

# Hydrema MX20 RAIL.

**TIER 4**



Specially designed compact excavator in the 20t class for railway work with focus on great stability, high performance and flexibility.

## Key features

- Highest hydraulic flow in its class
- Powerful 167 hp Cummins Stage 4 engine with DOC and SCR catalyst
- Most compact machine in the 20t class
- Hydrema rail system with both low and high rail capability.

**A/S Hydrema Export**  
Gl. Kirkevej 16  
DK-9530 Støvring

Phone: +45 98 37 13 33  
hydrema@hydrema.com  
www.hydrema.com

 **HYDREMA**



# Technical data.

## Excavator

Compact excavator with two-piece boom for all models. Build in high tensile steel with closed profiles in lengths 2.0 m, 2.5 m. Hydraulic quick hitch and tilt rotator as options. Tilt rotator operation is integrated in the joystick.

## Hydraulic system

Dual-circuit system with Load Sensing and high pressure hydrostatic swing system with separate pump. Electronic power control of the working hydraulics pump. Mode Control for precision work and ECO-Mode for saving fuel. Up to 3 hydraulic options freely adjustable from the cab. Option 3: Oil flow priority. Freely adjustable pressure and oil quantity for up to 10 tools.

## Oil quantities

Working hydraulics:	319	l/Min
Swing hydraulics:	88	l/Min
Hydraulic option 1 ZV1:	0-200	l/Min
Hydraulic option 2 ZV2:	0-100	l/Min
Hydraulic option 3 ZV3:	50-200	l/Min

## Engine

Cummins QSB 4.5L Stage 4 engine with DOC and SCR catalyst with AdBlue. 16 valve Common-Rail Turbo diesel with inter-cooler, electronically variable turbo charger and EGR with cooling. Max power: 167 hp (123 kW) at 2000 rpm. Max. torque: 678 Nm at 1500 rpm. Fuel tank 300 L. AdBlue-tank: 19 L.

## Driving hydraulics

Constant 4 wheel hydrostatic drive. Variable drive motor with brake valve. 2-speed soft shift powershift transmission for on-road and off-road gears.

## Rail system

Hydrema Rail System. MX20 Rail is capable of working in two categories:

### High rail

Driveline and brakes work indirectly from tires (pull wheels) to rail wheels. Using 'high rail' the machine is lifted more than 100 mm above the tracks which ensures no conflicts with sensors and track switches. Operating in high rail mode provides maximum stability. Parking brake acts directly on the rail wheels.

### Low rail

Rubber wheels runs directly on the tracks with traction and brakes acting directly from wheels to the tracks. Operating in low rail mode offers maximum tractive effort. Rail wheels runs with constant pressure control and suspension to achieve very high safety and to avoid derailing. Being partly on rubber wheels provides comfortable driving.

## Standard equipment - Rail system

Under carriage with high & low Rail System  
Special Rail-Keypad for undercarriage in left hand armrest  
Electronic monitoring/alarm - high & low rail  
Visual control of rail wheel pressure on rails  
Rail wheels- diameter: 650 mm  
Fixed BM-hitch, rear  
Electronic Prolec height and slew system (RCI option)  
Hydraulic emergency operation  
Mechanic lock on steering wheel when driving in rail mode  
Parking brake for rail wheels, front / rear  
Extra hydraulic oil circuit, rear - (50 L)  
7-pole socket for trailer, rear  
2 cameras (counter weight and right side)  
Coupling for trailer, front / rear  
Warning triangle on counter weight  
Air brake system for trailer (option)

## Specifications

		L 2.0	L 2.5
Machine weight	ton	20,30	20,35
Width over std. tires, 10.00-20	mm	2580	2580
Wheelbase (rubber wheels)	mm	2600	2600
Clearance height, cabin (in terrain)	mm	3120	3120
Clearance height, cabin (on rails)	mm	3220	3220
Transport height (rail work)	mm	4100	4100
Distance, pivot center to counter weight	mm	1700	1700
Swing radius, rear	mm	1839	1839
Swing radius, front	mm	1650	1990
Reach, max.	mm	8820	9320
Ground clearance (rail work)	mm	100	100
Lifting capacity, max.	kg	12000	11500



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