 430 mm |
| Width | 2 460 mm |
| Height | 3 030 mm |
| Length of internal loading space (upper) | 4 900 mm |
| Loading box internal width | 2 080 mm |
| Loading box side walls height | 1 350 mm |
| Height of the platform above the ground | 1560 mm |
| Loading Height | 2910 mm |
| Floor/side walls thickness | 3/2 mm |
| Floor conveyor drive type | Hydrauliczny |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Nie |

DETAILED SPECIFICATION

| | |
|---|-----------------------------------|
| Loading capacity (loading 5 cm above the side walls height) | 14,3 m ³ |
| Track of wheels | 1 800 mm |
| Suspension | Tandem - resory paraboliczne |
| Max. vertical drawbar eye load | 3 000 kg (4 000 kg z ciągnem K80) |
| Drawbar coupling height (bottom position) | 565 mm |
| Drawbar coupling height (upper position) | 1 210 mm |
| Maximum permissible axle load | 1. - 8 000 kg, 2. - 8 000 kg |
| Wheel size (tyre / rim) | 550/60-22,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 74kW / 100KM |
| Spreading width (depending on manure type) | ~12 m** |



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**HOT-DIP GALVANIZED
CONSTRUCTION**

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

1000 mm high, 2 mm thick hot-dip galvanized side walls
350mm fire galvanized one side hydraulically opening (made of 60x30x3 profiles and 2mm metal sheet)
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector
Hot-dip galvanized exchangeable floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized 2-part spreading deflector(upper and lower)
Hot-dip galvanized front protective mesh(safety regulations PN-EN 690:2014-02), foldable for ease of transportation
Exchangeable 50mm towing eye
Hot-dip galvanized galvanized lower frame, stringers made of 200x80x6 profiles
Hot-dip galvanized upper frame welded with 160x60x4 profiles and metallurgical 200mm profile
Hot-dip galvanized floor conveyor chain with 114x50 links
Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles
Straight drawbar support with foldable steel wheel
Parking hand brake with crank
Exterior ladder with anti-skid steps facilitating access to loading box
Ductile iron socket chain wheels
Renowned ADR axle, 80mm square cross section, 400x80 brakes
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system with ALB
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading
New wheels 550/60-22.5
Two wheel chocks in galvanized pockets
Spreading adapter protected with automatic clutch
Floor convey driven by 2 hydraulic gearboxes, 4000 Nm each
EU homologation

OPTIONAL EQUIPMENT

800mm volumetric extensions with hydraulically lifted rear wall included* (* not possible to use extensions along with spreading adapter)
Hydraulic quick-coupler with hose pressure neutralizer built in
New wheels 600/50-22.5
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin

NRN „Aligator”

MANURE SPREADER NRN „ALIGATOR” | 8 T



8 TON

TECHNICAL DATA

| | |
|---|--|
| Administrative loading capacity | ~7 940 kg* |
| Technical loading capacity | ~8 940 kg* |
| Gross vehicle weight rating according to PL regulations | 13 000 kg (14 000 with K80 towing eye) |
| Unladen mass | ~ 5 060 kg* |
| Number of axles | 1 |
| Spreading adapter type | A2VS - 2 vertical snail step drums |
| Length | 8 670 mm |
| Width | 2 900 mm |
| Height | 2 925 mm |
| Length of internal loading space (upper) | 5 350 mm |
| Loading box internal width | 1 480 / 2 115 mm |
| Loading box side walls height | 900 mm |
| Height of the platform above the ground | 1 120 mm |
| Loading Height | 2 025 mm |
| Floor/side walls thickness | 3/3 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|--|
| Loading capacity (loading 5 cm above the side walls height) | 8,35 m3 (bulk 11,9 m3) |
| Track of wheels | 2 350 mm |
| Suspension | parabolic leaf springs |
| Max. vertical drawbar eye load | 3 000 kg (4 000 kg with K80 towing eye) |
| Drawbar coupling height (bottom position) | ~ 515 mm |
| Maximum permissible axle load | 10 000 kg |
| Wheel size (tyre / rim) | 550/60-22,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 66kW / 90KM |
| Spreading width (depending on manure type) | ~8 - 16 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

900mm hot-dip galvanized side walls bent of one 3mm thick metal sheet (S355) strengthened with stiffening side profiles

A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector

Lower and upper frames including side walls are made as 1 construction element to improve the tightness

Rigid drawbar integrated with the frame

Hot-dip galvanized exchangeable floor

Hydraulic floor conveyor drive with stepless regulation and overload valve

Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)

Hot-dip galvanized 2-part spreading deflector(upper and lower)

Hot-dip galvanized front protective mesh (safety regulations PN-EN 690:2014-02), foldable for ease of transportation

Exchangeable 50mm towing eye

Hot-dip galvanized floor conveyor chain with 14x50 links

Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles

New wheels 550/60-22.5

Renowned ADR axle, 100mm square cross section, 406x120 brakes

Two wheel chocks in galvanized pockets

12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers

Double line pneumatic brake system with ALB

Hydraulic installations made of galvanized pipes and flexible hoses

Hydraulic socket type ISO 7241-1 DN 12,5

Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading

Hydraulic drawbar support

Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)

PTO shaft

Exterior ladder with anti-skid steps facilitating access to loading box

Spreading adapter protected with automatic clutch

Floor conveyor driven by 2 hydraulic gearboxes, 4000 Nm each

OPTIONAL EQUIPMENT

Hydraulic quick-coupler with hose pressure neutralizer built in

New wheels 600/50-22.5

Wide angle PTO shaft

Warning triangle for slow-moving vehicles

Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector

Floor conveyor hydraulic feed with electric control in the tractor cabin

K80 towing eye

NRN „Aligator”

MANURE SPREADER NRN „ALIGATOR” TANDEM | 8 T



8 TON

TECHNICAL DATA

| | |
|---|------------------------------------|
| Administrative loading capacity | ~8 050 kg* |
| Technical loading capacity | ~8 050 kg* |
| Gross vehicle weight rating according to PL regulations | 12 500 kg |
| Unladen mass | ~ 4 450 kg* |
| Number of axles | 2 - tandem |
| Spreading adapter type | A2VS - 2 vertical snail/step drums |
| Length | 8 670 mm |
| Width | 2 800 mm |
| Height | 2 815 mm |
| Length of internal loading space (upper) | 5 350 mm |
| Loading box internal width | 1 480 / 2 115 mm |
| Loading box side walls height | 900 mm |
| Height of the platform above the ground | 1 010 mm |
| Loading Height | 1 915 mm |
| Floor/side walls thickness | 3/3 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 8,35 m3 (bulk 11,9 m3) |
| Track of wheels | 2 300 mm |
| Suspension | Tandem -parabolic leaf springs |
| Max. vertical drawbar eye load | 3 000 kg (4 000 k with K80 towing eye) |
| Drawbar coupling height (bottom position) | ~ 405 mm |
| Maximum permissible axle load | 9 500 kg |
| Wheel size (tyre / rim) | 400/60 15,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 70kW / 95KM |
| Spreading width (depending on manure type) | ~8 - 16 m** |



HOT-DIP GALVANIZED
CONSTRUCTION

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

900mm hot-dip galvanized side walls bent of one 3mm thick metal sheet (S355) strengthened with stiffening side profiles
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector

Lower and upper frames including side walls are made as 1 construction element to improve the tightness

Rigid drawbar integrated with the frame

Hot-dip galvanized exchangeable floor

Hydraulic floor conveyor drive with stepless regulation and overload valve

Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)

Hot-dip galvanized 2-part spreading deflector(upper and lower)

Hot-dip galvanized front protective mesh(safety regulations PN-EN 690:2014-02), foldable for ease of transportation

Exchangeable 50mm towing eye

Hot-dip galvanized floor conveyor chain with 14x50 links

Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles

New wheels 400/65 15,5

Renowned ADR axle, 80mm square cross section, 300x90 brakes

Two wheel chocks in galvanized pockets

12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers

Double line pneumatic brake system with ALB

Hydraulic installations made of galvanized pipes and flexible hoses

Hydraulic socket type ISO 7241-1 DN 12,5

Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading

Hydraulic drawbar support

Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)

PTO shaft

Exterior ladder with anti-skid steps facilitating access to loading box

Spreading adapter protected with automatic clutch

Floor convey driven by 2 hydraulic gearboxes, 4000 Nm each

OPTIONAL EQUIPMENT

Hydraulic quick-coupler with hose pressure neutralizer built in

New wheels 500/50-17

Wide angle PTO shaft

Warning triangle for slow-moving vehicles

Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector

Floor conveyor hydraulic feed with electric control in the tractor cabin

K80 towing eye

NRN „Aligator”

MANURE SPREADER NRN „ALIGATOR” | 10 T



10 TON

TECHNICAL DATA

| | |
|---|--|
| Administrative loading capacity | ~7 940 kg* (8 860 kg with K80 towing eye)* |
| Technical loading capacity | ~10 000 kg* |
| Gross vehicle weight rating according to PL regulations | 13 000 kg (14 000 with K80 towing eye) |
| Unladen mass | ~ 5 140 kg* |
| Number of axles | 1 |
| Spreading adapter type | A2VS - 2 vertical snail step drums |
| Length | 8 670 mm |
| Width | 2 900 mm |
| Height | 2 925 mm |
| Length of internal loading space (upper) | 5 350 mm |
| Loading box internal width | 1 480 / 2 115 mm |
| Loading box side walls height | 1 160 mm |
| Height of the platform above the ground | 1 120 mm |
| Loading Height | 2 285 mm |
| Floor/side walls thickness | 3/3 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

* - Unladen mass and loading capacity may vary depending on equipment
 ** - spreading width may differ from the specified width depending on the type of material used

DETAILED SPECIFICATION

| | |
|---|---|
| Loading capacity (loading 5 cm above the side walls height) | 11,3 m3 (bulk 14,8 m3) |
| Track of wheels | 2 350 mm |
| Suspension | parabolic leaf springs |
| Max. vertical drawbar eye load | 3 000 kg (4 000 kg with K80 towing eye) |
| Drawbar coupling height (bottom position) | ~ 515 mm |
| Maximum permissible axle load | 10 000 kg |
| Wheel size (tyre / rim) | 550/60-22,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 66kW / 90KM |
| Spreading width (depending on manure type) | ~8 - 16 m** |



HOT-DIP GALVANIZED CONSTRUCTION

STANDARD EQUIPMENT

900mm hot-dip galvanized side walls bent of one 3mm thick metal sheet (S355) strengthened with stiffening side profiles

A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector

Lower and upper frames including side walls are made as 1 construction element to improve the tightness

Rigid drawbar integrated with the frame

Hot-dip galvanized exchangeable floor

Hydraulic floor conveyor drive with stepless regulation and overload valve

Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)

Hot-dip galvanized 2-part spreading deflector(upper and lower)

Hot-dip galvanized front protective mesh(safety regulations PN-EN 690:2014-02), foldable for ease of transportation

Exchangeable 50mm towing eye

Hot-dip galvanized floor conveyor chain with 14x50 links

Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles

New wheels 500/50-17

Renowned ADR axle, 80mm square cross section, 300x90 brakes

Two wheel chocks in galvanized pockets

12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers

Double line pneumatic brake system with ALB

Hydraulic installations made of galvanized pipes and flexible hoses

Hydraulic socket type ISO 7241-1 DN 12,5

Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading

Hydraulic drawbar support

Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)

PTO shaft

Exterior ladder with anti-skid steps facilitating access to loading box

Spreading adapter protected with automatic clutch

Floor convey driven by 2 hydraulic gearboxes, 4000 Nm each

OPTIONAL EQUIPMENT

Hydraulic quick-coupler with hose pressure neutralizer built in

Wide angle PTO shaft

Warning triangle for slow-moving vehicles

Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector

Floor conveyor hydraulic feed with electric control in the tractor cabin

K80 towing eye

NRN „Aligator”

MANURE SPREADER NRN „ALIGATOR” TANDEM | 10 T



10 TON

TECHNICAL DATA

| | |
|---|--|
| Administrative loading capacity | ~9 000 kg (10 000 kg with K80 towing eye)* |
| Technical loading capacity | ~10 000 kg* |
| Gross vehicle weight rating according to PL regulations | 14 550 kg |
| Unladen mass | ~ 4 450 kg* |
| Number of axles | 2 - tandem |
| Spreading adapter type | A2VS - 2 vertical snail/step drums |
| Length | 8 670 mm |
| Width | 2 810 mm |
| Height | 2 845 mm |
| Length of internal loading space (upper) | 5 350 mm |
| Loading box internal width | 1 480 / 2 115 mm |
| Loading box side walls height | 1 160 mm |
| Height of the platform above the ground | 1 010 mm |
| Loading Height | 2 210 mm |
| Floor/side walls thickness | 3/3 mm |
| Floor conveyor drive type | Hydrauliczny |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Nie |

DETAILED SPECIFICATION

| | |
|---|--|
| Loading capacity (loading 5 cm above the side walls height) | 11,3 m ³ (usypowa 14,8 m ³) |
| Track of wheels | 2 300 mm |
| Suspension | Tandem - resory paraboliczne |
| Max. vertical drawbar eye load | 3 000 kg (4 000 kg z ciągnem K80) |
| Drawbar coupling height (bottom position) | ~ 440 mm |
| Maximum permissible axle load | 10 550 kg |
| Wheel size (tyre / rim) | 500/50 17 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 74kW / 100KM |
| Spreading width (depending on manure type) | ~8 - 16 m** |



**HOT-DIP GALVANIZED
CONSTRUCTION**

* - Unladen mass and loading capacity may vary depending on equipment
** - spreading width may differ from the specified width depending on the type of material used

STANDARD EQUIPMENT

900mm hot-dip galvanized side walls bent of one 3mm thick metal sheet (S355) strengthened with stiffening side profiles

A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector

Lower and upper frames including side walls are made as 1 construction element to improve the tightness

Rigid drawbar integrated with the frame

Hot-dip galvanized exchangeable floor

Hydraulic floor conveyor drive with stepless regulation and overload valve

Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)

Hot-dip galvanized 2-part spreading deflector(upper and lower)

Hot-dip galvanized front protective mesh(safety regulations PN-EN 690:2014-02), foldable for ease of transportation

Exchangeable 50mm towing eye

Hot-dip galvanized floor conveyor chain with 14x50 links

Replaceable hot-dip galvanized floor conveyor bars made of C65 steel profiles

New wheels 500/50-17

Renowned ADR axle, 80mm square cross section, 300x90 brakes

Two wheel chocks in galvanized pockets

12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers

Double line pneumatic brake system with ALB

Hydraulic installations made of galvanized pipes and flexible hoses

Hydraulic socket type ISO 7241-1 DN 12,5

Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading

Hydraulic drawbar support

Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)

PTO shaft

Exterior ladder with anti-skid steps facilitating access to loading box

Spreading adapter protected with automatic clutch

Floor convey driven by 2 hydraulic gearboxes, 4000 Nm each

OPTIONAL EQUIPMENT

Hydraulic quick-coupler with hose pressure neutralizer built in

Wide angle PTO shaft

Warning triangle for slow-moving vehicles

Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector

Floor conveyor hydraulic feed with electric control in the tractor cabin

K80 towing eye

N-264/1 EU

MANURE SPREADER N-264/1 EU | 14 T



14 TON

TECHNICAL DATA

| | |
|---|--|
| Type / Version according to EU homologation certificate | N-2 D20 71 |
| Administrative loading capacity | ~14 710 kg (15 710 kg with K80 towing eye)* |
| Technical loading capacity | ~14 710 kg (15 710 kg with K80 towing eye)* |
| Gross vehicle weight rating - PL regulations | 21 000 kg (22 000 kg with K80 towing eye) |
| Gross vehicle weight rating - Directive 2015/208 | 18 000 kg |
| Unladen mass | ~ 6 290 kg * |
| Number of axles | 2 - tandem |
| Spreading adapter type | AVH2 - 2 horizontal snail drums + 2 spreading plates |
| Length | 8 255 mm |
| Width | 2 495 mm |
| Height | 3 065 mm |
| Length of internal loading space (upper) | 5 400 mm |
| Loading box internal width | 2 150 / 2 240 mm |
| Loading box side walls height | 1 150 mm |
| Height of the platform above the ground | 1 630 mm |
| Loading Height | 2 730 mm |
| Floor/side walls thickness | 3/4 mm |
| Floor conveyor drive type | Hydraulic |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | No |

DETAILED SPECIFICATION

| | |
|---|--|
| Loading capacity (loading 5 cm above the side walls height) | 13,2 m ³ |
| Track of wheels | 1 900 mm |
| Suspension | Tandem - parabolic leaf springs |
| Max. Pionowe obciążenie oka dyszla | 3 000 kg (4 000 kg with K80 towing eye) |
| Drawbar coupling height (bottom position) | 585 mm |
| Drawbar coupling height (upper position) | 1 230 mm |
| Maximum permissible axle load | 1. - 9 000 kg, 2. - 9 000 kg |
| Wheel size (tyre / rim) | 550/60-22,5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 88kW / 120KM |
| Spreading width (depending on manure type) | ~18 - 24 m** |

* - Unladen mass and loading capacity may vary depending on equipment
 ** - spreading width may differ from the specified width depending on the type of material used



**EUROPEAN
HOMOLOGATION**



**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

1150mm hot-dip galvanized side walls bent of one 3mm thick metal sheet (S355) strengthened with stiffening side profiles
AVH2 hot-dip galvanized spreading adapter with 2 horizontal all snail drums, spreading plates, lime board and exchangeable knives and hydraulically lifted service cover for drums
Exchangeable hot-dip galvanized floor
Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)
Hydraulic floor conveyor drive with stepless regulation and overload valve
Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)
Hot-dip galvanized galvanized spreading adapter cover
Hot-dip galvanized front protective mesh (safety regulations)
Exchangeable 50mm towing eye
Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)
Hydraulic drawbar support
Hot-dip galvanized floor conveyor chain with 14x50 links
Replaceable hot-dip galvanized floor conveyor bars
Parking hand brake with crank
Removable exterior ladder with anti-skid steps facilitating access to loading box
Ductile iron socket chain wheels
European homologation approval
Electrical installation connector cable with 7 PIN 12V plug
12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers
Double line pneumatic brake system with ALB
Hydraulic installations made of galvanized pipes and flexible hoses
Hydraulic socket type ISO 7241-1 DN 12,5
New wheels 550/60-22,5
Renowned ADR axle, 100mm square cross section, 406x120 brakes
Two wheel chocks in galvanized pockets
PTO shaft
Parabolic leaf spring suspension
Spreading adapter protected with automatic clutch
Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading
Wooden floor conveyor slides underneath loading box
Regulated fire galvanized support for hoses and cables
Floor convey driven by 2 hydraulic gearboxes, 4000 Nm each
Side wall supports equipped with a reinforced edge seal preventing damages of zinc coating
Rear guillotine opening indicator

OPTIONAL EQUIPMENT

320mm hot-dip galvanized side walls extensions
Homologated, double circuit hydraulic brake installation with automatic braking force adjuster
New wheels 600/50-22.5
Steering rear axle (towed)
Hydraulic quick-coupler with hose pressure neutralizer built in
Wide angle PTO shaft
Warning triangle for slow-moving vehicles
Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector
Floor conveyor hydraulic feed with electric control in the tractor cabin
K80 towing eye
A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector



N-114 EU

MANURE SPREADER N-114 EU ZEUS | 14 T



TECHNICAL DATA

DETAILED SPECIFICATION

| | |
|---|---|
| Type / Variant / Version according to EU homologation certificate | N-1 910 71 |
| Administrative loading capacity | 6 360 kg (7 360 kg with K80 towing eye)* |
| Technical loading capacity | ~14 360 kg* |
| Gross vehicle weight rating - PL regulations | 20 000 kg (21 000 kg with K80 towing eye) |
| Gross vehicle weight rating - Directive 2015/208 | 10 000 kg |
| Unladen mass | ~ 6 640 kg * |
| Number of axles | 1 |
| Spreading adapter type | A2VS - 2 vertical snail/step drums |
| Length | 7 870 mm |
| Width | 2 910 mm |
| Height | 3 250 mm |
| Length of internal loading space (upper) | 4 640 mm |
| Loading box internal width | 1410 / 2 470 mm |
| Loading box side walls height | 1 480 mm |
| Height of the platform above the ground | 1 345 mm |
| Loading Height | 2 825 mm |
| Floor/side walls thickness | 3/4 mm |
| Floor conveyor drive type | Hydrauliczny |
| Spreading adapter type | Mechanical, PTO shaft driven |
| Opening side walls | Nie |

| | |
|---|--|
| Loading capacity (loading 5 cm above the side walls height) | 12,7 m ³ (bulk 15,5 m ³) |
| Track of wheels | 2 155 mm |
| Suspension | rigid |
| Max. Pionowe obciążenie oka dyszla | 3 000 kg (4 000 kg with K80 towing eye) |
| Drawbar coupling height (bottom position) | 540 mm |
| Drawbar coupling height (upper position) | 760 mm |
| Maximum permissible axle load | administracyjne 10 000 kg (techniczne 17 000 kg) |
| Wheel size (tyre / rim) | 580/70 R38 |
| Design speed (transport) | 30 km/h |
| Required tractor power | 88kW / 120KM |
| Spreading width (depending on manure type) | ~18 - 24 m** |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used



**HOMOLOGACJA
EUROPEJSKA**



**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

1480mm hot-dip galvanized side walls bent of one 4mm thick metal sheet (S355) strengthened with stiffening side profiles

A2V spreading adapter- 2 vertical snail / step drums with exchangeable knives, plates and lime board and two part spreading deflector

Hot-dip galvanized rotatable drawbar (upper or lower) with exchangeable 40mm or 50mm towing eye in compliance with 55 EKG ONZ (Reg. 55 UN ECE)

Hydraulic floor conveyor drive with stepless regulation and overload valve

Hydraulic guillotine (inside of the loading box, in front of the spreading adapter)

Drawbar amortisation and leveling with hydraulic accumulators(2pcs)

Hydraulic controls for spreading deflector

Hot-dip galvanized front protective mesh(safety regulations)

Exchangeable 50mm towing eye

Hot-dip galvanized lower and upper frame (anti-corrosion protection inside and outside of the profiles)

Hydraulic drawbar support

Hot-dip galvanized floor conveyor chain with 14x50 links

Replaceable hot-dip galvanized floor conveyor bars

Parking hand brake with crank

Removable exterior ladder with anti-skid steps facilitating access to loading box

Ductile iron socket chain wheels

European homologation approval

Electrical installation connector cable with 7 PIN 12V plug

12V light installation, homologated, rear bulb lamps. front LED markers, side reflective markers

Double line pneumatic brake system

Hydraulic installations made of galvanized pipes and flexible hoses

Hydraulic socket type ISO 7241-1 DN 12,5

Spreading adapter protected with automatic clutch

Floor conveyer driven by 2 hydraulic gearboxes, 4000 Nm each

Renowned ADR axle, 100mm square cross section, 406 x 140 brakes

Two wheel chocks in galvanized pockets

PTO shaft

Exchangeable hot-dip galvanized floor conveyor bars slides, preventing chains from spreading

Wooden floor conveyor slides underneath loading box

Regulated fire galvanized support for hoses and cables

Suspension rigid

OPTIONAL EQUIPMENT

Homologated, double circuit hydraulic brake installation with automatic braking force adjuster

Hydraulic quick-coupler with hose pressure neutralizer built in

Wide angle PTO shaft

Warning triangle for slow-moving vehicles

Digital control - cabin controls for hydraulic feed for floor conveyor, rear guillotine, volumetric back wall, hydraulic drawbar control, spreading deflector

Floor conveyor hydraulic feed with electric control in the tractor cabin

K80 towing eye

RWN-8000

SPREADER RWN-8000 „WAPNIAK” | 8 T



8 TON

TECHNICAL DATA

| | |
|--|--------------------|
| Load capacity | ~8 000 kg |
| Gross vehicle weight rating - PL regulations | 12 300 kg |
| Unladen mass (with covers and tarpaulin) | 4 300 kg * |
| Number of axles | 1 |
| Spreading adapter type | 2 spreading discs |
| Conveyor drive | wheel drive |
| Length | 6 740 mm |
| Width without guards / with guards | ~ 2 520 / 2 780 mm |
| Height | 2 660 mm |
| Length of the interior loading space top / bottom | 3 445 / 2 790 mm |
| The width of the interior loading box top / bottom | 2 000 / 800 mm |
| Height of loading box walls | 1 030 mm |
| Height of platform from base | 1 210 mm |
| Loading Height | 2 240 mm |
| Floor/side walls thickness | 5/3 mm |

DETAILED SPECIFICATION

| | |
|--|---|
| Cargo capacity | 5,5 m3 |
| Track of wheels | 1 900 mm |
| Suspension | parabolic springs |
| Max. vertical drawbar eye load | 3 000 kg |
| Drawbar coupling height | 925 mm |
| Max. tolerable axle load | 9 300 kg |
| Maximum permissible axle load | administracyjne 10 000 kg (techniczne 17 000 kg) |
| Wheel size (tyre / rim) | 600/50-22.5 |
| Design speed (transport) | 40 km/h |
| Required tractor power | 74 kW / 100 KM |
| Spreading width (depending on manure type) | ~10-14 m** |

* - Unladen mass and loading capacity may vary depending on equipment

** - spreading width may differ from the specified width depending on the type of material used



**HOMOLOGACJA
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**HOT-DIP GALVANIZED
CONSTRUCTION**

STANDARD EQUIPMENT

Agitators for mineral fertilisers located in the loading box and driven from the PTO shaft

Hydraulic distributor controlled electronically from the control panel

Hot-dip galvanised hydraulic gate valve with protection

Weighing system based on strain gauges integrated with a readable display

A set of cameras inside and outside the load box

Gate open indicator

Hot-dip galvanised load box welded from sheets with a thickness of 3 and 5mm

The floor of the load box is made of 5mm sheet metal

The lower frame is hot-dip galvanised – stringers made of rectangular profiles 160×80

Bolted hitch harness diam. 40

Speed-dependent mechanical floor conveyor driven by driving wheel Feed speed depends on travel speed.

Heavy-duty gear driven floor conveyor.

Transmission of drive through a set of PTO shafts with overload and one-way clutches

AktivGruda active material shredding system

The pressure of the drive wheel of the floor conveyor is hydraulically controlled

Possibility to drive the floor conveyor with the PTO shaft when parked

Automatic floor chain tensioning system

Hot-dip galvanised 2-disc adapter with tilt adjustment and adjustable paddles

Adapter discs mechanically driven by PTO shaft 540 rpm

Own hydraulic system with pump, filter and tank

Hot-dip galvanised hydraulic drawbar support

Conveyor chain – links 14×50

Conveyor slats made of C50 channel sections

Parking brake with parking and releasing valve and diaphragm-spring actuators

Star wheels made of spheroidal graphite iron

Design protecting the box and floor conveyor from foreign objects

Lighting installation connector cable with 7PIN 12V plug

12V lighting, homologated, LED

Pneumatic two-line braking system with ALB

Hydraulic installations made of galvanised steel tubes and flexible hoses

Hydraulic connectors to tractor, type ISO 7241-1 DN 12.5

Axle from renowned ADR company, full beam with 90 mm square cross-section, 400×80 brake

Two wheel chocks placed in galvanised pockets

Articulated shaft for coupling to tractor

Parabolic leaf spring suspension

Bracket for connectors, hot-dip galvanised

OPTIONAL EQUIPMENT

Rolled tarpaulin with a foldable hot-dip galvanised frame

LED work lights

Hydraulic quick coupler with pressure eliminator in the hose (support foot)

Wide-angle articulated PTO shaft

Hitch rod diam. 50

Warning triangle (sign distinguishing slow-moving vehicle)

Additional display for weighing system

Cover for spreading road grit and salt

10m wide fold-out dust covers

ADVANTAGES OF HOT DIP GALVANIZING TECHNOLOGY

Possibility of applying zinc coat in closed spaces (e.g. inside pipes, tanks), preventing subsurface corrosion, guarantee of very high aesthetic of steel constructions, accurate and uniform coating with zinc layer, which can reach all difficult-to-access spots.

HOT DIP GALVANIZING PROCESS AT CYNKOMET'S GALVANIZING PLANTS



10x BETTER RESISTANCE

20x BETTER PROTECTION

30x DURABILITY OF ANTI-CORROSION

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