

NEXT GENERATION FORMING MACHINE that can be called **THE ULTIMATE.**

AIDA UL-ti-mate Precision Forming Press **UL Series**

The unchanging theme of press forming is to achieve [improved product quality],[extended die life] and [improved versatility]. Consequently the press must be a "Machine With Better Accuracy Than Dies".

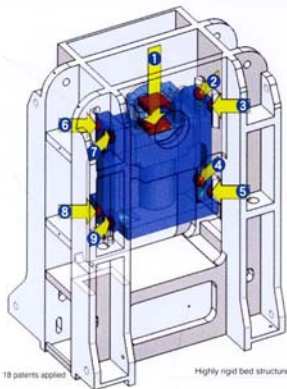
- The shimmy motion of the slide caused by **shocks at time of punching, vertical motion of slide by off-center loading and breakthrough(snap-through)** during stamping operation was the biggest problem in conventional press working.
- UL Series adopted a newly developed design of positively receiving shimmy motion of slide or rotating moment by a crankshaft (one point) and eight "Zero(0)" clearance spherical shoe type gibs (Ultra-gibs) arranged on the slide, thus enabling **ULTIMATE** high precision forming.

Innovative [9 point Support Forming Machine]... Achieving Ultimate High Precision Stamping.

High Off-center Loading Capacity Which Extends Die Life.
High Versatility Which Widens Forming Range.
Compact Design Which Achieves Lower Overall Height.

Combined
single ring plate frame design

Reinforcing frame for
increased lateral rigidity



18 patents applied

Highly rigid bed structure

UL Series Maximize High Versatility

..... suited for progressive, transfer and fine blanking operations as well as cold forging thanks to the single point center suspension con-rod-less design.



UL Series Overcome Most Severe Forming Conditions.

■ Blanking Sample of Complicated Parts of Hard-to-Blank Materials



■ Material: SK5 1x2.0 ■ Press: UL-2500

■ Features

- Blanking complete contour of complicated parts of hard-to-blank material (100%)
- Die cushion with locking mechanism
- Quality of sheared surface (Perpendicularity and Smoothness)

■ Blanking Sample of Thick Plate Gear



■ Material: SPHC 1x6.0 ■ Press: UL-4000

■ Features

- O.D. of thick plate: gear shape
- I.D. compound piercing of round hole
- Die cushion with locking mechanism
- Fine blanking at off-centered position
- Die clearance (one side): 20 μm
- Guide post-less die design

■ Counterbore and Emboss Forming Sample



■ Material: SPCC 1x2.8 ■ Press: UL-6000

■ Features

- High accuracy of counterbore and emboss forming under off-centered load condition
- Complete burish blanking of outer contour under off-centered loading condition
- Die clearance (one side): 10 μm
- Guide post-less die design