

PRODUCT OVERVIEW

# WFL

MILLTURN TECHNOLOGIES



[ EN ]



CLAMP ONCE - MACHINE COMPLETE



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## COMPLETE MACHINING OF COMPLEX CHUCK AND SHAFT PARTS



### WHY USE SEVERAL DIFFERENT MACHINES IF ONE CAN DO THE WHOLE JOB?

Combining all machining and measuring operations in one single MILLTURN by WFL will raise the efficiency of your production enormously. This is an investment that pays off in virtually no time.

### GENIOUS - MULTIFUNCTIONAL

An enormous technology spectrum is covered by the possibility of interpolating the NC-axis B, C, X, Y, Z. Which makes complete machining by turning, drilling, milling, deep hole drilling, OD- and ID-splining, turn-milling and many more operations without manual interventions a reality.



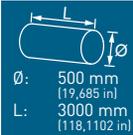
## M20 MILLTURN M20-G MILLTURN

### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	1000/1500/2000/3000
Max. swing	mm	500
<b>MAIN SPINDLE LEFT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)
<b>MAIN SPINDLE RIGHT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)

M20  
M20-G



### TURNING-BORING-MILLING UNIT - 20 kW

Max. drive power 40 % (100 %) DC	kW	25(20)
Max. speed	rpm	20000
Max. torque 40 % (100 %) DC	Nm	110(85)
Swivelling range B-axis	Degrees	240(-120 ... +120)
Travel X-axis	mm	575(-100 ... +475)
Travel Y-axis	mm	260(-130 ... +130)

### TAILSTOCK moveable and adjustable via NC-drive

Live centre	Type	MK5
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### TOOL MAGAZINE

Storage locations (coded)	pcs	40/80/120   80/160
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### CONTROL

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\* OPTION other values / systems available upon request

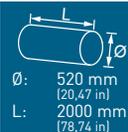
## M30 MILLTURN M30-G MILLTURN

### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	2000/1800
Max. swing	mm	520
<b>MAIN SPINDLE LEFT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)
<b>MAIN SPINDLE RIGHT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)

**M30  
M30-G**



### TURNING-BORING-MILLING UNIT - 15 kW

Max. drive power 40 % (100 %) DC	kW	20(15)
Max. speed	rpm	6000/9000/12000
Max. torque 40 % (100 %) DC	Nm	250(190)/165(125)/125(95)
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	600[-20 ... +580]
Travel Y-axis	mm	250[-100 ... +150]

### TAILSTOCK moveable and adjustable via NC-drive

Live centre	Type	MT5
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### TOOL MAGAZINE

Storage locations (coded)	pcs	40/80
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**CONTROL** Sinumerik ONE



\* OPTION other values / systems available upon request

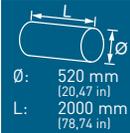
## M35 MILLTURN M35-G MILLTURN

### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	2000/1800
Max. swing	mm	520
<b>MAIN SPINDLE LEFT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)
<b>MAIN SPINDLE LEFT - A11/115 - 37 kW</b>		
Max. drive power 40 % (100 %) DC	kW	54(37)
Max. speed	rpm	3300
Max. torque 40 % (100 %) DC	Nm	1600(1100)
<b>MAIN SPINDLE LEFT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)

**M35  
M35-G**



### MAIN SPINDLE RIGHT - A8/86 - 32 kW

Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)

### TURNING-BORING-MILLING UNIT - 27 kW

Max. drive power 40 % (100 %) DC	kW	33(27)
Max. speed	rpm	9000/12000/*
Max. torque 40 % (100 %) DC	Nm	284(233)/213(175)/*
Swivelling range B-axis	Degrees	220(-110 ... +110)
Travel X-axis	mm	600(-20 ... +580)
Travel Y-axis	mm	250(-100 ... +150)

### TAILSTOCK moveable and adjustable via NC-drive

Live centre	Type	MT5
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### TOOL MAGAZINE

Storage locations (coded)	pcs	40/80/120
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### CONTROL

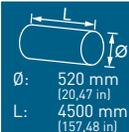
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\* OPTION other values / systems available upon request

## M40 MILLTURN M40-G MILLTURN

M40  
M40-G



### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	1000/2000/3000/4500
Max. swing	mm	520
<b>MAIN SPINDLE LEFT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)
<b>MAIN SPINDLE LEFT - A11/115 - 37 kW</b>		
Max. drive power 40 % (100 %) DC	kW	54(37)
Max. speed	rpm	3300
Max. torque 40 % (100 %) DC	Nm	2000(1400)
<b>MAIN SPINDLE LEFT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)
<b>MAIN SPINDLE RIGHT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)

### MAIN SPINDLE RIGHT - A11/130 - 45 kW

Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)

### TURNING-BORING-MILLING UNIT - 27 kW

Max. drive power 40 % (100 %) DC	kW	33(27)
Max. speed	rpm	9000/12000/*
Max. torque 40 % (100 %) DC	Nm	284(233)/213(175)/*
Swivelling range B-axis	Degrees	220(-110 ... +110)
Travel X-axis	mm	600(-20 ... +580)
Travel Y-axis	mm	250(-100 ... +150)

### TAILSTOCK moveable and adjustable via NC-drive

Live centre	Type	MT5
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### TOOL MAGAZINE

Storage locations (coded)	pcs	50/100/150/200
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### CONTROL

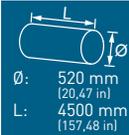
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\* OPTION other values / systems available upon request

## M40X MILLTURN M40X-G MILLTURN

M40X  
M40X-G



### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	1000/2000/3000/4500
Max. swing	mm	520
<b>MAIN SPINDLE LEFT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)
<b>MAIN SPINDLE LEFT - A11/115 - 37 kW</b>		
Max. drive power 40 % (100 %) DC	kW	54(37)
Max. speed	rpm	3300
Max. torque 40 % (100 %) DC	Nm	2000(1400)
<b>MAIN SPINDLE LEFT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)
<b>MAIN SPINLE RIGHT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	44(32)
Max. speed	rpm	4000
Max. torque 40 % (100 %) DC	Nm	840(610)
<b>MAIN SPINLE RIGHT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)

### TURNING-BORING-MILLING UNIT - 27 kW

Max. drive power 40 % (100 %) DC	kW	33(27)
Max. speed	rpm	9000/12000/*
Max. torque 40 % (100 %) DC	Nm	284(233)/213(175)/*
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	800[-20 ... +780]
Travel Y-axis	mm	400[-100...+300]

### TURNING-BORING-MILLING UNIT - 35 kW

Max. drive power 40 % (100 %) DC	kW	40(35)
Max. speed	rpm	6000/8000
Max. torque 40 % (100 %) DC	Nm	480(420)/300(260)
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	800[-20 ... +780]
Travel Y-axis	mm	400[-100 ... +300]

### TAILSTOCK moveable and adjustable via NC-drive

Live centre	Type	MT5
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### TOOL MAGAZINE HSK-A63/Capto C6

Storage locations (coded)	pcs	50/100/150/200
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded)	pcs	36/72/108/144
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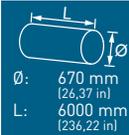
<b>CONTROL</b>	Sinumerik ONE	
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\* OPTION other values / systems available upon request

## M50 MILLTURN M50-G MILLTURN

M50  
M50-G



### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	1000/2000/3000/4500/6000
Max. swing	mm	670/670/670/670/650
<b>MAIN SPINDLE LEFT - A11/115 - 37 kW</b>		
Max. drive power 40 % (100 %) DC	kW	54(37)
Max. speed	rpm	3300
Max. torque 40 % (100 %) DC	Nm	2000(1400)
<b>MAIN SPINDLE LEFT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)
<b>MAIN SPINDLE LEFT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	3200(2320)
<b>MAIN SPINDLE LEFT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	2600
Max. torque 40 % (100 %) DC	Nm	3600(2740)
<b>MAIN SPINLE RIGHT - A8/86 - 32 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)
<b>MAIN SPINLE RIGHT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	60(40)
Max. speed	rpm	2600
Max. torque 40 % (100 %) DC	Nm	2852(1900)

### TURNING-BORING-MILLING UNIT - 27 kW

Max. drive power 40 % (100 %) DC	kW	33(27)
Max. speed	rpm	9000/12000/*
Max. torque 40 % (100 %) DC	Nm	284(233)/213(175)/*
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	800[-20 ... +780]
Travel Y-axis	mm	400[-175 ... +225]

### TURNING-BORING-MILLING UNIT - 35 kW

Max. drive power 40 % (100 %) DC	kW	40(35)
Max. speed	rpm	6000/8000
Max. torque 40 % (100 %) DC	Nm	480(420)/300(260)
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	800[-20 ... +780]
Travel Y-axis	mm	400[-175 ... +225]

### TAILSTOCK moveable and adjustable via NC-drive

Live centre	Type	MT5
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### TOOL MAGAZINE HSK-A63/Capto C6

Storage locations (coded)	pcs	50/100/150/200
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded)	pcs	36/72/108/144
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<b>CONTROL</b>	Sinumerik ONE	
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\* OPTION other values / systems available upon request

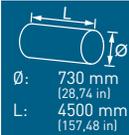
## M60 MILLTURN M60-G MILLTURN

### WORKING RANGE

(The values given may deviate depending on the machine configuration.)

Nominal width	mm	1000/2000/3000/4500
Max. swing	mm	730/690/670/630
<b>MAIN SPINDLE LEFT - A11/115 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	3300
Max. torque 40 % (100 %) DC	Nm	2500(1830)
<b>MAIN SPINDLE LEFT - A15/165 - 60 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	2600
Max. torque 40 % (100 %) DC	Nm	3600(2740)
<b>MAIN SPINDLE RIGHT - A11/115 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	3300
Max. torque 40 % (100 %) DC	Nm	2500(1830)
<b>TURNING-BORING-MILLING UNIT - 30 kW</b>		
Max. drive power 100 % DC	kW	30
Max. speed	rpm	6000
Max. torque 100 % DC	Nm	315
Swivelling range B-axis	Degrees	220(-110 ... +90)
Travel X-axis	mm	720(-20 ... +700)
Travel Y-axis	mm	300(-125 ... +175)/ 600(-125 ... +475)

M60  
M60-G



### TURNING-BORING-MILLING UNIT - (M60-G) - 25 kW

Max. drive power 100 % DC	kW	25
Max. speed	rpm	4000
Max. torque 100 % DC	Nm	300
Swivelling range B-axis	Degrees	220(-110 ... +90)
Travel X-axis	mm	700(-30 ... +670)
Travel Y-axis	mm	300(-125 ... +175)

### TAILSTOCK with hydraulic quill actuation

Live centre	Type	MT5
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded) Capto C8	pcs	36/72/108/200*
Storage locations (coded) HSK-A100	pcs	30/60/90/200*

**CONTROL** Sinumerik ONE



\* OPTION other values / systems available upon request

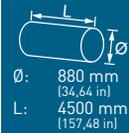
## M65 MILLTURN

### WORKING RANGE

(The values given may deviate depending on the machine configuration.)

Nominal width	mm	1000/2000/3000/4500
Max. swing	mm	880/840/820/780
<b>MAIN SPINDLE LEFT - A15/165 - 40 kW</b>		
Max. drive power 100 % DC	kW	40
Max. speed	rpm	2600
Max. torque 100 % DC	Nm	2320
<b>MAIN SPINDLE LEFT - A15/165 - 60 kW</b>		
Max. drive power 100 % DC	kW	60
Max. speed	rpm	2600
Max. torque 100 % DC	Nm	2740
<b>TURNING-BORING-MILLING UNIT - 30 kW</b>		
Max. drive power 100 % DC	kW	27
Max. speed	rpm	6000
Max. torque 100 % DC	Nm	315
Swivelling range B-axis	Degrees	200(-110 ... +90)
Travel X-axis	mm	720(-20 ... +700)
Travel Y-axis	mm	600(-200 ... +400)

## M65



### TURNING-BORING-MILLING UNIT - 55 kW

Max. drive power 100 % DC	kW	55
Max. speed	rpm	3200
Max. torque 100 % DC	Nm	730
Swivelling range B-axis	Degrees	200(-110 ... +90)
Travel X-axis	mm	720(-20 ... +700)
Travel Y-axis	mm	500(-200 ... +300)

### TAILSTOCK with hydraulic quill actuation

Live centre	Type	MT6
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded) Capto C8	pcs	36/72/108/200/*
Storage locations (coded) HSK-A100	pcs	30/60/90/200/*

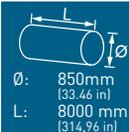
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\* OPTION other values / systems available upon request

## M70 MILLTURN M70-G MILLTURN

M70  
M70-G



### WORKING RANGE

(The values given may deviate depending on the machine configuration.)

Nominal width	mm	1000/2000/3000/ 4500/6000/8000
Max. swing	mm	850/850/850/850/820/790
<b>MAIN SPINDLE LEFT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)
<b>MAIN SPINDLE LEFT - A15/165 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	2400
Max. torque 40 % (100 %) DC	Nm	3420(2440)
<b>MAIN SPINDLE LEFT - A15/165 - 60 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	1600
Max. torque 40 % (100 %) DC	Nm	5860(4500)
<b>MAIN SPINDLE LEFT - A20/330 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	3700(2900)
<b>MAIN SPINDLE LEFT - A20/330 - 60 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	5860(4500)
<b>MAIN SPINLE RIGHT - A11/130 - 45 kW</b>		
Max. drive power 40 % (100 %) DC	kW	55(45)
Max. speed	rpm	2500
Max. torque 40 % (100 %) DC	Nm	1830(1500)

### MAIN SPINLE RIGHT - A15/165 - 40 kW

Max. drive power 40 % (100 %) DC	kW	60(40)
Max. speed	rpm	2400
Max. torque 40 % (100 %) DC	Nm	3000(2000)

### MAIN SPINLE RIGHT - A15/165 - 60 kW

Max. drive power 40 % (100 %) DC	kW	90(60)
Max. speed	rpm	1600
Max. torque 40 % (100 %) DC	Nm	4800(3200)

### TURNING-BORING-MILLING UNIT - 35 kW

Max. drive power 40 % (100 %) DC	kW	40(35)
Max. speed	rpm	6000/8000
Max. torque 40 % (100 %) DC	Nm	480(420)/300(260)
Swivelling range B-axis	Degrees	220(-110 ... +110)
Travel X-axis	mm	900(-20 ... +880)
Travel Y-axis	mm	600(-250 ... +350)

### TURNING-BORING-MILLING UNIT - 45 kW

Max. drive power 40 % (100 %) DC	kW	58(45)
Max. speed	rpm	5000/8000
Max. torque 40 % (100 %) DC	Nm	640(500)/400(310)
Swivelling range B-axis	Degrees	220(-110 ... +110)
Travel X-axis	mm	900(-20 ... +880)
Travel Y-axis	mm	525(-225 ... +300)

### TAILSTOCK moveable and adjustable via NC-drive

Live centre	Type	MT6
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### TOOL MAGAZINE

Storage locations (coded)	pcs	36/72/108/200/*
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### CONTROL

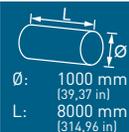
Sinumerik ONE



\* OPTION other values / systems available upon request

## M80 MILLTURN M80-G MILLTURN

**M80  
M80-G**



### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	1000/2000/3000/ 4500/6000/8000
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Max. swing	mm	1000/1000/1000/ 1000/980/950
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#### MAIN SPINDLE LEFT - A15/165 - 40 kW

Max. drive power 40 % (100 %) DC	kW	56(40)
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Max. speed	rpm	2400
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Max. torque 40 % (100 %) DC	Nm	3420(2440)
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#### MAIN SPINDLE LEFT - A15/165 - 60 kW

Max. drive power 40 % (100 %) DC	kW	80(60)
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Max. speed	rpm	1600
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Max. torque 40 % (100 %) DC	Nm	5860(4500)
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#### MAIN SPINDLE LEFT - A15/220 - 74 kW

Max. drive power 40 % (100 %) DC	kW	103(74)
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Max. speed	rpm	1600/1000
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Max. torque 40 % (100 %) DC	Nm	6400(4600)/10160(7300)
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#### MAIN SPINDLE LEFT - A20/330 - 40 kW

Max. drive power 40 % (100 %) DC	kW	56(40)
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Max. speed	rpm	1000
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Max. torque 40 % (100 %) DC	Nm	3700(2900)
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#### MAIN SPINDLE LEFT - A20/330 - 60 kW

Max. drive power 40 % (100 %) DC	kW	80(60)
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Max. speed	rpm	1000
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Max. torque 40 % (100 %) DC	Nm	5860(4500)
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#### MAIN SPINLE RIGHT - A15/165 - 40 kW

Max. drive power 40 % (100 %) DC	kW	60(40)
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Max. speed	rpm	2400
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Max. torque 40 % (100 %) DC	Nm	3000(2000)
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#### MAIN SPINLE RIGHT - A15/165 - 60 kW

Max. drive power 40 % (100 %) DC	kW	90(60)
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Max. speed	rpm	1600
------------	-----	------

Max. torque 40 % (100 %) DC	Nm	4800(3200)
-----------------------------	----	------------

#### MAIN SPINLE RIGHT - A15/165 - 60 kW

Max. drive power 40 % (100 %) DC	kW	60(40)
----------------------------------	----	--------

Max. speed	rpm	1000
------------	-----	------

Max. torque 40 % (100 %) DC	Nm	3600(2400)
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#### TURNING-BORING-MILLING UNIT - 45 kW

Max. drive power 40 % (100 %) DC	kW	58(45)
----------------------------------	----	--------

Max. speed	rpm	5000/8000
------------	-----	-----------

Max. torque 40 % (100 %) DC	Nm	640(500)/400(310)
-----------------------------	----	-------------------

Swivelling range B-axis	Degrees	220(-110 ... +110)
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Travel X-axis	mm	900(-20 ... +880)
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Travel Y-axis	mm	650(-300 ... +350)
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#### TAILSTOCK moveable and adjustable via NC-drive (M80)

Live centre	Type	MT6
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#### TAILSTOCK moveable and adjustable via NC-drive (M80HW)

Live centre	Type	ME100
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#### TOOL MAGAZINE

Storage locations (coded)	pcs	36/72/108/200/*
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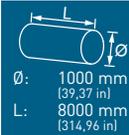
<b>CONTROL</b>	Sinumerik ONE	
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\* OPTION other values / systems available upon request

## M80X MILLTURN M80X-G MILLTURN

**M80X  
M80X-G**



### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	1000/2000/3000/ 4500/6000/8000
Max. swing	mm	1000/1000/1000/ 1000/980/950
<b>MAIN SPINDLE LEFT - A15/165 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	2400
Max. torque 40 % (100 %) DC	Nm	3420(2440)
<b>MAIN SPINDLE LEFT - A15/165 - 60 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	1600
Max. torque 40 % (100 %) DC	Nm	5860(4500)
<b>MAIN SPINDLE LEFT - A15/220 - 74 kW</b>		
Max. drive power 40 % (100 %) DC	kW	103(74)
Max. speed	rpm	1600/1000
Max. torque 40 % (100 %) DC	Nm	6400(4600)/10160(7300)
<b>MAIN SPINDLE LEFT - A20/330 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	3700(2900)
<b>MAIN SPINDLE LEFT - A20/330 - 60 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	5860(4500)

### MAIN SPINLE RIGHT - A15/165 - 40 kW

Max. drive power 40 % (100 %) DC	kW	60(40)
Max. speed	rpm	2400
Max. torque 40 % (100 %) DC	Nm	3000(2000)

### MAIN SPINLE RIGHT - A15/165 - 60 kW

Max. drive power 40 % (100 %) DC	kW	90(60)
Max. speed	rpm	1600
Max. torque 40 % (100 %) DC	Nm	4800(3200)

### MAIN SPINLE RIGHT - A20/330 - 40 kW

Max. drive power 40 % (100 %) DC	kW	60(40)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	3600(2400)

### TURNING-BORING-MILLING UNIT - 45 kW

Max. drive power 40 % (100 %) DC	kW	58(45)
Max. speed	rpm	5000/8000
Max. torque 40 % (100 %) DC	Nm	640(500)/400(310)
Swivelling range B-axis	Degrees	220(-110 ... +110)
Travel X-axis	mm	1050(-20 ... +1030)
Travel Y-axis	mm	650(-300 ... +350)

### TAILSTOCK moveable and adjustable via NC-drive (M80X)

Live centre	Type	MT6
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### TAILSTOCK moveable and adjustable via NC-drive (M80XHW)

Live centre	Type	ME100
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### TOOL MAGAZINE

Storage locations (coded)	pcs	36/72/108/200/*
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### CONTROL

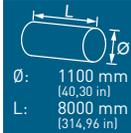
Sinumerik ONE



\* OPTION other values / systems available upon request

## M85 MILLTURN M85-G MILLTURN

**M85  
M85-G**



### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	1000/2000/3000/ 4500/6000/8000
Max. swing	mm	1100/1100/1100/ 1100/1080/1050
<b>MAIN SPINDLE LEFT - A15/165 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	2400
Max. torque 40 % (100 %) DC	Nm	3420(2440)
<b>MAIN SPINDLE LEFT - A15/165 - 60 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	1600
Max. torque 40 % (100 %) DC	Nm	5860(4500)
<b>MAIN SPINDLE LEFT - A15/220 - 74 kW</b>		
Max. drive power 40 % (100 %) DC	kW	103(74)
Max. speed	rpm	1600/1000
Max. torque 40 % (100 %) DC	Nm	6400(4600)/10160(7300)
<b>MAIN SPINDLE LEFT - A20/330 - 40 kW</b>		
Max. drive power 40 % (100 %) DC	kW	56(40)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	3700(2900)
<b>MAIN SPINDLE LEFT - A20/330 - 60 kW</b>		
Max. drive power 40 % (100 %) DC	kW	80(60)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	5860(4500)

### MAIN SPINLE RIGHT - A15/165 - 40 kW

Max. drive power 40 % (100 %) DC	kW	60(40)
Max. speed	rpm	2400
Max. torque 40 % (100 %) DC	Nm	3000(2000)

### MAIN SPINLE RIGHT - A15/165 - 60 kW

Max. drive power 40 % (100 %) DC	kW	90(60)
Max. speed	rpm	1600
Max. torque 40 % (100 %) DC	Nm	4800(3200)

### MAIN SPINLE RIGHT - A20/330 - 40 kW

Max. drive power 40 % (100 %) DC	kW	60(40)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	3600(2400)

### TURNING-BORING-MILLING UNIT - 45 kW

Max. drive power 40 % (100 %) DC	kW	58(45)
Max. speed	rpm	5000/8000
Max. torque 40 % (100 %) DC	Nm	640(500)/400(310)
Swivelling range B-axis	Degrees	220(-110 ... +110)
Travel X-axis	mm	1050(-20 ... +1030)
Travel Y-axis	mm	650(-300 ... +350)

### TAILSTOCK moveable and adjustable via NC-drive (M85)

Live centre	Type	MT6
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### TAILSTOCK moveable and adjustable via NC-drive (M85HW)

Live centre	Type	ME100
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### TOOL MAGAZINE

Storage locations (coded)	pcs	36/72/108/200/*
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**CONTROL** Sinumerik ONE



\* OPTION other values / systems available upon request

## M100 MILLTURN

### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	2000/3000/5000/6500/ 8000/10000/12000
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Max. swing	mm	900/900/900/880/ 860/820/780
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### MAIN SPINDLE LEFT - A15/220 - 74 kW

Max. drive power 40 % (100 % DC)	kW	103(74)
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Max. speed	rpm	1600/1000
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Max. torque 40 % (100 % DC)	Nm	6400(4600)/10160(7300)
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### MAIN SPINDLE LEFT - A15/220 - 100 kW

Max. drive power 40 % (100 % DC)	kW	113(100)
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Max. speed	rpm	1600/1000
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Max. torque 40 % (100 % DC)	Nm	8790(7810)/14000(12400)
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### TURNING-BORING-MILLING UNIT - 30 kW

Max. drive power 100 % DC	kW	30
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Max. speed	rpm	6000
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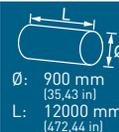
Max. torque 100 % DC	Nm	315
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Swivelling range B-axis	Degrees	200(-110 ... +90)
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Travel X-axis	mm	920(-20 ... +900)
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Travel Y-axis	mm	600(-200 ... +400)
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## M100



### TURNING-BORING-MILLING UNIT - 55 kW

Max. drive power 100 % DC	kW	55
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Max. speed	rpm	3200
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Max. torque 100 % DC	Nm	730
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Swivelling range B-axis	Degrees	220(-110 ... +110)
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Travel X-axis	mm	920(-20 ... +900)
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Travel Y-axis	mm	500(-200 ... +300)
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### TAILSTOCK with hydraulic quill actuation

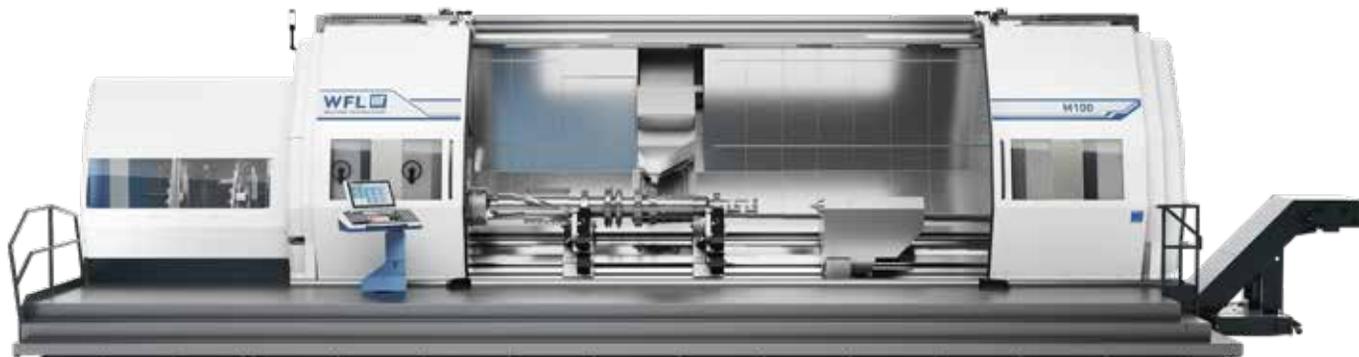
Live centre	Type	MT6
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded) Capto C8	pcs	36/72/108/*
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Storage locations (coded) HSK-A100	pcs	30/60/90/*
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<b>CONTROL</b>	Sinumerik ONE	
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\* OPTION other values / systems available upon request

## M120 MILLTURN

**M120**


### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	2000/3000/5000/6500/ 8000/10000/12000
Max. swing	mm	1140/1140/1140/1120/ 1100/1060/1020
<b>MAIN SPINDLE LEFT - A15/220 - 74 kW</b>		
Max. drive power 40 % (100 % DC)	kW	103(74)
Max. speed	rpm	1600/1000
Max. torque 40 % (100 % DC)	Nm	6400(4600)/10160(7300)
<b>MAIN SPINDLE LEFT - A15/220 - 100 kW</b>		
Max. drive power 40 % (100 % DC)	kW	113(100)
Max. speed	rpm	1600/1000
Max. torque 40 % (100 % DC)	Nm	8790(7810)/14000(12400)
<b>MAIN SPINDLE LEFT - B20/245 - 74 kW</b>		
Max. drive power 40 % (100 % DC)	kW	103(74)
Max. speed	rpm	1000
Max. torque 40 % (100 % DC)	Nm	10160(7300)
<b>MAIN SPINDLE LEFT - B20/245 - 100 kW</b>		
Max. drive power 40 % (100 % DC)	kW	113(100)
Max. speed	rpm	1000
Max. torque 40 % (100 % DC)	Nm	14000(12400)
<b>MAIN SPINDLE LEFT - B20/200 - 100 kW</b>		
Max. drive power 40 % (100 % DC)	kW	113(100)
Max. speed	rpm	1000
Max. torque 40 % (100 % DC)	Nm	14000(12400)

### TURNING-BORING-MILLING UNIT - 30 kW

Max. drive power 100 % DC	kW	30
Max. speed	rpm	6000
Max. torque 100 % DC	Nm	315
Swivelling range B-axis	Degrees	200[-110 ... +90]
Travel X-axis	mm	920[-20 ... +900]
Travel Y-axis	mm	600(-200 ... +400)

### TURNING-BORING-MILLING UNIT - 45 kW

Max. drive power 100 % DC	kW	45
Max. speed	rpm	8000
Max. torque 100 % DC	Nm	400(310)
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	1100[-20 ... +1080]
Travel Y-axis	mm	650(-290 ... +360)

### TURNING-BORING-MILLING UNIT - 55 kW

Max. drive power 100 % DC	kW	55
Max. speed	rpm	3200
Max. torque 100 % DC	Nm	730
Swivelling range B-axis	Degrees	200[-110 ... +90]
Travel X-axis	mm	1120[-20 ... +1100]
Travel Y-axis	mm	650(-300 ... +350)

### TAILSTOCK with hydraulic quill actuation

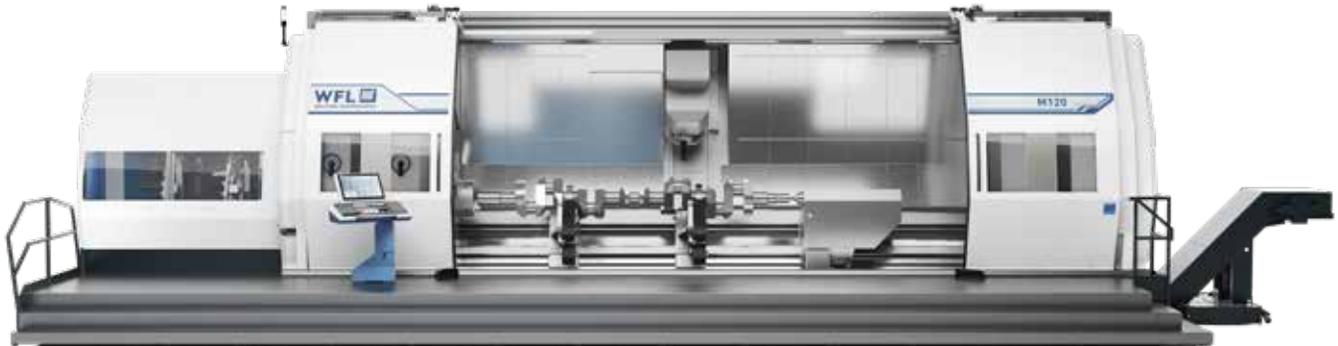
Live centre	Type	MT6/Me100
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded) Capto C8	pcs	36/72/108/200/*
Storage locations (coded) HSK-A100	pcs	30/60/90/200/*

### CONTROL

Sinumerik ONE



\* OPTION other values / systems available upon request

## M150 MILLTURN

**M150**


### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	2000/3000/5000/6500/ 8000/10000/12000
Max. swing	mm	1480/1480/1480/1460/ 1440/1400/1360
<b>MAIN SPINDLE LEFT - A15/220 - 74 kW</b>		
Max. drive power 40 % (100 %) DC	kW	103(74)
Max. speed	rpm	1600/1000
Max. torque 40 % (100 %) DC	Nm	6400(4600)/10160(7300)
<b>MAIN SPINDLE LEFT - A15/220 - 100 kW</b>		
Max. drive power 40 % (100 %) DC	kW	113(100)
Max. speed	rpm	1600/1000
Max. torque 40 % (100 %) DC	Nm	8790(7810)/14000(12400)
<b>MAIN SPINDLE LEFT - B20/245 - 74 kW</b>		
Max. drive power 40 % (100 %) DC	kW	103(74)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	10160(7300)
<b>MAIN SPINDLE LEFT - B20/245 - 100 kW</b>		
Max. drive power 40 % (100 %) DC	kW	113(100)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	14000(12400)
<b>MAIN SPINDLE LEFT - B20/200 - 100 kW</b>		
Max. drive power 40 % (100 %) DC	kW	113(100)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	14000(12400)

### TURNING-BORING-MILLING UNIT - 45 kW

Max. drive power 100 % DC	kW	45
Max. speed	rpm	8000
Max. torque 100 % DC	Nm	400(310)
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	1150[-20 ... +1130]
Travel Y-axis	mm	800[-400 ... +400]

### TURNING-BORING-MILLING UNIT - 55 kW

Max. drive power 100 % DC	kW	55
Max. speed	rpm	3200
Max. torque 100 % DC	Nm	730
Swivelling range B-axis	Degrees	200[-110 ... +90]
Travel X-axis	mm	1120[-20 ... +1100]
Travel Y-axis	mm	800[-450 ... +350]

### TAILSTOCK with hydraulic quill actuation

Live centre	Type	Me100
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded) Capto C8	pcs	36/72/108/200/*
Storage locations (coded) HSK-A100	pcs	30/60/90/200/*

### CONTROL

Sinumerik ONE



\* OPTION other values / systems available upon request

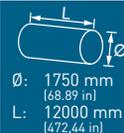
## M175 MILLTURN

### WORKING RANGE

[The values given may deviate depending on the machine configuration.]

Nominal width	mm	2000/3000/5000/6500/ 8000/10000/12000
Max. swing	mm	1750/1750/1750/1750/ 1730/1700/1660
<b>MAIN SPINDLE LEFT - B20/200 - 74 kW</b>		
Max. drive power 40 % (100 %) DC	kW	103(74)
Max. speed	rpm	1600/1000
Max. torque 40 % (100 %) DC	Nm	6400(4600)/10160(7300)
<b>MAIN SPINDLE LEFT - A15/220 - 100 kW</b>		
Max. drive power 40 % (100 %) DC	kW	113(100)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	14000(12400)

## M175



### TURNING-BORING-MILLING UNIT - 45 kW

Max. drive power 40 % (100 %) DC	kW	58(45)
Max. speed	rpm	5000/8000
Max. torque 40 % (100 %) DC	Nm	640(500)/400(310)
Swivelling range B-axis	Degrees	220[-110 ... +110]
Travel X-axis	mm	1620[-20 ... +1600]
Travel Y-axis	mm	1100[-550 ... +550]

### TAILSTOCK with hydraulic quill actuation

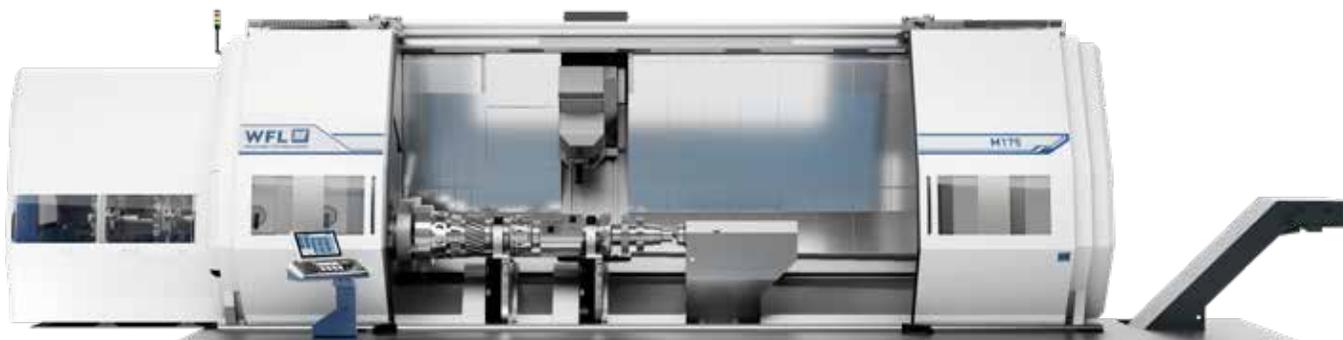
Live centre	Type	FK150/FK180
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded) Capto C8	pcs	36/72/108/200/*
Storage locations (coded) HSK-A100	pcs	30/60/90/200/*

### CONTROL

Sinumerik ONE



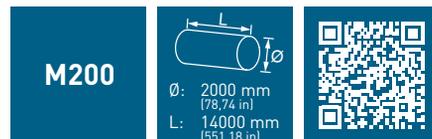
\* OPTION other values / systems available upon request

## M200 MILLTURN

### WORKING RANGE

(The values given may deviate depending on the machine configuration.)

Nominal width	mm	5000/6500/8000/10000/ 12000/140000
Max. swing	mm	2000 *
<b>MAIN SPINDLE LEFT - B20/245 - 100 kW</b>		
Max. drive power 40 % (100 %) DC	kW	113(100)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	14000(12400)
<b>MAIN SPINDLE LEFT - B20/200 - 100 kW</b>		
Max. drive power 40 % (100 %) DC	kW	113(100)
Max. speed	rpm	1000
Max. torque 40 % (100 %) DC	Nm	14000(12400)
<b>MAIN SPINDLE LEFT - B28/220 - 140 kW</b>		
Max. drive power 40 % (100 %) DC	kW	200(140)
Max. speed	rpm	500
Max. torque 40 % (100 %) DC	Nm	57000(40000)
<b>MAIN SPINDLE LEFT - B28/220 - 180 kW</b>		
Max. drive power 40 % (100 %) DC	kW	230(180)
Max. speed	rpm	500
Max. torque 40 % (100 %) DC	Nm	80000(64000)



### MAIN SPINDLE LEFT - B20/200 - 100 kW

Max. drive power 40 % (100 %) DC	kW	230(180)
Max. speed	rpm	350
Max. torque 40 % (100 %) DC	Nm	110000(87000)

### TURNING-BORING-MILLING UNIT - 80 kW

Max. drive power 100 % DC	kW	80
Max. speed	rpm	3500
Max. torque 100 % DC	Nm	1800
Swivelling range B-axis	Degrees	220(-110 ... +110)
Travel X-axis	mm	2100(-20 ... +2080)
Travel Y-axis	mm	1400(-800 ... +600)

### TAILSTOCK with hydraulic quill actuation

Live centre	Type	Me100/FK180/FK235/ WFL-center
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### TOOL MAGAZINE HSK-A100/Capto C8

Storage locations (coded) Capto C8	pcs	30/60/90/180/*
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<b>CONTROL</b>	Sinumerik ONE
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\* OPTION other values / systems available upon request

## TECHNOLOGIES



→ Turning



→ 5-axis milling



→ WFL system boring bar



→ Turn-milling



→ In-process measuring



→ Shaping of gear teeth  
(Flanx-Spline)



→ B-axis turning



→ Milling of gear teeth  
(Flanx-LM)



→ Drilling



→ Drilling + ID boring



→ Special tool heads



→ Deep hole drilling



→ Cam milling



→ Milling of crankshaft pins



→ CNC special contour bar



→ Milling



→ Hobbing of gear teeth  
(Flanx-Hob)



→ ID machining tool



→ CNC facing head



→ Grinding + fine machining



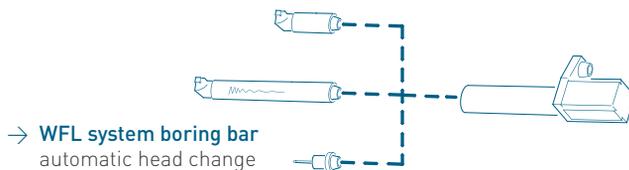
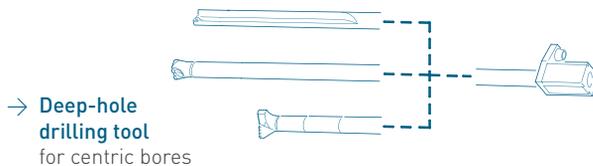
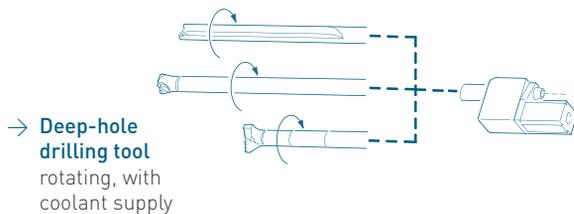
## THE PRISMATIC TOOL SYSTEM

- The prism interface allows the use of large tools that exceed the maximum dimensions of standard tools.
- Thanks to the use of solid prism holders, boring bars, solid boring tools, and angle heads can be clamped extremely stably on the milling unit.



## PICK UP MAGAZIN

- Additional magazine for storing 3 prismatic tools
- For long tools with standard tool interface
- Automatic tool change from the pick-up magazine and hydraulic clamping



## PROGRAMMING, SIMULATION AND COLLISION PREVENTION

- CrashGuard protects your MILLTURN in real time based on a patented, predictive 3D machine model
- CrashGuard Studio enables offline simulation directly from the NC program, taking program optimisation, quality assurance and process reliability to a new level
- Millturn PRO: Programming with interactive graphics on the CNC control or PC

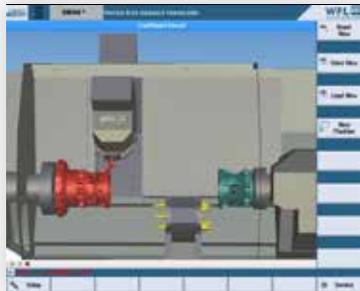
**MILLTURN  
PRO**

**CRASH  
GUARD<sup>®</sup>  
STUDIO**

**CRASH  
GUARD<sup>®</sup>**



- Millturn PRO: Interactive user interface



- CrashGuard: Collision prevention



## FUNCTIONS FOR AUTOMATED PROCESSES

- Maximum productivity combined with a reliable process
- Intelligent measuring cycles for dimension, shape, position and roughness measurements
- Standard, scanning and ultrasonic radio transmission probe for automatic process correction (closed loop)
- Active temperature compensation
- Intelligent cutting force monitoring via iControl
- Automatic emergency retraction routines
- Adaptive control for feed rate and spindle speed
- Enables closed door machining, unmanned production and monitoring of automated MILLTURNS

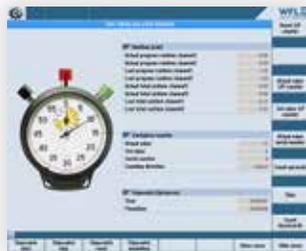
**iCONTROL**  
PROCESS MONITORING



- iControl: Process monitoring

## HIGH-END SOFTWARE FOR CUSTOM MACHINING

- Crankshaft machining with cranx
- Gear machining and measurement with flanax
- Screw machining with ScrewCAM
- Grinding and dressing cycles with structure-borne sound detection
- Special cycles for actuating tools, rounding of holes, cam milling



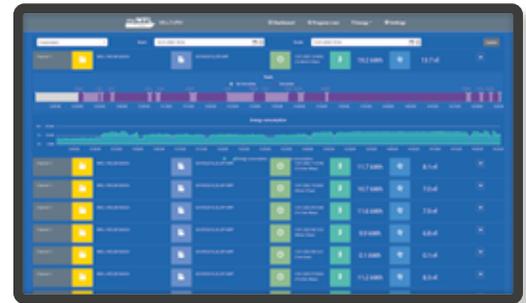
- Process time recording



- Workpiece measurement

## FUTURE-PROOF DIGITISATION WITH MYWFL

- myWFL Cockpit & Energy: Operational data acquisition, energy consumption analysis and OEE visualisation on the machine screen or in your own company network (not a cloud solution)
- myWFL Condition Monitoring: Evaluation of drive and sensor data
- myWFL Health Check: Cyclical check of machine geometry



- myWFL



## AUTOMATION SOLUTIONS



### WFL AUTOMATION SOLUTIONS

#### END-TO-END AUTOMATION

– Everything from  
a single source

A continuous production flow ensures that machine utilisation and productivity are optimised, bridging breaks and shift changes. This also reduces staffing requirements and helps to counter the shortage of skilled workers.

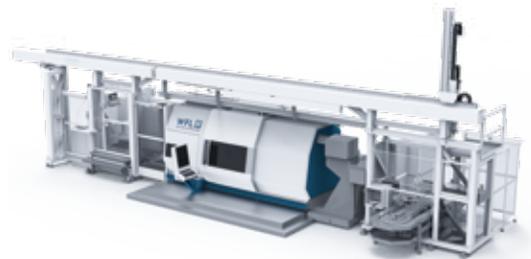
Based on these measures, unit costs can be reduced while ensuring consistently high product quality. Integrating other processes also enhances efficiency in production.

Unmanned production is possible even with small batch sizes, enabling continuous 24/7 production.



## WHY CHOOSE WFL AUTOMATION SOLUTIONS?

- One-stop shop means fewer interfaces for the customer
- Holistic process approach
- Process optimisation (machining and automation) results in more reliable processes
- Customised solution
- Use of various robot brands with a load capacity of up to 2.3 t
- Gantry solutions with a load capacity of up to 5 t



## KNOW-HOW & FEATURES

- From the cell solution to factory automation
- Host computer solutions
- Interfaces to distribution logistics (AGV, mobile robot)
- Material flow tracking / traceability
- Operational data acquisition
- Integration of additional (parallel to machining time) processes (measuring, detecting, marking, cleaning, deburring, etc.)
- Visualisation possible on machine control system
- Bin picking and camera solutions
- Automatic machine set-up (jaw, chuck, tailstock, tool and prismatic tool, etc.)
- Automatic set-up of the automation solution (gripper/finger change)



Automation examples

## WFL CUSTOMER SERVICE

### „WE KEEP YOUR MILLTURN TURNING!“

“Excellent service for maximum availability”

At WFL, our commitment to our customers doesn't end with the delivery of the machine. Our dedicated customer service team ensures maximum machine availability and sustainable productivity worldwide. Thanks to fast response times, an expert team and comprehensive availability of spare parts, we provide our customers with reliable support throughout the entire life cycle of their machines.

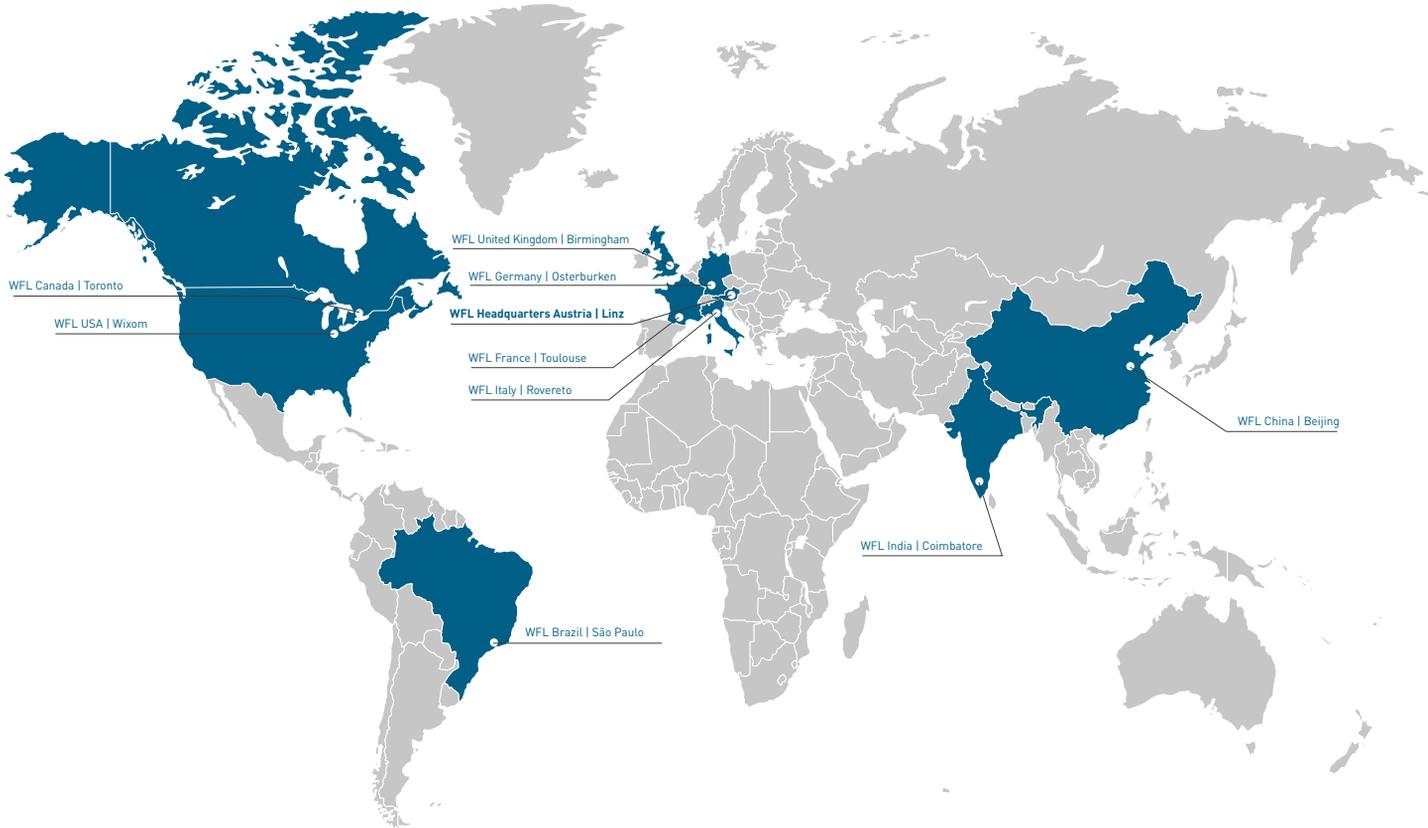


- Worldwide service directly in your region via the WFL Service Hubs
- Extensive network of spare parts warehouses at key logistics hubs ensure rapid availability
- 24-hour service hotline: Issues are quickly resolved thanks to round-the-clock support



- Experienced, fully trained WFL technicians staff our hotline and take care of your MILLTURN
- Quick response time means short lead times for spare parts and service requests
- Supply of spare parts: Original spare parts for maximum safety and availability, including for older MILLTURNS, with express shipping worldwide
- Customised maintenance agreements offer regular inspections, cost transparency and maximum machine availability
- Holistic service approach: Individual support across the entire life cycle of the MILLTURN
- Advanced Services:
  - Machine modifications and upgrades
  - Individual customer training
  - Production and technology support
  - And much more

## WFL WORLDWIDE



### WFL SALES & SERVICE CENTER

**WFL Headquarters Austria | Linz**  
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**WFL Germany | Osterburken**  
[www.wfl-germany.com](http://www.wfl-germany.com) | [office@wfl-germany.com](mailto:office@wfl-germany.com)

**WFL United Kingdom | Birmingham**  
[www.wfl-uk.net](http://www.wfl-uk.net) | [office@wfl-uk.net](mailto:office@wfl-uk.net)

**WFL France | Toulouse**  
[www.wfl-france.com](http://www.wfl-france.com) | [office@wfl-france.com](mailto:office@wfl-france.com)

**WFL Italy | Rovereto**  
[www.wfl-italia.com](http://www.wfl-italia.com) | [office@wfl-italia.com](mailto:office@wfl-italia.com)

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# WFL RANGE OF APPLICATIONS



→ Aerospace industry



→ Oil & gas



→ Hydraulics & pneumatics



→ Automotive industry



→ Security



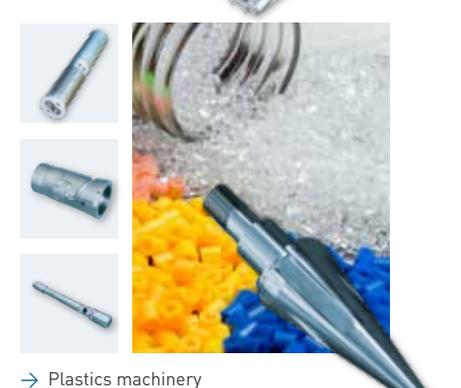
→ Mechanical engineering



→ Energy technology



→ Crankshafts



→ Plastics machinery

**CRASH  
GUARD**

**CRASH  
GUARD**  
STUDIO

**MILLTURN  
PRO**

**FLANX**  
THE TOOTH PROFILER

**crANx**  
THE CRANKSHAFT PROFILER

**Gear  
CAM**  
Based on EUKLID GearCAM

**WFL TOOLING  
SOLUTIONS**

**WFL AUTOMATION  
SOLUTIONS**

**utronicx**  
THE VIRTUAL U-AXIS

**iCONTROL**  
PROCESS MONITORING

**myWFL**  
Cockpit

**myWFL**  
Health Check

**myWFL**  
Condition Monitoring

**myWFL**  
Energy

**Screw  
CAM**

**robCELL**

**mobileCELL**

**intCELL**

**ganCELL**

**greenside**  
TECHNOLOGIES

Ready for  
Industry 4.0

**myMILLTURN**

Subject to technical changes

AT

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GROUP  
**AUTANIA**  
INDUSTRIAL MANAGEMENT

25/11/EN\_kl\_25/09