

TABLE 1-1
MACHINE SPECIFICATIONS



Model HA60UV Serial No. AHI 0103 File No A802.2597A

A. Rotor Mass Limitations

1. Maximum weight: 40,000 lb
2. Minimum weight: 200 lb
3. Maximum weight per support: 20,000 lb
4. Rotor weight x speed (Wn^2) not to exceed: 4000×10^6 lb/min²
5. Rotor polar moment of inertia x speed (Wk^2n^2) not to exceed: 10680×10^6 lb-ft²/min²
6. Maximum sensitivity per plane:

2 oz-in/div.	at:	180-500	rpm
.2 oz-in/div.	at:	390-1000	rpm
.02 oz-in/div.	at:	820-2000	rpm
7. Minimum achievable residual unbalance under ideal rotor conditions
 same as maximum sensitivity but not better than: .000020 inches
 displacement of C.G. Multiply by weight of rotor in grams to obtain minimum achievable residual unbalance in gram-inches.
8. Average unbalance reduction ratio: 95%

B. Rotor Dimensions

1. Maximum diameter over bed: 93 inches
2. Maximum distance from coupling flange to farthest bearing: 228 inches
3. Minimum distance between support bearing centerlines: 10 inches
4. Journal diameters accommodated on ~~one~~ ^{two} set of twin-roller carriages: 2-15.7 inches

C. Drive to Workpiece

1. Two precision U-joint drivers, torque ratings 500 & 1650 ft-lb
2. Balancing speeds infinitely variable from 20-835 rpm in 3 steps.

D. Prime Mover

1. Type of motor: D.C. - SCR cont.
2. Rated power: 40 hp
3. Motor speed: (base) 1750 rpm
4. Power supply: 240/3/50 AC
5. Type of brake: Dynamic
6. Motor and controls in accordance with JIC standards.