

Trailed Disc Mower Conditioners

FC 1060 TL SERIES
FC 1060 TC SERIES



www.kuhn.com



be strong, be **KUHN**



FC	2860 TLD/TLR/TLS	3160 TLD/TLR/TLS/TLV	3560 TLD/TLR/TLS	
FC	3160 TCD/TCR/TCS	3560 TCD/TLR/TLS	4060 TCD/TLR/TLS	4460 TCD/TCR/TCS
FC	3160 TCD RA	3560 TCD RA		

DYNAMIC CUTTING FOR DYNAMIC PRODUCERS!

INCREASED PRODUCTIVITY NEEDED FOR AN OPTIMUM BASIC RATION

How to remove the forage out of the field as quickly as possible to preserve the maximum of its nutritional value? This question rests in the mind of livestock farmers in times of unpredictable weather conditions and increasing concentrates' prices. The KUHN FC 1060 series offers clean, fast mowing of heavy grasses and delicate forage crops, combined with quick drydown from effective conditioning. Save money and make your machine more profitable.

LOOKING FOR FLEXIBLE MACHINES

You can adapt these mower-conditioners to versatile conditions: wide spreading, grouping two swaths, different swath widths...the opportunities are numerous.

HOW COST-EFFECTIVE CAN A MACHINE BE?

The operational costs are down to a minimum with these machines, as they require considerably less power than comparable models. So are the maintenance costs thanks to the reliable OPTIDISC cutter bar with PROTECTADRIVE safety.

KUHN trailed mower conditioners in brief:

	Working width (m)	Swath width (m)	Model
FC 2860 TLD/TLR/TLS	2.67	0.90 - 1.90	side pull
FC 3160 TLD/TLR/TLS	3.10	0.90 - 2.30	side pull
FC 3160 TLV	3.10	0.90 - 2.80	side pull
FC 3160 TCD/TCR/TCS	3.10	0.90 - 2.30	centre pivot
FC 3160 TCD RA	3.10	0.90 - 2.30	centre pivot with belt conveyor
FC 3560 TLD/TLR/TLS	3.50	1.10 - 2.70	side pull
FC 3560 TCD/TCR/TCS	3.50	1.10 - 2.70	centre pivot
FC 3560 TCD RA	3.50	1.10 - 2.70	centre pivot with belt conveyor
FC 4060 TCD/TCR/TCS	4.00	1.10 - 2.70	centre pivot



AS FLEXIBLE AS YOU NEED IT



KEEP YOUR OPTIONS OPEN

KUHN offers very flexible machines with various delivery options: from wide spreading to delivering one swath or grouping two swaths. All changes can be made easily within moments. Windrow widths can be adjusted from 0.90m on the FC 2860 TL or 3160 TC / TL up to 2.70m on the FC 3560 TC / TL and 4060 TC or even a combined 2.80m in two swaths with FC 3160 TLV. In this way, you will find the optimum solution for most harvesting practices, types of forage and field conditions.



ACCELERATE DRYING TIME FOR INCREASED FORAGE QUALITY

Recommendations of agronomists are consistent: in normal conditions wide spreading greatly reduces drying time, provides better flexibility to beat incoming weather conditions and helps retain a higher quality forage. Conditioning and wide spreading: together they will save you one pass with the tedder.



GROUP TWO SWATHS FOR QUICKER HARVESTING

With the swath shield's help you can limit the swath width to a minimum. After two passes a "double swath" is created, which enables you to harvest 6.00m of forage with a self-propelled chopper with 3.00m pick-up. According hydraulic swath shields are standard on the FC 3160 TLV model. They are available in mechanical version as option on the FC 3160 TCD and FC 3560 TCD mower conditioners.

MINIMUM CROP DAMAGE FOR OPTIMIZED FODDER



REDUCE COSTS THROUGH OPTIMIZING BASIC RATION

Any profits from animal husbandry start with the feed reserves stored in a silo, bales, or bulk. The aim is simple: produce as much meat or milk as possible from the basic feed ration components. To promote this objective the palatability of the feed must be maximized. To achieve this, the sward has to be preserved and the contamination of the forage minimized. KUHN contributes with according technical details on the new mower conditioners to make the most out of the forage for your profitability.



GIVE SOIL AND GRASS COVER A BREAK

The ultra-large tyres only exert little pressure on the ground, thus preserving the crop and preventing soil compaction (not available on FC 2860 TL). They are currently the widest on the market of mower conditioners!



CONSTANT SUSPENSION OF THE CUTTING UNIT

The mowing unit is suspended by torsion bars on the FC 1060 series. It follows the contours closely for an even cut and can be adjusted separately on both sides. This helps protect the sward and the machine, and keeps dirt out of the harvested forage.

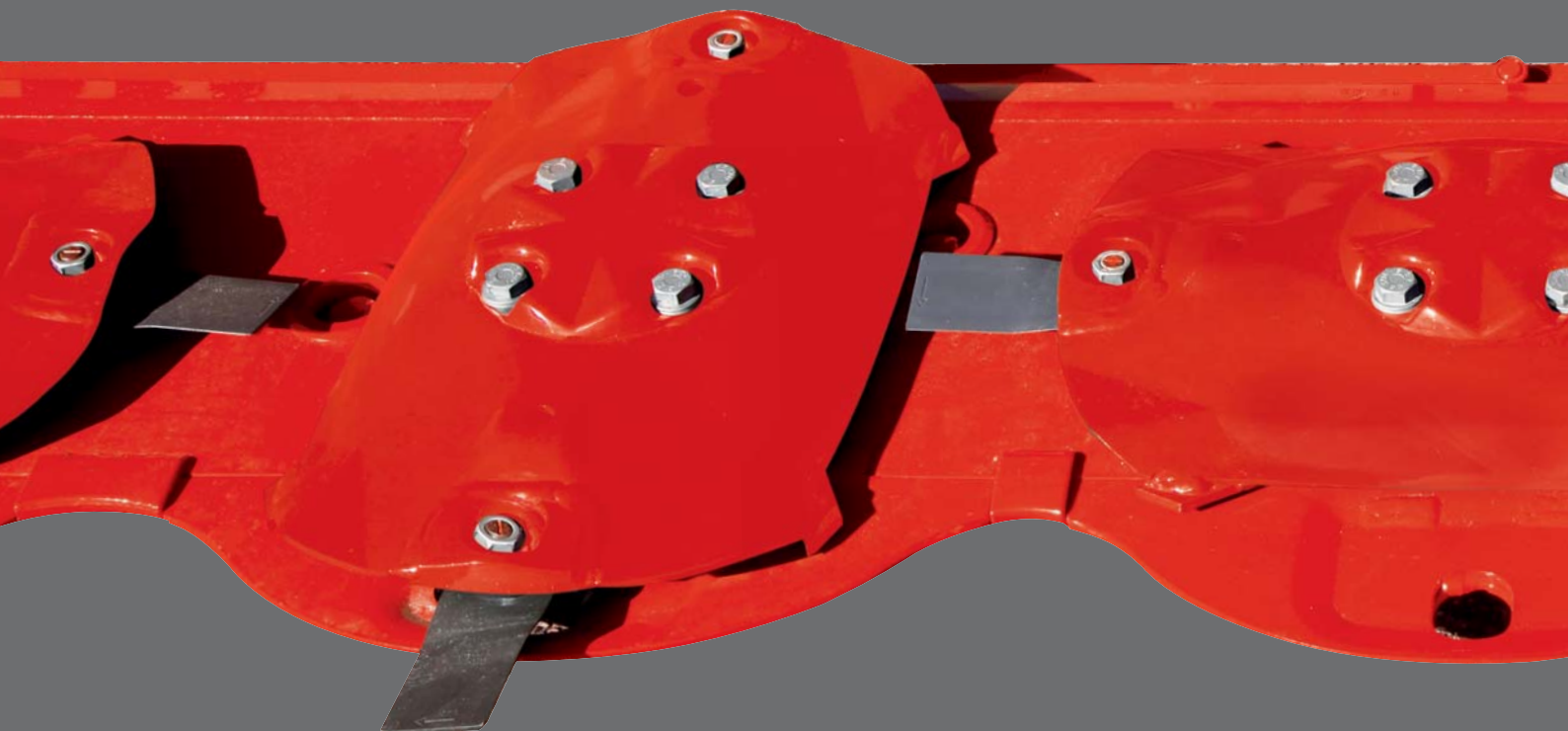


R. Brezzi

from Piedmont region in Italy states about his FC 3160 TCR:

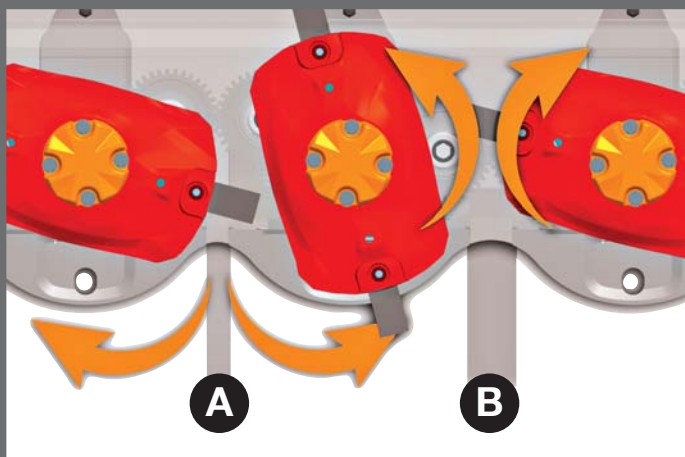
«The FC 3160 TCR has not only improved but it has transformed the hay and silage making on our farm. Immediately we have appreciated the high productivity of cutting and the perfect swath forming in spite of the complicated season we had this year. The continuous rains, short time for cutting, the need to cut, however, quickly but without damaging the quality of the forage...we were able to achieve all this with the new FC, we are very happy. Despite the high speed of not less than 15-18 km/h, the quality of the forage was always preserved.»

OPTIDISC: THE OPTIMUM CUT!



FAST AND HIGH-QUALITY WORK

The design of the OPTIDISC cutter bar stands out ensuring unmatched cutting quality, increased resistance to wear and shocks as well as through its high comfort of use. Important assets for lower costs and time-saving operations!



(A) LESS DISTANCE FOR A CLEAN CUT

On the OPTIDISC cutter bar, the distance is reduced at the point where the discs diverge to increase the knife overlap, resulting in a clean cut even when the grass is short or light.

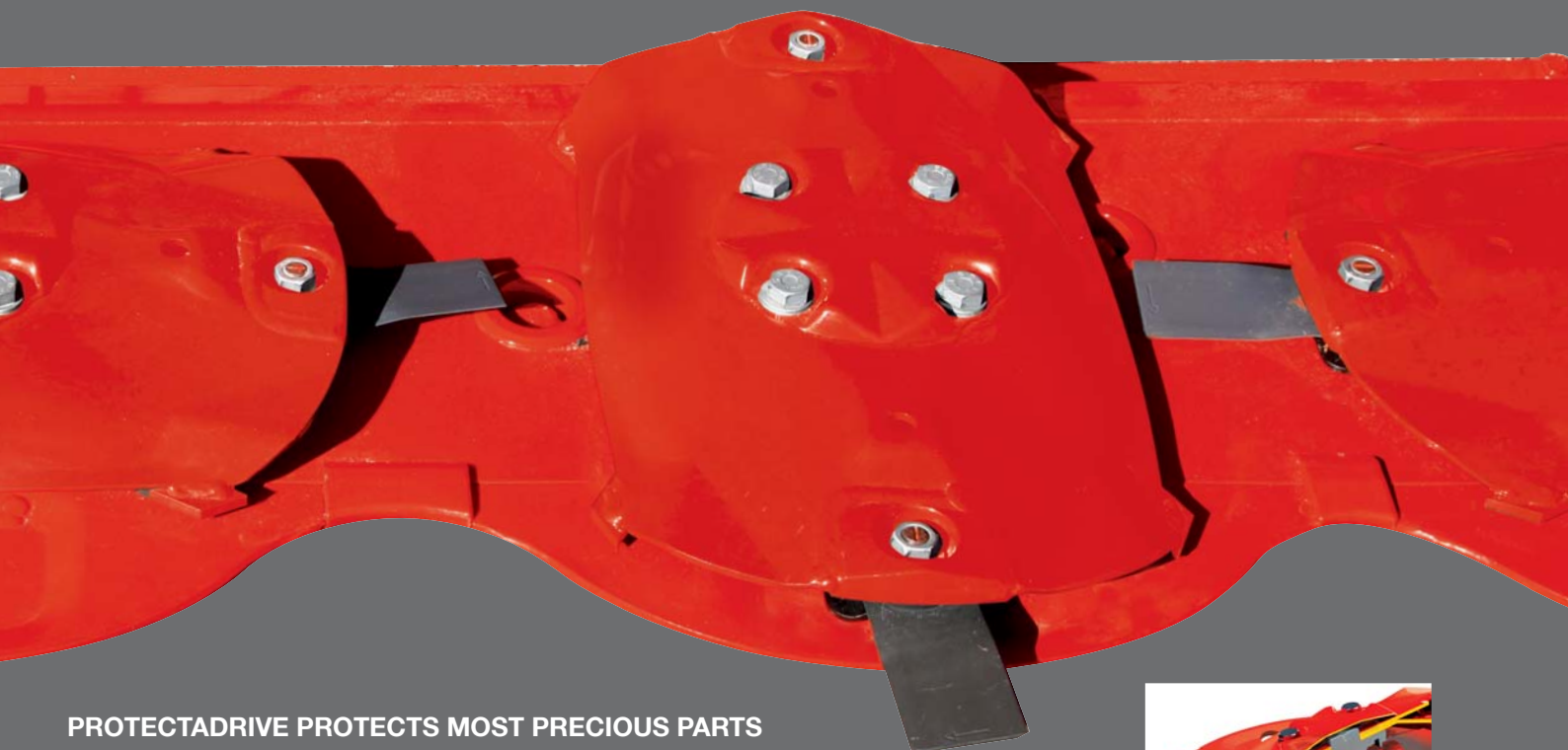
(B) MORE DISTANCE FOR EASY CROP PASSAGE

At the point where the discs converge the distance is increased, thus more space is provided for the crop to pass. It is quickly carried away from the cutting area, thus further improving the cutting quality.



ROBUSTNESS AND COMFORT FEATURES:

sealed gearbox – disc bearing station with double row angular ball bearings - large diameter gearwheels (no small spur gears are used) – modules as well as intermediate gears quickly and easily interchangeable - lubricated for life, no oil changes necessary.



PROTECTADRIVE PROTECTS MOST PRECIOUS PARTS

Every minute saved during the season is precious: in the event of a very violent impact between a disc and an obstacle, the shaft holding the disc can shear just above the bearing, thanks to a carefully dimensioned shear groove. The precious gearwheels are protected. In less than 15 minutes the machine is operational once more!

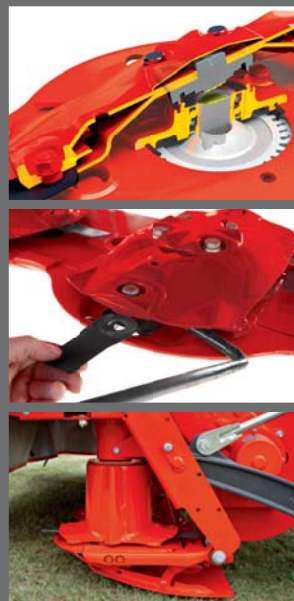
EXCLUSIVE

QUICKLY RELEASED AND COMPLETELY SECURED

The FAST-FIT quick release knife mount system is standard on KUHN's FC 1060 series. A powerful leaf spring provides constant pressure to the knife retainer for top securement. Still the knives can be changed in a few moments.

WHERE THE CUTTING HEIGHT HAS TO BE ADAPTED

Lifting skids are available for mowing conditions, which necessitate elevated cutting heights. Up to 150 mm (5.9") are possible. They will also prove useful in wet and sticky mowing situations.



be strong, be **KUHN**

KUHN PARTS

Designed and manufactured to rival time



KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.



FC

1060 TLD

1060 TCD

AN UNMATCHED CONDITIONER SELECTION

Faster mowing, wide swathing, efficient conditioning: those are the ingredients to improve the productivity of your operation and the quality of your crop.



PIVOTING STEEL FINGERS FOR TOUGH CONDITIONS

The steel finger conditioner (TLD/TCD) provides consistent drying of grass, particularly in difficult conditions. Therefore they perform well in heavy forage and long grass, while requiring only little maintenance. Correctly shaped steel fingers achieve comparable drydown rates as other conditioning options. The pivoting fingers can avoid foreign material, when necessary.



KUHN PLUS

UNRIVALLED SWATH DEPOSIT

The conditioner hood is guided directly by the main frame of the mower conditioner, thus providing a more regular swath deposit, which is independent of the cutter bar movements.

CONDITIONING INTENSITY SET IN A FEW SECONDS

The steel finger conditioner can be adapted to the requirements of the forage by a simple two-speed selector. Slow the rotor speed down for delicate crops (780 min^{-1}) and speed up for dense grasses ($1,000 \text{ min}^{-1}$). The roller conditioners speeds are 780 min^{-1} .

Because it's all about speeding up the drying process to receive forage of high nutritional value.

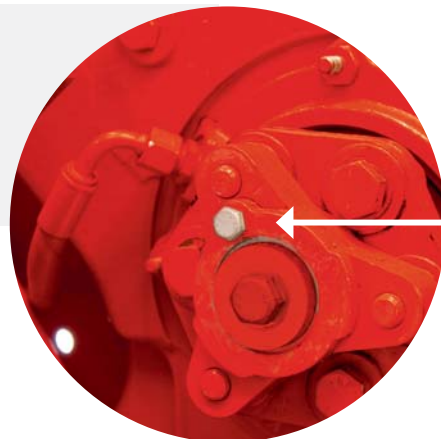


ROLLERS FOR GENTLE HANDLING OF DELICATE CROPS

The FC 1060 series can be fitted with two different conditioner rollers: the SQUAREFLEX rubber roller (TLR/TCR) with exclusive design or the DOUBLECRIMP steel roller (TLS/TCS). Both crimp the plants regularly, thus allowing moisture to escape. At the same time the whole process proceeds very gently in order to preserve the nutritional value of delicate crops, such as legumes, but also green rye. Their large diameter of 240 mm makes for a very robust structure, while improving the crop flow. The roller pressure is adjustable from 100 to 500 kg/m according to crop and desired conditioning intensity.

EXCLUSIVE BUILT-IN PROTECTION

The conditioner rotor's drive shaft is protected on its shaft extension by a shear bolt. Should a foreign body pass through the machine, the conditioner is in total safety. This is certainly also true for the mowers with roller conditioners.



FC

1060 TL

1060 TC

QUICK. EFFICIENT. COMFORTABLE.



INCREASED USER COMFORT

Low maintenance requirements, FAST-FIT and easy adjustments are assets, which make the operator's life easier. Because your time during the season is too precious to waste.



CUTTING HEIGHT EASILY ADJUSTED

The cutting height can be set centrally. This is done in little time, so that the machine can be adjusted in every situation quickly and in total ease.



KUHN PLUS A TOUGH HITCH

The heavy-duty GIRODYNE swivel hitch allows turns in excess of 90° while keeping the PTO driveline straight. Maintenance requirements are low with only one oil exchange necessary.

The machine is coupled to the lower tractor links via pins, which are stopped from rotating. This hitch ensures high reliability and safety, while allowing manoeuvres with almost no limits.

GROUP TWO SWATHS AND HARVEST QUICKER



With a 3.10m cut, 2-speed retractable finger conditioner and hydraulically controlled swath shields, the new FC 3160 TLV mower conditioner can deliver two swaths side by side grouping approximately 6.00m of cut crop on a swath width which does not exceed 2.80m. An ideal dimension for 3.00m forage harvester pick-ups as well as an interesting choice for first cuts intended for silage.

A CONTRACTOR AND CO-OP MODEL

There are many benefits: You can significantly save time and overall harvest costs as windrowing is no longer required, but also forage harvester work output is increased. As a result, forage quality is potentially increased, as no foreign bodies or soil are moved into the swath while windrowing. This also reduces the risk of mechanical breakdown due to stones.



DRAWBAR ADAPTS FOR OPTIMUM CUTTING

When operating the swath shields, you automatically alter the drawbar position. This way, the tractor wheels never run over the forage, the machine always works the full cut width and the delivered swath is easier to collect for the pick-up.



ONE FINGERTIPP TO CHANGE DELIVERY MODE

Forage is normally delivered by simply operating a hydraulic valve. In this case as well as on steep slopes, the swath shields are used to optimize swath delivery for increased driving comfort and forage quality preservation.

SWATHING WITHOUT RAKE



The FC 3160/3560 TCD RA models are designed for professional use by contractors, large operations and machinery cooperatives. Due to their rear grouper unit with conveyor belt, they are especially designed for the harvest of whole crop silage, as for example forage rye. At the same time they offer maximum flexibility with different deposit options.

ADAPT DEPOSIT TO HARVESTING MACHINES

The addition of a grouper enables to combine two swaths as soon as two widths have been cut in order to form:

- 1) a twin swath to increase the output of the subsequent silage harvester,
- 2) a narrower, layered swath adapted for the pick-up of your baler or loader wagon.



WIN IN TIME AND FORAGE QUALITY

The addition of the belt conveyor enables to save one pass with the rake later on in the harvesting chain. This also opens a great potential with regards to forage quality:

- no additional leaf losses during raking,
- no incorporation of soil or foreign material in the swath.

KUHN PLUS

FORAGE DELIVERY TO LEFT OR RIGHT

As the belt is positioned in parallel behind the mowing unit the cut crop can both be deposited to the right and left side. In connection with a front mower, this makes it easier for the driver as he can always align the front unit with the uncut forage. It can be lifted, accelerated or decelerated at any moment according to the amount of cut crop or the presence of slopes.



INDEPENDENT HYDRAULIC DRIVE

The conveyor belt is driven by an integrated hydraulic unit, of which the pump is powered by an output on the GYRODINE headstock. This is a real advantage for machinery cooperatives and contractors, as the machine can therefore easily adapt to different tractors. There will never be an issue regarding the availability of a sufficient oil supply by the tractor.

STAY RELAXED IN THE CAB

The mower conditioners can be adjusted in complete comfort, as all functions required to monitor the machine and its grouper are centralized on a control box in the tractor cab. It is available as standard and controls for example belt speed, direction of deposit and lifting options.

SIMPLY GREAT FORAGE!

Did you know that you can save concentrates worth 89 €/ha and year, just by reducing the impurities in the forage from 4 to 2 %*? We are at your side to help you produce forage of top quality to realize according gains.

We would like to pass on our know-how in forage production, gathered during several decades of producing hay/silage making implements.

We provide advice for you to produce first-class animal feed.

We help you to understand the strong points of our machines in order for you to use them in an optimal way to preserve the quality of your forage.

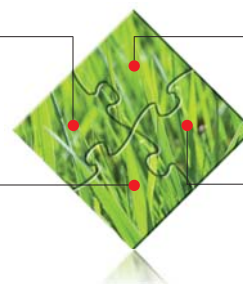
With the KUHN expertise, you will harvest forage with...

Minimum
SPOILAGE

High
**ENERGY AND HIGH
NUTRIENT CONTENT**

Minimum
**LEVEL OF
IMPURITIES**

High
PALATABILITY



*Source: Agricultural chamber Weser-Ems, Germany.



THAT'S WHAT FC USERS ARE SAYING!

Livestock farmers all over the world certainly face different challenges, but have the same objectives for their forage harvest in common. They want to increase their productivity to save money and win in efficiency, and want to harvest at the same time a high-quality crop under all kind of conditions. Moreover, fuel savings and reduced maintenance requirements also came to mind of FC users, when talking about the advantages of their new machine:



M. Perrard, Lorraine, France: "Our machinery cooperative has five FC. We have quickly noticed that the FC 3560 requires around 25 hp less than our other machines. This allows us to use it even with a 100 hp tractor. For three seasons, this machine has mown almost 1000 hectares now. It is also regularly used for hay making, as we avoid one pass with the tedder thanks to the wide spreading option. We have also appreciated the large tyres in the wet conditions this spring, as they left less traces on the soil. The quick-release knife system is very practical, if it is necessary to exchange them on the field. We entrust the maintenance to our worker. A cutter bar without oil change needs is an economical advantage too."



J. Kujala, Southern Ostrobothnia, Finland: «We have used the FC 3160 TCD for 700 hectares last year. The conditions in Finland were extremely challenging because of heavy rain and very wet fields. Still, we were impressed by the low power requirement of the tractor. The extra-wide tyres were also absolutely necessary in the wet conditions. Together with the enhanced suspension of the cutting unit, the cut was accurate and clean!»



S. Brown, Queensland, Australia: "As dairy farmer, we really appreciate this machine for its ability to handle a high volume crop and maintain a reasonable speed, the good quality of conditioning of the crop from the steel rollers and the clean cut of the crop. The overall size of the machine (heavy duty gearbox and cutter bar) is also an argument for it."

Technical specifications

Model	
Working width (m/ft)	
Number of discs with hard coated skids	
Knives fitting	
Disc bearing stations removable from the outside	
Conditioning system	
Conditioner rotor speed (min ⁻¹)	
Conditioner drive	
Swath width, min-max (m/ft)	
Wide spreading system	
Cutting height adjustment	
Suspension adjustment	
Tyres	
Transport width (m/ft)	
Lighting and signalling system	
Attachment	
PTO drive	
PTO speed (min ⁻¹)	
Free wheel	
Min. PTO power requirement	
Tractor hydraulic requirement	
Weight (kg/lbs)	TLD
	TCD
	TLV
	TLR
	TCR

◆ standard ◇ option - not available

Optional equipment: wide angle secondary PTO shaft for TL models - asymmetric swath shields for 3160/3560 TCD – wide spreading kit for FC 3160-4060 TCR/TCS - adjustable high cutting skids.

FC 2860 TL	FC 3160 TC / TL	FC 3160 TLV	FC 3160 TCD RA	FC 3560 TC / TL	FC 3560 TCD RA	FC 4060 TC	FC 4460 TC
side-pull	centre-pivot or side-pull	side-pull	centre-pivot	centre-pivot or side-pull	centre-pivot		
2.67 / 8'9"	3.10 / 10'2"			3.50 / 11'6"		4.00 / 13'1"	4.40 / 14'5"
6	7			8		9	10
FAST-FIT quick release knife system							
◆ (PROTECTADRIVE safety included)							
TLD/TCD/TLV: pivoting steel fingers; TLR/TCR: SQUAREFLEX rubber rollers; TLS/TCS: DOUBLECRIMP steel rollers							
TLD/TCD/TLV: 780 and 1,000 (adjustable by selector lever); TLR/TCR/TLS/TCS: 780							
by gearbox with anti-blocking safety							
0.90 to 1.90 / 2'9" to 6'3"	0.90 to 2.30 / 2'9" to 7'5"	single swath: 0.90 to 1.80 / 2'9" to 5'11"double swath: 2.70 to 2.80 / 8'9" to 9'2"	0.90 to 2.30 / 2'9" to 7'5"	1.10 to 2.70 / 3'6" to 8'9"			
◆ (TLD/TCD); ◇ (TCR/TCS); - (TLR/TLS/TLV)							
centralized by rod, direct indication							
with torsion bar, left and right hand side separately							
11.5 / 80x15.3	400 / 60x15.5 (TC); 380 / 55x17 (TL)	380 / 55x17	400 / 60x15.5	400 / 60x15.5 (TC); 380 / 55x17 (TL)	400 / 60x15.5		4 wheels 11.5 / 80 x 15.3
2.55 / 8'4"	3.00 / 9'10"			3.50 / 11'6"		4.02 / 13'2"	4.45 / 14'7"
◆							
GIRODYNE headstock - 2-point, cat. 2 and 3; Quick-hitch, cat. 2, compatible							
13/8" - 6 splines as standard; 1 3/8" - 21 splines as option							
540	1,000 (TL: 540 as option)	1,000					
integrated in the drive gearbox							
48 / 65	55 / 75		60 / 82	62 / 84	67 / 91	69 / 94	76 / 103
1x SA + 1x DA							
1,980 / 4,365	2,160 / 4,760	-	-	2,280 / 5,025	-	-	-
-	2,390 / 5,270	-	2,890 / 6,370	2,540 / 5,600	3,050 / 6,725	2,680 / 5,910	2,830 / 6,240
-	-	2,160 / 4,760	-	-	-	-	-
2,090 / 4,610	2,260 / 4,980	-	-	2,390 / 5,270	-	-	-
-	2,500 / 5,510	-	-	2,615 / 5,765	-	2,745 / 6,050	2,905 / 6,405

KUHN SERVICES* Maximize the use and productivity of your KUHN equipment

*Not all services and equipment are available in every country.

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.

KUHNi 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.

KUHN
APPS

SMALL PROGRAMS WITH GREAT IMPACT



FOR A POWERFUL FORAGE HARVESTING CHAIN

The forage harvesting chain is only as strong as its weakest link. It's important that all machines do well interlock. In this context, the KUHN ForageXpert app can support you in optimizing your harvest system according to your current equipment. With this tool you can quickly find the mower, mower conditioner, tedder and rake that are best adapted to your existing forage machines. Available on the Apple Store as well as Google Play.



Scan this code
to directly access the
KUHN ForageXpert app.



Check out the whole KUHN range of mowers and mower conditioners!



1. Front disc mowers 2. Horizontal fold disc mowers 3. Vertical fold disc mowers 4. Triple gang disc mowers 5. Front disc mower conditioners 6. Mounted disc mower conditioners 7. Triple gang disc mower conditioners 8. Drum mowers

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Visit us on our YouTube channels.



www.kuhn.com

Your KUHN dealer

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