



FARMFLEX® ROLLERS
PRODUCT CATALOG 2020

AGRONOMIC ROLLERS

HIGH PERFORMANCE EQUIPMENT

DESIGNING, MANUFACTURING AND SELLING ROLLING, SELF-CLEANING AGRONOMIC SOLUTIONS SINCE 1971, FOR FARMING EQUIPMENT ALL OVER THE WORLD !

OTICO PRODUCT RANGE

FARMFLEX® Wheels



FARMFLEX® Rollers



TYRES & WHEELS
Inflatable tires



LOCATION



**CHALMAISON
FACTORY
(FRANCE)**



Ideally located an hour drive **South-East of Paris** in the heart of cereal producing region, the Chalmaison factory employs 150 people for the **design and manufacture** of the **FARMFLEX®** technology pro-

duct range. This site also hosts our **R&D centre** and our **laboratory**, thus streamlining new products development. Our location enables easy prototype-testing in the field via local partner-farmers.

PHILOSOPHY

EXPERIENCED



- ▶ Serving the farming community **since 1971**.
- ▶ **48 years of experience** and a world-renowned craftsmanship.
- ▶ Manufacturing in our own factory **1 hour away from Paris**.
- ▶ A **modern, high-performing industrial** process.

▶ **Factory, headquarters and engineering department** share the same location in France.

▶ Raw materials are exclusively sourced within Europe **to ensure quality control and fast delivery**.

PROACTIVE



HIGH PERFORMANCE INDUSTRIAL IMPLEMENTS



- ▶ A high-capability, flexible **Smart Factory** produces and ships worldwide.
- ▶ **719 000 FARMFLEX® tires and wheels** produced yearly.
- ▶ **70-80 tons of rubber** processed each week.
- ▶ Weekly output : **15 000 wheels and 120-150 rollers**.

▶ A **world-renowned** know-how.

▶ Located on all **5 continents**, through our partnerships with machine manufacturers, distributors and dealerships.

▶ Frequent, **worldwide** deliveries using Air and Ground cargo.

WORLD-RENOWNED



RESEARCH & INNOVATION



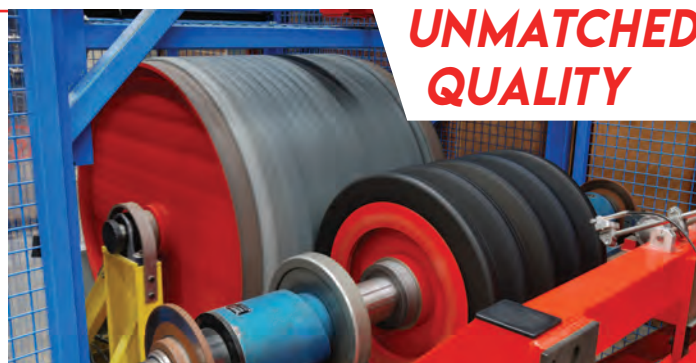
- ▶ **47 International** patents filed.
- ▶ Internal product development thanks to a R&D team of **rubber, machinery and agricultural engineers**.
- ▶ An **internal engineering department and laboratory** focused on developing new products and new technologies.

▶ OTICO develops **PREMIUM rubber** formulations to **fulfill agronomic needs of all climates and continents**.

▶ **Rigorous raw materials** testing.

▶ **Extensive benchmark + in-field testing** and quality control for each new product.

▶ Production **control and traceability**.



UNMATCHED QUALITY

TECHNICAL AND AGRONOMIC EXPERTISE



- ▶ **Terrain configuration study**.
- ▶ **Technical, functional and agronomic** brief.
- ▶ Constant liaison with “pilot” **partner-farmers**.

▶ Developing new types of **partnerships** with agricultural machinery manufacturers.

▶ White label, **exclusive production**.

▶ OTICO collaborates **confidentially** from the earliest stage of a new product development.

▶ **A wealth of experience** acquired on all 5 continents is made available to our clients.

OTICO & EQUIPMENT MANUFACTURERS PARTNERSHIPS



WHY USE AN OTICO ROLLER?

FARMFLEX® CONCEPT

“SELF-CLEANING
BY DESIGN



SELF-CLEANING	Semi-hollow, self-cleaning (on select designs) tires, thanks to the flexibility and bounce of natural rubber, as well as the tires' internal and external design.
RELIABILITY AND STURDINESS	Rubber recipes formulated by OTICO specifically for agricultural use . Resists rough conditions: stones, flints, UV rays, intense daylight. No puncture, no maintenance.
SHOCK- AND VIBRATIONS-ABSORPTION	OTICO's exclusive rubber acts as a "shock absorber" to reduce impact on the roller's ball-bearings, frame and on the equipment overall.
NUMEROUS PROFILES AND DIAMETERS	Vast range of rollers offering diverse ... (shapes, diameters, tire profiles) designed for specific agronomic uses: packing, sorting, depth-control, self-cleaning,....
POLYVALENT	<ul style="list-style-type: none"> ➤ Light/sandy soils: excellent lift capacity thanks to a large contact area with the ground, which reduces traction strain. ➤ Clay/ wet soils : FARMFLEX® rollers are self-cleaning thanks to their high-quality, flexible rubber. ➤ Compacted soils : track marks imprinted by the roller profiles greatly reduces erosion and capping.
COMPLETELY SEALED ROLLER	Prevents any dirt particle , stone or organic matter from getting inside the roller.
ADAPTIVE	<p>Retrofits all current industry implements, including:</p> <div> <div>Power Harrow</div> <div>Tillage</div> <div>Front packer</div> <div>Tine seeder</div> </div>

FUNCTIONS AND AGRONOMY

“**EXPERTISE
BY OTICO**”

PACKING	<p>...the right depth... for a perfect seedbed!</p> <ul style="list-style-type: none"> ➤ Improves seed/soil contact : seeds get the moisture they need for optimal sprouting. ➤ Enables water infiltration from subsoil to top soil (seedbed). ➤ Packing targeted to furrow depth leaves rough pieces of dirt (clods) loose, which prevents water from evaporating and protects soil from eroding, thereby limiting capping. ➤ Output : targeted packing using Otico rollers guarantees a quick and homogenous sprouting!
FURROW-SHAPED PACKING	<ul style="list-style-type: none"> ➤ Channels water to subsoil and eliminates surface water run-off. ➤ Protects soil from wind erosion in windswept areas.
DEPTH CONTROL	<p>Our roller lets you precisely control depth for seeding, tillage and more.</p>
SOIL REFINEMENT	<p>Thanks to its profile design and the pressure it applies to the ground, the roller flattens clods and loosens the soil to enable better seed/soil contact (guaranteeing good germination) and better rooting, which improves overall culture development and profitability.</p>
LEVELLING	<ul style="list-style-type: none"> ➤ The roller's levelling action facilitates sowing and seed drill maneuvering. ➤ Boosts sowing speed. ➤ Improves harvest for some cultures (peas,...) and increases the efficiency of phytosanitary treatments.



« **YOU ARE
MAKING THE
RIGHT CHOICE
WITH OTICO** »

FURROWING PROFILE / TARGETED PACKING USING OTICO ROLLERS GUARANTEES A QUICK AND HOMOGENOUS SPROUTING!"

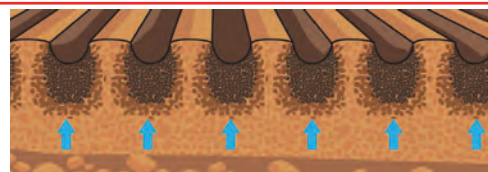
- Tamps and refines both the bottom of the seedbed and the sowing row.
- Prevents rainfall erosion: the profile channels water and forces it into the ground (blocks surface runoff)
- Prevents wind erosion.
- Stubble ploughing, preparation, sowing,...

FURROWING



- Furrow-shaped, intense packing

Available diameters (mm) : 420 / 500 / 550 / 590* / 810

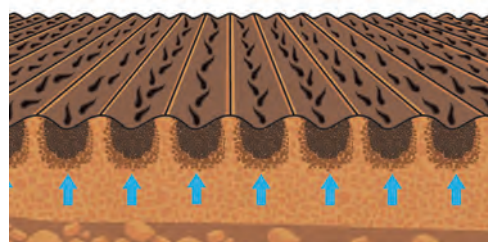


"WAVE" FURROWER



- Shallow furrows, intense packing
- Benefit: shallow furrows with more spacing improves self-cleaning!

Available diameters (mm) : 545 / 620 / 750

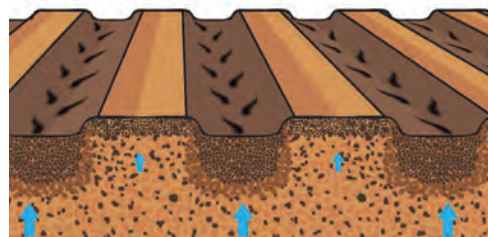


GREEN BOOSTER PROFILE / PACKING + BLENDING



- Packing at the bottom of the seedbed
- Fertilisation and blending of residual matter improves decay
- No smoothing, no risk of capping (clumps and plant residues protect the soil).
- Excels in any conditions:
 - Very flexible tires, hence very self-cleaning
 - Large space between tires

Available diameter (mm) : 585



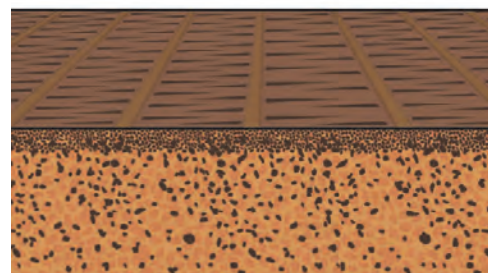
SURFACE PACKING

FLAT & FLEXIBLE PROFILES / OPTIMAL SELF-CLEANING



- Clean + **technology**: maximum flexibility and self-cleaning
- Works even with deep, wet clay
- Homogenous surface packing on the whole width of the implement
- Ground packing in any conditions
- Optimum drive even with light / sandy soils
- Cleats reduce capping
- Excellent lift even with a small diameter

Available diameters (mm) : 310 / 387 / 540 * / 700



* Several diameters available

FARMFLEX[®]

ROLLERS CONCEPTS

PATENTED
CONCEPTS

CLASSIC

- Rubber tires mounted on a steel tube
- Time-tested for 30 years by OTICO
- Flawless reliability
- Numerous diameters and profiles



ROLL X

- Rubber tires separated by polymer spacers, both mounted on a steel tube
- Weight reduction: useful for carried implements
- 1 profile available



Green booster

- Self-cleaning tires mounted on independent steel flanges
- Packing achieved by steel pads between tires








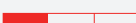


Clean+ TECHNOLOGIE BY OTICO

OTICO HAS BEEN DEVELOPING RUBBER ROLLERS FOR MACHINERY FOR OVER 30 YEARS. SOME OF THESE ROLLERS ARE CONCEIVED TO BE SELF-CLEANING, THEREBY ELIMINATING THE NEED FOR SCRAPERS. THAT'S THE **CLEAN+** TECHNOLOGY.


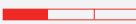



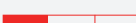




FURROWING PROFILE

Profile view	Code name	Ø (mm)	Concept	Standard inter-row spacing (mm)	Other inter-row spacing (mm)	Self-cleaning
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SMOOTH PROFILE

	LTX	420	Classic	125	-	
	LTX	500	Classic	125	143 150	
	LTX	586	Classic	125	-	
	LTX	800	Classic	125	-	

SCULPTED PROFILE

	LSTX	550	Classic	125	-	
	LSTX	590	Classic	125	143 150	
	LSTXE	593	Roll X	125	143 150	
	LSTX	810	Classic	125	-	
	LWSTX	540	Classic	62,5	-	

BEST SELLER

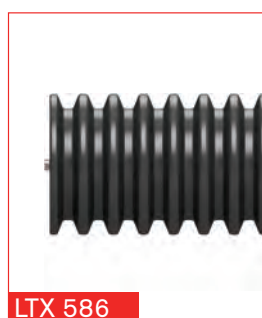
NEW



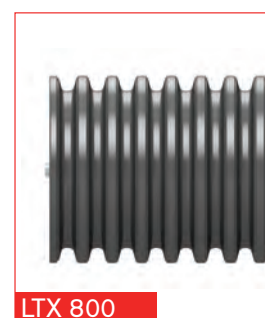
LTX 420



LTX 500



LTX 586



LTX 800



LSTX 550



LSTX 590



LSTXE 593



LSTX 810



LWSTX 540


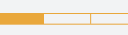




BEST SELLER

NEW

“ INTENSE PACKING! FAST AND HOMOGENOUS SPROUTING



WAVE FURROWING PROFILE

Profile view	Code name	Ø (mm)	Concept	Standard inter-row spacing (mm)	Other inter-row spacing (mm)	Self-cleaning
	LCTXL	545	Classic	125	145 150	
	LCTX	620	Classic	167	-	
	LCTX	750	Classic	125	150	

BEST SELLER

NEW

Nb: rollers can be delivered with a frame and/or a scrapers ramp (see page 16)



GREENBOOSTER PROFILE

Code name	Ø (mm)	Concept	Standard inter-row spacing (mm)	Self-cleaning
 GREENBOOSTER	585	<i>Green booster</i>	200	

ISSUED FROM THE COMBINATION OF THE BEST TECHNOLOGIES



- ① Stubble-ploughed soil not rammed with clods on the surface
- ② Beginning of packing by the tires. The tires buckle under the action of the soil pressure.
- ③ Double action of the spring pad : It breaks the clods & It packs the soil between the tires. The tire packs the soil in several directions and uniformly.
- ④ The tire recaptures its initial shape which disengages all the earth from its circumference.
- ⑤ The soil is perfectly packed at a good depth and uniformly. The soil is perfectly levelled.
- ⑥ The weeds grow very quickly thanks to the perfect contact soil/seed.

ULTRA FLEXIBLE FARMFLEX® RUBBER STRUCTURE

- Soil doesn't stick. No need for scrapers
- No risk of rocks getting stuck
- No soil accumulation keeps the weight down
- Minimal weight bearing on the tractor

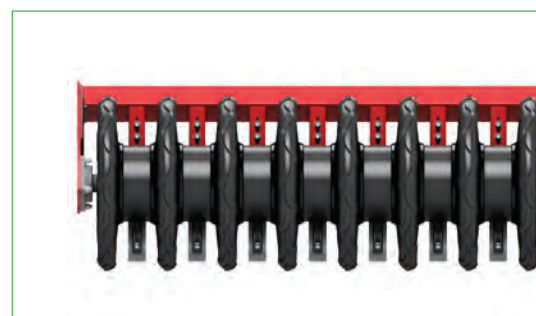
ULTRA LIGHT CONCEPT

suitable for carried implements

WATER CLIMBS BY CAPILLARITY

ACCELERATED SPROUTING













Weeds (stale seed bed) / Vegetation cover



GREENBOOSTER



FLAT PROFILE

Profile view	Code name	Ø (mm)	Concept	Standard tire width (mm)	Self-cleaning
	CT	310	Classic	160	
	CTX	387	Classic	250	
	CTX	530	Classic	250	
	CRTX	540	Classic	250	
	CTX	544	Classic	150	
	CTX	700	Classic	250	

NEW
BEST SELLER

Nb: rollers can be delivered with a frame and/or a scrapers ramp (see page 16)



BEST SELLER

NEW

“ **FLAT PROFILE: INFINITE CHOICE OF ASSEMBLIES AND USES** ”

TINE SEEDER



TINE SEEDER



MEADOW HARROW



EQUESTRIAN HARROW



SOWING FRONT PACKER



FRONT PACKER



POTATO MILLING CUTTER



FRONT PACKER (POWER HARROW)



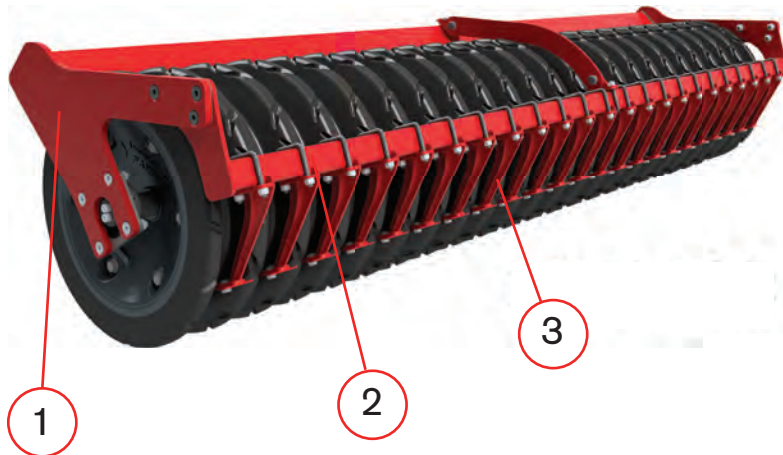


**PERFECT LEVELLING:
HOMOGENOUS SURFACE PACKING**

FRAME AND SCRAPERS OPTIONS

EASILY AND QUICKLY MOUNTED ON NEW MACHINE OR RETROFITTED!

All OTICO rollers can be delivered with a frame and/or a scrapers ramp.



- Easy to install or adapt to existing implement
- Delivered assembled on a frame with scrapers
- Robust design
- Hardox® steel scrapers customized for the tire profiles to ensure optimal efficiency
- High performance NTM® bearing
- RAL3002 red colour
- 4 options:
 - complete implement ①+②+③
 - frame only ①
 - scrapers ramp equipped ②+③
 - scrapers support ③

TESTED AND APPROVED IN REAL CONDITIONS!

All our rollers are tested on a **dynamic benchmark against precise specifications**. Our technical and agronomic department then tests them **in the field to ensure proper performance and functionality** for each new design.

DYNAMIC TEST RIG



IN-FIELD TEST

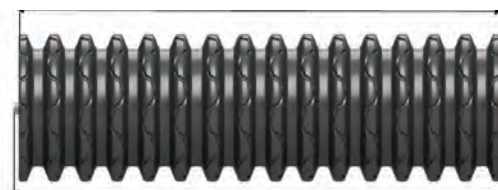


STANDARD ROLLERS LENGTHS

(others lengths available upon request)

		2m	2,5m	3m	3,5m	4m	Other lengths
	# Furrows	16	20	24	28	32	
LTX 420	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 948	2 448	2 948	3 448	3 948	
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	Weight * (kg)	177	215	254	292	330	
LTX 500	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 948	2 448	2 948	3 448	3 948	
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	Weight * (kg)	234	285	337	389	440	
LTX 586	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 948	2 448	2 948	3 448	3 948	
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	Weight * (kg)	308	376	444	510	578	
LTX 800	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 943	2 443	2 943	3 443	3 943	
	Z (mm)	1 990	2 490	2 990	3 490	3 990	
	Weight * (kg)	519	632	745	859	972	
LSTX 550	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 948	2 448	2 948	3 448	3 948	
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	Weight * (kg)	246	297	348	400	451	
LSTX 590	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 948	2 448	2 948	3 448	3 948	
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	Weight * (kg)	308	376	444	510	578	
LSTXE 593	L (mm)	1 913	2 413	2 913	3 413	3 913	+/- 125 mm
	Y (mm)	1 948	2 448	2 948	3 448	3 948	
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	Weight * (kg)	268	325	383	438	495	
LSTX 810	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 943	2 443	2 943	3 443	3 943	
	Z (mm)	1 990	2 490	2 990	3 490	3 990	
	Weight * (kg)	533	650	767	885	1 002	
LWSTX 540	L (mm)	2 024	2 524	3 024	3 524	4 024	+/- 125 mm
	Y (mm)	2 067	2 567	3 067	3 567	4 067	
	Z (mm)	2 099	2 599	3 099	3 599	4 099	
	Weight * (kg)	294	357	420	482	545	

L : roller length



Y : length with shafts

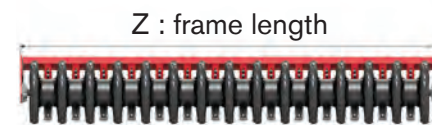
Z : frame length



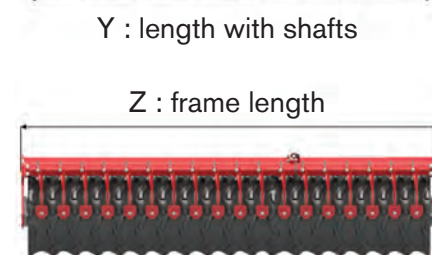
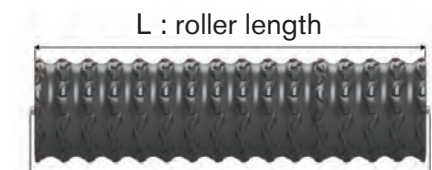
* weight roller only (excluding frame and ramp)

TECHNICAL DATA

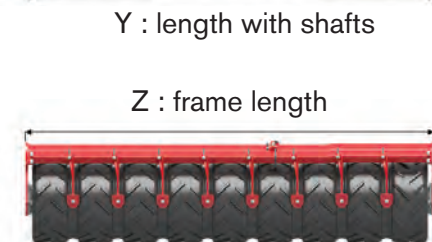
		2m	2,5m	3m	3,5m	4m	Other lengths
<i>Green booster</i>	Z (mm)	2 005	2 605	3 005	3 605	4 005	+/- 200 mm
	Weight * (kg)	288	350	456	474	536	



		2m	2,5m	3m	3,5m	4m	Other lengths
LCTXL 545	L (mm)	1 905	2 405	2 905	3 405	3 905	
	Y (mm)	1 948	2 448	2 948	3 448	3 948	+/- 125 mm
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	# Furrows	16	20	24	28	32	
	Weight * (kg)	268	325	379	439	491	
LCTX 620	L (mm)	1 905	2 405	2 905	3 405	3 905	
	Y (mm)	1 948	2 448	2 948	3 448	3 948	+/- 167 mm
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	# Furrows	12	15	18	21	24	
	Weight * (kg)	312	379	441	512	574	
LCTX 750	L (mm)	1 905	2 405	2 905	3 405	3 905	+/- 125 mm
	Y (mm)	1 948	2 448	2 948	3 448	3 948	
	Z (mm)	1 980	2 480	2 980	3 480	3 980	
	# Furrows	16	20	24	28	32	
	Weight * (kg)	446	540	635	729	824	



		2m	2,5m	3m	3,5m	4m	Other lengths
CT 310	L (mm)	1 940	2 420	2 900	3 540	4 020	
	Y (mm)	1 987	2 467	2 947	3 587	4 067	+/- 160 mm
	Z (mm)	2 066	2 499	2 979	3 619	4 099	
	Weight * (kg)	100	119	139	164	183	
CTX 387	L (mm)	2 000	2 500	3 000	3 500	4 000	+/- 250 mm
	Y (mm)	2 043	2 543	3 043	3 543	4 043	
	Z (mm)	2 099	2 599	3 099	3 599	4 099	
	Weight * (kg)	155	185	217	247	277	
CTX 530	L (mm)	1 958	2 458	2 958	3 458	3 958	+/- 250 mm
	Y (mm)	2 001	2 501	3 001	3 501	4 001	
	Z (mm)	2 033	2 533	3 033	3 533	4 033	
	Weight * (kg)	227	273	321	382	436	
CRTX 540	L (mm)	1 958	2 458	2 958	3 458	3 958	+/- 250 mm
	Y (mm)	2 001	2 501	3 001	3 501	4 001	
	Z (mm)	2 033	2 533	3 033	3 533	4 033	
	Weight * (kg)	227	273	321	382	436	
CTX 544	L (mm)	2 005	2 455	2 905	3 505	3 955	+/- 150 mm
	Y (mm)	2 048	2 498	2 948	3 548	3 998	
	Z (mm)	2 080	2 530	2 980	3 580	4 030	
	Weight * (kg)	259	314	376	443	502	
CTX 700	L (mm)	1 982	2 482	2 982	3 482	3 982	+/- 250 mm
	Y (mm)	2 020	2 520	3 020	3 520	4 020	
	Z (mm)	2 067	2 567	3 067	3 567	4 067	
	Weight * (kg)	409	492	575	659	742	



* weight roller only (excluding frame and ramp)

OTICO EXCLUSIVE RANGE

OVER THE PAST 20 YEARS, OTICO HAS DEVELOPED NUMEROUS EXCLUSIVE ROLLERS FOR MACHINERY MANUFACTURERS. A FEW EXAMPLES:

MATRIX - AMAZONE



The Matrix roller can be installed both on seeding combinations and on mounted disc harrow such as the Catros. This roller is now available in a notched version to improve crumbling.



RUBBER ROLLER -



With a 550mm diameter, the exclusive Väderstad "Rubber Roller" features an undulating profile which performs in all conditions and terrains. This roller is used with disc harrow implements (Carrier).



PACKLINER -



The "Packliner Kuhn" is an exclusive roller equipped with a 592 mm diameter, smooth furrowing profile. It differs from the LTX 586 profile with its more slanting design. This roller is ideal for seeding combinations (HR, Venta,...) as well as mounted disc harrows and tine harrows.



RIPA-ROLLER - RABE



The rubber "Ripa-roller" is exclusive to Rabe GmbH. It boasts a furrowing profile with notched edges. This roller is usually mounted on Fieldbird disc harrows.



STONEBURIER - KONGSKILDE



Armed with a 415 mm diameter CTX profile, the exclusive Howard roller is fitted to the "STONEBURIER" to prepare market gardening and mounded rows cultivation (onions, carrots,...).



“MANUFACTURERS: DESIGN YOUR OWN ROLLER TO FULFILL YOUR TECHNICAL AND AGRONOMIC NEEDS!”



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