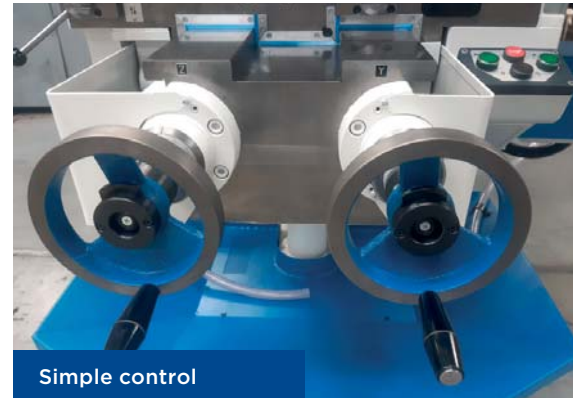


CHARACTERISTICS ADVANTAGES



Massive iron cast parts

- + **High rigidity** of the machine thanks to the massive cast iron construction



Simple control

- + Emphasis on ergonomics and compact design enables **comfortable** and **simple operation** of the machine



Hardened guide surfaces

- + **Wear resistance** ensured by hardening the guide surfaces



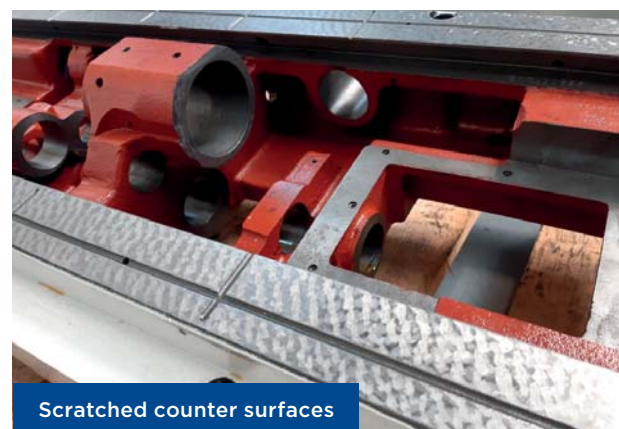
Central lubrication

- + Central oil lubrication guarantees **reliable dosing of lubricant** to all lubrication points



Hardened and ground gear wheels

- + **Lower noise and vibration** due to ground gears



Scratched counter surfaces

- + Careful control during production and assembly ensures the resulting **geometric accuracy** of the machine

- + **High torque on the spindle** to achieve optimal cutting conditions during machining
- + The technological possibilities of the machine are expanded by a **wide range of accessories**
- + **Easy maintenance and cleaning** of the machine thanks to surface treatment with oil-resistant varnishes

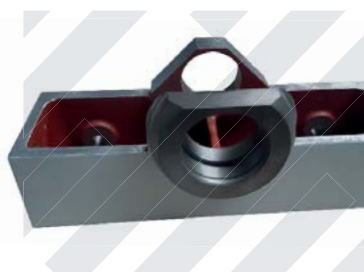
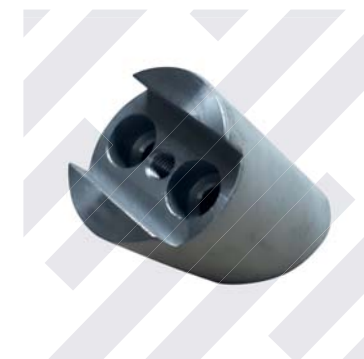
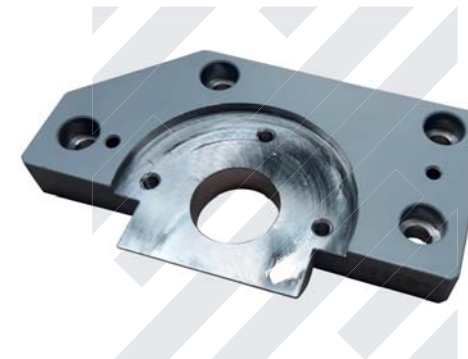
PRODUCT EXAMPLES



Versatility and **precision** are key factors in the successful use of these machines in a variety of industries to produce different types of products.

Knee-Type and **Tool-room milling machines** are available in various designs.

Manual milling machines are suitable for small batch production and teaching, while **CNC milling machines** allow automated operations and greater flexibility in creating complex and precise geometric shapes.



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MANUFACTURER OF KNEE-TYPE
AND TOOL-ROOM MILLING MACHINE



PROGRAM OF PRODUCTION

TRADITION / QUALITY / REALIBILITY

SINCE 1922

TOS Olomouc, s.r.o.

More to products



MILLING MACHINES WITH CNC CONTROL SYSTEM

FNG50CNC A

CNC TOOL-ROOM MILLING MACHINE

Main advantages

+ continuous simultaneous control in three axes

+ continuously adjustable spindle speed

+ rotation of the spindle head in the range of ± 90°

+ automatic tool change (option)

+ cabin cover (option)

+ the possibility of connecting the fourth / fifth CNC-controlled axis (option)

Basic technical parameters

Table	900 x 500 mm
Range X	700 mm
Range Y	500 mm
Range Z	500 mm
Spindle	ISO 40
Revolutions	50 – 4 000
Motor power	5,5 kW
Weight	2 750 kg
Maximal table load	350 kg



Tool changer – magazin

Central lubrication

HEAVY – DUTY MILLING MACHINES

FGV32

VERTICAL KNEE-TYPE MILLING MACHINE

Main advantages

+ High torque on the spindle

+ High sliding force

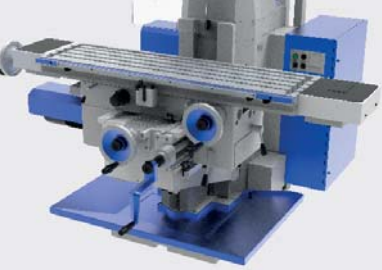
+ Stepless adjustable feeds in all 3 axes

+ Vertical spindle in shifting quill

+ Milling head swivelling ± 45°

Basic technical parameters

Table	1 400 x 360 mm
Range X	1 000 mm
Range Y	300 mm
Range Z	420 mm
Quill shift out	75 mm
Vertical spindle	ISO 50
Revolutions	31,5 – 1 400
Motor power	5,5 kW
Weight	2 100 kg
Maximal table load	250 kg



Handwheels

Vertical head

MACHINES FOR PRECISION MILLING

F2VR

KNEE-TYPE MILLING MACHINE

Main advantages

+ Continuous set-up feeds in 3 axes

+ Stepless regulation of spindle revolutions

+ Vertical spindle in shifting quill

+ Machine shift-out quill for comfortable drilling

+ Large working stroke of the quill

+ Milling head swivelling ± 90°

Basic technical parameters

Table	1 300 x 300 mm
Range X	840 mm
Range Y	376 mm
Range Z	420 mm
Quill shift out	125 mm
Vertical spindle	ISO 40
Revolutions	60 – 4 000
Motor power	3 kW
Weight	1 550 kg
Maximal table load	200 kg



Horizontal milling head IFH2

Slotting head HOB2

Central lubrication

FGS50CNC A

CNC UNIVERSAL TOOL-ROOM MILLING MACHINE

Main advantages

+ continuous simultaneous control in three axes

+ continuously adjustable spindle speed

+ rotation of the spindle head in the range of ± 90°

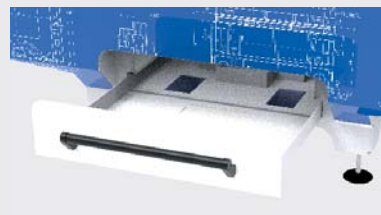
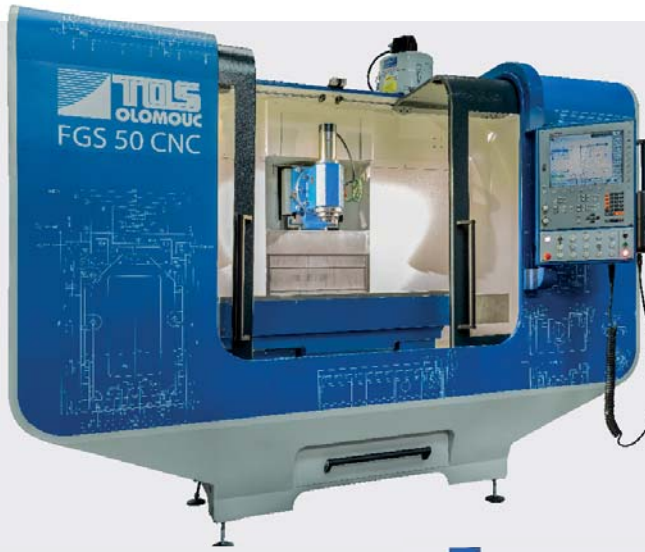
+ automatic tool change (option)

+ cabin cover (option)

+ the possibility of connecting a fourth CNC-controlled axis (option)

Basic technical parameters

Table	1 400 x 360 mm
Range X	1 000 mm
Range Y	500 mm
Range Z	500 mm
Spindle	ISO 40
Revolutions	50 – 4 000
Motor power	5,5 kW
Weight	2 750 kg
Maximal table load	350 kg



Complete cover for chip collection

Control panel

FGU32

UNIVERSAL KNEE-TYPE MILLING MACHINE

Main advantages

+ High torque on the spindle

+ High sliding force

+ Stepless feeds in all 3 axes

+ Cross table swivelling ± 45°

Basic technical parameters

Table	1 400 x 360 mm
Range X	1 000 mm
Range Y	275 mm
Range Z	420 mm
Horizontal spindle	ISO 50
Revolutions	31,5 – 1 400
Motor power	5,5 kW
Weight	1 980 kg
Maximal table load	250 kg



Univerzal milling head IFU20

All-angle milling head IFP32

Vertical milling head IFV20

Slotting head IOF20

FNGJ50 A

TOOL-ROOM MILLING MACHINE

Main advantages

+ Continuous set-up feeds in 3 axes

+ Stepless regulation of spindle revolutions

+ Vertical spindle in shifting quill

+ Horizontal spindle

+ Milling head swivelling ± 90°

Basic technical parameters

Table	900 x 500 mm
Range X	700 mm
Range Y	500 mm
Range Z	500 mm
Quill shift out	80 mm
Spindle	ISO 40
Revolutions	50 – 4 000
Motor power	4 kW
Weight	2 500 kg
Maximal table load	350 kg



Overarm with bearing LFH32N

Slotting head IOB32N

Swivelling and tilting table TU32N