

# Rittal – The System.

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## AS 4050.335

## Laser centre Perforex LC 3030

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ENCLOSURES

POWER DISTRIBUTION

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# AS 4050.335 - Laser centre Perforex LC 3030

Perforex laser centres are specifically designed for the automated mechanical modification of standard enclosures. The Perforex LC specialises in 3D laser machining of cubes and contactless, low-vibration machining. Machining of mounting plates including tapped holes is also supported.



## Features

|                          |   |
|--------------------------|---|
| Model No.                | AS 4050.335   |
| Design                   | US version  |
| Product description      | Perforex laser centres are specially designed for the automated mechanical modification of standard enclosures. The Perforex LC specialises in 3D laser machining of cubes and contactless, low-vibration machining. Machining of mounting plates including tapped holes is also supported.   |
| Benefits                 | <ul style="list-style-type: none"><li>3D enclosure machining without repositioning the workpiece</li><li>No tarnishing or discolouration of the cut edges when machining stainless steel</li><li>Spray-finished metal parts, even those with delicate contours, can be cut without damaging the paint or causing discolouration</li><li>Product spectrum from compact to large enclosures</li><li>Contactless, low-vibration machining with no tool wear</li><li>No need to clamp the workpieces</li><li>Machining speed with stainless steel 20x faster than with conventional milling process</li><li>Ergonomic working, thanks to the extendible support surface for enclosure and panel machining</li><li>Simultaneous machining of 5 sides</li></ul> |
| Technical specifications | <ul style="list-style-type: none"><li>Laser pointer (auxiliary laser), beam power laser class 1</li><li>Very narrow cutting width of just 0.3 mm (approx.)</li><li>Class 4 laser</li></ul>  |

# Features

|  |  |
|--|--|
| Supply includes  | Laser centre<br>Compressor<br>Machine housing<br>Filter system<br>Operating unit   |
| Machinable material                                    | Stainless steel<br>Sheet steel<br>Aluminium  |
| Machine controller                                     | Workshop programming   |
| Safety   | Protective housing to achieve laser class 1. May be operated by properly trained personnel, no need for a laser specialist<br>Security door  |
| Interfaces   | Eplan Pro Panel<br>Transfer of DXF formats<br>Rittal Configuration System  |
| Note   | Safety roof (4050.317) for machine housing is mandatory if the machine can be viewed from above<br>A site inspection by a Rittal specialist to select and define the laser version required is necessary<br>We reserve the right to make technical modifications |
| Support area   | Width: 3,900 mm<br>Height: 3,800 mm<br>Depth: 10,500 mm  |
| Beam power max.  | 300 W (CW) or 3000 W (pulse)   |
| Pulse energy (max.)                                    | 30 J   |
| Duration of pulse, max.                                | 50 µs at 300 W output  |
| Wavelength   | 1.070 nm   |
| Maximum machinable material thickness, sheet steel     | 3 mm   |
| Maximum machinable material thickness, stainless steel | 3 mm   |
| Maximum machinable material thickness, aluminium       | 3 mm   |
| Control voltage (DC)                                   | 24 V   |

# Features

|                               |  |
|-------------------------------|--|
| Power consumption             | 3 kW   |
| Rated operating voltage       | 400 V, 3~, 60 Hz                                     |
| Max. machinable area of cubes | Width: 1,200 mm<br>Height: 800 mm<br>Depth: 2,250 mm |
| Packs of                      | 1 pc(s).   |
| Net weight                    | 4.500 kg   |
| Gross weight                  | 4.500 kg   |
| Customs tariff number         | 84561190   |
| ECLASS 8.0                    | 36620404   |