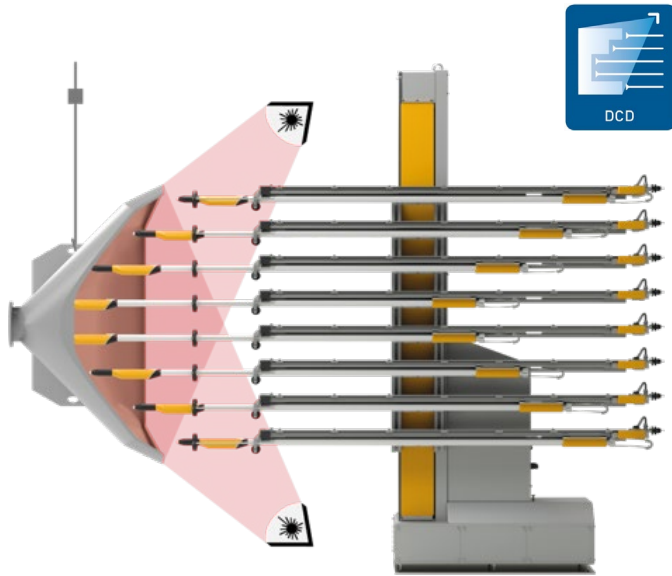# Dynamic Contour Detection – 2nd generation

Advanced laser scanner technology paired with enhanced gun axis
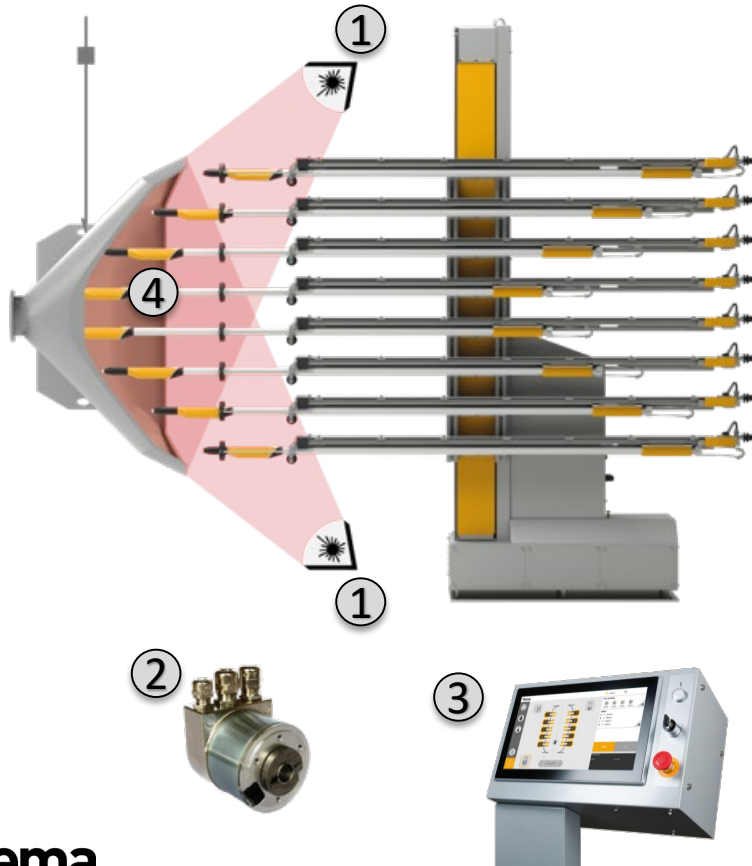
- Extended application range – complex 3D part geometries

- Increased first pass transfer efficiency providing powder savings

- Reduces operator input

Scan & Spray objects of any shape and size

Improved coating quality and consistency

Fully automatic, manual touch-up minimized

Laser scanners (1) installed at the booth entrance provide a digital image of products entering the application zone.

Exact 3D outline of the object is created by combining laser data with precise line speed obtained from an encoder (2) using proprietary algorithms though the MagicControl 4.0 system control (3)

The digital image of each part is used for individual positioning and triggering of all guns (4)

Detection of objects of any shape and size

Data from multiple scanners is combined to cover XXL large parts and eliminate shadow areas
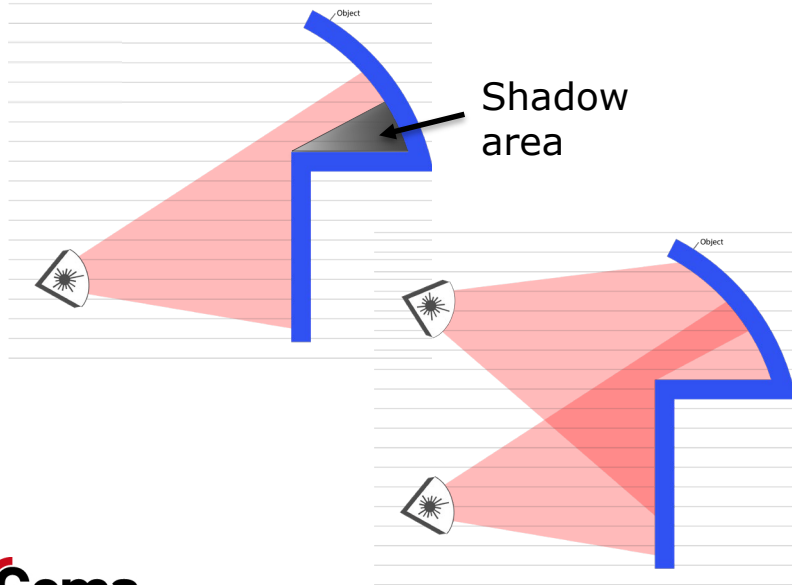
The use of multi-angle-scan technology ensures detection of even the thinnest object contours at high line speeds

Object

Shadow area

Object

up to 5m/min line speed *)

≥ 10 mm

≥ 10mm

≥5mm
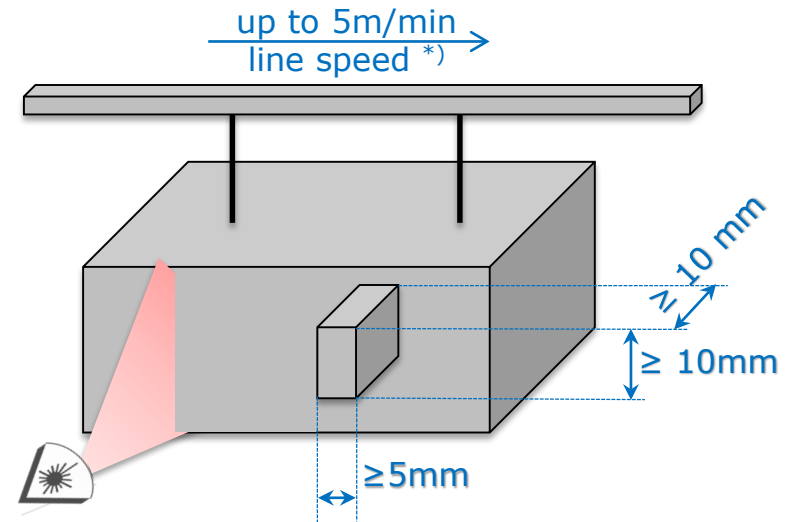
*) *improved resolution accuracy at reduced line speeds, with no limitation on the maximum speed*

Gema

Improved coating quality and consistency

Automatic adaptation of all relevant parameters based on each object's individual geometry.

Minimal requirements for manual touch-up reduces human error

➢ Consistent results for each production lot of any given part – yesterday, today and tomorrow

Optimized target position setting and triggering for each individual gun

➢ Increased first pass transfer efficiency

➢ Reduced overspray

➢ Powder savings