

Edward

Mechanical pruning



Specially equipped for fruit tree pruning with the latest technology!

- Unobstructed forward view
- Ergonomics and intuitive operation via app and finger joystick
- Speeds of up to 8 km/h
- Optional horizontal cutter bar
- Optional sub-section beams
- Automatic pivoting of the horizontal cutting bar when approaching posts for hail protection nets on the **Edward comfort**
- **Edward comfort** requires an oil circuit with about 45 liters of oil only
- **Edward** can be combined with **EdDa** thinning and **RED**pulse defoliation unit in a few simple steps

Edward

Mechanical pruning

AGRO *selection*

From mechanical thinning
to mechanical fruit tree pruning:

Innovations in fruit-growing technology

Your best choice in modern techniques



Fruit Tec GmbH has been known for **Darwin** mechanical flower thinning for many years. Mechanical fruit tree pruning is becoming more and more important to reduce cost of production.

In order to find the ideal editing system, there have been many years of trials all over Europe. With the- se, it was also found that the pruning time and shape play a decisive role for a good result.

Many pruning machines on the market have their origin in viticulture and are therefore not really tailo- red to fruit growing. That is why we have set ourselves the task of developing a pruning machine espe- cially for fruit growing that is robust and at the same time very easy and comfortable to use.

This is how the **Edward** series was created on the basis of many years of experience with the **Darwin** and in constructive dialogue with our customers.

The use of **Edward**, **RED**pulse and **Darwin** is the ideal combination for reducing labor costs and increa- sing yield and fruit quality.

Due to good exposure of the fruits, there is a more even coloring and at least one picking pass is saved during the harvest. Furthermore, the good accessibility of the fruit increases the harvesting performance considerably.

After testing several cutting systems, we decided on the ESM double knife system and the rotating sys- tem. Through further technical development of the knife blades, circular saw blades and fly cutters, we can ensure the quality of the cut is suitable for every tree shape and for every pruning concept.

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Three versions of the Edward -
suitable for every job

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Edward *standard*

The *standard* version does not have its own control system - all functions are operated via the tractor's control units. A pressure connection with 45 l/min and an unpressurized return line are required on the tractor. In addition, 3-5 double-acting control units (depending on the accessories) are required. Automatic swiveling out of the horizontal cutting bar in the case of posts for hail protection nets and operation of the leaf removal unit is not possible with this version.

Edward *comfort*

The *comfort* version is equipped with a technically sophisticated hydraulic control block and an electronic control unit. All functions are controlled centrally from the driver's seat using an ergonomic finger joystick and an Android app.

The oil is supplied via a pressure connection with 45 l/min and 1 unpressurized return line on the tractor. No additional control units are necessary.

Edward *N*

The *N* version (narrow) combines all the functions of the *comfort* version in a compact design for narrow rows.



The hydraulic comfort connection only requires a pressure connection and a pressure-free return. There are no extra controllers required.



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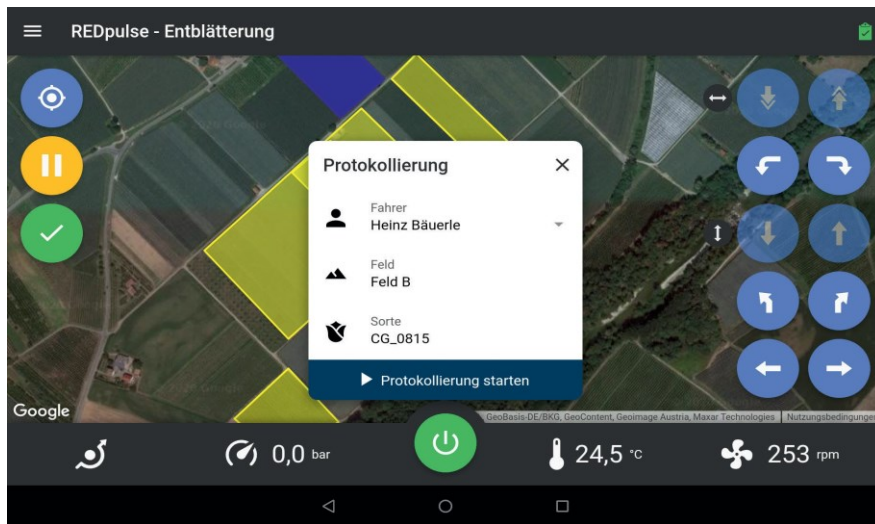
Ergonomics and intuitive operation -
via app and finger joystick

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Operation and monitoring of all basic and attachments via Android smartphone / tablet with the free Fruit Tec app:

- All functions can be conveniently operated with one hand using the handheld joystick and app
- All joystick functions freely configurable
- The emergency stop button with USB charging function is freely positioned on the cabin window using the strong suction holder



Connection to the **farmunited**
The platform for optimal crop management

- Professional device management
- Cloud-based platform, access via mobile devices through a web browser
- Acquisition and management of job and machine data
- Simple, geodata-based documentation
- Data is protected and anonymized



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Extension possibilities of **Edward**

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Edward basic device can be combined with the **ESM** double knife cutting unit, a rotating system cutting unit, the **EdDa** thinning unit and the **Duo** or **Trio** defoliation unit. Thus, **Edward** can be equipped with all available implements!



rotating cutting unit fly knife

rotating cutting unit circular saw blades

double knife cutting unit

thinning unit **EdDa**

defoliating unit **Trio**

Thinning unit **EdDa**



With the thinning unit **EdDa** you achieve an excellent thinning effect and an optimal increase in fruit size and fruit quality.

- Better thinning result than any chemical
- No. 1 in cost efficiency
- Weather independent use
- Immediately visible thinning result
- High area performance, up to 15 km/h
- Alternate bearing reduced

Defoliating unit **Duo / Trio**



Defoliating units **Duo** and **Trio** for optimal coloring.

- Depth effect through pulsating air-flow
- Increased exposure to light and temperature
- Earlier and even coloration
- Harvesting in optimal starch recommendation
- Reduce number of picks
- Better storage results
- Better fruit quality and better packout

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Technical specifications

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Basic device Edward	Edward comfort	Edward standard	Edward N
Hydraulic side shift	400 mm	400 mm	300 mm
Hydraulic height adjustment	600 mm	600 mm	600 mm
Inclination angle of the vertical cutting bar	+/- 20°	+/- 20°	+/- 20°
Required oil flow	45 l/min	45 l/min	45 l/min
Weight	445 kg	425 kg	405 kg

double knife ESM	200	250	300
Cutting height	1.950 mm	2.450 mm	2.850 mm
Inclination angle	-/+ 20°	-/+ 20°	-/+ 20°
Cutting force	25 mm	25 mm	25 mm
Driving speed max.	4 km/h	4 km/h	4 km/h
Machine dimensions in mm (w/d/h)*	1.700/860/2.421	1.700/860/2.931	1700/860/3.295
Weight	98 kg	115 kg	128 kg

horizontal double knife ESM	200	250	300
Cutting width	1.200 mm	1.200 mm	1.200 mm
Inclination angle	110°	110°	110°
Machine dimensions in mm (w/d/h)*	1.700/860/2.498	1.700/860/2.984	1.700/860/3.404
Weight	87 kg	88 kg	89 kg

rotating system	200	230	250	300
Cutting height	1.900 mm	2.300 mm	2.500 mm	2.850 mm
Inclination angle	-/+ 20°	-/+ 20°	-/+ 20°	-/+ 20°
Cutting force circular saw	100 mm	100 mm	100 mm	100 mm
Cutting force flying cutters	45 mm	45 mm	45 mm	45 mm
Driving speed max.	8 km/h	8 km/h	8 km/h	8 km/h
Machine dimensions in mm (w/d/h)*	1.700/860/2.424	1700/860/2.924	1700/860/2.984	1700/860/3.404
Weight	102 kg	123 kg	136 kg	154 kg

horizontal rotating system	200	230	250	300
Cutting width	1.000 mm	1.000 mm	1.000 mm	1.000 mm
Inclination angle	110°	110°	110°	110°
Machine dimensions in mm (w/d/h)*	1.700/860/2.424	1.700/860/2.924	1.700/860/2.984	1.700/860/3.404
Weight	105 kg	117 kg	136 kg	155 kg

Thinning unit EdDa	200	250	300
Working height	1.935 mm	2.395 mm	2.850 mm
Area performance	1,5 - 2,5 ha/h	1,5 - 2,5 ha/h	1,5 - 2,5 ha/h
Driving speed	7 - 12 km/h	7 - 12 km/h	7 - 12 km/h
Machine dimensions in mm (w/d/h)*	1.800/1.271/2.612	1.800/1.271/3.067	1.800/1.271/3.522
Weight	87 kg	99 kg	106 kg

Defoliating unit	DUO	TRIO
Working height	570 - 1230 mm	570 - 1850 mm
Working depth	400 - 600 mm	400 - 600 mm
Working angle	0 - 90°	0 - 90°
Work pressure	0,6 - 0,8 bar	0,6 - 0,8 bar
Area performance (m ² Laubwand/h)	3000	4500
Number of rotors	2 Rot. x 4 Nozzles	3 Rot. x 6 Nozzles
Driving speed	1,8 - 2,5 km/h	1,8 - 2,5 km/h
Machine dimensions in mm (w/d/h)*	1635/820/2260	1635/820/2340
Power requirement	52 kw (70 PS)	66 kw (90 PS)
Weight	149 kg	199 kg

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* when attached to the tractor