

AS600 Mecalac

EN



AS600  
Mecalac





**MOBILITY**



**STABILITY**



**SPACE MANAGEMENT**







# Switch to **THE SWING CONCEPT**

## **MECALAC REVOLUTIONIZES LOADING**

The Mecalac Swing loader – with high efficiency and speed of action – provides top performance on all construction sites.

Its ability to simultaneously drive, maneuver and pivot is key to the high productivity. Switch to space management, mobility and stability.



**WATCH THE VIDEO**





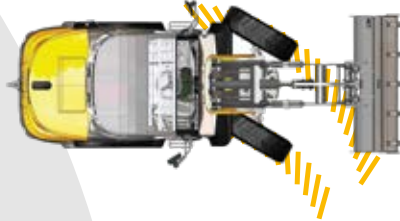
## SWING CONCEPT

# Switch to MOBILITY

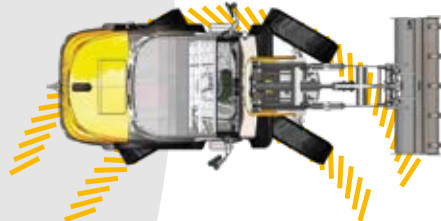
### 3 STEERING MODES

Urban construction sites are often congested, workspace is limited and ground conditions are often compromised. Designed around a one-piece frame with 3 steering modes as standard - 2 wheel steering, 4 wheel steering, crab - the mobility of this machine is 100% assured.

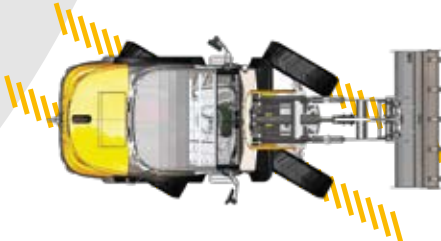
#### 2 WHEEL STEERING



#### 4 WHEEL STEERING



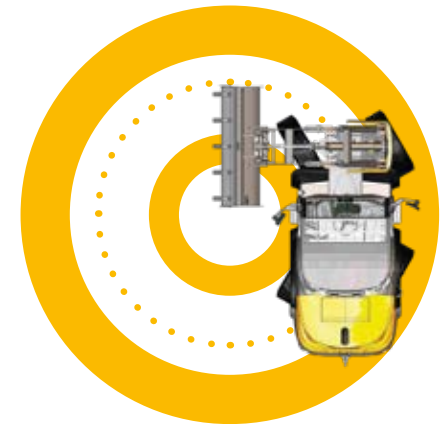
#### 4 WHEEL CRAB STEERING



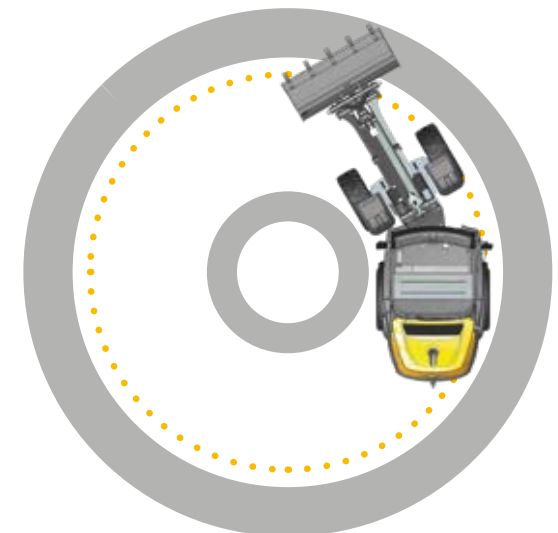
### TURNING RADIUS OVER BUCKET

With 4 wheel steering, combined with the 180° swivel arm, the Mecalac Swing can perform a complete rotation on a footprint that is 20% smaller than that of a conventional loader.

#### SWING LOADER



#### ARTICULATED LOADER





WATCH THE VIDEO







## SWING CONCEPT

# Switch to STABILITY

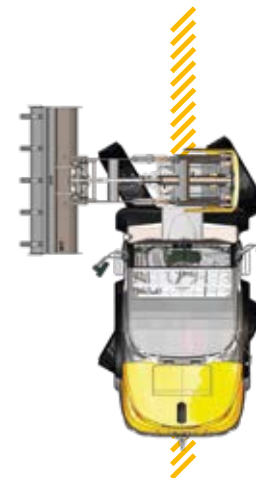
## PROVEN STABILITY

Whatever is lifted by the bucket at the front, once the rear axle is locked, can be turned through 180° without any loss of steadiness. Thanks to this incredible stability in all positions and on all terrains, the Swing loader is able to radically transform the logistics of construction sites. Whatever the circumstances, it never loses its equilibrium whether moving on site, between sites or during the various work stages, maintaining its mobility while reliably and securely overcoming any obstacles with ease. Its small turning radius ensures a very high degree of maneuverability, even on the most confined sites.

### SWING LOADER



**100%  
STABILITY**



**100%  
STABILITY**

### ARTICULATED LOADER



**100%  
STABILITY**



**75%  
STABILITY**



WATCH THE VIDEO





## SWING CONCEPT

# Switch to SPACE MANAGEMENT

## MECALAC SWING, IMMEDIATE EFFICIENCY

Urban construction sites and places with limited space and time are the natural environment for the compact wheeled loader. In addition to this compactness, essential in these environments, the efficiency of a wheeled loader is determined by its loading and unloading cycles.

These cycles consist of many time consuming maneuvers that account for a large proportion of a conventional loaders working time. Taking these considerations as a starting point, the innovative Mecalac Swing loader concept was born.

The swing concept places an even greater focus on the actual operation of a wheeled loader in order to make it more efficient and more comfortable for the driver.



### SWING LOADER



### ARTICULATED LOADER

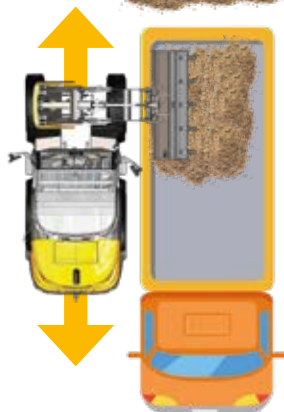


## COMPACTNESS, EFFICIENCY

Greater benefit in operation has already been achieved by saving time in all maneuvers and avoiding unnecessary movements to optimize the use of the available space on site. The Swing loader, thanks to its arm, pivots instead of having to reposition. As a result, less time is wasted, less noise and visual nuisance are generated, less maintenance is required, and there is a lower risk of accidents and less impact on the environment. For example, a conventional loader needs 10 meters of footprint to load a truck, the Swing only needs 5 meters.



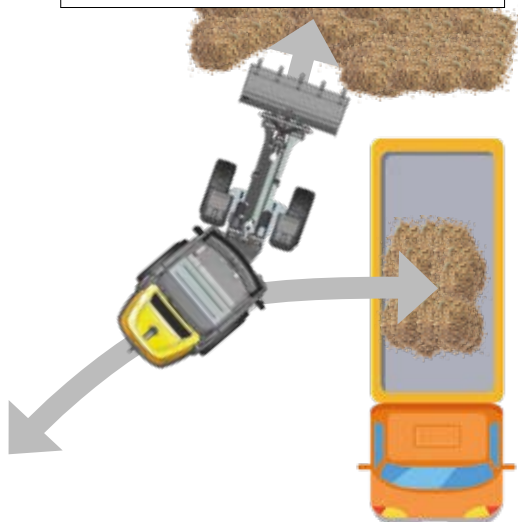
## SWING LOADER



5M [16'4"]



## ARTICULATED LOADER



10M [32'8"]



## SANDING A TRENCH

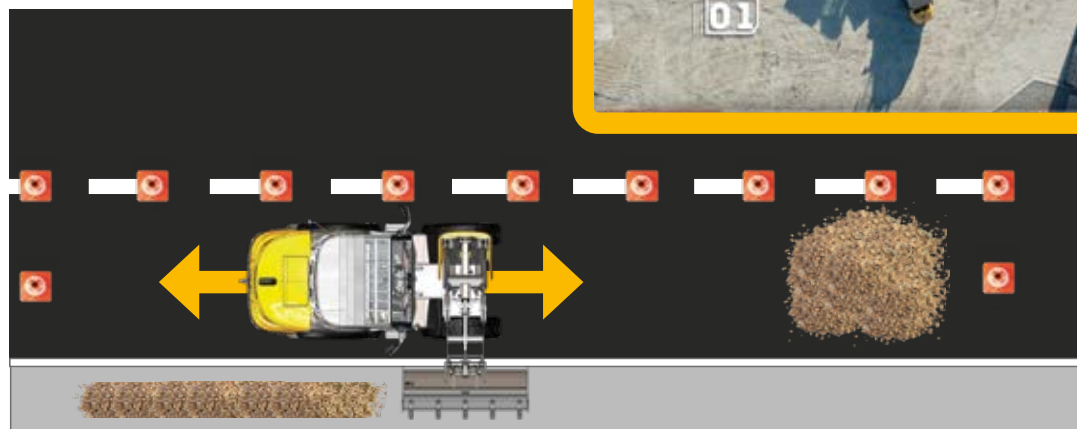
In the same way, not blocking traffic while filling a trench also means time saved and disruption minimized. The unparalleled compactness of the Mecalac Swing loader allows it to dump sand in a single lane where other loaders encroach on two lanes.



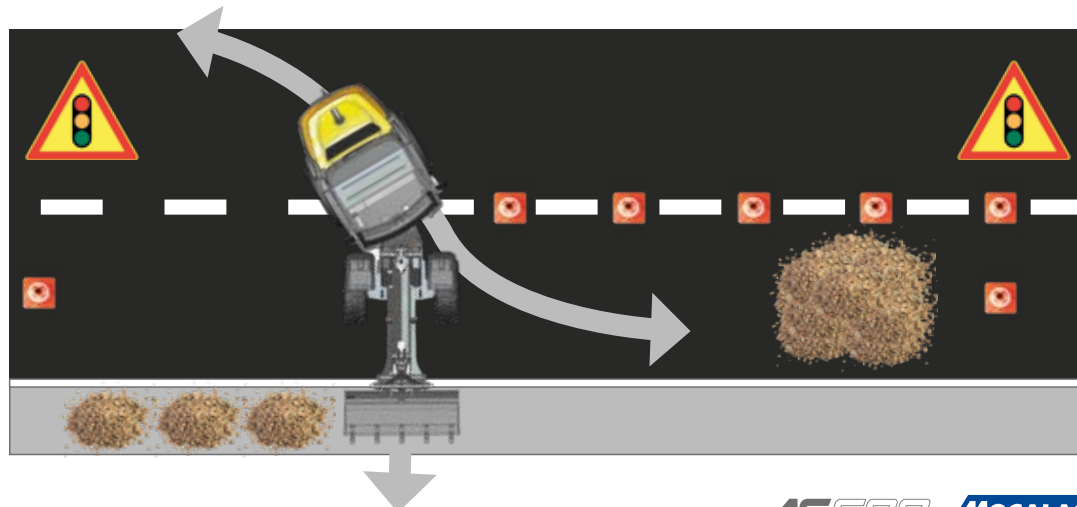
WATCH THE VIDEO



## SWING LOADER



## ARTICULATED LOADER





# TECHNICAL DATA

DATA	AS600
Operating weight	4400 kg (9,700 lb)
Engine power	36.4 kW/49.5 hp (48.8 imperial hp)
Bucket capacity	0.70 – 1.20 m³ (0.78 - 1.6 yd³)

- Zero-play, chain operated 180° swing system
- Comfortable panoramic driver's cabin with ROPS safety system
- Servo-assisted joystick controls
- High-performance, power-controlled, hydrostatic four-wheel drive
- Four-wheel steering system with automatic alignment
- Planetary axles with self-locking differential on front axle
- P-Kinematics
- Excellent parallel lifting characteristics
- Hydraulically controlled quick-coupler with electric safety feature
- Wide range of attachments

ENGINE	AS600
Low-noise, water-cooled Deutz TCD 2.2 L3 turbo diesel engine with intercooler. Common Rail injection system, cooled external exhaust gas recirculation, diesel oxidation catalyst (DOC).	EU Stage V U.S. EPA Tier 4 Final*
Net power at acc. to ISO 14396	2300 rpm 36.4 kW/49.5 hp (48.8 imperial hp)
Max. torque at acc. to ISO 14396	1600 rpm 180 Nm
Air intake filter: 2-level dry-air filter with safety cartridge	•
Electrical system: - Operating voltage - Battery capacity - Alternator rating	12 Volt 95 Ah 120 A

\*Depending on your Local Legislation - Environmental Protection Agency (EPA)



DRIVE	AS600
Hydrostatic drive with automotive control, stages for maximum propulsive force, shiftable under load, multifunctional lever (joystick) for drive and working hydraulics control	•
Axles: planetary axles with four-wheel steering for maximum manoeuvrability, oscillating rear axle with suspension	•
Differential lock: self-locking differential in front axle	•
Wheels: - Tyre size - Optional	12.5-18 15.5/55 R18
Speeds: - Road gear - Field gear	0-20 km/h (0-12 mph) 0-5 km/h (0-3.10 mph)
Oscillation: max. oscillation angle	+/-9°

BRAKES	AS600
Working brakes: 1. Hydrostatic inching brake, acting on all 4 wheels 2. hydraulically operated disc brake at the front axle, acting on all 4 wheels	• •
Parking brake: Mechanically activated parking brake, acting on all 4 wheels, with deactivation of the drive	•

STEERING	AS600
Hydrostatic four-wheel steering with 3 steering modes with automatic alignment (four-wheel, front-wheel and crab steer)	•
Max. steering angle	+/-35°
Turning radius, measured over: rear	3185 mm (10'4")

HYDRAULIC SYSTEM	AS600
Dual-circuit system with gear pumps 1. Working hydraulics circuit (lift/lower, tilt, accessories), and steering (via priority valve); three-way control valve with primary and secondary safeguards	•
Max. operating pressure at 2300 rpm	40 l/min (10.6 gal/min) and 230 bar (3336 psi)
2. Circuit (swivelling) single control valve with primary and secondary protection	•
Max. operating pressure at 2300 rpm	20 l/min (2.4 gal/min) and 200 bar (2900 psi)
Float position for lifting cylinders Cylinder: 2 lifting cylinders 1 tilting cylinder 2 swing cylinders	• • •

PERFORMANCE DATA	AS600
Bucket position: - Crowd angle - Dump angle top	45° 45°
Tipping load: - Standard bucket, max. steered, straight - Standard bucket, max. steered, 90°-swivelled	2150 kg (4740 lb) 2250 kg (4960 lb)*
Tipping load and payload on forks: Tipping load: max. steered, frontal, even terrain max. steered, 90°-swivelled	1850 kg (4079 lb) 2000 kg (4519 lb)*
Payload: max. steered, frontal, even terrain max. steered, 90°-swivelled	1500 kg (3307 lb) 1650 kg (3637 lb)*
Tipping load	according to ISO 14397
Payload	according to EN 474-3

\* With additional counterweight

FILLING CAPACITIES	AS600
Fuel tank	approx. 65 l (17.2 gal)
Hydraulic system with tank	approx. 55 l (14.5 gal)

CHASSIS	AS600
Rigid, single-frame chassis with rear axle support for maximum stability, especially when working in swivelled position	•
Sealed articulated/oscillated pivot with play-free, chain operated swinging system with constant turning speed and power	•
Operator's cab with flexible four-point mountings for maximum driver comfort and minimum noise levels	•
The servo-assisted joystick controls are smooth, accurate and long lasting	•

**NOTE:** METRIC MEASUREMENTS ARE THE CRITICAL VALUES

- 1 Litre = 0.26417 US Liquid Gallons
- 1 Litre = 0.21997 Imperial Liquid Gallons



# STANDARD / OPTIONAL

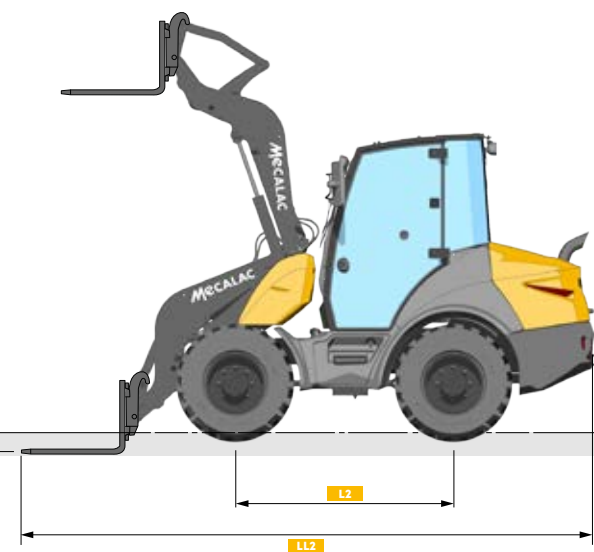
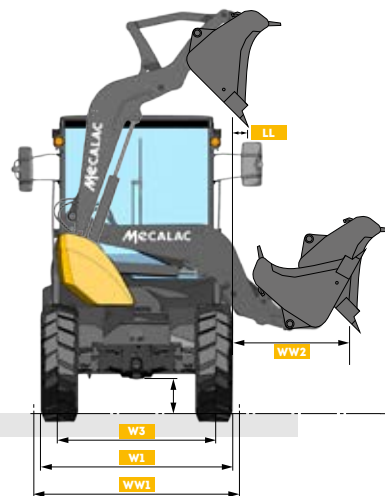
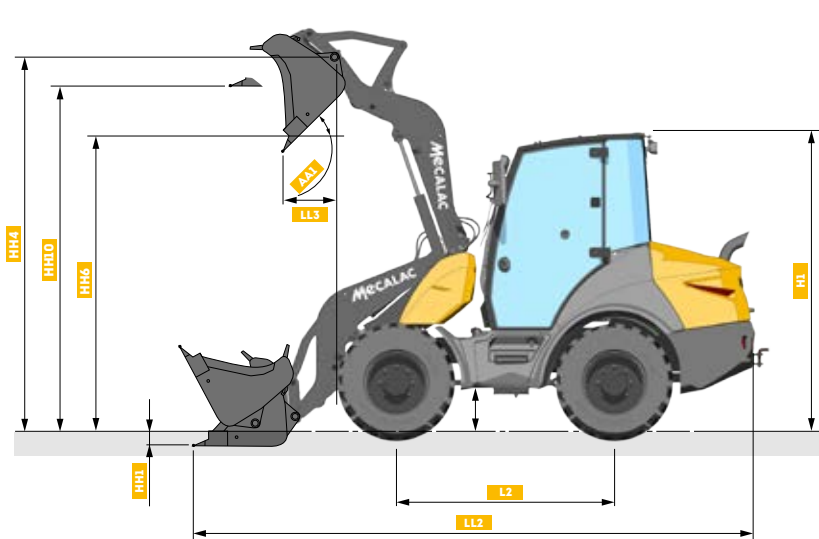
STANDARD FEATURES	AS600
Amplly dimensioned ROPS and FOPS panoramic comfort cabin with 2 lockable doors	•
Single piece floor mat for easy cleaning	•
Tinted windows	•
Parallel guided windscreen wiper	•
Rear wiper	•
Front and rear screen washing device	•
Heated rear window	•
2 large fold away outside mirrors	•
Tinted roof window	•
Steering column is adjustable in height and inclination	•
Ergonomically adjustable joystick	•
Multiply adjustable driver's seat	•
Safety belt	•
Sun visor	•
Heating and ventilation system with fresh air filter	•
Main battery switch	•
Interior light	•
12 V socket	•
Coat hook	•
Storage pockets in the cabin	•
Intuitive modular control panel with onboard computer for machine monitoring	•
2 driving lights on cabin roof	•
Single key system	•
Hydraulic quick coupler with electric safety device	•
Towing coupling	•
Fastening and lifting points	•
On/Off 1 <sup>st</sup> auxiliary hydraulics circuit is integrated in the joystick	•
Color scheme: yellow	•
Operator's cabin, axles and wheels: grey	•

OPTIONAL EQUIPMENT	AS600
30 km/h version	•
Wide tires	•
Interior mirror	•
Acoustic back up alarm	•
2 <sup>nd</sup> auxiliary hydraulics	•
Permanent function for auxiliary hydraulics	•
High performance hydraulic	•
Safety valves	•
Boom suspension	•
Bio-degradable oil fill for hydraulic system	•
Pressureless return line	•
Inching speed	•
Lockable differential on rear axle	•
Air-conditioning system	•
Heated outside mirrors	•
Immobilizer	•
Diesel Particulate Filter, DPF (standard in Europe)	•

Standard and optional equipment may vary.  
Consult your Mecalac dealer for details.

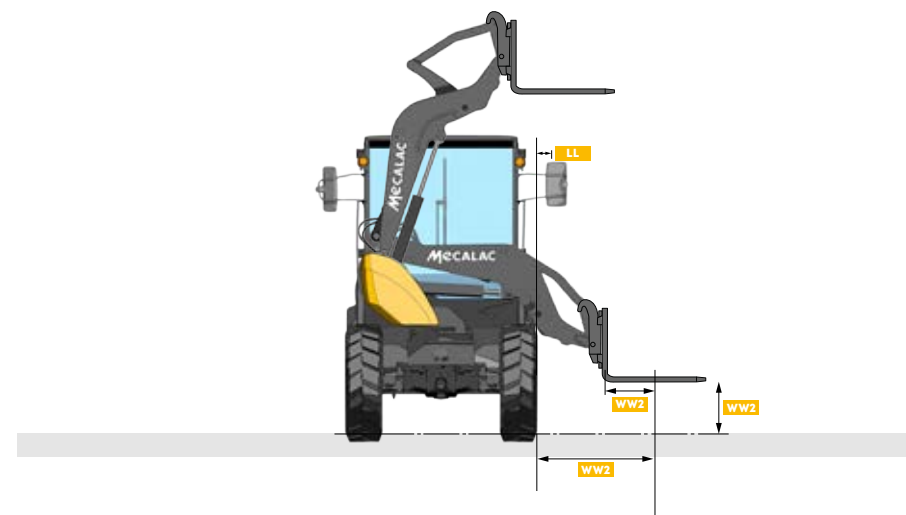


# + DIMENSIONS



MACHINE	AS600
BUCKET	STD. 0.70 m³ (0.92 yd³)
AA1	45°
H1	2495 mm (8'2")
HH1	62 mm (0'2.4")
HH4	3275 mm (10'9")
HH6	2495 mm (8'2")
HH10	2980 mm (9'9")
L2	1790 mm (5'10")
LL	25 mm (0'9.8")
LL2	4944 mm (16'2")
LL3	415 mm (1'4")
W1	1585 mm (5'2")
W3	1400 mm (4'7")
WW1	1680 mm (5'6")
WW2	1500 mm (4'11")

MACHINE	AS600
FORK	
CC	1160 mm (3'9")
GG	1280 mm (4'2")
HH1	40 mm (0'1.6")
HH9	3003 mm (9'10")
KK	769 mm (2'6")
LL	1102 mm (3'7")
PP	500 mm (1'7")





SWING CONCEPT



Switch to  
**SWING**

**AS600** NEW



CHARACTERISTICS	
Operational weight (kg)	4400 (9.700 lb)
Power (kW/hp)	36.4/49.5 ( 48.8 imperial hp)
Bucket volume (m³)	0.6 - 0.8 (0,78 - 1 yd³)

**AS700**



CHARACTERISTICS	
Operational weight (kg)	5980 (13,183 lb)
Power (kW/hp)	55.4/75 (74.3 imperial hp)
Bucket volume (m³)	0.7 - 1.2 (0.92 - 1.6 yd³)



# AS<sub>900</sub>



CHARACTERISTICS	
Operational weight (kg)	6640 (14,638 lb)
Power (kW/hp)	55.4/75 (74.3 imperial hp)
Bucket volume (m <sup>3</sup> )	0.9 - 1.5 (1.2 - 2 yd <sup>3</sup> )

# AS<sub>1600</sub>



CHARACTERISTICS	
Operational weight (kg)	10920 (24,074 lb)
Power (kW/hp)	100/136 (134 imperial hp)
Bucket volume (m <sup>3</sup> )	1.6 - 2.5 (2.1 - 3.3 yd <sup>3</sup> )

# AS<sup>tele</sup><sub>900</sub>



CHARACTERISTICS	
Operational weight (kg)	7250 (15,983 lb)
Power (kW/hp)	55.4/75 (74.3 imperial hp)
Bucket volume (m <sup>3</sup> )	0.7 - 1.2 (0.92 - 1.6 yd <sup>3</sup> )

# AS 210<sub>e</sub>



CHARACTERISTICS	
Operational weight (kg)	15000 (33,070 lb)
Power (kW/hp)	129/175 (173 imperial hp)
Bucket volume (m <sup>3</sup> )	2.1 - 3.0 (3 - 4 yd <sup>3</sup> )

**MECALAC FRANCE S.A.S.**  
2, avenue du Pré de Challes  
Parc des Glaisins – CS 40230  
Annecy-le-Vieux  
FR - 74942 Annecy Cedex  
Tel. +33 (0)4 50 64 01 63

**MECALAC BAUMASCHINEN  
GMBH**  
Am Friedrichsbrunnen  
D-24782 Büdelsdorf  
Tel. +49 (0)43 31/3 51-319

**MECALAC CONSTRUCTION  
EQUIPMENT UK LTD**  
Central Boulevard,  
ProLogis Park  
Coventry, CV6 4BX, UK  
Tél. +44 (0)24 7633 9539

**MECALAC İŞ MAKİNELERİ  
SAN VE TIC. LTD. ŞTİ.**  
Ege Serbest Bölgesi Nilüfer 1 Sok. No: 34  
35410, Gazimur  
İzmir - Türkiye  
Tel. +90 232 220 11 15



**WWW.MECALAC.COM**