

emcogroup

Designed for your profit



Movement is life

[EMCO medical technology]

EMCO machines and medical technology – the perfect interaction of efficiency and precision.

In a world of rising life expectancy, increasing demands on physical mobility well into advanced ages and a wide range of sporting and leisure activities, medical technology is becoming ever-more important.

CNC machines now play an important role in the various production processes for medical applications, with a focus on high levels of productivity, flexibility and precision.

High-strength and non-metallic materials, which are being increasingly used in the human body due to the high acceptance level, must undergo complex processing. During production, very specific requirements therefore apply to tool selection and machine concept.

For the many areas of application of medical technology, such as components for high-tech prostheses, wheelchairs, medical apparatus and instruments, EMCO's machine concepts can deliver tailor-made solutions that meet the requirements during component production.



Dental implant (titanium)
[EMCO MAXXTURN 25]



Dental contra-angle handpiece (brass)
[EMCOTURN 332]



Implant screw (titanium)
[EMCOTURN E25]



Implant screw (titanium)
[EMCO MAXXTURN 25]



Dental forceps (INOX)
[EMCO FAMUP MCP 70-50]



Handpiece for surgery (INOX)
[EMCO MAXXTURN 25]



Hip joint inlay (polyethylene)
[EMCOTURN E45]



Clamping sleeve/high-tech prosthesis (aluminum)
[EMCO HYPERTURN 665]



Hip joint screw-in cup (titanium)
[EMCO HYPERTURN 665 PowerMill]



Bone screw screw (titanium)
[EMCO HYPERTURN 645 PowerMill]



Knee implant (cobalt/chrome)
[EMCO LINEARMILL 600 HD]

[EMCO MAXXTURN 25]

[Highlights]

- Small, compact universal turning machine
- Large speed range
- Counter spindle for complete machining
- Y axis for complex milling operations
- 6 driven tool stations

[Key data]

Maximum bar-stock diameter	ø 25 mm (1.0")
Maximum drive power	6.5 kW (8.7 hp)
Maximum speed	8000 rpm



[EMCO HYPERTURN 645 PowerMill]

[Highlights]

- Multi-tasking turn-mill center
- Simultaneous processing with 2 tool systems
- Y axis for complex milling operations
- B axis for inclined milling operations
- 24(48)-tool magazine

[Key data]

Maximum bar-stock diameter	ø 45 mm (1.7")
Maximum drive power	22 kW (29.5 hp)
Maximum speed	7000 rpm



[EMCO LINEARMILL 600 HD]

[Highlights]

- Highly dynamic milling center
- 5-axes simultaneous milling function
- Linear motors in the linear axes
- Torque motors in the rotation axes
- Water-cooled motor milling spindle

[Key data]

Maximum speed	15000 rpm
Maximum drive power	35 kW (46.9 hp)
Maximum rapid motion speed	60 m/min (2362 ipm)



[EMCO HYPERTURN 665]

[Highlights]

- High-performance turn-mill center
- Simultaneous processing with 2 tool systems
- 2 x 12 driven tool stations
- Y axis for complex milling operations
- B axis for working at an angle

[Key data]

Maximum bar-stock diameter	ø 65 (76) mm (2.5" (2.9"))
Maximum drive power	29 kW (38.9 hp)
Maximum speed	5000 (4000) rpm





Dental implant (titanium)



Implant screw (titanium)



Handpiece for surgery (INOX)



Bone screw (titanium)

E[M]CONOMY in perfection

Together, we develop the precise machine configuration you need, thereby providing you with a tailor-made turnkey solution that precisely meets your requirements. And all this while maintaining a strong focus on precision and efficiency.



Knee implant (cobalt/chrome)



Clamping sleeve/high-tech prosthesis (aluminum)





Dental contra-angle handpiece (brass)



Turbine (brass)

[EMCO HYPERTURN 45]



Implant screw (titanium)



Hip joint inlay (polyethylene)

[EMCOTURN E25]



Dental forceps (INOX)

[EMCO FAMUP MCP 70-50]



Hip joint screw-in cup (titanium)



Hip endoprosthesis (CoCr, PE, ceramic)

[EMCO HYPERTURN 665 PowerMill]



[EMCO HYPERTURN 45]

[Highlights]

- High-performance universal turning center
- Compact machine design
- Two high-performance work-spindles
- Two high flexible, 12 station tool turrets
- Stable Y axis with 70 mm travel

[Key data]

Max. bar capacity	ø 45 (51) mm (1.8" (2.0"))
Maximum drive power	15 kW (20.1 hp)
Maximum speed	7000 rpm



[EMCOTURN E25]

[Highlights]

- Small, compact turning machine
- Large speed range
- Tailstock to support long workpieces
- 6 driven tool stations
- C axis with 3° spindle indexing

[Key data]

Maximum bar-stock diameter	ø 25 mm (1.0")
Maximum drive power	5.5 kW (7.4 hp)
Maximum speed	6300 rpm



[EMCO FAMUP MCP 70-50]

[Highlights]

- Compact milling center with a pallet changer
- Simple integration of clamping devices
- Large speed range
- Water-cooled motor milling spindle
- Short chip-to-chip time

[Key data]

Maximum speed	12000 (15000) rpm
Maximum drive power	35 kW (46.9 hp)
Maximum rapid motion speed	40 m/min (1574 ipm)



[EMCO HYPERTURN 665 PowerMill]

[Highlights]

- Multi-tasking turn-mill center
- Simultaneous processing with 2 tool systems
- Y axis for complex milling operations
- B axis for working at an angle
- 24(48)-tool magazine

[Key data]

Maximum bar-stock diameter	ø 65 (76) mm (2.5" (2.9"))
Maximum drive power	29 kW (38.9 hp)
Maximum speed	5000 (4000) rpm

The logo for EMCO group, featuring the word "emco" in a bold, lowercase, sans-serif font with a red outline, followed by the word "group" in a smaller, solid black, lowercase, sans-serif font. The logo is positioned on a white rectangular background that is part of a larger red rectangular area at the top right of the page.

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EN4572 - 12/10 - Subject to change due technical progress. Errors and omissions excepted.

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