



Eccentric screw pumps for drums and containers



JP-700 SR (speed reducer), particularly for intermittent operation,

for gentle and almost pulsation free transport of

thin to high viscous, thixotropic, gaseous, solids and fibres containing, aggressive and neutral media.

Standard-version suitable for:

Chemical products: dyes, varnishes, resins, latex, silicone masses, polymers

Mineral oil products: oils, greases, cutting oils, coolants

Pump tubes will be driven by electric universalor air motors

All pump parts are in stainless steel 316 Ti; stator materials are adapted to the pumped medium and available in NBR, NBR-food grade, Viton, Hypalon, EPDM or PTFE.

Delivery rate is selectively 12, 25 or 50 ltr/min (at JP-700 DR also dosing pumps are available!).

Discharge pressure is 6 bar at the single-stage pump and 12 bar at the twin-stage pump.

Viscosity for the SR-version up to 20.000 mPas.

Max. temperature of the liquid up to 150 °C.

Pump tube lengths are 700, 1.000 and 1.200 mm. Special lengths up to 2.000 mm.

Diameter of pump tube 54 mm, therefore suitable for all 200 liter drums with 2" bung hole.

Easy disassembling and therefore easy cleaning.

Shaft seal by single-acting mechanical seal or stuffing box.

Weight 12 kg.

Special version for food, cosmetic and pharmaceutical products:

Polished surfaces, alternatively open or totally enclosed joint pins, no dead rooms inside pump, easy disassembling and therefore easy cleaning, milk thread connection DN 11851, CIP connections as an option, stators and seals conform to FDA food grade quality, also PTFE stators availa-

Pump tubes diameter Ø 54 mm, discharge connection G 11/2" Hose connection 1", 11/4" oder 11/2"

Type	Pump tube length*	Flow- rate	Disch. pres.
JP-700.12.1	1.000 mm	12 l/min	6 bar
JP-700.12.2	1.100 mm	12 l/min	12 bar
JP-700.25.1	1.000 mm	25 I/min	6 bar
JP-700.25.2	1.100 mm	25 I/min	12 bar
JP-700.50.1	1.100 mm	50 l/min	6 bar

SR-Version (with planetary gear = speed reducer) approx 700 rpm.

*suitable for 200 I drum (other lengths see above)

JP-180 (230/115 V, 50-60 Hz, IP 24, 600 W) JP-280 (230/115 V, 50-60 Hz, IP 24, 825 W)

AIR motors:

JP-AIR 2 (700 W at 6 bar operating pressure) JP-AIR 3 (400 W at 6 bar operating pressure)



WARNING:

The pumps have no ATEX approval.

They can not be used for pumping flammable media or for use in hazardous areas. For the pump tube with PTFE stator ATEX certificate is applied since autumn 2009.





JP-AIR 2

700 W at max. 6 bar operating pressure

Compressed air motor with starting button on the handle.

The motor starts running and the pump is transferring liquid when the button is pressed.



JP-AIR 3

400 W at max. 6 bar operating pressure

Compressed air motor. stainless steel housing, with plug valve at air intake for compressed air control.

This regulates the motor speed and varies the

pumping capacity.



JP-180

600 W Universal motor 230/115 V, 50-60 Hz

Double isolated, category II, Splash-proofing according to IP 24

On/off switch

Overload protection switch



JP-280

825 W Universal motor 230/115 V, 50-60 Hz

Double isolated, category II, Splash-proofing according to IP 24

On/off switch

Overload protection switch

Eccentric screw pumps for drums and containers



Driven by pneumatic or threephase motor with flexible coupling, pumpshaft with ballbearing.

JESSBERGER pumps and systems

JP-700 DR

are versatile, robust and extremly powerful pumps. They are suitable for the transport of fluid to high viscous substances such as muds, pastes, soaps, shampoos, honey, sirup, marmelade, ketchup, etc. **up to 100.000 mPas – particularly for stationary use or continuous operation.**

All parts of the pump that will get in contact with medium are made of stainless steel SS 316 Ti.

Stators are adapted to the medium and available in NBR (Buna), NBR light (Food grade), VITON (FKM), Hypalon (CSM), EPDM or PTFE.

Shaft seal by mechanical seal or gland.

The weight of the pumps is depending on the pump tube length and the drive 25–35 kg.

The pump can be delivered also in a **food grade version** (please see at JP-700 SR version) or as a **dosing drum pump** (smaller flow rate, smaller pump tube diameter).

Pump tubes, Ø 54 mm, discharge connection G 1½" Hose connection 1", 1¼" oder 1½"

Туре	Pump tube in mm	Flow rate	pressure
JP-700.12.1 DR	700/1.000/1.200	12 l/min	6 bar
JP-700.12.2 DR	800/1.100/1.300	12 I/min	12 bar
JP-700.25.1 DR	700/1.000/1.200	25 l/min	6 bar
JP-700.25.2 DR	800/1.100/1.300	25 l/min	12 bar
JP-700.50.1 DR	800/1.100/1.300	50 l/min	6 bar

JP-700 DR-Version

Driven by three-phase motors, gear motors or air motors.

Comprehensive accessories like pump hanger as an option.

with extended motor shaft.

Driven by pneumatic or three-

directly coupled

phase motor.

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Motors



Three-phase motor

230/400 V, 50 Hz 0,37-2,2 kW

other motor sizes and special voltages on request



Three-phase gear motor

230/400 V, 50 Hz 0,37-2,2 kW

reduced speed at high viscosities or for abrasive media, optimal speed for requested flow



Pneumatic motor

0,5-1,5 kW, 900 rpm at 6 bar

JP-AIR 4 (0,5 KW) JP-AIR 6 (1,0 kW) JP-AIR 8 (1,5 KW)

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Container pumps



JP-700.80.1, 80.2, 200.1, 200.2, 300.1 and 300.2

Gentle, almost pulsation free transport of fluid to high viscous, thixotropic, gaseous, solids and fibres containing, aggressive and neutral media.

Standard-version for:

Chemicals: dyes, varnishes, resins, latex, silicones, polymers

Mineral oil products: oils, greases, cutting oils, coolants

Pump tube, pump parts and rotor made of SS 316 Ti Pump and drive directly coupled

Totally enclosed pin joints or without any pin joints Easy disassembling

Flow rates 80, 200 or 300 l/min.

Pressure stages 6 and 12 bar

Tube lenghts 1.000, 1.200, 1.500 mm (special lengths available) Max. Ø 105 mm (JP-700.80, 200) and max. 130 mm (JP-700.300) Different sizes of delivery connections

Hose connection DN 40, DN 50-65, DN 65-80

Material of shaft seal:

Mechanical seal made of Chrome/Carbon/Viton or SiC/SiC. O-rings made of Viton or FEP. Alternatively gland made of PTFE.

Driven by three-phase motors, gear motors or air motors

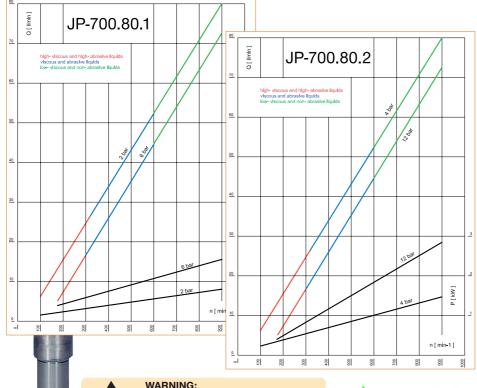
Stators:

NBR, NBR food-grade, Viton (FKM), Hypalon, EPDM or PTFE (Teflon). Pump lantern made of aluminium.

Differences at food grade version:

For examples of media see at dosing pumps

Polished surfaces, easy to disassemble and therefore to clean, pressure socket milk thread connection DIN 11851, stators and seals in food grade quality FDA, also PTFE stators available.



Selection of stators (valid for all pumps)

NBR black, (Perbunan), max. 100 °C, suitable for liquids containing oils and fats, alcohol and aqueous solutions.

Not resistant to acids, caustic solutions and solvents.

NBR white (Food grade), max. 100 °C, suitable for liquids containing oils and fats, alcohol and food.

Not resistant to acids, caustic solutions and solvents.

CSM (Hypalon), max. 110 °C, suitable for liquids containing acid- and caustic solutions.

Not resistant to oils, fats and solvents.

Viton (FKM), max. 150 °C, high chemical resistance.

PTFE (Teflon), max. 150 °C, high chemical resistance, for food, pharmaceutical and cosmetic products.

EPDM max. 110 °C, high resistance to caustic solutions (diluted or undiluted), acids (diluted), ketones, alcohols. Food grade conform (according to BGVV recommendations and in its composition to positiv list of FDA).

Not resistant to oils and fats, at transport of milk (3,5% fat) a sufficient resistance is



Information needed to select the right high viscosity pump

Spezification of the liquid

Viscosity and operating temperature of the liquid

Density

Required delivery rate

Delivery head (incl. pipeline losses)

Content as well as type and size of solids

Operating hours per day

Will the pump be used mobile or stationary, vertical or horizontal?



The pumps have no ATEX approval.

They can not be used for flam mable media or for use in hazardous areas.

Horizontal eccentric screw pumps

JESSBERGER pumps and systems

JP-700 H (space saving design)

These lightly eccentric screw pumps enable a gentle, almost pulsation free transport of thin to high viscous, thixotropic, gaseous, solids and fibres containing, aggressive and neutral media.

Stainless steel execution SS 316 Ti

Pump and drive directly coupled

Pressure stages 6 and 12 bar

Flow rates up to 3.000 l/h

Connections male thread G 11/2" on suction and female thread G 11/4" on discharge side

Totally enclosed pin joints, Rotor SS 316 Ti

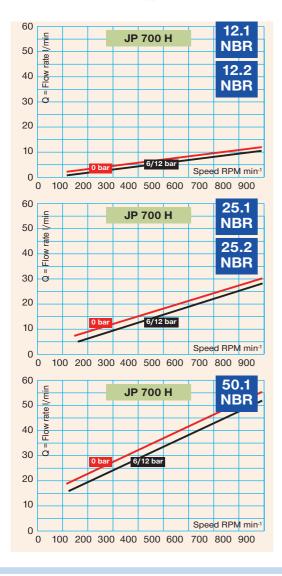
Stator material adapted to the pumped medium (NBR, NBR food grade, Viton, Hypalon, EPDM and PTFE are available)

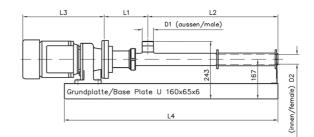
Shaft seal by single-acting mechanical seal or stuffing box

Base plate as an option (in steel or stainless steel)

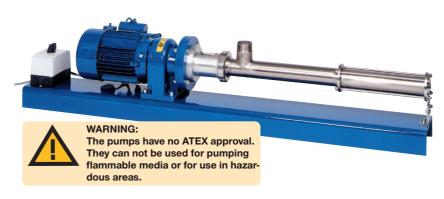
Driven by three-phase motor, gear motor or variable gear motor, IP 55

Also air motors can be supplied





Туре	Delivery	Pressure	Dimensions in mm					
	rate		L1	L2	L3	L4	D1	D2
JP-700 H 12.1	12 l/min	6 bar	184	448		800		
JP-700 H 12.2	12 l/min	12 bar		440				
JP-700 H 25.1	25 I/min	6 bar			343		G 1½"	G 11/4"
JP-700 H 25.2	25 I/min	12 bar		548		900		
JP-700 H 50.1	50 I/min	6 bar		340		900		



Food-grade execution:

For pulsation free and gentle transport of food, cosmetic and pharmaceutical products

For examples of media see at dosing pumps

Polished surfaces

Easy to dismantle

No dead spaces inside pump, therefore easy to clean

Milk thread connections DIN 11851

CIP-connections (as an option)

Alternatively totally enclosed or open pin joints

Stator and material of seals in food grade quality FDA, also PTFE stators are available



Dosing pumps for high viscous media

Type JP-7032 up to JP-7115.2

Almost pulsation free transport and small quantity dosing of thin to high viscous, thixotropic, gaseous, solids and fibres containing, aggressive and neutral media in nearly all industries.

High dosing precision

Flow rate adjustable by the speed of the motor

Stainless steel execution SS 316 Ti

Pump and motor directly coupled

Space-saving design

Flow rates from 0,6 up to 600 l/h

Pressure stages 6 und 12 bar

Thread connections on suction side G 3/4" and G 1/2" on discharge side G 3/4"

Totally enclosed pin joints

Rotor SS 316 Ti

Stator material adapted to the pumped medium (NBR, NBR-light, Viton, Hypalon and EPDM; PTFE is only available at types JP-7115.1 and JP-7115.2)

Shaft seal by single-acting mechanical seal or stuffing box

Drives:

Type series JP-7032 to 7115.2 is supplied with two different drives:

Gear motor, suitable for use with frequency inverter

between 12 and 100 Hz, 230/400 V, 50 Hz, IP 55, B3/B5, flange 120 mm, Iso class F, thermo sensors 3 x 155 $^{\circ}\text{C}$

Fix speed at 50 Hz optionally 107, 120, 134, 150, 165, 181, 197, 214, 233, 251, 392, 426, 462, 498, 538, 578 or 624 rpm, can be operated by frequency inverter.

Power 0,25 kW, 0,37 kW and 0,55 kW

Frequency inverter for installation in switchboard incl. line filter and operating terminal, single phase AC connection 1 x 230 V, 50/60 Hz

Frequency inverter on gear motor, speed control by potentiometer $3 \times 400 \text{ V}$, 50/60 Hz

Gear motor, adjustable via hand

0,25 kW, 0,37 kW and 0,55 kW Stepless variable from 0 to 1200 rpm

Chemical products:

Colours, synthetic resins, coatings, latex, polymers and silicons

Mineral oil products:

Oils, fats, cutting oils, coolants

Cosmetic and pharmaceutical products:

Cleaning agent, liquid soaps, glycerin



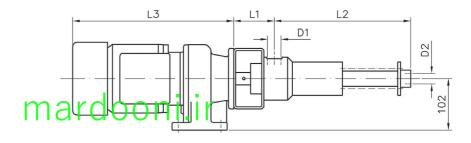
Tomato puree, ketchup, marmelade, honey, fruit juices and concentrates, wine grapes, mashes, fruit pulps, milk products, chocolate masses, dough, pectin

Туре	Delivery rate I/h	Press. bar	Power kW	Speed min -1	Drive	Dim L1	ensio	ns in L3	mm D1	D2
JP-7032	0,6-3	12		150-1000	SK 01 81	272 3	272	322	G 3/4"	
JP-7052	1,2-12		0,25	100-950						G ½"
JP-7082	6-54		0,25	100-975						
JP-7112	15-150			100-925						
JP-7115.1	50-600	6	0,37	250-950					G	
JP-7115.2		12	0,55	150-900			326	340		3/4"



WARNING:

The pumps have no ATEX approval. They can not be used for pumping flammable media or for use in hazardous areas.



Further program of eccentric screw pumps

ESSBERGERpumps and systems

Industrial pumps in horizontal mounting form

In addition to the shown standard pumps we can quote further sizes:

Flow rate: up to 200 m³/h Pressure stages: 6, 12, 18 and 24 bar

Special pump executions

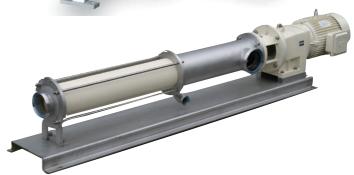
Based on the usual types we can quote many special pump versions. Especially for industry that converts fruits or the viniculture we can deliver pumps with hopper housing and feed screw.

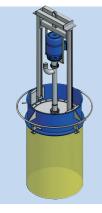


Block pump in horizontal mounting form

A low priced alternative are pumps in block construction. These pumps are directly flanged to the drive. Due to economisation of bearing pedestal, elastic coupling and if necessary also base plate briefer mounting forms and cheaper versions can be realised.

Flow rate: up to 200 m³/h Pressure stages: 6 and 12 bar





Barrel discharge unit

For a clean and fast emptying of barrels with high viscous up to pasty liquids that can not flow by itself into the pump.

At this barrel discharge unit a vertical eccentric screw pump with flanged follower plate will be dropped down into the barrel. This procedure can be realized by two double acting pneumatic cylinders. During this pump process the pump will dive further on into the drum.

The elastic lip seal of the follower plate strips the inner wall of the drum and enables an optimal emptying. The residue of liquid inside the drum is less then 1% of barrel capacity.

Spare parts

We are pleased to support you by your purchase of spare and wear parts for eccentric screw pumps. At this procurement transaction a short delivery time is important as well as quality and price. Due to our good contacts in pump business we can deliver original spare parts from a lot of reputable manufacturers. If you prefer we can deliver also alternatives that are nearly equivalent in quality – but they are explicitly no original parts.

Our product range of spare parts enfoldes:

Rotors

Stainless steel rotors, e.g. SS 316 Ti, SS 304, eventually with hard chrome plating or ductile coating if necessary. Also hardened tool steel or lower alloy steels.

Stators

in all popular elastomers, e.g. NBR (Nitrile), BR (Buna CB), NR (Natural Rubber), CSM (Hypalon), EPDM, FKM (Viton). Also solid stators are available, e.g. PTFE (Teflon) and grey cast iron.

Seals

like mechanical seals, glands or o-rings.

Pump parts

Drive shafts (with or without hard chrome plating) and coupling rods, as well as other turning work pieces for pumps in various materials.

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Our program:

Electric and pneumatic drum and container pumps

JESSBERGER pump technology with internal and external cooled motors in different flow capacity ranges.

Seal-less pump tubes in Polypropylene, PVDF, ALU and stainless steel. Tube lengths 700, 1.000, 1.200, 1.500 and 1.800 mm. Also in special lengths up to 3.000 mm. Please ask us.



High viscosity pumps JP-700 for drums and containers

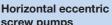
are suitable for the use of a big number of liquids. Particularly suitable for highly viscous, neutral, aggressive liquids also with or without solids up to 100.000 mPas.

All pump parts are in stainless-steel, stators are available in NBR. NBR light. Viton, Hypalon, EPDM or PTFE.



Dosing pumps for viscous

liquids for fluid, viscose, aggressive, neutral media with or without solids or fibres particles.



low or high viscosity, whether neutral or aggressive, with or without solids or fibres particles.



Hand-barrel pumps

are lightweight, powerful pumps for almost any fluid liquids.



of PP, 340-900 mm JP-02 for acids, alkaline solutions and water based chemicals.

JP-03 for Oil, Diesel, Alcohol (max. 50%), Anti and lyes. freeze liquid, Soap solutions, Shampoo, Water,

suction tube of PP, 480-950 mm. for fluid liquids.

Suitable particularly for acids solvents.



Pump tube INOX 700 or 1.000 mm, for fluid media.

Suitable particularly for flammable liquids like

Electronic flowmeter No.9020

Housing made of PP. Volume preset, signal-check for further data processing as an option. Other materials: PVDF and SS.



Please contact:

Air-operated diaphragm pumps JP-800

pumps and systems

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JESSBERGER diaphragm pumps are suitable for nearly all areas of use. They are capable of pumping aggressive and flammable substances, high viscous liquids also with solids or fibre particles and media containing gas.



Seal-less magnetic driven pumps

Available in various sizes, state-of-the-art construction, seal-less and environmentally friendly, suitable for a variety of uses, low noise level, long life, easy to maintain.



Vertical centrifugal pumps SERIE JP-820

executed in Polypropylene and PVDF

Horizontal centrifugal pumps SERIE JP-840

executed in Polypropylene and PVDF



Mixers for drums and containers

JESSBERGER offers solutions for almost every mixing application for drums and containers.



Electric diesel- and fuel oil pumps

are intended mainly for the refueling of agricultural machines. tractors, machines for construction work, trucks, motorboats and all vehicles with diesel or light fuel (hazard class A III) engines.





The following hoses can be supplied:

Universal- and special hoses for chemical substances, PVC-hoses, PTFE-hoses, hoses for mineral oil and solvents. tissue-reinforced or conductive.

Please ask for details.



Please ask for detailed information

about the individual product groups of the JESSBERGER delivery program. Please make a cross next to the requested product and e-mail or fax this page to us with your address.

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