

# | THZ High - Performance Pan Mixers



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

At TEKA everything revolves around mixing.

**Teka**

**TEKA THZ Pan Mixers are for batching operations and are available in sizes from 250 to 6000 liter filling capacities, yielding output capacities from 1/3 - 6 cu.yds.**



**1** | The mixer pan floor and walls are protected by replaceable wear liners. Depending on the application, wear liners are made of either A.R. steel, chill-cast tiles, hard faced steel, or ceramic tiles.

The spring-loaded mixing arms are mounted in the rotor housing and adjustable to compensate for wear. This, plus the various angles-of-attack of the paddles enhance the mix-effect, reduce wear and protect the drive from shock.



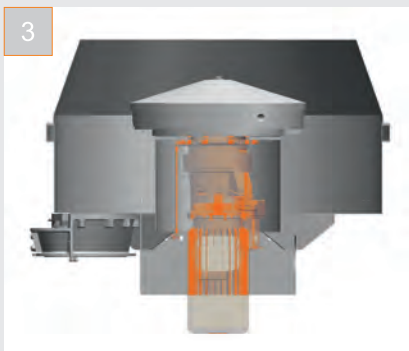
**2** | Central lubrication for the mixing arm bushings is available. Depending on the application, mixing paddles, wall scrapers, and mixing arm wear guards made of various abrasion-resistant materials are available. These include cast-iron W4, with complete tungsten-carbide surface, polyurethane, SPIKE cast-iron, nickel-free special casting, etc.



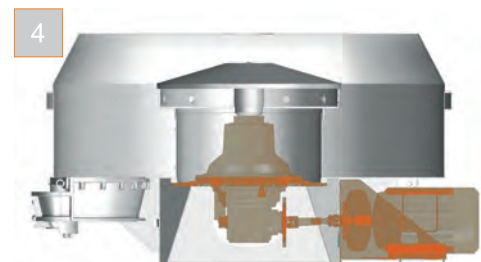
**3** | The centrally located planetary gearbox is driven by a 3-phase TEFC motor which is flangemounted directly to the gearbox, in the case of mixer sizes THZ 375 to THZ 750.



**4** | Mixer sizes THZ 1125G to THZ 6000 are driven by a horizontally mounted motor which is connected to the gear box by a universal joint drive shaft. A hydraulic turbo-coupling or frequency converter for soft starts under load are also available. Flanged to the gearbox and driven by it, is a hydraulic gear pump which constantly cycles the oil. Gearbox and discharge gate(s) use the same oil for less maintenance. This oil also supplies the pressure to operate the discharge gate(s).



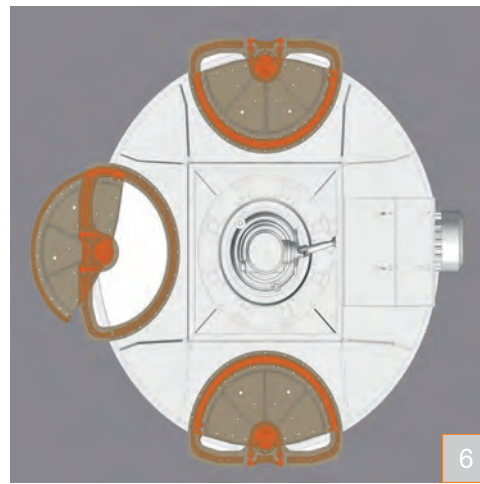
**5** | The discharge gate assembly, used to remove the batch from the mixer, is a complete heavy-duty component bolted to the mixer pan floor. The semi-circular gate is hydraulically operated by means of a rotary cylinder. It is electrically controlled and can be opened to any degree desired. Locating the pivot-point of the gate slightly inside the pan circumference allows for a large opening and thereby, a fast discharge. In case of a power outage, a manual hand pump for the discharge gate is standard. As an option, the discharge gate can be opened independent of the mixer main drive, via a separate hydraulic power-unit.





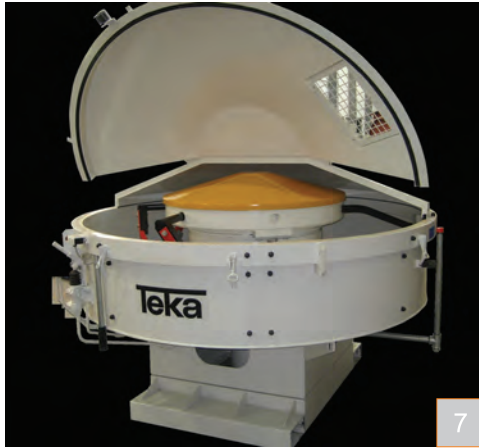


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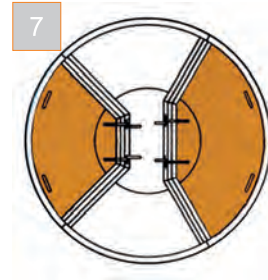
6 | Models THZ 250 to THZ 750 can be built with up to 4 discharge gates. Models 1125G to THZ 6000 can have up to 3 discharge gates. Sample gates are also available.



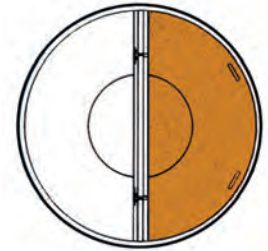
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7 | A protective mixer hood encloses the mixer pan. A built-in seal makes it near dustproof. Large, hinged segments with variable openings are possible, raised and lowered by a manual- or motorized cable winch. With no components located above the mixer hood, there are no obstructions to impede the arrangement of cleaning segments,

inspection doors, material inlets, etc. into the mixer pan.



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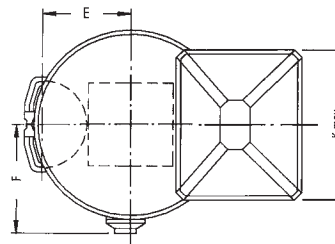
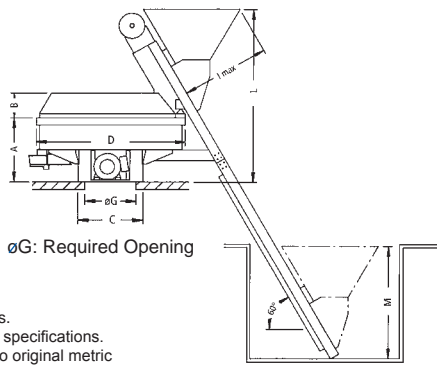


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8 | Depending on the plant design, charging the mixer by means of a skip hoist is possible. TEKA offers tilting skip hoists as well as the non-tilting, bottom discharge type. Inclination of the hoist track from 45° to 90° may be specified.

### TEKA High-Performance Mixers offer more mixing possibilities and optional equipment:

- Options include intensive mechanical and hydraulic agitator(s) using various mixing tools.
- Moisture metering by means of floor-mounted, wall-mounted or rotating electronic probes.
- Steam-injection through rotating lances, or through stationary nozzles.
- Mixer doubling as weigh-bin when mounted on load cells.
- Automatic Wash-out cleaning systems with rotating water spray nozzles.



Dimensions are rounded in inches.  
 Conversions are based on metric specifications.  
 For precise figures, please refer to original metric specifications.

For installation into existing plant,  
 request a certified drawing.  
 Specifications reflect the present  
 state of technology and are subject  
 to change with future development.

THZ Dimensions	A	B	C	D	E	F	G	B	I	K	L	M
250	33	12	23	53	30	-	20	12	36	41	83	47
375	36	14	27	66	30	-	21	14	39	43	89	51
500	40	16	34	74	34	-	25	16	42	52	95	55
750	45	18	39	86	39	-	29	18	46	59	107	625
1125G	45	15	51	112	53	56	45	15	59	79	119	78
1500G	45	15	51	112	53	65	45	15	59	79	124	82
1875	45	15	51	112	53	65	45	15	59	79	124	82
2250	51	13	51	117	55	65	45	13	68	869	134	86
3000	51	17	59	131	61	73	52	17	78	96	147	101
3750	62	12	62	149	70	96	53	12	-	-	-	-
4500	62	12	62	149	70	96	53	12	-	-	-	-
5250	62	13	70	169	80	94	53	13	-	-	-	-
6000	62	20	78	182	86	-	64	20	-	-	-	-

	THZ	250	375	500	750	1125G	1500G	1875	2250	3000	3750	4500	5250	6000
Max Filling Capacity	cu.ft.	9	13	18	27	40	50	66	80	106	132	160	185	212
	cu. yds.	1/3	1/2	2/3	1	1 1/2	2	2 1/2	3	4	5	6	7	8
	lbs.	900	1300	1,800	2,700	4,000	5,300	6,600	8,000	10,600	13,200	16,000	18,500	21,000
Output Capacity	cu. yds.	1/4	1/3	1/2	2/3	1	1 1/3	1 2/3	2	2 2/3	3 1/3	4	4 3/4	6
Electrical Motor Output	hp	12	17	25	35	60	60	70	85	115	140	170	210	250
Speed of Rotor	rpm	35	37	29	29	26	23	23	23	21	19	19	19	19
Weight of Mixer	lbs.	2,000	3,300	4,200	5,500	9,300	10,000	10,100	14,000	17,000	21,000	22,000	25,500	28,000
Skip Hoist Filling Capacity	lbs.	825	1,200	1,600	2,400	3,600	4,800	6,000	7,200	9,500	11,900	14,200	-	-
Skip Hoist Motor Output	hp	3	4	7.5	10	20	20	22	28	28	45	50	-	-
Speed of Hoist Bucket	in./sec	13	13	13	16	16	16	13	16	14	14	13	-	-
Weight of Skip Hoist Bucket	lbs.	800	900	1,800	2,200	3,750	4,600	4,850	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

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