



Best choice.

Renaissance Group Inspection Report Sample

**Byspeed 3015 4KW
Job Number #####**



Resonator

1. Perform vacuum test 1-hour
2. Glass tubes
3. Cathode flange
4. High voltage wires
5. HV wire ring connectors
6. Fold mirrors
7. Polarizing mirror
8. End mirror
9. Output window
10. Telescopic mirror CC 2.0m
11. Telescopic mirror CX 1.4m
12. Concave mirror
13. 60mm fold mirrors
14. 50mm fold mirrors
15. Bypos mirror
16. Resonator circulation fans
17. Auxiliary cathodes
18. Cathodes
19. Glassware o-rings
20. Anodes
21. Resistors
22. Dirt Traps
23. Resonator water cooling lines
24. Laser gas lines
25. Clean resonator mounting blocks
26. Clean internal resonator plenum
27. Sonic clean ceramics
28. Run resonator using cleaning plugs
29. Perform 1-hour vacuum test
30. Perform 8-hour burn in using cleaning plugs
31. Internal alignment
32. Check mode at resonator
33. Check mode at head
34. Align near and far field
35. Resonator safety switches operation
36. Clean resonator Plexiglas covers
37. Test resonator AC function
38. Replace vacuum pump oil
39. Replace vacuum pump filter
40. Turbo
41. Turbo water cooling lines
42. Turbo burn in procedure
43. High voltage cabinet
44. Pento-tubes
45. Pento-tube capacitors
46. High voltage rack circuiting fans
47. Test gas mix chassis function

Chiller

48. Blow out Air intake filters
49. Blow out Condenser
50. Test conductivity of compressor leads
51. Laser fluid supply hose
52. Laser fluid return hose



53. Optic fluid supply hose
54. Optic fluid return hose
55. Laser fluid filter input pressure gage
56. Laser fluid filter output pressure gage
57. Optic fluid filter input pressure gage
58. Optic fluid filter output pressure gage
59. Laser temperature circuit card
60. Optic temperature circuit card
61. DI filter
62. Laser fluid supply filters
63. Optic fluid supply filter
64. Chiller fans

Control

65. Upgrade to latest software revision
66. Test control-machine communication
67. Test functionality of soft keys
68. Test functionality of touch screen
69. Test functionality of emergency stop circuit
70. Test CNC cabinet AC function

Service Unit

71. Filters
72. Test air lines
73. Ultracac filter

Machine Frame

74. Table slats
75. Clean shuttle rails
76. Clean shuttle chains
77. Oil shuttle chains
78. Test shuttle lift function
79. Test shuttle table brake system
80. Test shuttle table speed change
81. X-axis drive bellows
82. Y-axis bellows
83. Z-axis bellows
84. Beam path bellows
85. X-axis bellow
86. Clean/lubricate X-axis
87. Clean/lubricate Y-axis
88. Clean/lubricate Z-axis
89. Test Auto-lube system
90. X-axis drive encoder strips (Upgraded)
91. Y-axis drive encoder strips (Upgraded)
92. Safety door switch
93. Safety door switch latch
94. Oxygen assist gas
95. Nitrogen assist gas
96. All air and lubrication lines
97. N2 assist gas transducer
98. Z-axis
99. Safety light pole lights
100. Touch up paint shuttle frame