

COUNTSAFE™ 360

360° FULL-SURFACE VISUAL INSPECTION
SYSTEM FOR SOLID DOSAGE.

TARGET APPLICATIONS

Pharmaceutical and nutraceutical solid dosage:
tablets, capsules, softgels and gel-tabs.



 **OPTEL™**
Traceability technologies for a better world

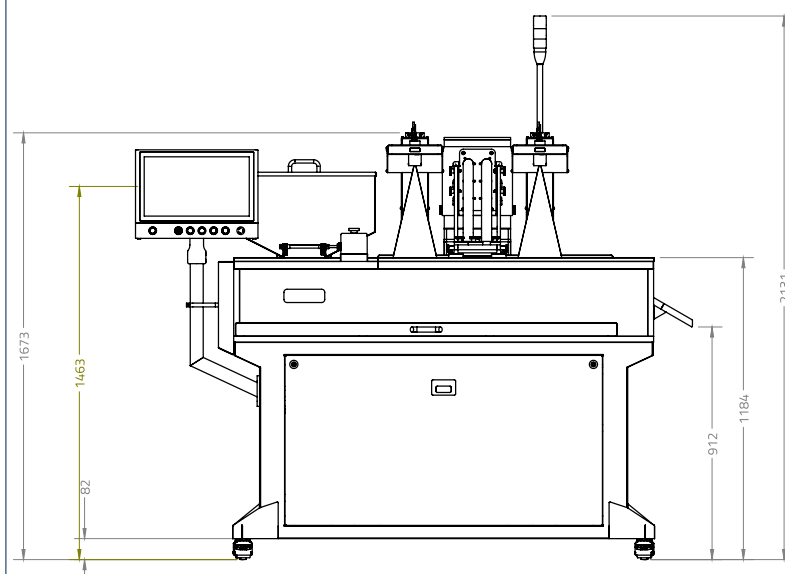


Full-circumference
imaging of every unit



Positive ejection
confirmation,
2nd-stage camera

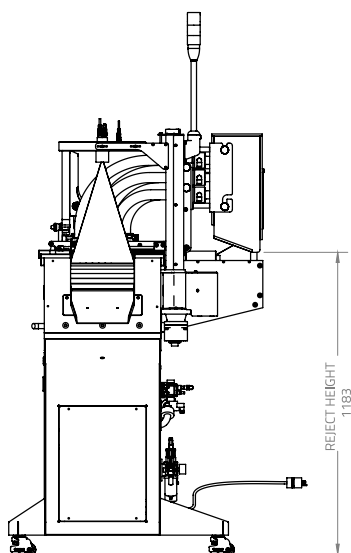
FRONT VIEW



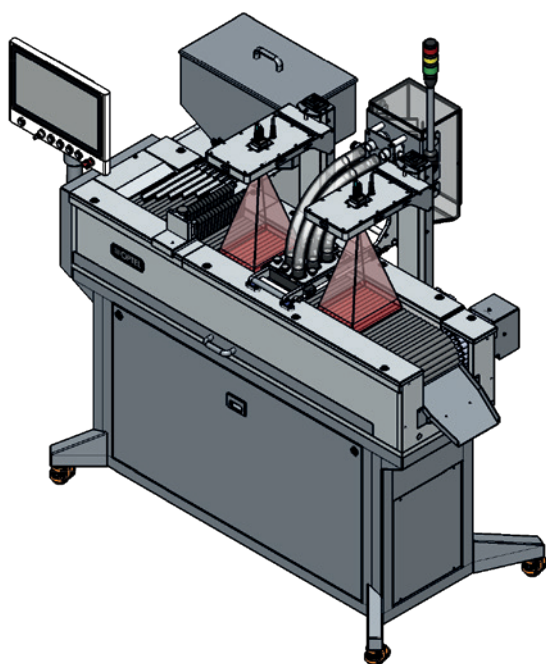
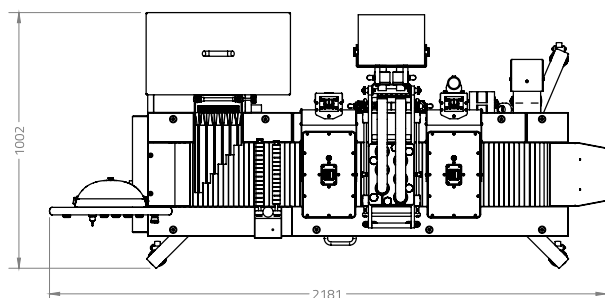
DEFECT DETECTION COVERAGE

DEFECT TYPE	TABLET	CAPSULE
Wrong / off color	✓	✓
Wrong size	✓	✓
Wrong shape	✓	✓
Broken / split product	✓	✓
Chipped edges	✓	✓
Surface stains / spots	✓	✓
Missing / defective coating	✓	✓
Dents (lid & body)	—	✓
Unlocked / open capsule	—	✓
Tuck defects	—	✓
Print / marking presence	—	✓

SIDE VIEW



TOP VIEW



TECHNICAL SPECIFICATIONS

INSPECTION & DETECTION

Dimensional detection threshold	Length variation $\geq 10\%$
Smallest detectable defect	Color 1 mm · chips 0.75 mm · dents 10% of product size
Reject verification (2 nd stage)	100% positive ejection confirmation via independent confirmation camera

PRODUCT COMPATIBILITY

Product types	Hard tablets, hard & soft capsules, opaque softgels, oblong tablets, gel-tabs
Capsule size range	00EL, 00, 0EL, 0, 1, 2, 3, 4
Tablet shapes	Round, oblong, oval
Product dimensional range	4–30 mm (length)

THROUGHPUT & PERFORMANCE

Throughput capability	Up to 150,000 products/h (size-dependent)
Linear conveyor speed	Up to 200 mm/s
Rejection method	Automatic ejection + independent confirmation camera (100% verification before bulk collection)

CAPSULE SIZE	THROUGHPUT (PRODUCTS/H)
#00EL	90,000
#00	100,000
#0EL	100,000
#0	110,000
#1	120,000
#2	130,000
#3	140,000
#4	150,000

Actual throughput depends on product size, shape and number of inspected features.

VISION SYSTEM

Inspection stations / cameras	2 inspection cameras
Camera / resolution	1.5 MP Baumer VCXG, 1440 × 1080 px
Inspection method / angles	Polarized vision field, 90° angle, 250 mm wide inspection area
Illumination	Polarized bright white LED arrays (P00 polarization)
Confirmation camera	Independent downstream camera; triggers machine stop / alarm if a faulty unit bypasses ejection

MACHINE & MECHANICAL

Overall dimensions (L×W×H)	2181 × 1002 × 2131 mm
Conveyor	8-inch roller conveyor assembly
Feeding system	50 L high-capacity filling hopper + automated vibrating feeder
Construction	GMP-compliant, washable design; integrated electrical cabinet; enclosed vision head
Handling principle	Products held on rotating rollers for full circumference imaging, then ejected

TECHNICAL SPECIFICATIONS (SUITE)

CONTROLS, SOFTWARE & INTEGRATION

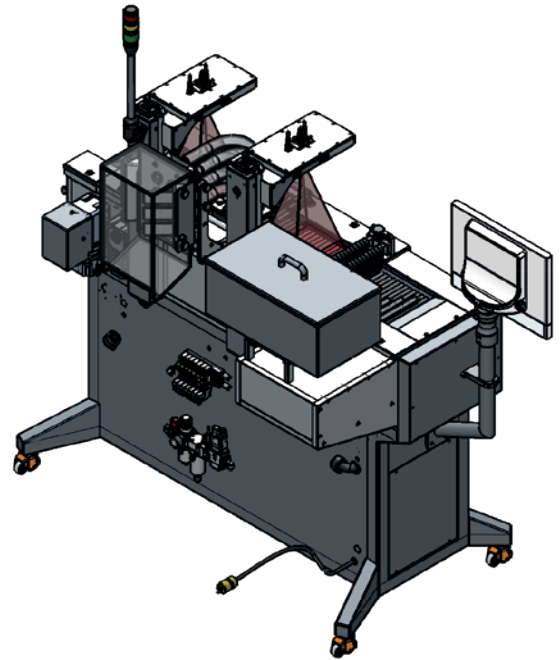
Operating mode	Fully offline / standalone, no line modification required
HMI	IP65-rated 18.5" touchscreen with integrated control buttons
Network / connectivity	Industrial router: LDAP authentication, central clock sync, secure remote desktop support
Offline recipe simulation	OPS package to build and refine recipes on a laptop from a golden image set, with no line downtime
Data, audit trail & reporting	OPC-UA for OEE, audit trail and alarms reporting

UTILITIES & INSTALLATION

Power requirements	120 VAC / 60 Hz / 20 A / 1.2 kW
Compressed air	90 psi (approx. 6.2 bar)
Operating environment	15–35 °C
Standard lead time	16–22 weeks after FDS signature

COMPLIANCE & DATA INTEGRITY

cGMP	Full adherence to current Good Manufacturing Practice
FDA 21 CFR Part 11	Electronic records eligibility
Data integrity	Follows GAMP5 principles; compliant with EU CRA
Cleaning / washdown	Washable, GMP-compliant design



optelgroup.com

©Optel Vision inc. d.b.a. "OPTEL Group", 2026.
All rights reserved.

NORTH AMERICA

Canada — HEADQUARTERS
+1 418 688 0334

EUROPE

Ireland, Germany

ASIA

India
+91 832 669 9600

SOUTH AMERICA

OPTEL Brazil
+55 19 3113 2570