PRODUCT CATALOG

Precision Sheet Metal Visual Inspection System



Full-dimension inspection of flat sheet metal parts against the CAD drawing — in seconds, with no programming.

OMS is a brand of KETEC Precision Tooling

HOW IT WORKS

From part to inspection report in seconds

An ultra-high-resolution digital imaging system captures millions of measurement points from the part in a single shot. The software turns them into the part's actual contour and compares it with the design drawing to find every deviation.

The result is a full inspection report, with a color deviation map that highlights even small local errors. The condition of each part is clear at a glance, and the report can be viewed on screen or printed right away.



01

Capture

Place the flat part on the glass. A Canon high-resolution camera images the entire part at once — no fixtures, no probing.

02

Compare

The measured contour is overlaid on the CAD drawing automatically, feature by feature.

03

Report

Deviations are flagged by color and length, and a full-dimension report is ready to print, archive or send.

INSPECTION TIME
About 30 seconds per part

OPERATOR SKILL
No programming or metrology training needed

MATERIALS
Stainless, aluminum, copper, carbon steel and other opaque materials

FUNCTION 01

Fast first-article inspection

Done in about 30 seconds

No programming and no metrology specialist. Operators get an answer at the machine instead of waiting on the quality lab.

Every feature on the drawing, checked

Dimensional deviations, extra features and missing features all stand out at a glance, so nothing slips through.

A report for every part

Each inspection produces a report that is easy to send to customers, archive or print.

CATCH PROBLEMS EARLY

Find the cause before it becomes scrap

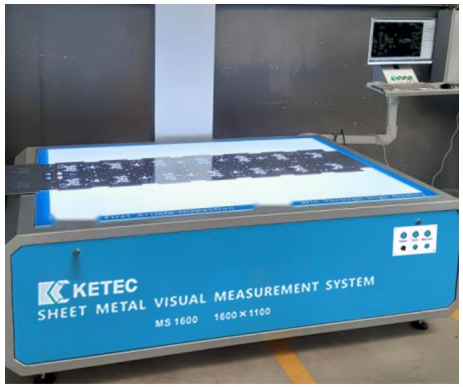
01 Worn punch and die tooling

02 Incorrect tool setup

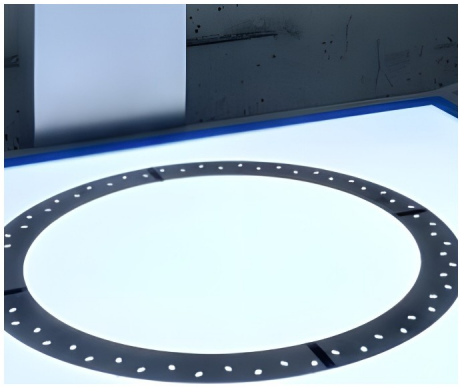
03 Programming errors

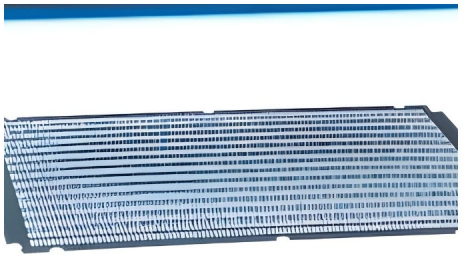
04 Outdated CAD drawing revisions

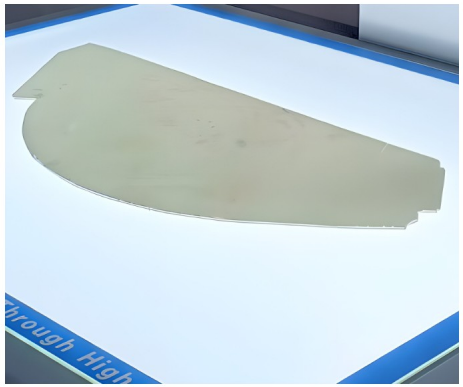
05 Declining machine accuracy



Long perforated part on the glass


Large flange ring, one capture


High-density perforated panel


Large curved blank

FUNCTION 02

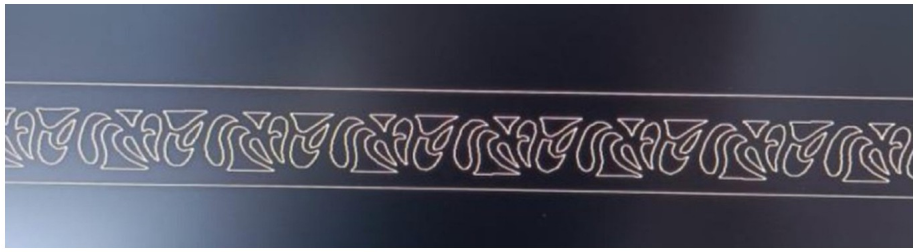
Reverse engineering

Got a sample part but no drawing? The system generates a standard 1:1 CAD drawing straight from the part. Edit it, import it into your punch press or laser, and start producing.

SAMPLE PART



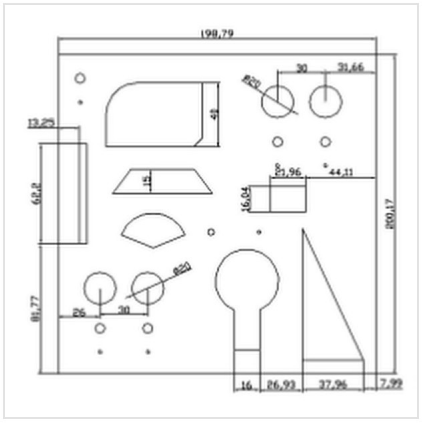
GENERATED CAD DRAWING



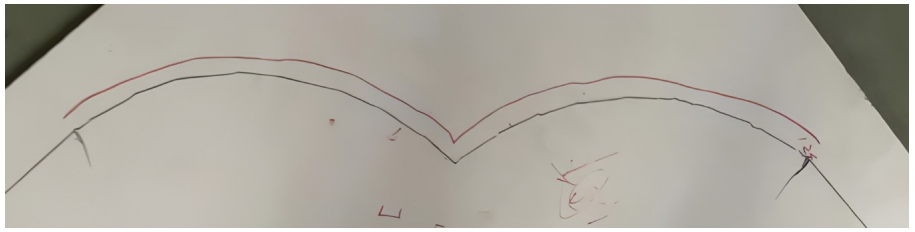
SAMPLE PART



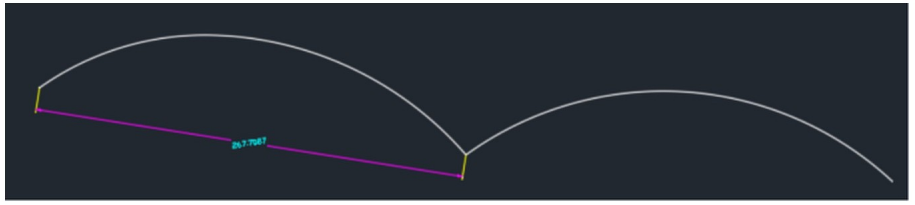
DIMENSIONED DRAWING



HAND-DRAWN TEMPLATE



MEASURED CAD PROFILE

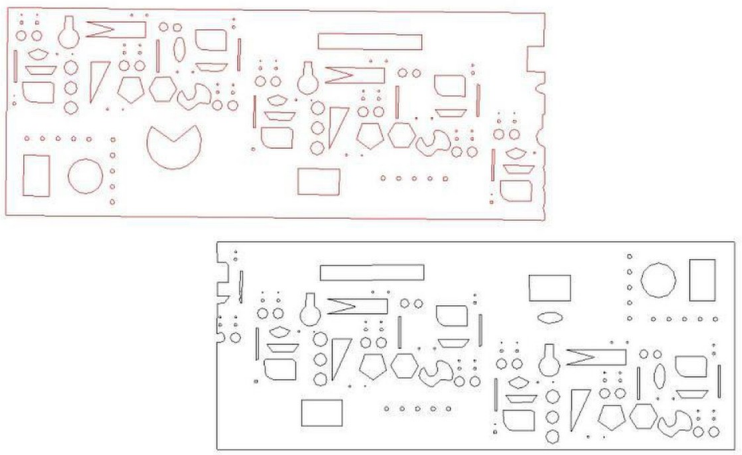


FUNCTION 03

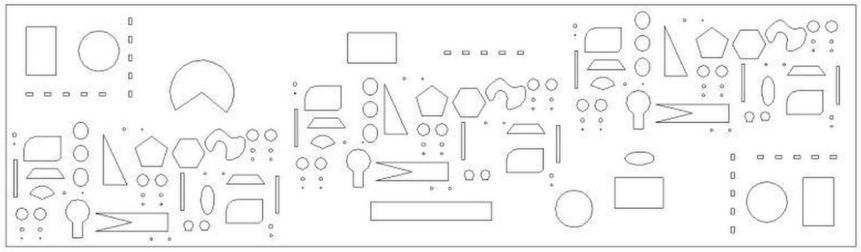
Oversized part stitching

Parts larger than the inspection area are captured in sections. With a few clicks from the operator, the software joins the sections into one complete part and inspects it as a whole.

CAPTURED IN SECTIONS



JOINED INTO ONE PART



FUNCTION 04

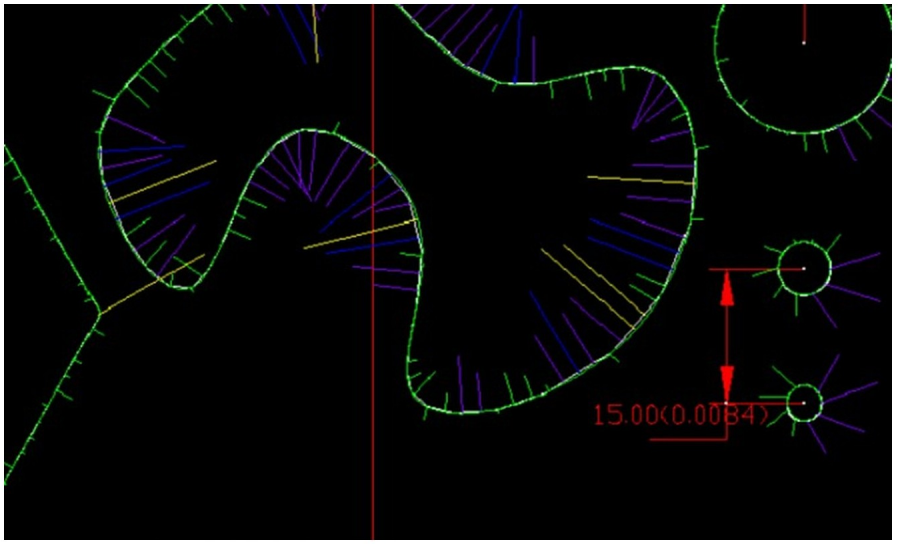
Clear pass/fail criteria

Parts are judged by the same rules your quality team already uses.

01 **Toleranced dimensions** are judged against the tolerance on the drawing.

02 **Untoleranced dimensions** are judged against your company standard or an international standard of your choice.

03 **Undimensioned features** get color deviation lines — judge by color and line length at a glance.



Color deviation lines: each color is a deviation band, line length shows the size of the error.

FUNCTION 05

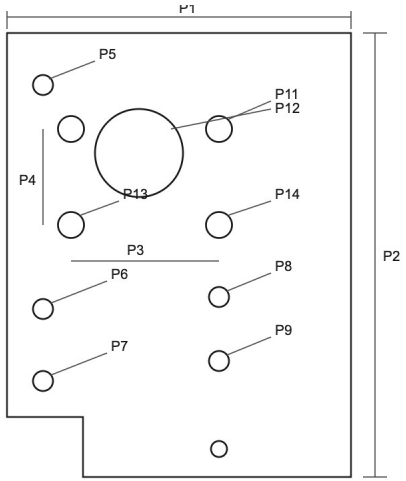
Full inspection report, every time

A full-dimension report is produced automatically after every inspection, with your own header information. Print it directly or export it.

EXCEL | PDF | CAD | BMP

Sheet Metal Inspection Report

Inspection Report				Number
File path	123.dwg			
Operator			Inspect date	2019-07-28 09:22:
Factory number			P/O	
P/N			Customer P/N	
Summary	Qualified	15	Missing	0
	Unqualified	0	Unnecessary	0



Report summary: part file, operator, date, pass/fail counts and the inspected drawing.

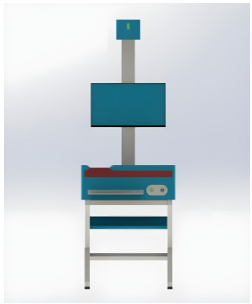
Inspection Report Data								
File path	MS-101.dwg							
Operator	zhao guo			Inspect date		2021-12-08 16:04:12		
Factory number	21-1543			P/O				
P/N	13			Customer P/N				
Missing (0)								
Code	Size	Design	Detect	Deviation	Std. deviation	Tolerance		Remark
Surplus (0)								
Code	Size	Design	Detect	Deviation	Std. deviation	Tolerance		Remark
Unqualified (0)								
Code	Size	Design	Detect	Deviation	Std. deviation	Tolerance		Remark
Qualified (41)								
Code	Size	Design	Detect	Deviation	Std. deviation	Tolerance		Remark
P1	Y-axis dim	40.00	39.99	-0.01	0.010588	-0.30/+0.30		
P2	X-axis dim	60.00	60.06	0.06	0.001630	-0.30/+0.30		
P3	Y-axis dim	29.92	29.89	-0.03	1.018536	-0.20/+0.20		
P4	X-axis dim	60.00	59.95	-0.05	0.004169	-0.30/+0.30		
P5	Y-axis dim	40.00	39.92	-0.08	0.008230	-0.30/+0.30		
P6	Y-axis dim	62.20	62.11	-0.09	0.000001	-0.30/+0.30		
P7	X-axis dim	14.70	14.70	0.00	0.008720	-0.20/+0.20		
P8	X-axis dim	16.00	15.94	-0.06	0.000001	-0.20/+0.20		
P9	Y-axis dim	45.00	45.01	0.01	0.000241	-0.30/+0.30		
P10	Y-axis dim	47.42	47.38	-0.04	0.000001	-0.30/+0.30		
P11	Diameter	53.01	53.01	0.00	0.000762	-0.30/+0.30		
P12	Diameter	20.00	19.99	-0.01	0.000612	-0.20/+0.20		
P13	Diameter	20.00	19.98	-0.02	0.000601	-0.20/+0.20		
P14	Diameter	8.00	7.91	-0.09	0.001489	-0.20/+0.20		
P15	Diameter	30.00	29.99	-0.01	0.000820	-0.30/+0.30		
P16	Diameter	10.00	9.88	-0.12	0.001229	-0.20/+0.20		

Report data: every feature with design value, measured value, deviation and tolerance (mm).

MODEL LINEUP

Three sizes. One platform.

Every model uses the same Canon imaging system and VisionMetrology software. Choose by the size of the parts you make.







Model	MS600	MS1250	MS1600B
Inspection area	**23.6 × 15.7 in** 600 × 400 mm	**49.2 × 31.5 in** 1250 × 800 mm	**63.0 × 43.3 in** 1600 × 1100 mm
Accuracy	**±0.0010 in** ±0.025 mm	**±0.0016 in** ±0.04 mm	**±0.0020 in** ±0.05 mm
Overall size, L × W × H	**39.4 × 29.5 × 70.9 in** 1000 × 750 × 1800 mm	**63.0 × 47.2 × 114.2 in** 1600 × 1200 × 2900 mm	**82.7 × 70.9 × 141.7 in** 2100 × 1800 × 3600 mm
Weight	**On request**	**Approx. 1,320 lb** 600 kg	**Approx. 1,760 lb** 800 kg
Power	**On request**	**220 V · under 1 kW**	**220 V · under 1 kW**

North America: a 120 V / 60 Hz adapter can be pre-installed at the factory. Specifications subject to change without notice.

SERVICE & SUPPORT

Support that stays with you

01

Lifetime software upgrades

Every new release is free for the life of the machine.

02

Secure remote assistance

Our engineers connect remotely to diagnose and fix issues fast.

03

24/7 remote response

Phone, email and remote-desktop support around the clock.

04

Regular follow-up

We check in with every customer to keep the system at its best.

NORTH AMERICA

Direct service in the U.S., Canada and Mexico

Our own service reps

No third-party dealers between you and the people who know the machine.

Pre-installed, plug and play

Set it in place, plug it in, start inspecting. 120 V adapter available.

Open to AI integration

Source code on request for AI, MES and ERP systems.

ON SITE WITH OUR CUSTOMERS

Installation, training and follow-up visits at customer plants









CUSTOMERS INCLUDE

Also installed in Mexico, South Korea, Thailand, Vietnam and Malaysia

Luxshare **Bosch** **Huawei** **Amazon** **CATL** **Haier** **Gree** **Hisense** **KUKA**

Precision sheet metal visual inspection

KETEC Precision Tooling LLC
Newton, Massachusetts

ketectooling.com

OMS is a brand of KETEC Precision Tooling LLC. Direct service in the United States, Canada and Mexico.

Specifications subject to change without notice.