

CUTTING ROLLERS

BEDNAR

DURACUT TE

Multi-purpose cutting rollers



JOY OF FARMING



DURACUT TE 12400

Why DURACUT TE?



„The DURACUT TE is a specially designed trailed roller designed based on the requirements of customers looking for a fast, low-cost and efficient solution for processing post-harvest residues. It is a machine that offers interesting applications for farmers practicing new farming methods such as regenerative agriculture. The DURACUT TE greatly improves the efficiency of handling plant material and post-harvest residues. It is a versatile machine that can be used also with a smooth roller for a wide range of operations in addition to standard post-harvest residue processing.“

Jan Bednář

The BEDNAR DURACUT TE is a heavy cutting roller designed especially for processing the toughest crop residues (e.g. after grain maize, winter oilseed rape or sunflower), for starting the growth of weeds or for mechanical pest control. DURACUT TE is available in working widths of 7.5 and 12.5 metres.

This is an interesting technological solution for large farms that want to optimize productivity in the mechanical disposal of post-harvest residues or row crops.

DURACUT TE does not only serve to shorten plant residues. Thanks to the large diameter of the roller and the specially shaped blades made of high-strength HARDOX steel, the DURACUT TE also allows shallow incorporation of plant residues into the soil in one pass.

This operation contributes to faster decomposition of post-harvest residues and efficient use of nutrients.

The possibility of replacing the cutting rollers with smooth ones increases the potential of using the DURACUT TE throughout the year.



DURACUT TE 12400

Why DURACUT TE?

TECHNICAL ADVANTAGES

- The robust centre frame in combination with the side frames increases the rigidity and strength of the entire machine and allows working at a maximum working speed of 20 km/h.
- The aggressive positioning of the knives on the roller in a spiral (V-shape) significantly increases the cutting effect.
- The welded and replaceable blades are made of high-strength HARDOX steel, which guarantees maximum durability and minimum wear.
- Possibility to fill the rollers with water to increase the pressure and the cutting effect (pressure up to 1,240 kg/m, DURACUT TE 12400 with replaceable knives).
- Independent suspension of the individual rollers to the support frame for excellent terraing contouring.
- High stability during transport thanks to the 700/40-22.5 wide-profile tyres.
- Compact transport dimensions— max. width 3 m, max. height 4 m.

AGRONOMIC ADVANTAGES

- Efficient disposal and quality cutting of post-harvest residues, especially after harvesting corn, sunflower, winter oilseed rape, sorghum or cotton.
- Quality cutting of green manure and row crops leads to improved nitrogen fixation in the soil.
- Shallow tillage to incorporate post-harvest residues and start germination of the weed in one pass contributes significantly to saving PHM and eliminates the cost of chemical treatments on the land.
- Mechanical elimination of pests such as the corn earworm, elimination of overwintering conditions, elimination of yield losses.
- Elimination of the risk of machine clogging during subsequent working operations as soil tillage or seeding.
- Rolling the land after seeding leads to better seed to soil contact and reduced soil moisture evaporation.
- Maintaining permanent grassland after winter and levelling the land surface reduces the risk of damage to forage and hay harvesting machinery.

VARIABILITY OF USE AND NEW AGRONOMIC POSSIBILITIES



DEMONSTRATION OF MAIZE POST-HARVEST PROCESSING

Working speed: 20 km/h
Fuel consumption: 2.8 l/ha
Average output: 22 ha/h



DEMONSTRATION OF WINTER OILSEED RAPE POST-HARVEST PROCESSING

Working speed: 16 km/h
Fuel consumption: 2.8 l/ha
Average output: 20 ha/h



DEMONSTRATION OF SUNFLOWER POST-HARVEST PROCESSING

Working speed: 20 km/h
Fuel consumption: 2.4 l/ha
Average output: 20 ha/h



DEMONSTRATION OF ROW CROPS POST-HARVEST PROCESSING

Working speed: 18 km/h
Fuel consumption: 3.4 l/ha
Average output: 19 ha/h



Important working tools



THE SMOOTH ROLLER

The DURACUT TE is equipped with smooth rollers with a diameter of 914 mm. The rollers are made of highly resistant material to damage and abrasion. The rollers can be filled with water to increase the consolidation effect.



CUTTING ROLLER – FIXED BLADES

Fixed knives are welded on the roller. The aggressive positioning of the knives in a spiral (in a „V“) significantly increases the cutting effect. The rollers can be filled with water to increase the cutting effect. The weight is then up to 1,144 kg/m. The blades are made of HARDOX steel (the most renowned high-strength steel).



CUTTING ROLLER – REPLACEABLE BLADES

The cutting roller with interchangeable knives is the solution for the most demanding conditions. The individual knives are screwed onto the roller. In case of damage, the individual knives can be easily replaced. The interchangeable knives are made of high-strength HARDOX steel. In case of filling this type of rollers with water, their maximum weight is 1,240 kg/m.



The individual rollers designs are highly reinforced for maximum durability and the rollers are fitted with breakwaters to reduce the force acting on the walls in the event of water filling.



↓ ↓ 968 kg/m / 1240 kg/m ↓ ↓

POSSIBILITY OF FILLING THE ROLLERS WITH WATER

On the sides there is a hole through which the individual rollers can be filled with water. The interesting technical design helps to significantly increase the working effect of the rollers when working on heavy soils, in dry conditions or when processing tough post-harvest residues.

FOLDING AND UNFOLDING SYSTEM

The DURACUT TE uses the proven concept of folding and unfolding the machine into an „E“ (centre frame and two side folding frames). This concept offers quick and easy folding of the machine from/to the transport position, which can be done without leaving the tractor cab. In addition, the 700/40-22.5 wide profile tyres ensure high stability of the machine during transport. The high ground clearance allows safe machine access, for example on dirt roads.

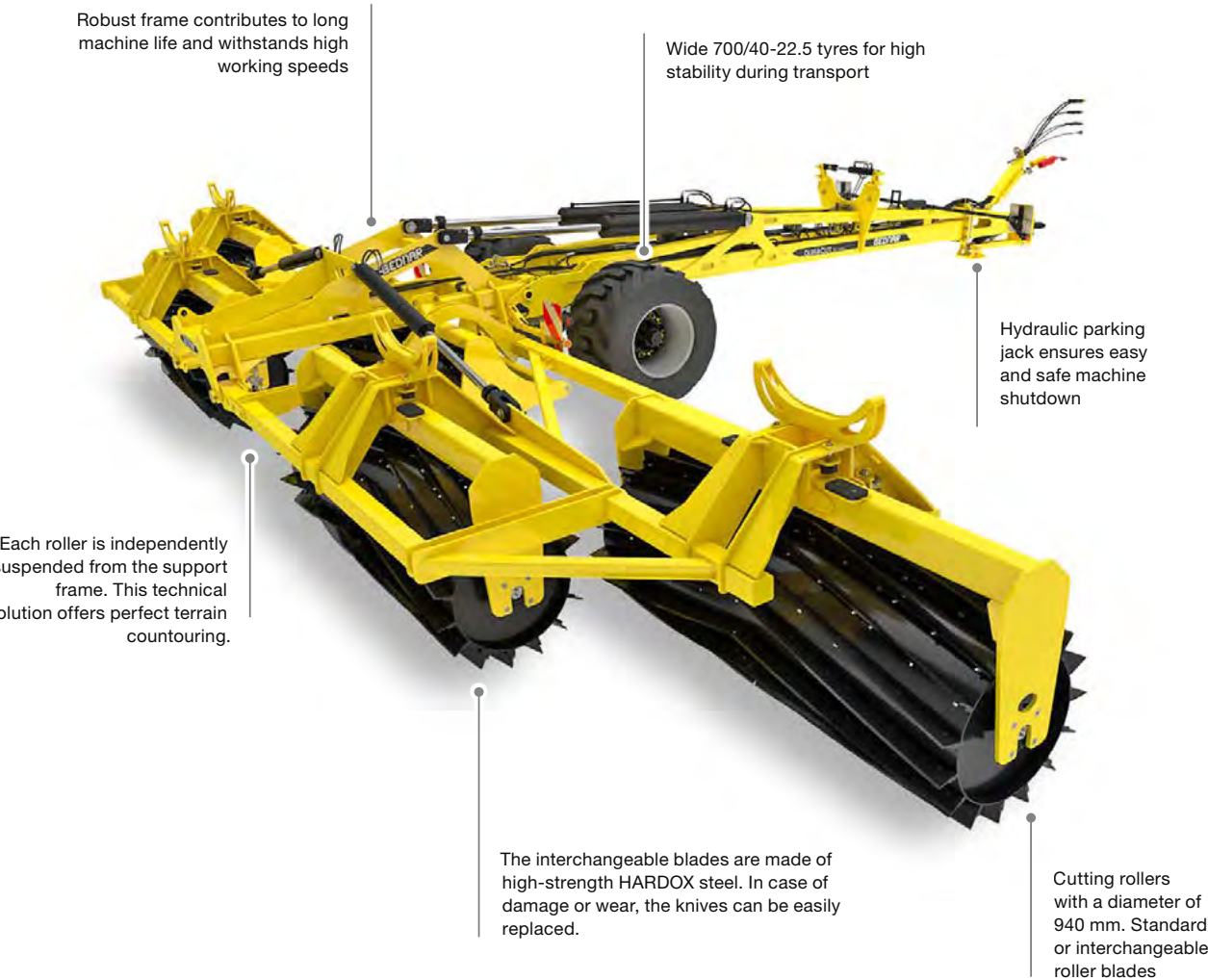


EXCELLENT TERRAIN CONTOURING

Each roller is independently suspended from the support frame. This technical solution ensures ideal terrain contouring, even when working on uneven surfaces. In addition, the individual rollers are positioned so that they overlap by only a few centimetres. This ensures quality workmanship throughout the entire machine.

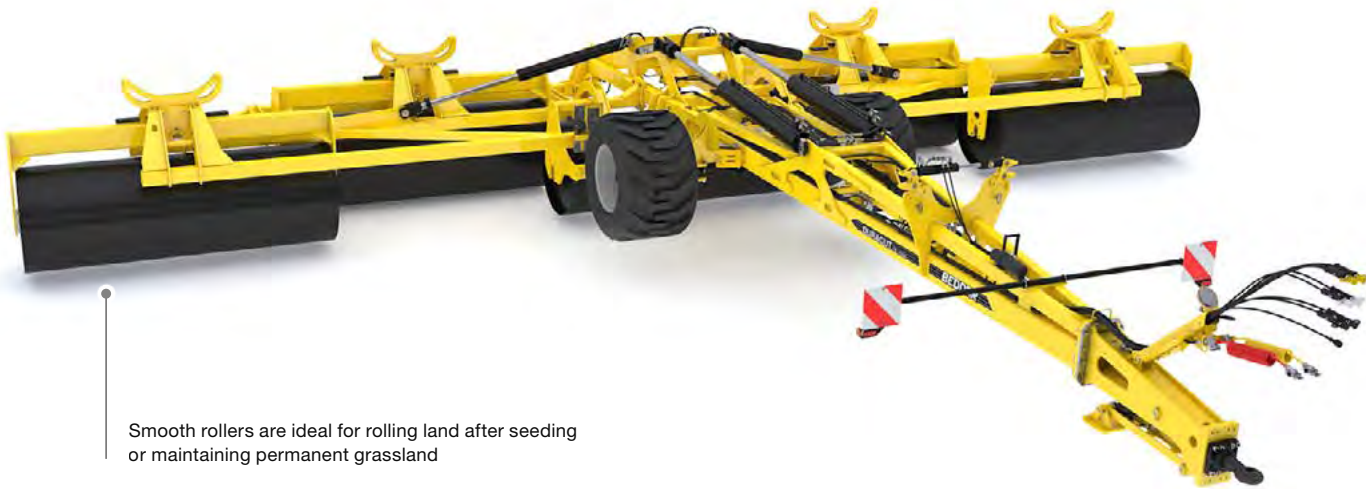


Important working tools



DURACUT TE is a trailed roller manufactured in working widths of 7.5 (three roller sections) and 12.5 m (five roller sections). The basis of the machine is a robust frame prepared for high loads and deployment at high working speeds. Two side folding frames contribute to the reduction in the number of hydraulic cylinders and lubrication points. During operation, the entire weight of the machine and the water in the rollers acts on the cutting blades or the cylinder itself to guarantee maximum working effect.

Depending on the design, the DURACUT TE is equipped with roller with a diameter of 914 mm (smooth) or 940 mm (cutting). The rollers work on a 60 mm diameter shaft and include highly durable, single row, maintenance-free ball bearings with oil filling from FKL.



DURACUT TE

		TE 7500	TE 12400
Working width	m	7.5	12.5
Transport length	m	5.1	8.4
Transport height	m	3	3.6
Number of rollers	pcs	3	5
Roller diameter — cutting	mm	940	940
Roller diameter — smooth	mm	914	914
Power demand*	HP	150–250	150–250
Rozměr transportních pneumatik		700/40-22.5	700/40-22.5
Max. total weight — without water / with water (standard blades)	kg	6,800 / 8,700	10,900 / 14,300
Max. total weight — without water / with water (replaceable blades)	kg	7,400 / 9,300	12,100 / 15,500
Max. total weight — without water / with water (smooth rollers)	kg	6,500 / 9,130	11,070 / 15,470

* according to machine equipment

I did my best for maximum yield this year

Tillage



SWIFTERDISC
Compact Disc Harrows



ATLAS
Compact Disc Harrows



FENIX
Arm Cultivators



VERSATILL
Arm Cultivators



SWIFTER
Seedbed Cultivators



KATOR
Power Harrows



TERRALAND
Chisel Ploughs



ACTROS
Combination Cultivators



GALAXY
Rollers

Seeding and Fertilising



OMEGA
Seed Drills



MATADOR
Strip-till Seed Drills



DIRECTO
No-till Seed Drills



FERTI-BOX
Hoppers for Fertiliser

Row Crop Cultivation / Strip Tillage Mulching



ROW-MASTER
Row Crop Cultivators



STRIP-MASTER
Strip-Till Cultivators



STRIEGEL-PRO
Straw Harrows



MULCHER
Rotary Mowers

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