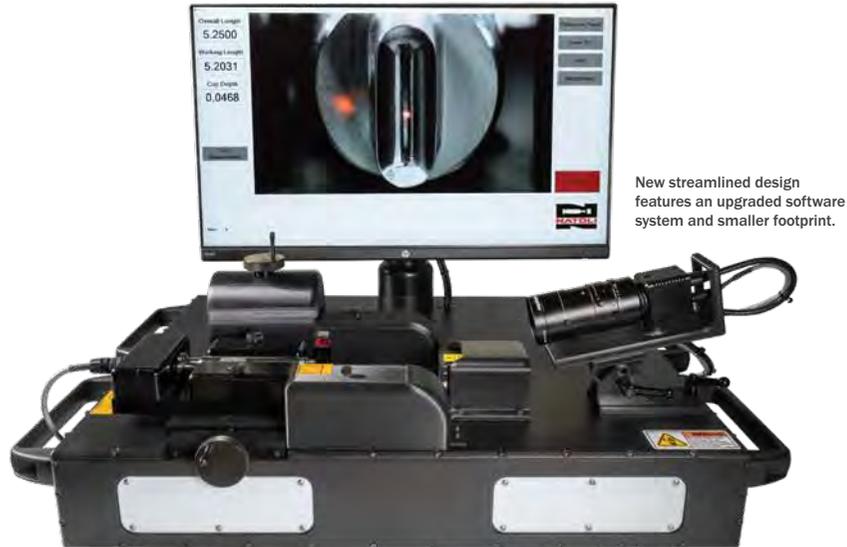


LASER VISION PUNCH INSPECTION SYSTEM (LVS)

Speed up the inspection process with this non-contact laser punch inspection system. Laser technology measures the critical dimensions of a punch: working length, cup depth, and overall length for precise, automated inspections in seconds.

FEATURES:

- Multi-tip tooling capability
- Efficient one-step measurements
- Enhanced camera view of punch cup with zoom lens
- More control with enhanced software interface
- Automatic real-time measurements
- Integrated touchscreen controls
- Image capture function
- All electrical, few moving parts



New streamlined design features an upgraded software system and smaller footprint.

LASER VISION PUNCH INSPECTION SYSTEM

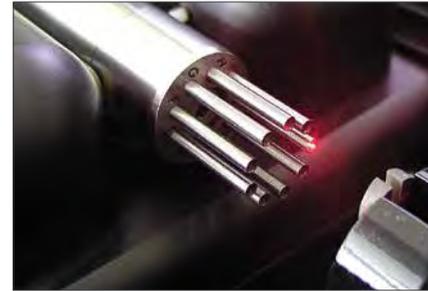
Part No.	Item Description
IN 7443	LVS Automatic Laser Punch Inspection System
LE 7051	LVS Equipment Cover (not shown)
IN 7449	"B" Tooling Nest
IN 7445	"B" Tooling Reference Point Length Standard (not shown)
IN 7446	"B" Tooling Reference Standards (not shown)
IN 7448	"D" Tooling Nest (not shown)
IN 7444	"D" Tooling Reference Point Length Standard (not shown)
IN 7447	"D" Tooling Reference Standards (not shown)
IN 7440	Natoli "FS12 Type" Short Reference Standard (not shown)
IN 7441	Natoli "FS12 Type" Long Reference Standard (not shown)

MUST HAVE!

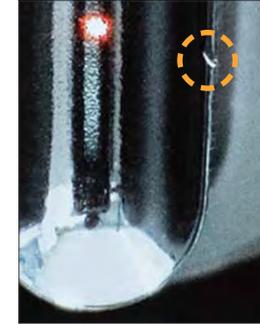


Laser Vision System (LVS) laser focused on punch cup and displayed in real time on monitor

The "non-contact" LVS system utilizes dual laser technology to inspect punches. Unlike the sharp point on a gauge, a laser beam poses no risk of scratching the surface of the punch tip when trying to locate the deepest point of the cup. And with no moving parts, the LVS is virtually maintenance-free.



Laser Vision System infrared laser focused on a multi-tip punch



Detect tip damage with the Laser Vision System's camera

The LVS interfaces with Tool Management II (TM-II) database software (see page 54) for automatic inspection data storage and analysis, making it the most powerful punch inspection and tool control device available. Measurements are transferred directly into the database with the click of a button, increasing efficiency and eliminating data entry errors. The automated "no-nonsense" approach eliminates the need for traditional time-consuming, inaccurate, and costly inspection procedures and prevents press downtime by inspecting and automatically recording the critical dimensions.

Proper analysis of the punch working length dimension is a critical function of the TM-II application. As such, the working length measurement of each punch is compared to the working lengths of the other punches rather than to preset tolerance values. Learn more about TM-II software and compatible inspection kits on pages 54-55.

