

3D NC FORMING Machine

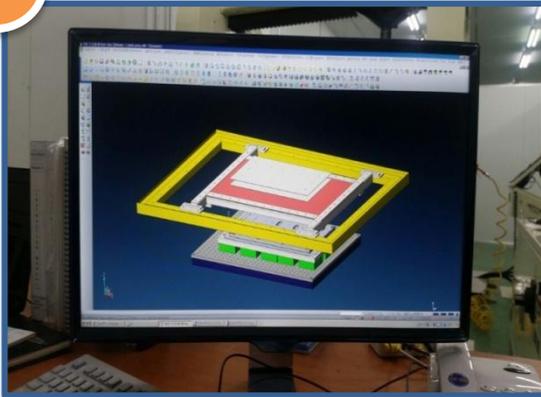


(주) 파인디앤씨



- 설비명 : NC Forming Machine
- 설치장소 : ㈜파인디앤씨 본사(탕정) 선형개발팀 현장
- 도입일자 : 2016.01.01
- 가공범위 : 2000 × 1000 × 500
- 허용제품 무게 : 400 kg
- 허용재질 : Ti, SUS, SECC(EGI), Al, SGLCC(갈바늄), SPCC 외 일정 수치의 연신률을 보유한 금속성 재질의 박판.
- 허용두께 : t0.2mm ~ t4.0mm

1



제품 Modeling

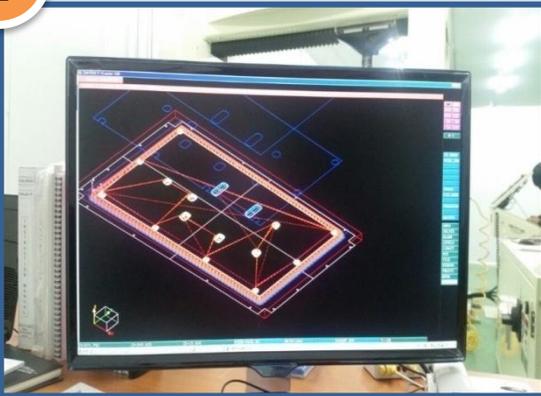
- 완성 Modeling data를 이용
전개 및 수정
(CATIA, IGES, STEP 등 기존
Modeling 프로그램의 DATA의
사용 가능)
- Master JIG 설계

3

NC Forming M/C Control unit



2



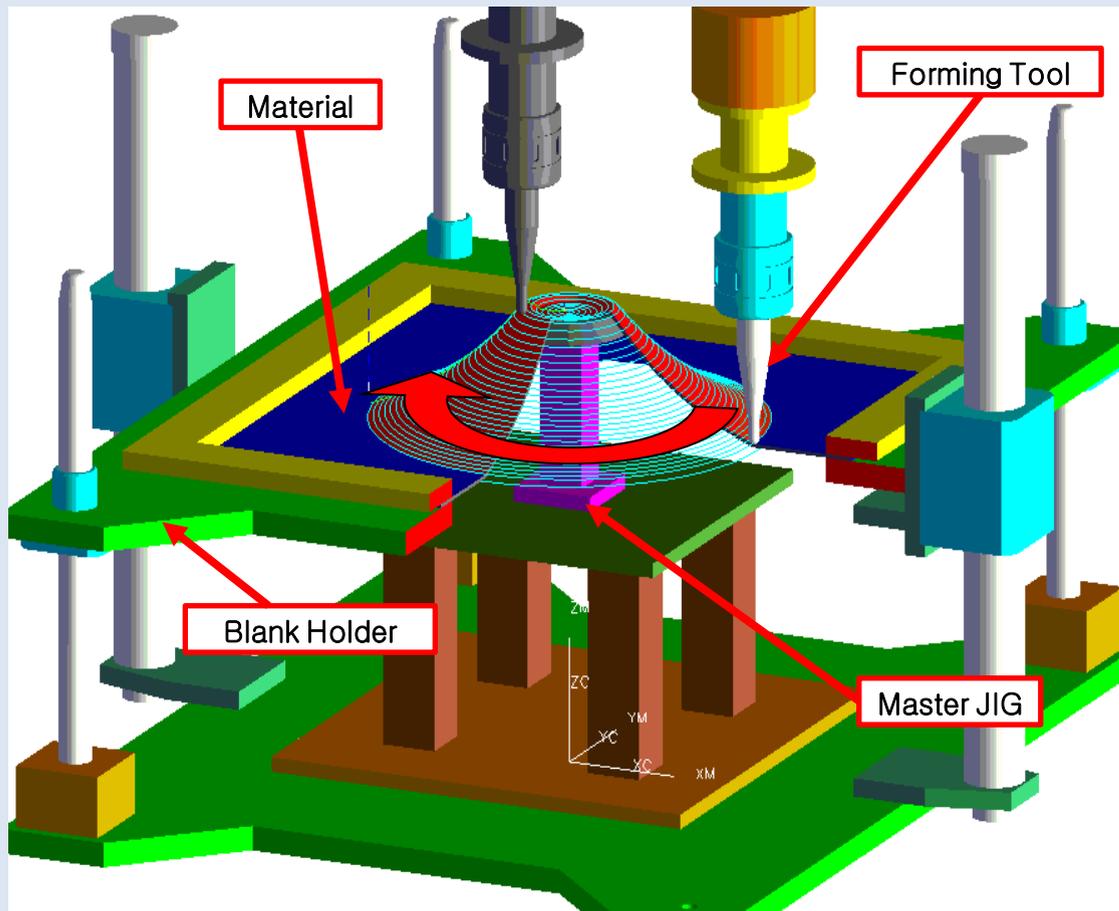
CAM Programing

- 보유 CAM 프로그램을 이용
NC Forming M/C용 DATA 작성

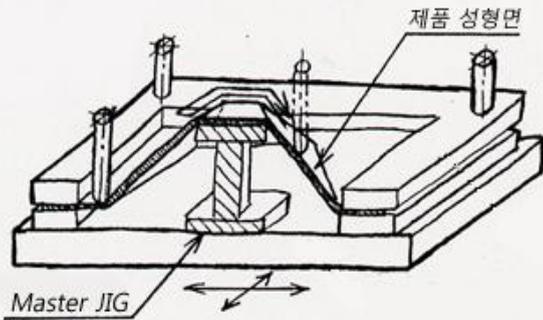
FINISH

3D Laser Welding / Or Cutting

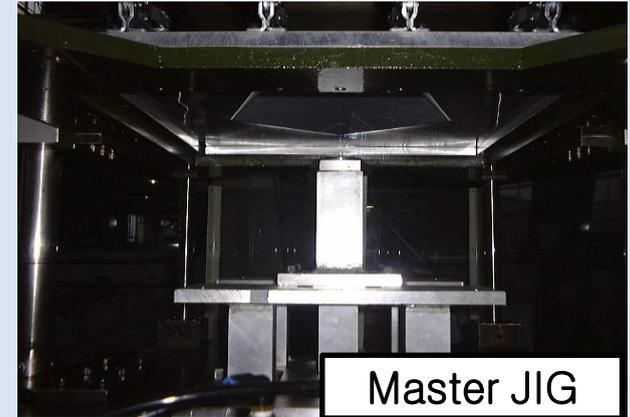




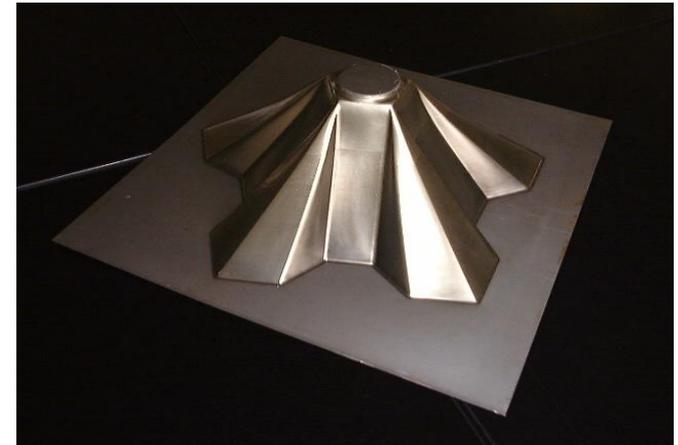
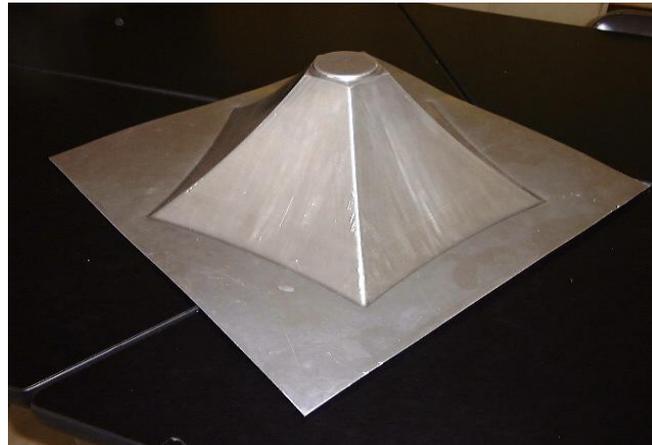
- Blank Holder에 고정된 평판소재 하부에 별도 제작된 Master JIG를 세팅
- 소재를 고정시킨 Blank Holder의 상승
- Master JIG를 기준하여 Forming Tool의 회전운동
- 반복적이 Blank Holder의 상승과 Forming Tool의 회전운동으로 소재에 압력이 가해지며, Forming형상 구현

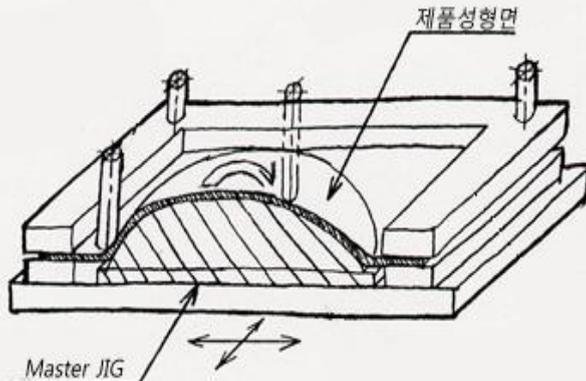


- 직선구간의 Forming 성형시 단순화한 Master JIG를 활용.
- Master JIG의 제작공정의 단축



관련제품

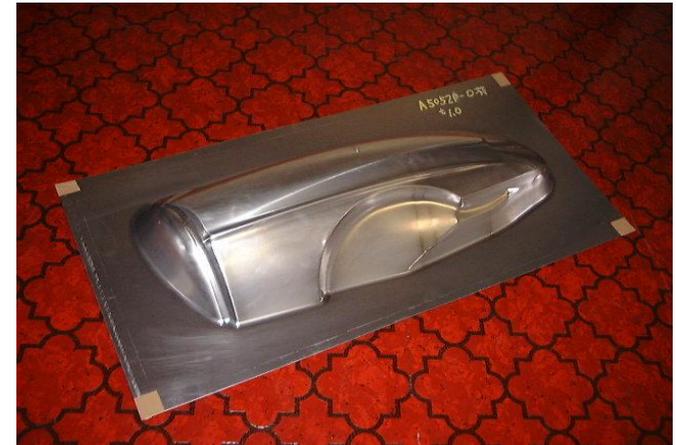




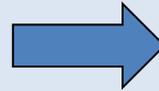
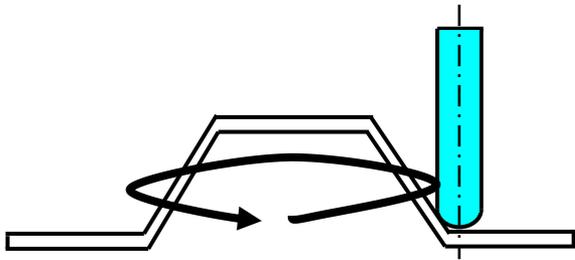
- 정밀한 형태의 곡면 및 복합적인 Forming 형상이 요구될 시 저가의 재료를 이용, Master JIG를 제작하여 반영구적 사용 가능



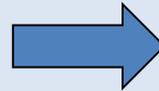
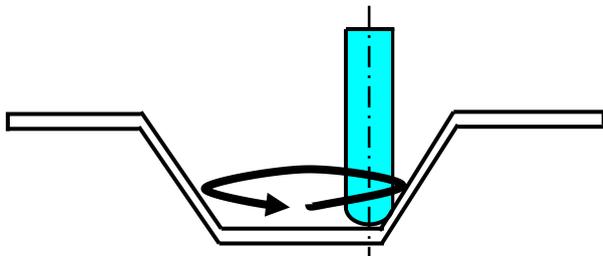
관련제품



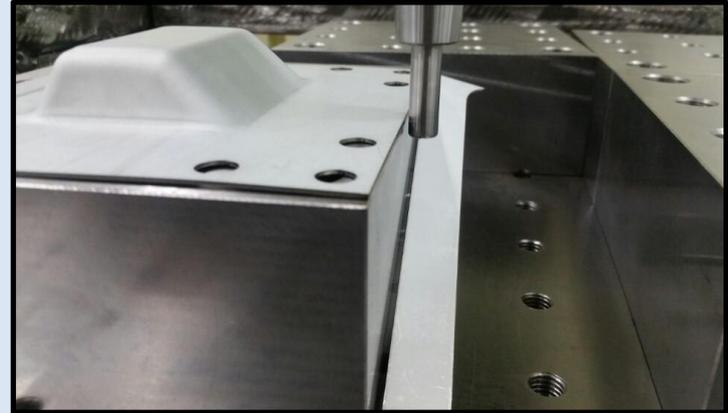
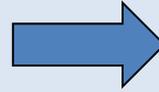
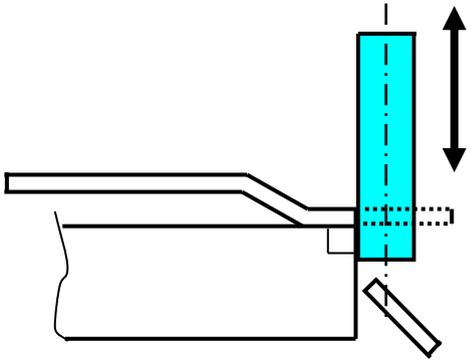
Convex Forming



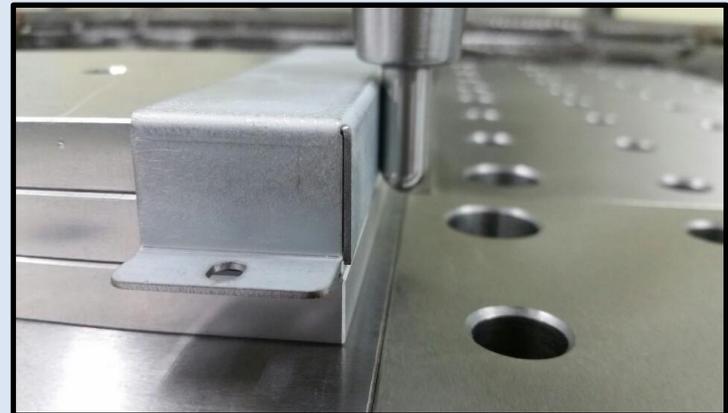
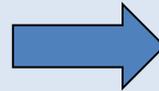
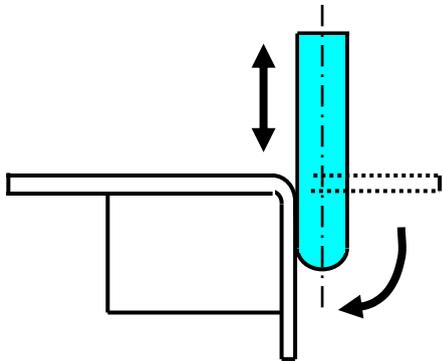
Concave Forming



Trimming



Bending



Hemming

