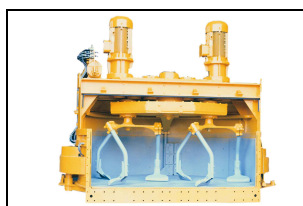
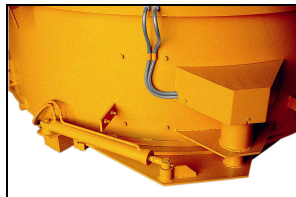
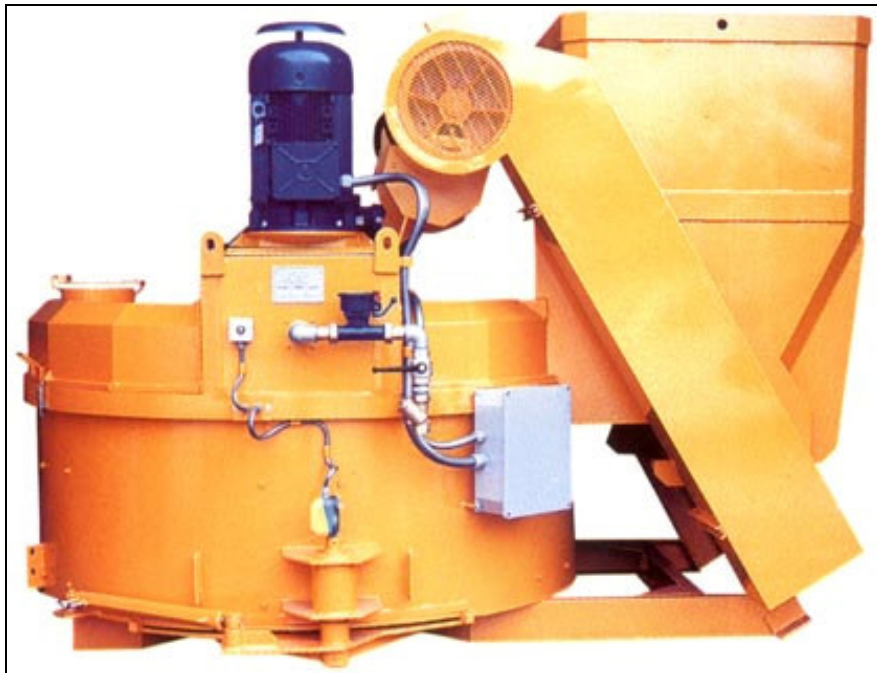




OFFICINE MECCANICHE GALLETTI

Planetary Concrete Mixer



OFFICINE MECCANICHE GALLETTI

DESCRIPTION VERTICAL SHAFT MIXERS:

MIXING TANK:

The mixing tank is made out of an extremely thick steel sheet, mounted on a channel section frame and designed in such a way as to allow for several discharge openings. The entire tank is protected by a casing to prevent dust coming out and the mixer operation will be blocked by a micro switch if the door at the front should be opened.

TANK BOTTON AND WALLS:

Both the tank bottom and tank wall has interchangeable bolted sections made from extremely thick steel with Fe37 resistance. On request wear plates are available with a hardness of 360HB.

THE MIXING ARMS:

The three mixing arms (6 arms for P1500 and P2000) and the peripheral arms are provided with steel drill rods and allow for an adjustment of the mixing shovels with regard to the bottom and walls of the tank.

MIXING BLADES:

The mixing shovels are made out of NY-hard wear proof cast iron with an average hardness of 630HB, particularly suitable for heavy mixing operations.

THE DISCHARGE OPENING:

The discharge door has circular sectors in the bottom of the tank (three supplementary discharge doors can be installed on request) is operated by a worm screw hand wheel to facilitate manual movement, or by an hydraulic or pneumatic cylinder with limit switches to stop for the automatic version. The hydraulic power pack can be provided with a hand pump in case of emergency and the discharge door can be equipped with a gutter conveyor or a hopper for transporting the badge, with manual, thrust or automatic control.

THE PLANETARY GEAR BOX:

The planetary gear box, the true heart of the mixer, has been especially developed in order to withstand extreme forces and stresses under heavy working conditions even during several continuous working shifts. The gear box is supported by a bolted frame that can easy be dismantled and forms a bridge over the mixing tank. The planetary gear box casing is made of cast iron with a ferritic-pearlitic base. The conical bearings and gear wheels guarantee a longer life time and are also more silent at high speeds. The gear wheels are made of 18NCD5 case hardening steel and are heat treated. The surface of the teeth can reach a hardness of 58-60 RC. The drive shafts are made out of 39NCD3 hardened and tempered steel with an average tensile strength of 900 N/mm². The conical bearings guarantee a greater static and dynamic load, and are adjustable. The reduction gears work in an oil bath which guarantees a maximum lubrication under severe conditions. The reduction unit is coupled with the electric motor by means a full load. (This application is standard for models P1500 and P2000 and can be provided on request for the other models).

THE ELECTRIC MIXING MOTOR:

The electric motor can be supplied for different voltages and frequencies and is complies to the standard Class B with insulating materials of class F or H, tropicalized and with IP55 protection.



THE MOBILE LOADING BUCKET:

The shape of the loading skip is a truncated pyramid and is ideal for containing the aggregates and transfers the material in the mixing tank by means of a hinged bottom, preventing the dust coming out. The skip has four wheels and rolls in a U-shaped frame with a 60° inclination. (a 70° inclination can be arranged on request). The exclusive hoisting system consists of two cable drums and work with a self-braking, double disk graded electric motor. The hoist keeps the bucket in a perfect upright position even with eccentric loads. The stroke is stopped at both ends by an adjustable micro safety device that

prevents the bucket from falling in case of cable breakage. The motor descent movement is stopped by a micro switch in case the bucket should be blocked along the track during descent. The loading bucket can be fixed to the mixer, as a pre-loading storage bin, or it can be equipped with load cells applied for batching and weighing the aggregates.

THE ELECTRICAL EQUIPMENT:

The electric control cabinet is constructed to international standards and contains the motor control circuits provided with auxiliary relays for automatic operation. The control cabinet works with low voltage controls (24, 48 or 110 Volts). Overload cutouts and fuses guarantee double protection for all three motors. Luminous push-buttons, indicating the various function operations, are installed on the door of the electric board, equipped with door-lock switch, together with an emergency push-button.

MIXER SUPPORTING STRUCTURE:

The supporting structure is built up from trellis, columns or portal type with heights varying from one to five meters, calculated to ensure maximum stability even in zones with high seismic risks.

THE SERVICE PLATFORM:

The service platform is made of chequered plate, mounted around the mixing tank to facilitate for safe machine maintenance. Access is possible by a ladder provided with a handrail and designed to international safety regulations.

MIXING CYCLE:

The mixing cycle takes approx. three minutes from loading of the mixture aggregates with the fixed mobile skip controlled by a hydraulic or pneumatic cylinder. The bucket opening micro switch activates the discharge of the cement previously batched on the balance. It is advisable to add the cement by means of a screw feeder to obtain a gradual discharge of approximately 15" in order to avoid forming of dust and heaps which increases the maximum time and avoid the formation of lumps. When discharging directly from the balance, mix dry for approx. 15" before adding the water, either directly from the mains or through a high precise water meter (average water intake time is approx. 10". Mix for approx. 40" till the concrete leaves the mixer for conveying the mixture or for approx. 60" when the mixture is intended for prefabricated articles. In case the aggregates are loaded with a belt conveyor, the cement can be added continuously. On completion add water and mix for 30".

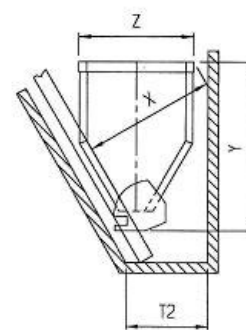
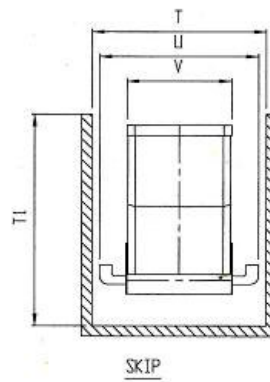
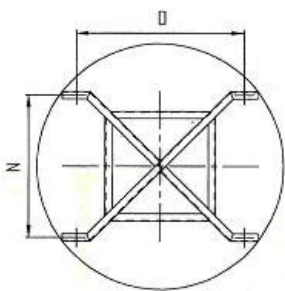
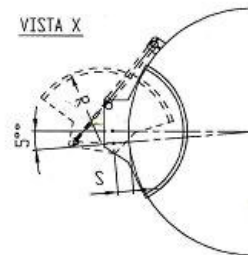
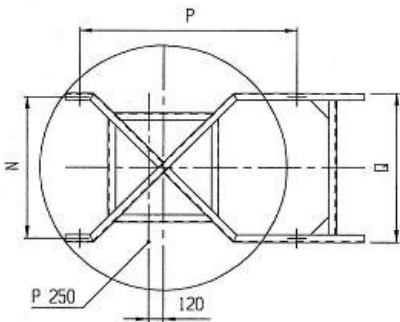
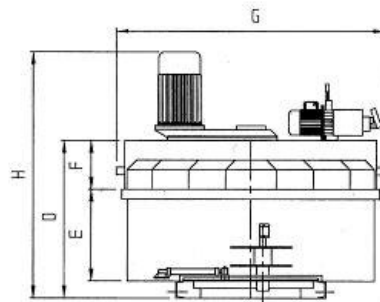
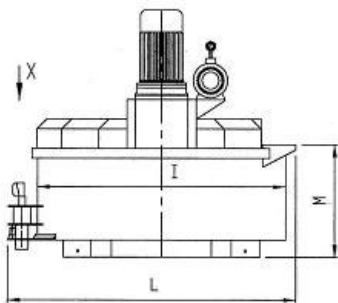
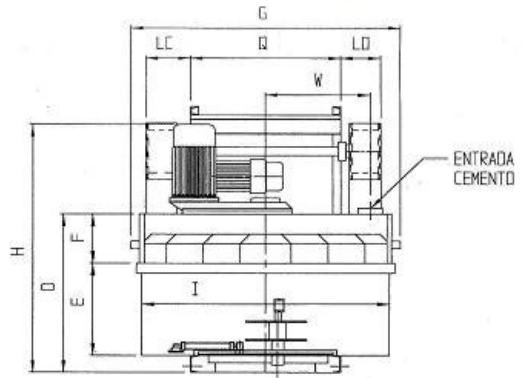
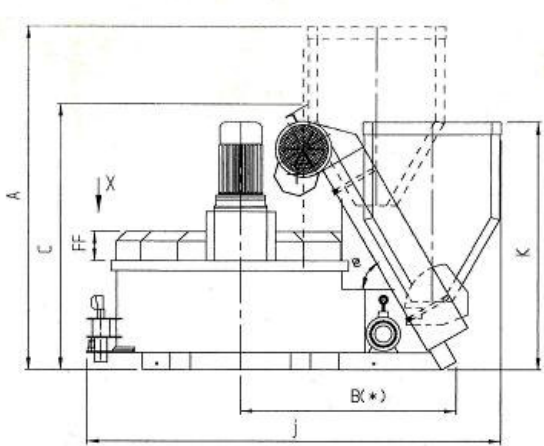
Discharge time is approx. 20" for repetitive cycles or approx. 40" for complete emptying of the tank.



Technical information:

	P 250	P375	P 500RS	P 500	P 750	P 1000	P 1000TN	P 1500	P 1500TN	P 2000
*LOAD CAPACITY IN LTS. (S.W.. 2400 kg/CU.M.)	375	560	630	750	1125	1500	1500	2250	2250	3000
UNVIBRATED YIELD IN LTS. (P.S.W. 2400 kg/CU.M.)	300	450	500	600	900	1200	1200	1800	1800	2400
VIBRATED YIELD IN LTS. (S.W.. 2400 kg/cu.m.)	250	375	420	500	750	1000	1000	1500	1500	2000
MAX. LOAD CAPACITY IN Kg.	600	900	1000	1200	1800	2400	2400	3600	3600	4800
SKIP VOLUMETRIC CAPACITY IN LTS (s.w.2400 KG/c.u.m.)	412	616	693	825	1237	1650	1650	2475	2475	3330
MAX. SKIP LOAD CAPACITY IN KG.	495	742	831	990	1485	1980	1980	2970	2970	3960
Ø INTERIOR OF PAN IN MM.	1260	1580	2000	1820	2000	2200	2400	2400	2600	3420
PAN MOTOR HP	10	15	20	25	40	60	60	40+40	40+40	60+60
SKIP MOTOR HP	2	3	4	5.5	7.5	10	10	15	15	15+15
HIDRAULIC POWER PACK MOTOR HP	2	2	2	2	2	2	2	2	2	2
PLANETARY REVOLUTIONS PER MINUTE	18.5	18.8	18.8	19.5	20	17.5	14.5	14.5	14.5	13
SPIDER REVOLUTIONS PER MINUTE	38.5	39	39	41	42	36.5	43.5+43.5	30	30+30	26+26
SKIP SPEED mt./sec.	0.25	0.25	0.25	0.25	0.3	0.25	0.25	0.25	0.25	0.3
NUMBER OF LONG PERIPHERAL ARMS	1	1	1	1	1	1	1	1	1	1
NUMBER OF SHORT PERIPHERAL ARMAS	-	-	-	1	1	1	1	1	1	1
NUMBER OF LONG MIXING ARMS	3	3	3	3	3	3	3+3	3	6	6
NUMBER OF SHORT MIXING ARMS	-	-	-	-	-	-	-	3	-	-
NUMBER OF RECTANGULAR PERIPEHRAL BLADES	1	2	3	5	5	5	5	5	7	7
NUMBER OF PERIPHERAL BLADES WITH TAIL	1	1	-	1	-	-	-	-	-	-
NUMBER OF PERIPHERAL BLADES WITH CURL TAIL	-	-	1	-	1	1	1	1	1	1
NUMBER OF MIXING BLADES	3	3	3	3	3	3	3+3	3	6	6
WEIGHT OF MIXER WITHOUT SKIP Kg.	900	1400	1700	2000	2700	3700	4700	4700	6300	8500
WEIGHT OF MIXER WITH SKIP Kg.	1400	2000	2400	2700	3700	4900	5900	6800	8400	12000
WEIGHT OF MIXER WITH FIXED SKIP Kg	1300	1900	2300	2585	3450	4600	5200	6450	8050	11400

Drawings



OMG

OFFICINE MECCANICHE GALLETTI

Dimensions :

	A	B	C	D	E	F	FF	G	H	I	L	LC	LO	M	N	O
P250	1840	1260	1610	900	500	300	190	1440	1360	1260	1520	280	280	600	850	800
P375	2150	1420	1740	1110	620	370	275	1760	1700	1580	1860	280	280	740	945	1100
P500RS	2200	1546	1740	1005	505	420	295	2180	1595	1990	2230	280	280	615	955	955
P500	2450	1595	1970	1180	700	340	205	1990	1800	1820	2110	280	280	850	1040	1300
P750	2810	1750	2170	1290	750	400	240	2190	2050	2000	2335	365	325	920	1160	1360
P1000	3100	1860	2330	1450	750	540	350	2380	2200	2200	2500	365	325	940	1285	1480
P1000TN	3100	2041	2365	1450	750	540	360	2580	2200	2400	2700	365	325	940	1000	1000
P1500	3350	2050	2490	1620	900	540	360	2540	2330	2400	2790	430	385	1120	1430	2000
P1500TN	3200	2205	2430	1600	750	670	490	2780	2310	2600	2950	430	385	950	1200	1200
P2000	4000	2750	2850	1680	850	630	380	3670	2450	3420	3750	470	470	1050	1450	1450

	P	Q	R	S	T	T1	T2	U	V	Z	X	Y	J	K	W
P250	1220	900	380	125	1550	1100	800	1230	750	910	850	965	2200	1550	500
P375	1420	1000	480	125	1600	1300	800	1320	850	960	1000	1215	2600	1720	650
P500RS	1250	1000	550	70	1600	1800	850	1320	850	920	1050	1385	2810	1985	800
P500	1620	1100	560	140	1700	1500	900	1380	925	1050	1130	1335	3070	1650	700
P750	1760	1220	610	140	2000	1850	900	1650	1020	1120	1300	1650	3360	2020	850
P1000	1920	1350	640	130	2140	1900	900	1760	1150	1110	1350	1790	3520	2200	900
P1000TN	1440	1350	640	130	2140	1900	900	1760	1150	1110	1350	1790	3670	2430	1000
P1500	2350	1500	700	130	2400	2100	1150	1950	1200	1400	1580	1915	3960	2550	1000
P1500TN	1800	1500	700	130	2400	2100	1150	1950	1200	1400	1580	1915	4220	2430	1130
P2000	2000	1500	700	135	2400	2500	1550	2100	1220	1700	1850	2300	5040	3420	1450



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