

Multi-Slide CNC Automatic Turning
MSL 42 / MSL 60

DMG

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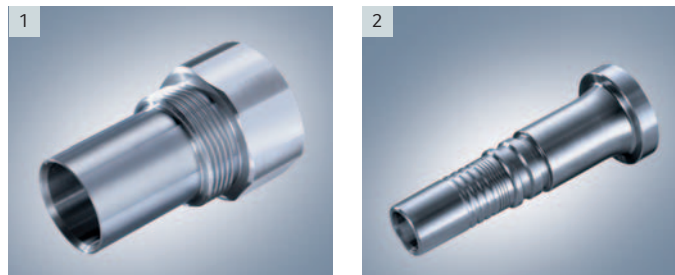
**Control bush made from brass,
hydraulics industry:**

The new, compact series from GILDEMEISTER Italiana for profitable complete machining of simple and complex workpieces for multiple application areas.

MSL series – Offers maximum performance with minor investment in bar machining up to 60 mm.

In the sector of Single-Spindle Automatic Lathes, the MSL series offers productivity in bar machining of 5 to 60 mm with minor investment costs. The compact machine design is available in two designs for diverse requirements.

The machines of the MSL series represent the ideal alternative to cam-controlled lathes and are ideally suited for small lot sizes and for the efficient serial production of simple to complex work pieces for applications in the automotive, pneumatics or hydraulics industries.



|1| Bush, hydraulics industry |2| Connector part, hydraulics industry
|3| Adapter piece, fluids |4| Distributor, hydraulics industry |5| Valve housing, automotive industry |6| Nipple fitting, hydraulics industry

MSL series – Five machines, one goal – Profitable serial production.

State-of-the-art CNC control technology ensures the simple and fast setup of the MSL series. The series is available in numerous configurations to offer maximum efficiency for the turning of bars from 5 to 60 mm.

The basic versions of the MSL series, (MSL 42|6 / MSL 60|6) stand out with their compact work-area design. Six NC controlled axes allow machining with four tools in simultaneous operation.

The MSL 42|7 and the MSL 60|7 each have seven axes. Three NC compound slides and a turret with an integrated pick-up device open up a wide range of machining applications. Optionally, an NC slide can also be equipped with a 4x-tool changer.

NEW // With the MSL 42|7 C, a chucking machine is now available for work pieces with diameters up to 85 mm. In addition, all 7-axis versions are available with the Siemens 840D powerline.

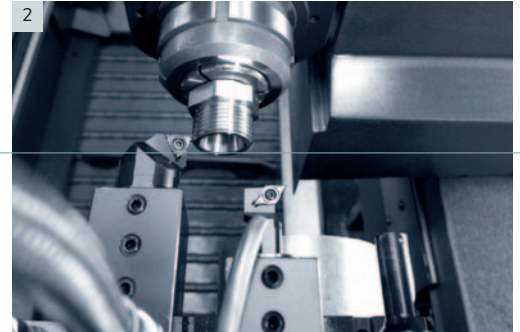
**MSL series:**

Highlights of the new MSL series include reduced investment costs, small space requirements and multiple machining possibilities due to innovative, technological options and a custom-made machine design.



- |1| Simultaneous machining with up to four tools is possible
- |2| Collet chuck (MSL 42|7 / MSL 60|7 / MSL 42|7 C)
- |3| Intelligent control technology for easy programming
- |4| 4x tool changer for slides 3 (optional)





MSL 42 | 6 / 60 | 6 Highlights

- _ **Six NC axes with up to four tools in simultaneous operation**
- _ Simple and fast installation of the machine due to the most current CNC technology
- _ Two cross-slides
- _ Three fixed tools for frontal machining
- _ Tool discharge in the standard version
- _ **4x tool turret** for slide 3 (optional)

|1| Work area design, up to four tools in simultaneous operation

|2| Cross-slide with three tools for frontal machining

|3| 4x tool turret (optional)

MSL 42 | 6:

The MSL series offers the highest level of profitability for bar machining up to 60 mm. Maximum productivity due to automation with the DMG Loader.

MSL 42|6 / 60|6: The compact range for your production.

The MSL 42|6 and MSL 60|6 were designed for a broad application range and are outstanding due to their reduced investment costs. Like the entire series, they will impress you with their compact design and the resulting reduced space requirements. With six NC-controlled axes and three tools for frontal machining, diverse batch sizes can be produced efficiently.

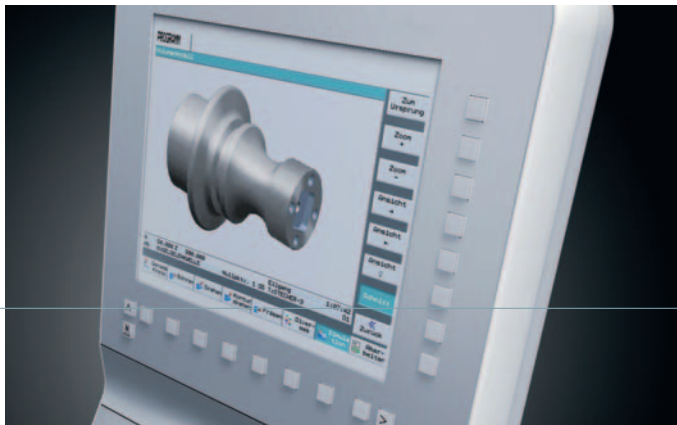
The extensive standard package supports automation with a bar loader (optional), laying the foundation for even greater flexibility and efficiency in your production.



MSL 4217 / 4217 C / 6017: Maximum flexibility combined with the shortest possible production times.

The MSL 4217 and MSL 6017 offer even greater flexibility for bar machining. The standard machines, equipped with 7 axes, a 6-position turret with one driven and four fixed tools, as well as a pickup spindle with three tools for rear-sided machining. With up to 14 tools, even complex work pieces can easily be machined.

With the MSL 4217 C, a chucking machine is now available for work pieces with diameters up to 85 mm. The hydraulic tool clamping system on the main spindle and the fast loading and unloading system for unfinished and finished work pieces ensure shortest possible job times. All machines of the MSL series are equipped with state-of-the-art control technology, so that your retooling times are reduced to a minimum and your processes are programmed for maximum success.



Siemens 840D

- _ DMG ControlPanel with 15"-screen
- _ Ethernet-connection
- _ Integrated safety technology

Your benefits

- _ Tool wear monitoring software (optional)
- _ Sister tool monitoring software (optional)
- _ Tool inventory management (optional)

Fanuc 31i

- _ DMG ControlPanel with 10,4"-screen
- _ Ethernet-connection
- _ Dual check safety

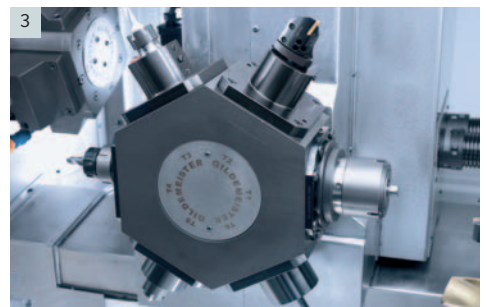
Your benefits

- _ Tool wear monitoring software (optional)
- _ Sister tool monitoring software (optional)
- _ Background programming (optional)



Highlights MSL 4217 / 4217 C / 6017

- _ **Seven axes, up to four tools in operation simultaneously**
- _ Three NC compound slides
- _ **6x-tool turret with Direct Drive technology** for maximum precision with an integrated pickup spindle, a rotating tool fitting, and four fixed tools
- _ Three tools for rear-sided machining
- _ Capacity for up to 14 tools
- _ **4x-tool turret for slide 3** (optional)
- _ NC tool adjustment for compound slides 2–3 and turret
- _ MSL 4217 C: Hydraulic work piece clamping for the main spindle
- _ MSL 4217 C: Integrated, fast loading system for unfinished work pieces (optional), unloading system for finished work pieces



11| Work area design of the MSL 4217

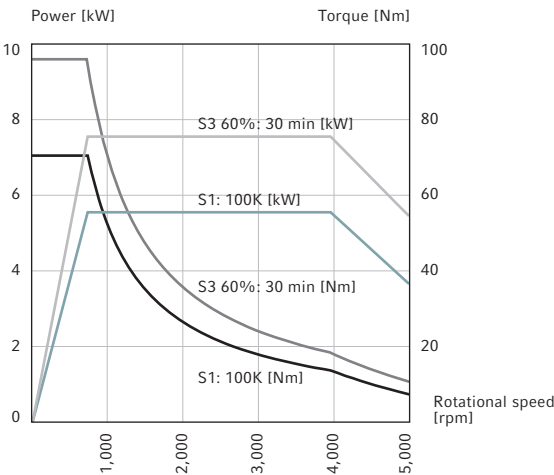
12| Gripper spindle and three fixed tools for rear-sided machining

13| Station turret

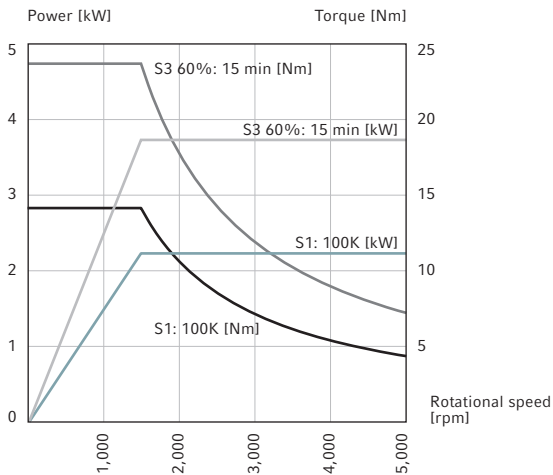
Performance Diagrams

MSL 42 / MSL 60

Main spindle



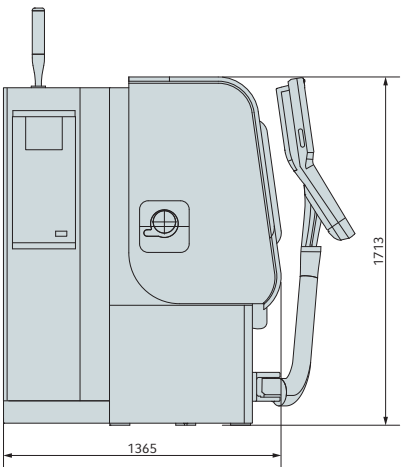
Counter spindle



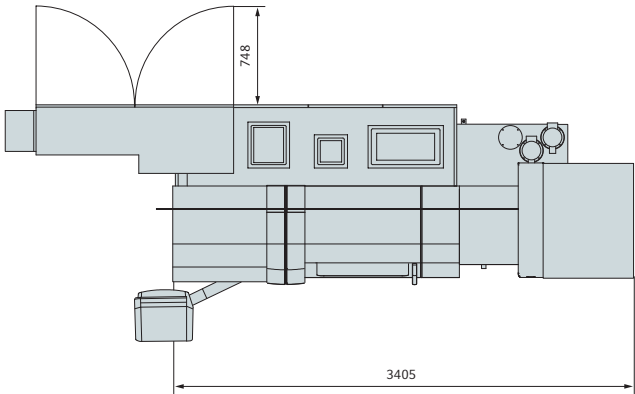
Floor Plans

MSL 42 / MSL 60

Front view



Top view



Technical Data

		MSL 42 6	MSL 42 7	MSL 42 7 C	MSL 60 6	MSL 60 7
Axes		6	7	7	6	7
Main spindle						
Max. bar diameter	mm	42	42	42	60	60
Max rotational diameter	mm	–	–	(110*)	–	–
Max. rotational speed	rpm	5,000	5,000	5,000	5,000	5,000
Performance (S3 60%: 30 min / S1))	kW	7.5 / 5.5	7.5 / 5.5	7.5 / 5.5	7.5 / 5.5	7.5 / 5.5
Counter spindle						
Max. rotation diameter	mm	–	42	42 (60*)	–	42 (60*)
Max. rotational speed	rpm	–	5,000	5,000	–	5,000
Performance (S3 60%: 30 min / S1)	kW	–	3.7 / 2.2	3.7 / 2.2	–	3.7 / 2.2
Axes						
Max. rapid speed of the axes (Z4)	m/min	15 (30*)	15 (30*)	15 (30*)	15 (30*)	15 (30*)
Max. acceleration	m/s ²	5	5	5	5	5
Path X1 / X2 / X3	mm	60	60	60	60	60
Path X4	mm	130	130	130	130	130
Path Z2	mm	–	80	80	–	80
Path Z3	mm	80	80	80	80	80
Path Z4	mm	340	340	340	340	340
Nominal feed power X1 / X2 / X3 / X4 / Z2 / Z3 / Z4	N	4,400	4,400	4,400	4,400	4,400
Tool holder slide 1						
Fixed tools		1	1	1	1	1
Tool holder slide 2						
Fixed tools		1	1	1	1	1
Driven tools		1*	1*	1*	1*	1*
Tool holder slide 3						
Fixed tools		1 (4*)	1 (4*)	1 (4*)	1 (4*)	1 (4*)
Tool holder slide 4						
Fixed tools		3	4	4	3	4
Driven tools		–	1	1	–	1
Tool fitting for rear-sided machining						
Fixed tools		–	3	3	–	3
Driven tools		–	1	1	–	1
Weights	kg	3,500	3,500	3,500	3,500	3,500
Controls						
ControlPanel with 10,4"-LCD colour screen						
Fanuc 31i		•	•	•	•	•
DMG SLIMline® Panel with 15"-screen						
Siemens 840D		–	•	•	–	•

* option

DMG exclusively recommends



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