

# TECHNICAL FOCUS ON FILLING ARMS

Technical guide for making the right purchase



# JOSKIN®

# FILLING ARMS

THE EQUIPMENT THAT SAVES YOU TIME!

1

Ø 200 mm front-Jumbo (left- and right-hand pumping)



2

Ø 200 mm side Jumbo (right-hand pumping only, left-hand as an option)



3

Ø 200 or 250 mm articulated arm (right-hand pumping only, left-hand as an option)



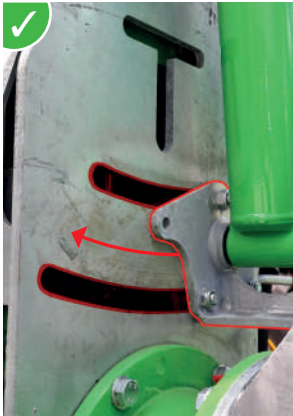
4

Ø 200 mm dorsal boom with front pivot point (left- and right-hand pumping over 340°)



## SPECIFICATIONS

Standard ✓ or optional + equipment on filling arms



1

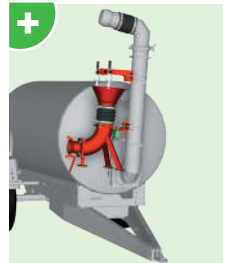
Tilting to left or right via simple manual operation of the lifting cylinder and safe locking by a clipped pivot.



1 2

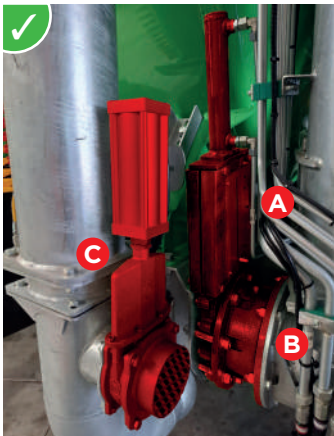
(A) Flexible cone (funnel) to receive a Jumbo arm (Ø 200 mm).

(B) Easy coupling and uncoupling from the slurry tanker, thanks to the claw and folding handle.



1 2

Hydraulic lifting of the cone (funnel) for transport.



1 (A) Double-acting industrial anti-blocking valve  
2  
3 (B) Ø 200 mm (8") industrial joint

3 (C) Ø 150 mm automatic air intake for draining pipes



2 3

Double pivot for improved stability when handling and driving.

Automated lowering and folding of the arm by hydraulic block (simple double-acting control).

LOWERING 1 2

(A) Operating the pump change-over.  
(B) Opening the safety hook and lowering the arm into the funnel.  
(C) Closing the air intake.  
(D) Limiting the pressure on the funnel (max. 50 bar).

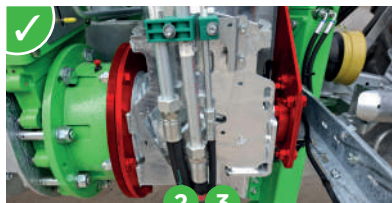
FOLDING 1 2

(A) Closing the valve.  
(B) Opening the air intake of the arm (draining).  
(C) Lifting and locking the arm with the safety hook.  
(D) Operating the pump change-over for spreading.

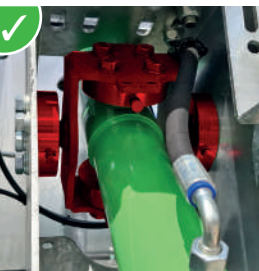


2 3

(A) Standardised pre-equipment  
(B) Connections with antivibration bellow

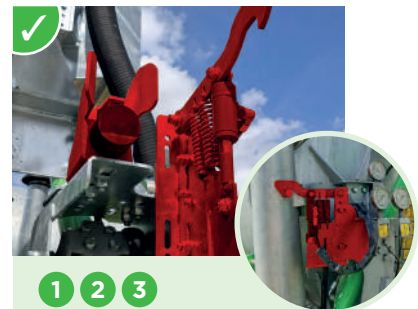


2 3



2 3

Double articulation of the linkage cylinders for maximum protection of mechanical and hydraulic systems.



1 2 3

Safety clamping for road travel + guide cone and silentblock to ensure stability and prevent vibration. Adjustable for a perfect fit.



1 2 3

**Turbo-fillers with hydraulic motors protected by a check valve**



1 2

**JOSKIN sequential hydraulic blocks protected by filters**



3

**Double hydraulic arm with offset** for folding above the tank, in compliance with road regulations. **Partially automated unfolding, adaptable to all pit configurations.**



3 4

**2nd articulation over 180°** for double arms (+ work light on 4).



1 2 3 4

**Possibility of a turbo-filler** that can be easily removed for maintenance.



3 4

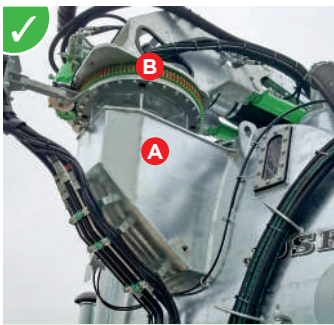
**Hydraulic block** with pressure and counter-pressure adjustment for arm and slewing ring articulation motors, **with automatic stop in road position.**



3

4

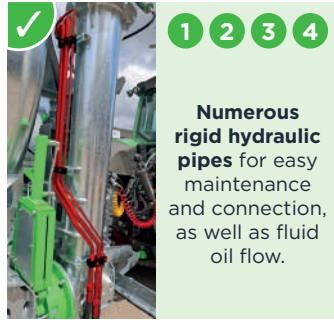
**Possibility of 1 m telescopic extension** (Ø 200 or 250 mm) with stainless steel inner side for pumping in deep pits or lagoons with sloping edges.



4

**(A) Support box** welded to the front of the tank on a solid curved base, guaranteeing good visibility.

**(B) Large-diameter (250 mm) JOSKIN slewing ring** with ball bearing and automatic gear lubrication. 340° orientation with end-of-stroke sensor.



1 2 3 4

**Numerous rigid hydraulic pipes** for easy maintenance and connection, as well as fluid oil flow.



1 2 3 4

**Pressure gauges** for the various hydraulic motors on all machines.



4

**2 LED work lights:** one on the 1st arm element and one at the end of the arm to illuminate the pit.



4

**Electrohydraulic installation** protected near the slewing ring and arm articulation to limit hydraulic pressure losses.



4

**Automated, safe folding of the arm onto the tank,** eliminating the need for risky manoeuvres and ensuring that the arm is perfectly stored away for driving on the road in compliance with regulations.



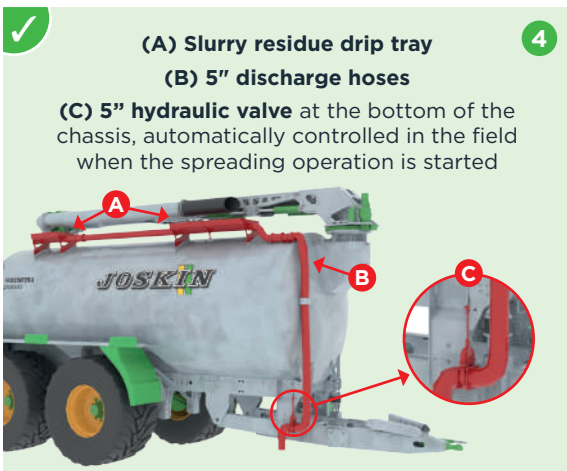
4

**2 hydraulic cylinders for each joint** to ensure stability.



4

**In-cab joystick** (speed of boom movements proportional to the inclination of the **optional Isobus joystick**).

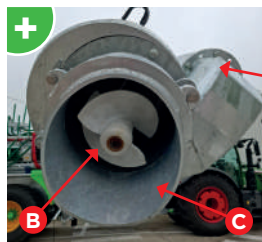


**(A) Slurry residue drip tray**

**(B) 5" discharge hoses**

**(C) 5" hydraulic valve** at the bottom of the chassis, automatically controlled in the field when the spreading operation is started

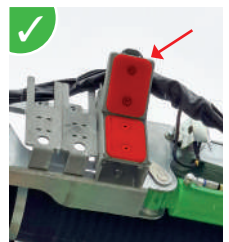
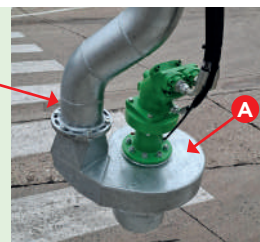
4



**(A) Turbo-filler:** automatic stop when the tank is full  
**(B) Priming propeller** = turbine inlet accelerator (flow rate: min. 8,000 l/min) with an oil flow rate of 70 l at 200 bar without using the tanker pump.

**(C) Turbine inlet: Ø 250 mm**  
**(D) Turbine outlet: Ø 150 mm**

4



1 2 3 4

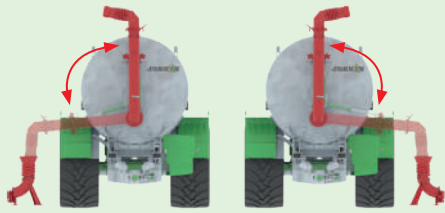
**Nylon plates** to protect all contact elements when the arms are folded.

# DIFFERENT FILLING ARM CONFIGURATIONS

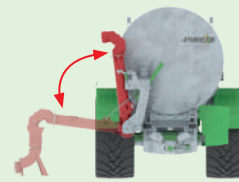
**Transport and spread slurry effortlessly and safely for FAST, EFFICIENT WORK!**

Adapt your pumping system to your pits or those of your customers. All the possibilities of sequential block automation (without risk of collision) are standard on all JOSKIN arms.

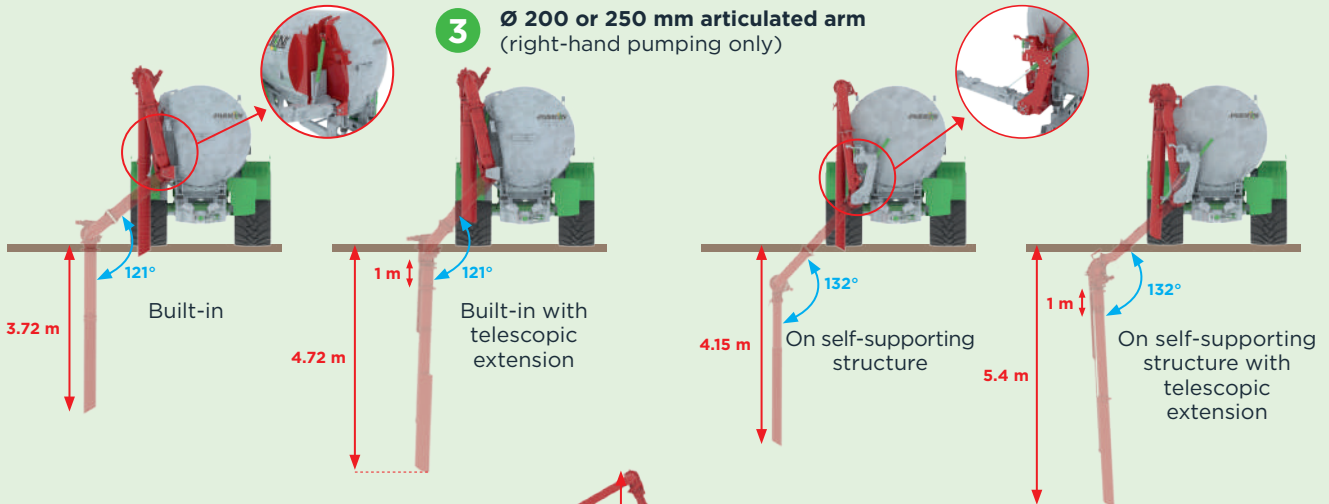
**1** Ø 200 mm front-Jumbo (left- and right-hand pumping)



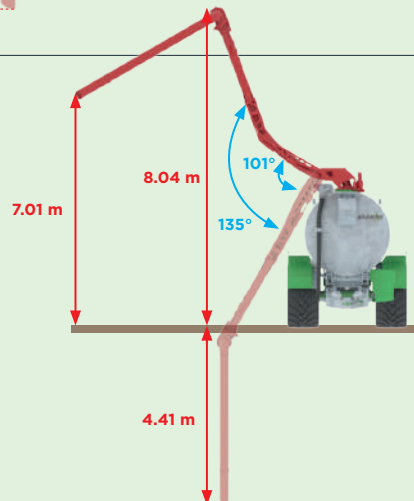
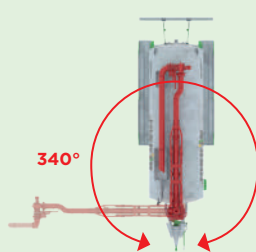
**2** Ø 200 mm side Jumbo (right-hand pumping only)



**3** Ø 200 or 250 mm articulated arm (right-hand pumping only)



**4** Ø 200 mm dorsal boom (left- or right-hand pumping)



All filling arms can be fitted with a turbo.

# JOSKIN



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