

Independent disc stubble cultivators



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OPTIMER+ 103, 103R and 1003 Series



be strong, be **KUHN**



MIXING EFFICIENCY AT HIGH SPEED



In today's economic environment, one of the ways to reduce costs is to move to minimum cultivation and no-till techniques.

Stubble cultivation, the first operation after harvesting, is crucial for minimum tillage techniques to succeed.

Stubble cultivation has several aims:

- **Creating** a seedbed (forced emergence of weed for regrowth and volunteer seeds)
- **Straw decomposition**
- **Preparing** future operations (seeding)
- **Levelling the soil**
- **Preventing** evaporation
- **Increasing pest control**

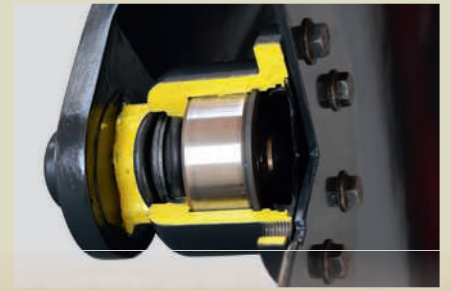
KUHN took all these objectives into account when developing the OPTIMER+: rapid stubble cultivation immediately after harvest.

Independent disc stubble cultivators

KUHN in brief:

Models	Number of discs	Working width (m)
OPTIMER+ 103	24/28 and 32	3/3.5 and 4
OPTIMER+ 103R	32/40 and 48	4/5 and 6
OPTIMER+ 1003	32/40/48 and 60	4/5/6 and 7.5

BENEFITS OF THE 103 AND



INCREASED CLEARANCE

The new arms provide increased clearance to the frame. (additional 126 mm between the frame and soil)
Increased capacity in case of large quantities of plant residues: wider range of use.

GREATER COMFORT

Hubs with double row of oblique contact ball bearings. The new hubs are lubricated for life. No more maintenance required: time savings. No penetration of foreign bodies during disc replacement.



1003 SERIES



TYPE OF DISC

510 mm curved discs with notches.

Goal:

- work in large quantities of plant residues
- shredd crop residues
- even mixing of soil/residues.

510 mm discs with small notches.

Goal:

- work in small quantities of plant residues
- improved work for shallow stubble clearing.



INDEPENDENT DISC SAFETY

Individual disc safety is ensured by a system of 4 polyurethane elastomer blocks allowing the discs to move if an obstacle is hit. As each disc reacts independently, the working depth is not altered across the whole machine.



IDEAL FOR INTER-CROP MANAGEMENT IN TILLAGE SYSTEM

- Working at shallow depth (between 3 and 10 cm) to enhance even emergence of weeds and seeds from previous crop.
- Intensive mixing of crop residues with the soil to encourage decomposition.
- Packing levelled soil.
- Level ploughed soil.

Its high work speed ensures high field work output.



COMPACT DESIGN

The OPTIMER's compact design and small overhang means it can be adapted to most tractors you would find on mixed farms.

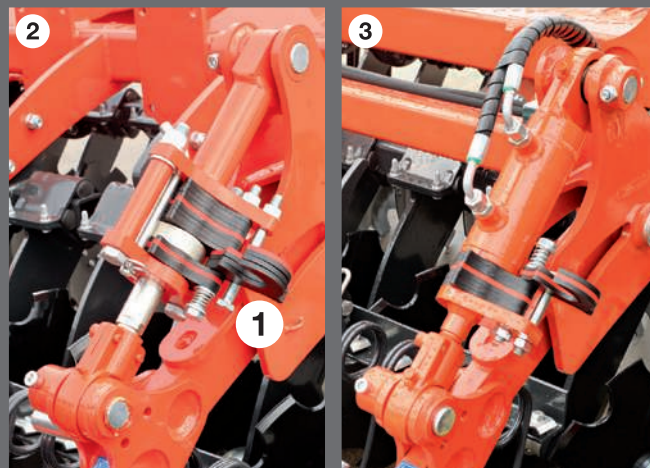


SIMPLE AND ACCURATE ADJUSTMENT, NO TOOLS NEEDED

Working depth adjustment is quick and tools-free thanks to spacers' chargers **1**. As standard **2**, the working depth adjustment is mechanical but it's available with hydraulic assistance **3** in option. As a result, it's very simple and comfortable to adapt the working depth from 3 to 10 cm.

TINE HARROW (optional) **4**

This optional extra can be used to increase the levelling capacity of your OPTIMER.



THE DISCS ARE INCLINED IN RELATION TO BOTH THE GROUND SPEED AND VERTICALLY

The disc attack angle gives them a large capacity to penetrate the soil. Their shape provides intensive mixing of soil and crop residues.





HITCHED TO THE LIFT ARMS

This gives the trailed machine several advantages:

- Easy to adapt to the traction height
- Load transfer on the tractor for improved adhesion
- Reduced turning radius.





The trailed version can be equipped with front gauge wheels to follow perfectly the soil.



For more comfort, these wheels are available with the hydraulic assistance by spacers in option.



FOR OPTIMIZED PACKING: A RANGE OF ROLLERS FOR 103 AND 1003 SERIES



T-RING ROLLER

- Diameter: 600 mm
Weight: 130 kg/m
- Crumbles clay and/or cloddy soil
 - Keeps its roughness on loams
 - Helps straw decomposition.



T-LINER ROLLER

- Diameter: 600 mm
Weight: 140 kg/m
- Good performance in stony grounds
 - Good crumbling
 - Good compaction over the whole width.



PACKLINER ROLLER

- Diameter: 600 mm
Weight: 165 kg/m
- Excellent consolidation
 - Good at forced seed emergence
 - Operates well in damp conditions.



CRUMBLER ROLLER

- Diameter: 550 mm
Weight: 75 kg/m
- Proper tamping level with load transfer
 - Light-weight, long service life
 - Versatility.

OPTIONS



RIGHT SIDE DEFLECTOR (as option)

For good control of side ejections.



COMB HARROW (as option)

It increases the straw levelling and distribution capacity as well as regulates the flow of soil and residues



VERSATILITY: WHY NOT USE YOUR STUBBLE CULTIVATOR TO DRILL?

The SH small seed drill can be fitted to drill a cover crop.
You also have the possibility to fit a distribution head to a front hopper to broadcast seed.

Technical specifications

OPTIMER+

	OPTIMER+ 303	OPTIMER+ 353	OPTIMER+ 403	OPTIMER+ 403R	OPTIMER+ 503R	OPTIMER+ 603R	OPTIMER+ 4003	OPTIMER+ 5003	OPTIMER+ 6003	OPTIMER+ 7503
Design	mounted rigid			mounted foldable			trailed			
Working width (m/ft)	3/9'10"	3.5/11'6"	4/13'1"	4/13'1"	5/16'5"	6/19'8"	4/13'1"	5/16'5"	6/19'8"	7.5/24'7"
Transport width (m/ft)	3/9'10"	3.5/11'6"	4/13'1"	3/9'10"			< 3/9'10"			
Number of discs	24	28	32	32	40	48	32	40	48	60
Diameter of discs (mm/inches)	510/20 large or small notches (on request)									
Maximum power requirement (kW/hp)	110/150	129/175	147/200	147/200	184/250	221/300	147/200	184/250	221/300	265/360
Weight (kg/lbs) depending on equipment	1670/ 3682	1940/ 4277	2290/ 5049	2815/ 6206	3552/ 7831	3877/ 8547	4400/ 9700	4825/ 10.637	5200/ 11.464	5500/ 12.125
Hydraulic fitting							2 DA			
Types of rollers available	Crumbler/T-Ring/ T-Liner/PackLiner		Crumbler/ T-Ring/ T-Liner	Crumbler/T-Ring/T-Liner/ Packliner			T-Ring/T-Liner/Packliner			
Lighting and signalling	Optional						As standard			
Transport wheels	-						400/55 x 22.5		500/45 x 22.5	
Road homologation	DREAL/TÜV									

* 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.



OPTIMER+

103, 103R AND 1003 SERIES

ENHANCED STUBBLE CULTIVATION

STUBBLE CULTIVATION RANGE

	OPTIMER+	DISCOVER	CULTIMER	PERFORMER
Working width (m/ft)	3/9'10" to 7.5/24'7"	3.40/11'1" to 5.20/17'	3/9'10" to 6/19'7"	4/13' to 7/22'9"
Transport width (m/ft)	3/9'10" and 4/13'	<2.65/8'8"	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	10 to 19 tines	14 to 26 tines
Recommended working depth (cm)	3 to 10	5 to 18	5 to 35	10 to 35
Mounted or trailed version	Mounted and Trailed	Trailed	Mounted and Trailed	Trailed

Discover KUHN's disc or tine stubble cultivator range



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

For more information about your nearest KUHN dealer, visit our website

www.kuhn.com



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