**DRAGONFLY size measurement results**

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| **DRAGONFLY** |

Unit: mm

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| Width in -Z Plane  100mm  2.1.2 (2) | +X Plane | 99.96 | |
| 99.94 | |
| 99.95 | |
| 99.94 | |
| 99.93 | |
| +Y Plane | 99.97 | |
| 99.93 | |
| 99.96 | |
| 99.95 | |
| 99.95 | |
| -X Plane | 99.94 | |
| 99.95 | |
| 99.96 | |
| 99.95 | |
| 99.95 | |
| -Y Plane | 99.95 | |
| 99.97 | |
| 99.95 | |
| 99.94 | |
| 99.96 | |
| Width in +Z Plane  100mm  2.1.2 (2) | +X Plane | 99.94 | |
| 99.94 | |
| 99.92 | |
| 99.95 | |
| 99.93 | |
| +Y Plane | 99.94 | |
| 99.94 | |
| 99.95 | |
| 99.94 | |
| 99.93 | |
| -X Plane | 99.95 | |
| 99.96 | |
| 99.94 | |
| 99.96 | |
| 99.95 | |
| -Y Plane | 99.95 | |
| 99.97 | |
| 99.95 | |
| 99.95 | |
| 99.98 | |
| Rail Length  227 mm  2.1.2(3) ~ (9) | Rail 1 | 227.04 | |
| 227.01 | |
| 227.02 | |
| Rail 2 | 226.99 | |
| 227.01 | |
| 227.01 | |
| Rail 3 | 226.98 | |
| 226.99 | |
| 227.00 | |
| Rail 4 | 224.95 | |
| 224.96 | |
| 224.99 | |
| Rail Width  8.5mm  2.1.3 (3) | Rail 1  (+X, -Y) | 8.52 | 8.53 |
| 8.52 | 8.52 |
| 8.53 | 8.52 |
| Rail 2  (-X, -Y) | 8.52 | 8.52 |
| 8.53 | 8.53 |
| 8.52 | 8.52 |
| Rail 3  (-X, +Y) | 8.51 | 8.54 |
| 8.53 | 8.51 |
| 8.52 | 8.51 |
| Rail 4  (+X, +Y) | 8.54 | 8.53 |
| 8.52 | 8.52 |
| 8.54 | 8.54 |
| Rails Surface Area  (+Z Plane | Rail 1  (+X, -Y) | 6.51 | 6.52 |
| 6.52 | 6.51 |
| 6.51 | 6.51 |
| Rail 2  (-X, -Y) | 6.52 | 6.52 |
| 6.51 | 6.51 |
| 6.51 | 6.52 |
| Rail 3  (-X, +Y) | 6.52 | 6.51 |
| 6.51 | 6.52 |
| 6.52 | 6.51 |
| Rail 4  (+X, +Y) | 6.51 | 6.51 |
| 6.52 | 6.52 |
| 6.51 | 6.52 |
| Rail Contact Length with J-SSOD Rail Guides  170.3mm  2.1.3 (7) | Rai1  (+X, -Y) | 226.79 | 226.80 |
| 226.81 | 226.82 |
| 226.83 | 226.80 |
| Rail2  (-Y, -X) | 226.86 | 226.82 |
| 226.83 | 226.83 |
| 226.86 | 226.82 |
| Rail3  (-X, +Y) | 226.87 | 226.86 |
| 226.85 | 226.85 |
| 226.85 | 226.85 |
| Rail4  (+Y, +X) | 224.63 | 224.62 |
| 224.69 | 224.64 |
| 224.65 | 224.63 |
| Envelope  2.1.4 (2) ~ (4) | +X Plane | 2.00 | |
| 2.00 | |
| 2.01 | |
| +Y Plane | 6.31 | |
| 6.41 | |
| 6.42 | |
| -X Plane | 2.00 | |
| 1.98 | |
| 2.00 | |
| -Y Plane | 6.34 | |
| 6.34 | |
| 6.44 | |
| +Z Plane | -0.56 | |
| -0.58 | |
| -0.57 | |
| -Z Plane | -5.51 | |
| -5.49 | |
| -5.50 | |
| Mass  2.1.5 (1) | 1.758 kg | | |
| Rails Perpendicularity against +Y Plane  ≦0.2 | Rail 1, +X | 0.00 | |
| Rail 2, -X | 0.00 | |
| Rail 3, -X | 0.00 | |
| Rail4, +X | 0.04 | |
| Rails Perpendicularity against +Z Plane  ≦0.2 | Rail 1, +X | 0.04 | |
| 0.05 | |
| 0.04 | |
| 0.04 | |
| 0.04 | |
| Rail 1, -Y | 0.04 | |
| 0.04 | |
| 0 | |
| 0.04 | |
| 0.04 | |
| Rail 2, -Y | 0 | |
| 0 | |
| 0 | |
| 0.04 | |
| 0 | |
| Rail 2, -X | 0.04 | |
| 0.06 | |
| 0.04 | |
| 0.04 | |
| 0 | |
| Rail 3, -X | 0 | |
| 0.04 | |
| 0.04 | |
| 0.04 | |
| 0 | |
| Rail 3, +Y | 0.04 | |
| 0.04 | |
| 0 | |
| 0 | |
| 0 | |
| Rail 4, +Y | 0 | |
| 0 | |
| 0 | |
| 0 | |
| 0.04 | |
| Rail 4, +X | 0.04 | |
| 0 | |
| 0 | |
| 0 | |
| 0 | |
| Rails Parallelism against +Y Plane  ≦0.2 | Rail 1, -Y | -0.02 | |
| 0.08 | |
| Rail 2, -Y | -0.03 | |
| 0.05 | |
| Rail Edges Flatness on +Z Plane  ≦0.2 | Rail 1 | 0.00 | |
| 0.00 | |
| Rail 2 | 0.00 | |
| 0.00 | |
| Rail 3 | 0.00 | |
| 0.00 | |
| Rail 4 | 0.00 | |
| 0.04 | |

**Hard anodized processing and Surface roughness certificates**

A white paper with black text

Description automatically generated

A paper with text and numbers

Description automatically generated

**Width in -Z Plane**

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|  |
| **Figure1. Width in -Z Plane (+X Plane)** |

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| --- |
|  |
| **Figure2. Width in -Z Plane (+Y Plane)** |

|  |
| --- |
|  |
| **Figure3. Width in -Z Plane (-X Plane)** |

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| --- |
|  |
| **Figure4. Width in -Z Plane (-Y Plane)** |

**Width in +Z Plane**

|  |
| --- |
|  |
| **Figure5. Width in +Z Plane (+X Plane)** |

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|  |
| **Figure6. Width in +Z Plane (+Y Plane)** |

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|  |
| **Figure7. Width in +Z Plane (-X Plane)** |

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| **Figure8. Width in +Z Plane (-Y Plane)** |

**Rail Length**

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| **Figure9. Rail Length (Rail 1)** |

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| **Figure10. Rail Length (Rail 2)** |

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| **Figure11. Rail Length (Rail 3)** |

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|  |
| **Figure12. Rail Length (Rail 4)** |

**Rail Perpendicularity against +Z Plane**

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|  |
| **Figure13. Rail Perpendicularity against +Z Plane (Rail 1, +X)** |

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|  |
| **Figure14. Rail Perpendicularity against +Z Plane (Rail 1, -Y)** |

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|  |
| **Figure15. Rail Perpendicularity against +Z Plane (Rail 2, -Y)** |

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|  |
| **Figure16. Rail Perpendicularity against +Z Plane (Rail 2, -X)** |

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|  |
| **Figure17. Rail Perpendicularity against +Z Plane (Rail 3, -X)** |

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|  |
| **Figure18. Rail Perpendicularity against +Z Plane (Rail 3, +Y)** |

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|  |
| **Figure19. Rail Perpendicularity against +Z Plane (Rail 4, +Y)** |

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|  |
| **Figure20. Rail Perpendicularity against +Z Plane (Rail 4, +X)** |

**Rails Perpendicularity against +Y Plane**

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|  |
| **Figure21. Rail Perpendicularity against +Y Plane (Rail 1, +X)** |

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|  |
| **Figure22. Rail Perpendicularity against +Y Plane (Rail 2, -X)** |

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|  |
| **Figure23. Rail Perpendicularity against +Y Plane (Rail 3, -X)** |

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|  |
| **Figure24. Rail Perpendicularity against +Y Plane (Rail 4, +X)** |

**Rails Parallelism against +Y Plane**

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|  |
| **Figure25. Rails Parallelism against +Y Plane (Rail 1, -Y) [Left：Min, Right：Max]** |

|  |
| --- |
|  |
| **Figure26. Rails Parallelism against +Y Plane (Rail 2, -Y) [Left：Min, Right：Max]** |

**Rail Edges Flatness on +Z Plane**

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|  |
| **Figure27. Rail Edges Flatness on +Z Plane (Rail 1)** |

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|  |
| **Figure28. Rail Edges Flatness on +Z Plane (Rail 2)** |

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|  |
| **Figure29. Rail Edges Flatness on +Z Plane (Rail 3)** |

|  |
| --- |
|  |
| **Figure30. Rail Edges Flatness on +Z Plane (Rail 4)** |

**Rail Width**

|  |  |
| --- | --- |
|  |  |
| **Figure31. Rail Width (Rail 1 +X left, -Y Right)** | |

|  |  |
| --- | --- |
|  |  |
| **Figure32. Rail Width (Rail 2 -X left, -Y Right)** | |

|  |  |
| --- | --- |
|  |  |
| **Figure33. Rail Width (Rail 3 -X left, +Y Right)** | |

|  |  |
| --- | --- |
|  |  |
| **Figure34. Rail Width (Rail 4 +X left, +Y Right)** | |

**Absence of Burr**

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|  |
| **Figure35. +Z (Rail 1)** |

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|  |
| **Figure36. +Z (Rail 2)** |

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| **Figure37. +Z (Rail 3)** |

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|  |
| **Figure38. +Z(Rail 4)** |

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|  |
| **Figure39. -Z (Rail 1)** |

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|  |
| **Figure40. -Z (Rail 2)** |

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|  |
| **Figure 41. -Z (Rail 3)** |
|  |
| **Figure 42. -Z (Rail 4)** |

**Envelope**

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| **Figure43. Envelope (+Z Plane)** |

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|  |
| **Figure44. Envelope (-Z Plane)** |

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|  |
| **Figure45. Envelope (+X Plane)** |

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|  |
| **Figure46. Envelope (+Y Plane)** |

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|  |
| **Figure47. Envelope (-X Plane)** |

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| **Figure48. Envelope (-Y Plane)** |

**DepSW fit into the rail end face**

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| **Figure49. DepSW fits into the rail 1 end face** |
|  |
| **Figure50. DepSW fits into the rail 2 end face** |
|  |
| **Figure51. DepSW fits into the rail 3 end face** |

**Mass**

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|  |
| **Figure50. Mass** |