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## AS 4055.922

## Perforex Milling Terminal MT 2101 S

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FRIEDHELM LOH GROUP



# AS 4055.922 - Perforex Milling Terminal MT 2101 S

US version – The Perforex Milling Terminal 2101 offers the greatest flexibility of the MT series. Supports machining of all compact and large enclosures.



## Features

|                     |                                                                                                                                                                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No.           | AS 4055.922                                                                                                                                                                                                                                                                                                                                          |
| Design              | Enclosure machining<br>Enclosure panel machining<br>Patented pressure plate with integral extraction of the milling swarf<br>High-performance spindle including minimal quantity lubrication<br>Automatic tool testing<br>DIN tools<br>Pneumatic clamping device<br>US version                                                                       |
| Product description | The Perforex Milling Terminal is a 4-axis CNC machine used for modifying standard enclosures. It provides automated machining of enclosure panels and housings e.g. for holes, threads and cut-outs. The Perforex Milling Terminal 2101 offers the greatest flexibility of the MT series. It supports machining of all compact and large enclosures. |

# Features

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benefits            | <p>Fast return on investment (ROI) and significantly enhanced competitiveness</p> <p>Short throughput times with consistently high machining quality</p> <p>Wire consistency with network-based software</p> <p>Easy to use with a clearly organised HMI and 24-inch screen</p> <p>Automatic tool change and integral tool length measurement</p> <p>Tool-friendly machining with minimal quantity lubrication system and plate</p> <p>Automatic swarf extraction when drilling and milling</p> <p>The high-performance spindle allows fast, precise, reliable machining</p> <p>Intuitive clamping system with pneumatic clamping device, optimised for enclosure components</p> |
| Supply includes     | The Perforex MT S is configured on a project-specific basis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Machinable material | <p>Aluminium</p> <p>Steel</p> <p>Stainless steel</p> <p>Plastic</p> <p>Copper</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Machine options     | <p>Signal pillar 4055.954</p> <p>Access from the right 4055.952</p> <p>Support arm system 4055.951</p> <p>Enclosure machining 2000 mm 4055.953</p> <p>2 additional zero points for multi-part machining 4050.066</p> <p>Access from the left 4055.950</p>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Machine controller  | <p>Order management with the Rittal Panel Processing Center (RiPPC)</p> <p>Operation with Rittal HMI</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Safety              | <p>Security fence to DIN EN ISO 13857</p> <p>Optical protective device in front of and behind the machine</p> <p>Reliable braking of the axes even in the event of a power failure</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Interfaces          | <p>Rittal Panel Processing Center (RiPPC)</p> <p>Eplan Pro Panel</p> <p>Rittal Configuration System</p> <p>Import of DXF data</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Note                | We reserve the right to make technical modifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# Features

|                                                 |                                                        |
|-------------------------------------------------|--------------------------------------------------------|
| Support area                                    | Width: 4,600 mm<br>Height: 2,450 mm<br>Depth: 3,750 mm |
| Compressed air connection                       | 6 bar                                                  |
| Weight of workpiece, panel machining (max.)     | 250 kg                                                 |
| Weight of workpiece, enclosure machining (max.) | 300 kg                                                 |
| No. of tool slots                               | 21                                                     |
| Machining accuracy                              | ± 0.2 mm                                               |
| Speed X/Y-axis                                  | 60.000 mm/min                                          |
| Speed Z-axis                                    | 12.000 mm/min                                          |
| Spindle speed (max.)                            | 21.000 rpm                                             |
| Spindle performance (max.)                      | 11 kW                                                  |
| Control voltage (DC)                            | 24 V                                                   |
| Rated current max.                              | 6,2 A                                                  |
| Rated operating voltage                         | 3L, 400 - 480 V / 230 - 277 V, 50/60 Hz                |
| Machining speed (max.)                          | 1.500 mm/min                                           |
| Dimensions of clampable enclosures min.         | Width: 100 mm<br>Height: 100 mm<br>Depth: 140 mm       |
| Dimensions of clampable enclosures max.         | Width: 1,400 mm<br>Height: 1,600 mm<br>Depth: 1,600 mm |
| Dimensions of clampable enclosure panels min.   | Width: 100 mm<br>Height: 100 mm<br>Depth: 1.25 mm      |
| Dimensions of clampable enclosure panels max.   | Width: 2,450 mm<br>Height: 1,700 mm<br>Depth: 5 mm     |

# Features

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| Maximum machinable area for enclosure panels | Width: 2,200 mm<br>Height: 1,700 mm |
| Maximum machinable area for enclosures       | Width: 1,200 mm<br>Height: 1,600 mm |
| Packs of                                     | 1 pc(s).                            |
| Net weight                                   | 2.300 kg                            |
| Gross weight                                 | 2.720 kg                            |
| Customs tariff number                        | 84596110                            |