

# Rhinestahl AMG Machining List

| Machine Name                       | Machine Category | Quantity | Table Size(in) |        |                | Size of Basic Chuck | Workpiece Envelope (X,Y,Z)(in) |        |        |        | Capacity (lbs) | Travel (X,Y,Z)(in) |           |           | Machine Axis Capability |        |
|------------------------------------|------------------|----------|----------------|--------|----------------|---------------------|--------------------------------|--------|--------|--------|----------------|--------------------|-----------|-----------|-------------------------|--------|
|                                    |                  |          | X Axis         | Y Axis | Diameter       |                     | X Axis                         | Y Axis | Z Axis | Swing  |                | Diameter           | X Axis    | Y Axis    |                         | Z Axis |
| Acer Supra-618 II Surface          | Grind            | 1        | 6"             | 18"    | ----           | ----                | 18.9"                          | 6.7"   | 18.3"  | ----   | ----           | 320                | 20"       | 7.5"      | 10"                     | 3      |
| Arter B30 Rotary Surface           | Grind            | 1        | ----           | ----   | 31"            | 31"                 | ----                           | ----   | 10"    | 38"    | 30.5"          | ----               | 16"       | ----      | 25"                     | 2      |
| Arter D-22 Rotary Surface          | Grind            | 1        | ----           | ----   | 21"            | 21"                 | ----                           | ----   | 12"    | ----   | 32"            | ----               | 11"       | ----      | 9"                      | 2      |
| Cincinnati Universal/O.D.          | Grind            | 1        | 84"            | 10"    | ----           | ----                | ----                           | ----   | ----   | ----   | 13"            | ----               | 63.5"     | ----      | ----                    | 2      |
| Campbell ID/OD                     | Grind            | 1        | ----           | ----   | 48"            | ----                | ----                           | ----   | 53"    | ----   | 60"            | ----               | ----      | ----      | ----                    | 4      |
| Heald ID                           | Grind            | 1        | ----           | ----   | 14"            | 14"                 | ----                           | ----   | 8"     | ----   | 18"            | ----               | 21"       | ----      | 8"                      | 2      |
| Moore Jig                          | Grind            | 1        | ----           | ----   | 31.5"          | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | 3      |
| Springfield ID/OD                  | Grind            | 1        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | 2      |
| Chevalier FVM-4026DC               | HMC/VMC          | 1        | 161.4"         | 102"   | ----           | ----                | 161"                           | 102"   | 40"    | ----   | ----           | 26400              | 161.4"    | 102"      | 40.5"                   | 3      |
| HAAS EC-1600 YZT                   | HMC/VMC          | 1        | 64"            | 36"    | ----           | ----                | 64"                            | 50"    | 40"    | ----   | ----           | 10000              | 64"       | 50"       | 40"                     | 3      |
| Hurco BMC 30HT/M CNC               | HMC/VMC          | 1        | 30"            | 17"    | ----           | ----                | 30"                            | 17"    | 24"    | ----   | ----           | 3000               | 30"       | 17"       | 24"                     | 3      |
| Hurco BMC 30HT/M CNC               | HMC/VMC          | 1        | 30"            | 17"    | ----           | ----                | 30"                            | 17"    | 24"    | ----   | ----           | 3000               | 30"       | 17"       | 24"                     | 3      |
| Hurco VM1 CNC                      | HMC/VMC          | 1        | 30"            | 16"    | ----           | ----                | 26"                            | 16"    | 20"    | ----   | ----           | 750                | 26"       | 16"       | 29.29                   | 3      |
| Hurco VM10 CNC                     | HMC/VMC          | 1        | 30"            | 16"    | ----           | ----                | 26"                            | 16"    | 20"    | ----   | ----           | 750                | 26"       | 16"       | 20"                     | 3      |
| Hurco VMX30 CNC                    | HMC/VMC          | 1        | 40"            | 20"    | ----           | ----                | 30"                            | 20"    | 24"    | ----   | ----           | 3000               | 30"       | 20"       | 24"                     | 3      |
| Hurco VMX30i                       | HMC/VMC          | 1        | 40"            | 20"    | ----           | ----                | 30"                            | 20"    | 24"    | ----   | ----           | 3000               | 30"       | 20"       | 24"                     | 3      |
| Hurco VMX64                        | HMC/VMC          | 1        | 66"            | 35"    | ----           | ----                | 64"                            | 34"    | 30"    | ----   | ----           | 5997               | 64"       | 34"       | 30"                     | 3      |
| Hurco VMX84                        | HMC/VMC          | 1        | 86"            | 34"    | ----           | ----                | 84"                            | 34"    | 30"    | ----   | ----           | 5000               | 84"       | 34"       | 30"                     | 3      |
| Kitamura Mycenter-HX1000i          | HMC/VMC          | 1        | 39.4"          | 39.4"  | ----           | ----                | ----                           | ----   | 61.02" | ----   | 80.71"         | 6600               | 80.3"     | 52"       | 53.9"                   | 5      |
| Mazak V550 CNC                     | HMC/VMC          | 1        | ----           | ----   | 21.65", 55.12" | ----                | ----                           | ----   | ----   | ----   | ----           | 2870               | ----      | ----      | 41.34", 22.05", 21.65"  | 3      |
| Trak A.G.E. TRM/DPM                | HMC/VMC          | 1        | 50"            | 10"    | ----           | ----                | 32"                            | 16"    | 15"    | ----   | ----           | 750                | 32"       | 16"       | 15"                     | 3      |
| Trak A.G.E. TRM/DPM                | HMC/VMC          | 1        | 50"            | 10"    | ----           | ----                | 32"                            | 16"    | 15"    | ----   | ----           | 750                | 32"       | 16"       | 15"                     | 3      |
| Trak A.G.E. TRM/DPM                | HMC/VMC          | 1        | 50"            | 10"    | ----           | ----                | 40"                            | 20"    | 23.5"  | ----   | ----           | 1760               | 40"       | 20"       | 23.5"                   | 3      |
| Hardinge Speed                     | Lathe            | 1        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | 2      |
| Excello                            | Mill             | 1        | 48"            | 9"     | ----           | ----                | 48"                            | 9"     | 17.5"  | ----   | ----           | ----               | 37"       | 13"       | 16"                     | 3      |
| Excello                            | Mill             | 1        | 48"            | 9"     | ----           | ----                | 48"                            | 9"     | 17.5"  | ----   | ----           | ----               | 37"       | 13"       | 16"                     | 3      |
| Excello                            | Mill             | 3        | 48"            | 9"     | ----           | ----                | 48"                            | 9"     | 17.5"  | ----   | ----           | ----               | 37"       | 13"       | 16"                     | 3      |
| Mikron HSM 600U PRODMOD            | Mill             | 1        | 11"            | 11"    | ----           | ----                | ----                           | ----   | 18"    | ----   | 18"            | 265                | 31.5"     | 23.6"     | 19.7"                   | 5      |
| Mikron HSM 600U PRODMOD            | Mill             | 1        | 11"            | 11"    | ----           | ----                | ----                           | ----   | 18"    | ----   | 18"            | 265                | 31.5"     | 23.6"     | 19.7"                   | 5      |
| Mikron M 800U HD                   | Mill             | 1        | 31.4"          | 23.6"  | ----           | ----                | 31.5"                          | 22.6"  | 21.6"  | ----   | ----           | 1100               | 31.5"     | 31.5"     | 21.6"                   | 5      |
| Toshiba BTD-110.R16                | Mill             | 1        | 55.1"          | 63"    | ----           | ----                | 78.7"                          | 59.1"  | 57.1"  | ----   | ----           | 13860              | 78.7"     | 59.1"     | 57.1"                   | ----   |
| Mazak Integrex e670                | Mill/Turn        | 1        | ----           | ----   | 42.1"          | ----                | 162.9"                         | ----   | ----   | 42.1"  | 42.1"          | 15432              | 40.4"     | 26.4"     | 162.9"                  | 5      |
| Mazak Integrex 300 IV              | Mill/Turn        | 2        | ----           | ----   | ----           | 10"                 | 63.93"                         | ----   | ----   | ----   | 29.9"          | ----               | 24.8"     | 9.06"     | 62.4"                   | 5      |
| Mazak Integrex i-200               | Mill/Turn        | 1        | ----           | ----   | ----           | 8"                  | 40"                            | ----   | ----   | 20.87" | 19.69"         | ----               | 17.7"     | 7.9"      | 38.1"                   | 5      |
| Mazak Integrex i300                | Mill/Turn        | 1        | 25.9"          | 59.8"  | ----           | ----                | 59.8"                          | ----   | ----   | 25.91" | 25.91"         | ----               | 24.2"     | 10.2"     | 62.4"                   | 2      |
| FARO Edge                          | Misc.            | 1        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | 144"           | ----               | 144" (SR) | 144" (SR) | ----                    | 7      |
| Fellows Model Z                    | Misc.            | 4        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | ----   |
| Gisholt                            | Misc.            | 2        | ----           | ----   | ----           | ----                | 43"                            | ----   | ----   | ----   | 36"            | 250                | 44"       | ----      | ----                    | ----   |
| Horizontal Saw (Wellsaw)           | Misc.            | 1        | 13"            | 41"    | ----           | ----                | 13"                            | 144"   | 17.5"  | ----   | ----           | ----               | ----      | ----      | ----                    | 2      |
| South Bend                         | Mill/Turn        | 3        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | 2      |
| Mac-Blast                          | Misc.            | 1        | ----           | ----   | ----           | ----                | 46"                            | 13.5"  | 19.5"  | ----   | ----           | ----               | ----      | ----      | ----                    | ----   |
| Marvel                             | Misc.            | 1        | 31"            | 150"   | ----           | ----                | 31"                            | 200"   | 21"    | ----   | ----           | ----               | ----      | ----      | ----                    | 2      |
| Mazak Cybertech Turn 4500M         | Turn             | 1        | ----           | ----   | ----           | ----                | 82.32"                         | ----   | ----   | 33.86" | 31.890"        | 5624               | 21.2"     | 163.2"    | 131.9" (W)              | 3      |
| Mazak Powermaster 3000             | Turn             | 1        | ----           | ----   | ----           | ----                | 122"                           | ----   | ----   | ----   | 21.625"        | ----               | 25.8"     | ----      | 122.8"                  | ----   |
| Mazak Quick Turn 20N               | Turn             | 1        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | 11.81"         | ----               | 7.12"     | ----      | 20.12"                  | ----   |
| Mazak SQ-30M                       | Turn             | 1        | ----           | ----   | ----           | ----                | 43"                            | ----   | ----   | 22.04" | 16.25"         | ----               | 9.63"     | ----      | 40.8"                   | ----   |
| Sigma Engine                       | Turn             | 3        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | 2      |
| Toshiba TUE-100                    | Turn             | 1        | ----           | ----   | 40"            | ----                | ----                           | ----   | ----   | ----   | 47"            | 4400               | 60.2"     | ----      | 31.4"                   | 2      |
| Toshiba TUE-15                     | Turn             | 1        | ----           | ----   | 59"            | ----                | ----                           | ----   | ----   | ----   | 71"            | 17600              | 47.2"     | ----      | 35.4"                   | 2      |
| Toshiba TUE-150                    | Turn             | 1        | ----           | ----   | 57.1"          | ----                | ----                           | ----   | ----   | ----   | 78.74"         | 17600              | 49.2"     | ----      | 35.4"                   | 2      |
| Hobart 100 Series Cyber-Tig        | Weld             | 1        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | ----   |
| Hobart TG301 Tig                   | Weld             | 1        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | ----   |
| Miller Delta Weld (various models) | Weld             | 9        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | ----   |
| W2000 PCMMI 15KW-30KW GUN          | Weld             | 1        | ----           | ----   | ----           | ----                | ----                           | ----   | ----   | ----   | ----           | ----               | ----      | ----      | ----                    | ----   |