

08 Series

Technical Data

Machining centers with fixed table

| Technical Data (Siemens / Fanuc) | FZ 08 S MAGNUM | FZ 08 S MAGNUM with NC swivel head | DZ 08 S MAGNUM |
|---|-------------------------------|--|-------------------------------|
| Drilling capacity in St 60 with inserted drill | Ø 14 / 16 mm | Ø 12 mm | 2 x Ø 12 mm |
| Thread cutting | M 12 | M 8 | 2 x M 8 |
| Milling capacity in St 60 | 40 / 60 cm ³ /min | 30 cm ³ /min | 2 x 30 cm ³ /min |
| Tool places | 24 | 24 | 2 x 16 |
| Tool taper DIN 69893 | HSK-A 40 | HSK-A 40 | HSK-A 40 |
| Max. tool diameter | 47 mm | 47 mm | 63 mm |
| Max. tool diameter if adjacent places are free | 100 mm | 100 mm | 63 mm |
| Max. tool length | 200 mm | 200 mm | 160 mm |
| Max. tool weight | 1.2 kg | 1.2 kg | 1.2 kg |
| Tool change time | 0.8 s | 0.8 s | 0.8 s |
| Chip-to-chip time approx. | 2.4 s | – | 2.9 s |
| Chip-to-chip time from swivel head position 0° (vertical) | – | 2.1 s | – |
| Chip-to-chip time from swivel head position 0° (horizontal) | – | 2.1 s | – |
| Spindel distance in X | – | – | 200 mm |
| Infinitely variable speed range | 15,000 rpm | 15,000 rpm ⁻¹ | 18,000 rpm ⁻¹ |
| Max. torque (Siemens/Fanuc) | 18 / 23 Nm | 15 Nm | 2 x 15 Nm |
| Spindle drive (Siemens/Fanuc) | 7,3 / 7,4 kW | 14 kW | 2 x 14 kW |
| Max. speed thread cutting | 8,000 rpm | 8,000 rpm | 8,000 rpm |
| Spindle bearing diameter - front | 40 mm | 40 mm | 40 mm |
| Tool clamping | 6,500 N | 6,500 N | 6,500 N |
| Clearance spindle take-up – table surface | 170 – 480 mm | 170 – 480 mm | 170 – 480 mm |
| Travel X / Y / Z axis | 450 / 270 / 310 mm | 450 / 270 / 310 mm | 450 / 270 / 310 mm |
| Feed force X / Y / Z axis | 2,000 / 2,000 / 3,000 N | 2,000 / 2,000 / 3,000 N | 2,000 / 2,000 / 3,000 N |
| Rapid feed rate X / Y / Z axis | 75 / 75 / 75 m/min | 75 / 75 / 75 m/min | 75 / 75 / 75 m/min |
| Acceleration X / Y / Z axis | 10 / 15 / 20 m/s ² | 10 / 15 / 20 m/s ² | 10 / 15 / 20 m/s ² |
| Direct path measuring system in all axis | • | • | • |
| Fixed table | | | |
| Clamping surface | 740 mm x 300 mm | 740 mm x 300 mm | 740 mm x 300 mm |
| Mounting hole pattern | M16 x Ø15H7 x 50 mm | M16 x Ø15H7 x 50 mm | M16 x Ø15H7 x 50 mm |
| Table load capacity | 500 kg | 500 kg | 500 kg |
| Swivel head | | | |
| Swivelling range of the spindle | – | - 20° / + 115° | – |
| Rapid feed rate B axis | – | 60 rpm | – |
| Acceleration time B axis | – | 5 1/s ² | – |
| Cooling unit, tank capacity | 180 l | 180 l | 180 l |
| Total connected power approx. | 17 kVA | 17 kVA | 30 kVA |
| Machine weight approx. | 4.5 t | 4.5 t | 4.5 t |
| Floor space approx.. | 3.4 m ² | 3.4 m ² | 3.8 m ² |
| Air connection | 6 bar | 6 bar | 6 bar |

| Options | FZ 08 S MAGNUM | FZ 08 S MAGNUM with NC swivel head | DZ 08 S MAGNUM |
|--|---|---|--|
| Technology package „Milling from bars“ | | | |
| NC Rotary table, speed max.. | – | 80 rpm | – |
| Autom. collet chuck clamping up to | – | 24 mm | – |
| NC slide for bar feed, max. stroke | – | 460 mm | – |
| NC indexing device with clamping stock for processing the 6th side | – | • | – |
| Technology package “Turning from bars“ | | | |
| Turning spindle with collet chuck holder | • | • | – |
| Infinitely variable speed range up to | 8,000 rpm | 8,000 rpm | – |
| Max. torque | 14.3 kW | 14.3 kW | – |
| Max. bar passage. | 32 / 42 mm | 32 / 42 mm | – |
| NC slide for bar feed, max. stroke | – | 460 mm | – |
| High Speed Plus package | | | |
| Increased speed range up to | 30,000 rpm | 30,000 rpm | 2 x 30,000 rpm |
| Tool taper DIN 69893 | HSK-A 40 | HSK-A 40 | HSK-A 40 |
| Max. torque | 11 Nm | 11 Nm | 2 x 11 Nm |
| Spindle drive | 9 kW | 9 kW | 2 x 9 kW |
| Spindle ramp time up to max. speed approx. | 2.1 s | 1.9 s | 1.9 s |
| High Speed Plus package | | | |
| Increased speed range up to | 40,000 rpm | – | 2 x 40,000 rpm |
| Tool taper DIN 69893 | HSK-E 40 | – | HSK-E 40 |
| Max. torque | 9 Nm | – | 2 x 9 Nm |
| Spindle drive | 18 kW | – | 2 x 18 kW |
| Spindle ramp time up to max. speed approx. | 2.1 s | – | 2.1 s |
| More Options | | | |
| Tool places | 40 / 2 x 40 | 40 / 2 x 40 | – |
| Coolant through the spindle up to | 150 bar up to 15,000 rpm 70 bar up to 40,000 rpm | 150 bar bis 15,000 rpm 70 bar bis 30,000 rpm | 150 bar bis 18,000 rpm 70 bar bis 40,000 mrpm |
| Chip conveyor | • | • | Standard |
| Coolant treatment | • | • | • |
| NC rotary table | • | • | – |
| NC rotary table with basic device | • | • | • |
| Workpiece gripper in main spindle | • | • | • |
| Tool life monitoring | • | • | • |
| Tool measurement and management | • | • | • |
| CHIRON Laser Control | • | • | • |
| Tool breakage monitoring | • | • | • |
| Stationary 3D probing system | • | • | • |
| Probe | • | • | • |
| Work area mist collection | • | • | • |
| Connection for central mist collection | • | • | • |
| Oil package | • | • | • |
| Machining with minimal lubrication | • | • | • |
| Pneumatic connection for clamping devices | • | • | • |
| Hydraulic unit and connection for clamping devices | • | • | • |
| Automatic doors | • | • | • |
| Handwheel | • | • | • |
| Central lubrication | • | • | • |
| Electrical interface for bar loader | – | • | – |
| Handling robot with workpiece storage | • | • | • |
| Electrical robot interface | • | • | • |
| Variocell UNO / SYSTEM | • | • | • |

Machining centers in five axis version

| Technical Data | FZ 08 FX MAGNUM | DZ 08 FX MAGNUM |
|--|-------------------------------|-------------------------------|
| Drilling capacity in St 60 with inserted drill | Ø 14 / 16 mm | 2 x Ø 12 mm |
| Thread cutting | M 12 | 2 x M 8 |
| Milling capacity in St 60 | 40 / 60 cm ³ /min | 2 x 30 cm ³ /min |
| Tool places | 24 | 2 x 16 |
| Tool taper DIN 69893 | HSK-A 40 | HSK-A 40 |
| Max. tool diameter | 47 mm | 63 mm |
| Max. tool diameter if adjacent places are free | 100 mm | 63 mm |
| Max. tool length | 200 mm | 160 mm |
| Max. tool weight | 1.2 kg | 1.2 kg |
| Tool change time approx. | 0.8 s | 0.8 s |
| Chip-to-chip time approx. | 2.4 s | 2.9 s |
| Infinately variable speed range | 15,000 rpm | 2 x 18,000 rpm |
| Max. torque (Siemens/Fanuc) | 18 / 23 Nm | 2 x 15 Nm |
| Spindle drive (Siemens/Fanuc) | 7.3 / 7.4 kW | 2 x 14 kW |
| Max. speed thread cutting | 8,000 rpm | 8,000 rpm |
| Spindle bearing diameter | 40 mm | 40 mm |
| Tool clamping | 6,500 N | 6,500 N |
| Clearance spindle take-up – table surface | 140 – 450 mm | 140 – 450 mm |
| Travel X / Y / Z axis | 450 / 270 / 310 mm | 450 / 270 / 310 mm |
| Feed force X / Y / Z axis | 2,000 / 2,000 / 3,000 N | 2,000 / 2,000 / 3,000 N |
| Rapid feed rate X / Y / Z axis | 75 / 75 / 75 m/min | 75 / 75 / 75 m/min |
| Acceleration X / Y / Z axis | 10 / 15 / 20 m/s ² | 10 / 15 / 20 m/s ² |
| Direct path measuring system in all axis | • | • |
| 2-axis NC tilt rotary table | B-C cinematics | A-C cinematics |
| NC swivel range | ± 100° / ± 360° | ± 120° / ± 360° |
| Face plate diameter | 245 mm | 2 x 195 mm |
| Mounting hole pattern | M 16 x 50 mm | M 12 x 25 mm |
| Load capacity | 80 kg | 40 kg |
| Speed 4th / 5th Axis | 100 / 200 (1,000) | 250 / 200 (1,000) |
| Media line to the adapter face plate | 6 | 2 x 6 |
| | A-C cinematics | |
| NC swivel range | ± 120° / ± 360° | – |
| Face plate diameter | 95 mm | – |
| Mounting hole pattern | M 10 x 25 mm | – |
| Load capacity | 40 kg | – |
| Speed 4th / 5th Axis | 250 / 200 (1,000) | – |
| Media line to the adapter face plate | 6 | – |
| Cooling unit, tank capacity | 180 l | 180 l |
| Total connected power approx. | 22 kVA | 30 kVA |
| Machine weight approx. | 4.5 t | 4.5 t |
| Floor space approx. | 3.4 m ² | 3.8 m ² |
| Air connection | 6 bar | 6 bar |

| Options | FZ 08 FX MAGNUM | DZ 08 FX MAGNUM |
|--|---|---|
| High Speed Plus package | | |
| Increased speed range up to | 30,000 rpm | 2 x 30,000 rpm |
| Tool taper DIN 69893 | HSK-A 40 | HSK-A 40 |
| Max. torque | 11 Nm | 2 x 11 Nm |
| Spindle drive | 9 kW | 2 x 9 kW |
| Spindle ramp time up to max. speed approx. | 2.1 s | 2.1 s |
| High Speed Plus package | | |
| Increased speed range up to | 40,000 rpm | 2 x 40,000 rpm |
| Tool taper DIN 69893 | HSK-E 40 | HSK-E 40 |
| Max. torque | 9 Nm | 2 x 9 Nm |
| Spindle drive | 18 kW | 2 x 18 kW |
| Spindle ramp time up to max. speed approx. | 2.1 s | 2.1 s |
| More Options | | |
| Tool places | 40 / 2 x 40 | – |
| Coolant through the spindle up to | 150 bar up to 15,000 rpm 70 bar up to 40,000 rpm | 150 bar up to 15,000 rpm 70 bar up to 40,000 rpm |
| Chip conveyor | • | Standard |
| Coolant treatment | • | • |
| Workpiece gripper in main spindle | • | • |
| 2-axis NC tilt rotary table in A-C kinematics with one face plate | • | – |
| 2-axis NC tilt rotary table in A-C kinematics with two face plates | • | Standard |
| Zero point clamping system integrated in adapter face plate | • | • |
| Tool life monitoring | • | • |
| Tool measurement and management | • | • |
| CHIRON Laser Control | • | • |
| Tool breakage monitoring | • | • |
| Stationary 3D probing system | • | • |
| Probe | • | • |
| Work area mist collection | • | • |
| Connection for central mist collection | • | • |
| Oil package | • | • |
| Machining with minimal lubrication | • | • |
| Pneumatic connection for clamping devices | • | • |
| Hydraulic unit and connection for clamping devices | • | • |
| Automatic doors | • | • |
| Handwheel | • | • |
| Central lubrication | • | • |
| Handling robot with workpiece storage | • | • |
| Electrical robot interface | • | • |
| Variocell UNO / SYSTEM | • | • |
| Control: Heidenhain | • | – |

Machining centers with workpiece changer

| Technical Data | FZ 08 W MAGNUM | DZ 08 W MAGNUM |
|--|-------------------------------|-------------------------------|
| Drilling capacity in St 60 with inserted drill | Ø 14 / 16 mm | 2 x Ø 12 mm |
| Thread cutting | M 12 | M 12 |
| Milling capacity in St 60 | 40 / 60 cm ³ /min | 2 x 20 cm ³ /min |
| Tool places | 24 | 2 x 16 |
| Tool taper DIN 69893 | HSK-A 40 | HSK-A 40 |
| Max. tool diameter | 47 mm | 63 mm |
| Max. tool diameter if adjacent places are free | 100 mm | 63 mm |
| Max. tool length | 200 mm | 160 mm |
| Max. tool weight | 1.2 kg | 1.2 kg |
| Tool change time approx. | 0.8 s | 0.8 s |
| Chip-to-chip time approx. | 2.4 s | 2.9 s |
| Spindle distance in X | – | 200 mm |
| Ininitely variable speed range | 15,000 rpm | 18,000 rpm |
| Max. torque (Siemens/Fanuc) | 18 / 23 Nm | 2 x 15 Nm |
| Spindle drive (Siemens/Fanuc) | 7.3 / 7.4 kW | 2 x 14 kW |
| Max. speed thread cutting | 8,000 rpm | 8,000 rpm |
| Spindle bearing diameter -front | 40 mm | 40 mm |
| Tool clamping | 6,500 N | 6,500 N |
| Clearance spindle take-up – table surface | 170 – 480 mm | 170 – 480 mm |
| Travel X / Y / Z axis | 450 / 270 / 310 mm | 450 / 270 / 310 mm |
| Feed force X / Y / Z axis | 2,000 / 2,000 / 3,000 N | 2,000 / 2,000 / 3,000 N |
| Rapid feed rate X / Y / Z axis | 75 / 75 / 75 m/min | 75 / 75 / 75 m/min |
| Acceleration X / Y / Z axis | 10 / 15 / 20 m/s ² | 10 / 15 / 20 m/s ² |
| Direct path measuring system in all axis | • | • |
| Workpiece changing device with speed control | 0° / 180° | 0° / 180° |
| Clamping surface | 2 x 660 mm x 350 mm | 2 x 660 mm x 350 mm |
| Mounting hole pattern | M16 x Ø15H7 x 50 mm | M16 x Ø15H7 x 50 mm |
| Workpiece change time approx. | 2.0 s | 2.0 s |
| Load capacity per table side | 200 kg | 200 kg |
| Cooling unit, tank capacity | 180 l | 180 l |
| Total connected power approx. | 17 kVA | 30 kVA |
| Machine weight approx. | 3.6 t | 3.6 t |
| Floor space approx. | 3.0 m ² | 3.0 m ² |
| Air connection | 6 bar | 6 bar |

| Options | FZ 08 W MAGNUM | DZ 08 W MAGNUM |
|--|-------------------|-------------------|
| High Speed Plus package | | |
| Increased speed range up to | 30,000 rpm | 2 x 30,000 rpm |
| Tool taper DIN 69893 | HSK-A 40 | HSK-A 40 |
| Max. torque | 11 Nm | 2 x 11 Nm |
| Spindle drive | 9 kW | 2 x 9 kW |
| Spindle ramp time up to max. speed approx. | 2.1 s | 2.1 s |

| Options | FZ 08 W MAGNUM | DZ 08 W MAGNUM |
|--------------------------------|-------------------|-------------------|
| High Speed Plus package | | |
| Increased speed range up to | 40,000 rpm | 2 x 40,000 rpm |
| Tool taper DIN 69893 | HSK-E 40 | HSK-E 40 |
| Max. torque | 9 Nm | 2 x 9 Nm |
| Spindle drive | 18 kW | 2 x 18 kW |

| More Options | FZ 08 W MAGNUM | DZ 08 W MAGNUM |
|--|---|---|
| Tool places | 40 / 2 x 40 | – |
| Coolant through the spindle up to | 150 bar up to 15,000 rpm 70 bar up to 40,000 rpm | 150 bar up to 15,000 rpm 70 bar up to 40,000 rpm |
| Chip conveyor | • | Standard |
| Coolant treatment | • | – |
| NC rotary table | • | • |
| NC rotary table with basic device | • | • |
| 2-axis NC rotary table for 5-axis machining | • | • |
| Workpiece gripper in main spindle | • | • |
| Tool life monitoring | • | • |
| Tool measurement and management | • | • |
| CHIRON Laser Control | • | • |
| Tool breakage monitoring | • | • |
| Stationary 3D probing system | • | • |
| Probe | • | • |
| Work area mist collection | • | • |
| Connection for central mist collection | • | • |
| Oil package | • | • |
| Machining with minimal lubrication | • | • |
| Pneumatic connection for clamping devices | • | • |
| Hydraulic unit and connection for clamping devices | • | • |
| Hydraulic and pneumatic connections via central rotating distributor | • | • |
| Automatic doors | • | • |
| Handwheel | • | • |
| Tool taper DIN 69893 | HSK-A 32 | – |
| Central lubrication | • | • |
| Electrical robot interface | • | • |
| Variocell UNO / SYSTEM | • | • |

Machining centers in MILL Turn version

| Technical Data | FZ 08 MT PRECISION+ |
|--|------------------------------|
| Drilling capacity in St 60 with inserted drill | Ø 12 mm |
| Thread cutting | M 8 |
| Milling capacity in St 60 | 30 cm ³ /min |
| Tool places | 24 |
| Tool taper DIN 698933 | HSK-A 40 |
| Max. tool diameter | 45 mm |
| Max. tool diameter if adjacent places are free | 100 mm |
| Max. tool length | 200 mm |
| Max. tool weight | 1.2 kg |
| Tool change time approx. | 0.8 s |
| Chip-to-chip time approx. | – |
| Chip-to-chip time from swivel head position 0° (vertical) | 2.1 s |
| Chip-to-chip time from swivel head position 90° (horizontal) | 2.5 s |
| Ininitely variable speed range | 30,000 rpm |
| Max. torque | 7 Nm |
| Spindle drive | 14.5 kW |
| Max. speed thread cutting | 8,000 rpm |
| Spindle bearing diameter -front | 45 mm |
| Tool clamping | 6,800 N |
| Travel X / Y / Z axis | 210 / 200 / 360 mm |
| Feed force X / Y / Z axis | 2,900 / 2,900 / 1,900 N |
| Rapid feed rate X / Y / Z axis | 75 / 75 / 75 m/min |
| Acceleration X / Y / Z axis | 9 / 13 / 18 m/s ² |
| Direct path measuring system in all axis | • |
| Swivel head | |
| Swiveling range of the spindle | - 10° / + 100° |
| Rapid feed rate B axis | 100 rpm |
| Acceleration time B axis | 20 1/s ² |
| Turning spindle with collet chuck holder | |
| Bar passage | 32 mm |
| Ininitely variable speed range up to | 8,000 rpm |
| Max. torque | 15 Nm |
| Cooling unit, tank capacity | 180 l |
| Total connected power approx. | 15 - 100 kVA |
| Machine weight approx. | 6 t |
| Floor space approx. | 3.1 m ² |
| Air connection | 6 bar |
| Central lubrication | • |

| Options | FZ 08 MT PRECISION+ |
|--|-------------------------|
| High Speed Plus package | |
| Increased speed range up to | 54,000 rpm |
| Tool taper DIN 69893 | HSK-E 32 |
| Max. torque | 2 Nm |
| Spindle drive | 5,2 kW |
| Turning spindle | |
| Bar passage | 42 mm |
| Ininitely variable speed range up to | 6,500 rpm |
| Max. torque | 15 Nm |
| Opposed spindle | |
| Driving speed up to | 6,000 rpm |
| Max. torque | 6 Nm |
| Locking pressure up to | 6 bar |
| More options | |
| Tool places | 96 |
| Coolant through the spindle up to | 70 bar up to 54.000 rpm |
| Chip conveyor | • |
| Coolant treatment | • |
| Tool life monitoring | • |
| Tool measurement and management | • |
| CHIRON Laser Control | • |
| Tool breakage monitoring | • |
| Stationary 3D probing system | • |
| Probe | • |
| Work area mist collection | • |
| Connection for central mist collection | • |
| Oil package | • |
| Automatic doors | • |
| Handwheel | • |
| Electrical interface for bar loader | • |
| Handling robot with workpiece storage | • |
| Electrical robot interface | • |
| Workpiece transport and magazining devices | • |
| Loading / unloading station | • |

Machining centers for the complete machining of profile bars

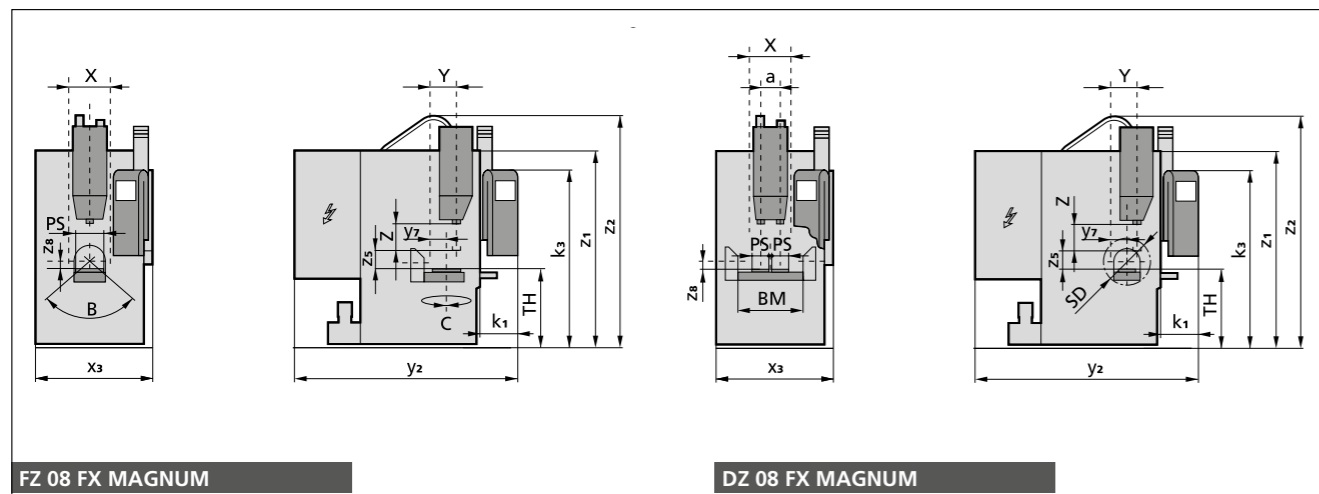
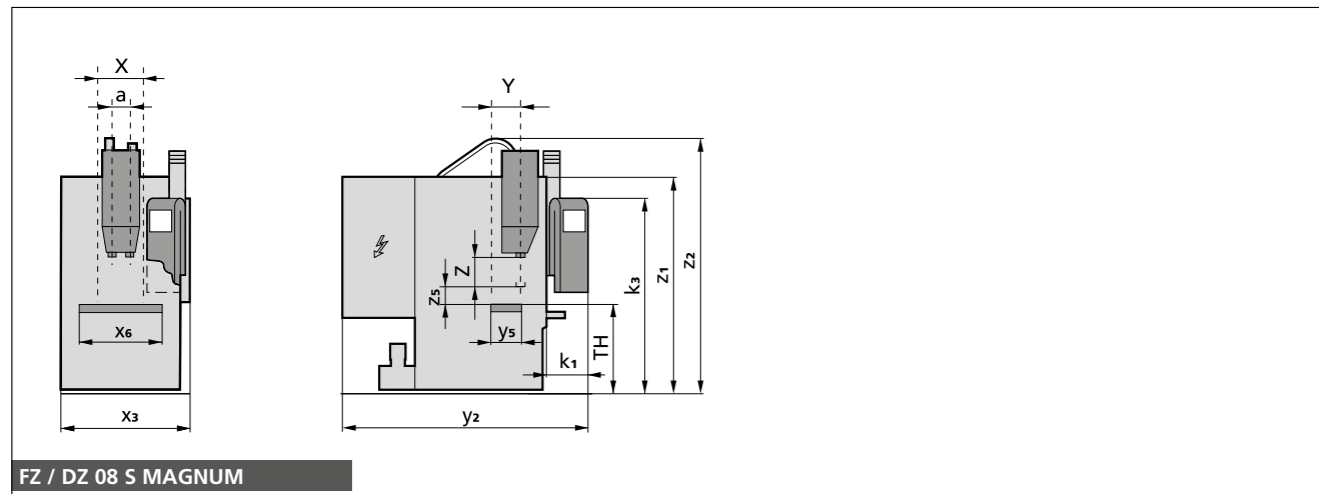
| Technical Data | FZ 08 MP MAGNUM |
|---|-------------------------------|
| Drilling capacity in St 60 with inserted drill | Ø 16 mm |
| Thread cutting | M 12 |
| Milling capacity in St 60 | 60 cm ³ /min |
| Tool places | 24 |
| Tool taper DIN 69893 | HSK-A 40 |
| Max. tool diameter | 47 mm |
| Max. tool diameter if adjacent places are free | 100 mm |
| Max. tool length | 200 mm |
| Max. tool weight | 1.2 kg |
| Tool change time approx. | 0.8 s |
| Chip-to-chip time approx. | 2.4 s |
| Infinitely variable speed range | 15,000 rpm |
| Max. torque | 23 Nm |
| Spindle drive | 7.4 kW |
| Max. speed thread cutting | 8,000 rpm |
| Spindle bearing diameter | 40 mm |
| Tool clamping | 6,500 N |
| Travel X / Y / Z axis | 450 / 270 / 310 mm |
| Feed force X / Y / Z axis | 2,000 / 2,000 / 3,000 N |
| Rapid feed rate X / Y / Z / V axis | 75 / 75 / 75 m/min |
| Acceleration X / Y / Z axis | 10 / 15 / 20 m/s ² |
| Direct path measuring system in all axis | • |
| Fixed table | |
| Linear feeding unit with two synchronous rotary tables for 4-sided all-around machining | • |
| Bar passage | 95 x 95 mm |
| Speed 4th Axis | 50 rpm |
| Cooling unit, tank capacity | 180 l |
| Total connected power approx. | 10 kVA |
| Machine weight approx. | 4.5 t |
| Floor space approx. | 3.5 m ² |
| Air connection | 6 bar |
| Central lubrication | • |

| Options | FZ 08 MP MAGNUM |
|--|---|
| High Speed Plus package | |
| Increased speed range up to | 30,000 rpm |
| Tool taper DIN 69893 | HSK-A 40 |
| Max. torque | 11 Nm |
| Spindle drive | 9 kW |
| Spindle ramp time up to max. speed approx. | 1.9 s |
| Rapid feed rate X / Y / Z / V axis | 75 / 75 / 75 / 40 m/min |
| Acceleration X / Y / Z axis | 10 / 15 / 20 m/s ² |
| High Speed Plus package | |
| Increased speed range up to | 40,000 rpm |
| Tool taper DIN 69893 | HSK-E 40 |
| Max. torque | 9 Nm |
| Spindle drive | 18 kW |
| More Options | |
| Tool places | 40 |
| Sawing unit | • |
| Coolant through the spindle up to | 150 bar up to 15,000 rpm 70 bar up to 40,000 rpm |
| Chip conveyor | • |
| Coolant treatment | • |
| Tool life monitoring | • |
| Tool measurement and management | • |
| CHIRON Laser Control | • |
| Tool breakage monitoring | • |
| Stationary 3D probing system | • |
| Probe | • |
| Work area mist collection | • |
| Connection for central mist collection | • |
| Oil package | • |
| Machining with minimal lubrication | • |
| Automatic doors | • |
| Handwheel | • |
| Electrical interface for bar loader | • |
| Electrical robot interface | • |
| Workpiece transport and magazing devices | • |

Dimensions

| 08 Series | FZ 08 S MAGNUM | FZ 08 S MAGNUM (swivel head) | DZ 08 S MAGNUM | FZ 08 FX MAGNUM | DZ 08 FX MAGNUM |
|---|-------------------|------------------------------------|-------------------|----------------------------|--------------------|
| a Spindle distance | - | - | 200 mm | - | 200 mm |
| B Swivelling range B axis | - | - | - | +/- 100° | +/- 120° |
| C Swivelling range C axis | - | - | - | +/- 360° | +/- 360° |
| k1 Control panel depth | 370 mm | 370 mm | 370 mm | 370 mm | 370 mm |
| k3 Control panel height | 1,900 mm | 1,900 mm | 1,900 mm | 1,900 mm | 1,900 mm |
| PS Face plate diameter | - | - | - | 245 mm | 195 mm |
| SD Max. interference area diameter | - | - | - | 560 mm | 560 mm |
| TH Height face plate / rotary table centre | 840 mm | 840 mm | 840 mm | 891 mm | 880 mm |
| X Travel X axis | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm |
| x3 Total width (with chip conveyor to the rear) | 1,260 / 1,410* mm | 1,260 / 1,410* mm | 1,580 mm | 1,260 / 1,410* mm | 1,580 mm |
| x6 Clamping surface - width | 740 mm | 740 mm | 740 mm | - | - |
| Y Travel Y axis | 270 mm | 270 mm | 270 mm | 270 mm | 270 mm |
| y2 Total depth (with chip conveyor to the rear) | 3,100 mm | 3,100 mm | 3,100 mm | 3,100 mm | 3,100 mm |
| y5 Clamping surface - depth | 300 mm | 300 mm | 300 mm | - | - |
| y7 Furthest distance Y Position - A Axis | - | - | - | 135 mm | 135 mm |
| Z Travel Z axis , spindle vertical | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm |
| z1 Cabin height | 2,070 mm | 2,070 mm | 2,070 mm | 2,070 mm | 2,070 mm |
| z2 Total height | 2,440 mm | 2,440 mm | 2,440 mm | 2,440 mm | 2,440 mm |
| z5 Deepest spindle position (vertical) - clamping face / faceplate | 170 mm | 170 mm | 170 mm | A/C 130 mm B/C 118,5 mm | 130 mm |
| z8 Clearance face plate - swivel axis | - | - | - | 80 mm | 80 mm |

*40 tools



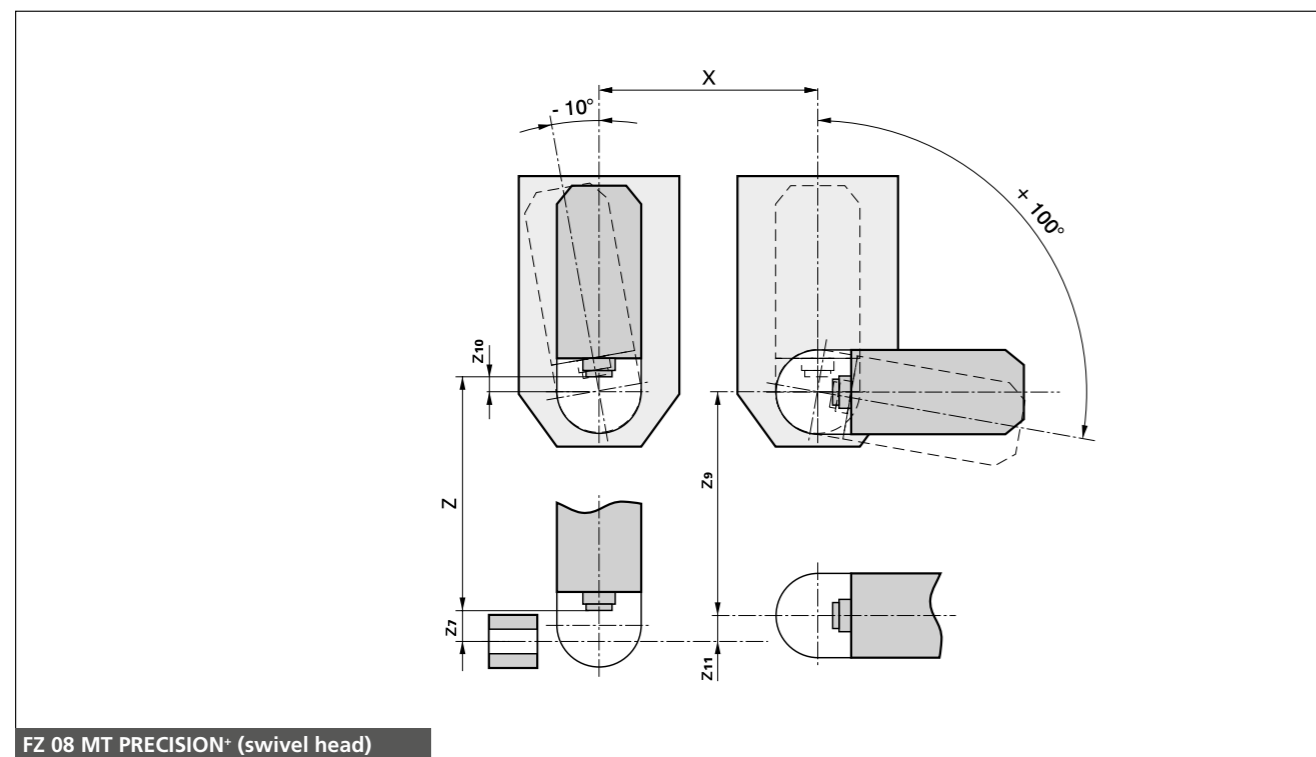
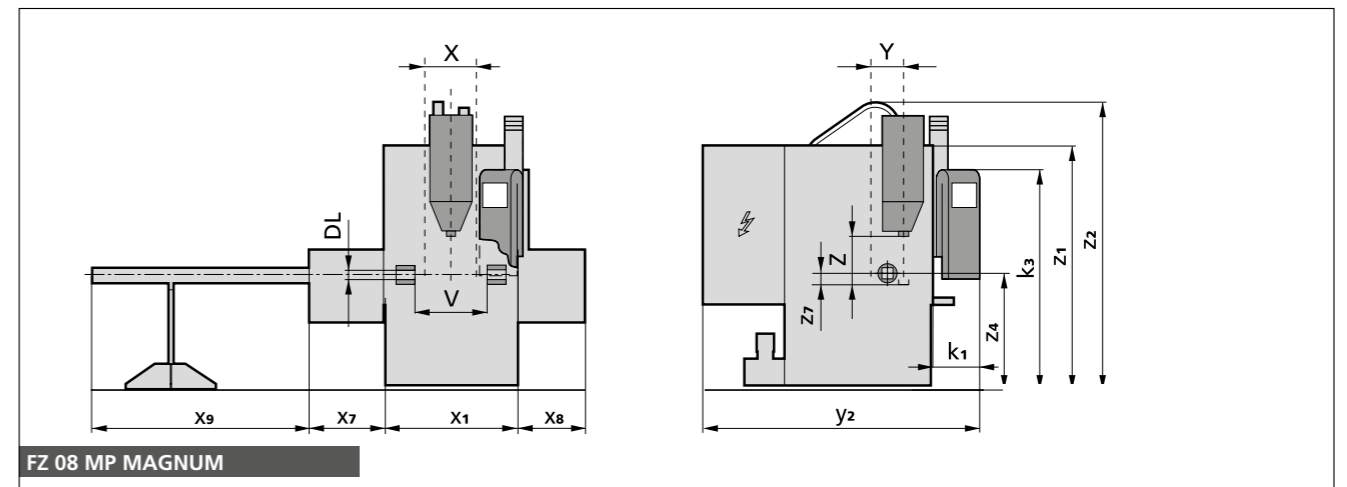
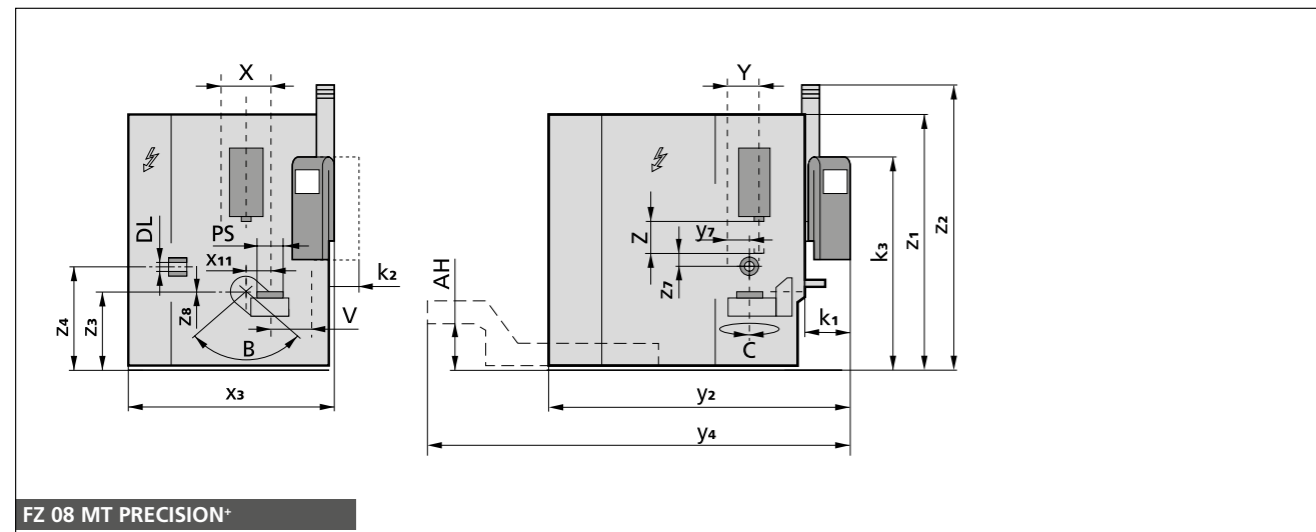
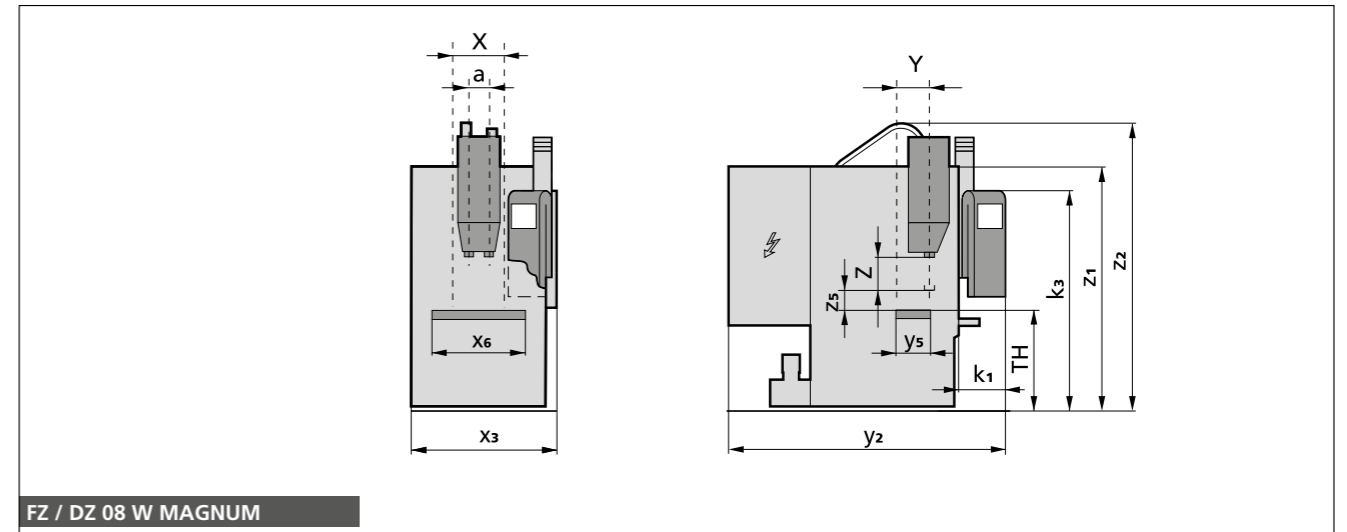
Dimensions

| 08 Series | FZ 08 W MAGNUM | DZ 08 W MAGNUM | FZ 08 MT PRECISION+ | FZ 08 MP MAGNUM |
|---|-------------------|-------------------|------------------------|--------------------|
| a Spindle distance | - | 200 mm | - | - |
| AH Ejection height chip conveyor min. | - | - | 490 mm | - |
| BT Swivelling range BT axis | - | - | -60°/+180° | - |
| C Swivelling range C axis | - | - | +/- 360° | - |
| DL Max. passage | - | - | 42 mm | 95 x 95 mm |
| k1 Control panel depth | 370 mm | 370 mm | 370 mm | 370 mm |
| k2 Control panel depth - swivelled | - | - | 360 mm | - |
| k3 Control panel height | 1,900 mm | 1,900 mm | 1,920 mm | 1,900 mm |
| PS Face plate diameter | - | - | 160 mm | - |
| TH Height face plate / rotary table centre | 840 mm | 840 mm | - | - |
| V Travel V axis | - | - | 440 mm | 600 mm |
| X Travel X axis | 450 mm | 450 mm | 210 mm | 450 mm |
| x1 Cabin width | - | - | 1,730 mm | 1,150 mm |
| x3 Total width (with chip conveyor to the rear) | 1,260 / 1,410 mm | 1,580* mm | 1,730 mm | 2,807 mm |
| x6 Width clamping surface | 660 mm | 660 mm | - | - |
| x7 NC bar feed width | - | - | - | 712 mm |
| x8 Width catch tray | - | - | - | 966 mm |
| x9 Loading station width | - | - | - | up to 6,000 mm |
| Y Travel Y axis | 270 mm | 270 mm | 200 mm | 270 mm |
| y2 Total depth (with chip conveyor to the rear) | 3,586 mm | 3,586 mm | 3,150 mm | 3,100 mm |
| y4 Total depth with chip conveyor pulled out | - | - | 4,450 mm | - |
| y5 Clamping surface - depth | 2 x 315 mm | 2 x 315 mm | - | - |
| y7 Furthest distance Y Position - A Axis | - | - | 120 mm | - |
| Z Travel Z axis , spindle vertical | 310 mm | 310 mm | 360 mm | 310 mm |
| z1 Cabin height | 2,070 mm | 2,070 mm | 2,240 mm | 2,070 mm |
| z2 Total height | 2,440 mm | 2,440 mm | 2,838 mm | 2,440 mm |
| z3 Height of swivel axis | - | - | 880 mm | - |
| z4 Height of workpiece center | - | - | 1,130 mm | 1,090 mm |
| z5 Deepest spindle position (vertical) - clamping face / faceplate | 170 mm | 170 mm | - | - |
| z7 Deepest spindle position (vertical) - workpiece center | - | - | 15 mm | -50,5 mm |
| z8 Clearance face plate - swivel axis | - | - | 0 mm | - |

*40 tools **with discharge area

■ Dimensions NC swivel head

| 08 series | FZ 08 MT PRECISION+ |
|---|---------------------|
| X Travel X axis | 210 mm |
| x11 Horizontal clearance spindle take-up - swivel axis | 125 mm |
| Y Travel Y axis | 200 mm |
| y7 Furthest distance Y Position - A Axis | 120 mm |
| Z Travel Z axis, spindle vertical | 360 mm |
| z5 Deepest spindle position (vertical) - clamping face / faceplate | - |
| z7 Deepest spindle position (vertical) - workpiece center | 10 mm |
| z9 Travel Z axis, spindle horizontal | 360 mm |
| z10 Clearance spindle take-up – swivel axis | 60 mm |
| z11 Deepest spindle position (horizontal) - workpiece centre | -45 mm |



08 Series – Options

| |
|--|
| High Speed Plus package |
| Technology package "Milling from bars" |
| Technology package "Turning from bars" |
| Tool places up to 80 tools |
| Sawing unit (with MP, Multi Profil System) |
| Coolant through the spindle |
| Coolant treatment |
| Chip conveyer |
| NC rotary table |
| NC rotary table with basic device |
| 2-axis NC rotary table for 5-axis machining |
| Tool life monitoring |
| Tool measurement and management |
| CHIRON Laser Control |
| Tool breakage monitoring |
| Connection for central mist collection |
| Probe |
| Oil package |
| Machining with minimal lubrication |
| Pneumatic connection for clamping devices |
| Hydraulic unit and connection for clamping devices |
| Automatic doors |
| Handwheel |
| Increased speed range up to 54,000 rpm |
| Tool taper HSK-E 32, HSK-A 40 |
| Central lubrication system |
| Robot interface |
| Electrical interface for bar loader (with MP, Multi Profil System) |
| Handling robot with workpiece storage Variocell UNO |

Basic series

08 Series

Fast, compact machining centers for high precision and various applications

12 Series

Fast, compact single, double-spindle and multi-functional precision machining centers

15 Series

Fast and powerful precision machining centers for profitable production – with one, two or four spindles

18 Series

Powerful, single and twin-spindle machining centers for high-speed machining and heavy cutting

24 Series

Powerful, single and double spindle machining centers for high-productive machining of large workpieces

MILL Series

Universal precision machining centers for high performance cutting - from small parts to large workpieces

Flexible production systems

Variocell UNO

Robot-automated 6-side complete machining

Variocell SYSTEM

Customized automation solutions

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