

# Aeroprakt A22LS N270L. S#270. WITH THE DATUM at the Prop Hub Flange. CG must be between 58" and 70" (19%-37%MAC) from Prop Hub

WEIGHT AND BALANCE FOR AIRCRAFT WITH THE DATUM FORWARD OF THE MAIN WHEELS  
 ENTER DATA IN THE RED CELLS AS NEEDED COMPUTED RESULTS IN THE BLUE CELLS  
 ALL WEIGHTS IN LBS, DISTANCES IN INCHES

## PART ONE, EMPTY WEIGHT DATA

IF YOU DON'T KNOW, GO TO PART TWO

ENTER EMPTY AIRCRAFT WEIGHT HERE = 741 LBS  
 ENTER AIRCRAFT EMPTY CG HERE = 59.8 IN.  
 EMPTY AIRCRAFT MOMENT = 44311.8 INCH/LBS

## PART TWO, CALCULATING EMPTY WEIGHT DATA

FIGURING EMPTY WEIGHT CG.

### MAIN WHEELS DATA

### WEIGHTS

RIGHT MAIN WHEEL WEIGHT = 288 LBS

LEFT MAIN WHEEL WEIGHT = 292 LBS

MAIN WHEEL DISTANCE FROM DATUM = 71 IN.

MAIN WHEEL MOMENT = 41180 INCH/LBS

### TAIL WHEEL/NOSE WHEEL DATA

TAIL/NOSE WHEEL WEIGHT = 161 LBS

TAIL/NOSE WHEEL DISTANCE FROM DATUM = 21 IN.

TAIL/NOSE MOMENT = 3381 INCH/LBS

TOTAL WEIGHT = 741 LBS

### CG

### MOMENT

EMPTY WEIGHT CENTER OF GRAVITY DATA 59.8 IN 44311.8 INCH/LBS

### FIGURE FINAL CG BELOW

ENTER THE FOLLOWING AS NEEDED

### SUBJECT

### WEIGHT

### X

### ARM

### X

### MOMENT

AIRCRAFT EMPTY WEIGHT = 741 X 59.8 X 44311.8 INCH/LBS

PILOT WEIGHT = 225 X 63 X 14175 INCH/LBS

PASSENGER WEIGHT = X 63 X 0 INCH/LBS

FUEL WEIGHT (6 LBS/GAL) = 60 X 79 X 4740 INCH/LBS

BAGGAGE WEIGHT = X 91 X 0 INCH/LBS

EXTRA WEIGHT #1 = X 97.5 X 0 INCH/LBS

EXTRA WEIGHT #2 = X X 0 INCH/LBS

EXTRA WEIGHT#3 = X X 0 INCH/LBS

TOTALS 1026 LBS 63226.8 INCH/LBS

AIRCRAFT CENTER OF GRAVITY = 61.62 INCHES FROM DATUM