

Independent disc stubble cultivators



[www.kuhn.com](http://www.kuhn.com)

## OPTIMER+ 103, 103R and 1003 Series



be strong, be **KUHN**







OPTIMER+ 103, 103R AND 1003 SERIES

# 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.

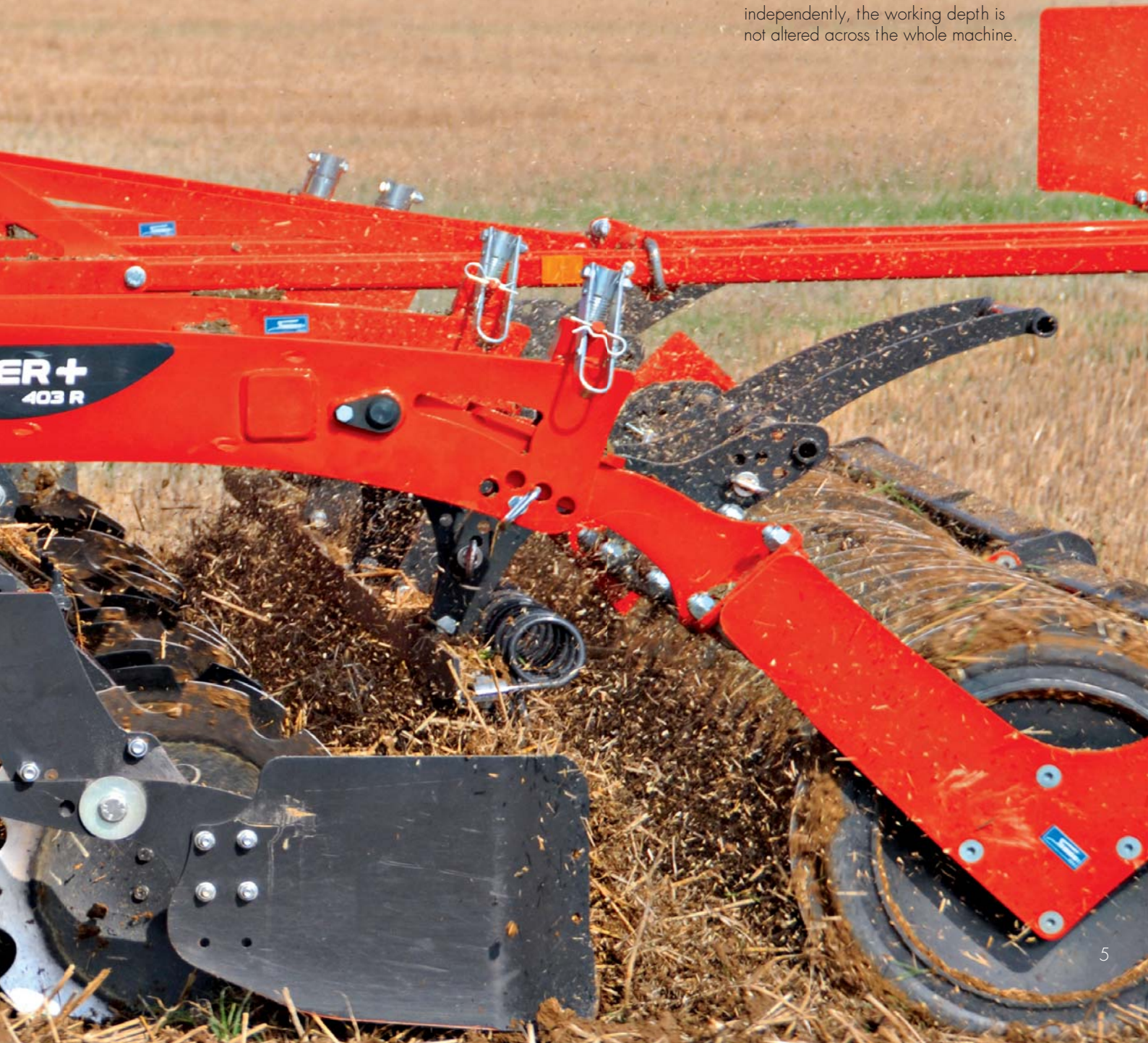
Goal:

- 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 can be adjusted continuously from 3 to 10 cm using an easy to access stop screw and a graduated plate **1**.

## TINE HARROW (optional) **2**

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.







OPTION:  
FRONT STABILIZING  
WHEELS







## 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.



	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+ 303 353 403 4003 5003 6003 7503

# ENHANCED STUBBLE CULTIVATION

## STUBBLE CULTIVATION RANGE

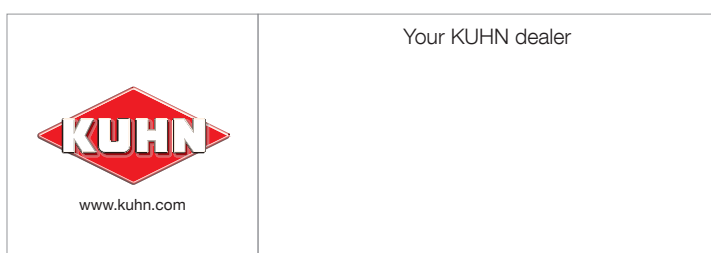
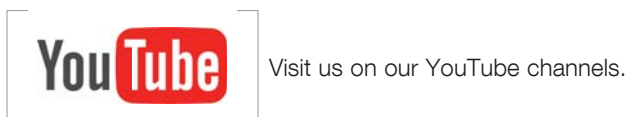
	OPTIMER+	DISCOVER	DISCOLANDER	CULTIMER	PERFORMER
Working width (m/ft)	3/9'10" to 7.5/24'7"	3.40/11'1" to 5.20/17'	3.70/12'1" to 6/19'7"	3/9'10" to 6/19'7"	4/13' to 5/16'4"
Transport width (m/ft)	3/9'10" and 4/13'	<2.65/8'8"	2.55/8'3"	2.82/9'2" to 3.50/11'4"	3/9'10"
Number of discs or tines	24 to 60 discs	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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313-325 Foleys Road - Deer Park, VIC, 3023 - AUSTRALIA

### KUHN FARM MACHINERY (U.K.) LTD

Stafford Park 7 - GB TELFORD/ SHROPS TF3 3BQ

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