



**926D**

**928D**



**HYUNDAI**





# **926D**

# **928D**

**The new 926D and 928D are the latest flagship Loader Excavators in the Hydrema range. These 10 tonne articulated machines offer the very best in performance, stability, comfort design and productivity. Our focus when designing and building Hydrema machines is to make the best quality product we can from the smallest detail upwards. Our customers demand the best machines and it is our endeavour to make sure they get what they want.**

## **Centre Pivot and roadholding qualities**

The key to the excellent on and off road performance of the 912D lies in the articulated pivot steer chassis. The centre pivot and hydraulic stabilisers keep the machine stable and safe by automatically transferring the weight where it is needed. The chassis ensures that all wheels constantly track to reduce ground contact and the centrally placed pivot increases manoeuvrability with a low turning radius and better positioning characteristics. The addition of a new cruise control makes for more comfortable road usage

## **Engine**

The machines are equipped with a Perkins stage 3a common rail engine. The D-series engine power has been increased and the torque has been significantly improved by almost 20%. This means a higher peak performance, but also higher power at lower rpm which reduces noise levels and keeps fuel consumption down. The noise levels are very important, especially when working in built up areas and the focus on fuel saving is always a priority when considering the productivity and economy of buying a new machine.

## **Intelligent transmission**

The 926 & 928 are fitted with the latest well proven 6 speed ZF soft shift transmission. Offering full auto or manual mode this intelligent transmission will automatically shift 2 gears in the right conditions to smoothly increase acceleration regardless of the conditions.

## **Excavator**

The boom and dipper are constructed as closed profiles in high tensile steel that provides maximum strength and stiffness. Heavy-duty sleeve bearings at all the joints featuring Hydrema's well-known double sealing system to ensure long life and low operating costs.

The curved design enables easy loading over the side of a truck, and gives greater flexibility when working close to the machine. The excavator can also be fitted with a telescopic arm, which increases the reach and excavating depth by 1.2 m. This also means longer working intervals from the same position.

The excavator's Mode Control makes it possible for the operator to adapt the speed of the hydraulic to the task in question. E.g. very low speed ensures maximum safety at lifting tasks.

## **Loader**

The Hydrema 926 and 928D are full articulated loading shovels. Constructed from high tensile steel and with a high torque engine and automatic flexible transmission the D series are outstanding Loaders. Equipped with auto self levelling, Z-kinematics and a return to dig function the shovel is easy to fill and offers exceptional break out force. The load stabilizer and upgraded ESD servo control system ensures smooth efficient operation of the shovel while the double command feature gives the operator all the flexibility needed for an efficient days work. The D series loaders have the same performance, breakout force and lifting capacity as a typical 1.6m<sup>3</sup> loader but with the benefit of an additional rear mounted excavator.

## **Optimum operator comfort**

The D series is fitted with a newly designed spacious cab which improves visibility and comfort. The operator now has an electrical steering column which automatically moves when the operator goes from a driving to a digging position and back again. The sound level in the cab has been significantly reduced to 68DbA which is the lowest to be found on any Loader Excavator.

After studying the working situation and posture of the operator we have produced our most modern cab to date. All the instrumentation is ergonomically placed, the seat and arm rests are fully adjustable and the cab is lined with a new soft touch interior. Visibility has been improved by increasing the glazed area and a new a/c system is incorporated as standard with 8 air nozzles placed throughout the cab. Overall vibration has been reduced by mounting liquid filled engine suspension points and the Hydrema 4 point cab suspension system. The cab is also fitted with automatic entry and exit lighting for safer night time operation.

## **User friendly computer**

The Hydrema 926/928 have a Windows based instrument display which provides the operator with a wealth of information via a 6.4" flat-screen PC monitor. The computer has data collection, rental menu and diagnostic tools installed. The menu is very user friendly, even for inexperienced operators and it is possible to update the software and download data from the machine via a USB socket.

## **New joysticks**

The all new armrests with integrated joysticks have four proportional functions built-in which make operation of tools absolutely precise and unique. This is especially useful when using hydraulic attachments such as a rotor tilt where precise control is of the utmost importance to productivity. The armrests are also multi-adjustable so they can be adapted to suit the individual operator.



## **926D 280° operating area**

The 926 excavator is fitted with hydraulic sideshift which provides a working area of 280°. This gives a larger working radius and greater flexibility for digging and loading in normal or restricted working conditions.

## **928D 200-250° operating area**

The 928 excavator is centre mounted with an operating area of 200°. If fitted with an offset dipper the working area can be increased up to 250°.

## **Dynamic design**

A lot of time and effort has gone into the design of the 926-928 to keep them ahead of the market in terms of quality and function. Industrial designers have been employed to attend to every detail from the eight working lights to the built in tool boxes and soft touch interior. The operator has a superb working environment with easy to understand controls, heated seating, electrical adjustable side mirrors and the best performance available on the market.

Companies that invest in a Hydrema send a message to their customers that they use top quality equipment.



## DIMENSIONS:

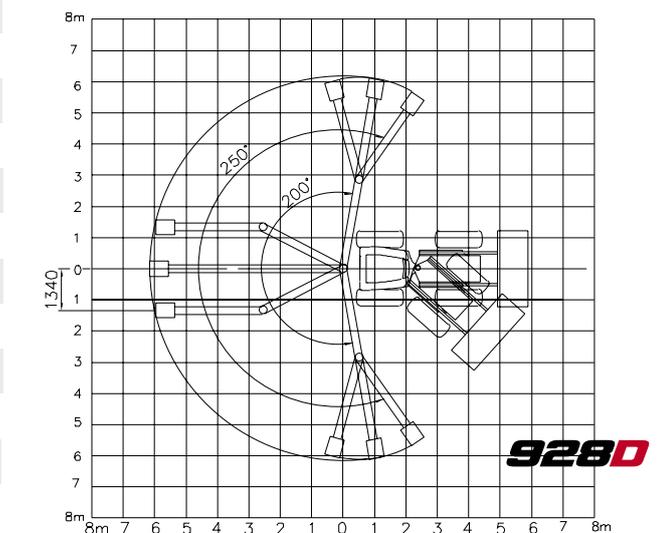
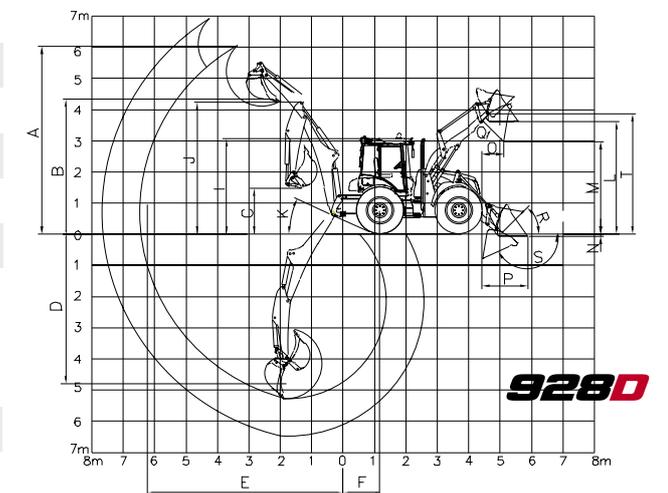
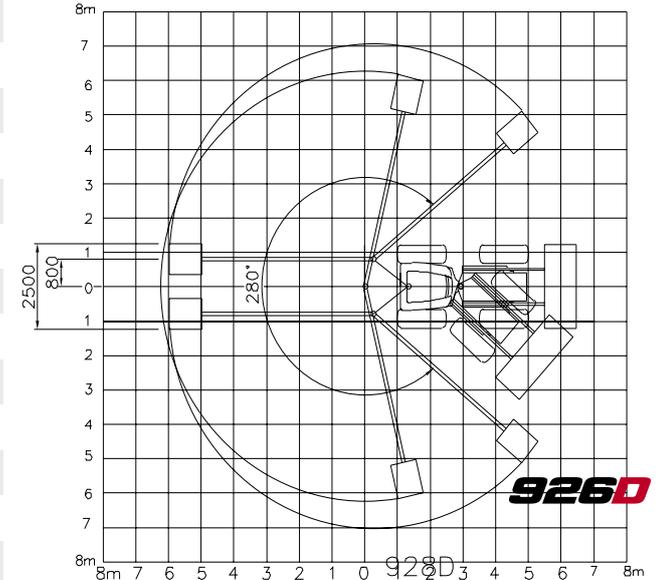
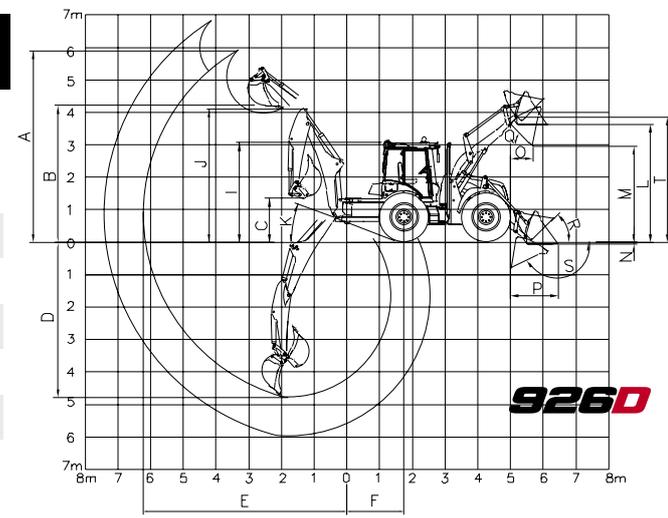
		<b>926D</b>	<b>926D</b> Telescopic	<b>928D</b>	<b>928D</b> Telescopic	<b>928D</b> Side-ang	<b>928D</b> Telesc. + side-ang.
Total weight	kg	9,400	9,600	9,400	9,600	9,400-10,500	9,400-10,500
Width over std. tyres	mm	2,310	2,310	2,310	2,310	2,310	2,310
Track std. tyres	mm	1,810	1,810	1,810	1,810	1,810	1,810
Wheel base	mm	2,535	2,535	2,535	2,535	2,535	2,535
Turning radius - outer shovel corner	m	5.7	5.7	5.7	5.7	5.7	5.7

## EXCAVATOR:

Bucket size, max. (ISO 7451)	m <sup>3</sup>	0.43	0.43	0.43	0.43	0.43	0.43
Slew angle	°	280	280	200	200	200+2x25	200+2x25
<b>A</b> Approach height, max	mm	5,940	6,020/6,820	6,110	6,180/6,980	6,110	6,180/6,980
<b>B</b> Lifting height - level base of bucket	mm	4,100	4,180/4,980	4,260	4,330/5,140	4,260	4,330/5,140
<b>C</b> Bucket clearance	mm	1,190	1,190	1,350	1,350	1,350	1,350
<b>D</b> Excavating depth	mm	4,750	4,750/5,950	5,330	5,340/6,540	5,330	5,340/6,540
<b>E</b> Reach	mm	6,250	6,280/7,420	6,500	6,530/7,670	6,500	6,530/7,670
<b>F</b> Distance - centre pivot to rear axle	mm	1,725	1,725	1,155	1,155	1,155	1,155
<b>G</b> Bucket rotation	°	190	190	190	190	190	190
<b>H</b> Ground clearance	mm	460	460	460	460	460	460
<b>I</b> Clearance height	mm	3,090	3,090	3,090	3,090	3,090	3,090
<b>J</b> Transport height	mm	4,000	4,000	4,000	4,000	4,000	4,000
<b>K</b> Angle of departure	°	20	20	24	24	24	24
Sideshift	mm	1,600	1,600	-	-	-	-
Breakout force excav. cyl. - max. bucket ISO 6015	kN	36	36	36	36	36	36
Breakout force shovel cyl. - max. shovel ISO 6015	kN	55	55	55	55	55	55
Slewing torque	kNm	20	20	22,6	22,6	22,6	22,6
Lifting capacity - max. reach excl. appliances	kg	1,450	1,250/950	1,700	1,500/1,160	1,700Kg	1,450/1,100
Stabilisers - supporting width	mm	3,660	3,660	3,880	3,880	3,880	3,880
Stabilisers - max. alignment angle	°	11.5	11.5	11.5	11.5	11.5	11.5

## LOADER:

Volume standard shovel	m <sup>3</sup>	1.6	1.6	1.6	1.6	1.6	1.6
<b>L</b> Lifting height - horizontal shovel	mm	3,525	3,525	3,525	3,525	3,525	3,525
<b>M</b> Clearance height - tipped shovel	mm	2,845	2,845	2,845	2,845	2,845	2,845
<b>N</b> Excavating depth - horizontal shovel	mm	150	150	150	150	150	150
<b>O</b> Reach - tipped shovel	mm	740	740	740	740	740	740
<b>P</b> Reach - at ground level	mm	1,510	1,510	1,510	1,510	1,510	1,510
<b>Q</b> Emptying angle - max. height	°	45	45	45	45	45	45
<b>R</b> Back-tip angle - ground level	°	45	45	45	45	45	45
<b>S</b> Dumping angle - ground level	°	100	100	100	100	100	100
<b>T</b> Height, shovel pivot	mm	3,750	3,750	3,750	3,750	3,750	3,750
Lifting capacity - max. height excl. appliances	kg	4,700	4,700	4,700	4,700	4,700	4,700
Breakout force - 1.6 m <sup>3</sup> shovel, ISO 8313	kN	73	73	73	73	73	73
Width standard shovel	mm	2,450	2,450	2,450	2,450	2,450	2,450



## TECHNICAL DATA:

### Chassis:

Articulated chassis in heavy-duty construction with fixed axles. Centre pivot with pendulum bar and double hydraulic stabilisers with the option of hydraulic locking of the oscillating movement. The centre pivot is fitted with large spherical pivot bearings.

Oscillation.....24°

### Steering:

Hydrostatic steering with Load Sensing hydraulics and two double-acting cylinders. Priority valve and integrated emergency steering. Steering cylinders with end damping.

Max. steering angle.....± 35°

### Axles:

Fixed, rigid axles with planetary hub reduction. Automatic limited slip differential lock on front axle. 100% electro-hydraulic differential lock on rear axle. Separate oil chambers for differentials and hubs.

### Transmission:

ZF WG115, 6-speed, fully-automatic »ERGO-POWER« Soft-Shift transmission with 100% electronic control. Electronically controlled pressure on each clutch ensures completely smooth gearshift without any loss of tractive effort. 6 forward 3 reverse gears. Permanent 4-wheel drive.

### Brakes:

Twin circuit hydraulic servo system with oil-immersed disc brakes on each wheel. Self-adjusting and maintenance-free. Maintenance-free »FAIL-SAFE« parking brake with electro-hydraulic activation of the wet disc brakes on the front axle.

### Hydraulic system:

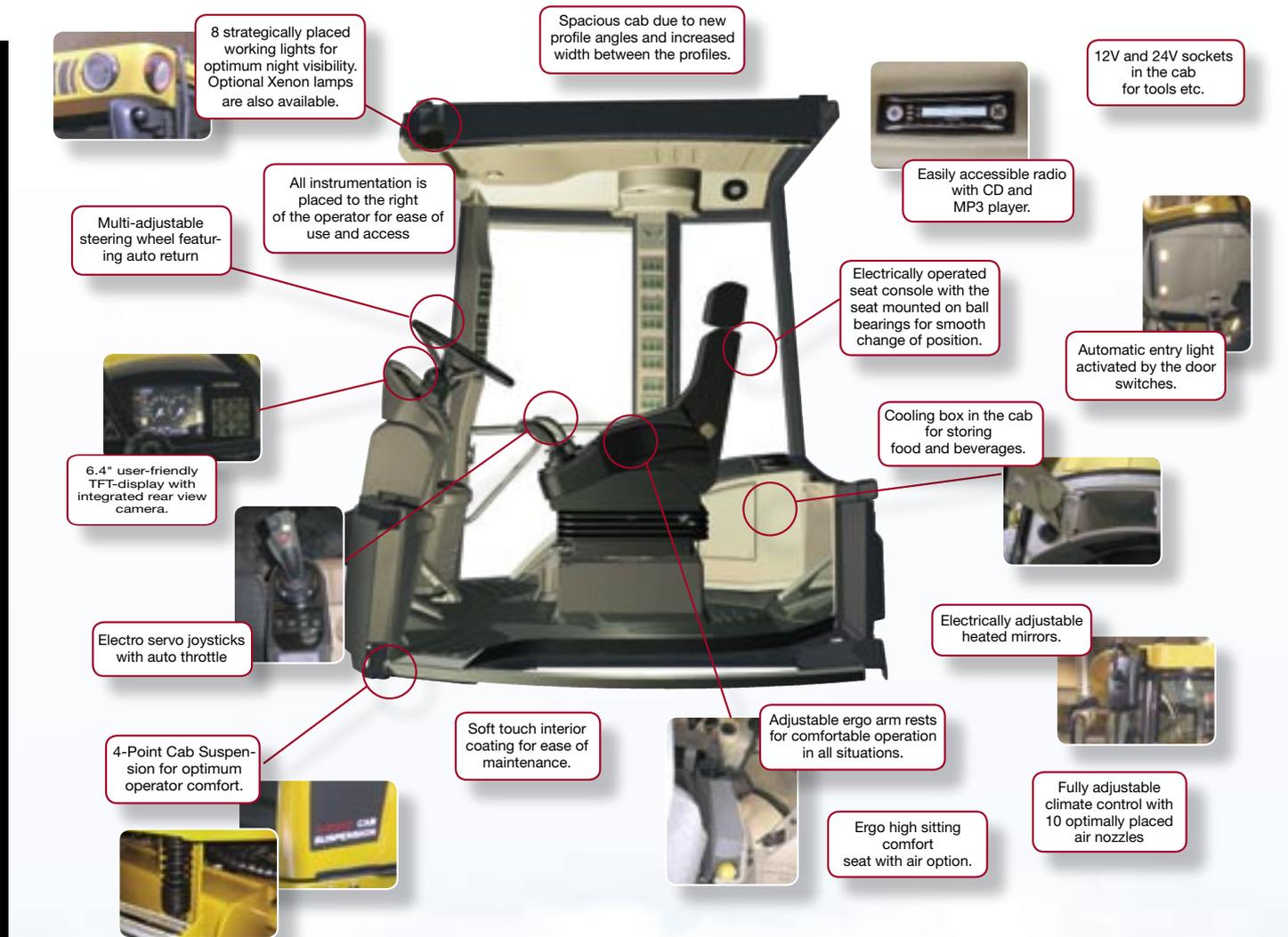
Compensated »Load Sensing« system with 270 l/min at 2000 rpm. Hydraulic pressure: 230 bar. Twin circuit double pump system with powerful axial piston pump and a separate pump for the excavator's slewing function. Load Sensing and power regulation for high performance at very low engine revs and low fuel consumption. Electric servo, double command and Electronic Mode Control as standard.

### Engine:

Perkins 1104D-E44TA stage 3a engine. 4.4 l turbo-diesel engine with air/air intercooler, 16 valves and commonrail injection. 96 kW/131 HP at 2200 rpm. Max. torque: 516 Nm at 1400 rpm. Latest engine technology that meets EEC stage 3a requirements for exhaust emission. 180 l fuel tank integrated in the front chassis.

### Noise level:

LwA: (exterior) 103 dB (A) 2000/14/EC  
LpA: (cab) 68 dB (A) ISO 6396



**926D**  
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**STANDARD EQUIPMENT:**

- ◆ 500/70-28 Good Year tyres
- ◆ 4-Point Cab Suspension
- ◆ Friction differential lock in front
- ◆ 100% differential lock rear
- ◆ Oscillating lock
- ◆ Excavating brake
- ◆ Spring suspension loader
- ◆ Hydraulic pipework on loader
- ◆ Hydraulic quick hitch on loader/excavator
- ◆ Pipework on excavator
- ◆ Climate control system, automatic
- ◆ Headrest
- ◆ Rotating beacon
- ◆ Warning triangle
- ◆ Radio with CD and MP3
- ◆ Automatic return-to-dig on loader
- ◆ Belly plate rear
- ◆ Electrically heated side mirrors
- ◆ Seat heating
- ◆ Cruise control
- ◆ Automatic driving lights
- ◆ 8 Mega Beam work lights
- ◆ Electric operated seat console and steering wheel adjustment
- ◆ Automatic throttle control
- ◆ Cooling box
- ◆ 12V/24V plug in the cab
- ◆ Side mirrors for double command
- ◆ Intermittent wind shield wipers front/rear
- ◆ Solar blinds front/rear
- ◆ Portable lamp
- ◆ Red night illumination in cab
- ◆ Electric adjustable mirrors in front

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**OPTIONAL EQUIPMENT:**

- ◆ Hydraulic quick hitch for loader - BM
- ◆ Shovel protection loader
- ◆ Telescopic arm excavator
- ◆ Short dipper for rotortilt
- ◆ Extra pipework
- ◆ Rubber plates for stabiliser
- ◆ Hydraulic quick hitch excavator
- ◆ Engine heater
- ◆ Bio hydraulic oil
- ◆ Optional tyres:  
600x60R-30.5 TWIN - 20.5Rx25 EM - Nokia 540/65x30
- ◆ Belly plate in front
- ◆ Mudflaps on front wings
- ◆ Air-cushioned seat
- ◆ Remote control for radio
- ◆ Xenon work lights
- ◆ Work lights on dipper
- ◆ Rear view camera
- ◆ Extra rotating beacon
- ◆ Wheel button
- ◆ Front wings for skid chains



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