



M1620C
series 2
M1700C
series 2



HYDREMA





M1620C
series 2

When performance is paramount

The M1620C series 2 is a robust, powerful wheeled excavator. Developed with particular focus on ease of operation, high performance and precision – even in difficult conditions. The machine is available with a two-piece boom which is ideal for operation in confined spaces where flexibility is essential, or with the robust mono-boom. Its simple and strong construction makes the mono-boom specially suitable for tasks with hydraulic hammer, demolition etc. The mono-boom ensures highest performance and lifting capacity. The M1620C series 2 is suitable for traditionally heavy tasks such as loading trucks and major excavation.

M1700C
series 2

When others must give in

The upper carriage of M1700C series 2 is extremely compact. With a very small rear-end turning radius and unique kinematics on the two-piece boom, it can operate even in exceptionally confined conditions without compromising performance. No other excavator in its class has adapted the turning radius at both the front and rear, so that work can be carried out within a total working radius of 3.4 m. This makes the machine ideal for tasks such as road repairs where work is carried out on one lane whilst the other remains open. Although being very compact, this wheeled excavator boasts the performance of a 17-ton excavator. The M1700C series 2 is the ideal city machine – compact, powerful and quick.



Under carriage with great stability and high safety level

The robot-welded, sturdy under carriage in box profile ensures a maximum of torsional stability. The modular design offers the possibility to attach dozer blade and stabilisers front or rear.

The broad, individually adjustable stabilisers are a great advantage when handling heavy loads, ensuring perfect levelling of the machine, increasing safety and performance. The large clearance height, the large wheels and the immersed disc brakes ensures good passage and max. brake performance in all conditions. The digger-brake activates the brake in all 4 hubs and keeps the machine rock solid whilst excavating. The self-

levelling dozer blade ensures the best stability when excavating or lifting and is ideal for clearing up after.

During transport the hydrostatic drive with 2-step power shift transmission ensures high speed or max. tractive force in all conditions. Easy gear-shift under load, also when shifting between creep- and transport gear.

A large, lockable tool box is integrated between the wheel fairings on both sides of the machine.

Load Sensing – precision and high performance

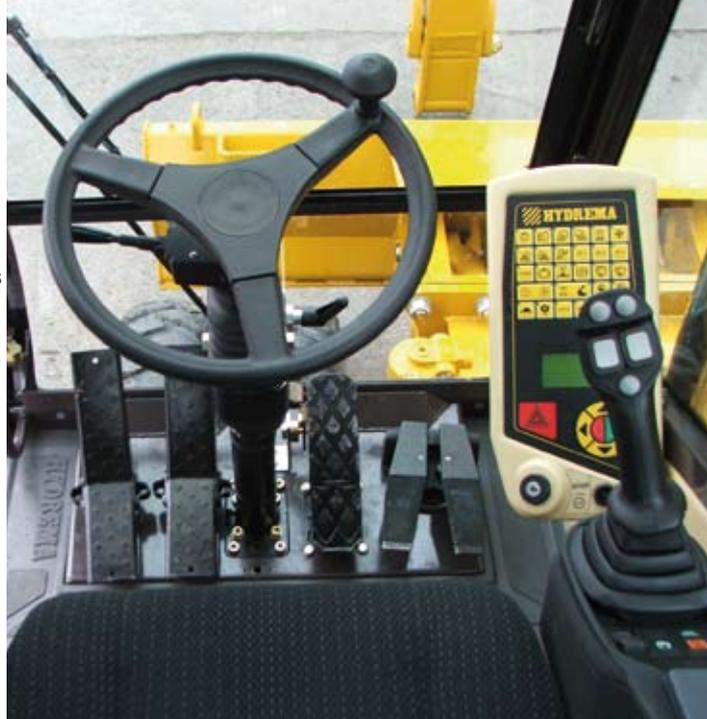
An advanced demand-controlled hydraulic Load Sensing system guarantees an independent control of all functions and uncomplicated, precise manoeuvring. A separate pump ensures a 100% independent swing function. Together with the powerful engine the Load Sensing system assures that demanding work is performed with effortless ease. A huge supply of hydraulic oil and large break-out forces result in fast duty cycles and high productivity, along with high precision and performance.

The hydraulic mode control ensures that movements can be switched from high to low speed at the touch of a button and an advanced power control system makes the engine always run at optimal engine rpm.



Cab with new interior for high comfort

Compact outside and spacious inside. A modern, spacious operator's cab suspended in vibration-damped mountings with large glass areas all around. AC and ice box under the seat as standard. New and improved, smooth joysticks with even more integrated functions - enables the operator to easy and precise operation, including control of dozer blade, stabilisers and optional hydraulic functions.



The joysticks are integrated into the soft-touch armrest which again are directly integrated into the seat - consequently the movements follows the operator. The layout of the computer-controlled

instrument panel and the control elements contributes to comfortable and ease of operation.

The computer alerts the operator about possible system faults, eg. on the engine, and if the fault

can be remedied by the operator or authorised service is needed. The computer switches automatically between "digger-" and "transport" mode. The armrests and operator seat are multi adjustable to accommodate optimum ergonomic conditions for the operator - high comfort is standard.

Quiet and powerful

Convincing engine performance with plenty of torque.

The machines in Hydrema's C series 2 range are equipped with a Perkins stage 3a common rail engine that produces 96 kW/131 hp. Despite developing plenty of power, the engine is characterised by its quietness. The impressive amount of torque means that work can be carried out even at low revs, which in turn reduces fuel consumption and noise levels considerably.

On the computer display 4 modes of operation can be chosen whereby the engine revs are electronically regulated depending on the task in question, thus ensuring that the engine always performs in the optimum manner. The automatic idling system reduces noise and fuel consumption.

M1620C series 2: V5.3, L2.5, A1

Reach m. Lifting height 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	
8	5.8*	5.8*	5.8*	5.1*	4.7	5.1*													
6	5.2*	5.2*	5.2*	5.1*	4.8	5.1*	3.6	3.2	4.2*	2.6	2.3	3.6*							
4	7.7*	6.9	7.7*	4.9	4.3	5.8*	3.4	3.0	4.6*	2.4	2.2	3.8*	1.8	1.6	3.2				
2	6.6	5.7	9.2*	4.1	3.6	7.8*	2.9	2.6	5.4*	2.2	1.9	4.2*	1.7	1.5	3.4*	1.3	1.1	2.8	
0	5.1*	4.8	5.1*	3.7	2.6	7.0	2.6	2.3	6.0	2.0	1.7	4.4	1.6	1.4	3.5				
-2	5.8	4.9	7.0	3.6	3.1	7.6*	2.6	2.2	4.9*	2.0	1.7	3.9*	1.6	1.3	2.9*				
-4	6.3	5.4	7.8*	4.0	3.5	5.8*													

M1620C series 2: V5.3, L2.5, A3

8	5.8*	5.8*	5.8*	5.1*	5.0	5.1*													
6	5.2*	5.2*	5.2*	5.1*	5.1	5.1*	4.2*	3.5	4.2*	3.6*	2.5	3.6*							
4	7.7*	7.4	7.7*	5.8*	4.6	5.8*	4.6*	3.2	4.6*	3.8*	2.3	3.8*	2.9	1.3	3.2				
2	9.2*	6.1	9.2*	6.8	3.9	7.8*	4.8	2.8	5.4*	3.6	2.1	4.2*	2.8	1.6	3.4*	2.2	1.2	2.9*	
0	5.1*	5.1*	5.1*	6.3	3.4	7.6*	4.4	2.5	6.0*	3.4	1.9	4.8*	2.7	1.4	3.8*				
-2	7.0*	5.4	7.0*	5.9*	3.4	5.9*	4.4	2.4	4.9*	3.3	1.9	3.9*	2.7	1.5	2.9*				
-4	7.8*	5.9	7.8*	5.8*	3.8	5.8*													

M1700C series 2: V5.3, L2.5, A1

Reach m. Lifting height 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	
8	5.8*	5.8*	5.8*	5.1*	4.8	5.1*													
6	5.2*	5.2*	5.2*	5.1*	4.8	5.1*	3.7	3.3	4.2*	2.6	2.3	3.6*							
4	7.7*	7.0	7.7*	4.9	4.4	5.8*	3.4	3.0	4.6*	2.5	2.2	3.8*	1.9	1.6	3.2*				
2	6.7	5.7	9.2*	4.2	3.6	7.8*	3.0	2.6	5.4*	2.3	2.0	4.2*	1.7	1.5	3.4*	1.3	1.1	2.9*	
0	5.1*	4.9	5.1*	3.7	3.2	7.6	2.7	2.3	6.0*	2.1	1.8	4.7	1.6	1.4	3.7				
-2	5.9	5.0	7.0*	3.7	3.1	5.9*	2.6	2.2	4.9*	2.0	1.7	3.9*	1.6	1.4	2.9*				
-3	6.1	5.2	7.8*	3.8	3.2	4.6*	2.7	2.3	3.8*	2.1	1.8	2.9*							

M1700C series 2: V5.3, L2.5, A3

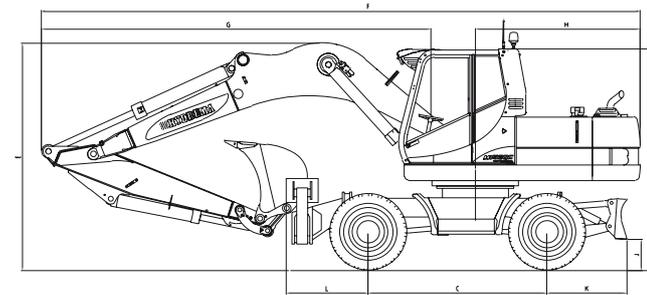
8	5.8*	5.8*	5.8*	5.1*	5.1*	5.1*													
6	5.2*	5.2*	5.2*	5.1*	5.1*	5.1*	4.2*	3.5	4.2*	3.6*	2.5	3.6*							
4	7.7*	7.4	7.7*	5.8*	4.7	5.8*	4.6*	3.2	4.6*	3.8*	2.4	3.8*	3.1	1.8	3.2*				
2	9.2*	6.2	9.2*	7.0	3.9	7.8*	5.0	2.8	5.4*	3.7	2.1	4.2*	2.9	1.6	3.4*	2.3	1.2	2.9*	
0	5.1*	5.1*	5.1*	6.5	3.5	7.6*	4.6	2.5	6.0*	3.5	1.9	4.8*	2.8	1.5	3.8*				
-2	7.0*	5.4	7.0*	5.9*	3.5	5.9*	4.6	2.5	4.9*	3.5	1.9	3.9*	2.8	1.5	2.9*				
-4	7.8*	5.6	7.8*	4.6*	3.5	4.6*	3.8*	2.5	3.8*	2.9*	1.9	2.9*							

DIMENSIONS:

		MIG20C series 2				MIG20C series 2				M1700C series 2		
		Mono boom				2-piece boom				2-piece boom		
		L2.0	L2.5	L3.0	L3.5	L2.0	L2.5	L3.0	L3.5	L2.0	L2.5	L3.0
Overall weight w. dozer bl.	t.	15,3	15,3	15,4	15,4	15,3	15,3	15,4	15,4	17,0	17,0	17,1
Overall weight w. dozer bl. + stab	t.	16,6	16,6	16,7	16,7	16,6	16,6	16,7	16,7	18,3	18,3	18,4
A Width over tyres	mm.	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
B Track	mm.	1915	1915	1915	1915	1915	1915	1915	1915	1915	1915	1915
C Wheelbase	mm.	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
D Passage height, cab	mm.	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080
E Transport height	mm.	3990	3990	3990	3990	3990	3990	3990	3990	3990	3990	3990
F Road transport length	mm.	8360	8360	8360	8360	6180	6180	6180	6180	5960	5960	5960
G Overhang, front	mm.	5450	5450	5450	5450	3230	3230	3230	3230	3230	3230	3230
H Turning radius, rear	mm.	2300	2300	2300	2300	2300	2300	2300	2300	1690	1690	1690
I Turning radius, front	mm.					1600	1870	2140	2410	1600	1870	2140
J Clearance height, dozer blade	mm.	490	490	490	490	490	490	490	490	490	490	490
K Overhang, dozer blade	mm.	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120
L Overhang, stabilisers	mm.	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060
EXCAVATOR:												
Lifting capacity, max.	kg.	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
Bucket size, max.	m ³	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90
Reach, max.	mm.	8250	8700	9150	9600	8500	9000	9500	10000	8500	9000	9500
Excavating depth, max.	mm.	4900	5400	5900	6400	4900	5400	5900	6400	4900	5400	5900
Bucket rotation angle	°	175	175	175	175	175	175	175	175	175	175	175
BREAK-OUT FORCE:												
Excavating cyl., max. buck. size	102 kN	102	82	68	58	102	82	68	58	102	82	68
Bucket cyl., max. buck. size	kN	115	115	115	115	115	115	115	115	115	115	115
Stabilisers, support width	mm.	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830

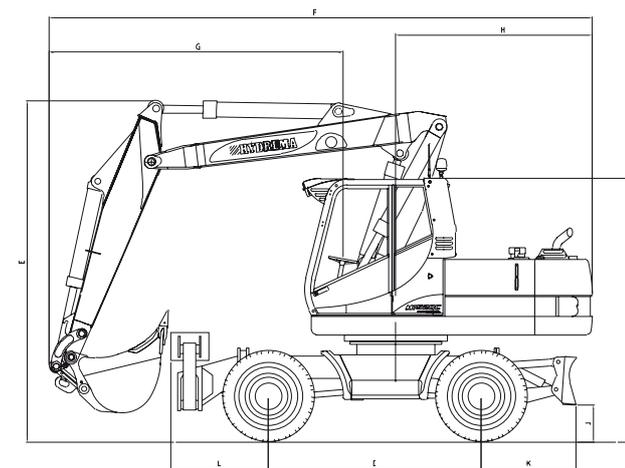
MIG20C
series 2

Mono boom



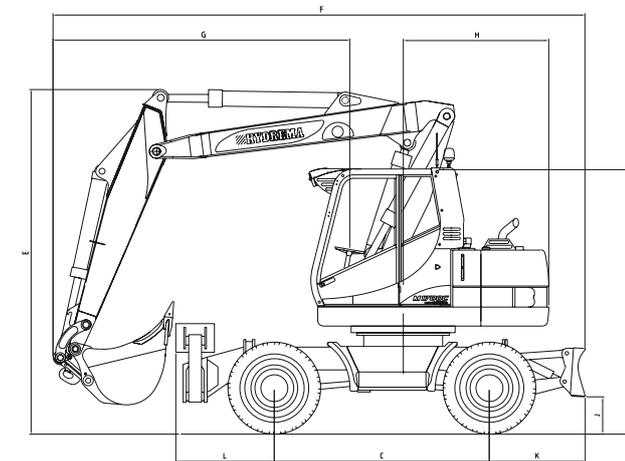
MIG20C
series 2

2-piece boom

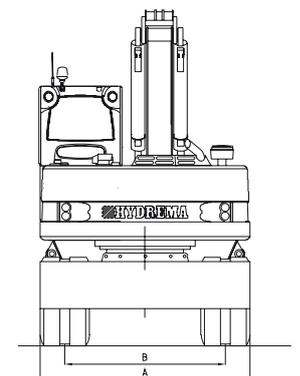


M1700C
series 2

2-piece boom



MIG20C
series 2
M1700C
series 2



TECHNICAL DATA:

Hydraulic system:

Dual-circuit system, independent slew function, separate pump. Working hydraulics with variable pump, load sensing, pressure cut-off, cumulative power control and flow sharing. Large oil quantity and perfect flow distribution – regardless of load and rpm. Joysticks under hydraulic servo control and with soft-touch switches.

Oil quantity working hydraulics/slew 260+90 l/min
Working pressure.....340 bar
Steering pump.....22 l/min
Optional hydraulics..... 60-200 l/min
Working pressure..... 120-280 bar
Hydraulic accumulator..... 180 l

System with combined electro-hydraulic mode control. Choice of 4 electronic and 2 hydraulic modes for optimum excavating speed.

Transmission:

Hydrostatic drive, variable motor with main brake valve. Permanent 4-wheel drive. 2-speed powershift gearbox for transport/off-road gear. Power regulated hydrostatic load-sensing drive system with large variable drive motor.

Max. tractive force: 95 kN

	Standard	Option	
Transport gear	0-20	0-33	kmh
Off-road gear	0-12	0-12	kmh
Transport + creep gear	0-11.5	0-11.5	kmh
Off-road + creep gear.....	0-3.1	0-3.1	kmh

Axles:

With planet gear in all wheel hubs. Front axle with pendular suspension and pendulum lock.

Oscillating angle: ±8 °

Brakes:

Hydraulic dual-circuit brake system. Maintenance-free oil immersed multiple disk brake lockable when excavating. Parking brake via gearbox, acting on all wheels.

Slew:

Spherical bearing with internal gears and longterm lubrication. 9 revs/min. Slew torque 48 kNm

Steering:

Hydrostatic steering with emergency steering.

Electric system:

24V with central electronics for controlling all electrical functions. Computer-controlled instrument panel with central monitoring of important machine functions, storage of service data, hire menu and soft-touch control of all functions. Electronic mode control. 2 x 88 A battery capacity. 70A (1680W) alternator. 6 work lights.

Instrument panel:

Electronic control panel with foil keyboard. Functions of computer-controlled instrument panel: automatic monitoring of the important machine functions with alarm. Storage of machine data about service and machine hire. Control of excavation unit.

Engine:

Perkins 1104D-44TA stage 3a. Turbo diesel engine 4.4 l. 16 valves and common rail injection. Air/air intercooler. 96 kW/131 hp at 2200 rpm. Max. torque 516 Nm at 1400 rpm. Latest engine technology acc. to EEC stage 2 requirements for exhaust emission.

Cabin:

Spacious cab, windscreen to open, sliding window in the door, skylight, adjustable steering wheel, comfort seat with vibration-damped comfort seat, multi-adjustable armrest, automatic air conditioning with ice box under the seat, radio, CD and Mp3, Extensive noise insulation of cab and engine compartment.

Excavator:

Two-piece boom: V5.3 (M1620C series 2 and M1700C series 2)
Mono-boom: V5.1 (M1620C series 2)

Noise level:

EU standard: 2000/14 EC

LwA (exterior): 99 dB(A), LpA (cab): 75 dB(A)



Hydrema's two biggest wheeled excavators are robust and stable with plenty of power for tasks in which high excavating performance and versatility are a "must". They are both equipped with computer-controlled instrument panel, advanced load sensing hydraulics, modular under carriage and a well equipped, comfortable cabin with AC as standard. Hydrema's strict quality requirements in combination with high technology development results in modern excavators that meets the demands of the efficient and demanding user.

M1620C *series 2*

M1700C *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:

- ◆ Dipper lengths: L2.0, L2.5, L3.0
- ◆ Dual tyres: 8 x 10.00-20 EM
- ◆ TWEEN tyres: 4 x 600/40-22.5 or 4 x 700/40-22.5
- ◆ A1 dozer blade front or rear
- ◆ A2 stabilizers front or rear
- ◆ A3 stabilizers rear/front, dozer blade front/rear
- ◆ Load-holding valves
- ◆ Hydraulic quick hitch
- ◆ Pressureless return for hydraulic hammer
- ◆ Separate hydraulic circuit (42 l/min)
- ◆ Central lubrication point
- ◆ Automatic central lubrication system
- ◆ Mirror rhs electrically adjustable
- ◆ Air-suspension comfort seat
- ◆ Front grille
- ◆ FOPS cage
- ◆ Bio oil
- ◆ Refueling pump
- ◆ Dozer blade with towing hook
- ◆ Engine heater
- ◆ 30 km/h transmission
- ◆ Transport bracket for grab



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