

# Our perfection – Your success

## Two different bearing systems are used:

- Roller bearings, maintenance free, max. speed 1000 rpm
- Roller and slide bearings, max. speed 540 rpm

## Type "B" bearing technology

The type B-60 slurry mixer is recommended for use in 3 x 8 m pits. It is equipped with combined roller-slide bearings and designed for operation in 455 x 455 mm or round Ø 450 mm access holes.

### Standard equipment type "B"

Outside tube:	Ø 60 mm
Bearing:	Roller bearing and slide bearing
Bearing spacing:	2100 mm, may be less depending upon length
Standard lengths:	3700, 4200, 4600, 5200 mm
PTO connection:	1 3/8" Z6 DIN 9611
Power consumption:	20-30 hp (15-22 kW) at 540 rpm
Mixing propeller:	Suction propeller Ø 380 mm
Direction of rotation:	Only approved as suction mixer, single direction of rotation
Capacity:	At 540 rpm = 1212 m <sup>3</sup>
Propeller cage:	450 x 450 mm, all edges raised, with Ø 415 mm blade passage hole
Weight:	45 kg at a mixer length of 4200 mm

## Type "C" bearing technology Roller and slide bearings

The type "C" range of mixers is considerably less expensive than the "E" type machines, their speed however is limited to 540 rpm max. This is a mandatory requirement due to the use of a slide bearing. The design of the "C" range machines allows for operation in suction mode only. Other than the speed limit, performance of the machines is identical.

### Serienausstattung Typ "C-76" and "C-102"

Outside tube:	Ø 76 mm or Ø 102 mm, depending upon the type (C-76 or C-102)
Bearing:	Roller bearing and slide bearing
Bearing spacing:	2100 mm, may be less depending upon length
Standard lengths:	3700, 4200, 4600, 5200, 6000 mm
PTO connection:	1 3/8" Z6 DIN 9611
Power consumption:	60-80 hp (44-49 kW) at 540 rpm
Mixing propeller:	Suction propeller Ø 560 mm, other diameters available
Direction of rotation:	Only approved as suction mixer, single direction of rotation
Capacity:	3352 m <sup>3</sup> at 540 rpm
Propeller cage:	625 x 625 mm, all edges raised, with Ø 590 mm propeller passage hole, other sizes available
Weight:	Mixer type C1-102, 4200 mm = 122 kg



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## Type "C/E" bearing technology Roller and slide bearings

The "C/E-102" slurry mixer uses roller bearing and slide bearing technology. The type C/E-102 mixer is designed for alternating axial loads which makes it suitable for 2 way rotation ope-

ration. During inverted operation the drive shaft is however submitted to very high axial loads and we therefore recommend the use of the inverter box only with the "E" series mixers where the

radial force is absorbed through the propeller area. Technical specifications are identical to those of the C-102 mixer. The maximum speed of the C/E-102 mixers is 540 rpm. As a low-cost alternative

with a reduced selection of accessories, the "C/E" series is also available with an outer tube Ø 76 mm.

### Standard equipment type "C/E-76" and "C/E-102"

Outside tube:	the "C/E" series is also available with an outer tube Ø 76 mm
Bearing:	Roller bearing and slide bearing
Bearing spacing:	2100 mm, may be less depending upon length
Standard lengths:	3700, 4200, 4600, 5200, 6000 mm, Custom lengths up to 6000 mm available
PTO connection:	1 3/8" Z6 DIN 9611
Power consumption:	60-80 hp (44-49 kW) at 540 rpm
Mixing propeller:	Suction propeller Ø 560 mm, other diameters available
Direction of rotation:	Alternating as required, sucking or pushing (drawing and damming)
Capacity:	3352 m <sup>3</sup> at 540 rpm
Propeller cage:	625 x 625 mm, all edges raised, with propeller passage hole Ø 590 mm, other sizes available
Weight:	type C/E1-102, 4200 mm = 122 kg

## Type "E" bearing technology Roller bearings

The "E" mixer range comes equipped with roller bearings.

**Maintenance-free main bearings (2 RS closed deep groove ball bearings) and a specialised sealing system allow the mixer to be operated without an oil filling.**

Two rotary shaft lips type seals together with grease chambers ensure the required sealing. The rotary shaft lips type seals are mechanically protected against foreign objects. The liner of the rotary shaft lips type seals consists of high grade polished stainless steel which prevents oxidati-

on. The maximum bearing spacing of the main bearings is 1500 mm. This type of bearing layout allows for mixer speeds of 1000 rpm. For small pit openings, it is often advantageous to work with a small mixing propeller and 1000 rpm.

**Mixers of types E1-102, E2-102, L-E1, L-E2 are equipped with this bearing system and approved for 1000 rpm.**

### Standard equipment type "E-102" (does not apply to series L-E1/L-E2)

Outside tube:	Ø 102 mm
Bearing:	Maintenance-free roller bearing
Bearing spacing:	1500 mm, may be less depending upon length
Standard lengths:	3700, 4200, 4600, 5200, 6000, 7000, 8000, 9000, 10000, 11000, 12000 mm Custom lengths 400 to 12000 mm available, others upon request
PTO connection:	1 3/8" Z6 DIN 9611
Power consumption:	60-80 hp (44-59 kW) at 540 rpm, 130-160 hp (95-117 kW) at 1000 rpm
Mixing propeller:	Suction propeller Ø 560 mm; other diameters available Pusher propeller Ø 560 mm; other diameters available
Direction of rotation:	Alternating as required, sucking or pushing (drawing or damming)
Capacity:	3352 m <sup>3</sup> at 540 rpm
Propeller cage:	625 x 625 mm, all edges raised, with propeller passage hole Ø 590 mm, other sizes available
Weight:	for mixer length of 4200 mm = 125 kg

## Type "E/HEM" bearing technology Oil filled

For a supplementary price on the types E and L-E, an oil filling is available together with a different type of bearing. The E/HEM bearing technology is a combination of the tried and tested HEM bearing used in the stationary and type E mixers.

The lower bearing system comprises two taper roller bearings, as do the central and top bearings. The maximum spacing of the central bearing is 1500 mm. The E/HEM bearing system is designed for continuous operation

at a maximum speed of 1000 rpm and two-way alternating rotational direction. E/HEM bearing systems are particularly well suited to permanently installed mixers. For optimum lubrication of the upper seal we recommend the fitting

of an oil expansion tank. When only used occasionally, the standard model with rotary shaft lips type seals will be adequate. For prolonged periods of operation we recommend using a mechanical seal.