

KUNZMANN®

FRÄSMASCHINEN

Product Range

Universal Milling Machines

Machining Centers



ABOUT KUNZMANN



Since 1907, KUNZMANN ranks among the world's leading manufacturers of universal milling machines and machining centers. In 2015, KUNZMANN became part of the Eisler Corporate Group – owner of WEILER Werkzeugmaschinen GmbH. Today, KUNZMANN and WEILER are your expert team for milling and lathing.

KUNZMANN machines stand for perfect precision, high performance, easy handling, and long-life operation.

KUNZMANN machines are used in a wide range of applications, such as tool making, machine engineering, R&D, and professional training.

EDUCATION4.0 is a unique KUNZMANN / WEILER concept that adds digital and virtual training contents to your machines.

In addition to our machines, KUNZMANN offers a wide range of customer services. This includes programming trainings, a fast and convenient after-sales support, sparepart delivery, and free service and application hotlines.

WF 410 D



Working range

X axis	mm	410
Y axis	mm	350
Z axis	mm	450

Guideway system Flat guideways

Main drive	kW at 100% of duty cycle	7.5
	kW at 25% of duty cycle	13

Spindle speed rpm 4,500

Tool taper SK 40 / HSK63

Feed X / Y / Z m/min 5 / 5 / 5

3-Axis digital readout HEIDENHAIN

Weight kg $\geq 1,950$

WF 610 D



Working range

X axis	mm	610
Y axis	mm	400
Z axis	mm	450

Guideway system Flat guideways

Main drive	kW at 100% of duty cycle	7.5
	kW at 25% of duty cycle	13

Spindle speed rpm 4,500

Tool taper SK 40 / HSK63

Feed X / Y / Z m/min 5 / 5 / 5

3-Axis digital readout HEIDENHAIN

Weight kg $\geq 2,000$

WF 410 M



Working range

X axis	mm	410
Y axis	mm	350
Z axis	mm	450

Guideway system Flat guideways

Main drive	kW at 100% of duty cycle	7,5
	kW at 25% of duty cycle	13

Spindle speed rpm 4.500

Tool taper SK 40 / HSK63

Feed X / Y / Z m/min 5 / 5 / 5

Positioning control HEIDENHAIN TNC7 go

Weight kg $\geq 1,950$

WF 610 M



Working range

X axis	mm	610
Y axis	mm	400
Z axis	mm	450

Guideway system Flat guideways

Main drive	kW at 100% of duty cycle	7,5
	kW at 25% of duty cycle	13

Spindle speed rpm 4.500

Tool taper SK 40 / HSK63

Feed X / Y / Z m/min 5 / 5 / 5

Positioning control HEIDENHAIN TNC7 go

Weight kg $\geq 2,000$

WF 410 MC+



Working range

X axis	mm	410
Y axis	mm	350
Z axis	mm	450

Guideway system Linear guideways

Main drive kW at 100% of duty cycle 5,5 / 8
(Milling head / motor spindle) kW at 25% of duty cycle 10,5 / 12

Spindle speed rpm 5.000 / 12.000

Tool taper SK 40 / HSK63-A*

Feed X / Y / Z m/min 10

Positioning control SIEMENS ONE
HEIDENHAIN TNC7 basic

Weight kg ≥ 2,350

WF 610 MC+



Working range

X axis	mm	610
Y axis	mm	400
Z axis	mm	450

Guideway system Linear guideways

Main drive kW at 100% of duty cycle 5,5 / 8
(Milling head / motor spindle) kW at 25% of duty cycle 10,5 / 12

Spindle speed rpm 5.000 / 12.000

Tool taper SK 40 / HSK63-A*

Feed X / Y / Z m/min 10

Positioning control SIEMENS ONE
HEIDENHAIN TNC7 basic

Weight kg ≥ 2,450

EDUCATION4.0

THE WHOLE WORLD OF DIGITAL LEARNING

WF 410 / 610 MC+ EDUCATION4.0

EDUCATION4.0

Interactive education
on a new level



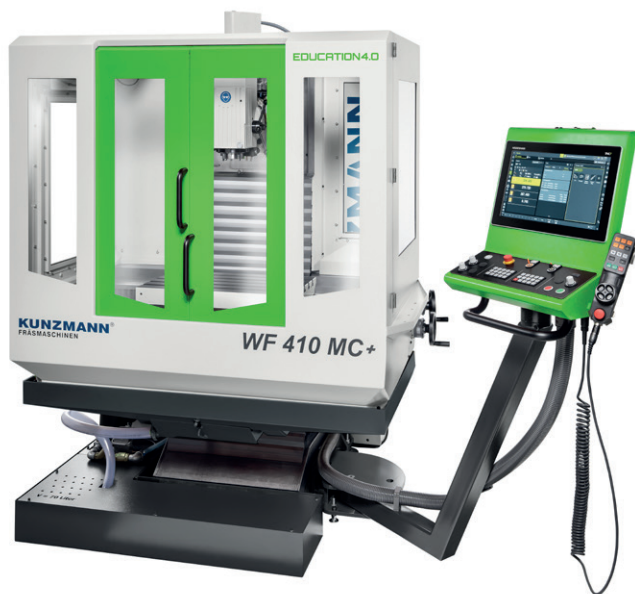
Digital training machines

for up-to-date training in the context of Industry 4.0



Individual learning

Virtual contents for classrooms and "to go", based on data of the digital machine twin



EDUCATION4.0 is a **didactic training concept** especially designed for instruction and training in the field of metal cutting.

Do you have questions concerning public funding of machines and training contents? Please contact us – we are always happy to help.



ALSO CAN BE
RETROFITTED
TO YOUR
EXISTING
MACHINE!

What's behind EDUCATION4.0?

Digital interactive learning contents:

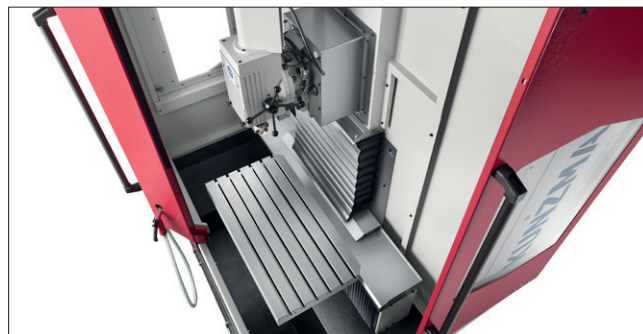
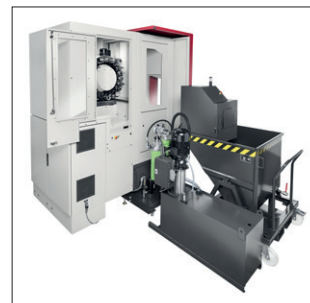
- Milling machine / lathe basics
- Professional operation of milling machines / lathes
- Training material for industrial mechanics
- Training material for mechatronics engineers
- Hybrid Learning Package - Interaction between real machine and virtual twin
- Gamification

AUTOMATION

Our new automation solution combines machining technology and collaborative robotics by the KUNZMANN milling machine with a collaborative robot (Cobot). Human and cobot share both tasks and work areas. A 2D camera enables the compensation of robot movements through position scanning, which makes the relocation of the cobot between different machines possible.



WF 610 CNC



Working range

X axis	mm	610
Y axis	mm	400
Z axis	mm	450

Guideway system

Linear guideways

Main drive

(Milling head / motor spindle)	kW at 100% of duty cycle	5,5 / 8
	kW at 25% of duty cycle	10,5 / 12

Spindle speed

rpm 5,000 / 12,000

Tool taper

SK 40 / HSK 63-A*

Feed X / Y / Z

m/min 30 / 30 / 15

Contouring control

HEIDENHAIN TNC7 basic/TNC7/
SIEMENS ONE

Weight

kg ≥2,550

Options

- ▶ 20-pocket tool changer
- ▶ Motor spindle: 12,000 rpm
- ▶ Slat-band chip conveyor
- ▶ Internal cooling through spindle – 25 bar
- ▶ Internal / external air cooling
- ▶ Suction unit
- ▶ Touch probe systems
- ▶ Linear encoder
- ▶ CNC dividing heads – 4th axis
- ▶ Universal tilting-swiveling table
- ▶ Automatic sliding door of the cabin

*only for milling head

BA 1100 H



Working range

X axis	mm	1100
Y axis	mm	750
Z axis	mm	900

Main drive

(for belt-driven spindle 10,000 rpm max.)	kW at 100% of duty cycle	12
	kW at 25% of duty cycle	23

Spindle speed	rpm	8,000 / 10,000 / 14,000 / 18,000
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Tool taper	SK 40 / HSK 63-A	
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Feed X / Y / Z	m/min	30 / 30 / 45
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Tool changer	pockets	38 / 60
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Contouring control	HEIDENHAIN TNC7	
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Weight	kg	≥8,900
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BA 1300 H



Machining center with optional paper band filter unit

Working range

X axis	mm	1300
Y axis	mm	750
Z axis	mm	900

Main drive

(for belt-driven spindle 10,000 rpm max.)	kW at 100% of duty cycle	13,5
	kW at 25% of duty cycle	25,5

Spindle speed	rpm	8,000 / 10,000 / 14,000 / 18,000
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Tool taper	SK 40 / HSK 63-A	
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Feed X / Y / Z	m/min	30 / 30 / 45
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Tool changer	pockets	38 / 60
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Contouring control	HEIDENHAIN TNC7	
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Weight	kg	≥9,500
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BA 1500 H



Working range

X axis	mm	1500
Y axis	mm	750
Z axis	mm	900

Main drive

(for In-Line spindle 14,000 / 18,000 rpm)	kW at 100% of duty cycle	13.5
	kW at 25% of duty cycle	25.5

Spindle speed	rpm	8,000 / 10,000 / 14,000 / 18,000
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Tool taper	SK 40 / HSK 63-A	
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Feed X / Y / Z	m/min	30 / 30 / 45
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Tool changer	pockets	38 / 60
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Contouring control	HEIDENHAIN TNC7	
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Weight	kg	≥9.500
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BA 1100 H



XYZ 1100 x 750 x 900 mm
BS 8,000 / 10,000, ILS 14,000 / 18,000 rpm
TNC7 basic / TNC7

BA 1300 H



XYZ 1300 x 750 x 900 mm
BS 8,000 / 10,000, ILS 14,000 / 18,000 rpm
TNC7 basic / TNC7

BA 1500 H



XYZ 1500 x 750 x 900 mm
BS 8,000 / 10,000, ILS 14,000 / 18,000 rpm
TNC7 basic / TNC7

Universal milling and drilling machines

Digital readout

WF 410 D



XYZ 410 x 350 x 450 mm
Vertical / horizontal spindle
4,500 rpm
3-Axis digital readout

Manually operated

WF 410 M



XYZ 410 x 350 x 450 mm
Vertical / horizontal spindle
4,500 rpm
Positioning control TNC7 go

Universal milling and drilling machines

Manually and CNC-operated

WF 410 MC+



XYZ 410 X 350 X 450 mm
Milling head 5,000 rpm
Motor spindle 12,000 rpm
TNC7 basic / SIEMENS ONE

CNC-operated

WF 610 CNC



XYZ 610 x 400 x 450 mm
Milling head 5,000 rpm
Motor spindle 12,000 rpm
TNC7 / TNC7 basic /
SIEMENS ONE

WF 610 D



XYZ 610 x 400 x 450 mm
Vertical / horizontal spindle
4,500 rpm
3-Axis digital readout

WF 610 M



XYZ 610 x 400 x 450 mm
Vertical / horizontal spindle
4,500 rpm
Positioning control TNC7 go

WF 610 MC+



XYZ 610 X 400 X 450 mm
Milling head 5,000 rpm
Motor spindle 12,000 rpm
TNC7 basic / SIEMENS ONE

WF 610 CNC with Automation-Package



XYZ 610 x 400 x 450 mm
Milling head 5,000 rpm
Motor spindle 12,000 rpm
TNC7 / TNC7 basic

EDUCATION4.0



WF 410 M / 610 M



WF 410 MC+ / 610 MC+



Visit our
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- ▶ Manufacturer of universal milling machines and vertical machining centers
- ▶ Expert technology consulting
- ▶ Customized application technology
- ▶ Individual programming trainings
- ▶ Fast and convenient after-sales support

Our strong partner

