

CONCRETE MIXERS



A

IMER MIXING SYSTEM

The Imer mixing system is developed through various distinguishing points: the type of large-based drum with reinforcement, the particular geometry of the mixing paddles and the low drum speed. The material mixed, analysed by the system of progressive screens, is homogeneous and well blended.



B

BOLTED MIXING PADDLES

The mixing paddles are bolted for easy replacement; the drum is more resistant to the risks of breakage, which are higher in correspondence with the welding spots in the case of welded paddles.



D

THERMAL PROTECTION

All machines with electric motor are fitted with IP 55 switch with no-volt coil. Thermal protection protects the motor against overload; the no-volt coil prevents the machine from being started again inadvertently after a power failure.



E

MAXIMUM SAFETY FOR THE OPERATOR

All moving parts are adequately protected.

QUICK DRIVE BELT TENSIONING

Tensioning the motor drive belt is easy and safe.

**C**

SPECIAL BUSHINGS FOR RELIABLE TILTING

The arm rotation bushings for tilting the drum are made of special antifriction polyamide material fitted with grease nipple.

They feature high resistance against wear and abrasion and ensure reliability and durability especially in continuous use.

OUTSIDE CONTROLS "WITHIN REACH"

The electric switch and power plug are positioned directly in the tilting control area, so they are always easy to use.

**F**

HIGH RESISTANCE BELT

The motor drive belt is made of high-resistance Poly-V and is housed in the arm compartment of the drum suitably protected by a guard.

**G**

GEARMOTOR

The adoption of the gearmotor ensures protection against accidental overturning and offers maximum safety, eliminating all the possible risks typical of traditional machines.



STACKABLE FOR STORAGE

All the machines can be stacked to facilitate transport and storage operations.

NORMATIVE REFERENCES

- Compliance with the requirements of Machine Directive (2006/42/EC)
- Compliance with EEC Directives (2006/95/EC, 2004/108/EC, 2000/14/EC)
- The following Harmonised Standards have been applied: Harmonised Standards EN ISO 12100-1-2, EN 60204-1, EN 12151.

Standard Equipment

- ✓ Single-phase 230V/50Hz motor (all models) - IP55 switch and no-volt coil
- ✓ Version with Subaru Robin EX 17DU IMER petrol engine 4.2 kW (Syntesi 190, 250, 350), unleaded petrol feed
- ✓ Transmission system with high resistance belt and steel gears in oil bath that are maintenance-free
- ✓ Movement towbar
- ✓ Poly drum version, available on Syntesi 140



SYNTESI 140
with **STANDARD**
DOUBLE INSULATION 
in accordance with Std. EN12151



Syntesi 140 HDPE



Syntesi 140



Syntesi 350

Applications

Designed and built to solve the typical problems of traditional concrete mixers. The transmission system inserted in the arm and the convenient worm screw tilting system make it noiseless and lightweight, and at the same time sturdy and reliable.

220V/60Hz SPH

MOTOR AVAILABLE

- ✓ **Syntesi 140**
- ✓ **Syntesi 350**



Version with petrol engine

Syntesi 190, 250, and 350

Subaru Robin EX 17DU IMER (4.2 kW)



Shipment and storage

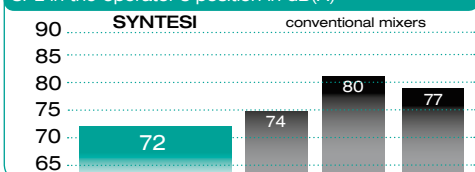
The Syntesi 140 is supplied already packed in a cardboard box.



Shipment and storage

The Syntesi 190, 250, 300 and 350 can be stacked for transport and storage

SPL in the operator's position in dB(A)



Maximum silence

The new drive system reduces noise and makes the SYNTESI concrete mixers particularly noiseless.

		SYNTESI 140	SYNTESI 160	SYNTESI 190*	SYNTESI 250*	SYNTESI 300*	SYNTESI 350*
Drum capacity/batch output**	litres	138/~100	160/~115	190/~160	235/~190	314/~250	345/~280
Drum diameter	mm	610	610	702	702	823	823
Wheel dimensions	Ø mm	200x50	200x50	295x54	370x85	385x90	385x90
Electric motor power rate 230V/50Hz	kW	0.3	0.3	1	1	1.4	1.4
Running current 230V	A	2.2	2.2	5	5	8	8
Petrol engine power	kW	—	—	4.2	4.2	—	4.2
El. motor/petrol eng. SPL in operator's position	dB(A)	72/—	72/—	72/85	72/85	72/—	72/85
El. motor/petrol eng. machine weight	kg	54/—	59	106/125	119/143	173/—	175/186
Machine dim. with electric motor w/l/h	mm	800/1330/1220	800/1330/1280	793/1465/1334	840/1465/1476	930/1610/1575	930/1610/1600
Machine dim. with petrol engine w/l/h	mm	—	—	793/1790/1334	840/1790/1476	—	930/1920/1600

(*) Available in three-phase 400V/50Hz version on request (**) The mixing capacity varies depending on the type of material and inclination of the drum

SYNTESI R SYNTESI 350 LA SYNTESI 350RS

Road towable mixers with two pneumatic wheels

Syntesi R Standard Equipment

- ✓ Single-phase 230V/50Hz electric motor - Positioned in a sheltered compartment, protected from dust and atmospheric agents
- ✓ Version with Subaru EX13 3.2 kW (Syntesi 190R, Syntesi 250R) or Subaru EX17 4.2 kW (Syntesi 350R) petrol engine
- ✓ Transmission system with high resistance belt and steel gears in oil bath that are maintenance-free
- ✓ Towbar for road transportation up to 90 km/h (road towability is valid only in countries where this is allowed)
- ✓ 2 pneumatic wheels

115V/60Hz SPH

MOTOR AVAILABLE

✓ Syntesi 350 LA

Syntesi 350 LA Standard Equipment

- ✓ Honda GX 160 4 kW or Subaru EX17 4.2 kW petrol engine
- ✓ Transmission system with high resistance belt and steel gears in oil bath that are maintenance-free
- ✓ Towbar for transport around the jobsite (not towable on road)
- ✓ 2 pneumatic wheels

Syntesi 350RS Standard Equipment

- ✓ Single-phase 230V/50Hz electric motor 1.4 kW
- ✓ Version with Honda GX 160 4 kW or Subaru EX17 4.2 kW petrol engine
- ✓ Transmission system with high resistant belt and steel gears in oil bath that are maintenance-free
- ✓ Towbar for transportation around the jobsite (not towable on road)
- ✓ 2 pneumatic wheels



Syntesi S350 R



Syntesi 350 LA



Shipment and storage

The Syntesi 350 LA can be stacked for transport and storage

		SYNTESI 190R	SYNTESI 250R	SYNTESI 350R	SYNTESI 350 LA	SYNTESI 350RS
Drum capacity/batch output*	l	190/160	235/190	345/280	345/280	345/280
Drum diameter	mm	702	702	823	823	823
Wheel dimensions	Ø mm	2.50/8"	4.50/10"	135/13"	135/13"	4.50/10"
Electric motor power rate	kW	1	1	1.4	—	1.4
Running current 230V	A	5	5	8	—	8
Petrol engine power	kW	3.2	3.2	4/4.2	4/4.2	4.2
El. motor/petrol eng. LP in operator's position	dB(A)	72/85	72/85	72/83	—/85	72/85
El. motor/petrol eng. machine weight	kg	128/144	160/176	224/232	—/186	215/240
Machine dim. with electric motor w/l/h	mm	1500/1610/1440	1500/1750/1580	1610/2270/1690	—	1225/1875/1600
Machine dim. with petrol engine w/l/h	mm	1770/1610/1440	1770/1750/1580	1910/2270/1690	930/1920/1600	1225/1920/1600

(*)The mixing capacity varies depending on the type of material and inclination of the drum.

WORKMAN II

Road towable mixers with two pneumatic wheels

Workman II 250/350 Standard Equipment

- ✓ Honda GX 160 4 kW or Subaru EX17 4.2 kW petrol engine
- ✓ Transmission system with high resistance belt and steel gears in oil bath that are maintenance free
- ✓ Towbar for road transportation up to 90 km/h (road towability is valid only in countries where this is allowed)
- ✓ 2 pneumatic wheels

Applications

Designed and built to solve the problems of traditional mixers, the Syntesi R, Syntesi 350RS, Syntesi F, Syntesi 350 LA and Workman II 250-350 are fitted with two or four pneumatic wheels for displacement. The worm screw tilting system protects against accidental overturning of the drum and reduces effort, while the gearbox warrants maximum silence.



Workman II

		WORKMAN II 250	WORKMAN II 350
Drum capacity/batch output	l	235/190	345/280
Drum diameter	mm	702	823
Wheel dimensions	Ø mm	4.50-10"	4.50-10"
Electric motor power rate	kW	—	—
Running current 230V	A	—	—
Petrol engine power	kW	4/4.2	4/4.2
El. motor/petrol eng. LP in operator's position	dB(A)	—/83	—/83
El. motor/petrol eng. machine weight	kg	—/206	—/248
Machine dim. with electric motor w/l/h	mm	—	—
Machine dim. with petrol engine w/l/h	mm	914/1829/1397	953/1943/1422



Shipment and storage
34 units in 40 feet HC container

Syntesi F Standard Equipment

- ✓ Diesel or petrol engines or 230V/50Hz electric motors
- ✓ Transmission system with high resistance belt and steel gears in oil bath that are maintenance-free
- ✓ Towbar for transport around the jobsite (not towable on road)
- ✓ 4 large-sized ALL TERRAIN pneumatic wheels (front steering)

Applications

Designed and built to solve the problems of traditional mixers, the Syntesi R, Syntesi 350RS, Syntesi F, Syntesi 350 LA and Workman II 250-350 are fitted with two or four pneumatic wheels for displacement. The worm screw tilting system protects against accidental overturning of the drum and reduces effort, while the gearbox warrants maximum silence.



Syntesi 350 FD
Lombardini 15LD350
Diesel engine, 5.5 kW

Yanmar L48
Diesel engine, 3.5 kW

		SYNTESI 350 FD	SYNTESI 350 FG	SYNTESI 350 FES
Drum capacity/batch output*	l	345/280	345/280	345/280
Drum diameter	mm	823	823	823
Front wheels		4.50-10"	4.50-10"	4.50-10"
Rear wheels		135-13"	135-13"	135-13"
Electric motor power rate	kW	—	—	1.4
Running current 230V	A	—	—	8
Int. combustion engine power	kW	5.5	4	—
LP in operator's position	dB(A)	87	85	72
Machine weight	kg	220	218	210
Machine dimensions w/l/h	mm	950/1920/1600	950/1920/1600	950/1920/1600

(*) The mixing capacity varies depending on the type of material and inclination of the drum.

Standard Equipment

- ✓ Single-phase 230V/50Hz motor
- ✓ Gearmotor in die-cast aluminium with gears in oil bath protected by a shatter-resistant plastic housing;
- ✓ Available in the versions with steel drum and poly drum (HDPE)
- ✓ IP 55 switch with no-volt coil and IP 67 plug
- ✓ Electric safety: built to EN 60204-1 double insulation norms, protected against spraying water (IP 55), overload and also against inadvertent starting again after a power failure.
- ✓ Steel mixing paddles
- ✓ Packing: cardboard

115V/60Hz SPH

MOTOR AVAILABLE

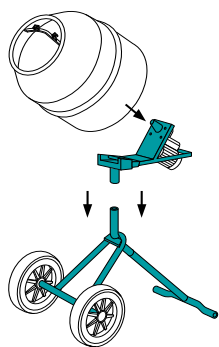
✓ **Minibeta**

Applications

The simplicity of assembly/disassembly and a low noise level of 63 dB(A) make it particularly suitable for working indoors.



MINIBETA
with **STANDARD**
DOUBLE INSULATION 
in accordance with Std. EN12151



Simple and fast assembly

Assembly and disassembly of the MINIBETA is simple and takes just 3 minutes. After use it can be split into the 3 main components and put back in the box.

Electrical safety

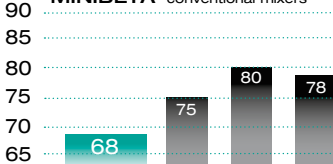
Fitted with double insulation, the Minibeta mixer is manufactured in accordance with Std. EN 60204-1 and is protected against spraying water (IP55) and also against overload and inadvertent starting again after a power failure.

Maximum silence

The Minibeta is extremely quiet. The noise level of 63 dB(A) makes it possible to work indoors without causing bother.

SPL in operator's position in dB(A)

MINIBETA conventional mixers



MINIBETA

Drum capacity	l	138
Batch output	l	~100
Drum diameter	mm	610
Wheel dimensions	Ø mm	250x60
Motor power rate	kW	0.3
Running current	A	2.8
SPL in operator's position	dB(A)	63
Machine weight	kg	55
Machine dim. w/l/h	mm	720/1300/1430
Packing dim. w/l/h	mm	665/665/675



Standard Equipment

- ✓ Single-phase 230V/50Hz electric motor
- ✓ Gearmotor with steel and technopolymer gears
- ✓ Available in the versions with steel drum and poly drum (HDPE)
- ✓ Electric safety: built to EN 60204-1 double insulation norms, protected against spraying water (IP 55) and against overload and inadvertent starting again after a power failure.
- ✓ Packing: cardboard

Optional Accessory

- ✓ Rotating pivoting support

115V/60Hz SPH

MOTOR AVAILABLE

✓ **Rollbeta**

Applications

It is the lightweight, compact concrete mixer easy to transport, ideal for small building sites or refurbishment work. Its construction features make it suitable for professional use.



ROLLBETA
with **STANDARD DOUBLE INSULATION** 
in accordance with Std. EN12151



ROLLBETA

Drum capacity	l	138
Batch output	l	~100
Drum diameter	mm	610
Wheel dimensions	Ø mm	370x60
Motor power rate	kW	0.3
Running current	A	2.3
SPL in operator's position	dB(A)	63
Machine weight	kg	46
Machine dim. w/l/h	mm	660/1170/920
Packing dim. w/l/h	mm	660/730/700



Rotating pivoting support (optional)

BIO 2-400

Reversing Drum Concrete Mixer

BIO 2-400 Standard Equipment

- ✓ Three-phase 400V/50Hz motor
- ✓ Cylinder with hopper fall prevention safety system
- ✓ Pneumatic wheels
- ✓ Water tank with level indicator
- ✓ Side protection guards

Optional Accessories

- ✓ Scraping shovel with 20 m coiler unit and clutch
- ✓ Side conveyor

Applications

BIO 2-400 is designed for big building sites. The scraping shovel loading system allows to get a concrete hour production up to 8 m³/h.

Separate loading of water and aggregates

The materials are admitted to the drum separately; this feature improves the quality of the batch, making it more homogeneous and well blended.



Bio 2-400		
Drum capacity	l	400
Mix capacity	l	320
Water tank capacity	l	45
Concrete hour production	m³/h	8
Overall dims. raised LxWxH	mm	1860/2350/2800
Machine weight	kg	930
Motor power rate 400V/50Hz	kW	3
Absorbed curr.	Amp	7.7
Pneumatic wheels		2

Scraping Shovel		
Motor rating 400V50Hz	kW	1.5
Absorbed current	Amps	4
Traction speed	m/sec	0.5
Traction capacity	kg	400
Drum rpm	n/min	63
Steel cable	m	20

BIO 750/BIO 1000 Standard Equipment

- ✓ Three-phase 400V/50Hz electric motor 4.1 or 5.6 kW (BIO 750)
- ✓ Three-phase 400V/50Hz electric motor 7.5 kW (BIO 1000)
- ✓ Diesel engine version Lombardini 25LD425/2 Electric Starter 14.1 kW (BIO 750)
- ✓ Diesel engine version Lombardini 12LD477/2 Electr. Starter 17.25 kW (BIO 1000)
- ✓ Piston with hopper fall prevention safety system
- ✓ Pneumatic wheels
- ✓ Water tank with level indicator
- ✓ Side protection guards

**AVAILABLE ONLY FOR
NON-EU COUNTRIES**

Applications

BIO 750 and BIO 1000 are designed for big building sites. The scraping shovel loading system allows to get a concrete hour production up to 18 m³/h.

Optional Accessories

- ✓ Scraping shovel with 20 m coiler unit and clutch (only for electric models)
- ✓ Side conveyor (only for electric models)



Scraping Shovel Only for Bio 750 E2/E4 and BIO 1000 E4

Motor rating 400V50Hz	kW	1.85
Absorbed current	Amps	4.6
Traction speed	m/sec	0.72
Traction capacity	kg	257
Drum rpm	n/min	92
Steel cable	m	12

		BIO 750 D2	BIO 750 D4	BIO 750 E2	BIO 750 E4	BIO 1000 D4	BIO 1000 E4
Drum capacity	Liters	750	750	750	750	1000	1000
Mix capacity	Liters	550	550	550	550	600	600
Water tank capacity	Liters	80	80	80	80	80	80
Drum diameters	mm	1300	1300	1300	1300	1300	1300
Drum rpm	rpm	19	19	19	19	19	19
Concrete hour production	m³/h	17	17	17	17	18	18
Overall dims. raised LxWxH	mm	3000x2100x3000	3000x2100x3000	3000x2100x3000	3000x2100x3000	3150x2100x3000	3150x2100x3000
Machine weight	kg	1360	1360	1250	1250	1390	1260
Motor rating Electric	kW (Hp)	-	-	4.1 (5.5)	5.6 (7.5)	-	7.50 (10)
Motor rating Diesel	kW (Hp)	14.1 (19)	252525LD425/2	-	-	17.25 (23)	-
Diesel Engine /Motor		Lombardini 25LD425/2 Electr.Starter			400V50Hz	Lombardini 12LD477/2 Electr. Starter	
Absorbed curr.	Amps	-	-	9.6	12	-	7.2
Pneumatic wheels		2	4	2	4	4	4

Standard Equipment

- ✓ Three-phase 400V/50 Hz motor or Diesel engine: Lombardini 15LD500 8.1 kW
- ✓ Pneumatic wheels and legs adjustable in height
- ✓ Water tank with level indicator
- ✓ Separate loading of water and aggregates
- ✓ Side protection guards
- ✓ Drum rotation gear guard

Optional Accessories

- ✓ Scraping shovel with 20 m coiler unit and clutch
- ✓ Side conveyor

Applications

The mixing system with tilting drum makes it possible to mix different materials like mortars, plasters and concrete.



Scraping shovel and side conveyor



BRO 500
Lombardini 15LD500
Diesel engine, 8.1 kW

BRO 500

Drum capacity	l	550
Batch output	l	290
Batches/h	n.	30
Water tank capacity	l	65
Motor power rate 400V/50Hz	kW	2.9 (8.1)
Running current	A	6.4
SPL in operator's position	dB(A)	85
Machine weight	kg	1020
Dimensions w/l/h	mm	1855/2150/3100

SCRAPING SHOVEL

Motor power rate	kW	1.5
Running current	A	4
Electric cable length	m	20
Steel rope length	m	20
Traction speed	m/sec	0.5
Traction capacity	kg	400
Drum speed	rpm	63
Weight	kg	105

