



The sugarcane and energy sector is facing one of its greatest challenges: **producing more, with lower costs and greater efficiency**. It was in this context that a technique emerged in the Northeast of Brazil that is transforming sugarcane management and rapidly gaining ground throughout the country. Developed by Edilson Maia, **the Sugarcane Scalpel** proposes a change in mindset: **instead of reforming, regenerating**.

WHAT IS THE SUGARCANE SCALPEL?

A localized intervention technique in established sugarcane rows, acting directly on the main factors that limit sugarcane productivity. Through the opening of deep and precise slits in the crop row, the system allows:

- Targeted application of nutrients
- Correction of stand failures
- Recovery of crop health

All this without the need for total area renovation.

HOW IT WORKS IN PRACTICE

The technique consists of opening narrow, deep furrows (approx. 45 cm) where the following are inserted:

- Fertilizers
- Pesticides (insecticides and fungicides)
- Sugarcane cuttings to correct gaps

This intervention promotes a strategic reconstruction of the sugarcane field, acting exactly where the plant needs it.

4 PILLARS

The Sugarcane Scalpel acts directly on the fundamentals that support high crop performance:

- 1. Moisture**
Improves water retention and utilization in the soil
- 2. Density**
Re-establishes the ideal plant stand per hectare
- 3. Nutrition**
Delivers inputs precisely and efficiently
- 4. Health**
Creates conditions to reduce pests and diseases

RESULTS THAT TRANSFORM THE OPERATION

- **Regeneration of ratoons**, prolonging the useful life of the sugarcane field
- **Reduction of operational costs**, avoiding replanting and replanting
- **Increased productivity per hectare**
- **Less soil disturbance**, with gains in sustainability
- **Rapid correction of failures**, maintaining the productive potential of the area

Technical specifications

	1linha/dupla	2 linhas
Required lifting capacity	2125 kg	3500 Kg
Maximum disc depth	250 mm	
Maximum blade depth	450 mm	
Blade width	1" ou 1.1/4"	
Solid capacity 1	1x320 kg	1x1000 kg
Liquid capacity 1	1x350 l	1x350 l
Solid capacity 2	-	1x250 kg
Liquid capacity 2	-	1x350 l
Hydraulic flow rate	40 l/min	55 l/min
Number of VCRs	2 un.	2 un.
Aptitude NR12	Sim	
Blade disengagement	5/8" Fuse Pin	
Hitch category	2	3
Minimum tractor power	100 hp	180 hp
Solid rate	80 a 300 kg/ha	
Liquid rate	50 a 300 l/ha	
Working speed	4 a 7 km/h	

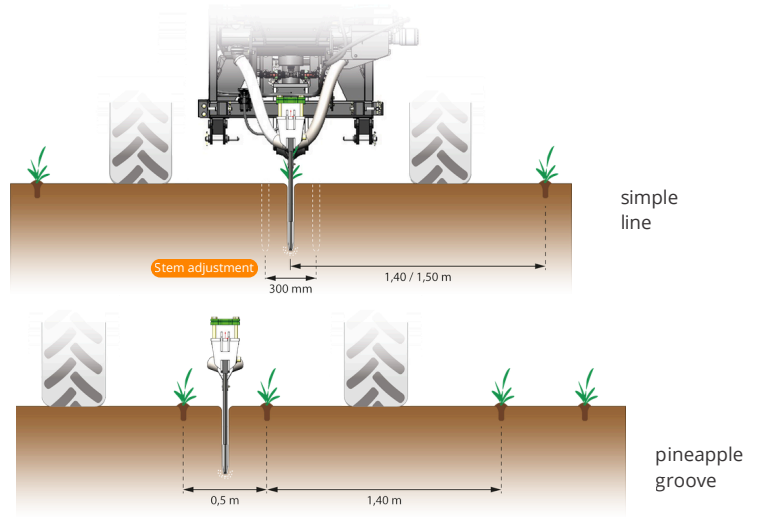
*Check out other spacing and power options.

*Optional nozzles

1 line Bisturi



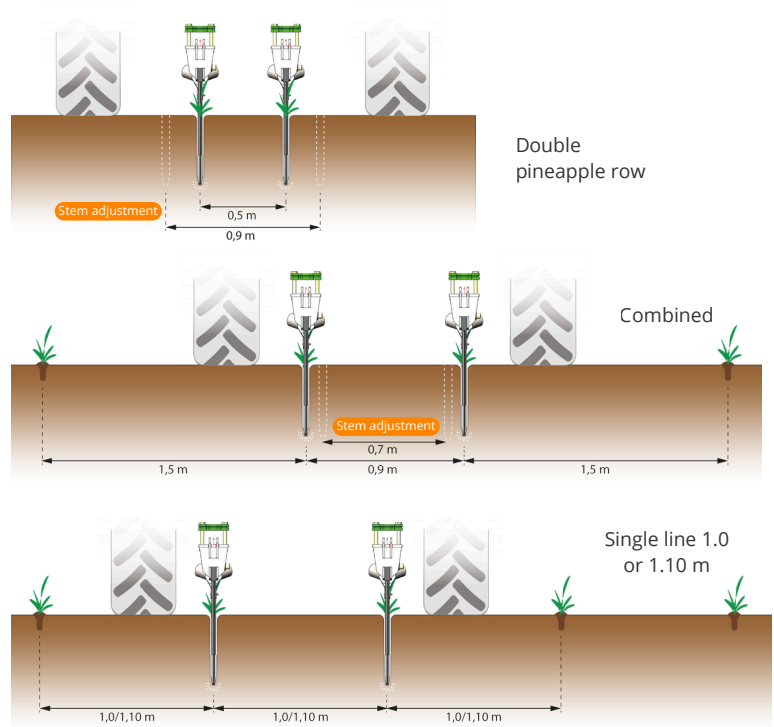
Weight: 585 kg
Dimensions: 1.7 x 2 x 2.8 m



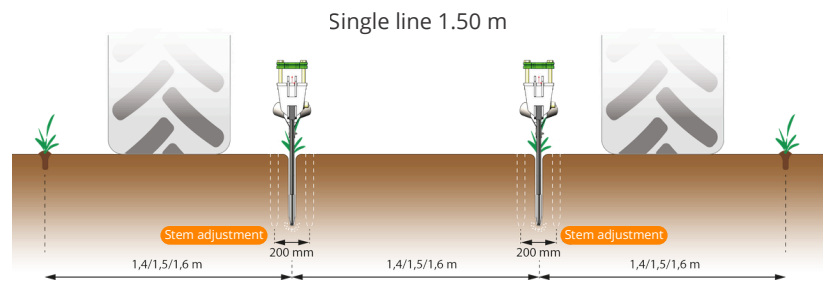
Double-line Bisturi



Weight: 680 kg
Dimensions: 2.2 x 2 x 2.8 m

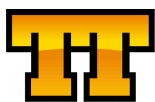


2-line Bisturi



Weight: 940 kg
Dimensions: 2.3 x 3 x 2.9 m

*tractor with wide track



Engaging together

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