



M1100C
SERIES 2

M1100C Compact
SERIES 2



HYDREMA



TECHNICAL DATA:

Hydraulic system:

Load Sensing system with variable oil quantity, swinging priority, power regulation and pressure limitation. Separate circuits for the servo and brake system.

Working hydraulics: Oil flow, max.: 165 l/min.

Max. pressure: 310/330 bar (M1100C compact).

Extra hydraulic function ZV1: Max. oil flow: 90 l/min.

Max. pressure: 160 bar (adjustable).

Extra hydraulic function ZV2: Max. oil flow: 40 l/min.

Max. pressure: 130 bar (adjustable).

Undercarriage:

Transmission: Hydrostatic drive, variable motor with drive brake valve. 2-speed powershift transmission. Permanent 4-wheel drive and differential lock on the rear axle.

	Standard	Option
Transport gear 2	0-20	0-30 km/h
Creep speed gear 2	0-11	0-16 km/h
Off-road gear 1	0-6	0-6 km/h
Creep speed gear 1	0-2	0-2 km/h

Axles: Axles with planetary reduction gear in all wheel hubs.

Rocker-mounted front axle with lock for axle oscillation.

Oscillating angle: ± 8°

Swing system:

Slewing ring with internal teeth and long-service lubrication.

Speed of rotation, upper body: 8.5 revolutions/min.

Moment of inertia, upper body: 32 kNm

Steering:

Full hydraulic steering with emergency steering.

Brakes:

Hydraulic twin circuit braking system. Maintenance-free multi-disc brakes immersed in oil, lockable when carrying out excavation work. Parking brake via gearbox, acting on all wheels.

Electrical system:

Voltage: 24 V. Battery capacity: 2 x 88 Ampere hours.

Alternator: 55 Amp. 1320 W. Starter motor: 4 kW (5.4 hp).

Working lights: 6 x 70 W.

Instrument panel:

Electronically operated control panel with plastic keyboard.

Computer-controlled instrument panel with the following functions: automatic monitoring of important machine functions with alarm – saving of machine data for service and machine hire – control of excavating unit.

Engine:

Perkins 1104D-44TA stage 3a engine. 4.4 l turbo diesel engine with air/air intercooler, 16 valves and common rail injection. 96 kW/131 hp at 2200 rpm. Max. torque 516 Nm at 1400 rpm. Latest engine technology which meets EEC stage 3a requirements for exhaust emissions.

Cab:

Spacious cab with opening front windscreen. Window in door can slide open, roof window, adjustable steering column, multi-adjustable and vibration-damped comfort seat. Multi-adjustable armrest. Automatic climate control unit with cooling compartment under the seat. Radio with CD and MP3. Comprehensive soundproofing of cab and engine bay.

Excavator:

Adjustable (two-piece) boom V 3.7.

Noise level:

EU noise levels: 2000/14/EC

LwA: (exterior) 97 dB (A) - LpA: (cab) 73 dB (A)



The professional 11-tonne machine Hydrema's M1100 series is not an overgrown mini-digger, but an extremely robust excavator constructed in the same way as much larger machines. When designing this machine, we aimed to create the ideal combination of flexibility, capacity and durability. The M1100C series 2 offers superior engine performance and advanced, high-pressure, load-sensing hydraulics that ensure the excavation work is precise and quick. The machine is fitted with a computer-controlled instrument panel and a comfortable, well-equipped cab with a climate control system and a refrigeration compartment, all as standard. The modular undercarriage enables the machine to be configured to suit your needs, whether you only want a dozer blade or a dozer blade with stabilisers. Hydrema's strict quality requirements are here combined with intelligent technology, resulting in a modern design that meets the demands of the most efficient and demanding user.



Reliable and powerful

Life on building sites is often tough and demanding on the machinery. This has been taken account of in designing Hydrema's M1100C Series 2 excavators. They are bigger and stronger than mini-diggers and built according to the same high quality standards and aims as far larger mobile excavators.

Hydrema's M1100 series stands out as especially reliable and high-performing while still being compact and flexible. Its lift capacity of five tonnes is very impressive for its class. Whether you choose the M1100C Series 2 or the M1100C Series 2 Compact, you will get a compact machine developed with productivity and power in mind.



M1100C Compact SERIES 2

The M1100C Series 2 Compact has a very compact upper body, as the boom is mounted directly onto the upper body beside the cab. This results in a much more stable vehicle and greater output. Another important difference from other machines on the market is the specially adapted work hydraulics which ensures high digging capacity and exploitation of the machine's great stability. As one of the only machines on the market the M1100C Series 2 Compact is available without a swing console – the ideal compact excavator for heavy lifting and digging jobs.

Undercarriage with great stability and exceptional safety

The robust robot-welded undercarriage with its box profile ensures maximum torsion stiffness. The modular construction enables the machine to be confi

gured precisely to the needs of the user, with the dozer blade and stabilisers located at the front or rear respectively, depending on the user's requirements. The broad, independently adjustable stabilisers are of great benefit when handling heavy objects and ensure perfect levelling of the machine even in very uneven terrain, thus increasing safety, performance and comfort. The high clearance height, large wheels and completely enclosed disc brakes ensure good passability and maximum stopping power in all conditions. The self-levelling dozer blade helps ensure the best possible stability when excavating and carrying out lifting operations and is also ideal for clearing up at the end of the job. During transport, the two-speed powershift transmission ensures high speed or maximum tractive effort in all conditions. Gear changes are smooth under load, even when shifting between creep speed and transport gear, which makes manoeuvring a joy – even in the toughest conditions! The high engine performance means that there is always plenty of power available. There are two large lockable toolboxes situated between the wheel fairings.



Brand-new cab interior to meet the highest demands for comfort

Compact on the outside, spacious on the inside. A modern, roomy operator's cab suspended in vibration-damping mountings and with large areas of glass providing good all-round visibility. The climate-control system and refrigeration compartment under the seat are standard. The brand-new smooth-acting joystick with even more functions than before gives the operator easy and precise control of the machine and its functions – including operation of the dozer blade, stabilisers and other extra hydraulic functions. The joysticks are integrated into the soft-touch armrests mounted directly on the seat and follow the seat's and thereby also the operator's movements. The computer-controlled instrument panel and the well laid-out control elements make for comfortable and fluid work procedures. The computer warns the operator of any system failures, for example in the engine, and states whether the failure can be remedied by the operator or whether a service engineer needs to be called out. The computer also switches automatically between 'excavating operation' and 'driving operation'. The operator's seat and armrests are multi-adjustable and can be individually adapted to enable the most ergonomic working position – high comfort comes as standard!



Load-sensing hydraulics – precision work and high performance

An advanced, demand-controlled load-sensing hydraulic system ensures independent operation of all functions, as well as easy and precise manoeuvring. Along with the powerful engine, the load-sensing system ensures that demanding tasks are performed with ease. The hydraulic system's high oil volume and the excavator's great break-

out forces provide fast duty cycles as well as high precision and high performance. The hydraulic mode control allows the operator to switch between high and low speed at the touch of a button (optional). An advanced power-regulating system ensures that the hydraulic pump always operates with maximal pressure and flow.

M1100C2 : V 3,7, L2,2, A1 - ISO 10567 - bucket weight 250 kg

Reach, m	3			4			5			6			7			Max.		
	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL
6							1.7*	1.5	1.7*									
4							1.7	1.5	1.8*	1.2	1.0	1.7*						
2				2.3	1.9	3.1*	1.5	1.3	2.5*	1.1	0.9	2.0*	0.8	0.7	1.7*	0.7	0.6	1.6*
0	3.0	2.4	4.5*	1.9	1.5	4.1*	1.3	1.1	2.9*	1.0	0.8	2.2*	0.8	0.6	1.7*			
-2	3.0	2.5	4.7*	1.9	1.5	3.2*	1.3	1.1	2.3*	1.0	0.8	1.6*						
-3	2.9*	2.6	2.9*	2.0	1.6	2.1*	1.3*	1.2	1.3*									

M1100C2 : V 3,7, L2,2, A3 - ISO 10567 - bucket weight 250 kg

Reach, m	3			4			5			6			7			Max.		
	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL
6							1.7*	1.6	1.7*									
4							1.8*	1.6	1.8*	1.7*	1.1	1.7*						
2				3.1*	2.1	3.1*	2.5*	1.4	2.5*	2.0*	1.0	2.0*	1.6	0.8	1.7*	1.4	0.7	1.6*
0	4.5*	2.7	4.5*	3.6	1.7	4.1*	2.5	1.2	2.9*	1.9	0.9	2.2*	1.5	0.7	1.7*			
-2	4.7*	2.7	4.7*	3.2*	1.7	3.2*	2.3*	1.2	2.3*	1.6*	0.9	1.6*						
-3	2.9*	2.8	2.9*	2.1*	1.8	2.1*	1.3*	1.3*	1.3*									

M1100C2 Compact: V 3,7, L2,2, A1 - ISO 10567 - bucket weight 250 kg

Reach, m	3			4			5			6			Max.		
	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL
6				1.9*	1.9*	1.9*									
4				2.1*	2.1*	2.1*	1.9*	1.7	1.9*	1.4	1.2	1.8*			
2	3.7*	3.5	3.7*	2.5	2.2	2.9*	1.8	1.5	2.2*	1.3	1.1	1.9*	1.1	0.9	1.7*
0	3.6	3.0	4.6*	2.3	1.9	3.2*	1.6	1.4	2.4*	1.2	1.0	1.8*			
-2	3.4*	3.0	3.4*	2.3	1.9	2.5*	1.6	1.4	1.7*						
-3	2.6*	2.6*	2.6*												

M1100C2 Compact: V 3,7, L2,2, A3 - ISO 10567 - bucket weight 250 kg

Reach, m	3			4			5			6			Max.		
	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL	AQ	F	AL
6				1.9*	1.9*	1.9*									
4				2.1*	2.1*	2.1*	1.9*	1.8	1.9*	1.8*	1.3	1.8*			
2	3.7*	3.7*	3.7*	2.9*	2.4	2.9*	2.2*	1.6	2.2*	1.9*	1.2	1.9*	1.7*	1.0	1.7*
0	4.6	3.2	4.6*	3.2	2.1	3.2*	2.4*	1.5	2.4*	1.8*	1.1	1.8*			
-2	3.4*	3.2	3.4*	2.5	2.1	2.5*	1.7*	1.5	1.7*						
-3	2.6*	2.6*	2.6*												

AQ = stabilised laterally (360° swing range) - F = freestanding (without lateral stabilisation) (360° swing range) - AL = stabilised longitudinally (+/-30° swing range) - * = limited by the hydraulics

DIMENSIONS:

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Operating weight w. dozer blade * 11.5 t 11.0 t

Operating weight w. dozer bl. and stabil.* 12.2 t 11.7 t

A Width over tyres 2440 mm 2440 mm

B Track 1920 mm 1920 mm

C Wheelbase 2400 mm 2400 mm

D Cab height 3020 mm 3020 mm

E Shipping height 3770 mm 3990 mm

F Transport length, max. 5930 mm 5465 mm

G Overhang, front 3290 mm 2920 mm

H Slewing radius, rear 1500 mm 1500 mm

J Ground clearance, dozer blade 445 mm 445 mm

K Overhang, dozer blade 1133 mm 1133 mm

L Overhang, outriggers 1005 mm 1005 mm

EXCAVATOR:

Lifting capacity, excl. attachment 5000 kg 5000 kg

Lifting capacity, max. reach, A3/L1.8 * 1800 kg 2000 kg

Max. bucket size 0.40 m³ 0.50 m³

Maximum approach height 8300 mm 8350 mm

Reach, max. 8700 mm 7825 mm

Digging depth, max. 4800 mm 4625 mm

Bucket rotation angle 177 ° 177 °

BREAKOUT FORCE:

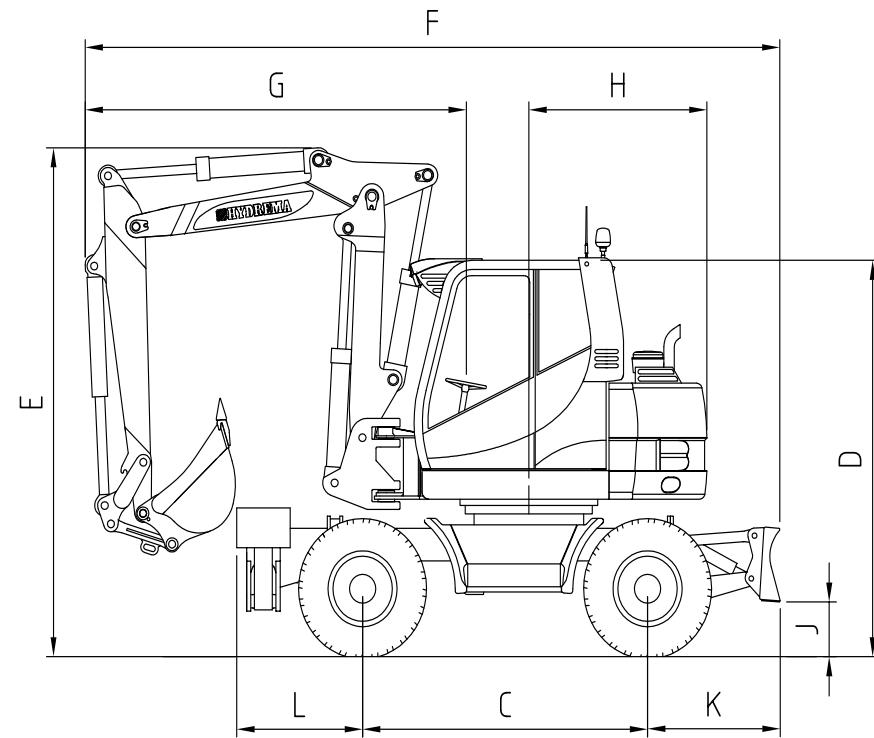
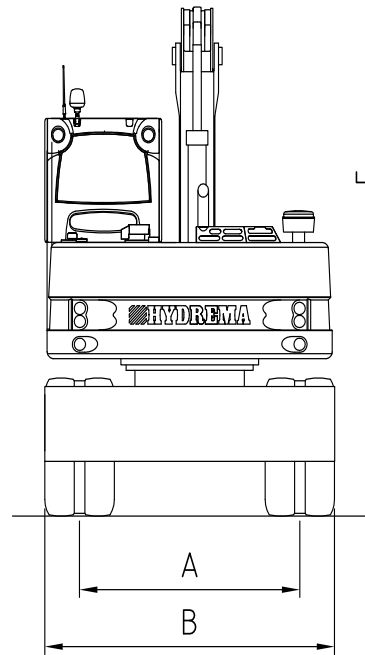
Break out force dipper, max. bucket size 58.0 kN 62.0 kN

Breakout force bucket, max. bucket size 68.0 kN 72.0 kN

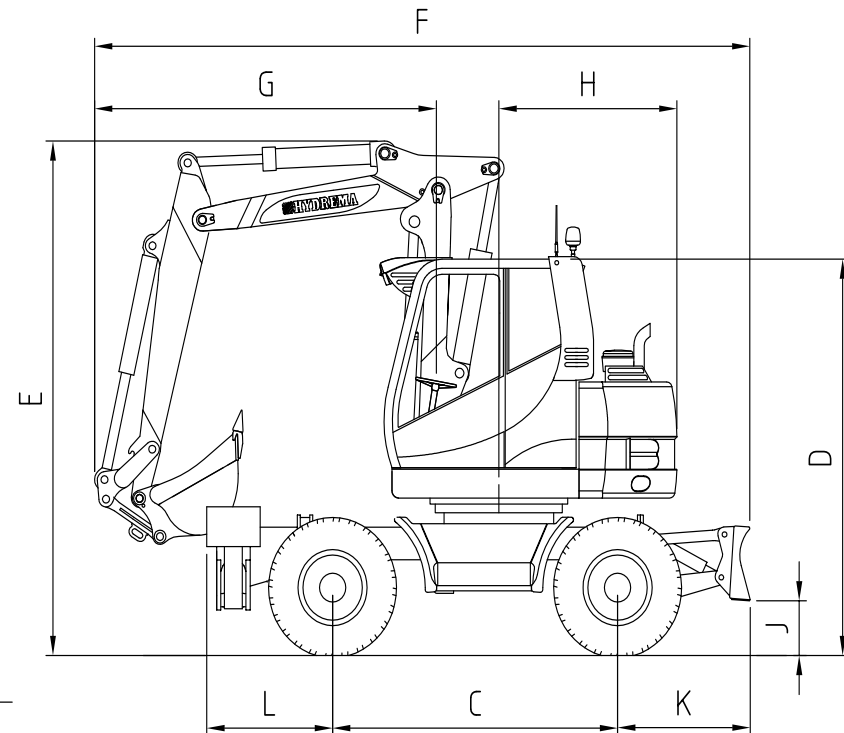
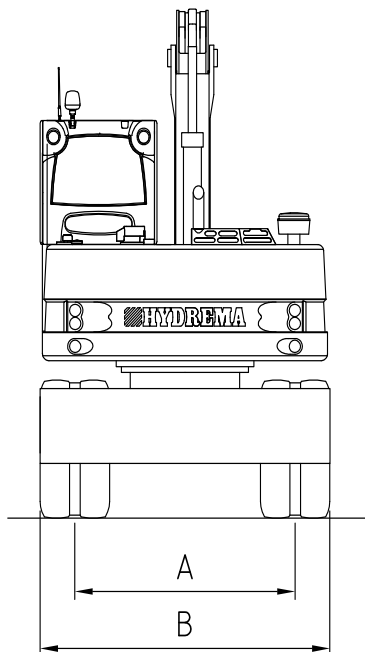
Outriggers, width 3320 mm 3320 mm

* incl. 250 kg bucket and 8 x 10.00-20 EM tyres

MIIOOC



MIIOOC compact



MI100C
series 2

MI100C compact
series 2

STANDARD EQUIPMENT:

- ◆ Two-piece boom V5.1
- ◆ 6 working lights (4 front, 2 rear)
- ◆ Computer-controlled instrument panel
- ◆ Automatic climate control with cooling box
- ◆ Heated seat with headrest
- ◆ Multi-adjustable armrests
- ◆ Ergonomic joystick with multi-function
- ◆ Adjustable steering wheel
- ◆ Radio with CD and MP3
- ◆ 12V and 24V sockets in the cab
- ◆ Large sun visor in front and rear
- ◆ 2-speed transmission with creep gear
- ◆ Axles with multiple disk brakes in the hubs
- ◆ Front axle with diff lock and pendulum lock
- ◆ Excavating brake
- ◆ Maintenance-free main and parking brake
- ◆ Automatic engine rpm boost via joystick
- ◆ Cruise control
- ◆ 4-speed electronic pre-selection of engine rpm
- ◆ Option hydraulics 200 l/min
- ◆ Beacon light
- ◆ Hose-burst valve on lifting cylinder
- ◆ Overload indicator



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OPTIONAL EQUIPMENT:

- ◆ Dipperarms: L1.8, L2.2, L2.6
- ◆ Tyres: 4 x 16-20
Twin tyres: 4 x 600/40-22.5
Dual tyres: 8 x 10-20 EM
- ◆ Undercarriage:
A1, dozer blade front or rear
A2, stabilizers, front or rear
A3, stabilisers rear, dozer blade front
A3, stabilisers front, dozer blade rear
2xA1, dozer blade front and rear
- ◆ Load-holding valves
- ◆ Hydraulic quick hitch
- ◆ Hydraulic circuit for quick hitch
- ◆ Return pipe for hydraulic hammer
- ◆ Separate hydraulic circuit (low output)
- ◆ Central lubrication point
- ◆ Automatic central lubrication system
- ◆ Air-suspension comfort seat
- ◆ Front grille
- ◆ FOPS cage
- ◆ Rear view mirror, right with electric heating and adjustment
- ◆ Bio oil
- ◆ Electric pump for filling of fuel
- ◆ Dozer blade with towing hook
- ◆ Engine heater
- ◆ 30 km/h transmission
- ◆ Transport bracket for grab



w w w . h y d r e m a . c o m