

AME40463 Senior Design Project: Spring 2008

Prototype Evaluation Criteria

Date: _____

Group B3: Spinnitech

Overall Rating (out of 90): _____

1. Throughput (15 pts.)

Rating: _____

- 15 pts: Each step finishes in 20 seconds or less
- 10 pts: Three of four steps finish in 20 seconds or less
- 5 pts: Each step finishes in 40 seconds or less
- 0 pts: Steps take longer than 40 seconds to complete

2. Weight (15 pts.)

Rating: _____

- 15 pts: Weight without pellets or battery less than 60 lbs
- 10 pts: Weight without pellets or battery less than 75 lbs
- 5 pts: Weight without pellets or battery less than 100 lbs
- 0 pts: Weight without pellets or battery greater than 100 lbs

3. Accuracy (15 pts.)

Rating: _____

- 15 pts: Pellet dispenser accuracy to 1 oz.
- 10 pts: Pellet dispenser accuracy to 2 oz.
- 5 pts: Pellet dispenser accuracy to 5 oz.
- 0 pts: Pellet dispenser accuracy greater than 5 oz.

4. Structural Integrity (15 pts.)

Rating: _____

- 15 pts: Supports additional 100 lbs.
- 10 pts: Supports additional 75 lbs.
- 5 pts: Supports additional 50 lbs.
- 0 pts: Supports less than 50 lbs.

5. Reliability (10 pts.)

Rating: _____

- 10 pts: Completes each step 9/10 times
- 8 pts: Completes three of four steps 9/10 times
- 5 pts: Completes three of four steps 8/10 times
- 0 pts: Completes three of four steps less than 8/10 times

6. Quality (10 pts.)

Rating: _____

- 10 pts: Each step does not visibly damage cup 9/10 times
- 8 pts: Three out of four steps does not visibly damage cup 9/10 times
- 5 pts: Three out of four steps does not visibly damage cup 8/10 times
- 0 pts: Three out of four steps visibly damages cup more than 8/10 times

7. Cost (10 pts.)

Rating: _____

- 10 pts: No parts more expensive than \$50
- 8 pts: One part more than \$50
- 5 pts: Two parts more than \$50
- 0 pts: More than two parts more than \$50

Comments: