

MCC.

COMPACT. POWERFUL. UNCOMPROMISINGLY BW.

With a compact and small footprint, the machines of the MCC series are the smallest BW manufactures. This certainly applies only to the overall machine sizes. Because under the hood lurks uncompromisingly a bullish workhorse. Mercilessly strong and extremely economical.

The MCC is a true BURKHARDT+WEBER and sets new standards for its size range in regard to accuracy, superior rigidity and dependable reliability.

The MCC is available as stand-alone machining centre or ready for integration into automation systems.



MCC – THE ULTRA-COMPACT SERIES.

CASH COW WITH BW GENES.

Pure Power. No compromises. Its attractive price and its excellent total cost of ownership provide the user with outstanding cost-effectiveness in series production. This is achieved by standardising, a well thought design and latest state-of-the-art technologies. Just everything that makes a true BURKHARDT+WEBER.






High torque geared spindle for uncompromised machining.





Direct driven spindle with A-axis configuration for 5-axis machining.

MCC – THE ULTRA-COMPACT SERIES.

TECHNICAL DATA.

| MCC (Metric System) | Unit | 630 | 800 |
|---|---------|---|---|
|  | |  |  |
| Working range up to X Y Z (standard) | mm | 1,100 900 1,100 | 1,400 1,200 1,400 |
| Working range up to X Y Z (optional) | mm | 1,100 900 1,300 | 1,400 1,200 1,600 |
| Workpiece swing diameter Ø x H | mm | 1,100x1,300 | 1,500x1,500 |
| Pallet size (standard) | mm | 630 x 630 | 800 x 800 |
| Pallet size (optional) | mm | 630x800 | 800x1,000, 1,000x1,000 |
| Max. pallet loading (workpiece + fixture) | kg | 1,500 | 2,500 |
| Feed force X Y Z | kN | 17.5 17.5 17.5 | 17.5 17.5 17.5 |
| Rapid traverse X Y Z (standard strokes) | m/min | 60 60 60 | 60 60 60 |
| Pa ¹ X Y Z | mm | 0.007 | 0.007 |
| B-axis | degrees | 360,000x0.001 | 360,000x0.001 |
| Table speed milling turning | rpm | 40 700 | 40 650 |
| Tilting moment | Nm | 26,000 | 28,000 |
| Tangential torque | Nm | 8,000 | 10,000 |
| MOTOR SPINDLE | | | |
| Spindle power, 100% duty cycle | kW | 30 | 30 |
| Max. torque, 100% duty cycle | Nm | 300 | 300 |
| Standard speed range (optional) | rpm | 20 – 6,000 (10,000) | 20 – 6,000 (10,000) |
| GEAR SPINDLE | | | |
| Spindle power, 100% duty cycle | kW | 41 | 41 |
| Max. torque, 100% duty cycle | Nm | 1,300 | 1,300 |
| Standard speed range (optional) | rpm | 20 – 6,000 (10,000) | 20 – 6,000 (10,000) |
| SWIVEL SPINDLE | | | |
| Spindle power, 100% duty cycle | kW | 30 | 30 |
| Max. torque, 100% duty cycle | Nm | 300 | 300 |
| Standard speed range (optional) | rpm | 20 – 6,000 (10,000) | 20 – 6,000 (10,000) |
| Swivel range | degrees | +45 / -110 | +45 / -110 |
| Tool holder (standard) | | HSK-A100 | HSK-A100 |
| Tool holder (optional) | | ISO 50 | ISO 50 |
| Tool clamping force, HSK-A100 (ISO 50) | N | 45,000 (25,000) | 45,000 (25,000) |
| Number of tool positions | | 64 – 128 | 64 – 320 |
| Tool diameter | mm | 125 (350) | 125 (350) |
| Tool length | mm | 650 | 650 |
| Max. tool weight (optional) | kg | 30 (40) | 30 (40) |
| Min. chip-to-chip time | s | 5 | 6 |
| Min. pallet change time | s | 12 | 20 |
| Machine control, Siemens Sinumerik | | SIN 840D sl | SIN 840D sl |
| Installation area, LxWxH, approximately | mm | 8,000x3,300x3,500 | 8,800x3,500x3,800 |
| Weight, approximately | kg | 27,000 | 30,000 |

| MCC (Imperial System) | Unit | 630 | 800 |
|---|---------|---|---|
|  | |  |  |
| Working range up to X Y Z (standard) | in | 43.31 35.43 43.31 | 55.12 47.24 55.12 |
| Working range up to X Y Z (optional) | in | 43.31 35.43 51.18 | 55.12 47.24 62.99 |
| Workpiece swing diameter Ø x H | in | 43.31x51.18 | 59.06x59.06 |
| Pallet size (standard) | in | 24.80 X 24.80 | 31.50 x 31.50 |
| Pallet size (optional) | in | 24.80x31.50 | 31.50x39.37, 39.37x39.37 |
| Max. pallet loading (workpiece + fixture) | lbs | 3,307 | 5,512 |
| Feed force X Y Z | lb | 3,934 3,934 3,934 | 3,934 3,934 3,934 |
| Rapid traverse X Y Z (standard strokes) | in/min | 2,362 2,362 2,362 | 2,362 2,362 2,362 |
| Pa ¹ X Y Z | in | 0.00028 | 0.00028 |
| B-axis | degrees | 360,000x0.001 | 360,000x0.001 |
| Table speed milling turning | rpm | 40 700 | 40 650 |
| Tilting moment | lb/in | 230,120 | 247,820 |
| Tangential torque | lb/in | 70,806 | 88,507 |
| MOTOR SPINDLE | | | |
| Spindle power, 100% duty cycle | HP | 40 | 40 |
| Max. torque, 100% duty cycle | lb/in | 2,655 | 2,655 |
| Standard speed range (optional) | rpm | 20 – 6,000 (10,000) | 20 – 6,000 (10,000) |
| GEAR SPINDLE | | | |
| Spindle power, 100% duty cycle | HP | 55 | 55 |
| Max. torque, 100% duty cycle | lb/in | 11,506 | 11,506 |
| Standard speed range (optional) | rpm | 20 – 6,000 (10,000) | 20 – 6,000 (10,000) |
| SWIVEL SPINDLE | | | |
| Spindle power, 100% duty cycle | HP | 40 | 40 |
| Max. torque, 100% duty cycle | lb/in | 2,655 | 2,655 |
| Standard speed range (optional) | rpm | 20 – 6,000 (10,000) | 20 – 6,000 (10,000) |
| Swivel range | degrees | +45 / -110 | +45 / -110 |
| Tool holder (standard) | | HSK-A100 | HSK-A100 |
| Tool holder (optional) | | ISO 50 | ISO 50 |
| Tool clamping force, HSK-A100 (ISO 50) | lb | 10,116 (5,620) | 10,116 (5,620) |
| Number of tool positions | | 64 – 128 | 64 – 320 |
| Tool diameter | in | 4.92 (13.78) | 4.92 (13.78) |
| Tool length | in | 25.59 | 25.59 |
| Max. tool weight (optional) | lbs | 66.14 (88.18) | 66.14 (88.18) |
| Min. chip-to-chip time | s | 5 | 6 |
| Min. pallet change time | s | 12 | 20 |
| Machine control, Siemens Sinumerik | | SIN 840D sl | SIN 840D sl |
| Installation area, LxWxH, approximately | in | 315x130x137.8 | 346.5x137.8x149.6 |
| Weight, approximately | lbs | 59,525 | 66,139 |

¹ according to VDI/DGQ 3441