

| <b>100 HE Plasma Parameters</b> |                    |                      |               |                   |                   |                 |           |           |              |                    |               |                |
|---------------------------------|--------------------|----------------------|---------------|-------------------|-------------------|-----------------|-----------|-----------|--------------|--------------------|---------------|----------------|
| <b>Ceramics</b>                 |                    |                      |               | <b>Hardware</b>   |                   | <b>Gas SCFH</b> |           |           | <b>Power</b> | <b>Powder Feed</b> |               | <b>Torch</b>   |
| <b>Powder</b>                   | <b>Composition</b> | <b>Particle Size</b> | <b>Nozzle</b> | <b>Pwdr Ports</b> | <b>Ext Attach</b> | <b>Ar</b>       | <b>N2</b> | <b>H2</b> | <b>GV/KW</b> | <b>Gr/min</b>      | <b>Cr Gas</b> | <b>Std Off</b> |
| Hochrhein                       | Pure AIO           | 5-25 micron          | 841143        | Short-.100        | 2-Port            | 180             | 120       | 140       | 243/95       | 40                 | 30            | 4.5 in         |
| PX 4005.1                       | Pure AIO           | 20-45 micron         | 841143        | Short-.100        | 3-Port            | 180             | 120       | 140       | 250/95       | 100                | 50            | 4.5 in         |
| HC 742.850                      | 97 AIO/TiO 3       | 10-90 micron         | 841143        | Short-.100        | 2-Port            | 220             | 100       | 120       | 250/85       | 70                 | 40            | 4.5 in         |
| HC 744.0                        | 87 AIO/TiO 13      | 22.5-5micron         | 866695        | Med-.073          | 3-Port            | 180             | 120       | 140       | 252/95       | 80                 | 55            | 4.5 in         |
| SM 130 NS                       | 87 AIO/TiO 13      | 15-53 micron         | 841143        | Short-.100        | 2-Port            | 180             | 120       | 120       | 223/95       | 90                 | 30            | 4.5 in         |
| SG 106                          | 85 AIO/TiO 15      | 15-45 micron         | 841121        | NA                | NA                | 220             | 100       | 100       | 229/80       | 80                 | 18            | 4.5 in         |
| HC 750.0                        | 60 AIO/YZRO 40     | 5-22 micron          | 841143        | Short-.100        | 2-Port            | 180             | 100       | 140       | 244/95       | 50                 | 40            | 4.5 in         |
| SM                              | Pure CRO           | 22-44 micron         | 210570        | Short-.100        | 2-Port            | 180             | 120       | 60        | 232/87       | 80                 | 22            | 4.5 in         |
| PX CRO-214                      | Pure CRO           | 20-45 micron         | 210570        | Short-.100        | 3-Port            | 180             | 120       | 90        | 237/90       | 100                | 45            | 5.0 in         |
| HC 703.1                        | Pure CRO           | 22-45 micron         | 841121        | NA                | NA                | 180             | 115       | 0         | 219/87       | 80                 | 24            | 4.5 in         |
| HC 703.053                      | Pure CRO           | 10-25 micron         | 210570        | Short-.100        | 3-Port            | 180             | 115       | 90        | 228/90       | 100                | 60            | 5.0 in         |
| HC 703.053                      | Pure CRO           | 10-25 micron         | 210570        | Short-.100        | 3-Port            | 220             | 120       | 80        | 234/90       | 150                | 50            | 5.0 in         |
| HC 704.053                      | Pure CRO           | 10-25 micron         | 210570        | Short-.100        | 3-Port            | 220             | 120       | 70        | 236/90       | 100                | 45            | 6.0 in         |
| HC 704.0                        | Pure CRO           | 5-22 micron          | 866695        | Med-.073          | 2-Port            | 200             | 100       | 100       | 224/95       | 85                 | 20            | 5.0 in         |
| SG 2020                         | Pure CRO           | 10-45 micron         | 210570        | Short-.100        | 3-Port            | 180             | 100       | 100       | 231/95       | 100                | 45            | 5.0 in         |
| SG 3032                         | Pure CRO           | 10-30 micron         | 210570        | Short-.100        | 3-Port            | 180             | 100       | 100       | 230/90       | 120                | 60            | 5.0 in         |
| SG 3032                         | Pure CRO           | 10-30 micron         | 210570        | Short-.100        | 3-Port            | 180             | 100       | 100       | 228/90       | 150                | 50            | 5.0 in         |
| SG                              | Pure CRO           | 5-15 micron          | 210570        | Short-.100        | 3-Port            | 220             | 100       | 100       | 237/90       | 100                | 60            | 5.0 in         |
| SG                              | Ruby               | 10-45 micron         | 210570        | Short-.100        | 3-Port            | 200             | 100       | 80        | 227/95       | 100                | 45            | 4.5 in         |
| SG 890                          | Ruby               | 10-30 micron         | 210570        | Short-.100        | 3-Port            | 220             | 100       | 100       | 237/95       | 100                | 60            | 5.0 in         |
| SG 1001                         | Pure TiO           | 10-63 micron         | 841143        | Short-.100        | 2-Port            | 180             | 120       | 120       | 223/95       | 90                 | 30            | 4.5 in         |
| HC 782.2                        | Pure TiO           | 45-90 micron         | 841143        | Short-.100        | 3-Port            | 180             | 100       | 120       | 230/80       | 80                 | 40            | 6.0 in         |
| HC 782.2                        | Pure TiO           | 45-90 micron         | 841143        | Short-.100        | 3-Port            | 180             | 120       | 120       | 223/95       | 90                 | 40            | 4.5 in         |
| HC 782.2                        | Pure TiO           | 45-90 micron         | 841143        | Short-.100        | 3-Port            | 180             | 100       | 80        | 229/60       | 100                | 40            | 6.0 in         |
| HC 782.2                        | Pure TiO           | 45-90 micron         | 841143        | Short-.100        | 3-Port            | 180             | 100       | 80        | 229/60       | 120                | 40            | 6.0 in         |
| HC 782.2                        | Pure TiO           | 45-90 micron         | 841143        | Short-.100        | 3-Port            | 180             | 100       | 80        | 229/60       | 140                | 40            | 6.0 in         |
| HC 782.2                        | Pure TiO           | 45-90 micron         | 841143        | Short-.100        | 3-Port            | 180             | 100       | 80        | 229/60       | 180                | 40            | 7.0 in         |
| HC 782.2                        | Pure TiO           | 45-90 micron         | 841143        | Short-.100        | 3-Port            | 180             | 100       | 80        | 229/60       | 220                | 30            | 7.0 in         |
| SM 102                          | Pure TiO           | 7.8-88 micron        | 841143        | Short-.100        | 3-Port            | 180             | 100       | 140       | 238/95       | 100                | 40            | 4.5 in         |
| SM 210 NS                       | 24 MgO/ZrO 76      | 11-53 micron         | 841143        | Short-.100        | 2-Port            | 180             | 100       | 140       | 247/95       | 100                | 22            | 5.5 in         |
| SM 210                          | 24 MgO/ZrO 76      | 11-53 micron         | 841143        | Short-.100        | 2-Port            | 180             | 120       | 140       | 243/95       | 75                 | 40            | 4.5 in         |
| SM 210                          | 24 MgO/ZrO 76      | 11-53 micron         | 841143        | Short-.100        | 2-Port            | 180             | 100       | 140       | 240/95       | 100                | 45            | 4.5 in         |
| SM 204B-NS                      | 7 Y/ZrO 93         | 45-75 micron         | 841143        | Short-.100        | 2-Port            | 170             | 120       | 150       | 240/110      | 80                 | 40            | 4.5 in         |
| SM 204 NS                       | 7 Y/ZrO 93         | 11-125 micron        | 841143        | Short-.100        | 2-Port            | 180             | 100       | 140       | 212/98       | 80                 | 25            | 4.5 in         |

| <b>100 HE Plasma Parameters</b> |                          |                      |               |                   |                   |                 |           |           |              |                    |               |                 |
|---------------------------------|--------------------------|----------------------|---------------|-------------------|-------------------|-----------------|-----------|-----------|--------------|--------------------|---------------|-----------------|
| <b>Ceramics</b>                 |                          |                      |               | <b>Hardware</b>   |                   | <b>Gas SCFH</b> |           |           | <b>Power</b> | <b>Powder Feed</b> |               | <b>Torch</b>    |
| <b>Powder</b>                   | <b>Composition</b>       | <b>Particle Size</b> | <b>Nozzle</b> | <b>Pwdr Ports</b> | <b>Ext Attach</b> | <b>Ar</b>       | <b>N2</b> | <b>H2</b> | <b>GV/KW</b> | <b>Gr/min</b>      | <b>Cr Gas</b> | <b>Stnd Off</b> |
| HC 825.0                        | 7 Y/ZrO 93               | 5-22 micron          | 866695        | Med-.073          | 3-Port            | 180             | 120       | 150       | 256/100      | 50                 | 40            | 4.5 in          |
| HC 825.1 dvc                    | 7 Y/ZrO 93               | 22-45 micron         | 841143        | Short-.100        | 2-Port            | 180             | 120       | 120       | 241/95       | 50                 | 25            | 2.5 in          |
| HC 825.242                      | 7 Y/ZrO 93               | 10-90 micron         | 841143        | Short-.100        | 2-Port            | 180             | 120       | 140       | 245/95       | 80                 | 30            | 4.5 in          |
| HC 827.873                      | 7 Y/ZrO 93               | 20-106 micron        | 841143        | Short-.100        | 3-Port            | 180             | 120       | 140       | 198/100      | 220                | 50            | 4.5 in          |
| HC 827.873                      | 7 Y/ZrO 93               | 20-106 micron        | 841143        | Short-.100        | 3-Port            | 180             | 100       | 140       | 240/95       | 220                | 45            | 6.0 in          |
| HC 827.873                      | 7 Y/ZrO 93               | 20-106 micron        | 841143        | Short-.100        | 3-Port            | 180             | 120       | 150       | 243/100      | 300                | 50            | 4.5 in          |
| HC 827.873 dvc                  | 7 Y/ZrO 93               | 20-106 micron        | 841143        | Short-.100        | 3-Port            | 180             | 120       | 140       | 241/95       | 200                | 40            | 3.0 in          |
| SG 204F                         | 7 Y/ZrO 93               | 10-45 micron         | 841143        | Short-.100        | 2-Port            | 180             | 120       | 140       | 243/95       | 80                 | 30            | 5.0 in          |
| SG 204                          | 7 Y/ZrO 93               | 11-125 micron        | 841143        | Short-.100        | 2-Port            | 180             | 120       | 140       | 236/95       | 95                 | 20            | 4.5 in          |
|                                 |                          |                      |               |                   |                   |                 |           |           |              |                    |               |                 |
| <b>Old Gun</b>                  | <b>External Hardware</b> | <b>Parameters</b>    |               |                   |                   |                 |           |           |              |                    |               |                 |
|                                 |                          |                      |               |                   |                   |                 |           |           |              |                    |               |                 |
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