



 **TOSHULIN**



MAIN APPLICATIONS

AIRCRAFT INDUSTRY

POWER INDUSTRY

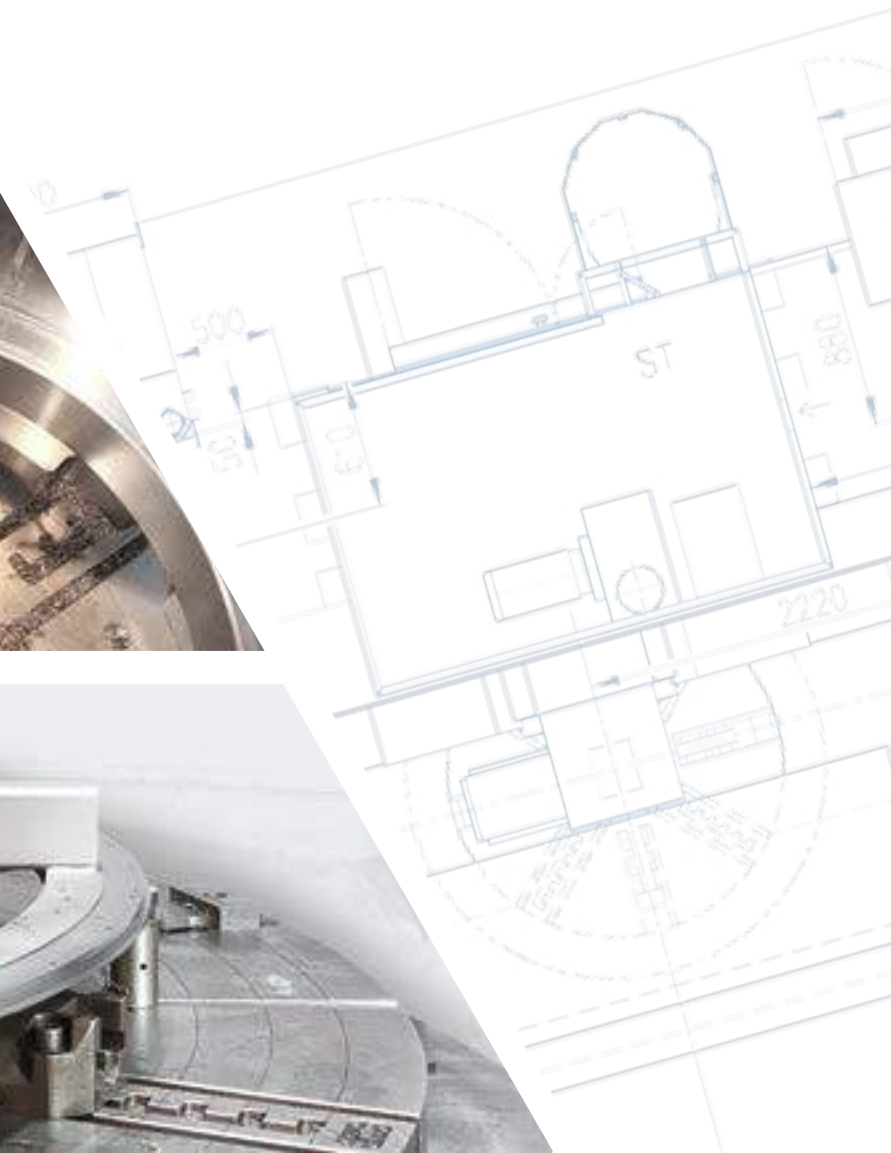
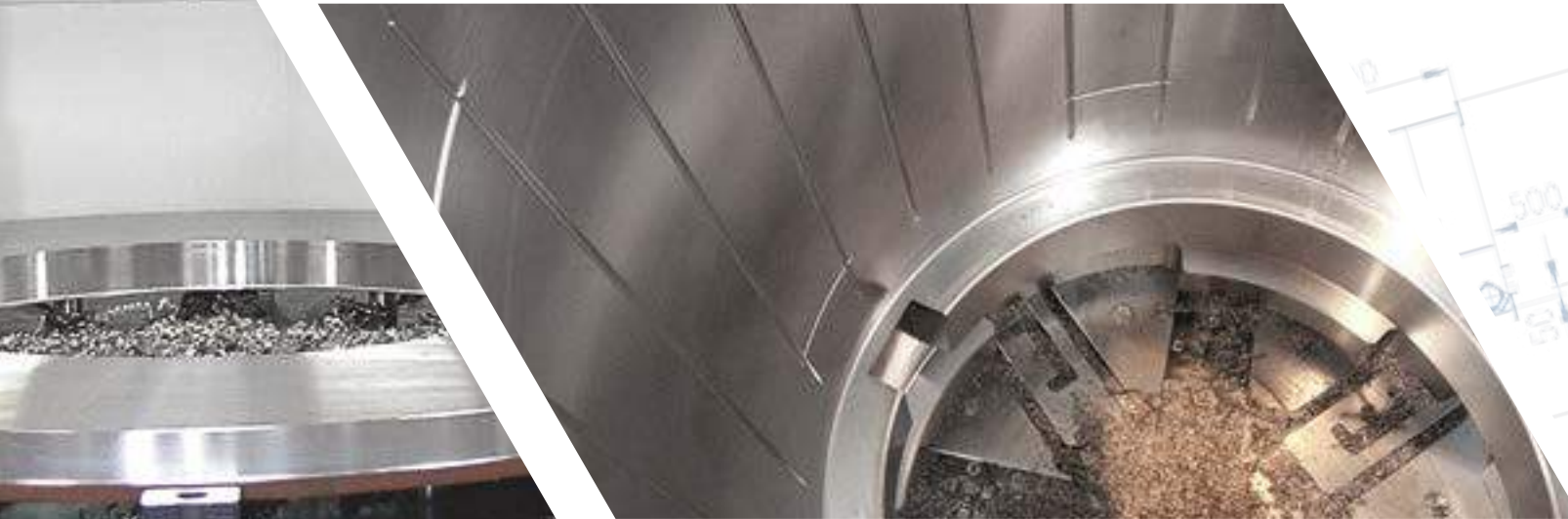
TRANSPORTATION INDUSTRY

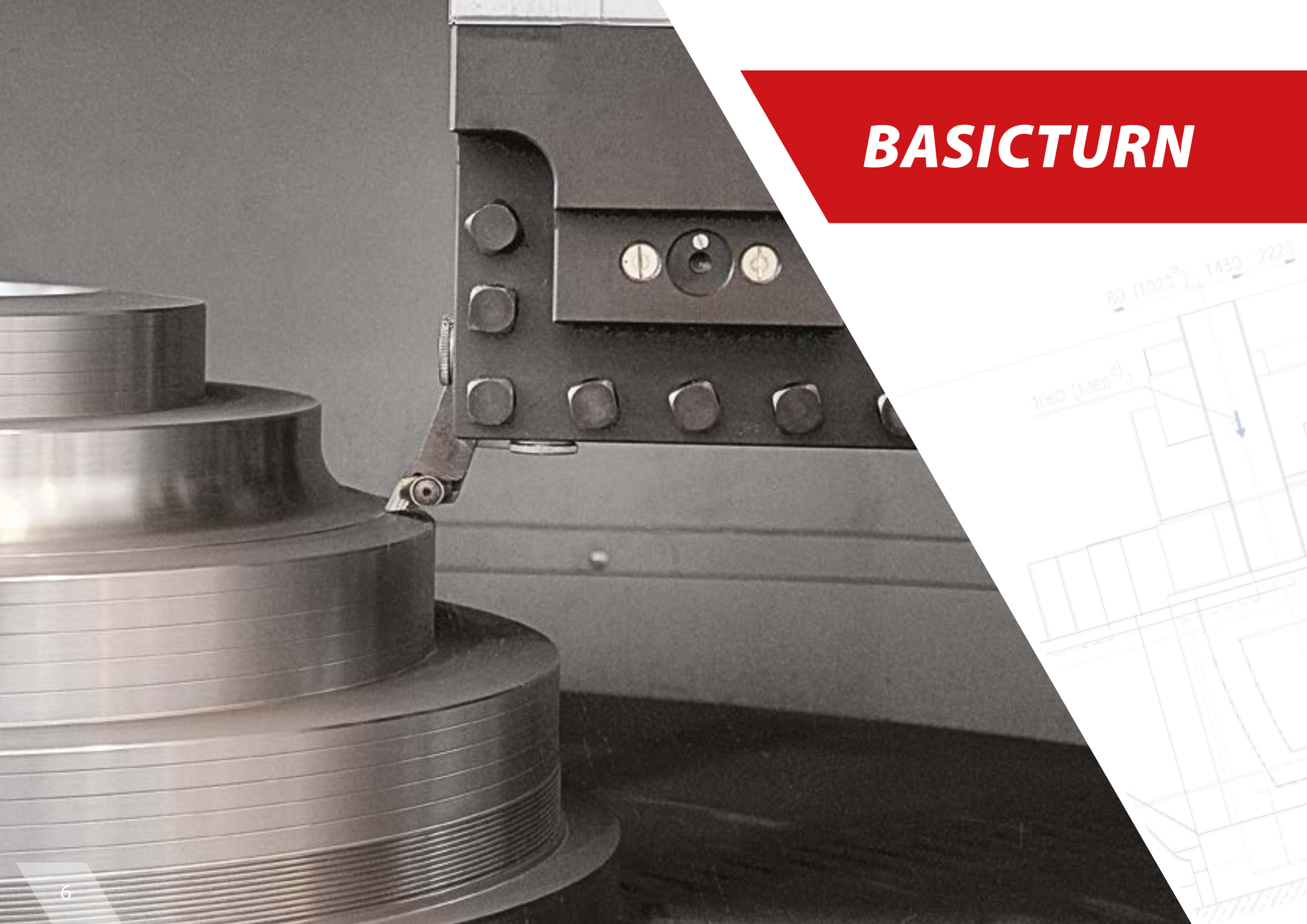
MINING AND CHEMICAL INDUSTRY

GENERAL INDUSTRY



BASIC TECHNICAL PARAMETERS





BASICTURN



TOOL MAGAZINE

BASICTURN 1

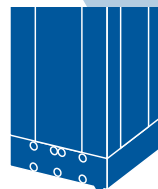
AUTOMATIC TOOL EXCHANGE



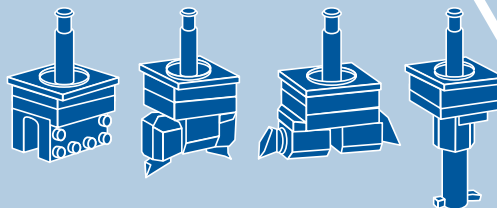
Magazine
with 17 places



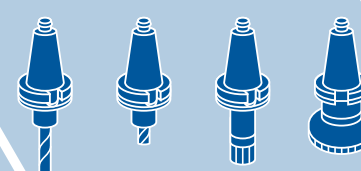
Magazine
with 30 places



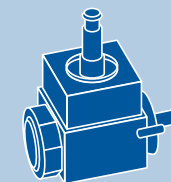
RAM



HOLDERS FOR TURNING TOOLS



MODULAR ROTARY TOOLS



HOLDERS
FOR ROTARY
TOOLS

BASICTURN 1*

WORKING RANGE		1250	1600	2000	2500	3000	4000
Maximum workpiece diameter	mm	1400	2000	2300	2900	3600	5000
Maximum workpiece height	mm	1400 (1900)	1500 (2000)		1940 (2540)		1880 (2480)
Maximum workpiece weight	kg	8000	12000	20000	25000		
TABLE							
Table diameter	mm	1250	1600	2000	2500	3000	4000
Main motor power output	kW	44 (58) / 45 (60)	58 (81) / 60 (75)				
Table speed (RPM) available	rpm	400 (500, 630)	315 (400)	250 (315)	200 (250)	200	150
RAIL HEAD							
Rail-head section	mm	200 × 240					
Ram working stroke (Z-axis)	mm	1060 (1360)				1360	
AUTOMATIC TOOL EXCHANGE							
Tool magazine capacity		17 (9+8) / 30 (6+24)					
ROTARY TOOL DRIVE							
Motor power output	kW	22					
Maximum speed of rotary tools	rpm	3000					
BASIC MACHINE SIZE**		1250	1600	2000	2500	3000	4000
Length	mm	7200	7800	8200	8900	9600	11600
Depth	mm	4500	4400	4600	5600	5900	6700
Height	mm	5600	5700	5700	6600	6600	6600

*Specifications subject to change without notice

** Can be different according to concrete specification

TOOL MAGAZINE



Magazine
with 9 places

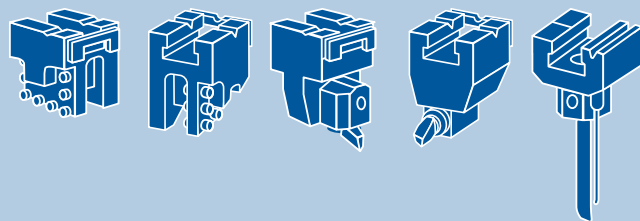


Magazine
with 12 places

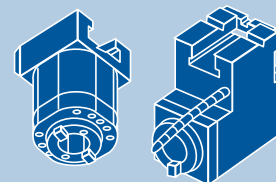


RAM

BASICTURN 2



HOLDERS FOR TURNING TOOLS



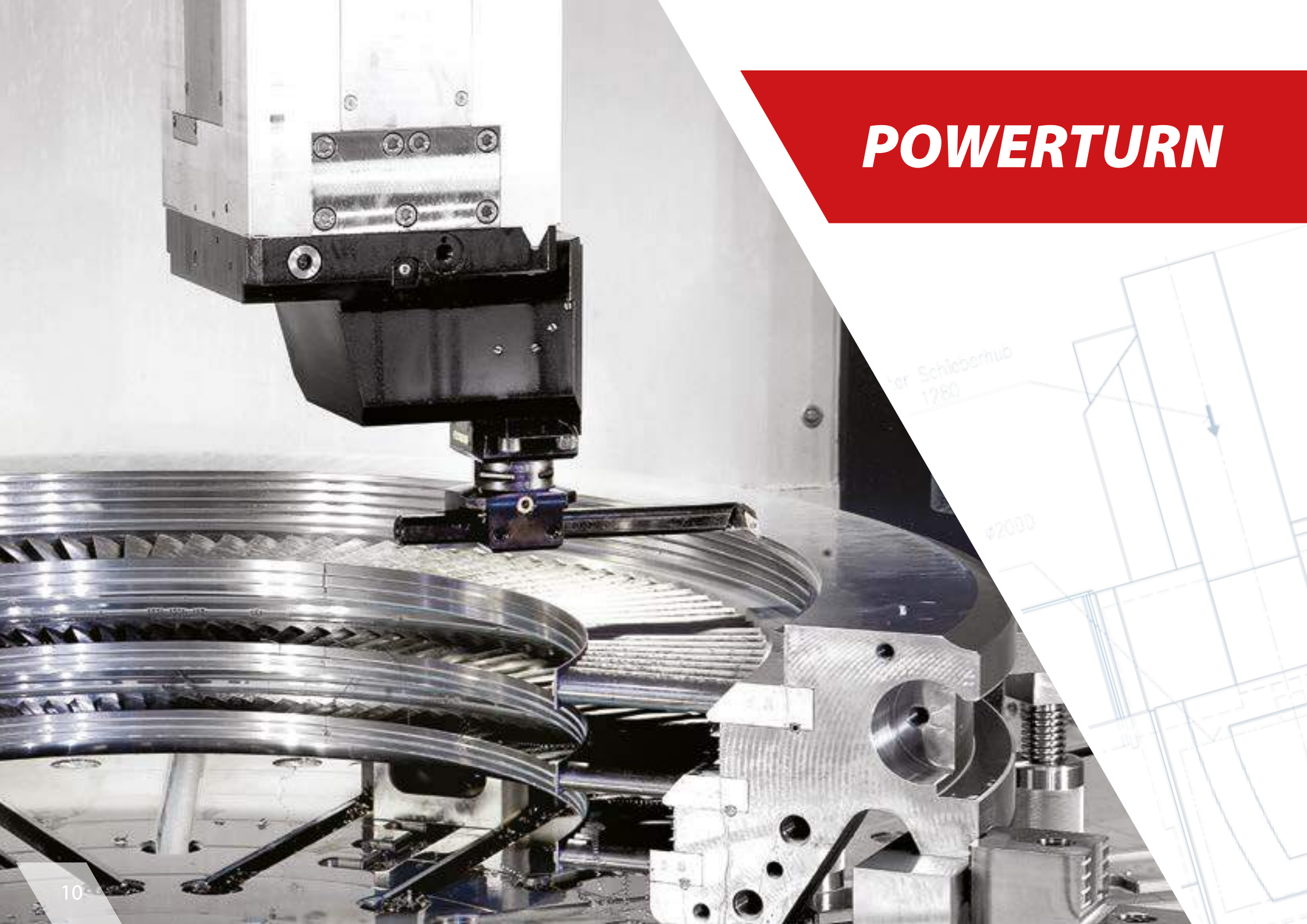
HOLDERS FOR ROTARY TOOLS

BASICTURN 2*

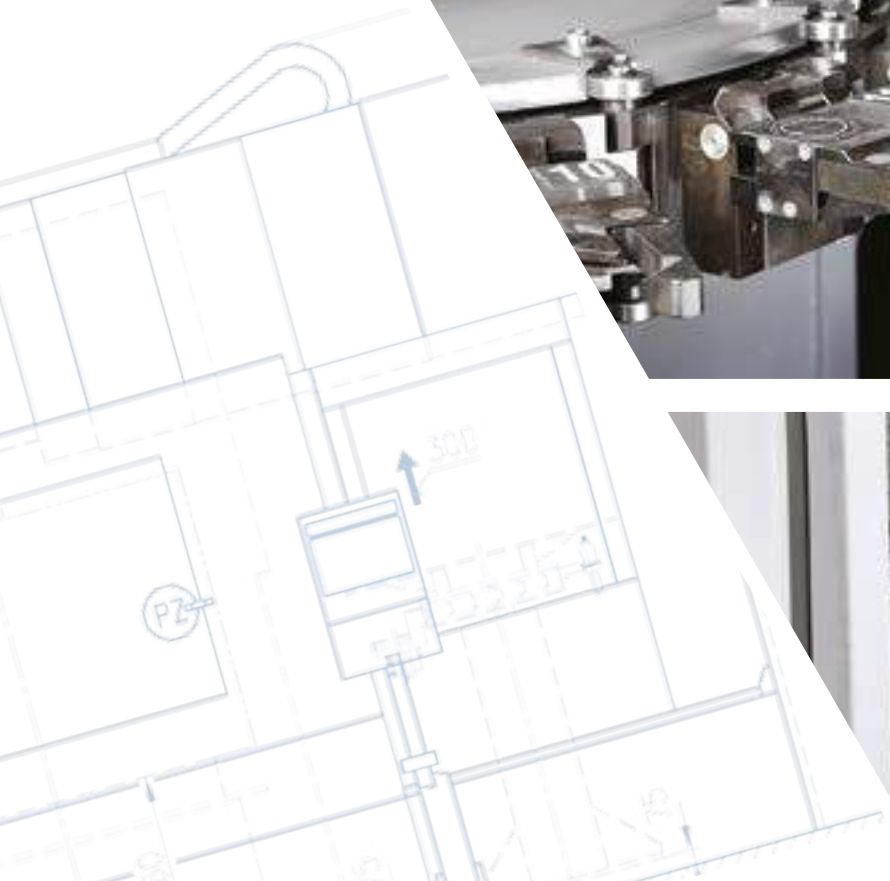
WORKING RANGE		1250	1600	2000	2500	3000	4000
Maximum workpiece diameter	mm	1400	2000	2300	2900	3600	5000
Maximum workpiece height	mm	1400 (1900)	1500 (2000)		1940 (2540)		1880 (2480)
Maximum workpiece weight	kg	8000	12000	20000	25000		
TABLE							
Table diameter	mm	1250	1600	2000	2500	3000	4000
Main motor power output	kW	44 (58) / 45 (60)	58 (81) / 60 (75)				
Table speed (RPM) available	rpm	400 (500, 630)	315 (400)	250 (315)	200 (250)	200	150
RAIL HEAD							
Rail-head section	mm	200 × 240					
Ram working stroke (Z-axis)	mm	1060 (1360)				1360	
AUTOMATIC TOOL EXCHANGE							
Tool magazine capacity		9 (12)					
ROTARY TOOL DRIVE							
Motor power output	kW	22					
Maximum speed of rotary tools	rpm	3000					
BASIC MACHINE SIZE**		1250	1600	2000	2500	3000	4000
Length	mm	7200	7800	8200	8900	9600	11600
Depth	mm	4500	4400	4600	5600	5900	6700
Height	mm	5600	5700	5700	6400	6400	6400

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POWERTURN



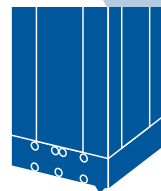
TOOL MAGAZINE



Chain-style tool magazine

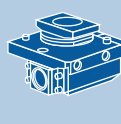
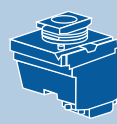
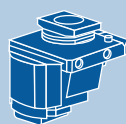


Disc tool magazine



RAM

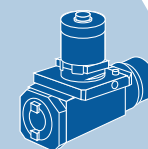
POWERTURN 1



ADAPTERS FOR TURNING TOOLS



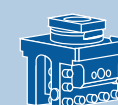
MODULAR TURNING TOOLS



ADAPTERS FOR ROTARY TOOLS



MODULAR ROTARY TOOLS



HOLDERS

POWERTURN 1*

WORKING RANGE		800	1000	1250	1600	2000	2500	3000	4000	5000
Maximum workpiece diameter	mm	1000	1200	1400 (1500)	2000	2300	2900	3600	5000	5800
Maximum workpiece height	mm	1400	1400	1300 (1800)	1400 (1900, 2100, 2500)			1840 (2440, 3140)		1780 (2380, 3080)
Maximum workpiece weight	kg	5000	8000	8000	12000	20000	25000	30000		
TABLE										
Table diameter	mm	800	1000	1250	1600	2000	2500	3000	4000	5000
Main motor power output	kW				44 (58) / 45 (60)	58 (81) / 60 (75)			81 (105); 2x44 (2x58) / 60 (75); 2x45 (2x60)	
		2x22 (2x31) / 2x22 (2x30)				2x31 (2x44) / 2x30 (2x45)				
Table speed (RPM) available	rpm	630 (800,1000)	500 (630,800)	400 (500,630)	315 (400)	250 (315)	200 (250)	200	150	125
RAIL HEAD										
Rail-head section	mm	240x240								
Ram working stroke (Z-axis)	mm	1280	1280 (1500)				1500			
AUTOMATIC TOOL EXCHANGE										
Tool magazine capacity		6+40/ 45 (60,75,76,95,96)								
ROTARY TOOL DRIVE										
Motor power output	kW	22 (31, 37) / 22 (30, 37)								
Maximum speed of rotary tools	rpm	3000 (4500)								
BASIC MACHINE SIZE**										
Length	mm	8000	8000	7900	8500	8900	8800	9600	11700	12700
Depth	mm	4300	4300	4600	4600	4800	6900	6900	7200	7700
Height	mm	6600	6600	5900	6000	6000	6900	6900	6900	6900

*Specifications subject to change without notice

** Can be different according to concrete specification

TOOL MAGAZINE



Chain-style tool magazine

POWERTURN 2

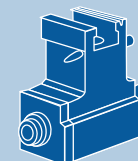


RAM



HOLDERS FOR TURNING TOOLS

AUTOMATIC TOOL EXCHANGE



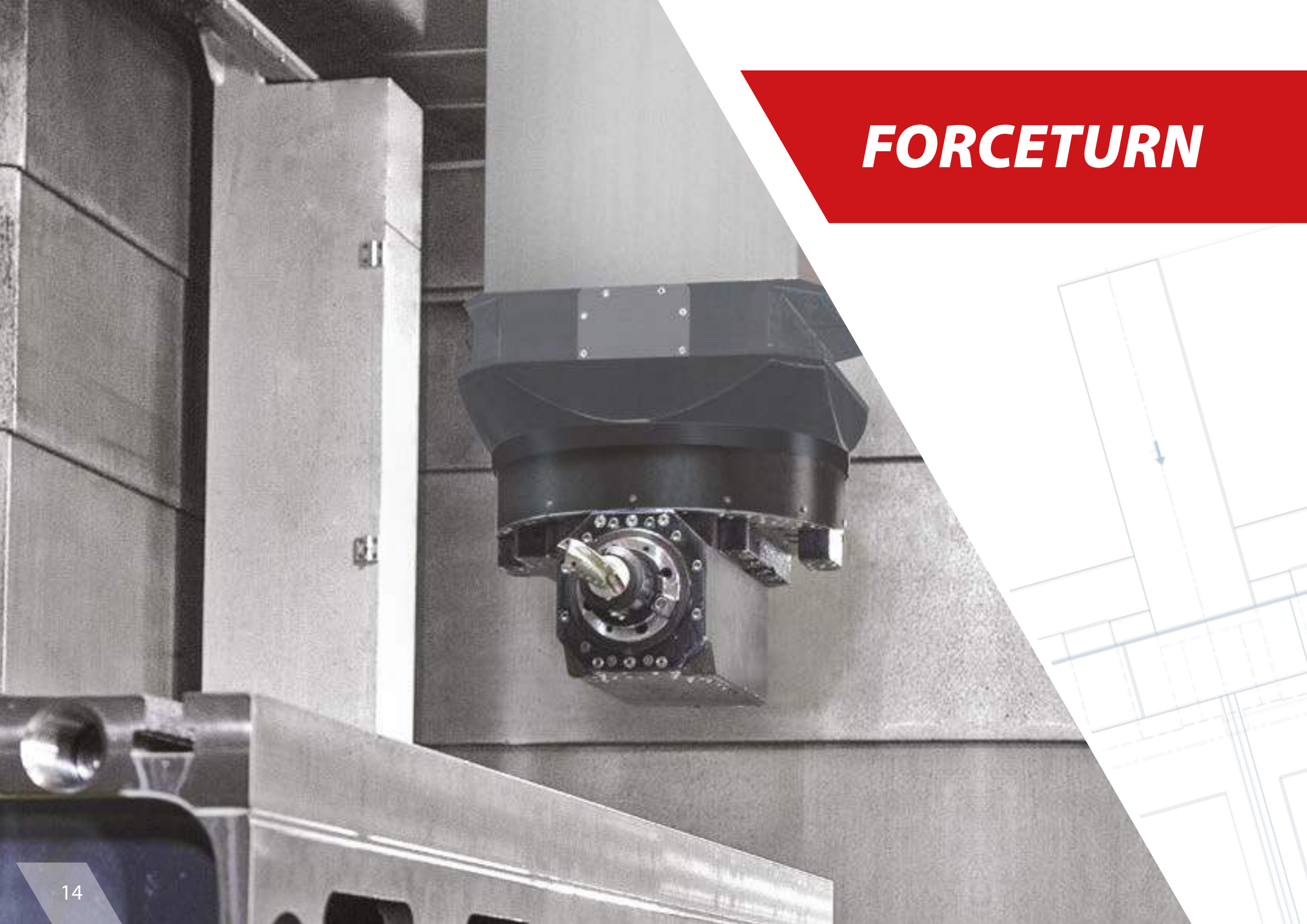
HOLDERS FOR ROTARY TOOLS

POWERTURN 2*

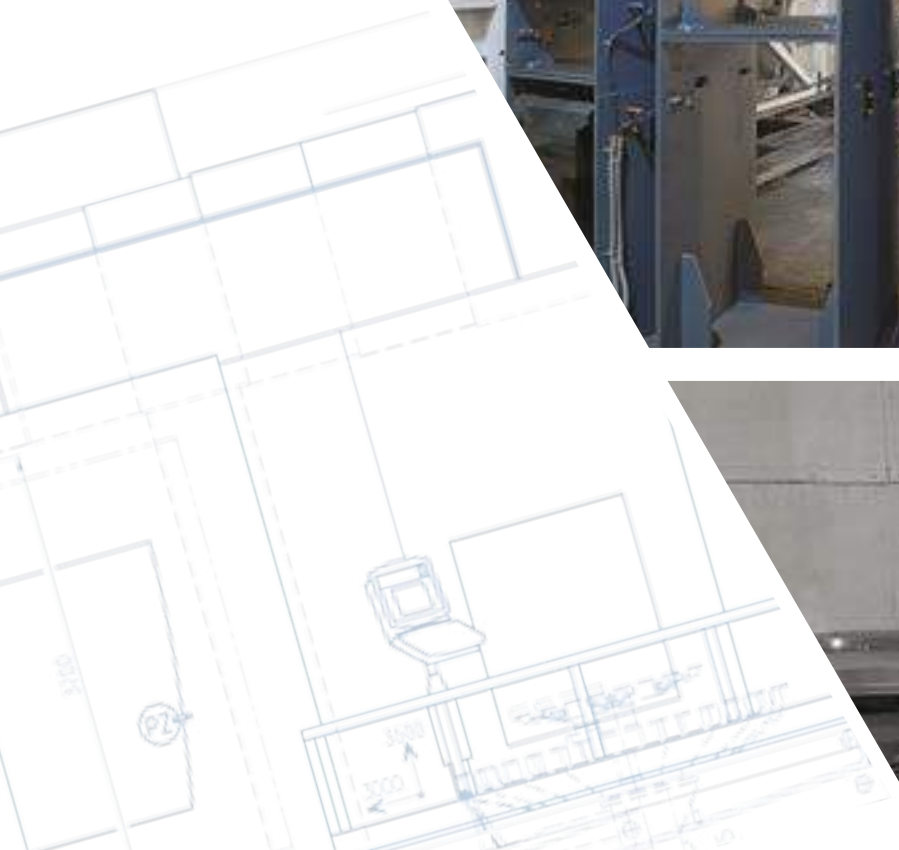
WORKING RANGE		800	1000	1250	1600	2000	2500	3000	4000	5000
Maximum workpiece diameter	mm	1000	1400	1400	2000	2300	2900	3600	5000	5800
Maximum workpiece height	mm	1300	1300 (1800)		1400 (1900, 2100, 2500)		1840 (2440, 3140)		1780 (2380, 3080)	
Maximum workpiece weight	kg	4000	6500	8000	12000	20000	25000	30000		
TABLE										
Table diameter	mm	800	1000	1250	1600	2000	2500	3000	4000	5000
Main motor power output	kW	44(58) / 45 (60)			58 (81) / 60 (75)			81 (105)/60 (75)		
Table speed (RPM) available	rpm	400 (500, 630)			315 (400)	250(315)	200 (250)	200	150	125
RAIL HEAD										
Rail-head section	mm	240x240								
Ram working stroke (Z-axis)	mm	1280	1280 (1500)				1500			
AUTOMATIC TOOL EXCHANGE										
Tool magazine capacity		20 (30)								
ROTARY TOOL DRIVE										
Motor power output	kW	22 (31, 37) / 22 (30, 37)								
Maximum speed of rotary tools	rpm	3000 (4000)								
BASIC MACHINE SIZE**										
Length	mm	7900	7900	7900	7900	8400	8700	9600	11700	12700
Depth	mm	6100	6100	6100	6100	6200	6700	6700	7500	8000
Height	mm	5900	5900	5900	6000	6000	6900	6900	6900	6900

*Specifications subject to change without notice

** Can be different according to concrete specification



FORCETURN



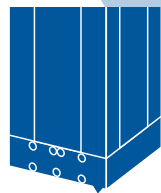
TOOL MAGAZINE



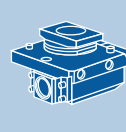
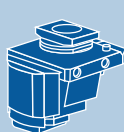
Two-level disc tool magazine
6+40 places



Rack magazine



RAM



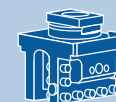
ADAPTERS FOR TURNING TOOLS



MODULAR TURNING TOOLS



MODULAR ROTARY TOOLS



HOLDERS

FORCETURN*

WORKING RANGE		2500	3000	4000	5000	6000
Maximum workpiece diameter	mm	2900	3600	5000	6300	7300
Maximum workpiece height	mm	2500 (3500, 4000)		2500 (3500, 4000, 5000)		
Maximum workpiece weight	kg	30000 (45000)		40000 (60000)	50000 (80000)	50000 (100000)
TABLE						
Table diameter	mm	2500	3000	4000	5000	6000
Main motor power output	kW	2x58 (2x71) /2x60 (2x75)		2x58 (2x71, 2x105) / 2x60 (2x75, 2x100)		
Table speed (RPM) available	rpm	200 (250)	200	125 (150)	100 (125)	80 (100)
RAIL HEAD						
Rail-head section	mm	320 x 320 (400 x 400)				
Ram working stroke (Z-axis)	mm	2000 (2500)				
AUTOMATIC TOOL EXCHANGE						
Tool magazine capacity		6+40 / 6 (8) +40 (60, 82, 124) / 10 (12) + 40 (60, 82, 124)				
ROTARY TOOL DRIVE						
Motor power output	kW	31 (51); 37,7*** (26) *** / 30 (45); 33*** (25) ***				
Maximum speed of rotary tools	rpm	3000 (5000***, 8000***)				
BASIC MACHINE SIZE**						
Length	mm	12200	12700	13300	14900	16500
Depth	mm	7600	7600	8200	8700	9200
Height	mm	8900	8900	8900	8900	8900

*Specifications subject to change without notice

** Can be different according to concrete specification

*** Only for rail-head section 400x400 mm





EXPERTURN



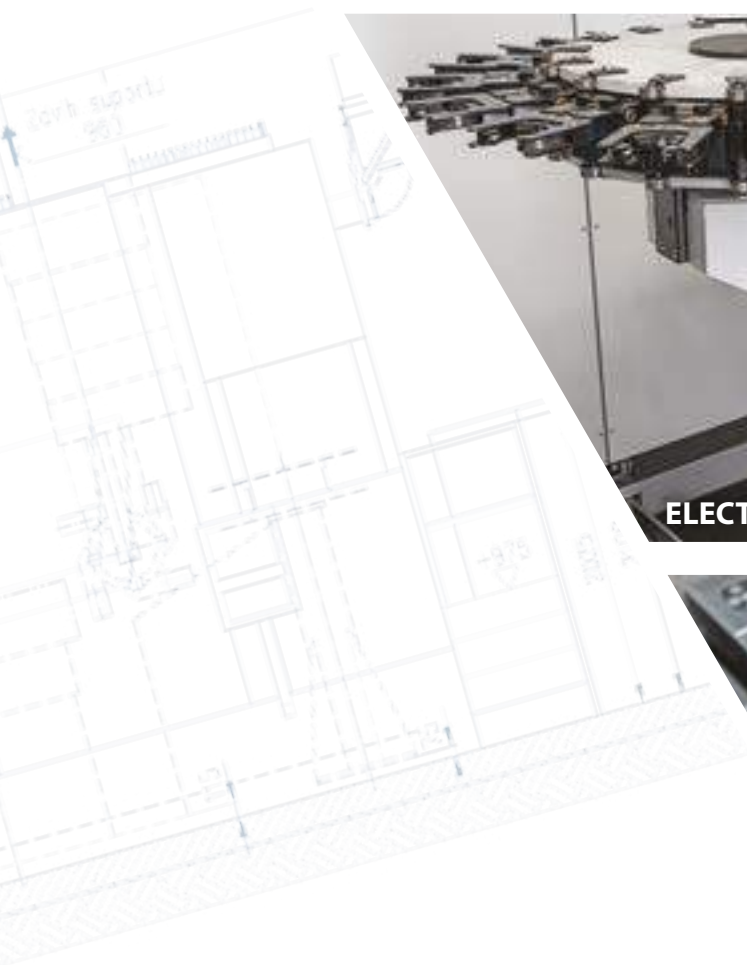
RAILWAY WHEEL MACHINING



SPECIAL TOOLS



ELECTRO SPINDLE HEAD



SPECIAL MILLING HEAD



MULTITASKING HEADSTOCK

MAGNETIC TABLE

DIVIDING OF RINGS

UHPC



EQUIPMENT POSSIBILITIES



C-HEAD

A photograph showing a C-head configuration of a machine tool. The head is mounted on a large, heavy-duty metal base with a series of vertical slots. A vertical spindle is visible, and the overall structure is robust and industrial.



FACING HEAD

A photograph of a facing head machine tool. It features a blue-painted metal body and a large, circular, multi-spoke wheel. A horizontal spindle is visible, and the machine is mounted on a sturdy frame.



B-HEAD

A photograph of a B-head machine tool. It shows a complex arrangement of metal components, including a large, cylindrical head and a series of smaller, stacked components. The machine is mounted on a heavy base.



Y-HEAD

A photograph of a Y-head machine tool. It features a black, cylindrical head with a circular, multi-spoke wheel. The machine is mounted on a sturdy frame, and a blue component is visible on the right side.

	BASICTURN	POWERTURN	EXPERTURN	FORCETURN
Table positioning (C-axis) and rotary tool drive	✓	✓	✓	✓
Working area height	✓	✓	✓	✓
Table types	✓	✓	✓	✓
Hydraulically lifted platforms		✓	✓	✓
Automatic pallet exchange system		✓	✓	
High pressure tool coolant (till 70 bar)		✓	✓	✓
Ultra high pressure coolant (up to 400 bar)			✓	
Automatic workpiece measuring	✓	✓	✓	✓
Automatic tool measuring	✓	✓	✓	✓
Second ram		✓	✓	✓
Tool conditioning check		✓	✓	✓
Special heads with additional axes		✓	✓	✓



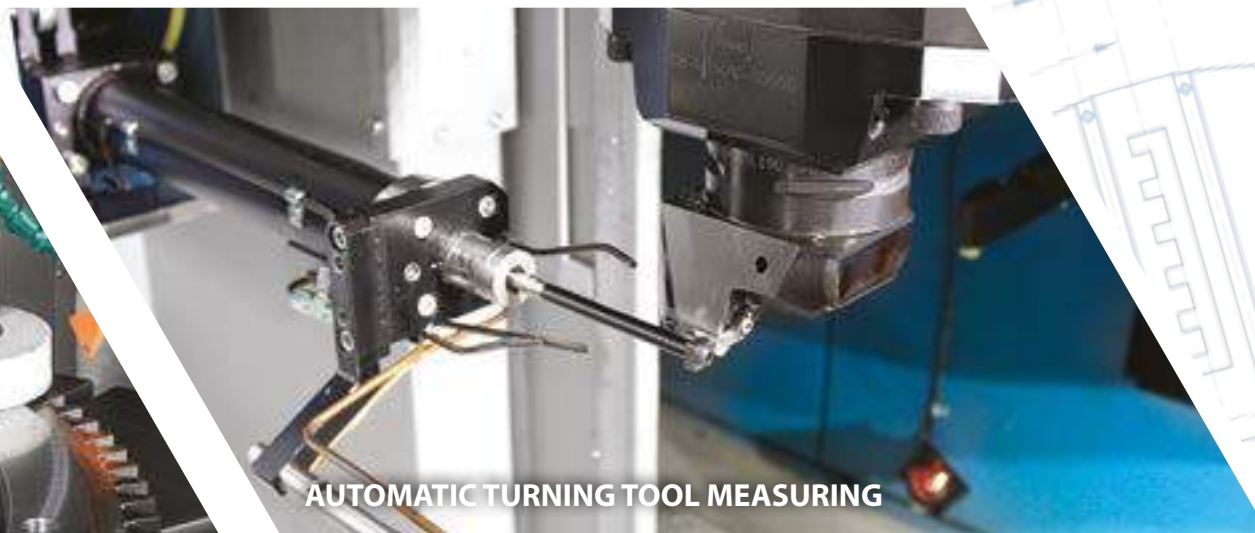
HYDRAULIC-MECHANICAL CHUCK



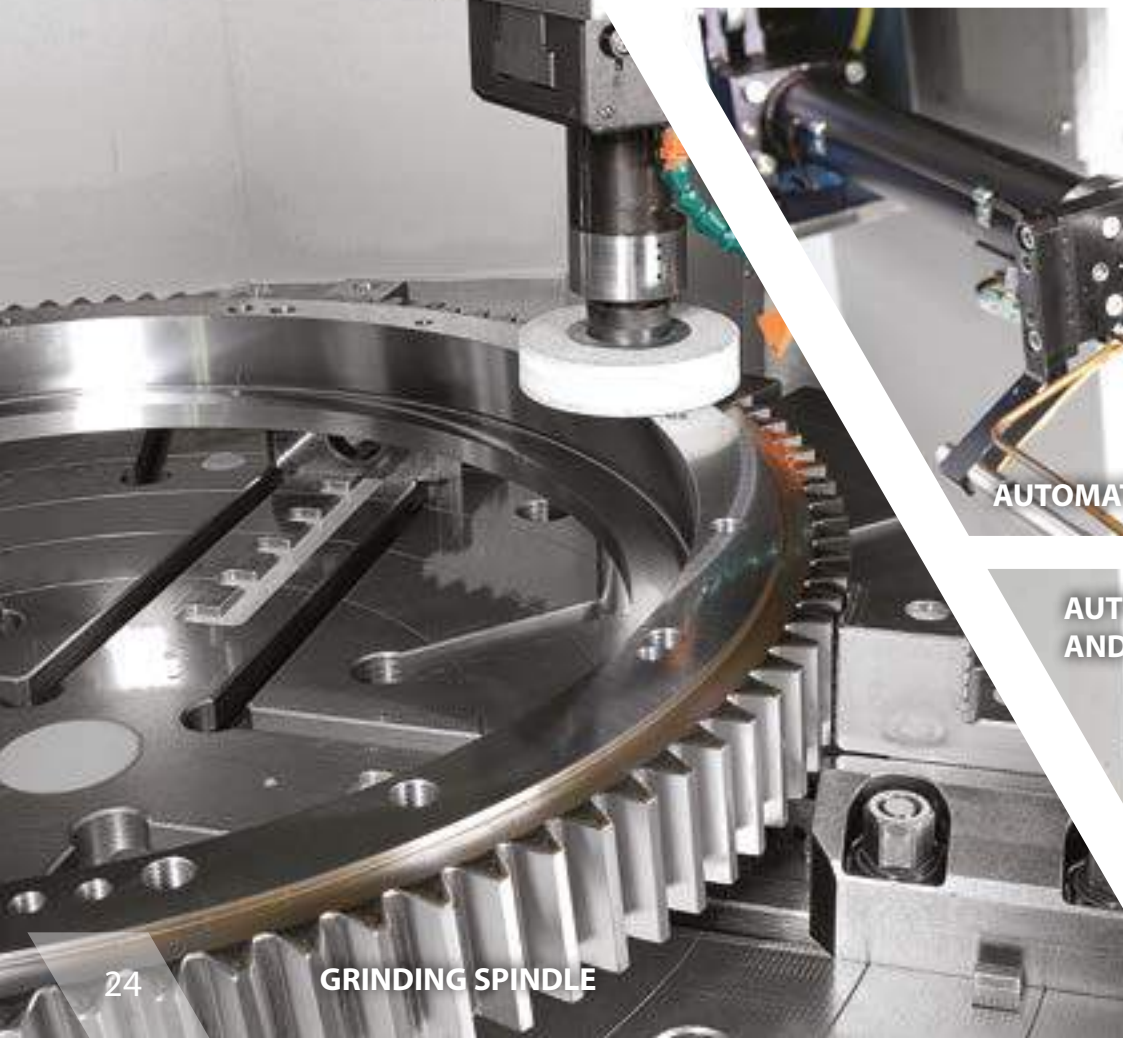
HAND OPERATED TABLE



AUTOMATIC WORKPIECE MEASURING



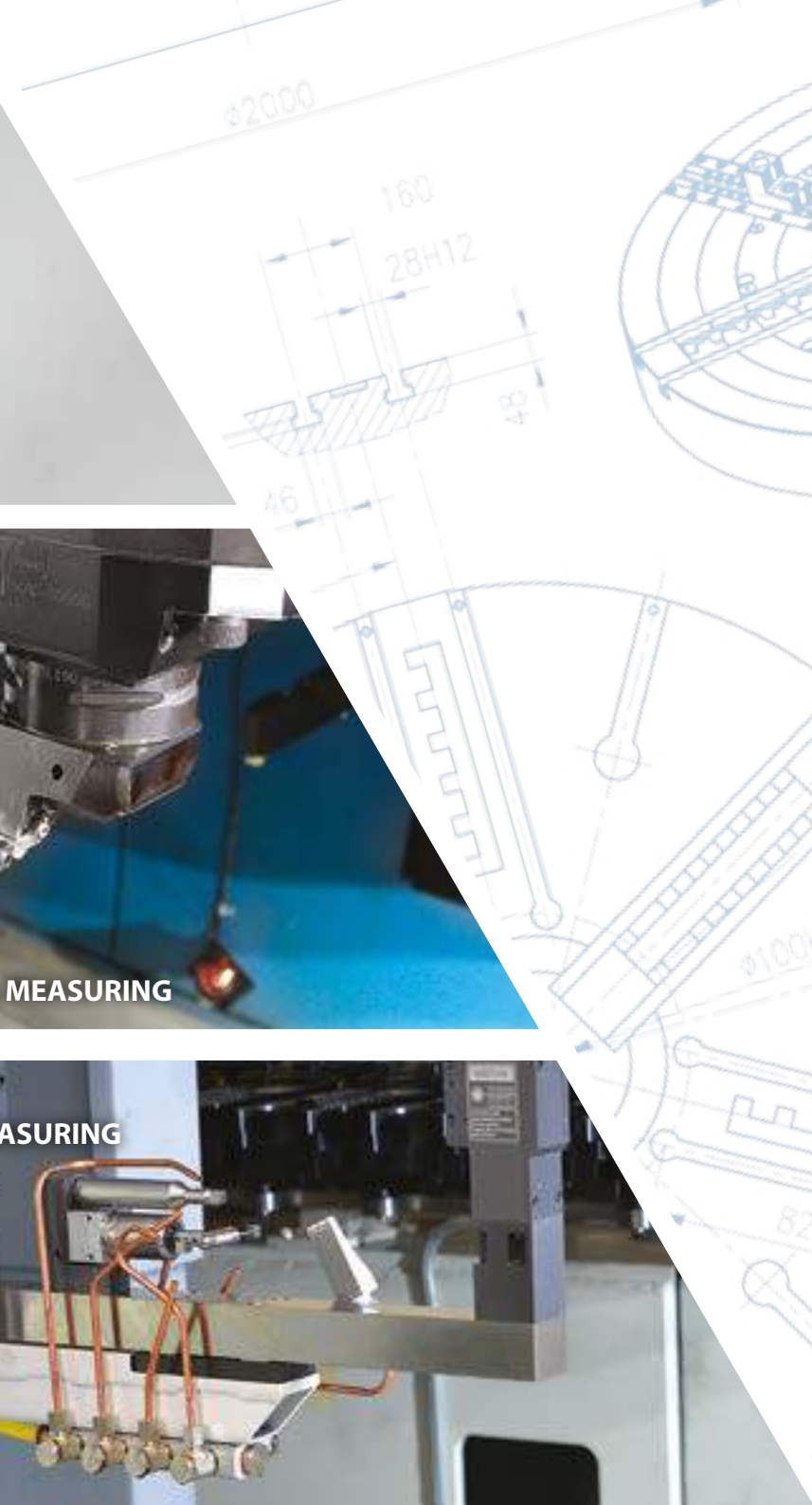
AUTOMATIC TURNING TOOL MEASURING



GRINDING SPINDLE



**AUTOMATIC TURNING
AND ROTARY TOOL MEASURING**

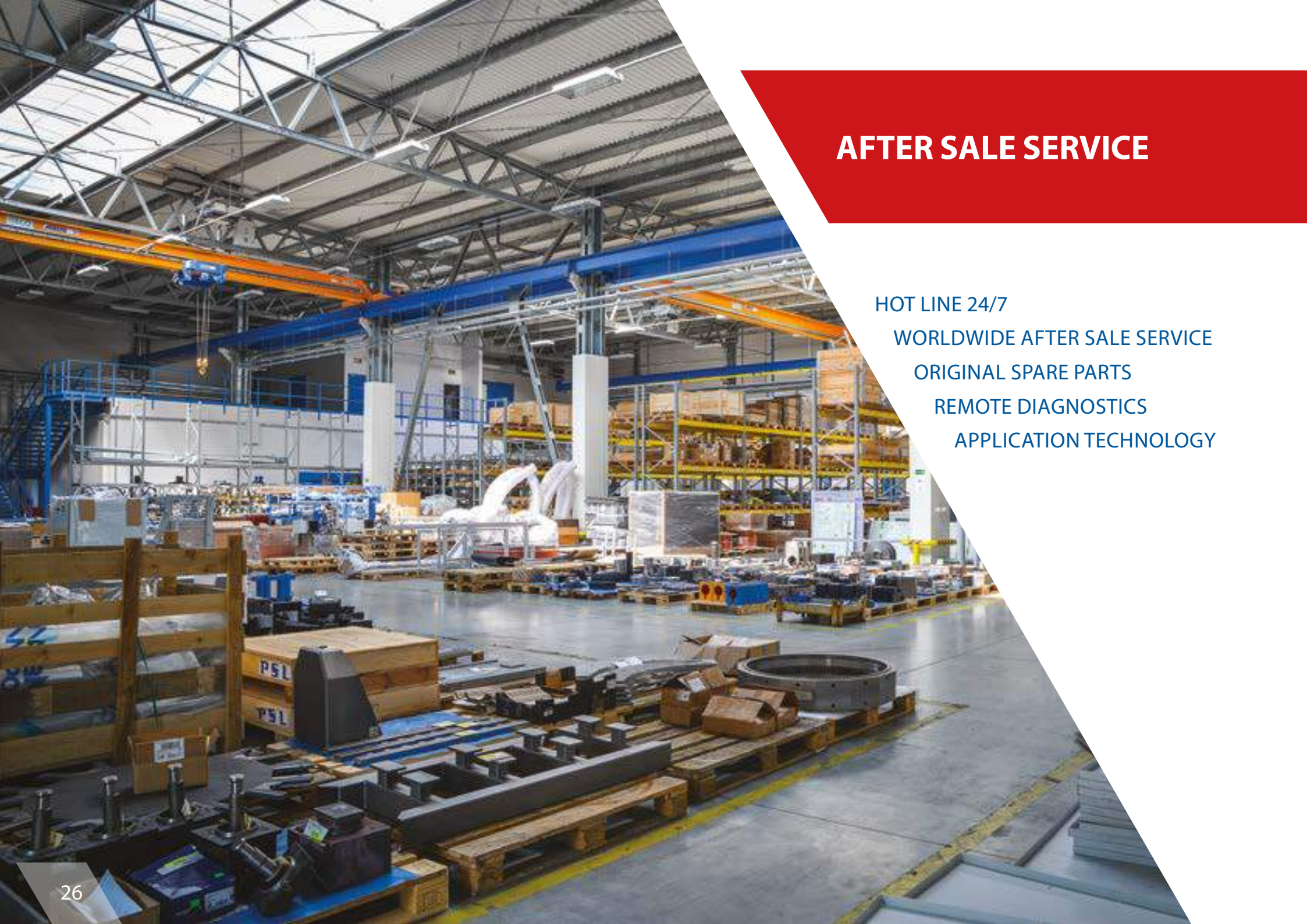


UHPC

SECOND RAM

AUTOMATIC PALLET EXCHANGE SYSTEM

CAMERA IN WORKING AREA



AFTER SALE SERVICE

HOT LINE 24/7

WORLDWIDE AFTER SALE SERVICE

ORIGINAL SPARE PARTS

REMOTE DIAGNOSTICS

APPLICATION TECHNOLOGY





EUROLA



MACHINE TOOLS

INTEGRAL SOLUTION

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