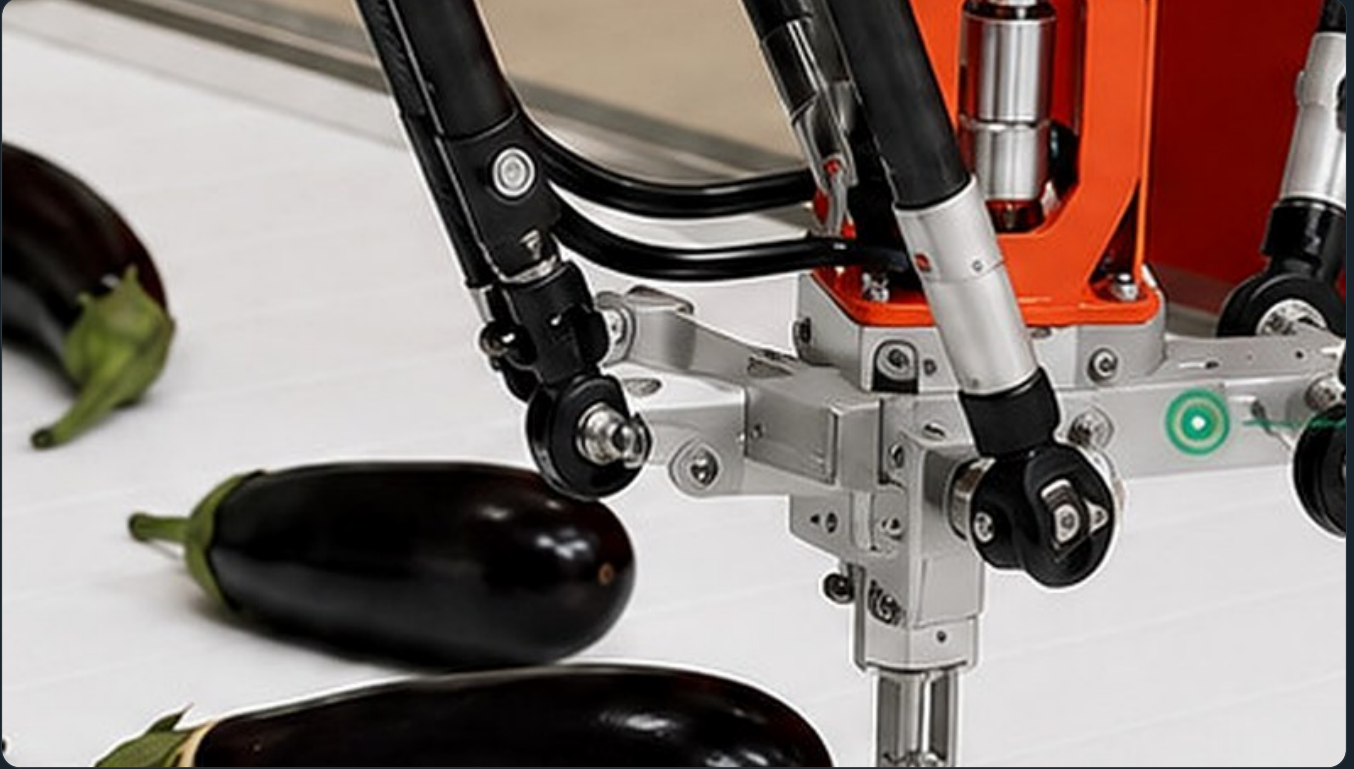




AUTOMATIC CUTTING UNIT ABOVE THE PRODUCT CONVEYOR

CUT-E

MODEL CUT-E

AUTOMATIC EGGPLANT STEM CUTTING MACHINE

Vision-guided stem and calyx removal on a continuous conveyor.

Engineered and manufactured in Türkiye by DOKTEK FoodTech.

Every eggplant is different. The cut should be too.

VISION-GUIDED

Each product is detected before the tool moves.

CONTINUOUS CONVEYOR

The belt keeps moving during the cut.

PER-PRODUCT CALCULATION

Cut position calculated per detected product.



WATCH CUT-E RUN

Why Stem Cutting Matters

Canned, pickled, frozen or sliced — every eggplant process starts with stem removal. A cut placed too deep sends usable flesh out with the stem; a cut placed too short leaves stem on the product. The stem step is where your yield is decided.

THREE WAYS TO MAKE THE SAME CUT

MANUAL

- Flexible
- Operator dependent
- Labor intensive
- Repetitive process
- Cut consistency varies

FIXED CUTTER

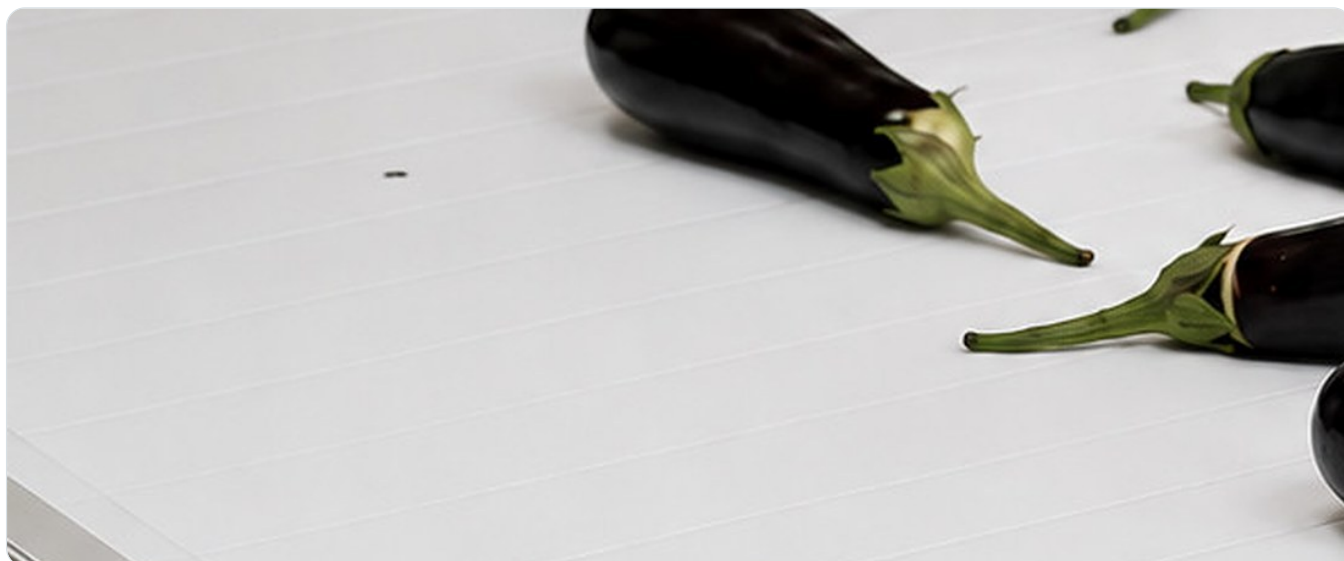
- Simple cutting principle
- One mechanical reference
- Does not adapt to natural product variation
- Can remove usable product or leave stem, depending on geometry

CUT-E

- Individual product detection
- Calculated cutting location
- Continuous conveyor
- Machine adapts to product geometry
- Designed for measurable and repeatable processing

YOUR BUSINESS CASE IS CALCULATED FROM YOUR PRODUCTION

Send us your labor cost, product value, current yield loss and production hours. We return a project-specific payback evaluation for your line.



RAW PRODUCT AS IT REACHES THE LINE — STEM AND CALYX STILL ON

PRODUCT VIEW

Detect. Calculate. Track. Cut.

Products enter on a continuous conveyor — the belt keeps moving during the cut.

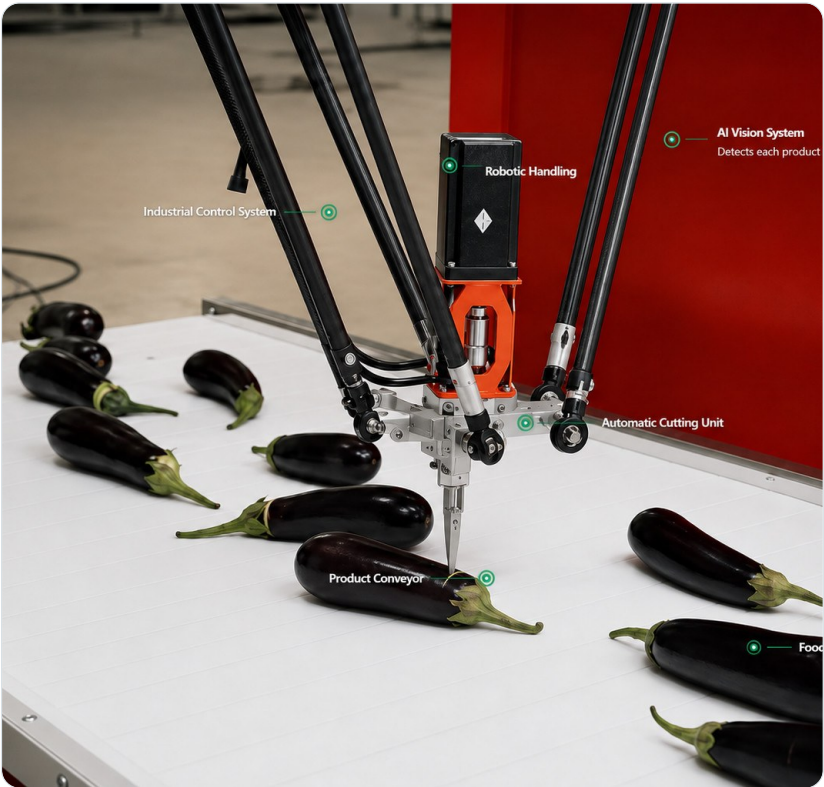
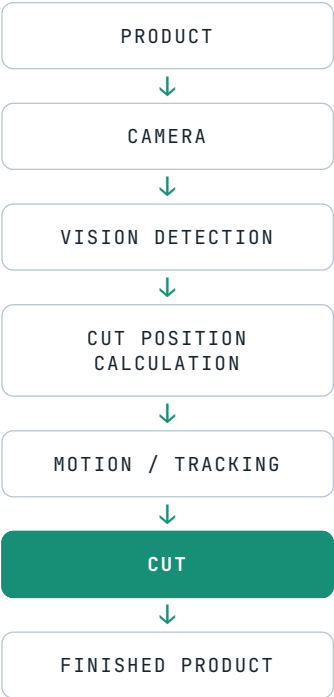
- 01

Detect
Machine vision identifies the incoming product and the relevant stem geometry.
- 02

Calculate
Software determines a cutting position for the detected product.
- 03

Track
The machine follows each product's position on the moving belt — the conveyor never stops for the cut.
- 04

Cut
The cutting system executes the calculated cut for that product.



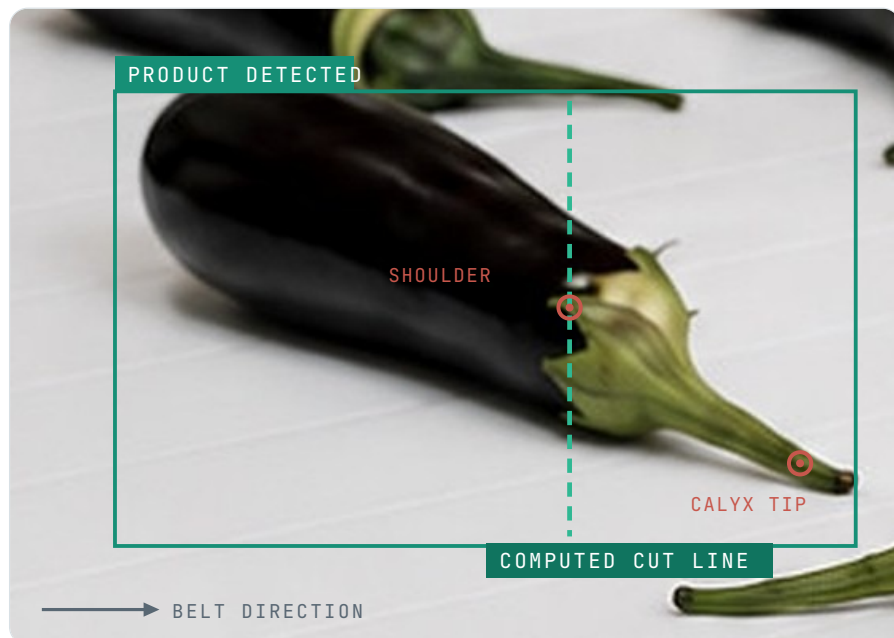
CUT-E OVER THE PRODUCT CONVEYOR

PRODUCT VIEW

SUBSYSTEM LEGEND	
1 • VISION	Camera-based product detection over the belt
2 • CONVEYOR	Carries the product through without stops
3 • KINEMATICS	High-speed delta kinematics carry the tool
4 • CUTTING UNIT	Executes the calculated cut

The Cut Starts With Detection

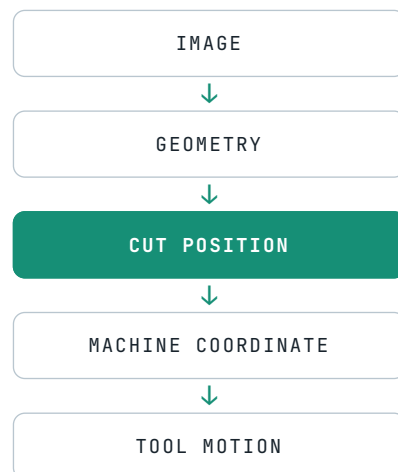
Before the tool moves, the product is detected and its stem geometry located. Image coordinates are transformed into machine coordinates while the belt keeps moving.



THE DETECTION PRINCIPLE: DETECTION BOX, KEYPOINTS AND THE COMPUTED CUT LINE — AS SEEN IN THE PUBLIC DEMONSTRATION FOOTAGE

ILLUSTRATION

FROM IMAGE TO MOTION



LIVE DETECTION INTERFACE

The live detection interface — detection box, keypoints and computed cut line — is shown in the demonstration footage on our YouTube channel:

[youtube.com/
@doktertechnology](https://youtube.com/@doktertechnology)

The vision system does not choose from preset positions. It locates the stem geometry of the product in front of it, and the cut position follows from that detection.



VISION AND CUTTING REGION ABOVE THE PRODUCT CONVEYOR

PRODUCT VIEW

Calculated Cut vs. Fixed Cut

Three real products from the same belt. The red dashed line is one fixed mechanical reference, shown at the same position in each frame. The teal line is the position CUT-E calculates for that product.



PRODUCT A – LONG
FIXED REFERENCE: CORRECT – BY CHANCE



PRODUCT B – SHORT
FIXED REFERENCE: USABLE FLESH LOST



PRODUCT C – OPPOSITE ORIENTATION
FIXED REFERENCE: CUT LANDS IN THE FLESH

FIXED CUT

One reference applied to product variation.

Possible outcome: too much usable product removed on one product, or stem remaining on another.

CALCULATED CUT

Cutting location calculated from detected product geometry.

The objective: cut only what needs to be cut.

**THE PRODUCT DOES NOT ADAPT TO CUT-E.
CUT-E ADAPTS TO THE PRODUCT.**

Real Product. Real Cut.

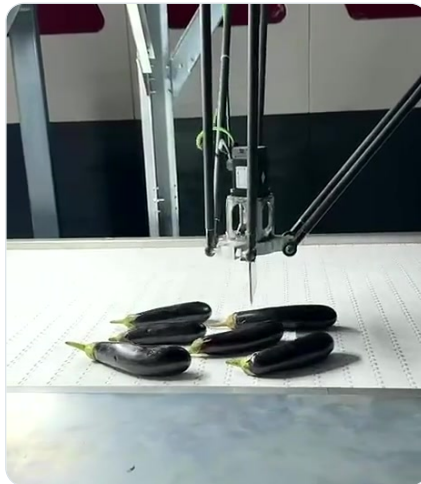
The photographs on this page show product cut by the actual machine — not a rendered illustration.

01 — BEFORE



RAW PRODUCT ON THE BELT

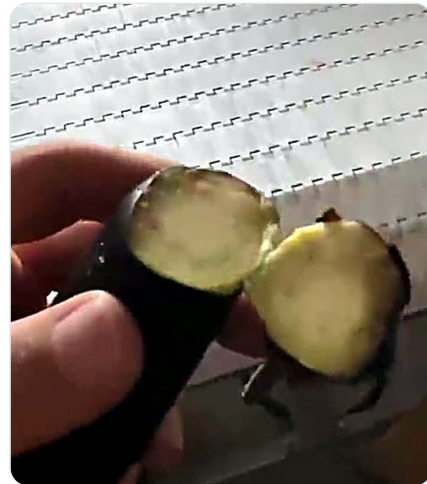
02 — CUT



CUTTING RUN ON THE BELT

FOOTAGE

03 — AFTER + REMOVED CAP

CUT FACE AND REMOVED
STEM CAP

CUT SAMPLE

Demonstration footage of the machine running — including the stem-detection interface with detection box, keypoints and computed cut line — is public on our YouTube channel.

Accuracy and capacity are confirmed on your own product samples during application engineering — see the trial record on the next page.

PROFESSIONAL SEQUENCE PHOTOGRAPHY

Same-product BEFORE → CUT →
AFTER series with scale reference — in
production for the next revision.

WATCH THE MACHINE RUN — [YOUTUBE.COM/@DOKTEKTECHNOLOGY](https://www.youtube.com/@DOKTEKTECHNOLOGY)

FOOTAGE

Performance Is Measured on Your Product

We do not publish assumed figures. Performance is recorded in a cutting trial on representative product and documented in a test configuration like this one. **This is the empty form we complete during your cutting trial.**

TEST / REFERENCE CONFIGURATION

PRODUCT VARIETY	[ENTER DATA]
SAMPLE QUANTITY	[ENTER DATA]
PRODUCT LENGTH RANGE	[ENTER DATA] mm
PRODUCT DIAMETER / WIDTH RANGE	[ENTER DATA] mm
PRODUCT WEIGHT RANGE	[ENTER DATA] g
CONVEYOR SPEED	[ENTER DATA] m/min
TESTED PRODUCT RATE	[ENTER DATA] pcs/min
EQUIVALENT THROUGHPUT	[ENTER DATA] kg/h
ACCEPTED CUT CRITERION	[DEFINE]
ACCEPTED CUTS	[ENTER VERIFIED VALUE] %
REMAINING STEM CRITERION	[DEFINE]
CALYX REMOVAL SCOPE	[TO BE VERIFIED]
AVERAGE FLESH REMOVAL	[ENTER VERIFIED VALUE]
TRIAL DATE	[ENTER DATE]

OUR POSITION ON NUMBERS

Performance figures in this table are entered only from recorded trials on representative product — not from marketing estimates. Your figures are produced the same way: on your product, documented under stated trial conditions.



PROTOTYPE CUTTING RUN DEVELOPMENT FOOTAGE

Performance depends on product variety, product geometry, incoming condition, presentation, target cutting criterion and machine configuration. Final performance is validated against representative customer samples.

Designed for Food-Processing Cleaning Access

CUT-E is built in stainless steel and designed with cleaning access for food-processing environments. Cleaning method and protection ratings are confirmed per delivered machine configuration.

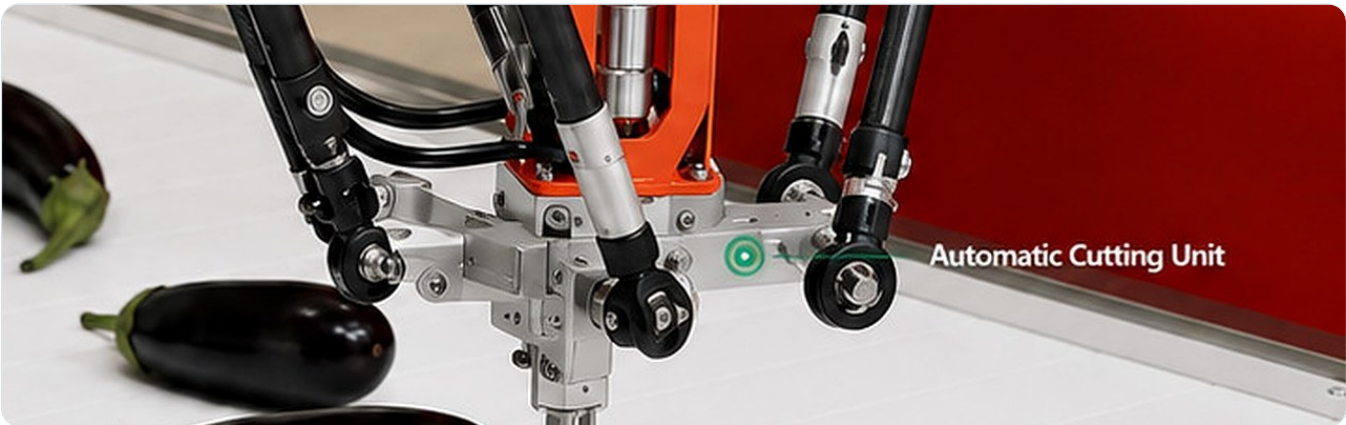


CUTTING UNIT ABOVE THE OPEN MESH BELT FOOTAGE

Cleaning is planned into the project, not left to the site: the cleaning method is defined with your hygiene team at project review, and the daily cleaning routine — including any pressure and chemical limits — is stated in the cleaning instructions delivered with the machine.

CONSTRUCTION DATA — CONFIRMED PER PROJECT

FRAME MATERIAL	Stainless steel — grade stated in the project specification
PRODUCT-CONTACT MATERIAL	Stated in the project specification
CONVEYOR BELT	Belt material stated in the project specification
ELECTRICAL ENCLOSURE	IP rating stated per delivered configuration
MOTION COMPONENTS	Protection and cleaning limitations stated per delivered configuration
CLEANING METHOD	Defined with your hygiene team at project review
FOOD-CONTACT DOCUMENTATION	Supplied with the delivered machine

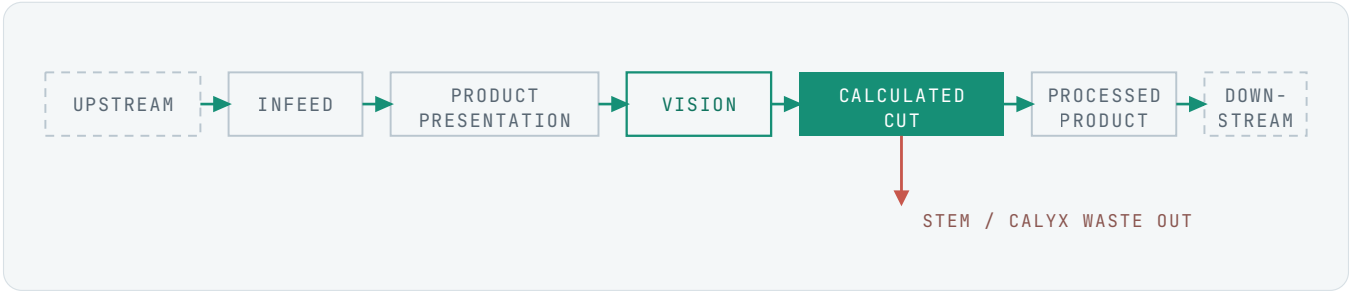


THE AUTOMATIC CUTTING UNIT ABOVE THE BELT

PRODUCT VIEW

One Station in Your Line, Not an Island

CUT-E runs in continuous mode — the belt keeps moving during the cut. Machine capacity is configured according to product dimensions, orientation, cutting geometry, conveyor configuration and production requirements.



ENGINEERING INTERFACES – DEFINED PER PROJECT

CONVEYOR HEIGHT H1	Defined per project
DISCHARGE HEIGHT H2	Defined per project
WORKING WIDTH W	Defined per project
DIGITAL I/O · READY · RUN PERMISSION · FAULT	Defined per project
EMERGENCY STOP INTERFACE	Defined per project
UPSTREAM / DOWNSTREAM INTERLOCK	Defined per project

DOWNSTREAM APPLICATIONS (NOT INCLUDED IN SUPPLY)

- Freezing
- Pickling
- Canning
- Slicing · dicing
- Further processing

DOKTEK engineers define feed, presentation, discharge, alarms and signal exchange together with your line engineers.



PRODUCT PRESENTATION ON THE BELT

PRODUCT VIEW

CUT-E Technical Data

MODEL	CUT-E	MACHINE DIMENSIONS	PROJECT SPECIFICATION
APPLICATION	Automatic eggplant stem / calyx cutting	MACHINE WEIGHT	PROJECT SPECIFICATION
OPERATING MODE	Continuous conveyor	INSTALLED POWER	PROJECT SPECIFICATION
VISION	Camera-based product detection	ELECTRICAL SUPPLY	PROJECT SPECIFICATION
CUT POSITION	Calculated per detected product	COMPRESSED AIR	PROJECT SPECIFICATION
MACHINE CONFIGURATION	Project-built / configuration dependent	FRAME MATERIAL	Stainless steel – grade per project spec.
CAPACITY	VALIDATED IN YOUR PRODUCT TRIAL	PRODUCT-CONTACT MATERIAL	PROJECT SPECIFICATION
PRODUCT RATE	VALIDATED IN YOUR PRODUCT TRIAL	ENCLOSURE PROTECTION	PER DELIVERED CONFIGURATION
PRODUCT SIZE RANGE	VALIDATED IN YOUR PRODUCT TRIAL	OPERATOR REQUIREMENT	DEFINED PER PROJECT
CONVEYOR WIDTH	PROJECT SPECIFICATION	CONTROL INTERFACE	DEFINED PER PROJECT
CONVEYOR HEIGHT	PROJECT SPECIFICATION	ORIGIN	Engineered and manufactured in Türkiye

Final machine specification is confirmed during project review according to product samples, factory layout, required output and process integration.

INTELLECTUAL PROPERTY	Protected engineering know-how – Turkish utility model TR 2019 06625 Y
PLATFORM	Shared vision-and-motion platform with the DOKTEK CUT family – adapted for okra stem cutting on the DOKTEK pilot line
CONFORMITY	Documentation defined according to the delivered machine configuration and destination market



CUTTING UNIT ON ITS DELTA MOUNT

FOOTAGE

From Your Product to a Configured Machine

01

Send your process

Representative product photos — including your difficult products — a short process video, current throughput and target accepted output.

02

Engineering & feasibility review

A DOKTEK engineer reviews your product range, incoming orientation, cutting criterion, line layout, target capacity and seasonal variation.

03

Product trial

A cutting trial on representative customer products. We record the covered product range, cut result, observed throughput and acceptance criteria.

04

Configuration-specific quotation

Based on the validated application: machine configuration, line interfaces, required documentation and delivery scope.



SEND YOUR APPLICATION

Scan to start your application review —
doktekfoodtech.com/project-review

SCOPE OF SUPPLY & SUPPORT

STANDARD SUPPLY

- CUT-E machine
- Control system
- Vision system
- Operating documentation
- Commissioning support

Warranty terms, recommended spare-parts package, delivery time and training are stated in the configuration-specific quotation.

ONE POINT OF CONTACT

Your quotation lists the delivered configuration item by item, so purchasing, engineering and quality review the same document.



CUTTING RUN

FOOTAGE

START WITH YOUR PRODUCT. WE'LL VALIDATE THE PROCESS.

SEND US

- Product photographs
- Short process video
- Product dimensions
- Target output
- Factory / line layout

THEN

ENGINEERING
REVIEW



PRODUCT
TRIAL



VALIDATION



CONFIGURATION



QUOTATION

MEASURE. CALCULATE. **CUT.** VALIDATE.

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WEB

doktekfoodtech.com

VIDEO

youtube.com/@doktektechnology

DOKTEK FoodTech — an engineering-led, application-driven machine builder combining machine vision and high-speed delta kinematics. Developed in Denizli, Türkiye; engineered and manufactured in Türkiye for the food processing industry.



WATCH CUT-E &
REQUEST A TRIAL