|  |  |  |  |
| --- | --- | --- | --- |
| Actuator Description | Number of Pieces | Unit Power | Total Power |
|  | | | |
| Locomotion Motor | 4 pieces | 1000 W | 4000 W |
| High-Power Stepper Motor | 4 pieces | 100 W | 400 W |
|  | | | |
| Stepper Motor (NEMA23) | 1 piece | 9 W | 9 W |
|  | | | |
| 300 mm stroke pneumatic cylinder | 1 piece | 50 W | 50 W |
| 50 mm stroke pneumatic cylinder | 2 pieces | 20 W | 40 W |
| Solenoid valves | 3 pieces | 15 W | 45 W |
| Servo motor | 1 piece | 7.5 W | 7.5 W |
| Stepper motor (NEMA23) | 2 pieces | 9 W | 18 W |
|  | | | |
| Gimbal Stepper Motors (NEMA17) | 2 pieces | 15 W | 30 W |
| Powder gate servo motor | 1 piece | 7.5 W | 7.5 W |
| DC Motor | 1 piece | 35 W | 35 W |

Total Power Requirement = 4000+400+9+50+40+45+7.5+18+30+7.5+35 = 4602 W