

# TRIPOD AGITATORS

Geppert Rührtechnik offers a multitude of popular standard solutions for tripod agitators that meet all of your expectations. For us, an easy handling as well as the compliance to safety regulations are a matter of course. We will be happy to discuss the details with you!



**G E P P E R T**  
INNOVATIVE MIXING SOLUTIONS.

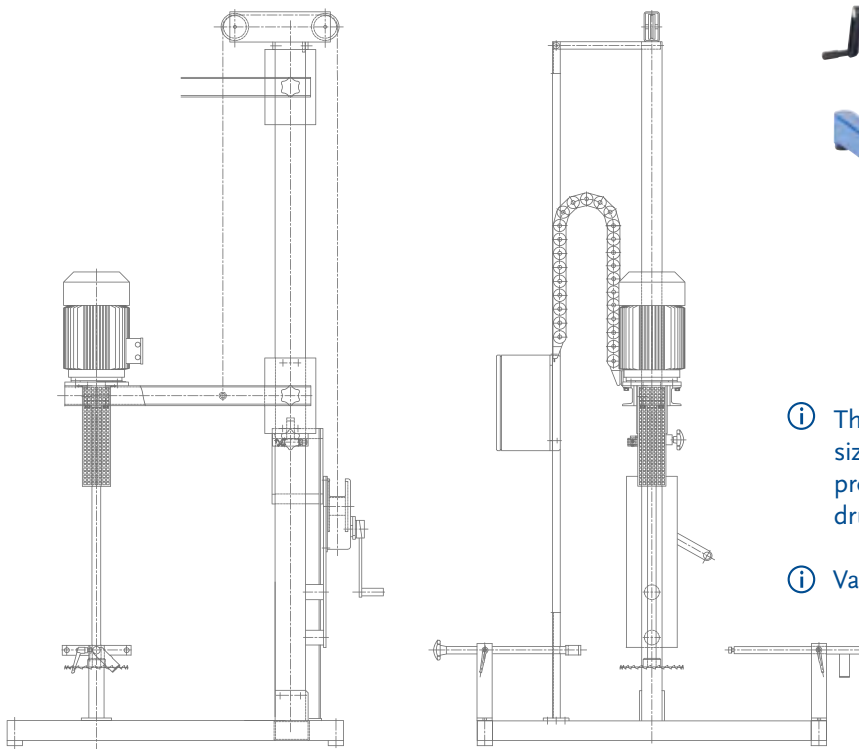
# SRW

## Floor stand mixer

Rigid stand with H-foot for tanks that range in volume from 100 l. Under these conditions, the stand can be equipped with all fast running or gear-reduced mixers and their matching mixing elements. Mixer powers from 0.37 kW to 7.5 kW and support loads up to 100 kg - by means of a reinforced stand loads up to 300 kg - can be realized.

The agitator is positioned on a telescope sleeve that is moved via the spring-suspended lid connected to the stand. The lift is done by a geared hand-wheel or electric with a lift drive and chain drive. The mixer is positioned on a cantilever beam which is fixed to a support slide that is moved on the stand column. The electric or pneumatic supply is guided through a laterally mounted energy chain.

Floor stand SRW with agitator GRS-D 300/1.5 with ex-protection, spring suspended lid and vessel clamp as well as pitched blade turbine



- ⓘ The stand SRW is available in two standard sizes that are particularly designed for the processing of exchangeable vessels such as drums and IBCs.
- ⓘ Various tank sizes upon request.

Side and front view of a SRW

### Technical data:

| Produkttype [SRW] | H-foot inner dimensions [mm] | H-foot outer dimensions | Outreach [mm] | Lift height [mm] | Lift mechanism |
|-------------------|------------------------------|-------------------------|---------------|------------------|----------------|
| SRW-S - Gr.1      | 950 x 804                    | 1,070 x 1,078           | 450           | 1,225            | Hand wheel     |
| SRW-S - Gr.2      | 1,250 x 1,046                | 1,370 x 1,320           | 700           | 1,225            | Hand wheel     |
| SRW-E - Gr.1      | 950 x 804                    | 1,070 x 1,078           | 450           | 1,225            | Electric       |
| SRW-E - Gr.2      | 1,250 x 1,046                | 1,370 x 1,320           | 700           | 1,225            | Electric       |

Other solutions for this series upon request.

## FRW

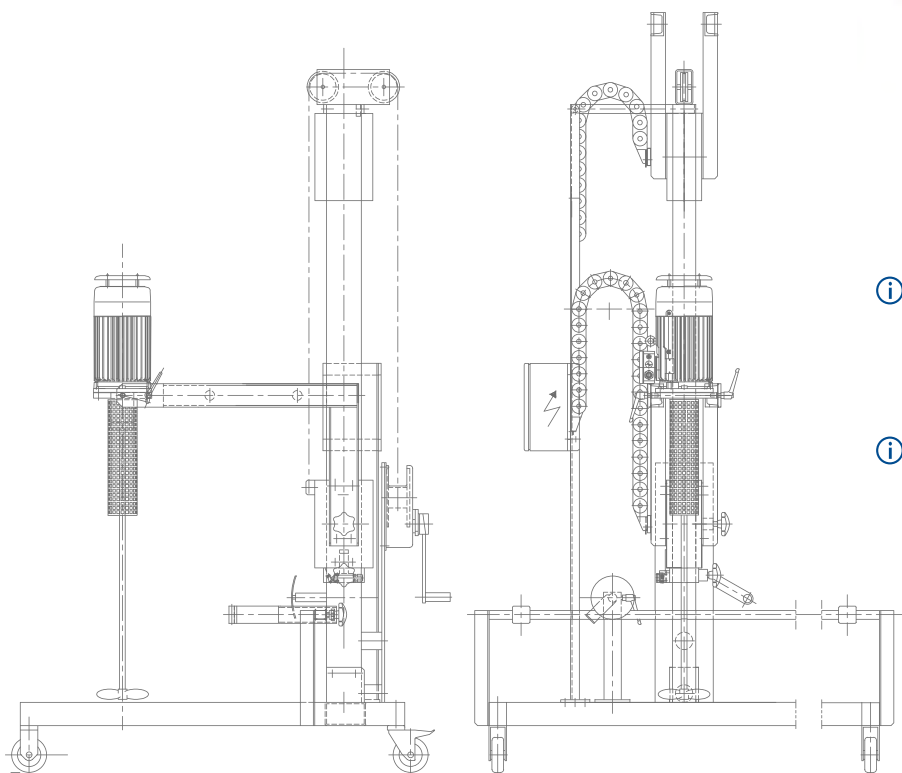
### Mobile stand mixer

Mobile stand with H-foot for tank volumes from 100 l. The mobility of the tripod is ensured by using castors and fixed castors. The tripod can be moved due to The lift is done by a geared hand-wheel or electric with a lift drive and chain drive. Mixer powers from 0.37 kW to 7.5 kW and support loads up to 100 kg can be realized (with ex-protection only realizable to a limited extend). Under these conditions, the stand can be equipped with all fast running or gear-reduced mixers and their matching agitator elements.

The mixer is positioned on a cantilever beam which is fixed to a support slide that is moved on the stand column. The FRW is equipped with fixed and steerable wheels for mobility. The electric or pneumatic supply is guided through a laterally mounted energy chain.



Mobile stand FRW with agitator SPR 6/0.75 and frequency converter, shaft protection sleeve and vessel clamp



Side and front view of a FRW

- ① The stand FRW is available in two standard sizes that are particularly designed for the processing of exchangeable vessels such as drums and IBCs.
- ① Various tank sizes upon request.

#### Technical data:

| Produkttype [FRW] | H-foot inner dimensions [mm] | H-foot outer dimensions | Outreach [mm] | Lift height [mm] | Lift mechanism |
|-------------------|------------------------------|-------------------------|---------------|------------------|----------------|
| FRW-S - Gr.1      | 950 x 804                    | 1,070 x 1,078           | 450           | 1,225            | Hand wheel     |
| FRW-S - Gr.2      | 1,250 x 1,046                | 1,370 x 1,320           | 700           | 1,225            | Hand wheel     |
| FRW-E - Gr.1      | 950 x 804                    | 1,070 x 1,078           | 450           | 1,225            | Electric       |
| FRW-E - Gr.2      | 1,250 x 1,046                | 1,370 x 1,320           | 700           | 1,225            | Electric       |

Other solutions for this series upon request.

## WRW

### Wall mounted stand mixer

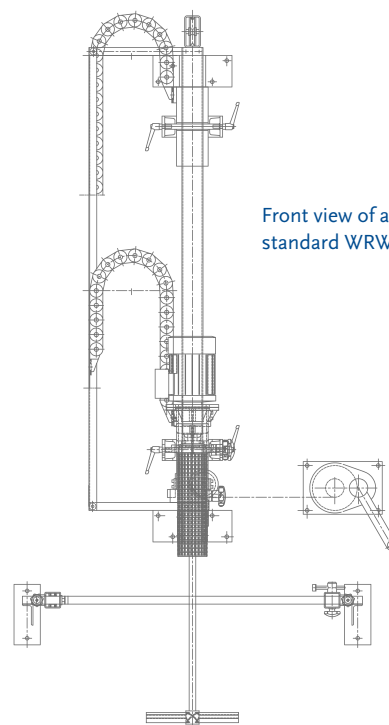
Rigid stand for wall-mounting for tank volumes from 100 l. Mixer powers from 0.37 kW to 7.5 kW and support loads up to 100 kg can be realized. Under these conditions, the stand can be equipped with all fast running or gear-reduced mixers and their matching agitator elements.

The lift is done by a geared hand-wheel or electric with a lift drive and chain drive. The mixer is positioned on a cantilever beam which is fixed to a support slide that is moved on the stand column. The electric or pneumatic supply is guided through a laterally mounted energy chain.

The stand WRW is available in two standard sizes, thus enabling the processing of various tank sizes. The standard sizes are particularly designed for the processing of exchangeable vessels such as drums and IBCs.



Wall mounted stand mixer WRW with rope winch



Front view of a standard WRW

#### Technical data:

| Produkttyp [WRW] | Outreach [mm] | Lift height [mm] | Lift mechanism [mm] |
|------------------|---------------|------------------|---------------------|
| WRW-S - Gr.1     | 450           | 1,225            | Hand wheel          |
| WRW-S - Gr.2     | 700           | 1,225            | Hand wheel          |
| WRW-E - Gr.1     | 450           | 1,225            | Electric            |
| WRW-E - Gr.2     | 700           | 1,225            | Electric            |

Other solutions for this series upon request.

## WRW/SRW

### Double column stand mixer/floor stand mixer

Rigid stand for wall-mounting or floor stand for mixers from 100 kg. The stand consists of 2 u-shaped columns with a ball-borne support slide with a cantilever beam for the mixer. The double-column stand allows the processing of tank volumes up to 4 m<sup>3</sup>, depending on the tank dimensions.

Mixer powers up to 75.0 kW and support loads up to 1,000 kg can be realized. Under these conditions, the stand can be equipped with all fast running or gear-reduced mixers and their matching agitator elements.

The lift is done electrically by a lift drive and chain drive. The electric supply is guided through a laterally mounted energy chain.

① Customized solutions for instance a stand mixer with H foot or stand equipped with coaxial agitator type KRK are feasible.

① Further solutions upon request.



Double column floor stand mixer with a GRK 248/4.0 equipped with three folding propellers (diameter 650 mm) and a spring suspended lid.

## SV 30

### Small stand mixer

The SV 30 is a small stand mixer with manual stroke adjustment and spring suspended lid for small batches that range in volume from 20 l up to 100 l and agitator drives of up to 1.5 kW. It is supplied with helical gear agitators of up to 0.75 kW or fast running agitators of up to 1.5 kW and the suitable mixing elements.

Thanks to the H stand as well as two hook blocks, the SV 30 can be moved. The weight is balanced by means of a counterweight positioned in the stand column itself. The pneumatic supply is guided through a laterally mounted energy chain.

**i** Explosion-proof design ATEX 2014/34/EU feasible.

#### Technical data:

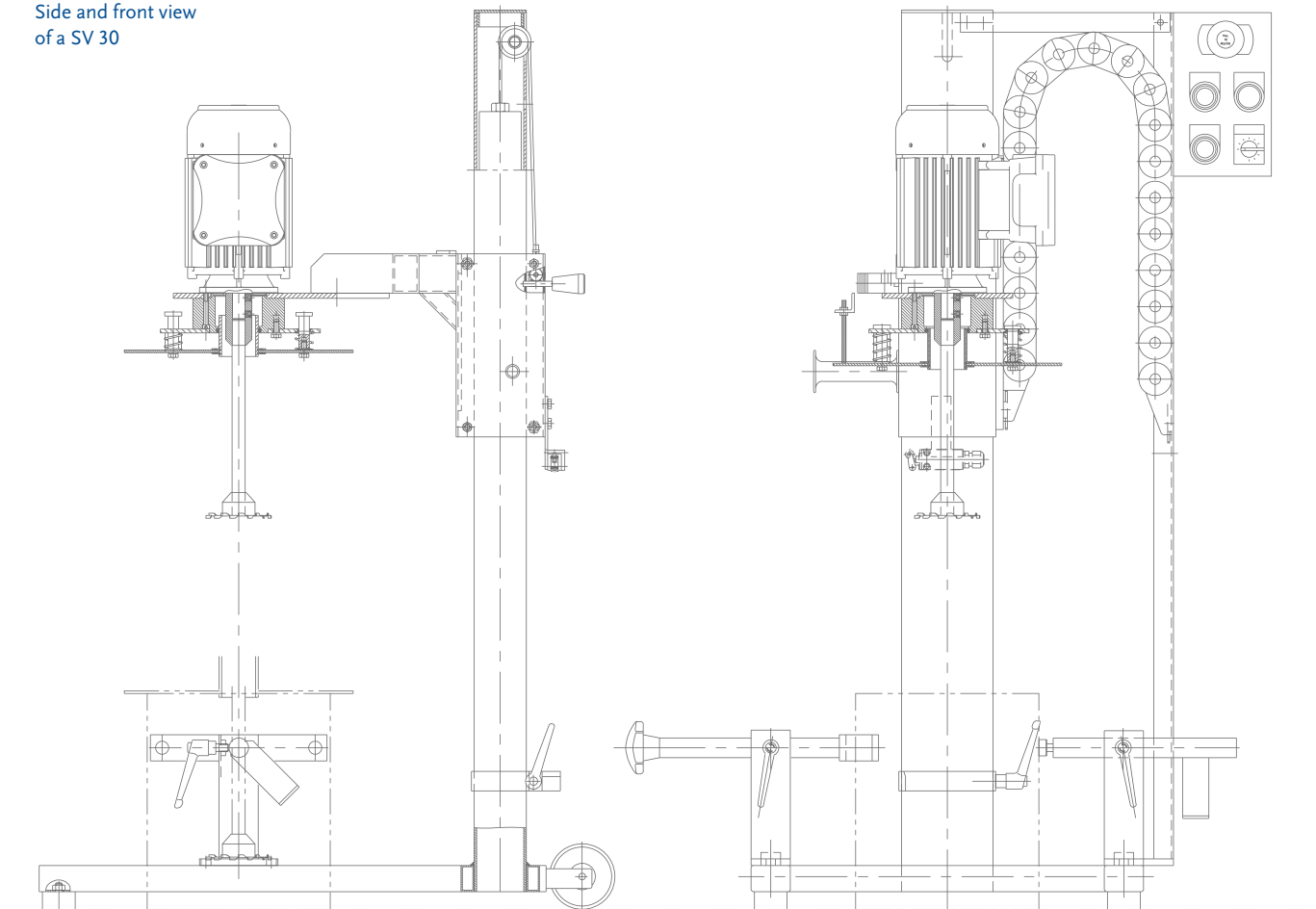
| Produkttype | Capacity [l] | Power [max. kW] |
|-------------|--------------|-----------------|
| SV 30       | 20-100       | bis 1.5 kW      |

Other solutions for this series upon request.



Small stand mixer SV 30

#### Side and front view of a SV 30



# SAFETY AND EQUIPMENT

## Safety equipment and options for tripod agitators

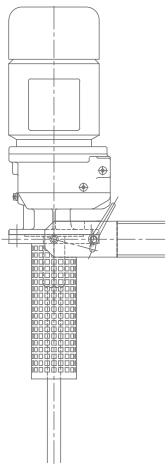
### Safety equipment

The tripod agitators are equipped with electric and mechanic safety devices after EC guideline for machinery 2006/42/EG which prevent the mixer from accidental starting and prevent access to moving parts. We provide you with extensive risk analysis for each tripod agitator to consider all possible sources of danger. Thus, our whole range of tripod agitators is CE-certified

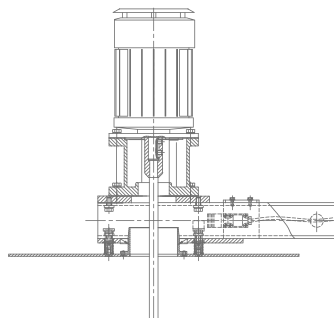
### Mechanical safety equipment

The stand mixers can be protected against access to moving parts with a shaft protection sleeve when used in open tanks which are big enough or with a spring-suspended lid when the tanks are small or tanks with various heights are used. The lift way is covered by bellows and the mixing tank is clamped in mixing position or checked by a limit switch arm.

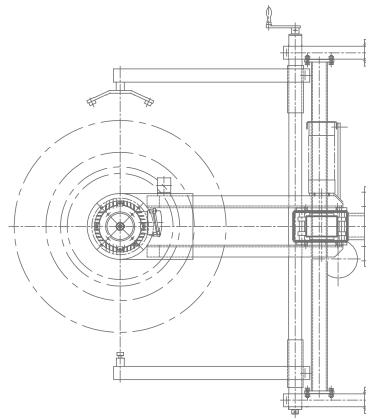
According to the customers' requirements, the spring suspended lid could be supplied with level sensors, and various nozzles and hubs for filling.



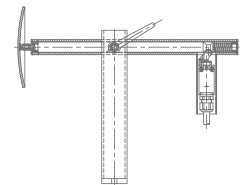
Shaft protection sleeve



Spring-suspended lid



Vessel clamp



Limit switch arm

### Electric safety equipment

The stand mixer is delivered with an electric safety control which allows operation of the mixer only when the mixer is in mixing position and when a vessel is positioned below the mixer.

#### Examples for Safety Control Boxes

- Single safety switch for manual stroke adjustment
- Single safety switch for electric stroke adjustment
- Ex-proof safety switch for manual stroke adjustment
- Ex-proof safety switch for electric stroke adjustment
- Ex-proof safety switch (control box outside of area with potentially explosive atmosphere, handling in this area)
- Pneumatic mixers feature a pneumatic safety switch with pneumatic limit switch.

## Equipment options for tripod agitators

Depending on the standard models, our tripod agitators can be equipped with a wide range of options and special features. Geppert Rührtechnik engineers this product line to your individual mixing task.

### Drives

- Drives with fixed speed
- Drives with special voltage
- Drives with thermistors for fc inverter operation
- Drives with integrated fc inverters
- Drives with helical gear box
- Drives with parallel shaft gear box
- Drives with worm gear box
- Mechanical variable speed geared drive
- Pneumatic drives
- Pneumatic gear drives

### Lift

- Manually with geared hand-wheel
- Electrically with lift drive and chain drive

### Tank positioning

- Manually with laterally movable brackets
- Laterally movable brackets with hand wheel and threaded spindle
- Limit switch arm for containers with plate switch
- Folding for use in drums or container

### Spring suspended lit

- Basic closed design with short lift way for single, open vessels and drums
- Basic closed design with long lift way for open vessels with various heights
- Limit switch-controlled filling and inspection flap (also as part of the lid)
- Nozzles and hubs for filling, pumps, aspiration, level sensors

### Wetted parts

- Stainless steel (1.4571) without surface treatment
- Ground and polished surfaces with recess-free transitions between single compounds
- Plastic covers (PP, PVDF)
- Coating with E-CTFE or PFA
- Special steels (1.4462, 1.4539, Hastelloy)
- For applications in the field of food and drug industry or clean room technology, the stand mixers can be manufactured completely in stainless steel with the lift mechanism being completely encased. The casing and the stand frame can be ground and polished.

### Protection from rotating parts

- Basic grip protection sleeve from perforated sheet for fixed agitator shaft couplings
- Grip protection sleeve with flap and limit switch for exchangeable agitator shafts
- Spring-suspended lid with bellow
- Spring suspended lid with telescope sleeve

### Explosion protection

Depending on the process requirement our tripod agitators feature an explosion-proof design to ATEX RL 2014/34/EU for operation in rooms classified as ex-zone 1 and 2 and tanks classified as ex-zone 0 - 2.



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