**SSS-I Wet High Gradient Separator of Double Frequency and Double Upright Ring**

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**SSS-I High Gradient Separator**

The machine can separate weakly magnetic minerals, moderately magnetic minerals and can remove impurities for the purification in the non-metallic minerals. Some typical applications are shown below:  
Ferrous metal ore: Recovery of specular hematite, hematite, limonite, siderite, chromite, manganese ores, etc.  
Nonferrous metal ore: Separation of fine embeded wolframite from quartz, magnetic pyrite from cassiterite in a polymetallic sulfide ore, and cassiterite, wolframite from limonite, etc. Separation of tungsten, wolframite from garnet, etc.  
Rare metal: Recovery of titanium iron ore, iron and tantalum-niobium ore, lithium mica, monazite, and phosphorus yttrium ore. Separation of lithium pyroxene from hornblende, tantalum from niobium, iron ore from microlite, titanium iron ore from man-made rutile, and rutile from garnet etc.  
Nonmetalliferous ores: Purification of glass ceramics industrial raw materials like quartz, feldspar and kaolin, Purification of high-temperature refractory silicates like andalusite & kyanite. Elimination of iron, hornblende, mica, electrical stone, garnet and other harmful impurities, etc.  
Other applications: Wastewater treatment for steel mills and power plants or removing catalyst pollution from chemical raw materials.

**详细信息**

**Technical specification**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model  Specification | **SSS-I-500** | **SSS-I-800** | **SSS-I-1000** | **SSS-I-1200** | **SSS-I-1500** | **SSS-I-1750** | **SSS-I-2000** | **SSS-I-2500** | **SSS-I-3000(1.3T)** |
| Ring diameters（mm） | 500 | 800 | 1000 | 1200 | 1500 | 1750 | 2000 | 2500 | 3000 |
| Magnetic induction field,(T) | 0~1.2 | 0~1.0 | 0~1.0 | 0~1.0 | 0~1.0 | 0~1.0 | 0~1.0 | 0~1.0 | 0~1.0(1.3) |
| Medium | Magnetic stainless rods | | | | | | | | |
| Capacity dry feed（t·h-1） | 0.3~1.0 | 1.0~3.0 | 4~8 | 8~18 | 10~30 | 20~50 | 30~80 | 60~150 | 150~250 |
| Slurry throughput（m3/h） | 0~10 | 0~30 | 0~50 | 0~100 | 0~150 | 0~200 | 0~300 | 0~500 | 0~650 |
| Feed size（mm） | ≤1 | ≤1 | ≤1 | ≤1 | ≤1 | ≤1 | ≤1 | ≤1 | ≤1 |
| Feed concentration（%） | 10~40 | 10~40 | 10~40 | 10~40 | 10~40 | 10~40 | 10~40 | 10~40 | 10~40 |
| Pulsating Stroke（mm） | 0~16 | 0~24 | | | | | | | 0~30 |
| Pulsating Frequency (Hz-Cycles/Min) | 0~136 | 0~280 | | | | | | | |
| Water pressure（Mpa） | 0.1~0.2 | 0.1~0.2 | 0.2~0.3 | 0.2~0.3 | 0.2~0.3 | 0.2~0.3 | 0.2~0.3 | 0.2~0.3 | 0.2~0.5 |
| Flush water volume（m3/h） | 1.0~2.0 | 5~8 | 8~16 | 25~40 | 50~80 | 70~100 | 90~120 | 180~250 | 300~480 |
| Cooling water volume（m3/h） | 1.0~2.0 | 1.5~2 | 2~2.5 | 2~3 | 2.5~3.5 | 3 ~4 | 4~5 | 5~8 | 8~10 |
| Rated power（kW） | 14 | 18 | 24 | 30 | 41 | 46 | 59 | 64 | 90(104) |
| Ring motor power（kW） | 0.25 | 1.5 | 2.2 | 2.2 | 3 | 5.5 | 5.5 | 11 | 18.5 |
| Jigging motor power（kW） | 0.55×2 | 1.5×2 | 1.5×2 | 1.5×2 | 2.2×2 | 2.2×2 | 2.2×2 | 7.5×2 | 18.5×2 |
| Blower motor power（kW） | 2.2 | 4 | 4 | 4 | 5.5 | 7.5 | 7.5 | 11 | 18.5 |
| Total machine weight /t | 2 | 5 | 9 | 13 | 22 | 32 | 46 | 89 | 148(168) |
| The heaviest part /t | 2 | 5 | 9 | 13 | 8 | 13 | 15 | 15 | 18.5 |
| Separator dimension  Long×width× high,(mm) | 1430\*1045 \*1780 | 2450\*2005 \*2100 | 2840\*2010 \*2250 | 2960\*2130 \*2580 | 3400\*2680 \*3280 | 4100\*3010 \*3530 | 4160\*3260 \*3900 | 5751\*4409 \*4968 | 7832\*5123\*6331 (7832\*5153\*6576) |

Previous: No Information