

Tandem disc harrows

## DISCOVER XS, XM2, XL2



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be strong, be **KUHN**



DISCOVER XS XM2 XL2

# THE GENERATION OF KUHN DISC HARROW WITH A HIGH TENSILE STRENGTH CENTRE BEAM

More than ever, KUHN is making an active contribution to your farm's profitability and can be termed the partner of success.

The DISCOVER unit is confirmation of this aim, offering you robustness, quality work and unparalleled ease of use:

- Full visibility of the implement in work.
- Easy access to the various maintenance points.

Reliability to withstand any test thanks to the high tensile strength centre beam and to the GS cast bearing blocks (manufactured in the KUHN foundry).

**To choose KUHN**  
is to prepare for  
the future right now!

Models	Number of discs	Disc diameter
DISCOVER XS	24 and 28	Ø 610 x 6 mm ou Ø 660 x 6 mm
DISCOVER XM2	28/32/36/40/44 and 48	Ø 660 x 6 mm ou Ø 660 x 8 mm
DISCOVER XL2	52 and 60	Ø 660 x 8 mm

DISCOVER

# 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 a guarantee 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.

DISCOVER XS

X TYPE TANDEM DISC HARROWS

# STANDARD RANGE FOR 70 TO 125 HP TRACTORS

Available in either 24 to 28 disc version and aimed at the mixed arable farms and agricultural machinery cooperatives the XS range offers ease of use with a high standard of work.



## DISC GANGS

Alternate discs in special high tensile strength heat treated steel. Fitted on 40 mm shaft. 610 diameter on XS (660 mm optional).



## HYDRAULIC FOLDING FOR TRANSPORT (OPTIONAL)

This system provides optimum ease of use. The disc gangs can be hydraulically folded into transport position directly from the tractor cab. The disc gangs fold in line to offer the safest possible road transport. Total width less than 2.5 m.

## MECHANICAL SETTING OF OPENING AND FOLDING

### Simple robust 2 pin system

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 found again when switching to the work position memory function).



## CENTRAL BEAM STRUCTURE

### Beam

250 x 250 x 10 mm.

### Box section disc holders

150 x 100 x 8 mm.



# INTERMEDIATE RANGE FOR 85 TO 218 HP TRACTORS

A range of 28 to 48 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 optimised 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 better 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 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.

DISCOVER XL 2

X TYPE TANDEM DISC HARROWS

# WIDE RANGE FOR 240 TO 390 HP TRACTORS

A range of 52 to 60 discs aimed at large acreage arable farms, agricultural machinery cooperatives and contractors. The Discover XL2 offers exceptional working capacities and performance. The rear location of the load bearing axle optimises the tractor's towing capabilities. Standard hydraulic setting for the opening of the disc gangs and hydraulic folding provide unequalled ease of use.



## EXCLUSIVE TO KUHN

The design of the centre beam (patented) ① 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.



## SETTING OF OPENING AND FOLDING

Standard hydraulic folding and width setting of the disc gangs provides unequalled ease of use, even in difficult conditions.

## DISC GANGS

Alternate discs in special high tensile strength heat treated steel. Fitted on 40 mm shaft. 660 diameter on XL2. Thickness: 8 mm.



### **ADAPTATION TO 390 HP TRACTORS**

Category 3 and 4 hitch bar with 8 mm thick drawbar: rigidity and robustness.



### **CENTRE BEAM STRUCTURE**

Beam 400 x 400 x 10 mm.

Disc holders 150 x 150 x 8 mm in box sections with reinforcing arms.



### **LOAD BEARING AXLE**

The rear location of the axle on the implement ensures work quality is monitored properly and allows a roller to be fitted. Double cylinder on carrying frame to increase its rigidity and depth adjustment using spacers.

## OPTIONAL EQUIPMENT

### 3 ROLLER POSSIBILITIES

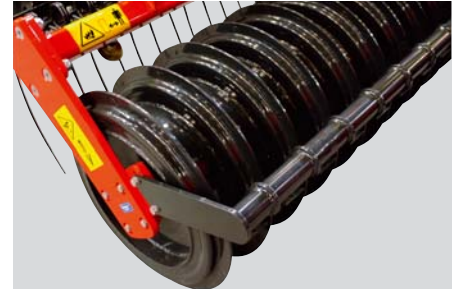
Roller (as option) with mechanical suspension on XS and XM2 ranges and hydraulic suspension on XL2 range. In folded position, the roller remains within the overall dimensions of the machine.



**CRUMBLER ROLLER**  
(only XS and XM2)  
Ø 550 - 75 kg/m



**T-RING ROLLER**  
Ø 600 - 130 kg/m



**T-LINER ROLLER**  
(only XM2 and XL2)  
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**

## Technical specifications

## Discover

	DISCOVER XS		DISCOVER XM2						DISCOVER XL2		
	24	28	28	32	36	40	44	48	52	60	
Number of discs	24	28	28	32	36	40	44	48	52	60	
Disc diameter	Ø 610 x 6 mm Ø 660 x 6 mm (optional)		Ø 660 x 6 mm ou 660 x 8 mm (optional on alternate)						Ø 660 x 8 mm		
Disc type	Manual or hydraulic										
Working width (m)	2.95	3.40	3.40	3.85	4.30	4.75	5.20	5.65	6.10	7	
Working depth (cm)	5 to 15		5 to 18						5 to 18		
Folding	Manual or hydraulic								Hydraulic		
Transport width (m)	< 2.65		2.45 with tube roller 2.70 with tring roller						< to 3		
Number of bearing blocks	8				8 12 (optional)	12		16	16		
Tyres	11.5/80-15 400/60-15.5 (optional)		400/60-15.5 520/50-17 (optional)						520/50 17 TL	550/60-22.5	
Weight less roller (kg)	2812	2963	3785	4145	4305	4535	4695	5230	6438	7090	
With tube roller (kg)	3705	3902	4786	5166	5346	5628	5809	6100	9900	10400	
Options	Hydraulic folding Stabilizing discs Bearing guards Hectare counter Wide wheels - Roller		Hydraulic folding - Stabilizing discs Bearing guards - Hectare counter Hydraulic braking - Extra-wide wheels - Roller						Stabilizing discs Bearing guards Hectare counter Roller		
Maximum tractor power (kW/hp)	79/ 107	92/ 125	95/ 129	109/ 148	122/ 166	136/ 185	150/ 204	160/ 218	258/ 350	287/ 390	

\* 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

XS

XM2

XL2

# THE INNOVATIVE REFERENCE!

DISCOVER

## SAFETY AND COMFORT FOR TRANSPORT



The entire DISCOVER range folds lengthwise thus ensuring optimum stability in the transport position. The overall width is under 2.50 m for the XS and XM2 and 3 m for the XL2 in all cases. Lighting and signalling are standard on the entire range. Hydraulic braking is standard on the XL, XM2 and XS.

DISCOVER XS

DISCOVER XM2

DISCOVER XL2



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Your KUHN dealer

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Société Anonyme au capital de 4 800 000 EUR

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