

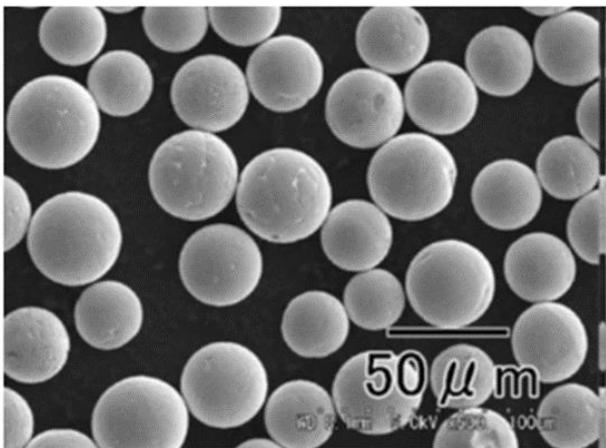
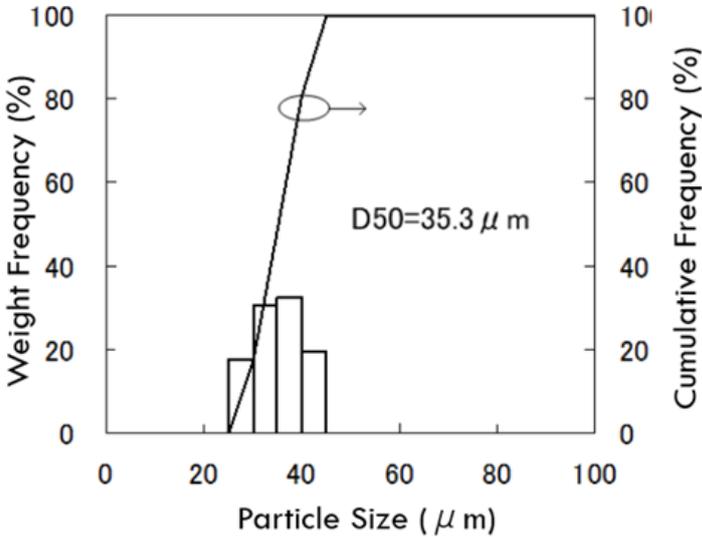
TECHNICAL LEAFLET

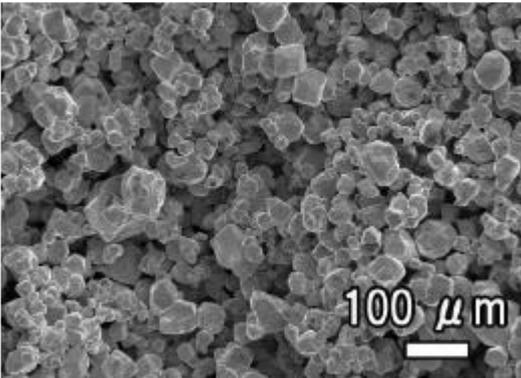
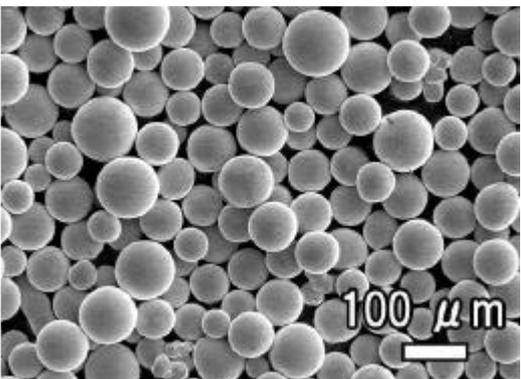
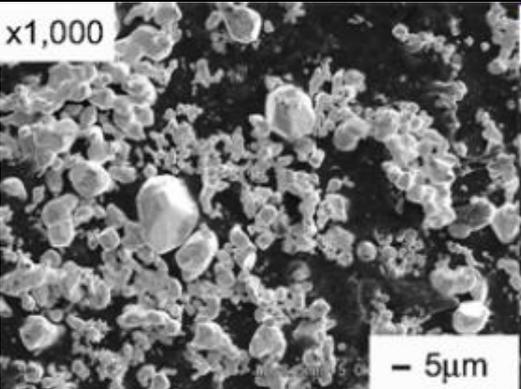
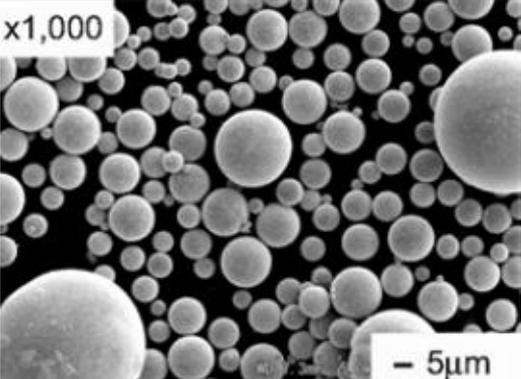
Contract Manufacturing of Spheroidizing Metal Powders for 3D Printers (AM)

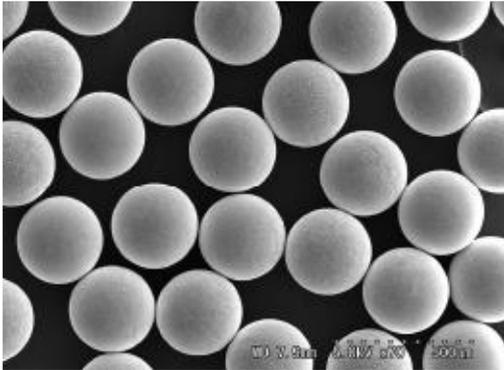
1. Properties

- ◇ The products are finely divided and spheroidized metal powders developed for metal 3D printers.
- ◇ Various types of metals (particularly high melting point materials) can be made into fine particles and spherical.
- ◇ We can supply metal powders with good fluidity due to their sharp particle size distributions and spherical shapes.

2. Features of Metal Powders

Features	Tungsten Carbide (WC)															
SEM Photomicrographs	 <p>The SEM photomicrograph shows numerous spherical tungsten carbide particles of varying sizes. A scale bar in the bottom right corner indicates a length of 50 μm. The particles appear uniform in shape and are well-dispersed.</p>															
Particle Size Distribution	 <p>The graph displays the particle size distribution for tungsten carbide. The x-axis represents Particle Size (μm) from 0 to 100. The left y-axis represents Weight Frequency (%) from 0 to 100. The right y-axis represents Cumulative Frequency (%) from 0 to 100. A histogram shows the weight frequency distribution, and a cumulative distribution curve is overlaid. The D50 value is indicated as 35.3 μm.</p> <table border="1"> <caption>Approximate data from the Particle Size Distribution graph</caption> <thead> <tr> <th>Particle Size (μm)</th> <th>Weight Frequency (%)</th> <th>Cumulative Frequency (%)</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>18</td> <td>18</td> </tr> <tr> <td>30</td> <td>32</td> <td>50</td> </tr> <tr> <td>35</td> <td>35</td> <td>82</td> </tr> <tr> <td>40</td> <td>20</td> <td>100</td> </tr> </tbody> </table>	Particle Size (μm)	Weight Frequency (%)	Cumulative Frequency (%)	25	18	18	30	32	50	35	35	82	40	20	100
Particle Size (μm)	Weight Frequency (%)	Cumulative Frequency (%)														
25	18	18														
30	32	50														
35	35	82														
40	20	100														

Features	Spherical Tungsten	
SEM Photomicrographs <i>Before Spheroidizing</i>		
SEM Photomicrographs <i>After Spheroidizing</i>		
Features	Spherical Iridium	
SEM Photomicrographs <i>Before Spheroidizing</i>		
SEM Photomicrographs <i>After Spheroidizing</i>		

Features	Spherical Kovar
SEM Photomicrographs	
Particle Size Distribution	