

Processing Machine Specifications

| Model Name | | NX-40CF | | |
|--|----------------------------|--|---|--|
| Machine structure | | X-Y Precision Rack & Pinion, Direct Drive - Z Precision Linear Drive | | |
| Travel drive method | | X-Y-Z simultaneous 3 axes (Z axis height control is also possible) | | |
| Specifications and Performance | Max. workpiece size (inch) | 120.1 x 60.0 | | |
| | Table pass height (inch) | 34.6 | | |
| | Processing access | | Manual Door | |
| | Pallet changer | | Provided | |
| | Stroke | X-axis stroke (inch) | 125.96 | |
| | | Y-axis stroke (inch) | 62.99 | |
| | | Z-axis stroke (inch) | 4.7 | |
| | Speed | Rapid travel speed (X, Y) (inch / min) | 4724 (single axis), 6660 (simultaneous) | |
| | | Max. processing feedrate (inch / min) | 2360 | |
| | Precision | Positioning precision (inch) | 0.0019/20 (X, Y axis), .0039/4 (Z axis) | |
| | | Repeatability (inch) | (+/-)0.00039 (X, Y axis) | |
| | Drive motor type | | Intelligent AC Servo | |
| Max. workpiece weight (lb) | | 2050 | | |
| Machine unit dimensions (W x H x D) (inch) | | 440.4 x 94.5 x 190.3 | | |
| Machine system weight (lb) | | 33070 | | |
| Installation dimensions (W x D) (inch) | | 491.3 x 346.9 | | |
| Floor space requirement (sq ft) | | 1184 | | |
| Machine power requirements | | 71 KVA 3Ø 208 VAC ±5% 60Hz 202 Full Load Ampe | | |

Pallet Changer Specifications

| Type | P6 |
|----------------------------|----------------------|
| Drive mechanism | Chain |
| Work clamps | Automatic (Optional) |
| Pallet capacity (lb) | 2050/pallet |
| Pallet changer weight (lb) | 6175 |
| Applicable machine size | 3015 (5' x 10') |

Control System Specifications

| Type | Self-contained |
|-----------------------------|-------------------------------------|
| CPU | 64-bit |
| Display screen | 15" TFT color LCD Touch screen |
| Hard disk | 10.0GB |
| Generator output control | Output Power, Frequency, Duty |
| Generator operation control | Beam ON/OFF, laser gas change, etc. |
| Drive system | X, Y, Z simultaneous control |
| Position detection system | Encoder |
| Min. command input | .001mm / .0001" |
| Program input system | USB, Computer Link, Ethernet LAN |

CO₂ Laser Specifications

| Model | | 40CFX | |
|---------------------------------------|---------------------------------------|--|--|
| Excitation method | | 3-axis cross flow, silent discharge | |
| Performance | Laser power | Maximum output power (W) | 4000 |
| | | Rated output power (W) | 4000 |
| | | Control method | Power feedback |
| | | Power stability | Less than ±1% of rated power |
| | | Beam mode | Low-order (main component TEM ₀₁ *) |
| | Beam characteristic | Beam outer diameter (Inch) | 1.02 |
| Beam divergence (mrad) | | Approx. 3.5 or less (total angle) | |
| Laser gas composition | | CO ₂ :CO:N ₂ :He | |
| Laser gas | Laser gas consumption rate (liter/Hr) | 3 | |
| | Gas sealing time (Hr) | 24 (during rated continuous oscillation) | |
| | Wave length (µm) | 10.6 | |
| Frequency setting range (Hz) | | 10-3000 | |
| Duty range (%) | | 0-100 adjustable | |
| Output power adjustable range (%) | | 0-100 of rating | |
| Resonator unit dimensions (W x H x D) | | 98.4 x 71.3 x 31.5 | |
| Resonator unit weight (lb) | | 4850 | |
| Chiller power requirements | | 42 KVA 3Ø 208 VAC ±10% 60Hz 118 Full Load Amps | |