



**Alpha CNC Group Pty Ltd**

21/2-4 Picrite Close, Pemulwuy NSW  
2145  
Phone: 02 9683 6117  
Web: [www.alphacnc.com.au](http://www.alphacnc.com.au)

Felix Yan  
0420 206 745  
[felix\\_yan@alphacnc.com.au](mailto:felix_yan@alphacnc.com.au)

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# SUNRISE CNC WATER JET CUTTING MACHINE

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Supported by Alpha CNC





## Alpha -Sunrise 5-Axis CNC Water Jet Cutting Machine

### FEATURES:

- ❖ Simple design, easy to set up
- ❖ High precision rack and pinion driven machine
- ❖ High speed servo motor
- ❖ Integrated/split machine structure
- ❖ Dust proof cover to protect linear rail and rack
- ❖ Wireless remote control
- ❖ Graphic simulation
- ❖ Automatic garnet feeding

### CUTTING TABLE:

| Model             | SQ4020      |
|-------------------|-------------|
| Machine type      | Flying arm  |
| Cutting range     | 4000x2000mm |
| Z axis travel     | 200mm       |
| Cutting tolerance | 0.1mm       |
| Repeatability     | 0.03mm      |
| Rapid speed       | 8000mm/min  |
| Dimension         | 0.03mm      |
| Weight            | 6000kg      |

### INTENSIFIER PUMP

| Model                                 | CUX400              |
|---------------------------------------|---------------------|
| Max Pressure                          | 4000Bar             |
| Max. Continuous Pressure              | 3200bar             |
| Max. Water Flow Rate at Max. Pressure | 3.8L/min            |
| Nom. Motor Current                    | 37KW/ 415V/50Hz 66A |
| Max Noise Level                       | <92dB               |
| Min. Inlet Cutting Water Pressure     | 2bar                |
| Max. Nominal Stroke Rate              | 54Min -1            |
| Accumulator Volume                    | 1.2L                |





## CUTTING SPEED FOR REFERENCE

| Item No. | Thickness (mm) | Cutting Speed mm/min (60# Garnet) |                 |        |          |          |       |
|----------|----------------|-----------------------------------|-----------------|--------|----------|----------|-------|
|          |                | Mild metal                        | Stainless Steel | Marble | Aluminum | Titanium | Glass |
| 1        | 1.5            | 1000                              | 950             |        |          | 4000     |       |
| 2        | 2              | 850                               | 800             |        |          | 2700     |       |
| 3        | 3              | 700                               | 650             |        |          | 1700     |       |
| 4        | 5              | 550                               | 500             |        | 1500     | 940      | 2000  |
| 5        | 8              | 320                               | 300             |        | 900      | 530      | 1300  |
| 6        | 10             | 300                               | 280             | 1800   | 750      | 419      | 900   |
| 7        | 12             | 240                               | 218             | 1500   | 650      | 338      | 800   |
| 8        | 15             | 160                               | 150             | 1200   | 530      | 260      | 700   |
| 9        | 18             | 130                               | 120             | 1000   | 440      | 210      | 650   |
| 10       | 20             | 110                               | 100             | 900    | 390      | 180      | 580   |
| 11       | 25             | 90                                | 80              | 700    | 300      | 145      |       |
| 12       | 30             | 70                                | 65              | 550    | 240      | 115      |       |
| 13       | 35             | 60                                | 55              | 450    | 200      | 95       |       |
| 14       | 40             | 50                                | 45              | 400    | 170      | 84       |       |
| 15       | 50             | 40                                | 35              | 300    | 135      | 64       |       |
| 16       | 60             | 28                                | 22              | 250    | 110      | 53       |       |
| 17       | 80             | 20                                | 17              | 180    | 80       | 38       |       |
| 18       | 100            | 15                                | 13              | 130    | 60       | 28       |       |

## APPLICATIONS

