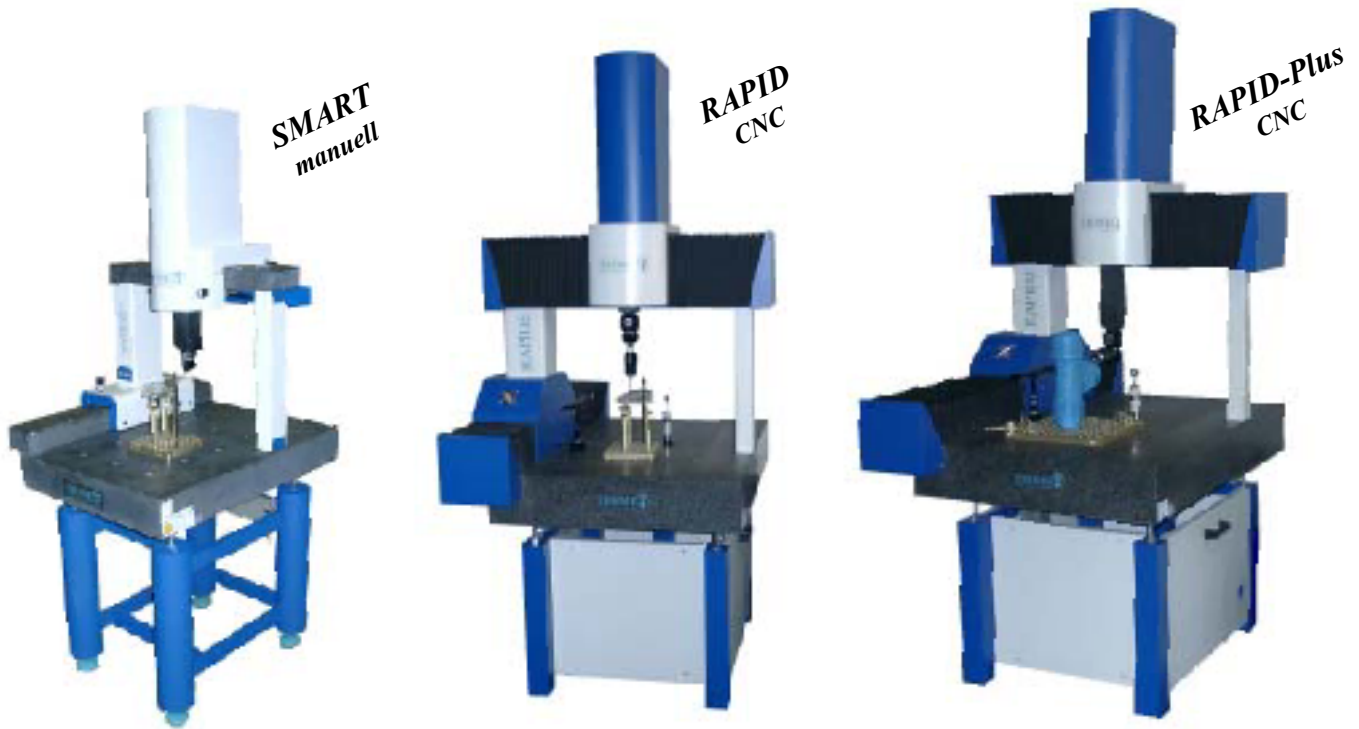


Coordinate Measuring Machines Program



The coordinate measuring machines from Thome Präzision are precise, robust and generally maintenance free. The machines are equipped with optimized air bearing guides in all axis. Granite and ceramic guides give the required rigidity and thermal stability. Double passive vibration absorbers are the standard in all of our machines. Air vibration absorbers may be built into the machines upon request. This added feature dampens low frequency vibrations as well. All CNC machine guides are enclosed, which protect the lapped granite surfaces

from dirt, damage and direct thermal influences. Optimal positioning is created by rigid and wear free belts, driven by highly dynamic servo motors. In this way, the machines are ideal for scanning functions. The advantages of this procedure is a very exact measurement of the workpiece shape, and the amount of time saved compared to normal mechanical probing. Thanks to our building block principle, we are able to offer various different sizes of machines, other than those listed here.

| | | SMART manuell | | | RAPID | | | | RAPID-Plus | | |
|--------------------------|-----------------------|---|------|------|--|------|------|------|--|------|------|
| Measuring area | X-Axis [mm] | 500 | 600 | 800 | 600 | 700 | 900 | 1100 | 800 | 1000 | 1200 |
| | Y-Axis [mm] | 400 | 400 | 400 | 500 | 500 | 500 | 500 | 600 | 600 | 600 |
| | Z-Axis [mm] | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 500 | 500 | 500 |
| Working height | [mm] | 850 | | | 850 | | | | 850 | | |
| Overall Dim. | Length (L) [mm] | 1000 | 1100 | 1300 | 1360 | 1460 | 1660 | 1860 | 1560 | 1760 | 1960 |
| | Width (W) [mm] | 780 | | | 990 | | | | 1100 | | |
| | Height (H) [mm] | 1750 | | | 2115 | | | | 2315 | | |
| Measuring accuracy | VDI 2617[μm] | 3+(L/250)* | | | 2,5+(L/350)* | | | | 2,5+(L/400)* | | |
| | | 4+(L/300)* | | | 3+(L/300)* | | | | 3,0+(L/350)* | | |
| Resolution | [mm] | 0.0005 | | | 0.0005 | | | | 0.0005 | | |
| Speed | [mm/s] | | | | | | | | | | |
| Calibration | | | | | 0 to 70 | | | | 0 to 70 mm/s | | |
| Production Axis/Vector | | | | | to 300 / 530 | | | | to 250 / 430 | | |
| Acceleration | [mm/s ²]: | | | | 1400 | | | | 1200 | | |
| | Axis Vector | | | | 2000 | | | | 1800 | | |
| Weight | [kg] | 350 | 410 | 500 | 550 | 600 | 950 | 1400 | 900 | 1200 | 1500 |
| max. weight of workpiece | [kg] | 200 | 220 | 250 | 450 | 480 | 500 | 550 | 550 | 600 | 650 |
| Operational Voltage | | 110/220V, 50/60Hz | | | 110/220V, 50/60Hz | | | | 110/220V, 50/60Hz | | |
| Power input | | 500Watt | | | 1000Watt | | | | 1300Watt | | |
| Operating temperature | | 20°C 2°C max. 1°C/h 1,5°C pro Day | | | 20°C 2°C max. 1°C pro Stunde 1,5°C pro Day | | | | 20°C 2°C max. 1°C pro Stunde 1,5°C pro Day | | |
| Air consumption | ISO8573 | 25l/min pre-cleaned Class 4 | | | 25l/min pre-cleaned Class 4 | | | | 25l/min pre-cleaned Class 4 | | |

* Higher precision upon request