

CYTURN

2-AXIS NC TABLE



COMPONENTS
PERFECTION.



MADE IN GERMANY



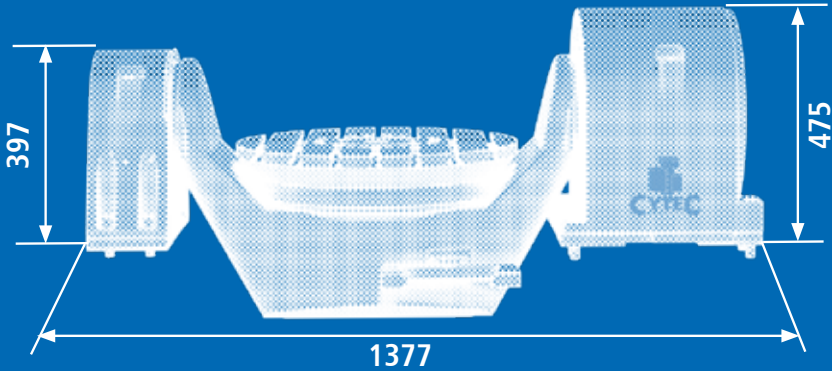
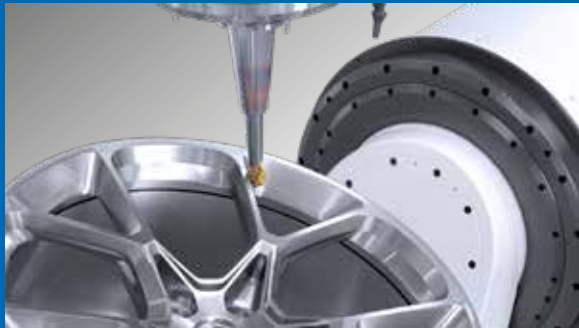
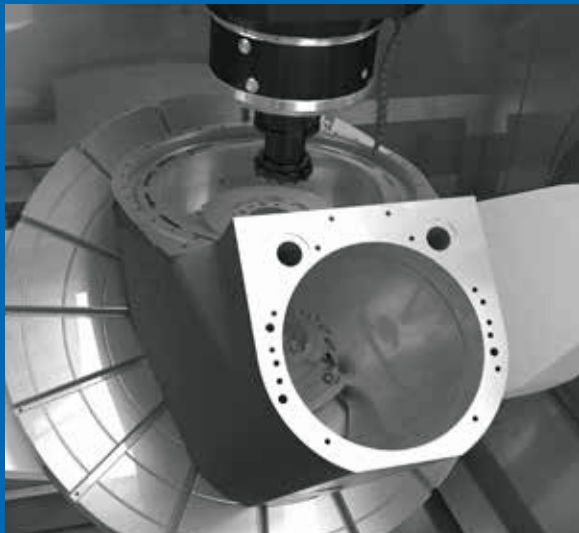
Introducing the CYTURN 2-Axis NC Rotary Tables, where cutting-edge technology meets meticulous engineering to cater to the most demanding precision machining needs. These tables are distinguished by their use of advanced Finite Element Method (FEM) analysis, optimizing the balance between structural integrity and weight efficiency. This results in a robust yet agile system, designed to enhance both the durability and performance of your machining operations, without the burden of unnecessary mass.

At the heart of the CYTURN series lies the latest generation of torque motors, tailored to meet diverse operational requirements. Choose from tables featuring ultra-high torque motors for intensive milling tasks or opt for those equipped with ultra-high speed motors for efficient mill/turn operations. This versatility ensures the CYTURN tables are adept at handling a wide array of machining tasks, from aerospace components to intricate automotive parts, with unmatched precision and efficiency.

The precision of the CYTURN tables is further bolstered by advanced hydraulic axis clamping and fall safety systems. These features are integral to the machine's design, enhancing both safety and accuracy. The hydraulic clamping mechanism is specifically engineered to provide distortion-free holding, ensuring that workpieces are machined with the utmost precision, maintaining their integrity without compromise.

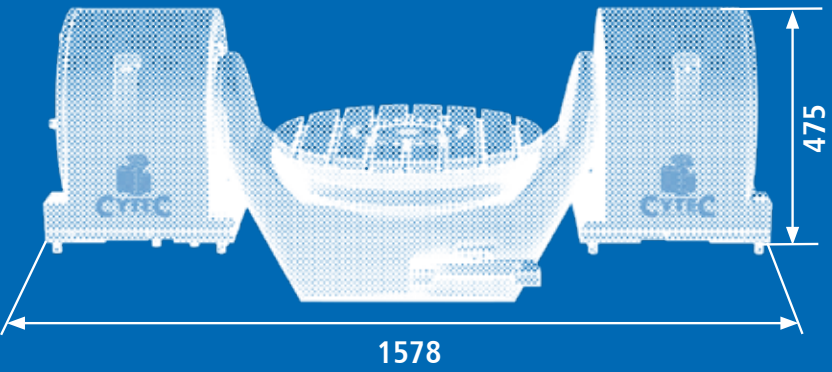
A standout feature of the CYTURN 2-Axis NC Rotary Tables is their sophisticated temperature management system. This system employs a state-of-the-art liquid cooling design that extends beyond cooling the motor, to include the structural elements of the table, thus preventing thermal distortion and maintaining accuracy over extended operating periods. For applications that demand even more stringent temperature control, additional cooling options are available for the rotary union and faceplate, ensuring every component maintains an optimal temperature for precision machining.

This comprehensive approach to design and temperature management underscores the CYTURN's commitment to reliability, precision, and performance. The CYTURN 2-Axis NC Rotary Tables are engineered to deliver consistent, high-level performance, ensuring they can withstand the rigors of continuous, high-intensity machining operations without a decline in accuracy or efficiency. These tables represent the pinnacle of machining technology, offering a reliable, efficient, and precise solution for the most challenging manufacturing environments.



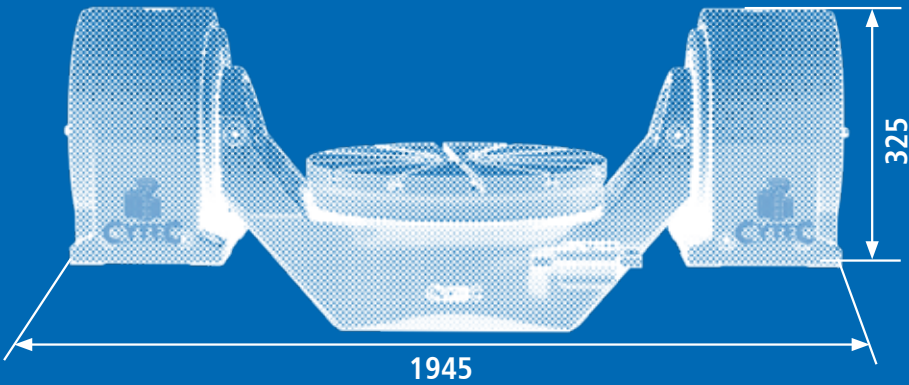
Single drive
CRT-2-500 / 600

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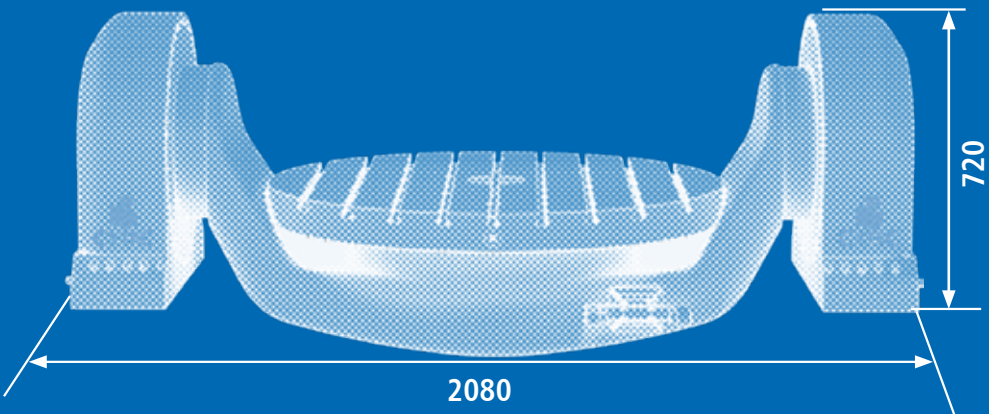
Dual drive
CRT-2-500 / 600

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Dual drive
CRT-2-630 / 800

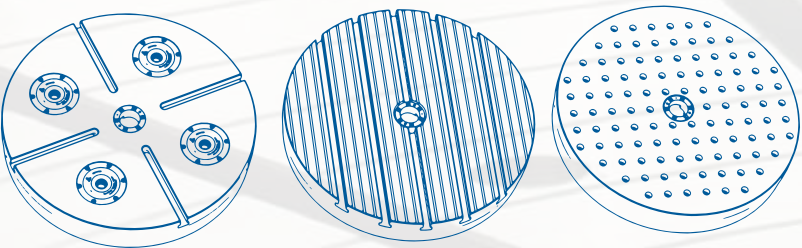
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Dual drive
CRT-2-1000 / 1200

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Optional
Faceplate and Rotary Union Cooling



Up to 8 pneumatic / hydraulic passages

A - Axis	HighTorque
Rated/max. torque [Nm]:	1.440 / 2.390
Clamping torque [Nm]:	3.200
Drop safty [Nm]:	1.000
Speed max. [rpm]:	100
Position accuracy ["]:	4 / 2

C - Axis	MILL	MILL / TURN
Diameter [mm]:	500 / 600	500 / 600
Rated/max. torque [Nm]	550 / 970	550 / 970
Clamping torque [Nm]:	3.200	3.200
Drop safty [Nm]:	1.000	1.000
Speed max. [rpm]:	200	1.500
Load max. [kg]	600	350
Position accuracy ["]:	4 / 2	4 / 2

CYTURN ADVANTAGES:

- + Active Faceplate cooling

(max growth of 35 µ)
- + Active safty clamping

with extreme holding torque
- + wrap and playfree axis clamping

5.000.000 clamping cycles
- + Active Faceplate cooling

constant temperature
- + high accuracy package

optional
- + automatic balancing system

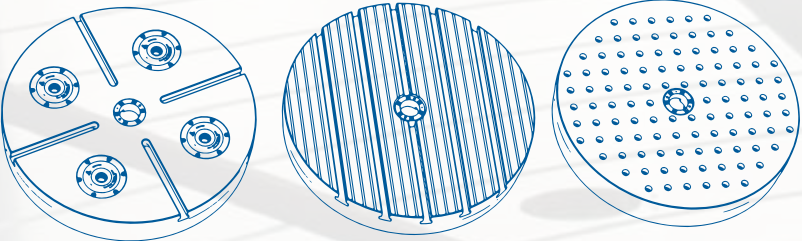
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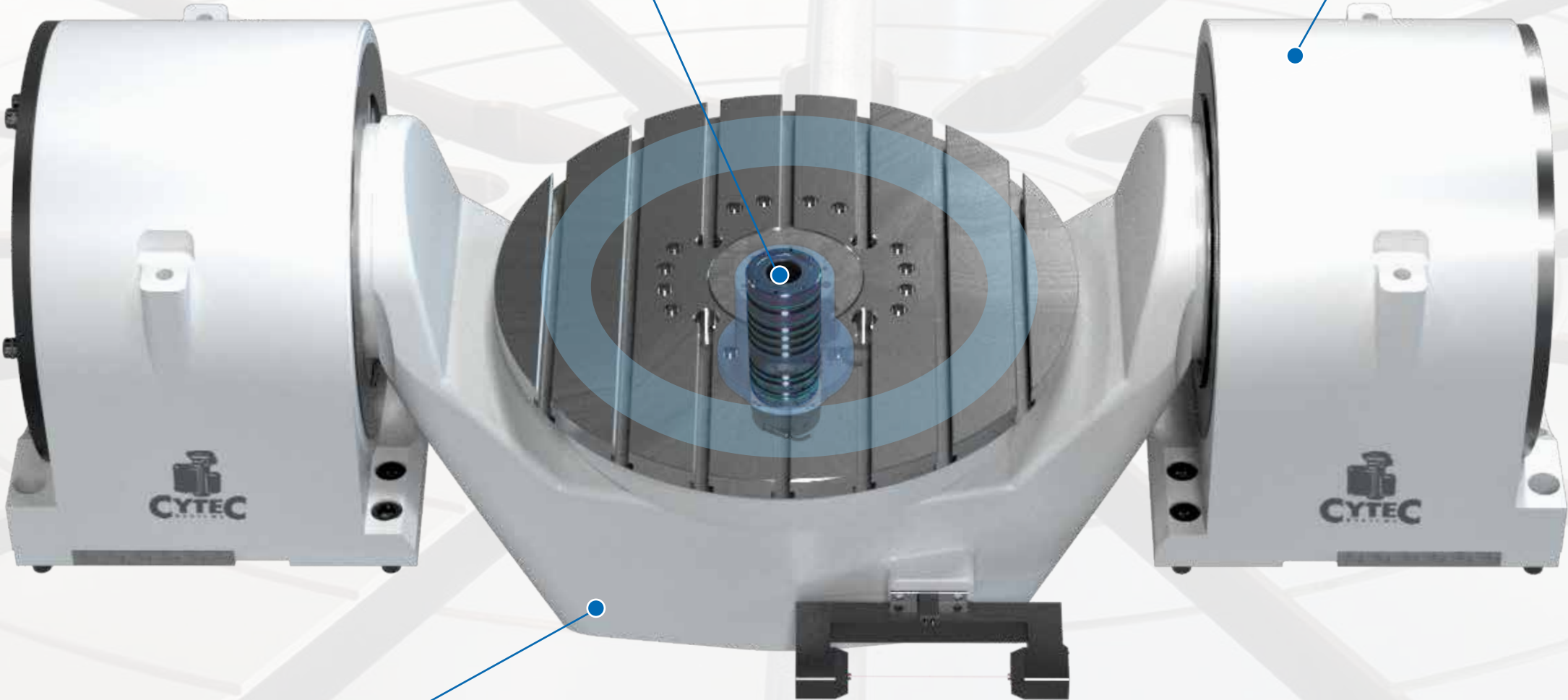
UHT DirectDrives



Optional
Faceplate and Rotary Union Cooling



Up to 8 pneumatic / hydraulic passages



A - Axis	HighTorque
Rated/max. torque [Nm]:	2.880 / 4.780
Clamping torque [Nm]:	6.400
Drop safty [Nm]:	2.000
Speed max. [rpm]:	100
Position accuracy ["]:	4 / 2

C - Axis	MILL	MILL / TURN
Diameter [mm]:	500 / 600	500 / 600
Rated/max. torque [Nm]:	550 / 970	550 / 970
Clamping torque [Nm]:	3.200	3.200
Drop safty [Nm]:	1.000	1.000
Speed max. [rpm]:	200	1.500
Load max. [kg]	600	350
Position accuracy ["]:	4 / 2	4 / 2

CYTURN ADVANTAGES:

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(max growth of 35 µ)
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with extreme holding torque
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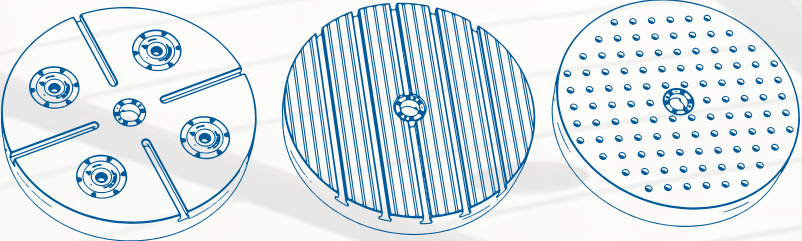
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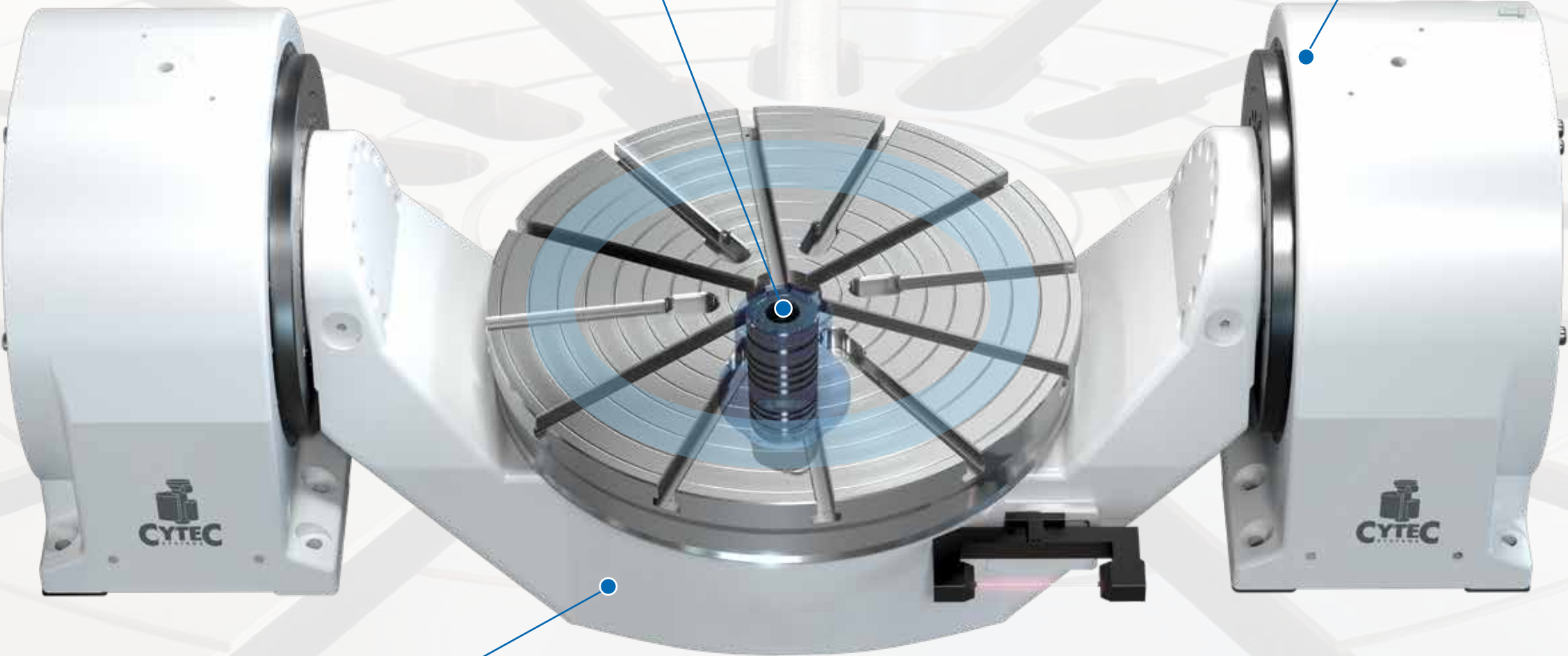
UHT DirectDrives



Optional
Faceplate and Rotary Union Cooling



Up to 8 pneumatic / hydraulic passages



A - Axis	HighTorque
Rated/max. torque [Nm]:	5.140 / 8.220
Clamping torque [Nm]:	8.000
Drop safty [Nm]:	4.000
Speed max. [rpm]:	100
Position accuracy ["]:	4 / 2

C - Axis	MILL	MILL / TURN
Diameter [mm]:	630/800	630/800
Rated/max. torque [Nm]	2.570 / 4.110	2.100 / 3.100
Clamping torque [Nm]:	4.000	4.000
Drop safty [Nm]:	2.000	2.000
Speed max. [rpm]:	110	1.000
Load max. [kg]	1.300	850
Position accuracy ["]:	4 / 2	4 / 2

CYTURN ADVANTAGES:

- + Active Faceplate cooling

(max growth of 35 µ)
- + Active safty clamping

with extreme holding torque
- + wrap and playfree axis clamping

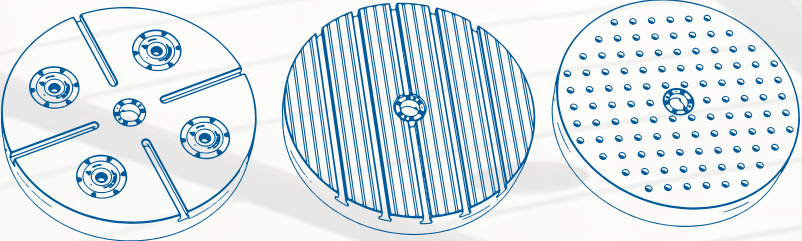
5.000.000 clamping cycles
- + Active Faceplate cooling

constant temperature
- + high accuracy package

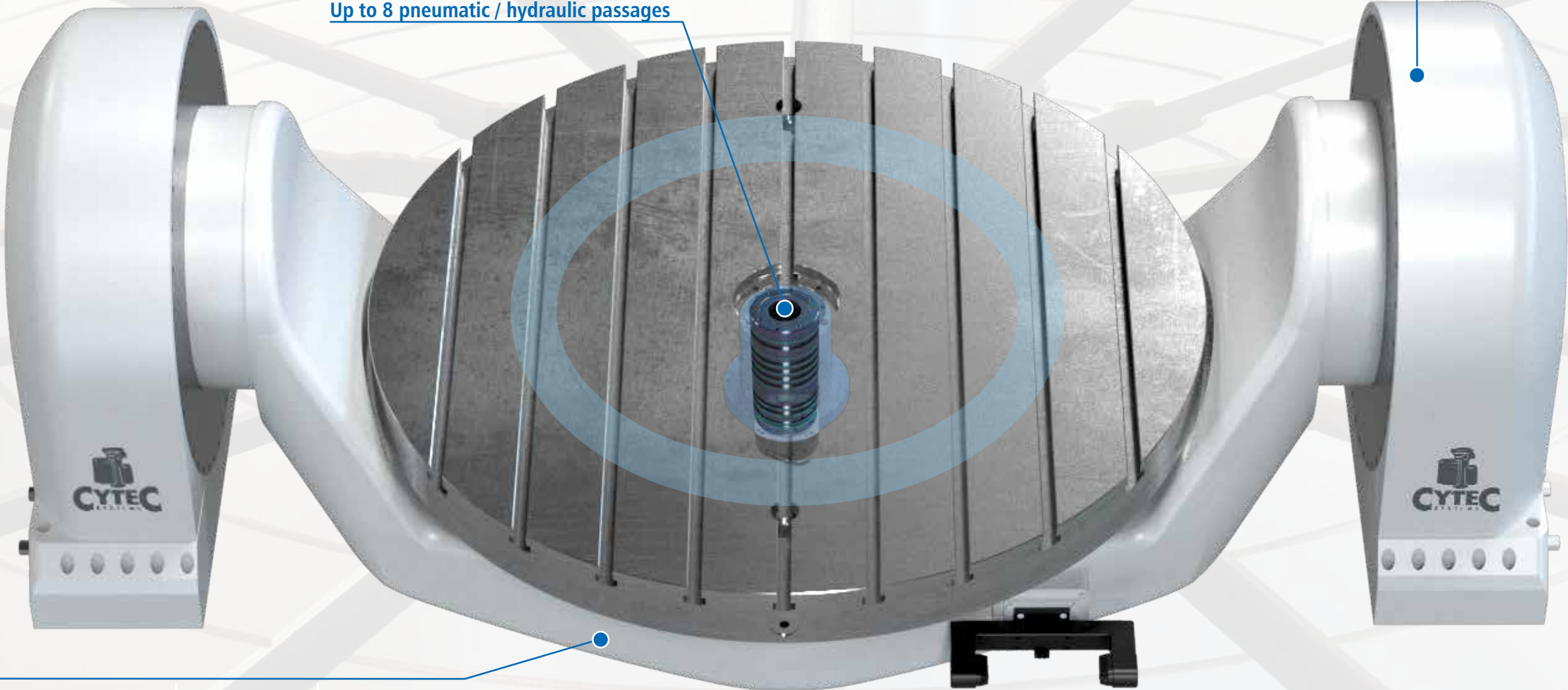
optional
- + automatic balancing system

optional

Optional
Faceplate and Rotary Union Cooling



Up to 8 pneumatic / hydraulic passages



A - Axis	HighTorque
Rated/max. torque [Nm]:	7.200 / 12.550
Clamping torque [Nm]:	15.000
Drop safty [Nm]:	6.000
Speed max. [rpm]:	100
Position accuracy ["]:	4 / 2

C - Axis	MILL	MILL / TURN
Diameter [mm]:	1.000 / 1.200	1.000 / 1.200
Rated/max. torque [Nm]	3.600 / 6.710	2.600 / 4.550
Clamping torque [Nm]:	7.500	7.500
Drop safty [Nm]:	3.000	3.000
Speed max. [rpm]:	80	750
Load max. [kg]	2.500	1.000
Position accuracy ["]:	4 / 2	4 / 2

CYTURN ADVANTAGES:

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with extreme holding torque
- + wrap and playfree axis clamping

5.000.000 clamping cycles
- + Active Faceplate cooling

constant temperature
- + high accuracy package

optional
- + automatic balancing system

optional



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CyTurn | 03/2024 | english

We reserve the right to make technical modifications. The components/ machines shown here may include options, accessories and control variants.