

Geometry-Aware Forming Check

EXP-0033 / REV A / 2026.08.03

The concept evaluates sheet-metal bends using geometry-aware measurements, then compares thickness, inside radius, die opening, punch shape, bend angle, flange length, and collision risk. It is intended to keep theoretical checks separate from verified machine capability; no result is presented as a certification or production guarantee.

STATUS	CONCEPT
CLASSIFICATION	EXP
MATERIAL	SHEET METAL / ANALYSIS
DISPOSITION	CONCEPT / NEEDS VALIDATION

TECHNICAL NOTES

A forming-feasibility study that reads geometry and tooling limits before a bend reaches the shop floor.

SPECIFICATION

INPUTS	Thickness / radius / angle
CHECKS	Flange / tooling / collision
FALLBACK	Feature data when needed
BOUNDARY	Theory is not certification

DEVELOPMENT HISTORY

2026.08.03 / Rev A

Recorded the geometry-first analysis boundary and validation limits.

RELEASED MATERIAL / SOURCE LINKS

EXP-0033_forming-checklist.txt

CHECKLIST / 2 KB

Awaiting public upload.

CONNECTED RECORDS

EXP-0028

<https://u225x.com/record/EXP-0028>

SYS-0024

<https://u225x.com/record/SYS-0024>

RETURN TO THE LIVING RECORD

Geometry-Aware Forming Check

This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/EXP-0033>