



CY2D

# C 2512

Compact footprint  
Suitable for prototyping

 **CYLASER®**



CY2D

C 2512



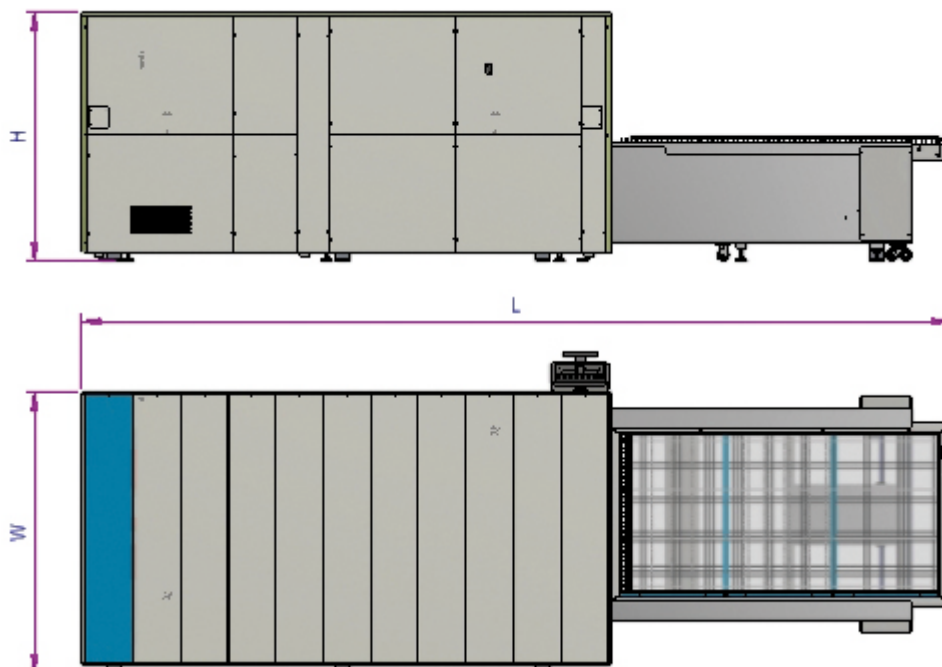
VEGA VORTEX

EVO  
III



- » Specifically designed to take advantage of the fiber laser technology
- » Construction philosophy with the use of Off-The-Shelf components to avoid forced customer retention
- » EVO III proprietary cutting head, designed and built by Cy-Laser; the most advanced in fiber laser industry, the result of a very long experience in this specific process
- » Compatible with the main CAD-CAM software available in the market
- » Suitable for prototyping
- » Optimized height of internal working table
- » Access door to the cutting area with easy opening
- » Compact footprint
- » Fast installation and user friendly

## Layout



Technical Data

|                                                                  |                 |                        |
|------------------------------------------------------------------|-----------------|------------------------|
| CUTTING AREA                                                     |                 |                        |
| Cutting Area X                                                   | inch            | 100.39                 |
| Cutting Area Y                                                   | inch            | 50.39                  |
| Cutting Area Z                                                   | inch            | 4.72                   |
| NOMINAL SHEET SIZE                                               |                 |                        |
| Nominal Sheet Size X                                             | inch            | 98                     |
| Nominal Sheet Size Y                                             | inch            | 49                     |
| OVERALL DIMENSION AREA                                           |                 |                        |
| Lenght, ca. (L)                                                  | inch            | 278                    |
| Width, ca. (W)                                                   | inch            | 89                     |
| Height, ca. (H)                                                  | inch            | 80                     |
| Maximun workpiece weight                                         | Lb              | 550                    |
| Max workpiece load per square foot                               | lb/sf           | 40.89                  |
| Table Changeover Speed                                           | inch/sec.       | 14.17                  |
| Table Changeover Time                                            | sec.            | 7                      |
| AXIS KINEMATIC                                                   |                 |                        |
| Maximum positioning speed parallel axis X/Y                      | inch/min.       | 2,362                  |
| Maximum positioning speed simultaneous axis X/Y                  | inch/min.       | 3,346                  |
| Massimum Axis Acceleration                                       | G               | 0.8                    |
| ACCURACY & PRECISION                                             |                 |                        |
| Meccanical Position Accuracy                                     | inch            | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)         | inch            | 0.001181               |
| Cut Perpendicularity Tolerances                                  | inch            | 0.000393               |
| Machine Weight (without Exaust Filter, Chiller, Laser Generator) | Lb              | 17,600                 |
| Required Dust Collector                                          |                 | 2C                     |
| Color                                                            | RAL             | 7040 / 5015            |
| Voltage Required (**)                                            | V Triphase / HZ | Upon Request - 50 / 60 |

Laser Sources Chart

|                              |      |       |       |       |       |       |       |       |       |       |
|------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Generator Model              |      | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 80K   | 100K  | 120K  |
| Nominal Power                | kW   | 1     | 2     | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| Power Requirement            | kW   | 3     | 6     | 9     | 12    | 15    | 18    | 24    | 30    | 36    |
| Total installation (*)       | kW   | 19    | 22    | 27    | 30    | 33    | 36    | 42    | 48    | 54    |
| Wavelength                   | nm   | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |
| MAXIMUM CUTTING CAPABILITIES |      |       |       |       |       |       |       |       |       |       |
| Carbon Steel                 | inch | 0.400 | 0.600 | 0.785 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Stainless Steel              | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Aluminum                     | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Brass                        | inch | 0.100 | 0.200 | 0.250 | 0.350 | 0.400 | 0.500 | 0.500 | 0.500 | 0.600 |

(\*) fiber laser generator, exhaust filter, chiller, 2d machine  
(\*\*) available on request

Cutting Samples





CY2D

# LM 3015

Load-Unload automation set-up available  
Ideal for light gauge cutting





CY2D

# LM 3015

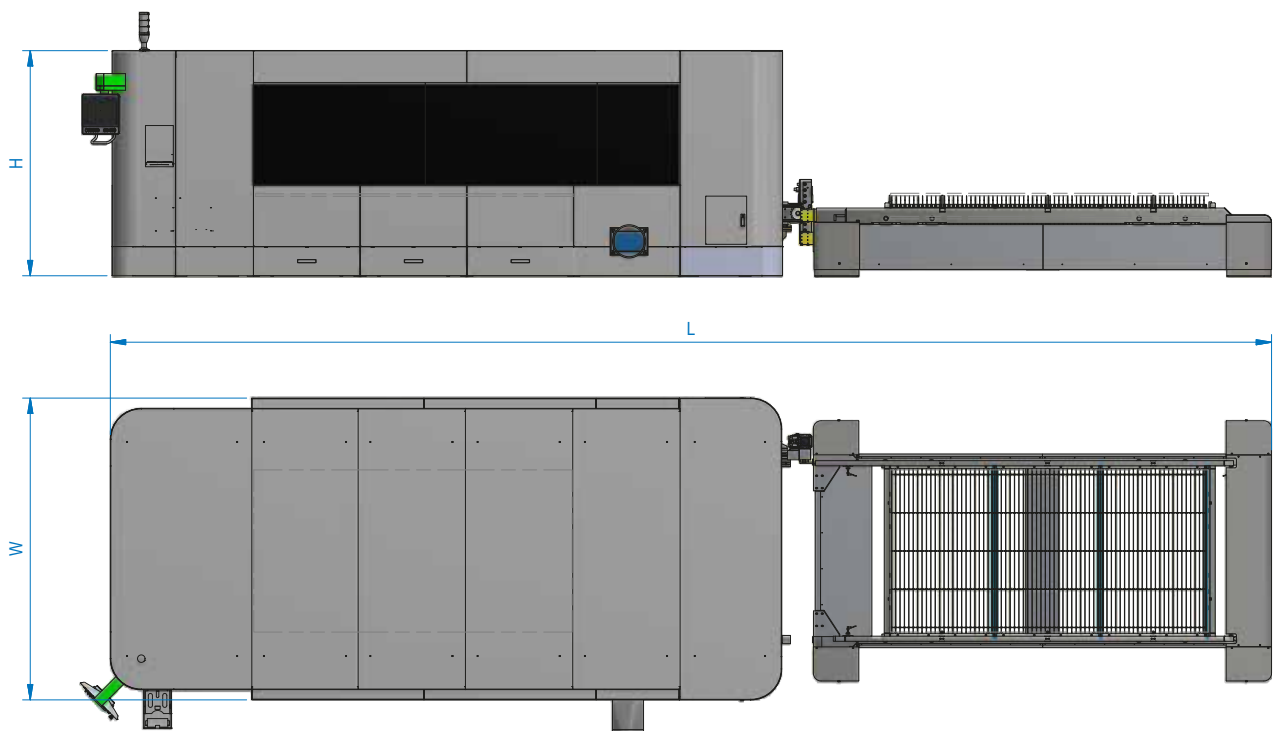


## EVO III



- » Construction philosophy with the use of Off-The-Shelf components to avoid forced customer retention
- » EVO III proprietary cutting head, designed and built by Cy-Laser; the most advanced in fiber laser industry, the result of a very long experience in this specific process
- » Compatible with the main machine and CAD-CAM software on the market
- » Optimized gantry system to take advantage of the linear motor acceleration
- » New and extremely modern design
- » Ideal for light gauge cutting
- » Load-Unload automation set-up available

### Layout



Technical Data

CUTTING AREA

|                |      |        |
|----------------|------|--------|
| Cutting Area X | inch | 122.05 |
| Cutting Area Y | inch | 61.02  |
| Cutting Area Z | inch | 4.72   |

NOMINAL SHEET SIZE

|                      |      |     |
|----------------------|------|-----|
| Nominal Sheet Size X | inch | 120 |
| Nominal Sheet Size Y | inch | 60  |

OVERALL DIMENSION AREA

|                                    |           |       |
|------------------------------------|-----------|-------|
| Lenght, ca. (L)                    | inch      | 445   |
| Width, ca. (W)                     | inch      | 118   |
| Height, ca. (H)                    | inch      | 87    |
| Maximun workpiece weight           | Lb        | 1,540 |
| Max workpiece load per square foot | lb/sf     | 40.89 |
| Table Changeover Speed             | inch/sec. | 14.57 |
| Table Changeover Time              | sec.      | 30    |

AXIS KINEMATIC

|                                                 |           |       |
|-------------------------------------------------|-----------|-------|
| Maximum positioning speed parallel axis X/Y     | inch/min. | 5,906 |
| Maximum positioning speed simultaneous axis X/Y | inch/min. | 8,268 |
| Massimum Axis Acceleration                      | G         | 4     |

ACCURACY & PRECISION

|                                                                  |                 |                        |
|------------------------------------------------------------------|-----------------|------------------------|
| Meccanical Position Accuracy                                     | inch            | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)         | inch            | 0.001968               |
| Cut Perpendicularity Tolerances                                  | inch            | 0.000393               |
| Machine Weight (without Exaust Filter, Chiller, Laser Generator) | Lb              | 24,200                 |
| Required Dust Collector                                          |                 | 4C                     |
| Color                                                            | RAL             | 7040 / 5015            |
| Voltage Required (**)                                            | V Triphase / HZ | Upon Request - 50 / 60 |

Laser Sources Chart

| Generator Model        |    | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 80K   | 100K  | 120K  |
|------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power          | kW | 1     | 2     | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| Power Requirement      | kW | 3     | 6     | 9     | 12    | 15    | 18    | 24    | 30    | 36    |
| Total installation (*) | kW | 19    | 22    | 27    | 30    | 33    | 36    | 42    | 48    | 54    |
| Wavelength             | nm | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |

MAXIMUM CUTTING CAPABILITIES

|                 |      |       |       |       |       |       |       |       |       |       |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Carbon Steel    | inch | 0.400 | 0.600 | 0.785 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Stainless Steel | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Aluminum        | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Brass           | inch | 0.100 | 0.200 | 0.250 | 0.350 | 0.400 | 0.500 | 0.500 | 0.500 | 0.600 |

(\*) fiber laser generator, exaust filter, chiller, 2d machine  
(\*\*) available on request

Cutting Samples

Carbon Steel  
0.785"



Aluminum  
0.600"



Stainless Steel  
0.600"



Stainless Steel  
0.250"



Brass  
0.125"





CY2D

# EL 3015

Load-Unload automation set-up available  
Ideal for light gauge cutting

 **CYLASER®**



CY2D

# EL 3015

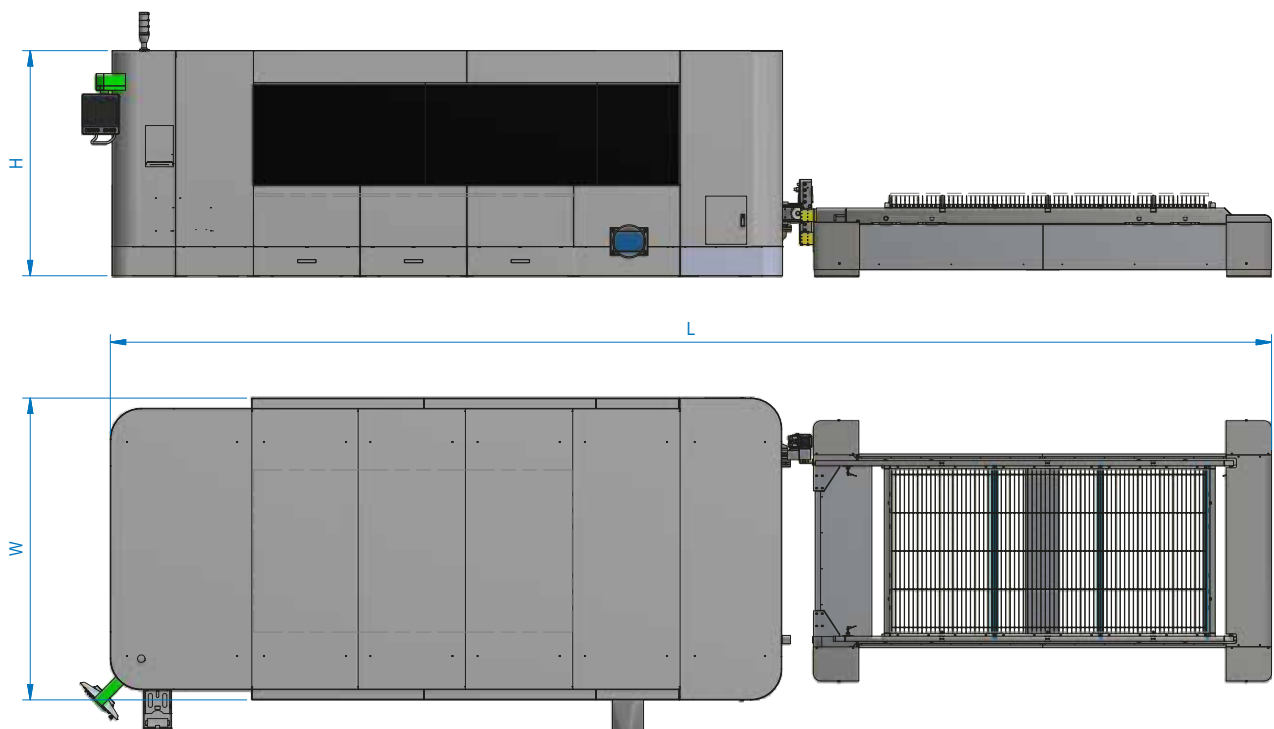


**EVO  
III**



- » Construction philosophy with the use of Off-The-Shelf components to avoid forced customer retention
- » EVO III proprietary cutting head, designed and built by Cy-Laser; the most advanced in fiber laser industry, the result of a very long experience in this specific process
- » Compatible with the main machine and CAD-CAM software on the market
- » Optimized gantry design
- » New and extremely modern design
- » Ideal for light gauge cutting
- » Brushless motors and rack and pinion to reduce operating costs
- » Load-Unload automation set-up available

## Layout



Technical Data

|                                                                  |                 |                        |
|------------------------------------------------------------------|-----------------|------------------------|
| CUTTING AREA                                                     |                 |                        |
| Cutting Area X                                                   | inch            | 122.05                 |
| Cutting Area Y                                                   | inch            | 61.02                  |
| Cutting Area Z                                                   | inch            | 4.72                   |
| NOMINAL SHEET SIZE                                               |                 |                        |
| Nominal Sheet Size X                                             | inch            | 120                    |
| Nominal Sheet Size Y                                             | inch            | 60                     |
| OVERALL DIMENSION AREA                                           |                 |                        |
| Lenght, ca. (L)                                                  | inch            | 445                    |
| Width, ca. (W)                                                   | inch            | 118                    |
| Height, ca. (H)                                                  | inch            | 87                     |
| Maximun workpiece weight                                         | Lb              | 1,540                  |
| Max workpiece load per square foot                               | lb/sf           | 40.89                  |
| Table Changeover Speed                                           | inch/sec.       | 14.57                  |
| Table Changeover Time                                            | sec.            | 30                     |
| AXIS KINEMATIC                                                   |                 |                        |
| Maximum positioning speed parallel axis X/Y                      | inch/min.       | 2,756                  |
| Maximum positioning speed simultaneous axis X/Y                  | inch/min.       | 3,898                  |
| Massimum Axis Acceleration                                       | G               | 1                      |
| ACCURACY & PRECISION                                             |                 |                        |
| Meccanical Position Accuracy                                     | inch            | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)         | inch            | 0.001968               |
| Cut Perpendicularity Tolerances                                  | inch            | 0.000393               |
| Machine Weight (without Exaust Filter, Chiller, Laser Generator) | Lb              | 24,200                 |
| Required Dust Collector                                          |                 | 4C                     |
| Color                                                            | RAL             | 7040 / 5015            |
| Voltage Required (**)                                            | V Triphase / HZ | Upon Request - 50 / 60 |

Laser Sources Chart

|                        |    |       |       |       |       |       |
|------------------------|----|-------|-------|-------|-------|-------|
| Generator Model        |    | 10K   | 20K   | 25K   | 30K   | 40K   |
| Nominal Power          | kW | 1     | 2     | 2.5   | 3     | 4     |
| Power Requirement      | kW | 3     | 6     | 7.5   | 9     | 12    |
| Total installation (*) | kW | 19    | 22    | 23.5  | 27    | 30    |
| Wavelength             | nm | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |

|                              |      |       |       |       |       |       |
|------------------------------|------|-------|-------|-------|-------|-------|
| MAXIMUM CUTTING CAPABILITIES |      |       |       |       |       |       |
| Carbon Steel                 | inch | 0.300 | 0.450 | 0.600 | 0.700 | 0.785 |
| Stainless Steel              | inch | 0.200 | 0.250 | 0.250 | 0.500 | 0.600 |
| Aluminum                     | inch | 0.200 | 0.250 | 0.250 | 0.500 | 0.600 |
| Brass                        | inch | 0.100 | 0.200 | 0.200 | 0.250 | 0.350 |

(\*) fiber laser generator, exhaust filter, chiller, 2d machine  
(\*\*) available on request

Cutting Samples

Carbon Steel  
0.785"



Aluminum  
0.600"



Stainless Steel  
0.600"



Stainless Steel  
0.250"



Brass  
0.125"





CY2D

# HL 3015 - HL 4020

Load-Unload automation set-up available  
Left or right feeding to optimize the material flow

 **CYLASER®**



CY2D

# HL 3015 - HL 4020

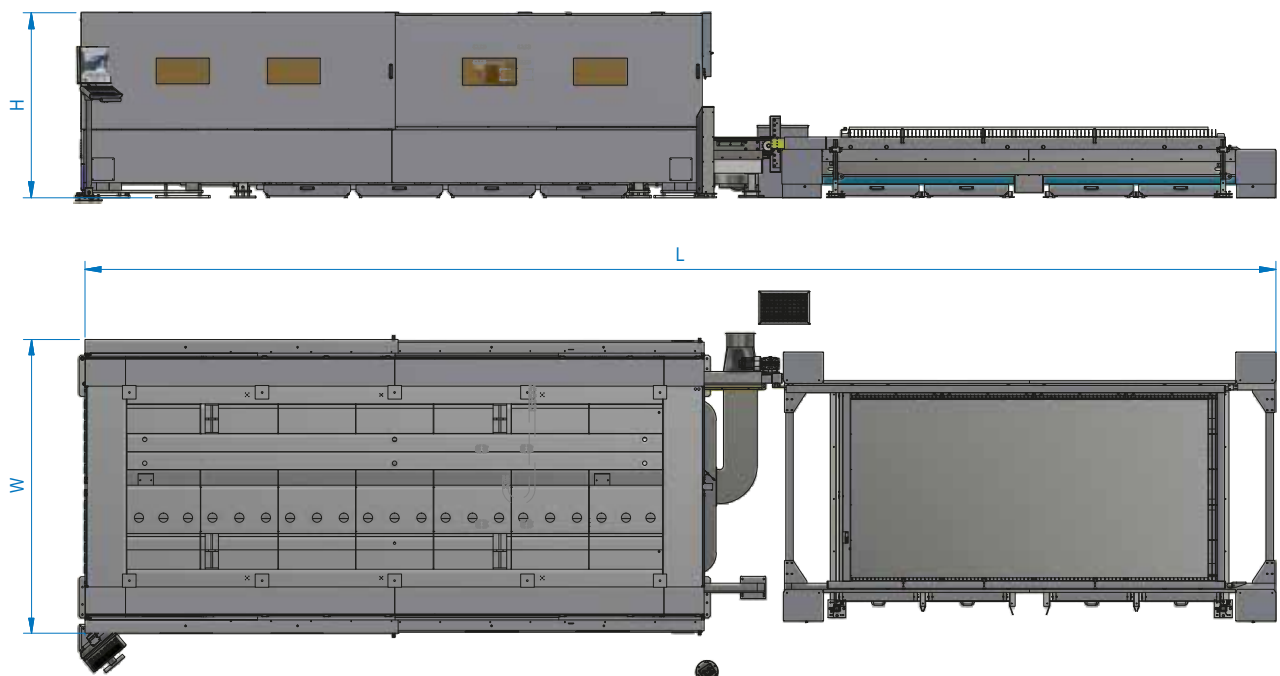


**EVO  
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- » Specifically designed system to take advantage of the fiber laser technology
- » Construction philosophy with the use of Off-The-Shelf components to avoid forced customer retention
- » EVO III proprietary cutting head, designed and built by Cy-Laser; the most advanced in fiber laser industry, the result of a very long experience in this specific process
- » Compatible with the main machine and CAD-CAM software on the market
- » Absolute precision and mechanical stability thanks to the "airplane" structure
- » New design, more compact and modern
- » Access door to the cutting area on both sides
- » Left or right feeding to optimize the material flow
- » Load-Unload automation set-up available

## Layout



Technical Data

HL 3015

HL 4020

CUTTING AREA

|                |      |        |        |
|----------------|------|--------|--------|
| Cutting Area X | inch | 120.87 | 160.24 |
| Cutting Area Y | inch | 61.02  | 80.71  |
| Cutting Area Z | inch | 4.72   | 4.72   |

NOMINAL SHEET SIZE

|                      |      |     |     |
|----------------------|------|-----|-----|
| Nominal Sheet Size X | inch | 120 | 160 |
| Nominal Sheet Size Y | inch | 60  | 80  |

OVERALL DIMENSION AREA

|                                    |           |       |       |
|------------------------------------|-----------|-------|-------|
| Lenght, ca. (L)                    | inch      | 444   | 531   |
| Width, ca. (W)                     | inch      | 104   | 128   |
| Height, ca. (H)                    | inch      | 81    | 81    |
| Maximun workpiece weight           | Lb        | 1,980 | 3,520 |
| Max workpiece load per square foot | lb/sf     | 40.89 | 40.89 |
| Table Changeover Speed             | inch/sec. | 9.84  | 9.84  |
| Table Changeover Time              | sec.      | 35    | 40    |

AXIS KINEMATIC

|                                                 |           |       |       |
|-------------------------------------------------|-----------|-------|-------|
| Maximum positioning speed parallel axis X/Y     | inch/min. | 3,543 | 3,543 |
| Maximum positioning speed simultaneous axis X/Y | inch/min. | 4,921 | 4,921 |
| Massimum Axis Acceleration                      | G         | 1     | 1     |

ACCURACY & PRECISION

|                                                                  |                 |                        |                        |
|------------------------------------------------------------------|-----------------|------------------------|------------------------|
| Meccanical Position Accuracy                                     | inch            | 0.000984               | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)         | inch            | 0.000984               | 0.000984               |
| Cut Perpendicularity Tolerances                                  | inch            | 0.000393               | 0.000393               |
| Machine Weight (without Exaust Filter, Chiller, Laser Generator) | Lb              | 24,200                 | 27,500                 |
| Required Dust Collector                                          |                 | 6C                     | 6C                     |
| Color                                                            | RAL             | 7040 / 5015            | 7040 / 5015            |
| Voltage Required (**)                                            | V Triphase / HZ | Upon Request - 50 / 60 | Upon Request - 50 / 60 |

Laser Sources Chart

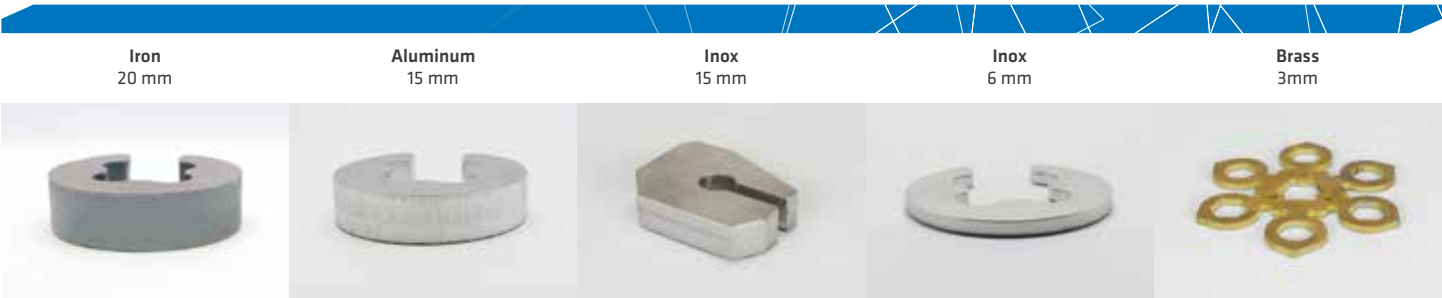
| Generator Model        |    | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 80K   | 100K  | 120K  |
|------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power          | kW | 1     | 2     | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| Power Requirement      | kW | 3     | 6     | 9     | 12    | 15    | 18    | 24    | 30    | 36    |
| Total installation (*) | kW | 19    | 22    | 27    | 30    | 33    | 36    | 42    | 48    | 54    |
| Wavelength             | nm | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |

MAXIMUM CUTTING CAPABILITIES

|                 |      |       |       |       |       |       |       |       |       |       |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Carbon Steel    | inch | 0.400 | 0.600 | 0.785 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Stainless Steel | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Aluminum        | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Brass           | inch | 0.100 | 0.200 | 0.250 | 0.350 | 0.400 | 0.500 | 0.500 | 0.500 | 0.600 |

(\*) fiber laser generator, exaust filter, chiller, 2d machine  
(\*\*) available on request

Esempi di campionatura





US



CY2D

# HL 6020 - HL 6025

Maximum precision in large dimensions parts

 **CYLASER®**



CY2D

# HL 6020 - HL 6025

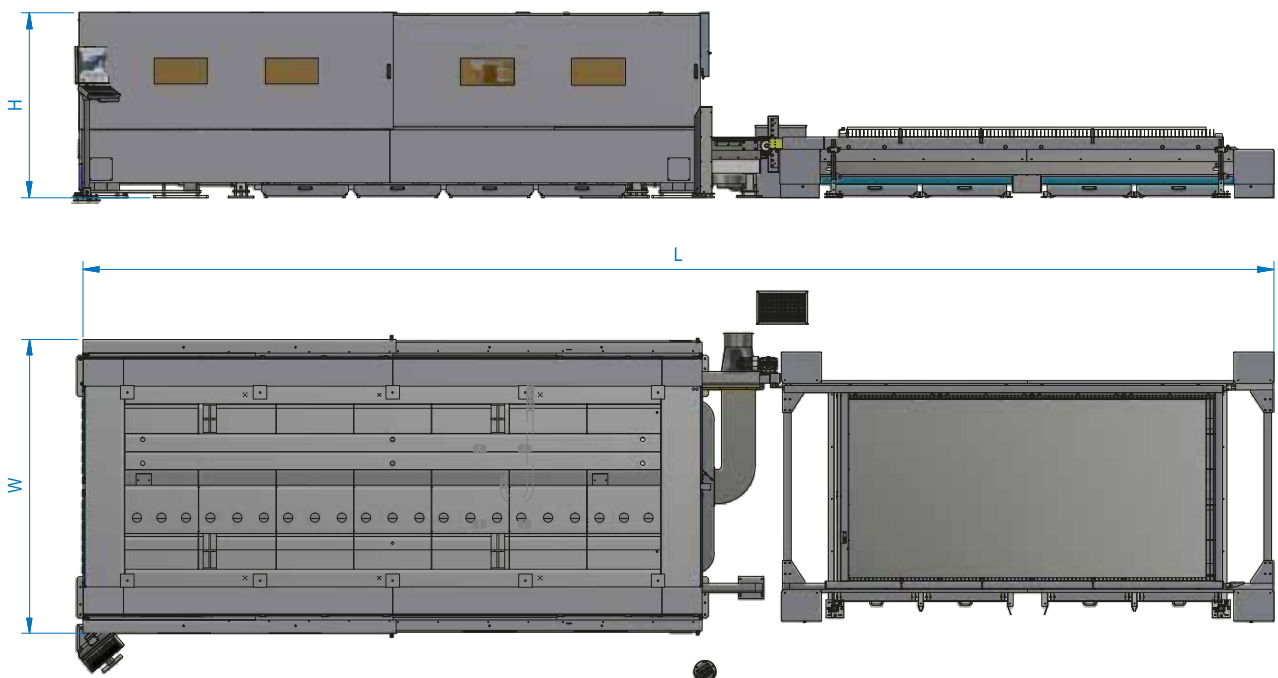


**EVO  
III**



- » Specifically designed system to take advantage of the fiber laser technology
- » Construction philosophy with the use of Off-The-Shelf components to avoid forced customer retention
- » EVO III proprietary cutting head, designed and built by Cy-Laser; the most advanced in fiber laser industry, the result of a very long experience in this specific process
- » Compatible with the main machine and CAD-CAM software on the market
- » Absolute precision and mechanical stability thanks to the "airplane" structure
- » Horizontal material storage, with the possibility of processing multiple plates on a single pallet

## Layout



Technical Data

HL 6020

HL 6025

CUTTING AREA

|                |      |        |        |
|----------------|------|--------|--------|
| Cutting Area X | inch | 240.16 | 240.16 |
| Cutting Area Y | inch | 79.92  | 99.61  |
| Cutting Area Z | inch | 4.72   | 4.72   |

NOMINAL SHEET SIZE

|                      |      |     |     |
|----------------------|------|-----|-----|
| Nominal Sheet Size X | inch | 236 | 236 |
| Nominal Sheet Size Y | inch | 80  | 98  |

OVERALL DIMENSION AREA

|                                    |           |       |       |
|------------------------------------|-----------|-------|-------|
| Lenght, ca. (L)                    | inch      | 701   | 701   |
| Width, ca. (W)                     | inch      | 138   | 157   |
| Height, ca. (H)                    | inch      | 130   | 85    |
| Maximun workpiece weight           | Lb        | 5,280 | 6,600 |
| Max workpiece load per square foot | lb/sf     | 40.89 | 40.89 |
| Table Changeover Speed             | inch/sec. | 9.45  | 9.45  |
| Table Changeover Time              | sec.      | 60    | 60    |

AXIS KINEMATIC

|                                                 |           |       |       |
|-------------------------------------------------|-----------|-------|-------|
| Maximum positioning speed parallel axis X/Y     | inch/min. | 3,543 | 3,543 |
| Maximum positioning speed simultaneous axis X/Y | inch/min. | 4,921 | 4,921 |
| Massimum Axis Acceleration                      | G         | 1     | 1     |

ACCURACY & PRECISION

|                                                                  |                 |                        |                        |
|------------------------------------------------------------------|-----------------|------------------------|------------------------|
| Meccanical Position Accuracy                                     | inch            | 0.000984               | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)         | inch            | 0.000984               | 0.000984               |
| Cut Perpendicularity Tolerances                                  | inch            | 0.000393               | 0.000393               |
| Machine Weight (without Exaust Filter, Chiller, Laser Generator) | Lb              | 44,000                 | 48,400                 |
| Required Dust Collector                                          |                 | 9C                     | 9C                     |
| Color                                                            | RAL             | 7040 / 5015            | 7040 / 5015            |
| Voltage Required (**)                                            | V Triphase / HZ | Upon Request - 50 / 60 | Upon Request - 50 / 60 |

Laser Sources Chart

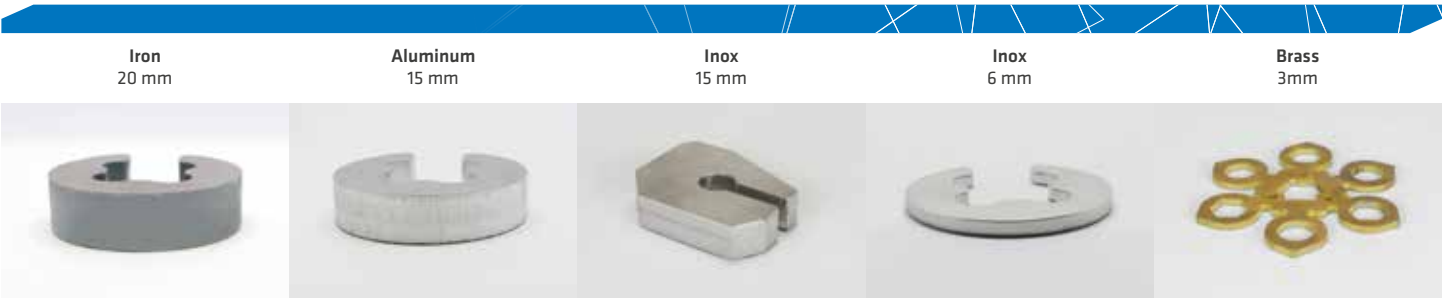
| Generator Model        |    | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 80K   | 100K  | 120K  |
|------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power          | kW | 1     | 2     | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| Power Requirement      | kW | 3     | 6     | 9     | 12    | 15    | 18    | 24    | 30    | 36    |
| Total installation (*) | kW | 19    | 22    | 27    | 30    | 33    | 36    | 42    | 48    | 54    |
| Wavelength             | nm | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |

MAXIMUM CUTTING CAPABILITIES

|                 |      |       |       |       |       |       |       |       |       |       |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Carbon Steel    | inch | 0.400 | 0.600 | 0.785 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Stainless Steel | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Aluminum        | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Brass           | inch | 0.100 | 0.200 | 0.250 | 0.350 | 0.400 | 0.500 | 0.500 | 0.500 | 0.600 |

(\*) fiber laser generator, exaust filter, chiller, 2d machine  
(\*\*) available on request

Esempi di campionatura





CY2D

# HL 8030 - HL 9030

Maximum precision in large dimensions parts

 **CYLASER®**



CY2D

# HL 8030 - HL 9030

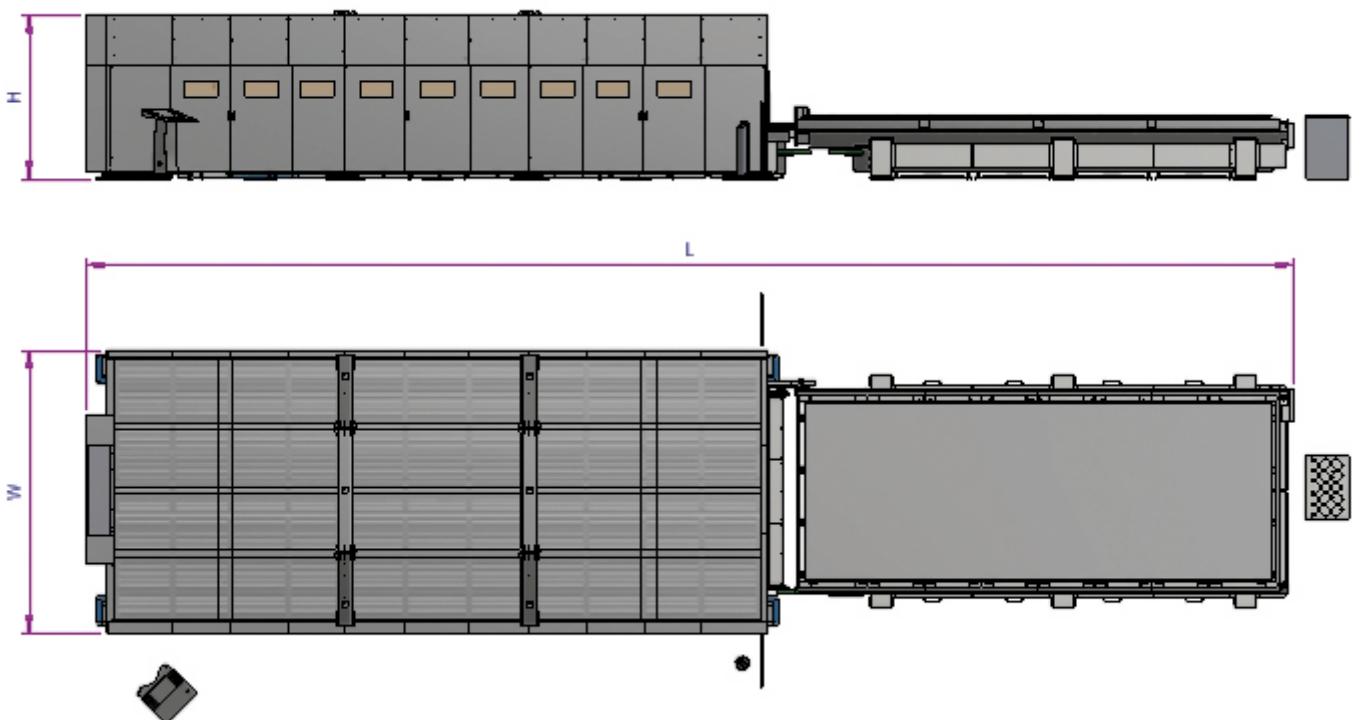


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- » Specifically designed system to take advantage of the fiber laser technology
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- » EVO III proprietary cutting head, designed and built by Cy-Laser; the most advanced in fiber laser industry, the result of a very long experience in this specific process
- » Compatible with the main machine and CAD-CAM software on the market
- » Absolute precision and mechanical stability thanks to the “airplane” structure
- » No gantry repositioning needs, maximum precision in large dimensions parts
- » Horizontal material storage, with the possibility of processing multiple plates on a single pallet

## Layout



## Technical Data

HL 8030

HL 9030

### CUTTING AREA

|                |      |        |        |
|----------------|------|--------|--------|
| Cutting Area X | inch | 318.90 | 358.27 |
| Cutting Area Y | inch | 120.08 | 120.08 |
| Cutting Area Z | inch | 4.72   | 4.72   |

### NOMINAL SHEET SIZE

|                      |      |     |     |
|----------------------|------|-----|-----|
| Nominal Sheet Size X | inch | 314 | 360 |
| Nominal Sheet Size Y | inch | 120 | 120 |

### OVERALL DIMENSION AREA

|                                    |           |        |        |
|------------------------------------|-----------|--------|--------|
| Lenght, ca. (L)                    | inch      | 819    | 906    |
| Width, ca. (W)                     | inch      | 201    | 201    |
| Height, ca. (H)                    | inch      | 118    | 118    |
| Maximum workpiece weight           | Lb        | 10,560 | 11,880 |
| Max workpiece load per square foot | lb/sf     | 40.89  | 40.89  |
| Table Changeover Speed             | inch/sec. | 9.06   | 8.66   |
| Table Changeover Time              | sec.      | 80     | 90     |

### AXIS KINEMATIC

|                                                 |           |       |       |
|-------------------------------------------------|-----------|-------|-------|
| Maximum positioning speed parallel axis X/Y     | inch/min. | 3,150 | 3,150 |
| Maximum positioning speed simultaneous axis X/Y | inch/min. | 4,528 | 4,528 |
| Maximum Axis Acceleration                       | G         | 0.8   | 0.8   |

### ACCURACY & PRECISION

|                                                                   |                 |                        |                        |
|-------------------------------------------------------------------|-----------------|------------------------|------------------------|
| Meccanical Position Accuracy                                      | inch            | 0.000984               | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)          | inch            | 0.000984               | 0.000984               |
| Cut Perpendicularity Tolerances                                   | inch            | 0.000393               | 0.000393               |
| Machine Weight (without Exhaust Filter, Chiller, Laser Generator) | Lb              | 81,400                 | 91,960                 |
| Required Dust Collector                                           |                 | 12C                    | 12C                    |
| Color                                                             | RAL             | 7040 / 5015            | 7040 / 5015            |
| Voltage Required (**)                                             | V Triphase / HZ | Upon Request - 50 / 60 | Upon Request - 50 / 60 |

## Laser Sources Chart

| Generator Model        |    | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 80K   | 100K  | 120K  |
|------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power          | kW | 1     | 2     | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| Power Requirement      | kW | 3     | 6     | 9     | 12    | 15    | 18    | 24    | 30    | 36    |
| Total installation (*) | kW | 19    | 22    | 27    | 30    | 33    | 36    | 42    | 48    | 54    |
| Wavelength             | nm | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |

### MAXIMUM CUTTING CAPABILITIES

|                 |      |       |       |       |       |       |       |       |       |       |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Carbon Steel    | inch | 0.400 | 0.600 | 0.785 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Stainless Steel | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Aluminum        | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Brass           | inch | 0.100 | 0.200 | 0.250 | 0.350 | 0.400 | 0.500 | 0.500 | 0.500 | 0.600 |

(\*) fiber laser generator, exhaust filter, chiller, 2d machine  
(\*\*) available on request

## Cutting Samples

Carbon Steel  
0.785"

Aluminum  
0.600"

Stainless Steel  
0.600"

Stainless Steel  
0.250"

Brass  
0.125"





CY2D

# S 3015 - S 4020

Compact footprint to optimize the manufacturing area space

 **CYLASER®**



CY2D

# S 3015 - S 4020



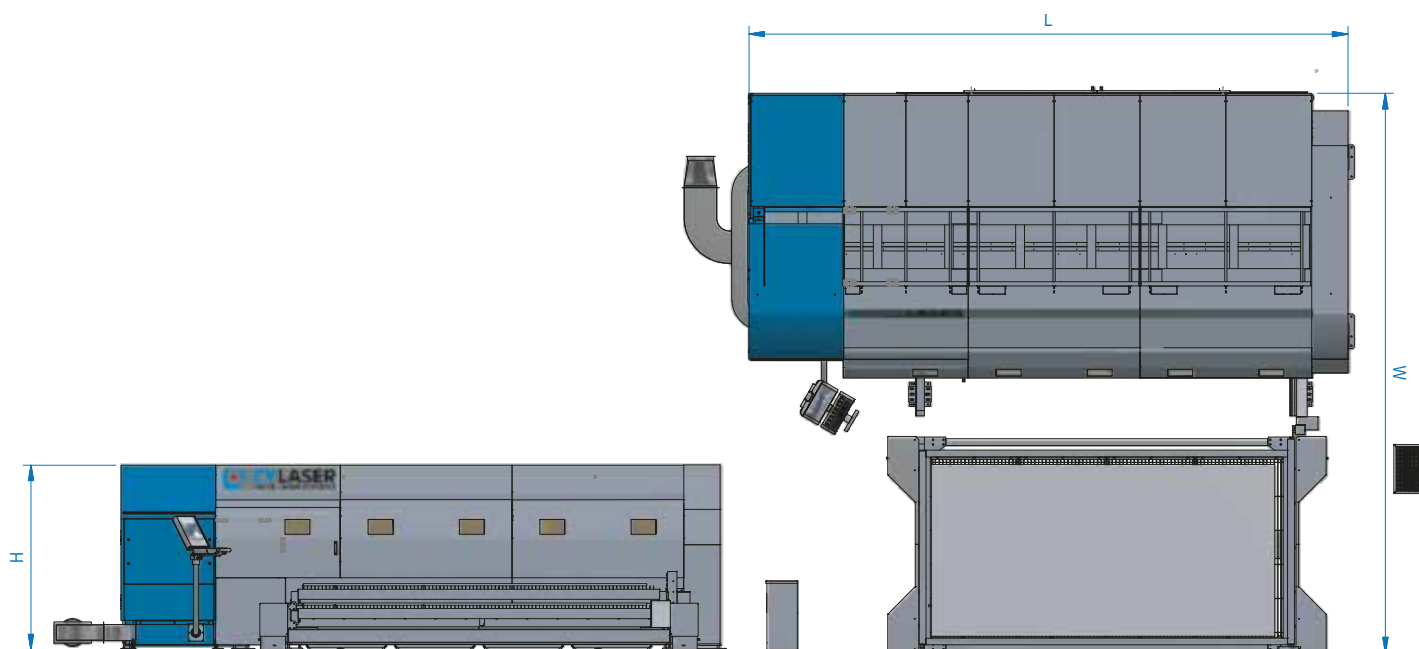
VEGA VORTEX

## EVO III



- » Specifically designed system to take advantage of the fiber laser technology
- » Construction philosophy with the use of Off-The-Shelf components to avoid forced customer retention
- » EVO III proprietary cutting head, designed and built by Cy-Laser; the most advanced in fiber laser industry, the result of a very long experience in this specific process
- » Compatible with the main machine and CAD-CAM software on the market
- » Absolute precision and mechanical stability thanks to the “airplane” structure
- » Compact footprint to optimize the manufacturing area space

### Layout



Technical Data

S 3015

S 4020

CUTTING AREA

|                |      |        |        |
|----------------|------|--------|--------|
| Cutting Area X | inch | 122.05 | 161.42 |
| Cutting Area Y | inch | 61.02  | 79.92  |
| Cutting Area Z | inch | 4.72   | 4.72   |

NOMINAL SHEET SIZE

|                      |      |     |     |
|----------------------|------|-----|-----|
| Nominal Sheet Size X | inch | 120 | 160 |
| Nominal Sheet Size Y | inch | 60  | 80  |

OVERALL DIMENSION AREA

|                                    |           |       |       |
|------------------------------------|-----------|-------|-------|
| Lenght, ca. (L)                    | inch      | 235   | 275   |
| Width, ca. (W)                     | inch      | 202   | 258   |
| Height, ca. (H)                    | inch      | 85    | 85    |
| Maximum workpiece weight           | Lb        | 1,540 | 2,750 |
| Max workpiece load per square foot | lb/sf     | 40.89 | 40.89 |
| Table Changeover Speed             | inch/sec. | 9.84  | 9.84  |
| Table Changeover Time              | sec.      | 35    | 40    |

AXIS KINEMATIC

|                                                 |           |       |       |
|-------------------------------------------------|-----------|-------|-------|
| Maximum positioning speed parallel axis X/Y     | inch/min. | 3,543 | 3,543 |
| Maximum positioning speed simultaneous axis X/Y | inch/min. | 4,921 | 4,921 |
| Massimum Axis Acceleration                      | G         | 1     | 1     |

ACCURACY & PRECISION

|                                                                  |                 |                        |                        |
|------------------------------------------------------------------|-----------------|------------------------|------------------------|
| Meccanical Position Accuracy                                     | inch            | 0.000984               | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)         | inch            | 0.000984               | 0.000984               |
| Cut Perpendicularity Tolerances                                  | inch            | 0.000393               | 0.000393               |
| Machine Weight (without Exaust Filter, Chiller, Laser Generator) | Lb              | 19,800                 | 27,500                 |
| Required Dust Collector                                          |                 | 6C                     | 6C                     |
| Color                                                            | RAL             | 7040 / 5015            | 7040 / 5015            |
| Voltage Required (**)                                            | V Triphase / HZ | Upon Request - 50 / 60 | Upon Request - 50 / 60 |

Laser Sources Chart

| Generator Model        |    | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 80K   | 100K  | 120K  |
|------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power          | kW | 1     | 2     | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| Power Requirement      | kW | 3     | 6     | 9     | 12    | 15    | 18    | 24    | 30    | 36    |
| Total installation (*) | kW | 19    | 22    | 27    | 30    | 33    | 36    | 42    | 48    | 54    |
| Wavelength             | nm | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |

MAXIMUM CUTTING CAPABILITIES

|                 |      |       |       |       |       |       |       |       |       |       |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Carbon Steel    | inch | 0.400 | 0.600 | 0.785 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Stainless Steel | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Aluminum        | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Brass           | inch | 0.100 | 0.200 | 0.250 | 0.350 | 0.400 | 0.500 | 0.500 | 0.500 | 0.600 |

(\*) fiber laser generator, exaust filter, chiller, 2d machine  
(\*\*) available on request

Cutting Samples

Carbon Steel  
0.785"



Aluminum  
0.600"



Stainless Steel  
0.600"



Stainless Steel  
0.250"



Brass  
0.125"





US



CY2D

# S 6020

Compact footprint to optimize the manufacturing area space

 **CYLASER®**



CY2D

S 6020



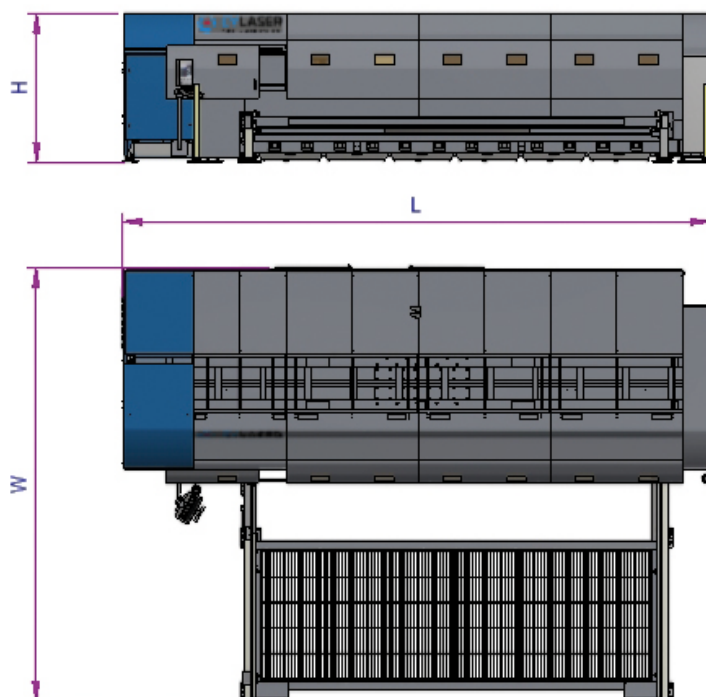
VEGA VORTEX

EVO  
III



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- » Compatible with the main machine and CAD-CAM software on the market
- » Absolute precision and mechanical stability thanks to the “airplane” structure
- » Compact footprint to optimize the manufacturing area space

## Layout



Technical Data

|                                                                  |                 |                        |
|------------------------------------------------------------------|-----------------|------------------------|
| CUTTING AREA                                                     |                 |                        |
| Cutting Area X                                                   | inch            | 240.16                 |
| Cutting Area Y                                                   | inch            | 79.92                  |
| Cutting Area Z                                                   | inch            | 8.27                   |
| NOMINAL SHEET SIZE                                               |                 |                        |
| Nominal Sheet Size X                                             | inch            | 236                    |
| Nominal Sheet Size Y                                             | inch            | 80                     |
| OVERALL DIMENSION AREA                                           |                 |                        |
| Lenght, ca. (L)                                                  | inch            | 359                    |
| Width, ca. (W)                                                   | inch            | 249                    |
| Height, ca. (H)                                                  | inch            | 91                     |
| Maximun workpiece weight                                         | Lb              | 4,070                  |
| Max workpiece load per square foot                               | lb/sf           | 40.89                  |
| Table Changeover Speed                                           | inch/sec.       | 9.45                   |
| Table Changeover Time                                            | sec.            | 35                     |
| AXIS KINEMATIC                                                   |                 |                        |
| Maximum positioning speed parallel axis X/Y                      | inch/min.       | 3,543                  |
| Maximum positioning speed simultaneous axis X/Y                  | inch/min.       | 4,921                  |
| Massimum Axis Acceleration                                       | G               | 1                      |
| ACCURACY & PRECISION                                             |                 |                        |
| Meccanical Position Accuracy                                     | inch            | 0.000984               |
| Meccanical Edge Detection Accuracy (over 10 inch travel)         | inch            | 0.000984               |
| Cut Perpendicularity Tolerances                                  | inch            | 0.000393               |
| Machine Weight (without Exaust Filter, Chiller, Laser Generator) | Lb              | 44,000                 |
| Required Dust Collector                                          |                 | 9C                     |
| Color                                                            | RAL             | 7040 / 5015            |
| Voltage Required (**)                                            | V Triphase / HZ | Upon Request - 50 / 60 |

Laser Sources Chart

|                        |    |       |       |       |       |       |       |       |       |       |
|------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Generator Model        |    | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 80K   | 100K  | 120K  |
| Nominal Power          | kW | 1     | 2     | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| Power Requirement      | kW | 3     | 6     | 9     | 12    | 15    | 18    | 24    | 30    | 36    |
| Total installation (*) | kW | 19    | 22    | 27    | 30    | 33    | 36    | 42    | 48    | 54    |
| Wavelength             | nm | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 | 1,074 |

|                              |      |       |       |       |       |       |       |       |       |       |
|------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MAXIMUM CUTTING CAPABILITIES |      |       |       |       |       |       |       |       |       |       |
| Carbon Steel                 | inch | 0.400 | 0.600 | 0.785 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Stainless Steel              | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Aluminum                     | inch | 0.200 | 0.250 | 0.500 | 0.600 | 0.700 | 0.785 | 0.785 | 0.785 | 1.000 |
| Brass                        | inch | 0.100 | 0.200 | 0.250 | 0.350 | 0.400 | 0.500 | 0.500 | 0.500 | 0.600 |

(\*) fiber laser generator, exaust filter, chiller, 2d machine  
(\*\*) available on request

Cutting Samples

Carbon Steel  
0.785"



Aluminum  
0.600"



Stainless Steel  
0.600"



Stainless Steel  
0.250"



Brass  
0.125"



## OPTIONAL PROCESS

### Vega THE NEW ERA OF FIBER-OPTIC LASER CUTTING

- » Laser beam **diameter and shape modulation**
- » **Enhanced cut quality** on any material
- » **Remarkable edge roughness decreasing** on both stainless steel and carbon steel
- » **Increase in cut thickness**, compared to the standard process, with the same power output
- » Perfect for **high strength metals processing**

## USER INTERFACE

### SIMPLE AND USER-FRIENDLY INTERFACE

- » **Easy-to-use and customizable** graphic system
- » **Features all the software** needed for management on the machine and remotely
- » **Possibility to use a standard PC** as a more flexible and affordable alternative
- » **Possibility to integrate a hand-held device** to control the machine from any position

### Vortex CUTTING POWER FROM ANOTHER WORLD!

- » **Lower roughness** on stainless steel cutting edge
- » **Reduced gas consumption** in comparison of the standard parameters
- » **Lower material heating so**, it will be possible to cut the most complicated patterns
- » **Easier part extraction** from the scrap

### ADVANTAGES

- » **Certified for the main CAD-CAM software on the market** for the maximum degree of integration with any existing system
- » **It fits perfectly into the company network** to ensure remote servicing and diagnostics
- » It allows **sharing the cutting technologies** with management and quotation systems

### CYScheduler 4.0 THE SOFTWARE CUSTOMIZED FOR AUTOMATION

Cy-Laser industry 4.0 is aimed to provide the **most reliable and flexible solution to achieve the higher performances** and provide a **proper information flow to satisfy Industry 4.0** and customers' requirements. In order to connect the Cy-Laser's systems to the various ERPs software, much information is made available for remote connections and management.

- » **Alarm transmitting module** (GSM, LAN or Phone Line) to send SMS, e-mail, alarm phone call in case of an active alarm
- » **On-Board High-Definition Camera** with LAN interface and Secure Internet Access
- » **Jobs queue manageable** directly from external ERP software
- » **Open Database on Server** to Log all the Machine's operation (Alarm history, Jobs done, Gas consumption, etc.)

### CY-LASER LOCAL SERVER DATABASE PROVIDE TO THE ERPS MUCH INFORMATION SUCH AS:

- » **Real-time machine status** (loading, unloading, cutting, alarm, etc.)
- » **JOBS history** enriched with production details as Job's name, start date and time, end date and time
- » **Part numbers production Log** (single part number production history logged real time on the Database)
- » **Process detail** such as Gas used type, Gas pressure, power emitted, process speed, sensors feedback, axis positions are provided in real time
- » **I/O status** of the machines' hardwiring
- » **Warehouse status** and real time monitoring of the material stocked
- » **Customizable information** can be provided under request to fit the customer's needs

### MOST FAMOUS ERPS BRANDS ARE SUPPORTED:

- » **SAP**
- » **Epicor**
- » **Infor**
- » **Microsoft Dynamics**
- » **Oracle ERP**
- » **Zucchetti ERP**

But the Open Source architecture of the Cy-Laser database allows any other ERP software to interface directly to the same information above. Interface Instructions can be provided by Cy-Laser.