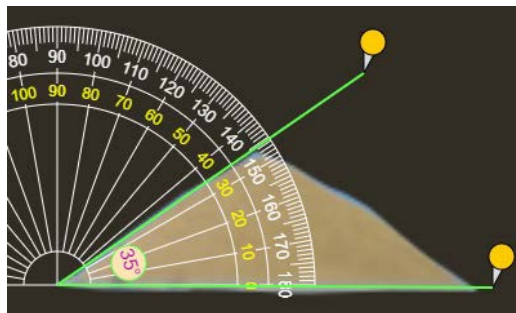


Trial report

Date	June 4,2022	Weather	Fine	Temperature	30.1	Humidity	64%
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		Name of Powder	Iron powder	Bulk density	2.9
Type of raw material	Powder	Image	Smooth	Genre	Metal
Details of raw material					
Angle of repose	35°		Cohesiveness	Normal	
					
Fig.1 Angle of repose 35° Bridge measures is unnecessary			Fig.2 condition Fine-grained powder, does not harden if we grasps		

Comments
This iron powder is finely smooth and non-sticky, it was be able to discharged without using a bridge breaker (Fig.1, Fig.2). We measured the amount of discharged powder in every 10 seconds (Table 1). The varying quality of discharged amount was $\pm 4\%$ in the range of 200~215g.

Weighing method	Volumetric	Timer	10sec	Aim value	210 g/10sec																																																															
<table><tr><td>No.</td><td>Discharged weight(g)</td><td>Timer (second)</td></tr><tr><td>1</td><td>207.0</td><td>10.0</td></tr><tr><td>2</td><td>211.4</td><td>10.0</td></tr><tr><td>3</td><td>208.6</td><td>10.0</td></tr><tr><td>4</td><td>207.1</td><td>10.0</td></tr><tr><td>5</td><td>209.8</td><td>10.0</td></tr><tr><td>6</td><td>207.2</td><td>10.0</td></tr><tr><td>7</td><td>211.0</td><td>10.0</td></tr><tr><td>8</td><td>207.3</td><td>10.0</td></tr><tr><td>9</td><td>21.0</td><td>10.0</td></tr><tr><td>10</td><td>212.3</td><td>10.0</td></tr><tr><td>11</td><td>200.3</td><td>10.0</td></tr><tr><td>12</td><td>215.4</td><td>10.0</td></tr><tr><td>13</td><td>206.3</td><td>10.0</td></tr><tr><td>14</td><td>206.4</td><td>10.0</td></tr><tr><td>15</td><td>210.5</td><td>10.0</td></tr><tr><td>16</td><td>210.3</td><td>10.0</td></tr><tr><td>17</td><td>205.0</td><td>10.0</td></tr><tr><td>18</td><td>209.9</td><td>10.0</td></tr><tr><td>19</td><td>209.9</td><td>10.0</td></tr><tr><td>20</td><td>208.3</td><td>10.0</td></tr></table>						No.	Discharged weight(g)	Timer (second)	1	207.0	10.0	2	211.4	10.0	3	208.6	10.0	4	207.1	10.0	5	209.8	10.0	6	207.2	10.0	7	211.0	10.0	8	207.3	10.0	9	21.0	10.0	10	212.3	10.0	11	200.3	10.0	12	215.4	10.0	13	206.3	10.0	14	206.4	10.0	15	210.5	10.0	16	210.3	10.0	17	205.0	10.0	18	209.9	10.0	19	209.9	10.0	20	208.3	10.0
No.	Discharged weight(g)	Timer (second)																																																																		
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20	208.3	10.0																																																																		
Averages : 208.7 g/10sec Maximun value : 215.4 g/10sec Minimum value : 200.3 g/10sec An hour conversion : 75.1 kg/hour																																																																				
Test scene movie https://www.youtube.com/watch?v=v61DXOdPxVs Company Profile Video https://www.youtube.com/watch?v=1FRYOZq009c																																																																				
Table 1 Discharged weight in every 10 seconds																																																																				

Machine's specification	Appearance
Type of machine	Screw feeder
Feeder size	φ48.6
Type of screw	Standard
Hopper	20L
Agitator	-
Special notes	 Fig.3 Test equipments
Ratio of reduction gear:1/10	
<Method of control> Inverter(keeping 27rpm(9Hz) Timer(10second)	

Appearance of trial	
	
Fig.6 Type of screw : Standard	Fig.4 Discharging scene