

TPZ High - Performance Planetary Mixers



For the most diverse applications and highest demands
in the production of quality building materials.

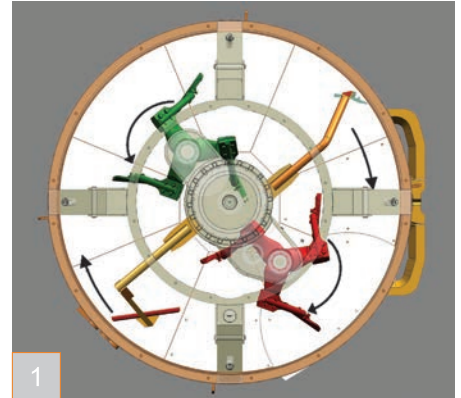
At TEKA everything revolves around mixing.

Teka

TEKA TPZ Planetary Mixers are available in sizes ranging from 250 to 4500 liters filling capacity, yielding output capacities from ¼ - 4 cu. yds.



1 | The efficient and aggressive mixing action of batch materials results in maximum homogenization in the shortest possible cycle times. Even the most demanding batch designs are thoroughly mixed, due to the effective design and rotation of the mixing arms and paddles.



2 | TPZ mixers have a low overall height due to the externally mounted discharge gate, and offer easy access to the inside of the mixer.



3 | The robust and compact design of the drive line uses only one motor for high efficiency. Hydraulic Turbo Couplings are standard on the TPZ 1500 and larger models. As an option, a frequency converter can be installed on all TEKA mixers, to optimally adjust the speed of the mixing arms.



4 | Separate hydraulic power packs operate the discharge gate(s). A manual hand pump is included to open discharge gates in case of a plant power outage. Discharge gate openings are large for short discharge times, but can also be opened to various degrees using proximity switches.



5

5 | The mixer hood design has several large spaces for material inlets. Cleaning/access doors can be installed in various locations, and are built with quick-release latches, gas-pressure pistons to keep them open, and electronic safety switches to stop mixer operation when they are opened.



7

7 | Electrical components are completely pre-wired to an electrical junction box.



8

8 | Production water is sprayed into the mixer through multiple nozzles.



6

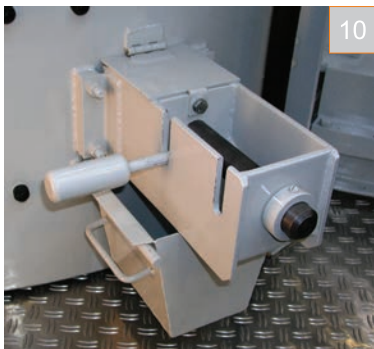
6 | TPZ mixers have low maintenance factors, and require gearbox oil changes only every 2500 hours. Central grease lubrication (except for rotating mixing stars) is standard. An optional motor-driven automatic grease lubrication pump is available.



9

9 | All TEKA mixers can be outfitted with a Skip Hoist to charge the mixer with batch materials. TEKA offers tilting skip hoists for very steep angles

(90°) of inclination, or the standard 60° non-tilting bottom-discharge type.



10

10 | As an option, mixers can have a Sample Gate.

Available options:

- Moisture probes (wall or floor mounted)
- Automatic Wash-out Systems
- Steam-injection through pneumatically operated steam nozzles in the outer wall
- Mixer Air Bags for dust control
- Replaceable wear liners made of AR Steel, Chromium Carbide, Chill-cast Tiles, or Ceramic Tiles
- Mixing Paddles made of Ni-hard Steel, Polyurethane, or with tungsten/carbide surfacing

TeKa

TPZ High - Performance Planetary Mixers

TPZ High-Performance Planetary Mixers

	TPZ	250	375	500	500G	750	1125	1500K	1500	1875	2250K	2250	3000	3750	4500
Maximum Filling Capacity	cu.ft.	9	13	18	18	27	40	50	50	66	80	80	100	132	160
	cu.yds.	1/3	1/2	3/4	3/4	1	1 1/2	2	2	2 1/2	3	3	4	5	6
	lbs.	900	1,300	1,800	1,800	2,700	4,000	5,300	5,300	6,600	8,000	8,000	10,600	13,200	16,000
Output Capacity	cu.yds.	1/4	1/2	3/4	3/4	1	1 1/2	2	2	2 1/2	3	3	4	5	6
Electric Motor of Mixer	hp	12	25	25	35	47	47	60	60	70	85	85	115	140	170
Electric Motor of Hydr. Unit	hp	1	2.5	2.5	2.5	4.5	4.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Mixing Stars	Qty.	1	1	1	1	1	1	2	2	2	2	2	3	3	3
Mixing Paddles per Mixing Star	Qty.	2	3	3	3	3	3	3	3	3	3	3	2	3	3
Wall Scraper/Discharge Paddles	Qty. ea.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/2	1/2	1/2
Speed of Main Rotation	RPM	23	20	20	18	18	14	19	19	16	13	13	13	11	11
Speed of Mixing Stars	RPM	57	53	53	50	43	43	52	52	44	42	42	36	39	37
Diameter of Mixer	in.	48	67	67	76	88	88	100	115	115	115	120	120	134	134
Height of Mixer	in.	64	81	83	83	83	89	103	103	105	108	113	123	134	138
Weight of Mixer (Standard Layout)	lbs.	2,900	5,500	6,200	6,800	7,500	8,200	10,000	11,000	11,700	14,300	16,300	21,600	24,900	25,300
Skip Hoist Filling Capacity	lbs.	850	1,200	1,600	1,600	2,400	3,600	4,800	4,800	6,000	7,200	7,200	9,500	11,900	14,200
Electric Motor of Skip Hoist	hp	4.5	4.5	8.5	15	15	18	29	29	29	36	35	47	58	58
Speed of Skip Hoist Bucket	inches/sec.	13	13	13	13	16	16	16	16	14	16	16	14	14	13
Weight of Skip Hoist Bucket	lbs.	800	1,200	1,800	1,800	3,100	3,750	4,600	4,600	4,850	6,600	6,600	8,800	11,200	11,250
Required Water Pressure	psi	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90	60 - 90

At TEKA everything revolves around mixing.

We offer, for the most diverse applications and the highest demands in quality concrete products and ready-mix concrete, customized solutions with the highest technical standards suited to the individual conditions with the right type of mixer from one source:

- TPZ HIGH-PERFORMANCE PLANETARY MIXERS
- THZ HIGH-PERFORMANCE PAN MIXERS also equipped with Agitator
- THT HIGH-PERFORMANCE PLANETARY MIXERS with mixing turbine
- TDZ HIGH-PERFORMANCE TWIN-SHAFT MIXERS

Consultation, Planning, Manufacturing, Installation, Service.
TEKA, mixing technology, proven worldwide for over 50 years.

TEKA - International



Parent Company and Headquarters:

Germany

TEKA Maschinenbau GmbH
 In den Seewiesen 2 • D-67480 Edenkoben • Germany
 Tel: +49 6323 809-0 • Fax: +49 6323 809-10
 info@teka-maschinenbau.de • www.teka.de

Wholly - Owned Subsidiaries:

TEKA North America
 www.tekamixers.com

TEKA France
 www.teka-france.fr

TEKA Spain
 www.teka.de

TEKA China
 www.teka-maschinenbau.cn

TEKA Poland
 www.tekapolska.pl



TEKA North America, Inc.

1009 Scenic Parkway • Unit F • Chesapeake, VA • 23323
 Tel: 757-558-8846 • Fax: 757-558-8847
 www.tekamixers.com • www.teka.de