

Cover crop disc harrow

DISCOVER XM2 DISCOLANDER XM



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be strong, be **KUHN**



DISCOVER

XM2 28

XM2 32

XM2 36

XM2 40

XM2 44

DISCOLANDER

XM 32

XM 36

XM 40

XM 44

XM 48

XM 52

INNOVATIVE REFERENCES



- You want to carry out surface stubble cultivation from 5 to 12 cm.
- You want to carry out deep stubble cultivation down to 18 cm.
- You want to bury large quantities of residues (grain corn, plant cover and manure).
- You want to turn pasture land.
- You have heavy soil and need a high penetration and cutting machine.
- Quick and easy machine adjustments are important to you.
- You want top quality work, even in stony ground and at high speeds.

Opt for a **DISCOVER XM2** or **DISCOLANDER XM**,

to be able to adapt to different types of jobs, and to be sure of getting a high quality job done with a simple, robust, efficient, and versatile tool.

KUHN's cover crop disc harrows in brief:

Models	Number of discs	Disc diameter (mm)
DISCOVER XM2	28/32/36/40 and 44	Ø 660 X 6 Ø 660 X 8
DISCOLANDER XM	32/36/40/44/48 and 52	Ø 660 X 6 Ø 660 X 8 Ø 710 X 7



INTERMEDIATE RANGE

FOR 85 TO 204 HP TRACTORS

A range of 28 to 44 discs aimed at mixed arable farms, agricultural machinery cooperatives and contractors. Enhanced ease of use sets the Discover XM2 apart. Manual or hydraulic folding and available attachments are aimed at further enhancing its productivity. Its reinforced structure makes it suitable for intensive use.



MULTI-POSITION HITCH

Three positions combined with adjustment using the turnbuckle allow the height to be optimized at the towing point thus obtaining maximum benefit from the tractor's power.



EXTRA-WIDE WHEELS

Wide tyres can be fitted as an option for improved load carrying capacity and lower ground bearing pressure.



CENTRE BEAM STRUCTURE

Beam

250 x 250 x 10 mm.

Box section disc holders

150 x 100 x 8 mm.

DISC GANGS

Alternate discs in special high tensile strength heat treated steel.

Fitted on 40 mm shaft.

660 mm diameter on XM2.

Thickness: 6 mm.



MECHANICAL SETTING OF OPENING AND FOLDING

Basic mechanics with 2 pins

The first pin locks the unit in the working or transport position. The second determines the opening of the disc gangs and allows the initial opening to be reset (memory function).



HYDRAULIC SETTING OF OPENING AND FOLDING

Hydraulic option

It provides optimum ease of use. The system allows for the opening of the disc gangs to be set in work and for the Discover to be folded for transport down to an overall size of less than 2.50 m for road travel.

EXCLUSIVE TO KUHN

The design of the centre beam (patented) allows the forces applied by the links of the front and rear disc gangs to be balanced.

Benefits:

- very low pressure in the disc gang folding cylinder,
- facility for adjusting the opening of the disc gangs in work,
- automatic setting to transport position without leaving the tractor.

STRENGTHS COMMON TO THE WHOLE DISCOVER RANGE

The centre beam of the DISCOVER provides twice the strength of a conventional chassis. Even the most arduous conditions, dry soil, intensive use and high towing forces will not be able to defeat it!



ROBUSTNESS: CENTRAL BEAM



OPTIMUM VISIBILITY

Visibility and ease of use are the ensurance of a job well done. The discover allows the work quality to be monitored constantly. Who else can offer such benefits?



HEAVY DUTY BEARING BLOCKS

GS cast bearing blocks (manufactured by KUHN), fitted with taper roller bearings with double sealing and grease fittings, designed for intensive use under heavy loads.



ACCESSIBILITY: FOR ADJUSTMENTS AND MAINTENANCE

The centre beam together with carefully located grease fittings give you easy access and exemplary ease of use. Comfort and speed make this task less strenuous thus ensuring a long service life.

OPTIONAL EQUIPMENT

3 ROLLER POSSIBILITIES

Roller (as option) with mechanical suspension on XS and XM2. In folded position, the roller remains within the overall dimensions of the machine.



CRUMBLER ROLLER
Ø 550 - 75 kg/m



T-RING ROLLER
Ø 600 - 130 kg/m



T-LINER ROLLER
Ø 600 - 140 kg/m



STABILIZING DISC

605 mm in diameter, it is fitted on an adjustable telescopic arm giving optimum stability on uneven ground.



ADJUSTABLE DEFLECTOR PLATES

Prevents soil from being thrown too far out from the ends of the disc gangs ensuring an even work finish.



SEED DRILL FOR SMALL SEEDS

DISCOVER can be fitted with seed drills for small seeds used for intermediate cultivations.
Hopper capacity: 200 to 400 litres (higher capacity, contact us)
Number of outlets: 8
2 metering units: small and large seed
Seeding capacity: 25 kg/ha in 6 m with small seeds at 10 km/h.



BEARING STATION
SAFETY



MILEAGE COUNTER,
HECTARE COUNTER



DIFFERENT HITCH
FRAMES
ARE RECOMMENDED



SAFETY AND COMFORT FOR



The entire DISCOVER range folds lengthwise thus ensuring optimum stability in the transport position. The overall width is under 2.50 m. Lighting and signalling are standard on the entire range. Hydraulic braking is standard on the XM2.



TRANSPORT

The DISCOLANDER is very compact for transport: only 2.55 m wide, for easy road travel in total safety with mechanical extension lock.

INCREASINGLY IMPROVED QUALITY, MANEUVERABILITY, COMFORT, AND ROBUSTNESS



AN EXCLUSIVE DESIGN FOR 100% EFFECTIVE STUBBLE CULTIVATION

The "KUHNS exclusive" spring-loaded blade holder **1** makes the disc gangs independent. In stony conditions, the machine remains stable and limits unworked areas, unlike a classic cover crop. It provides efficient protection to the chassis and bearings. It also accentuates the expansion and cut effect of the soil with its vibration effect.

KUHN has put a new quadruple seal bearing **2** on the DISCOLANDER with a 6% higher load capacity and 23% longer life.





QUICK, EASY ADAPTATION TO WORKING CONDITIONS

Hydraulic disc gang angle adjustment enables adaptation to working conditions from the tractor cab. Front and rear disc gangs are adjusted independently to give unrivalled cut quality.



SUPERIOR QUALITY STUBBLE CULTIVATION

The disc gangs are staggered for better disc overlap and higher capacity in large volumes of plant debris at the centre of the machine.

Mechanical adjustment by tie rod with ratchet provides a more economical version.



EASY TO OPERATE FOR YOUR COMFORT

Simple, precise depth adjustment from the tractor cab. Depth adjustment is made by the roller and the tractor's lift arms. The wheels are just for transport and headland turns.

A drawbar cylinder ensures parallel machine lift on headlands and makes progressive soil engagement possible.



ERGONOMY AND COMFORT FOR UNHINDERED ROAD TRANSPORT

The DISCOLANDER is very compact for transport: only 2.55 m wide, for easy road travel in total safety with mechanical extension lock.

Extra comfort added with hydraulic suspension as standard.



A ROBUST, POWERFUL MACHINE (300 X 300 X 8 mm)

The single beam design makes the machine more robust. The curved tube side frame design and 2 cylinders make it more rigid.

Thanks to its design, the DISCOLANDER XM 52 can take up to 360 horsepower.



PRACTICAL WITH A 110° TURNING ANGLE!

Vertical folding and the integration of the axle in front of the roller make a shorter machine. It is also more manoeuvrable thanks to the crossbar linkage system.

In comparison to a DISCOVER, the DISCOLANDER is 25 cm shorter, so easier to manoeuver.



OPTIONS

A ROLLER FOR EVERY SITUATION

According to your soil type, KUHN provides a wide range of rollers to adapt to your conditions. From light to heavy, each model has its function:

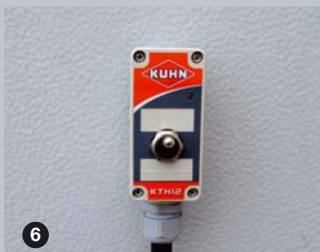
- 1 T-Liner:** the new lightweight roller that works well in stony and wet conditions. It is aggressive like the TRing. 600 mm and 140 kg/m in treated steel, impact and wear resistant.
- 2 HD-Liner 600 et 700:** the new heavyweight roller with high tamping capacity. Its V-shape provides vertical and diagonal force for deep down tamping along the length of the roller. 600 and 700 mm 180 and 225 kg/m in treated steel, impact and wear resistant.
- 3 Tube 900:** 900 mm diameter roller ideal for sandy and very light soils.



- 4** Extra-large wheels 550/45-22.5
- 5** Hubometer to count the number of acres worked



KTH 12 two-function hydraulic selector **6** and KTH 105 fourfunction selector **7** to adapt the machine to tractors with few valves.



Plant cover seed drill to optimize your stubble cultivation passage by seeding crop cover at the same time. The SH has a capacity of 200 or 380 liters, to give you autonomy on your different jobs.



	DISCOVER XM2				
	28	32	36	40	44
Number of discs	28	32	36	40	44
Disc diameter	Ø 660 x 6 mm or 660 x 8 mm (optional on alternate)				
Disc type	Alternate (notched, smooth)				
Working width (m)	3.40	3.85	4.30	4.75	5.20
Working depth (cm)	5 to 18				
Folding	Manual or hydraulic				
Transport width (m)	2.45 with tube roller 2.65 with tri-ang roller				
Number of bearing blocks	8	8 12 (optional)	12		
Tyres	400/60-15.5 520/50-17 (optional)				
Weight less roller (kg)	3785	4145	4305	4535	4695
With tube roller (kg)	4786	5166	5346	5628	5809
Options	Hydraulic folding - Stabilizing discs Bearing guards - Hectare counter - Hydraulic braking Extra-wide wheels - Roller				
Maximum tractor power (kW/hp)	95/129	109/148	122/166	136/185	150/204



	DISCOLANDER XM 32	DISCOLANDER XM 36	DISCOLANDER XM 40	DISCOLANDER XM 44	DISCOLANDER XM 48	DISCOLANDER XM 52
Min. tractor power (kW/hp)	90/120	105/140	120/160	135/180	150/200	165/220
Max. tractor power (kW/hp)	155/210	177/240	199/270	221/300	245/330	265/360
Number of discs	32	36	40	44	48	52
Working width (m)	3.70	4.15	4.60	5.05	5.50	6.00
Transport width (m)	2.55					
Weight (kg) (with HD-Liner roller ø 700 mm)	6100	6500	6900	7300	7800	8350
Weight (kg) (with T-Liner roller)	5800	6150	6500	6900	7300	7850
Linkage	crossbar cat. 3 and 4					
Tyres	520/50-17				550/45-22.5	
Suspension	standard					
Disc type	alternate (notched, smooth)					
ø discs (mm)	660, 6 mm thick or 8 mm (as an option) and 710, thick 7 mm (as an option)					
ø double eraser discs (mm)	610 then 510					
Number of bearings	8	10	12		16	
Type of disc gang holder	leaf spring					
Inter-disc spacing	230					
Folding	hydraulic for extensions and roller					
Disc gang angle adjustment	mechanical – hydraulic as an option					
Working depth/speed	5 to 18 cm working depth – average speed from 8 to 10 km/h					
Hydraulic adaptation	hydraulic lift (machine-drawbar): 1 DA hydraulic folding (roller-extension): 1 DA hydraulic roller depth: 1 DA hydraulic adjustment of disc gang angle: 2 DA (if option)					
Breaks	hydraulic as standard					

* KUHN SERVICES:

BENEFITS FOR MAXIMUM USE AND PROFITABILITY OF YOUR EQUIPMENT

*Certain services are not available in all countries.

KUHN sos order

Express spare parts service 24/7

You urgently need spare parts? With KUHN SOS ORDER benefit from express delivery seven days a week, 365 days a year. Thus, you can minimize machine downtime considerably and increase your work output.

KUHN protect +

The choice of professionals!

Benefit from 36 months in complete serenity because of KUHN's PROTECT + warranty. You can concentrate exclusively on your work and the performance of your machine. Because this is what you expect, when investing in high-tech machinery.

KUHN i tech

For ever quicker repairs!

An unexpected technical problem always occurs at the wrong time. Your KUHN dealer can support you quickly and efficiently thanks to KUHN I TECH. With this 24/7 online service, a quick and exact diagnosis is possible.

KUHN finance

Invest rationally!

New machine necessary, financing unsure? Modernize your equipment and develop your farm with KUHN FINANCE, in total safety and according to your needs and demands. We offer custom-made finance solutions, adapted to your requirements.



DISCOVER

XM2

DISCOLANDER

XM

INNOVATIVE REFERENCES

Farmers have different issues but common objectives: reducing the cost of crop establishment and high work output without compromising yield potential.

The DISCOLANDER XM was designed with this in mind. It is a versatile machine that is quick and easy for increased work output, and can be used in a great many situations.

STUBBLE CULTIVATION RANGE

	OPTIMER+	DISCOVER	DISCOLANDER	CULTIMER	PERFORMER
Working width (m/ft)	3/9'10" to 7.5/24'7"	3.40/11'1" to 5.20/17'	3.70/12'1" to 6/19'7"	3/9'10" to 6/19'7"	4/13' to 5/16'4"
Transport width (m/ft)	3/9'10" and 4/13'	<2.65/8'8"	2.55/8'3"	2.82/9'2" to 3.50/11'4"	3/9'10"
Number of discs or tines	24 to 60 discs	28 to 44 discs	32 to 52 discs	10 to 19 tines	14 to 18 tines
Recommended working depth (cm)	3 to 10	5 to 18	5 to 18	5 to 35	10 to 35
Mounted or trailed version	Mounted and Trailed	Trailed	Trailed	Mounted and Trailed	Trailed

Discover KUHN's disc or tine stubble cultivator range



1. OPTIMER+ 2. DISCOVER 3. DISCOLANDER 4. CULTIMER L 5. PERFORMER

For more information about your nearest KUHN dealer, visit our website www.kuhn.com

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