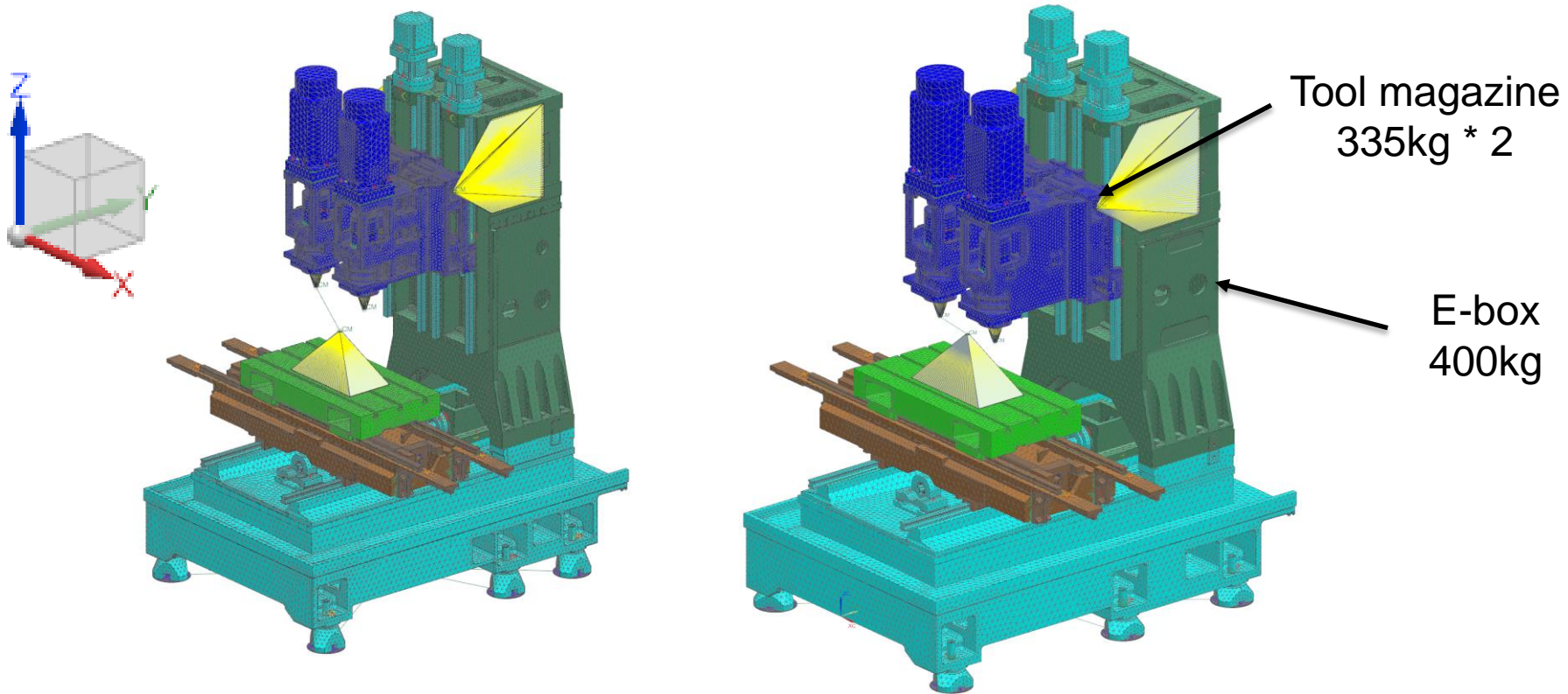




SMEC SM400DH 구조해석 보고서

바닥지지부 하중 분포 (Model 1, 2 비교)

2017. 8. 30
한국기계연구원
김창주



- 축 중심 위치에서 해석
- 바닥고정 방식 : Foot 단순 지지
- 가공물 중량 : 80kg
- 최대 가속도 : X 1.45g, Y 0.78g, Z,W 0.74g
- 커버 중량 = 전체중량 (4100kg) - 해석모델 중량 (3600kg) = 500kg

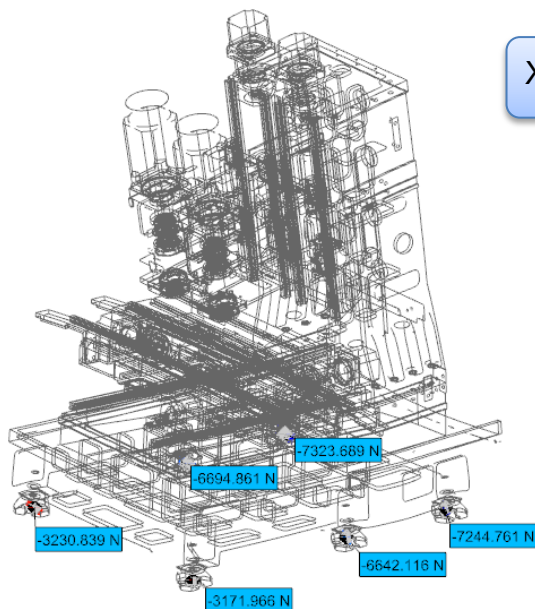
6개 Foot에 고르게 분산 지지되는 것으로 가정

운동조건별 바닥 하중 분포 (기초 데이터)

Structure
No motion



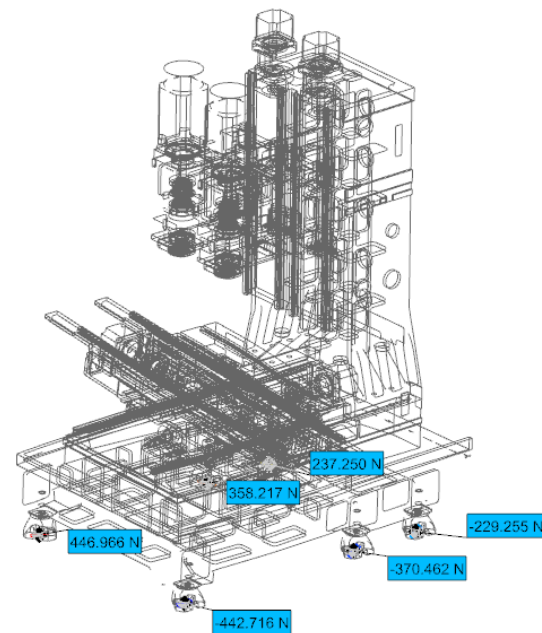
Units = N



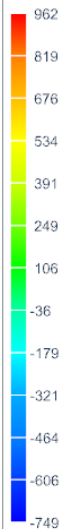
X axis (1G)



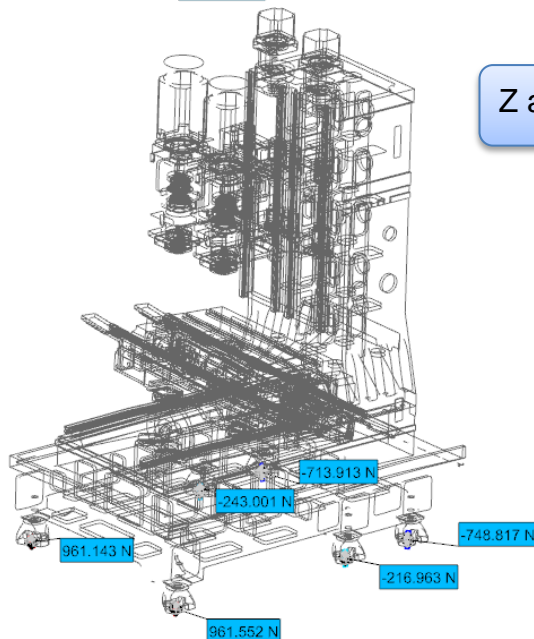
Units = N



Y axis (1G)



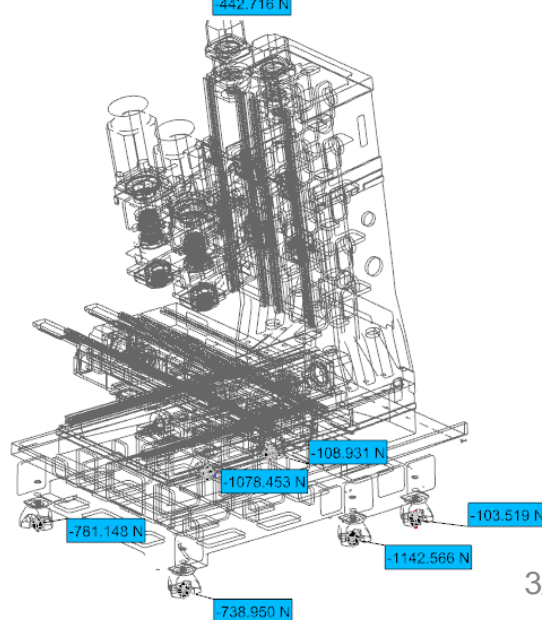
Units = N



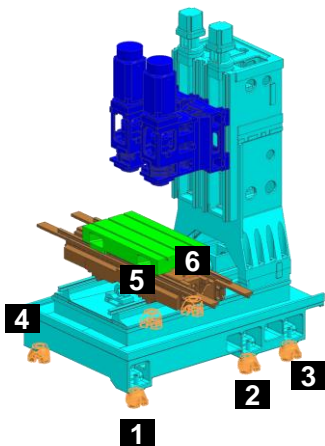
Z axis (1G)



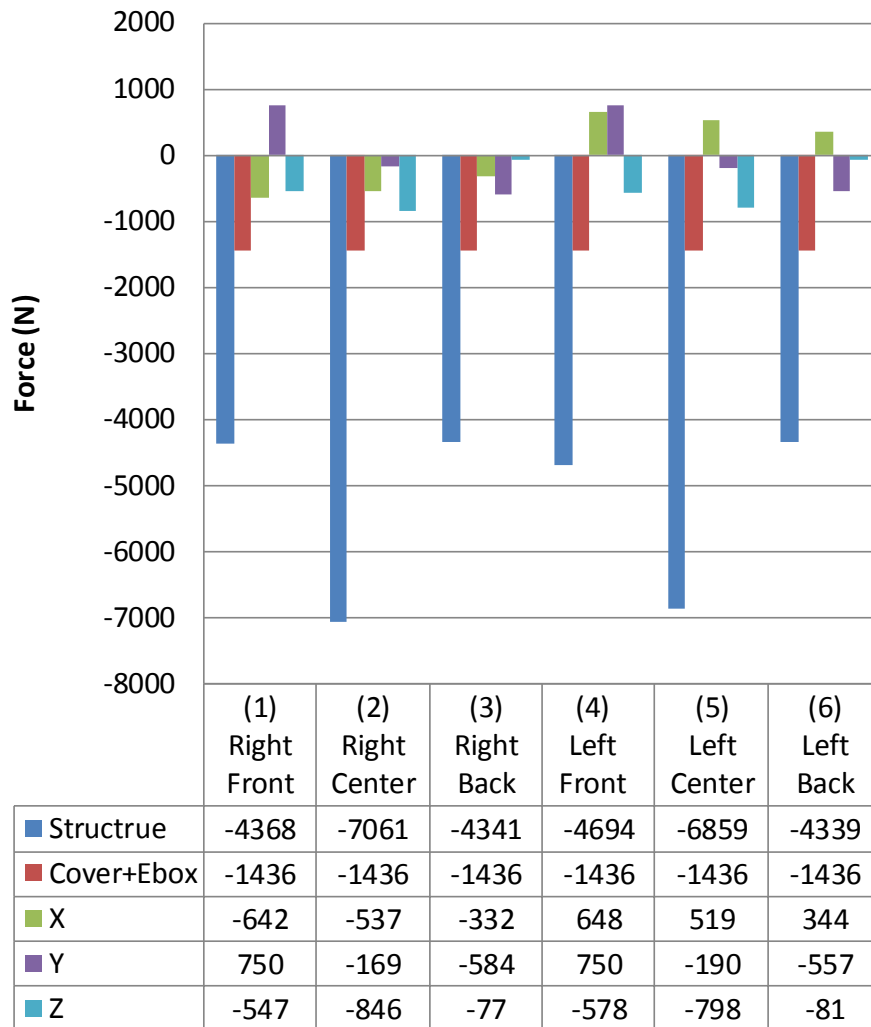
Units = N



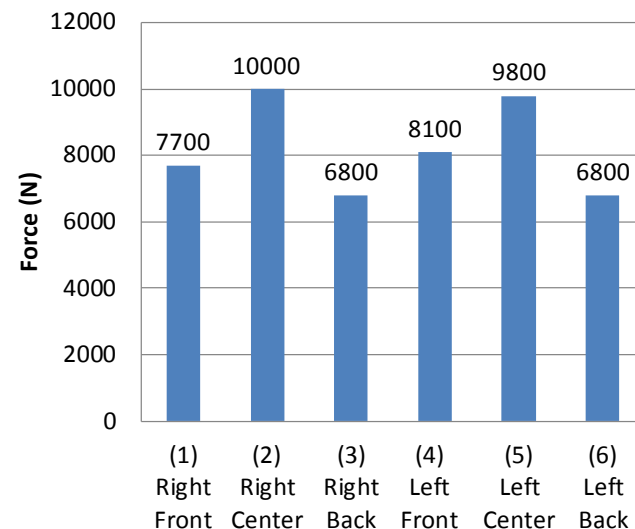
축이송 고려한 최대 바닥 지지하중 (Model 1)



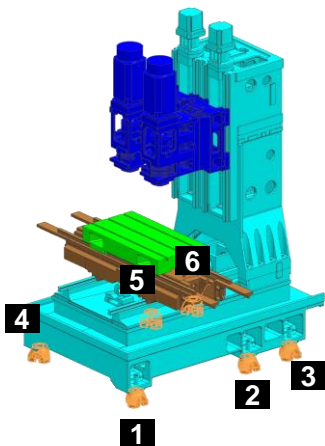
부하 요소별 바닥 하중



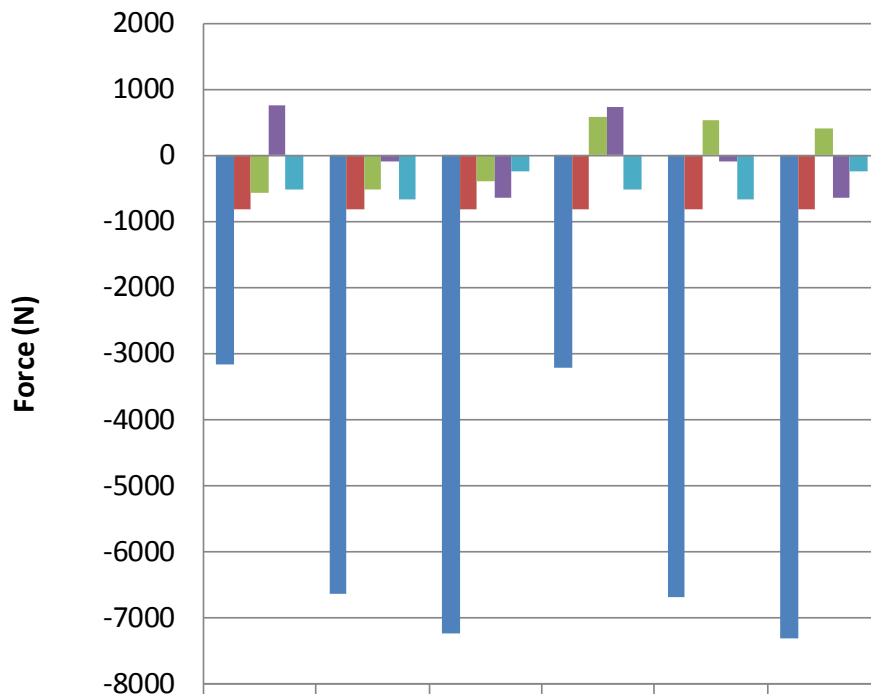
최악 조건 바닥 하중



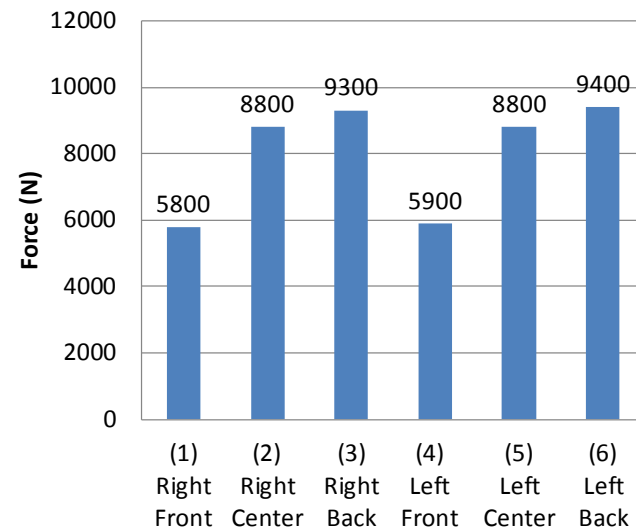
축이송 고려한 최대 바닥 지지하중 (Model 2)



부하 요소별 바닥 하중



최악 조건 바닥 하중



	(1) Right Front	(2) Right Center	(3) Right Back	(4) Left Front	(5) Left Center	(6) Left Back
Structrue	-3171	-6642	-7244	-3230	-6694	-7323
Cover+Ebox	-814	-814	-814	-814	-814	-814
X	-579	-531	-397	579	531	399
Y	745	-105	-640	736	-100	-636
Z	-517	-675	-244	-519	-682	-255