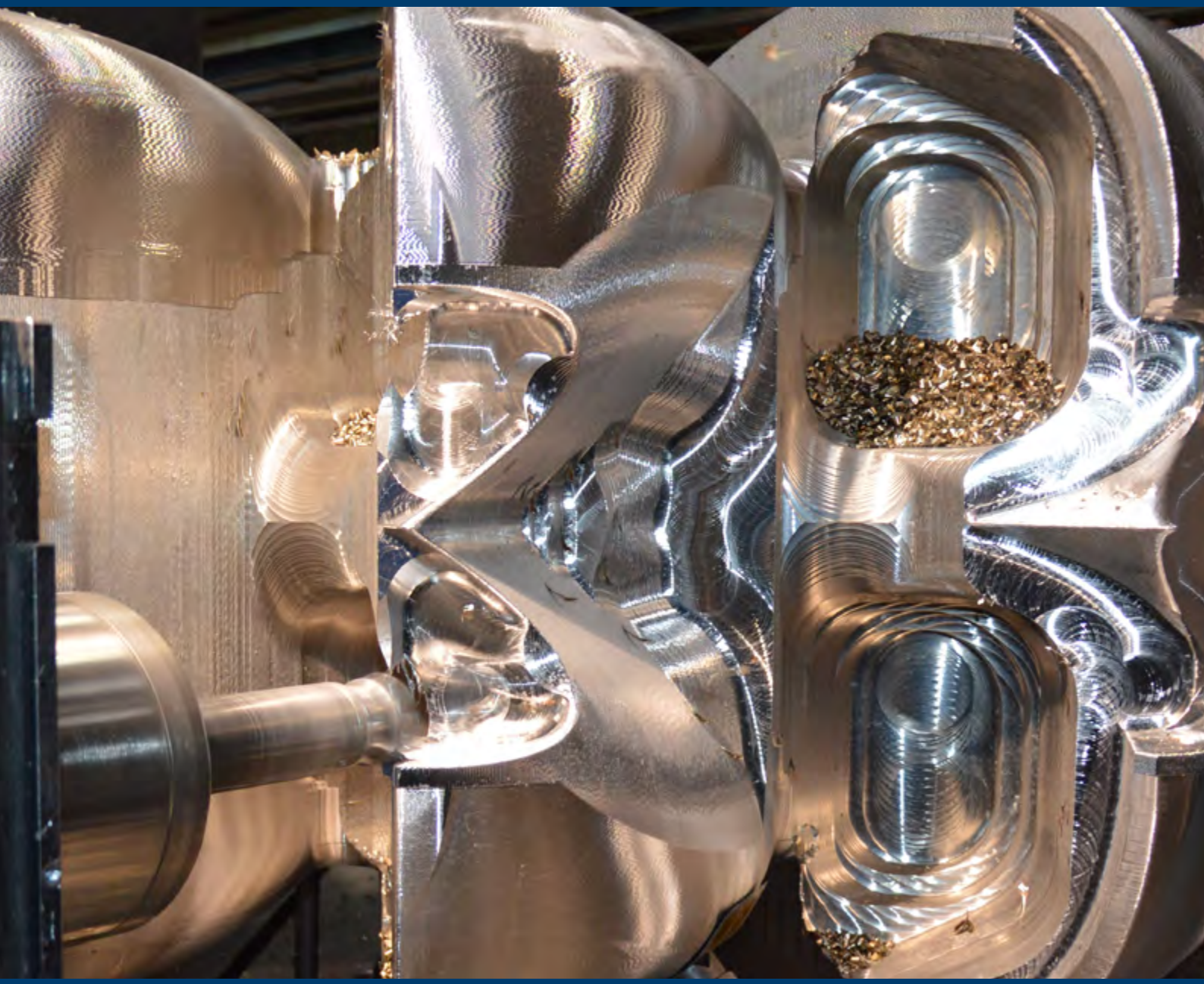
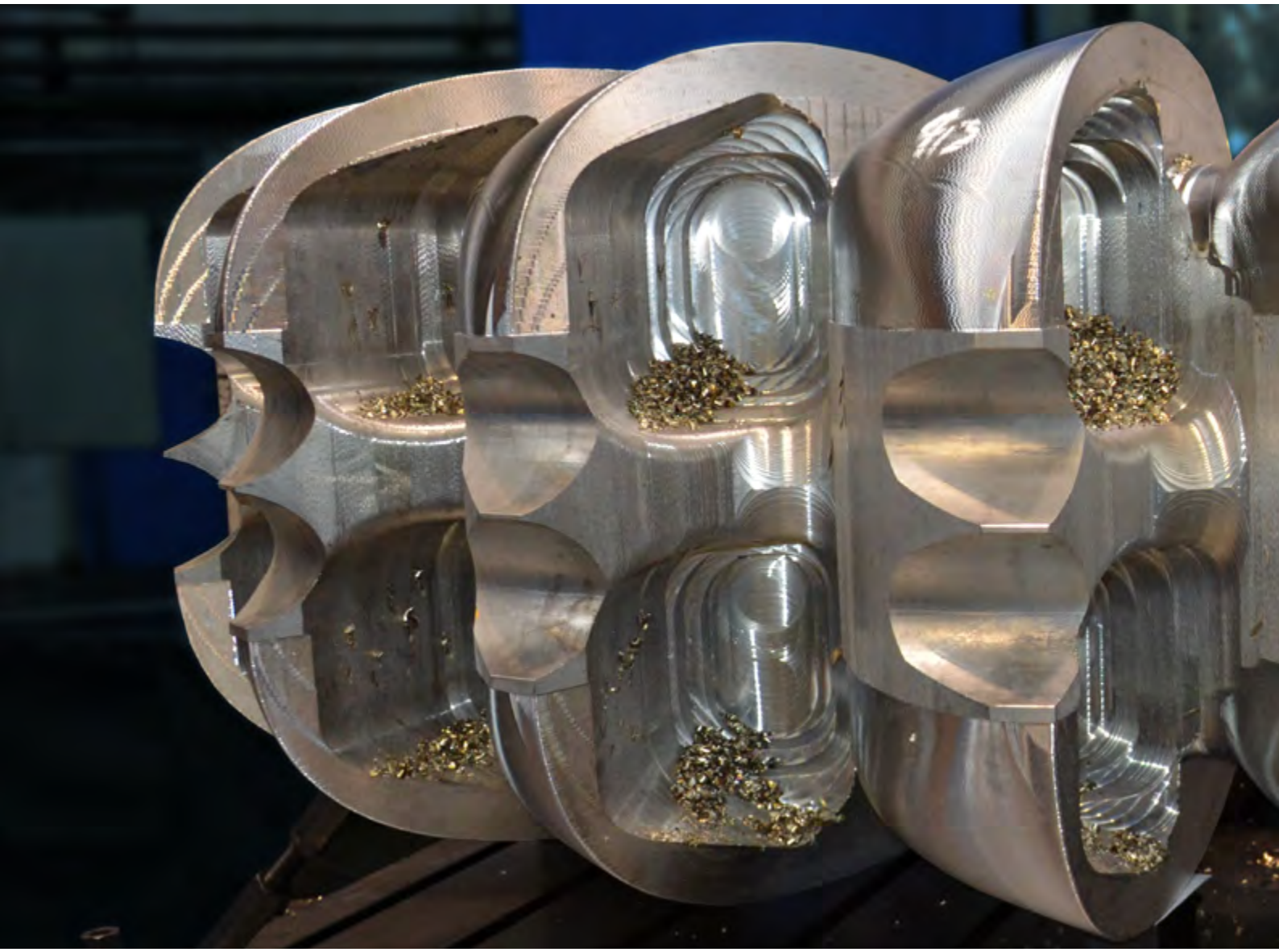
ŠKODA MACHINE TOOL



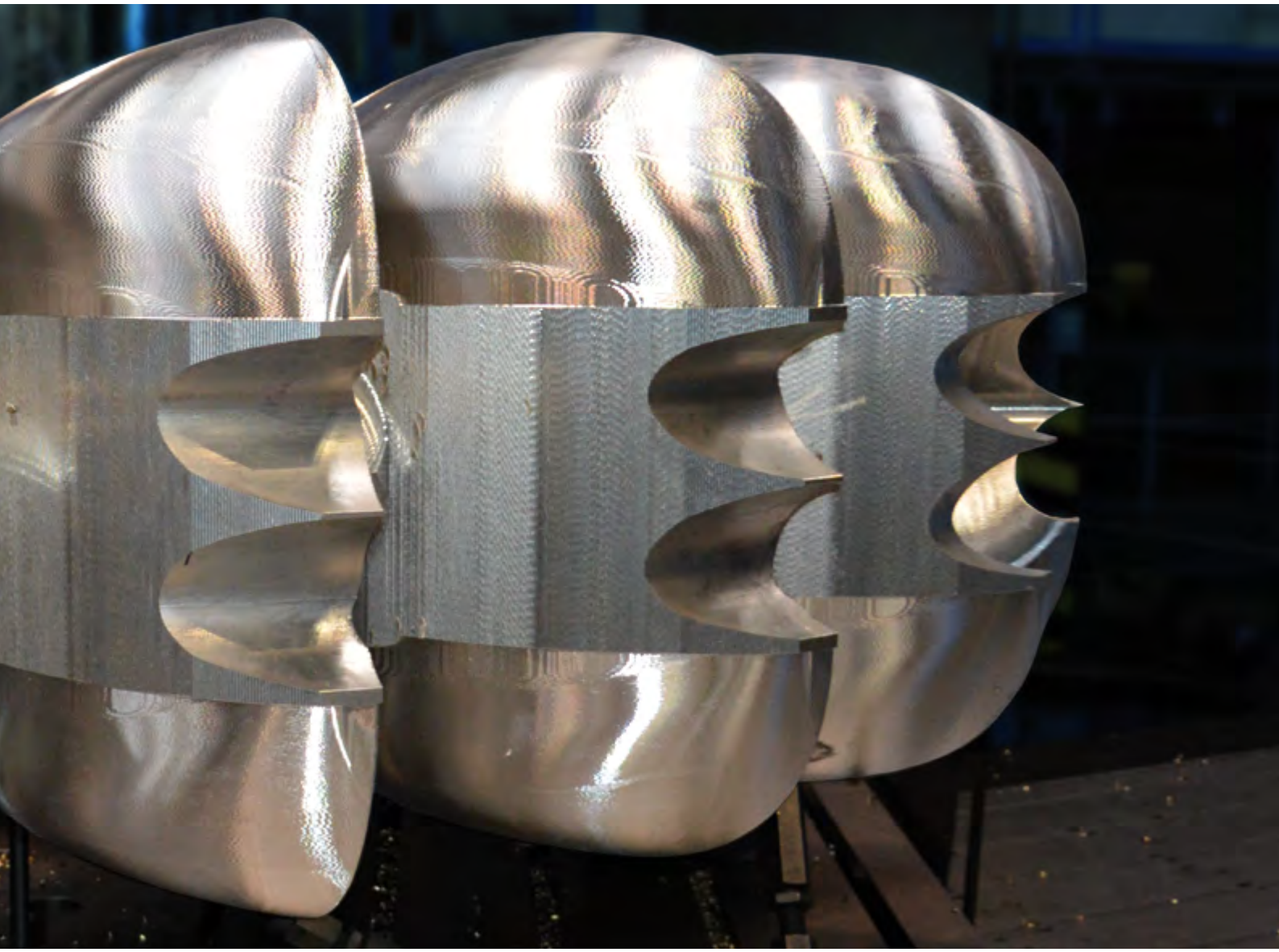
ŠKODA CATALOGUE

PRECISION WITH TRADITION

EDITORIAL



ŠKODA MACHINE TOOL



Dear customer,

our vision is continuous development of a modern ŠKODA company that has an expanding network of stable customers and is proud of its employees and provided products.

On the following pages you will find an overview of all our current heavy duty horizontal boring and milling machines and horizontal lathes as a result of our more than 100-year-old expertise and development. Our machines are traditionally renowned for their precision connected with up-to-date modern technologies.

Precision with tradition. This is what you get from Plzeň, the historical town of beer and Škoda factories in the heart of Europe.

PRODUCT LINES

MACHINE ACCESSORIES

- Special accessories
- Robotic tool changers
- Automatic tool changers
- Milling and facing heads

APPLICATION TECHNOLOGIES & ENGINEERING

- 3D simulations
- Industry 4.0
- Teamcenter
- Turn-key supply of the machine
- Case and time studies

MODERNIZATION

- Modernization and overhauling
- Vibrodiagnostics
- ŠKODA monitoring system
- Service

ŠKODA MACHINE TOOL

ALMOST 4 000 MACHINES SOLD WORLDWIDE!

POWER GENERATION

- Nuclear power plant components
- Coal & gas power plant components
- Hydro power plants components
- Wind power components
- Heat exchangers

SHIPBUILDING

- Diesel engine blocks
- Crankshafts (two & four stroke)
- Gearboxes
- Propeller shafts
- Propeller blades

OIL & GAS

- Valves
- Vessels (Storage tanks)
- Offshore platform components
- Pipes

FIELDS OF APPLICATION

TRANSPORTATION

- Bogie frames & chassis
- Engine blocks
- Airplane landing gears
- Forms for automotive

EARTH MOVING EQUIPMENT

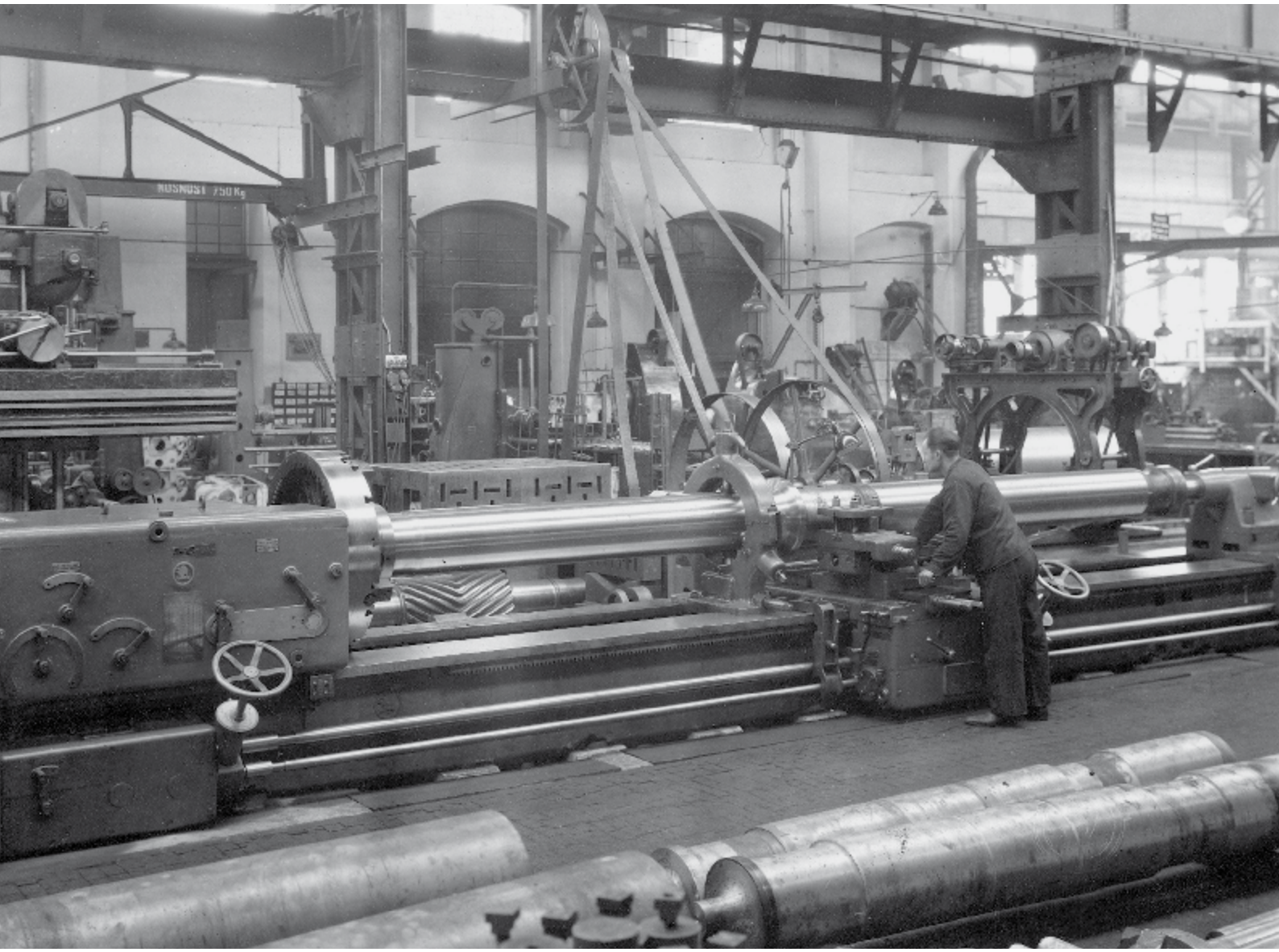
- Mining excavators' components
- Cranes & conveyors' components
- Heavy trucks components
- Ore crushers' components

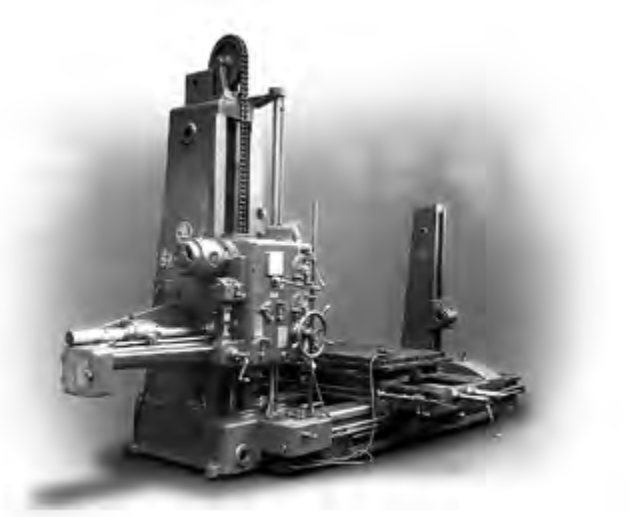
GENERAL MACHINING

- Presses' components
- Forging & foundry shops' components
- Large size gears
- Large size components of general shape

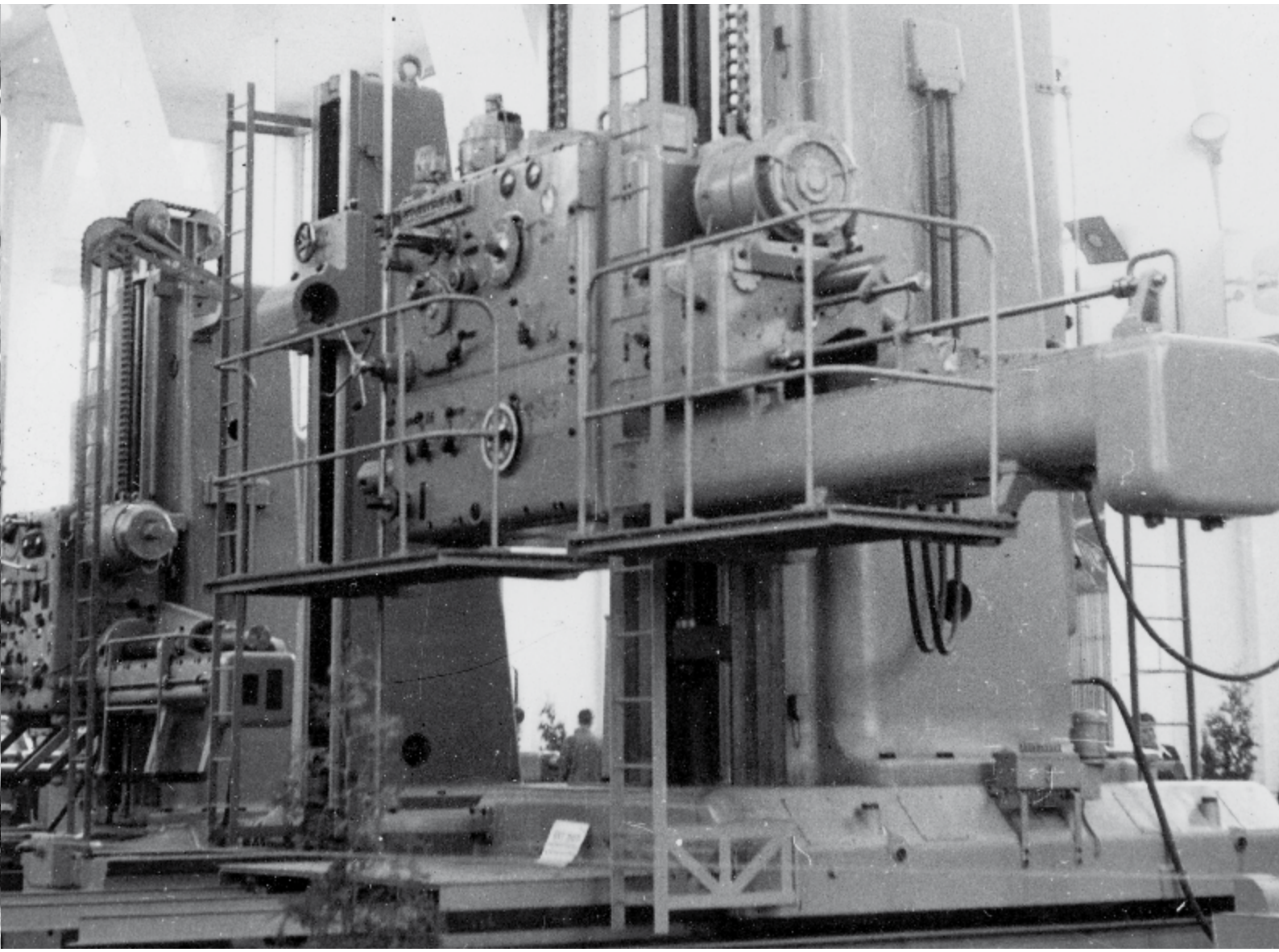
… AND MUCH MORE

ŠKODA MACHINE TOOL





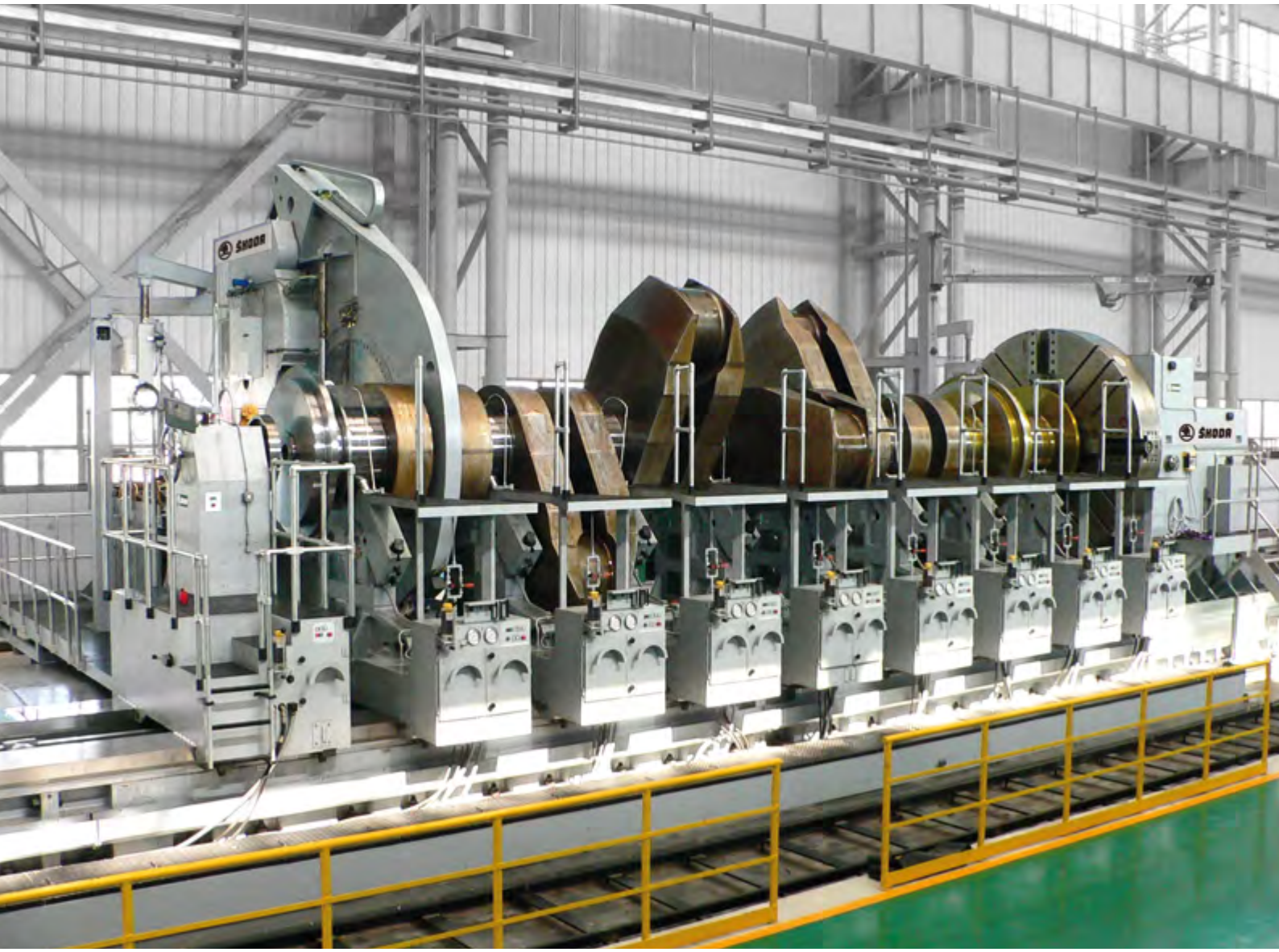
100+ YEARS OF TRADITION

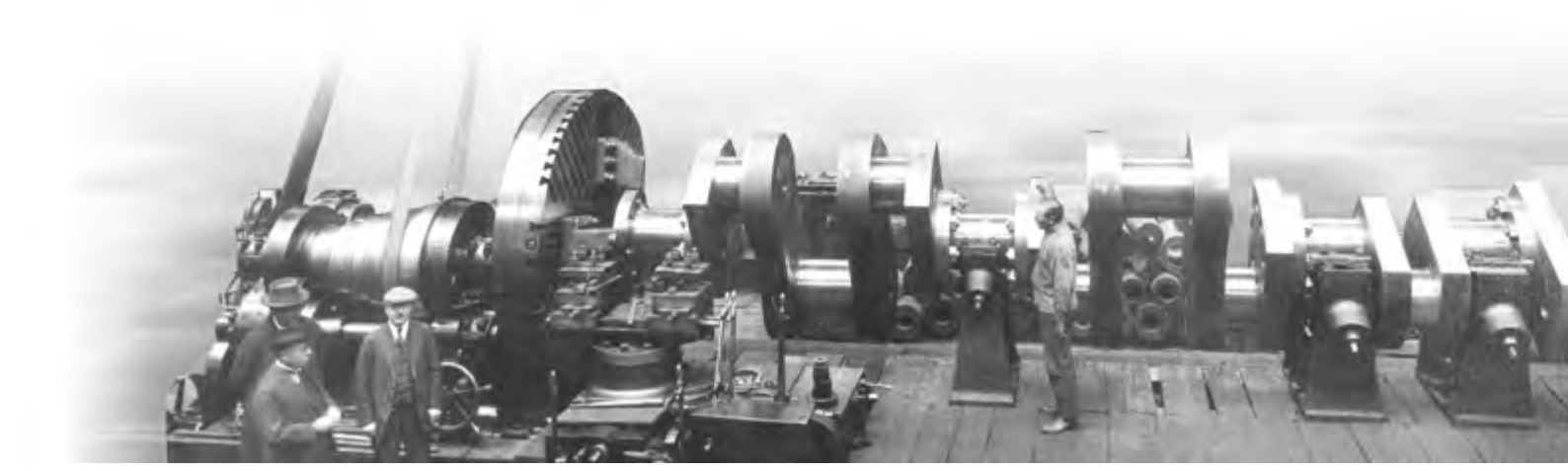


1911	Škoda Works started development and manufacturing of its own machine tools
1930	Manufacturing of lathes for ship crankshafts launched
1958	Gold medal at the Brussels World's Fair for the horizontal machine WD 200
1980	Production of CNC machines launched
1983	Manufacturing of hydrostatic machines launched
1993	Machine conception influenced by joint venture with Dörries Scharmann company

ŠKODA MACHINE TOOL

PRECISION WITH TRADITION





100+ YEARS OF EXPERTISE AND INVENTION

1994	5-axis machining with UFK launched
1999	Development of the SR lathes conception
2000	Development of the HCW and FCW series
2007	Skoda Eastern affiliate in China established
2009	Development of high-speed high-torque HCW 2000–4000 series
2016	The largest HBM sold

ŠKODA MACHINE TOOL

HORIZONTAL BORING & MILLING MACHINES

HORIZONTAL BORING & MILLING MACHINES

ŠKODA FCW series

ŠKODA HCW 1–4 series

ŠKODA HCW 2000–4000 series

ŠKODA MACHINE TOOL

FULLY CASTED AND FAST MOVING!

MAXIMUM PARAMETERS

MAIN MOTOR POWER
74 kW

SPINDLE SPEED
3 500 rpm

TORQUE
3 000 Nm

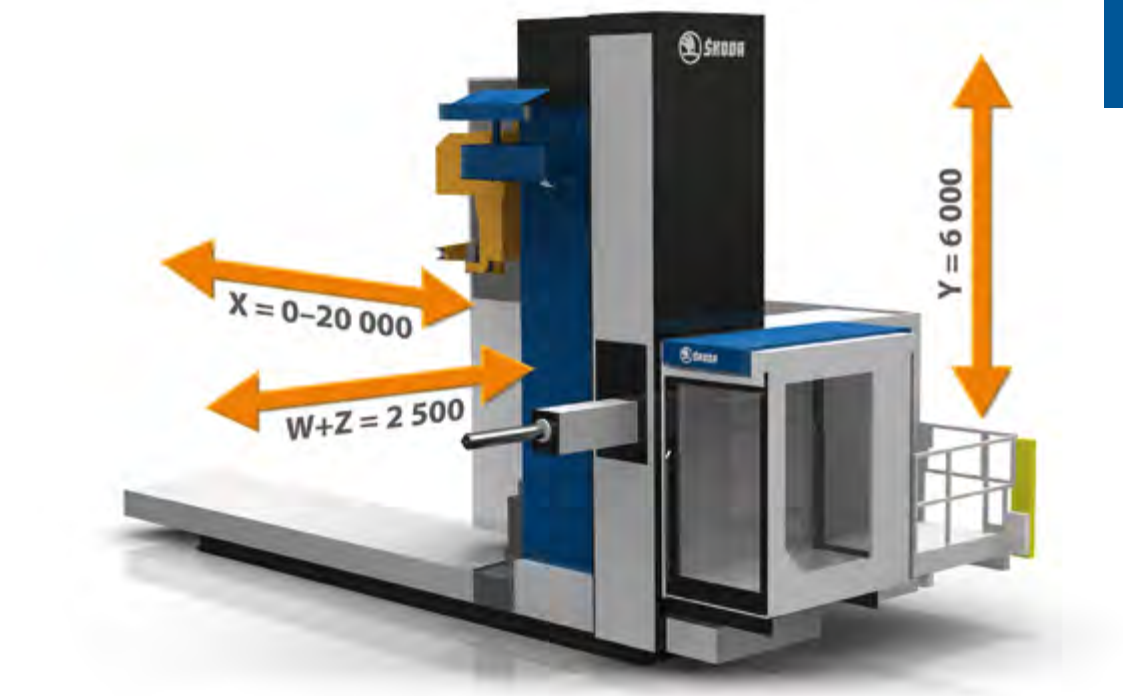
SPINDLE DIAMETER
180 mm

ŠKODA FCW SERIES

HORIZONTAL BORING MACHINE

- **high machine reliability**
- **simple maintenance**
- **original aesthetic design**
- **high efficiency of price vs. performance**

The FCW horizontal boring machines will find application in dusty working environments and jobs including cast iron, plastic material or GFK machining. They are also the best solution for machining box-type component parts of complex shapes for various industries including power generation, ship-building, mining, chemical, booms and transport equipment manufacturing.



ŠKODA MACHINE TOOL

LM GUIDEWAYS

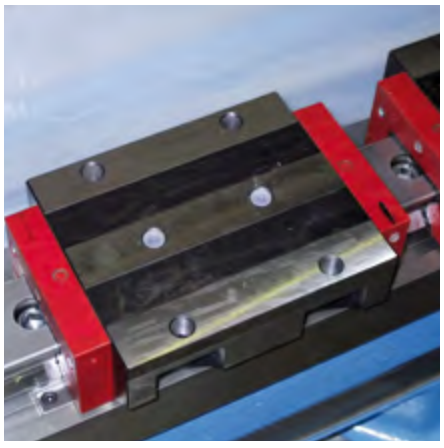
Linear rolling-contact bearings for the column movement on the machine bed and headstock movement on the column

MASTER-SLAVE SYSTEM

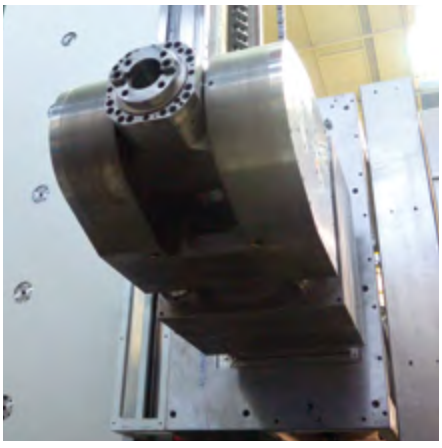
The toothed rack fitted into the bed, engaging the displacement box at the column traverse unit (the Master-Slave system)

UFK 5-AXIS MACHINING HEAD

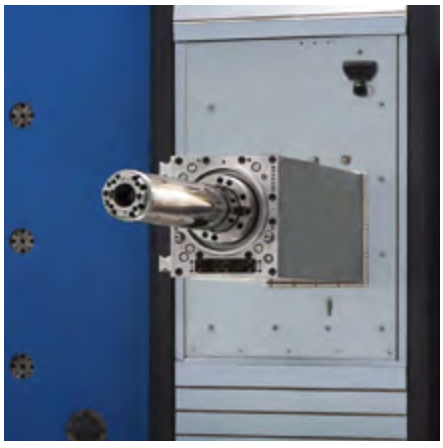
FCW machine can be eqiupped with universal 5-axis UFK 600 as a standard accessory for its higher flexibility and variability



Rolling unit axis X



NC milling head UFK 600



Face of ram

ŠKODA FCW SERIES

HORIZONTAL BORING MACHINE

FCW SPINDLE HEADSTOCK

This machine of a quill-type design is made from a box-shaped grey iron casting. Automatic ram dropping compensation is performed during the whole out travel of the ram according to the weight of the technological accessories applied.

The Heidehain measuring scale for direct ram extension measurement with compensation of the longitudinal thermal expansion of the ram is a proprietary Škoda patent.

	FCW 140	FCW 150	FCW 160
Spindle diameter (mm)	140	150	160/180
Main motor power (kW)	37	52	58/74
Max. spindle speed (rpm)	3 000	3 000	3 000/3 500
Sleeve extension Z axis (mm)	1 000	1 200	1 500
Sleeve extension W axis (mm)	900	900	1 000
Max. headstock traverse Y axis (mm)	5 000	5 000	6 000

ŠKODA MACHINE TOOL

HUGE CHIPS? FINE MACHINING? NO PROBLEM!

MAXIMUM PARAMETERS

MAIN MOTOR POWER
147 kW

SPINDLE SPEED
3 000 rpm

TORQUE
32 000 Nm

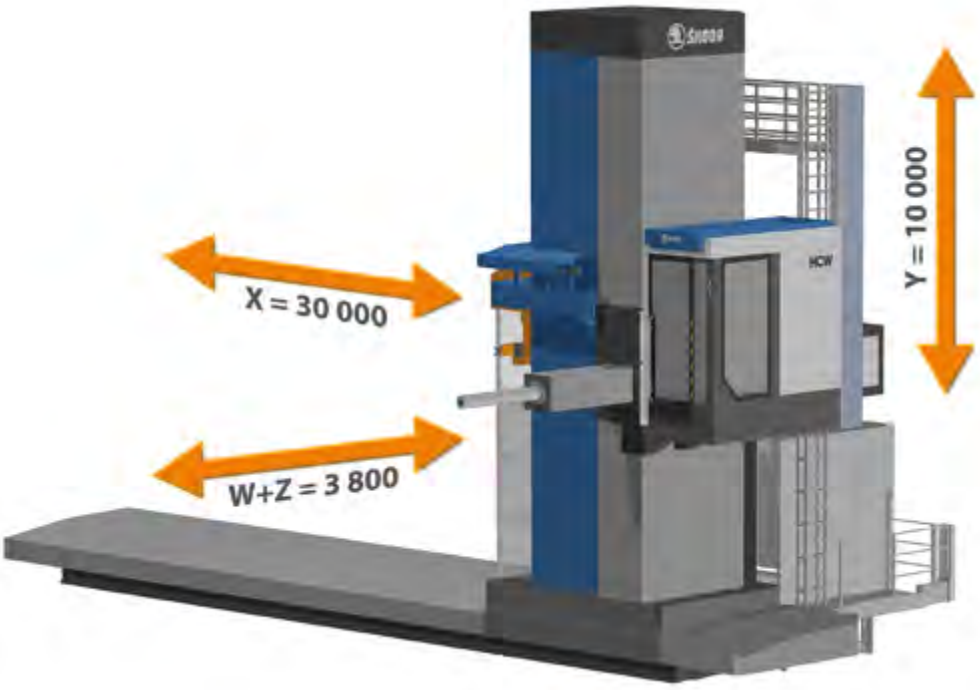
SPINDLE DIAMETER
300 mm

ŠKODA HCW 1–4 SERIES

HORIZONTAL BORING AND MILLING MACHINE

HIGH TORQUE FULLY HYDROSTATIC MACHINE

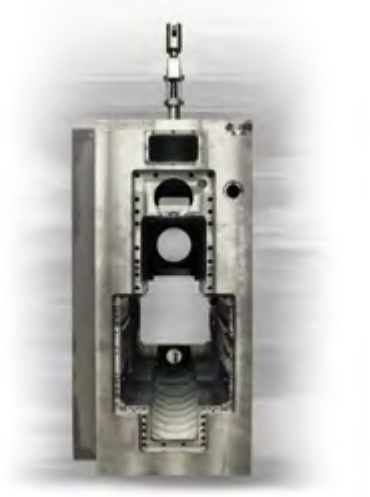
Three-step gearbox allow transmitting of extremely high torque onto the spindle or tool for rough machining together with the possibility of high revolutions for fine machining. This gives excellent results during machining process while taking huge chips as well as during very accurate fine machining on the customer's components, meeting the highest demands.



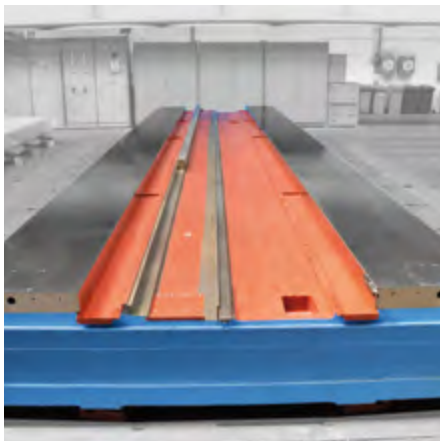
ŠKODA MACHINE TOOL

Heavily ribbed and large-sized castings together with in-house precise machining in micron values gives the machine superior stability features in long-term period of its use.
Thanks to modern approach of ŠKODA engineers and use of advanced functions and technologies, the machine brings even higher performance and reliability during its lifetime.

Column



Headstock body



Bed

ŠKODA HCW 1–4 SERIES

	HCW 1	HCW 2	HCW 3	HCW 4
Spindle diameter (mm)	150/160	160/180/200	200/225/250/262	262/280/300
Main motor power (kW)	71	100	129	147
Max. spindle speed (rpm)	3 000	2 500	2 000	2 000
Sleeve extension Z (mm)	1 200	1 300	1 600	2 000
Sleeve extension W (mm)	1 000	1 200	1 500	1 800
Max. headstock traverse Y (mm)	5 000	7 000	9 000	10 000

ŠKODA MACHINE TOOL

EXTRAORDINARY
OUT TRAVELS & REVOLUTIONS

MAXIMUM PARAMETERS

MAIN MOTOR POWER
120 kW

SPINDLE SPEED
3 500 rpm

TORQUE
12 500 Nm

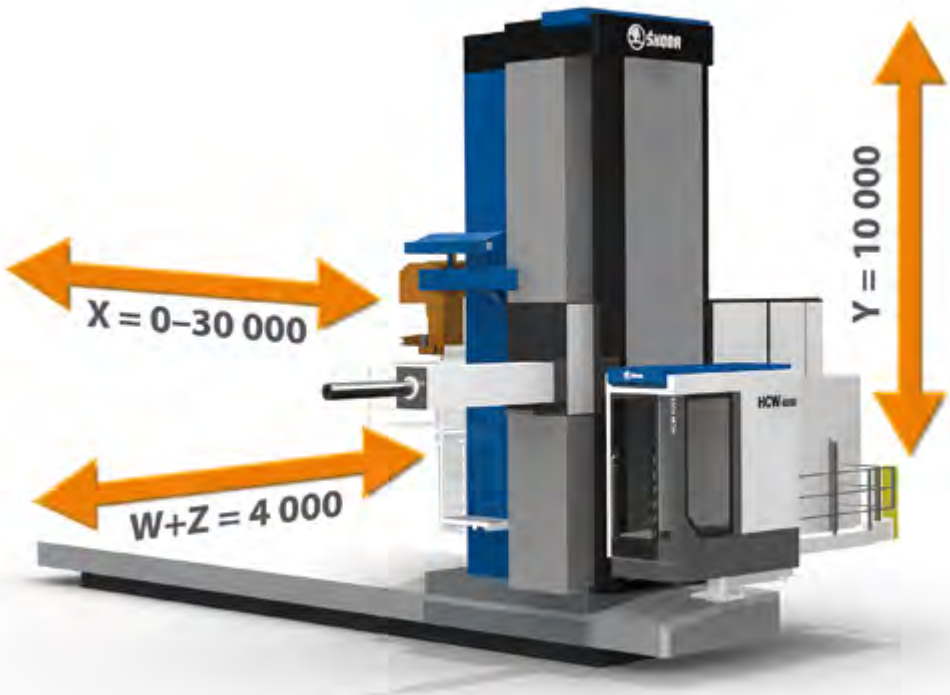
SPINDLE DIAMETER
262 mm

HCW 2000–4000 SERIES

HORIZONTAL BORING AND MILLING MACHINE

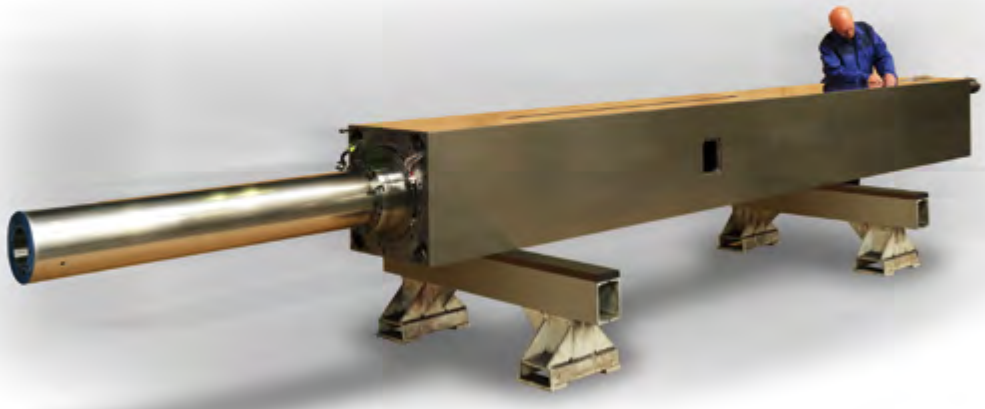
HIGH REVOLUTION FULLY HYDROSTATIC MACHINE

Two-step gearbox built into the ram allows this type of machine to reach extreme out travels in the ram (Z) and the spindle (W) travels together with very high revolutions. This up-to-date concept of the newest type of ŠKODA horizontal boring and milling machine enables use of the most advanced machining tools available on the market and it also extremely improves the customer's productivity.



ŠKODA MACHINE TOOL

Following the latest trends in feed kinematics available, ŠKODA machines reach high feed rates without compromises as for the traditionally superior accuracy and the machine's lifetime. Using the most advanced systems of the ram dropping compensations, ŠKODA machines are able to keep accuracy in microns even with fully extended ram from the headstock (a patent of ŠKODA).



HCW 4000: Z + W = 4 000 mm

HCW 2000–4000 SERIES

	HCW 1000*	HCW 2000	HCW 3000	HCW 4000
Spindle diameter (mm)	130	160/180	180/200/225	225/250/262
Main motor power (kW)	37	64	103	120
Max. spindle speed (rpm)	3 000	3 500	3 000	3 000
Sleeve extension Z axis (mm)	–	1 750	2 000	2 500
Sleeve extension W axis (mm)	900	1 250	1 400	1 500
Max. headstock traverse Y axis (mm)	3 000	5 000	7 000	9 000

* box guide ways

ŠKODA MACHINE TOOL

UNIVERSAL HORIZONTAL LATHES

UNIVERSAL HORIZONTAL LATHES

ŠKODA SR 1–5 SERIES

MULTITASK S-MT SERIES

The present series of heavy horizontal lathes marketed under the brand of ŠKODA SR consist of machines of modern design intended for efficient and precision working of rotating workpieces, representing the best combination of maximum stability, high precision and high cutting power.

ŠKODA MACHINE TOOL

A 30-METRE LONG WORKPIECE? WHY NOT?

MAXIMUM PARAMETERS

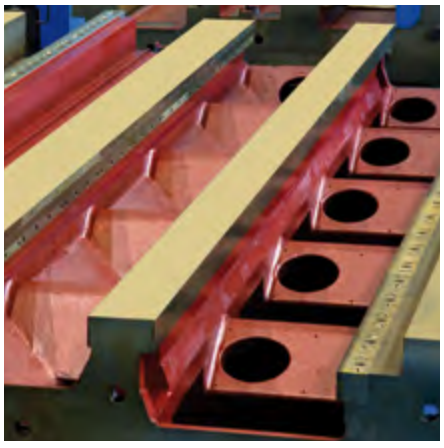
SWING OVER BED
6 000 mm

DISTANCE BETWEEN CENTRES
30 000 mm

WORKPIECE WEIGHT
350 t

POWER
355 kW

SPEED
700 rpm



Bed

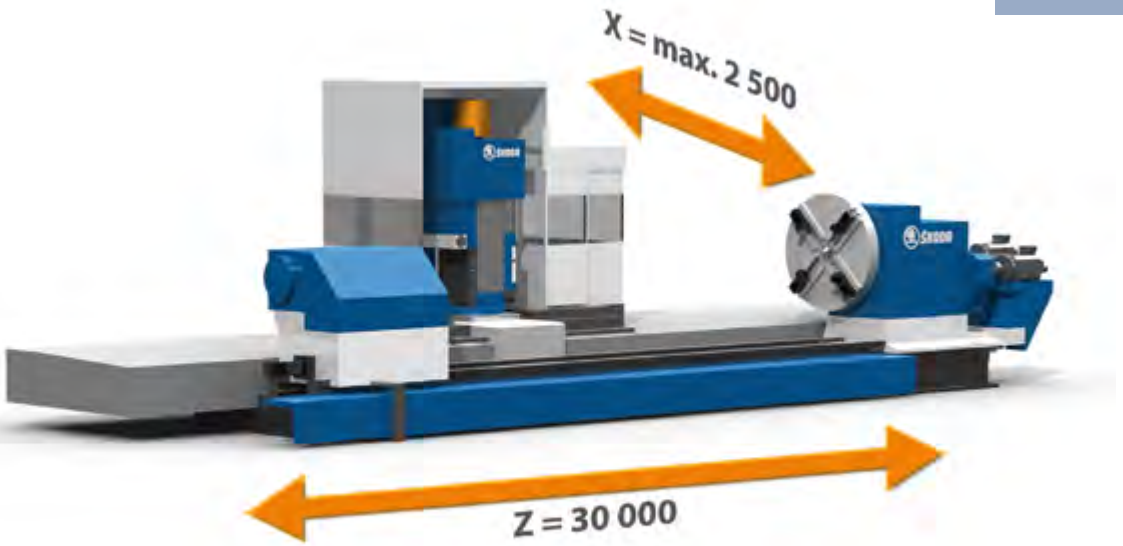
Steady rests

Pin turning device

ŠKODA SR 1–5 SERIES

UNIVERSAL HORIZONTAL LATHES

The sophisticated modular machine construction makes possible work station design optimised to meet the customer requirements. The key machine parts are made of grey iron.
The machine can be equipped with milling tower, deep boring, grinding etc.

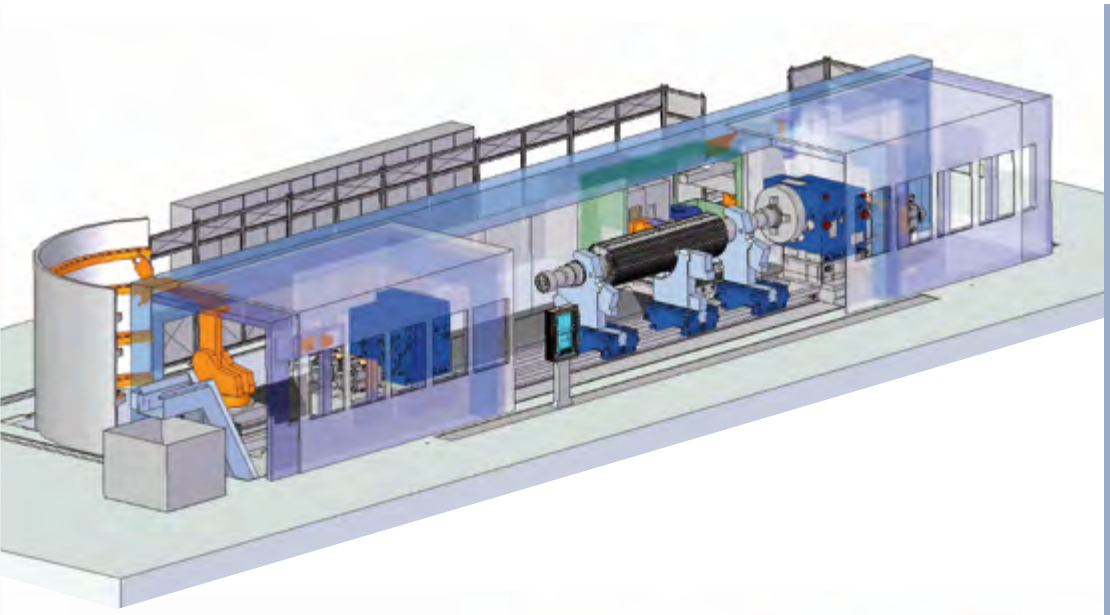


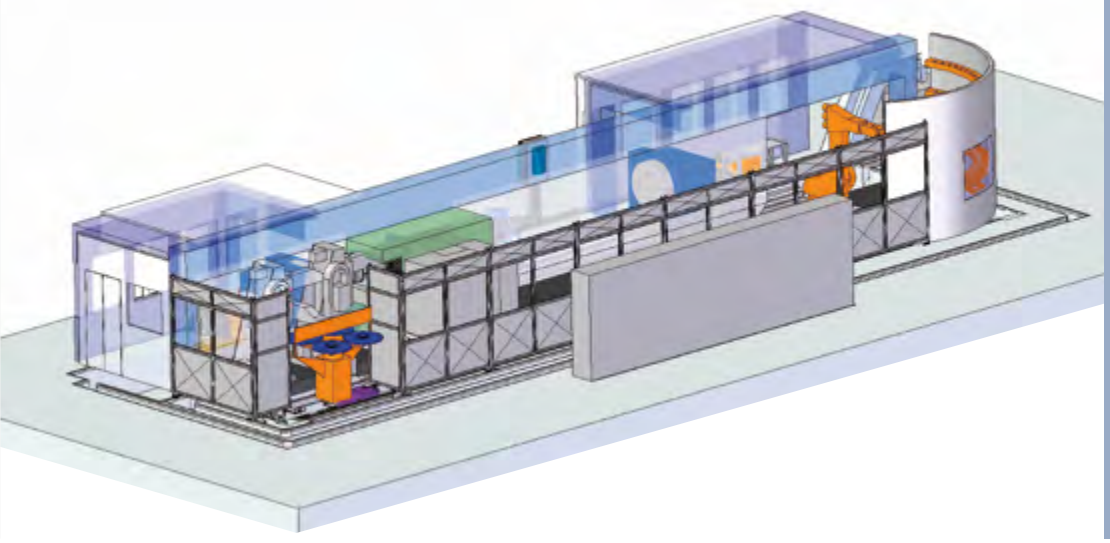
ŠKODA MACHINE TOOL

ŠKODA SR 1–5 SERIES

	SR1	SR2	SR3	SR4	SR5
Swing over bed (mm)	1 250–1 900	1 600–2 250	2 500–3 500	3 000–3 600	3 600–6 000
Distance between centres (mm)	3 000–30 000	4 000–30 000	4 000–30 000	4 000–30 000	4 000–30 000
Max. workpiece weight (t)	25	56	100	250	350
Cross slide travel (mm)	700	1 000	1 250	1 600	2 200/2 500
Power (kW)	55–95	55–140	55–190	95–190	190–355
Max. speed (rpm)	700	430	250	120	120

MULTITASK S-MT SERIES





MULTITASK MACHINE

FEATURES:

- Complete rough and final machining by turning, milling, grinding, drilling, deep boring and measuring during one setup
- Hydrostatic guideway in all linear axes – long-term high accuracy
- Automatic attachment and tool changing
- NC controlled B and C axis
- Complete machine enclosure with integrated coolant mist exhaust system

CUSTOMER'S ADVANTAGE:

- Higher reliability and efficiency
- Complete machining with various attachments on one setup
- Increase of final product quality – machining and measuring on one setup
- Higher flexibility
- Less space requirement – lower number of machines

	S 200 MT	S 320 MT
Max. workpiece weight (kg)	60 000	120 000
Max. diameter (mm)	2 000	3 200
Distance between centres (mm)	4 000–10 000	5 000–15 000
Max. rotation speed (rpm)	700	300
Max. turning power (kW)	104	200
Max. milling speed (rpm)	3 000	3 000
Max. milling power (kW)	37	51
Automatic tool change	yes	yes

ŠKODA MACHINE TOOL

ROTARY & TRAVERSABLE TABLES

ROTARY & TRAVERSABLE TABLES

ROTARY AND TRAVERSABLE TABLES ŠKODA TDV SERIES

TILTING TABLES ŠKODA TDV TILT

CAROUSEL TABLES ŠKODA TDV C

Fully hydrostatic rotary and traversable tables are used by most of our users as extremely useful accessories allowing expansion of the customer's capability in terms of scope of components being able to be machined. Besides standard rotary and traversable tables, ŠKODA produces a full range of tables with tilting and carousel functions, giving the customer far wider range of options in machining of specific components such as wind mill components or rotating parts.

ŠKODA MACHINE TOOL

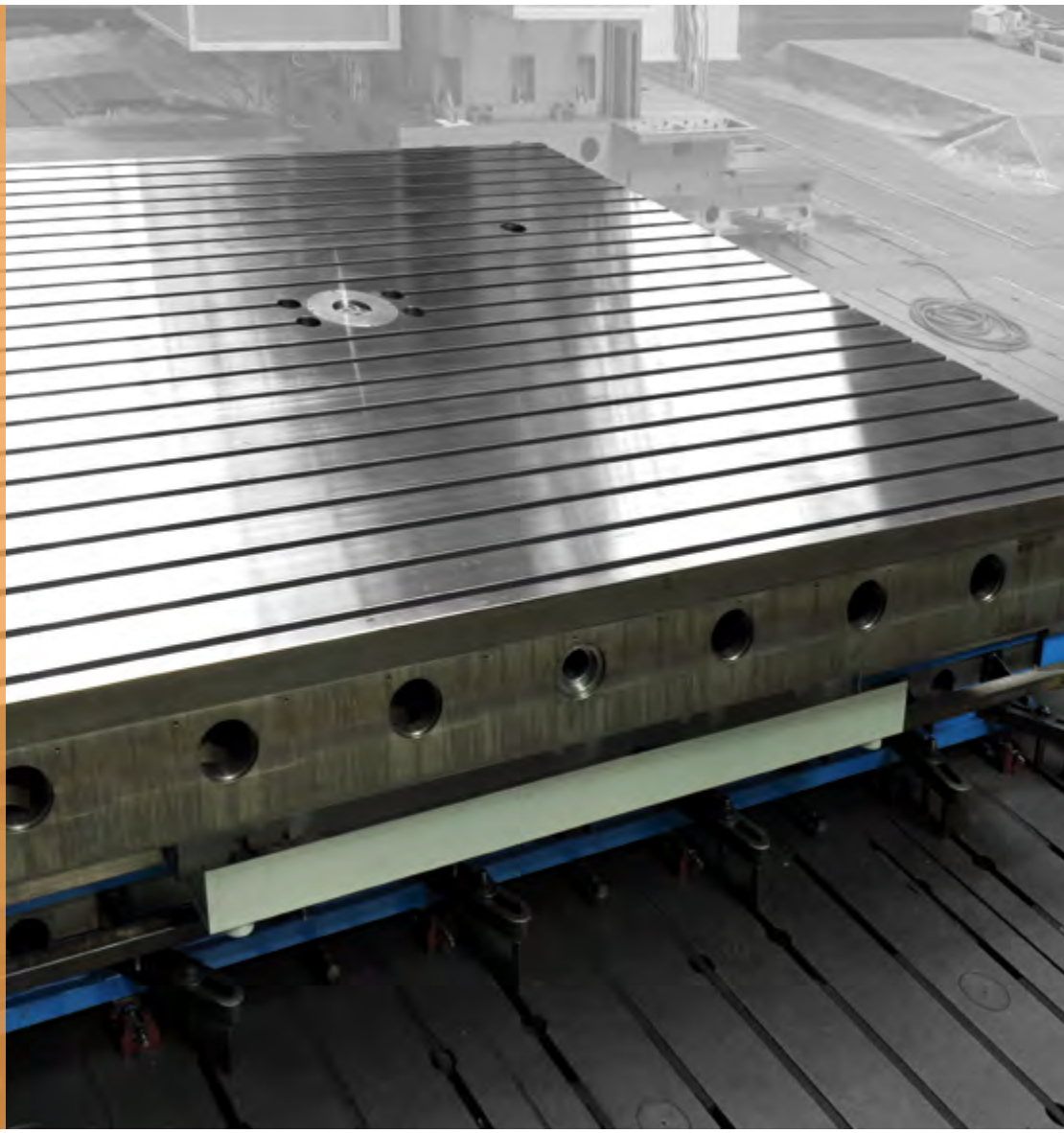
MACHINES THAT LAST DECADES...

MAXIMUM PARAMETERS

WEIGHT
400 t

TABLE PLATE
6 000 x 8 000 mm

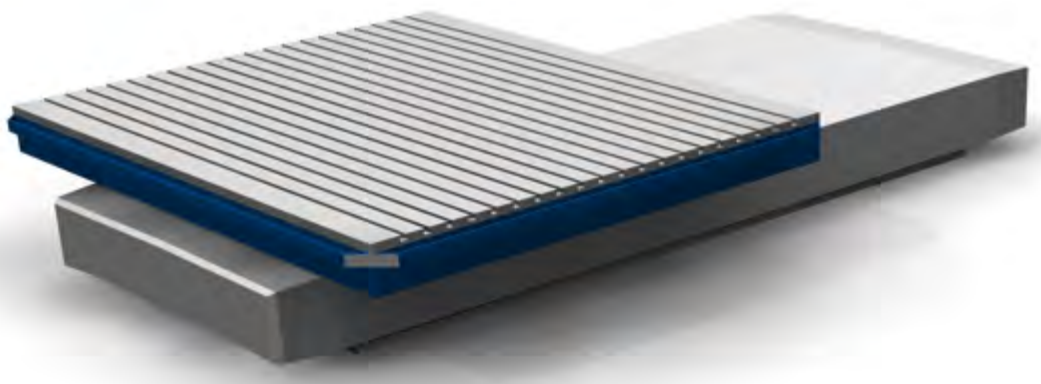
TRAVEL V
7 000 mm



TDV SERIES

ROTARY & TRAVERSABLE TABLE ŠKODA TDV

The widest range of clamping plates' sizes is suitable for every type of rotary tables. Utmost accuracy available in rotary and linear axes allows reaching real accuracy within micron or arc second limits. Extremely heavy design of tables ensures long usable lifetime of the tables without compromises as for the accuracy. The actual proven lifetime of ŠKODA machines and tables is counted in decades.



ŠKODA MACHINE TOOL

TABLE EXCENTRIC LOAD

Wide hydrostatic guideway for V and B axis allows rigid, stable, smooth and accurate movement in both axes. Unbalanced load compensation function included in case of loading eccentric components onto the table (TEL) is a standard function of all tables.

TDV SERIES

TABLE CENTRE LOAD

Clamping units for B axis keep the component in a precisely positioned position in relation to the machine.
Optimal kinematic chains based on load of the table generated by the component's weight while loaded to the table (TCC) is also a basic function of Škoda tables.

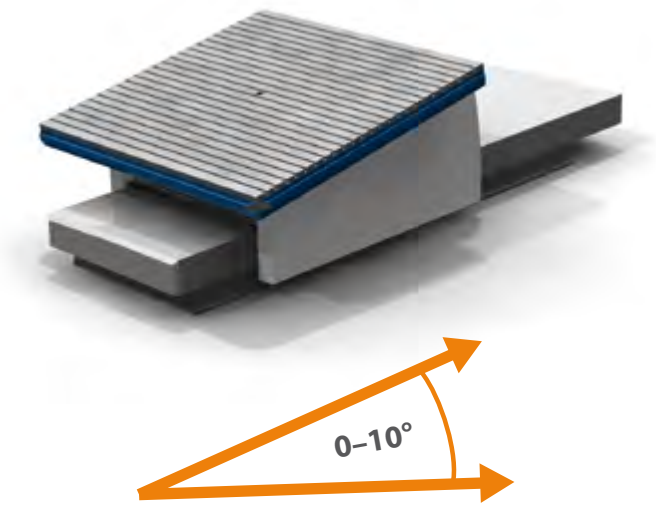
	TDV 30	TDV 40	TDV 50	TDV 70	TDV 100	TDV 160	TDV 250	TDV 400
Max. load (t)	30	40	50	70	100	160	250	400
Min. clamping area (m)	2 x 2	2 x 2	2 x 2	2.5 x 2.5	3 x 3	4 x 4	4.5 x 4.5	5 x 5
Max. clamping area (m)	3 x 3	3.5 x 3.5	3.5 x 3.5	4 x 4	5 x 5	5 x 5	6.5 x 6.5	6 x 8
Rapid traverse - V axis (m/min.)	10	10	10	10	10	10	10	10
Traverse in spindle direction - V axis (m)	4	4	4	4	4	4.5	7	7

TILTING TABLES ŠKODA TDV TILT

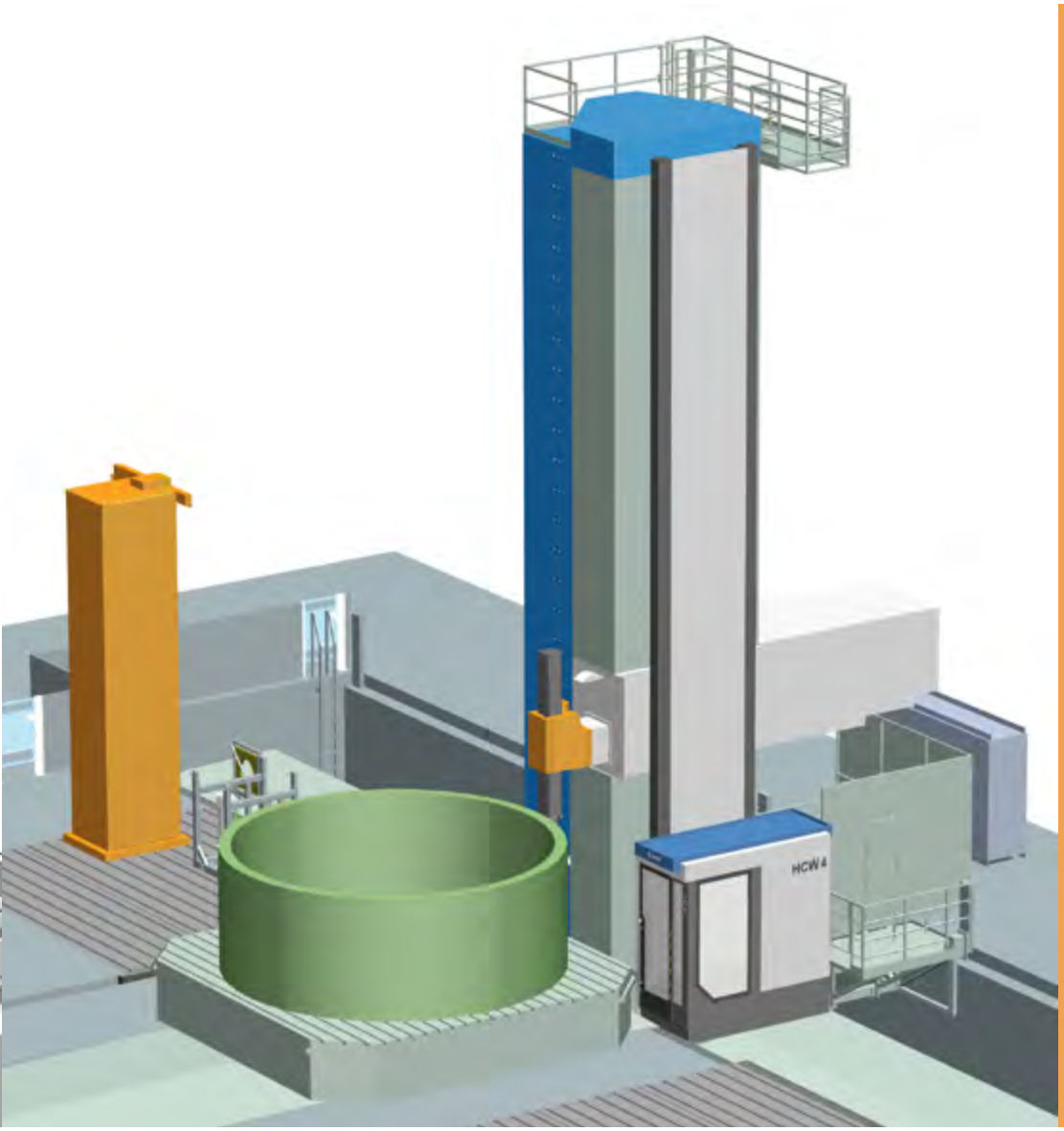
A wide range of tilting tables ŠKODA is used for machining of various components, especially in wind power sector, such as of windmill generator hubs.
The table plate tilting is between 0 to 10° with all loading possibilities.

ŠKODA FOR WIND

	TDV TILT 40	TDV TILT 70	TDV TILT 100	TDV TILT 160
Max. load (t)	40	70	100	160
Min. clamping area (m)	2 x 2	2.5 x 2.5	3 x 3	4 x 4
Max. clamping area (m)	3.5 x 3.5	4 x 4	5 x 5	5 x 5
Rapid traverse - V axis (m/min.)	10	10	10	10
Traverse in spindle direction - V axis (m)	4	4	4	4,5
Max. tilting	10°	10°	10°	10°



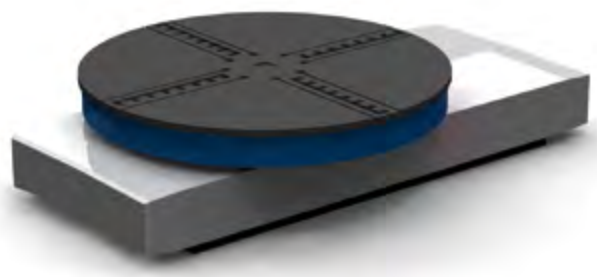
TILTING & CAROUSEL TABLES



CAROUSEL TABLES ŠKODA TDV C

Rotary tables ŠKODA TDV C are equipped with a carousel function. This allows customers to perform not only standard boring and milling operations, but also turning operations on the same component. This solution increases the customer's flexibility and machine variability as well as productivity.

	TDV 40 C	TDV 70 C	TDV 100 C	TDV 160 C	TDV 250 C
Max. load (t)	40	70	100	160	250
Min. clamping area (m)	2 x 2	2.5 x 2.5	3 x 3	4 x 4	4.5 x 4.5
Max. clamping area (m)	3.5 x 3.5	4 x 4	5 x 5	5 x 5	6.5 x 6.5
Rapid traverse - V axis (m/min.)	10	10	10	10	10
Rotation speed (rpm)	80	60	40	25	20
Traverse in spindle direction - V axis (m)	4	4	4	4.5	7
Power (kW)	2 x 51	2 x 56	2 x 78	2 x 78	2 x 105



ŠKODA MACHINE TOOL

MACHINE ACCESSORIES

MACHINE ACCESSORIES

SPECIAL ACCESSORIES

ROBOTIC TOOL CHANGERS

AUTOMATIC TOOL CHANGERS

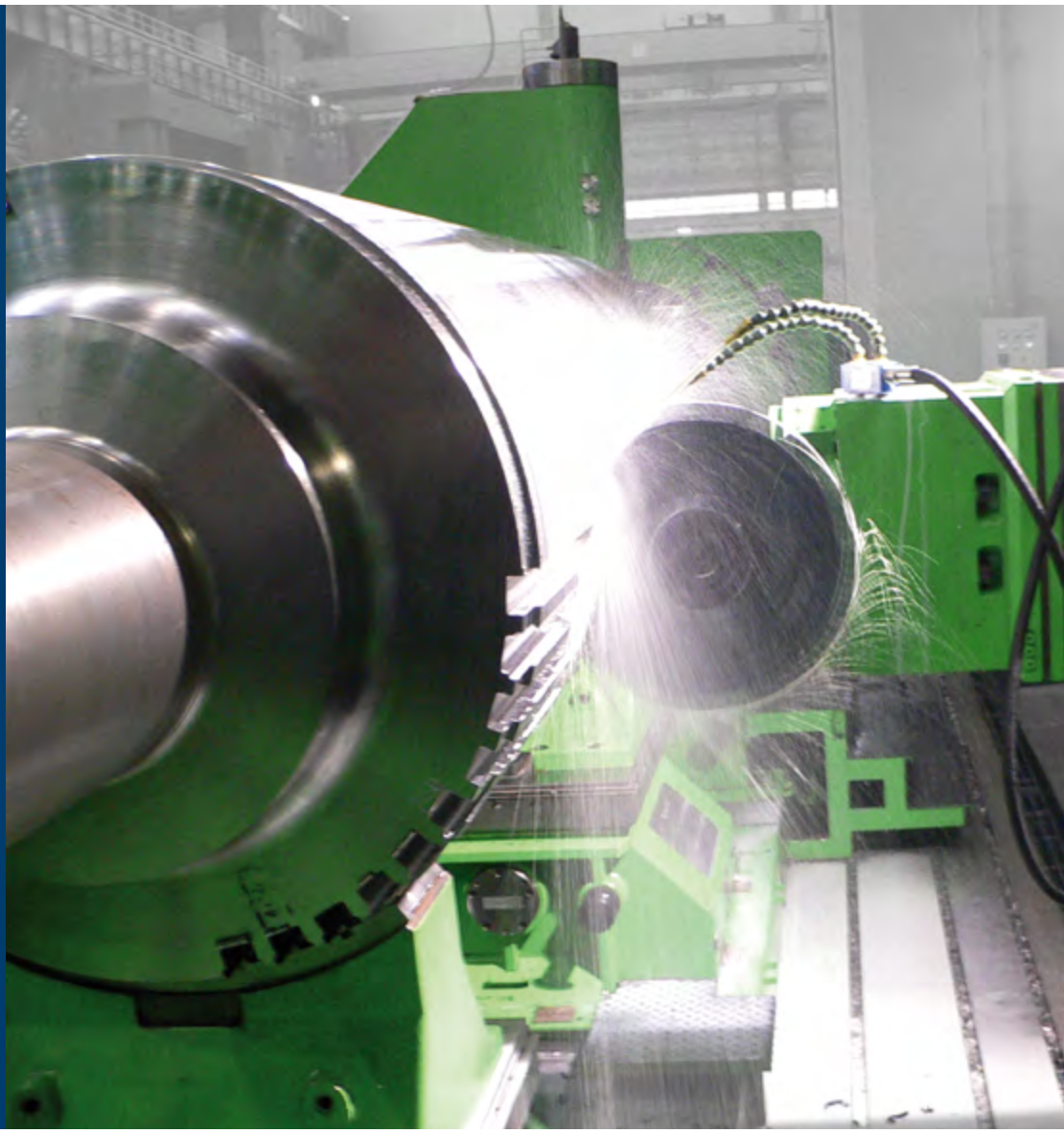
MILLING AND FACING HEADS

ŠKODA MACHINE TOOL

GET YOUR MACHINE BEYOND THE LIMITS.

GENERATOR SLOTTING EQUIPMENT

ŠKODA MACHINE TOOL offers various accessories allowing complete machining of generators for all kinds of power plants up to the highest capacity.
The batch of accessories concludes various execution of slotting devices for very productive and accurate machining, indexing devices for precise generator positioning and other attachments required for complete machining and measuring process while producing generators.

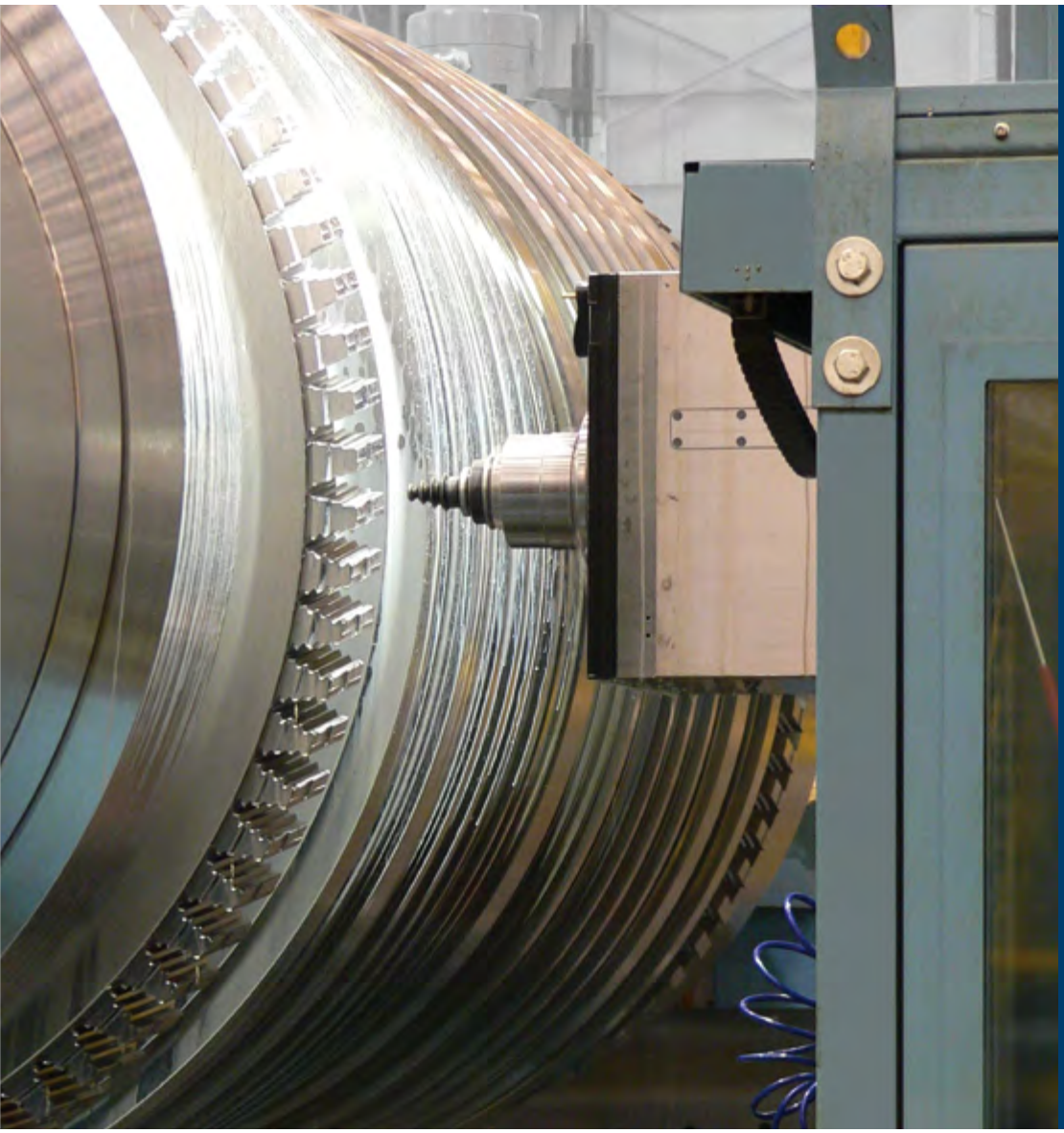


Slotting of generator

Milling head for slotting

Machining of coupling holes

SPECIAL ACCESSORIES



TURBINE SLOTTING EQUIPMENT

ŠKODA machines are ready to be equipped by all types of accessories required for machining of complete turbine shafts. The machines are capable to machine all types of turbines up to the capacity of 2000 MW. Using profile tools from world-known tool makers, ŠKODA machines are capable to machine straight, bevel and curved tree-slots for turbine blades, reaching superior accuracy.

Profile machining

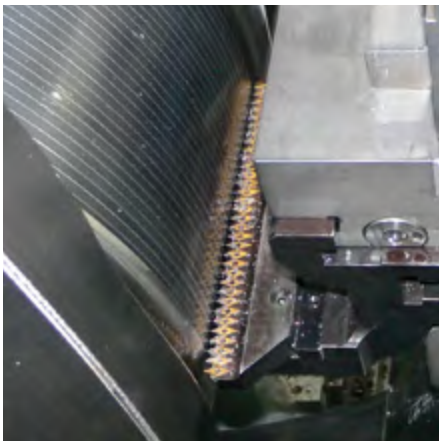
Turbine blades' slots

ŠKODA MACHINE TOOL

MACHINING EQUIPMENT FOR FOUR-STROKE CRANKSHAFTS

Special ŠKODA workstations for complete machining of four-stroke crankshafts of the widest range are successfully used by crankshaft makers. The unique ŠKODA solution uses two milling towers of high power machining one component from both sides at a time. This gives our customers the highest reliability and productivity.

Pin turning device



Roughing of crankshaft's journal

SPECIAL ACCESORIES

MACHINING EQUIPMENT FOR TWO-STROKE CRANKSHAFTS

ŠKODA solution for machining two-stroke crankshafts is used at various places in the world for roughing as well as fine machining of all types of large size crankshafts from size 35 upwards. The portfolio of special attachments includes pin turning devices for pin machining, top rest for centre journal machining and other required accessories for machining and measuring of the component.

Grinding of turbine's blades

Machining of windmill shaft

ŠKODA MACHINE TOOL

CAN I HELP YOU? I'M YOUR ROBOT...

ROBOTIC TOOL CHANGERS

RTC STATIONARY

Static tool magazine
and robot on fundament

RTC INDEPENDENT

Static tool magazine
on fundament and independent
moveable robot

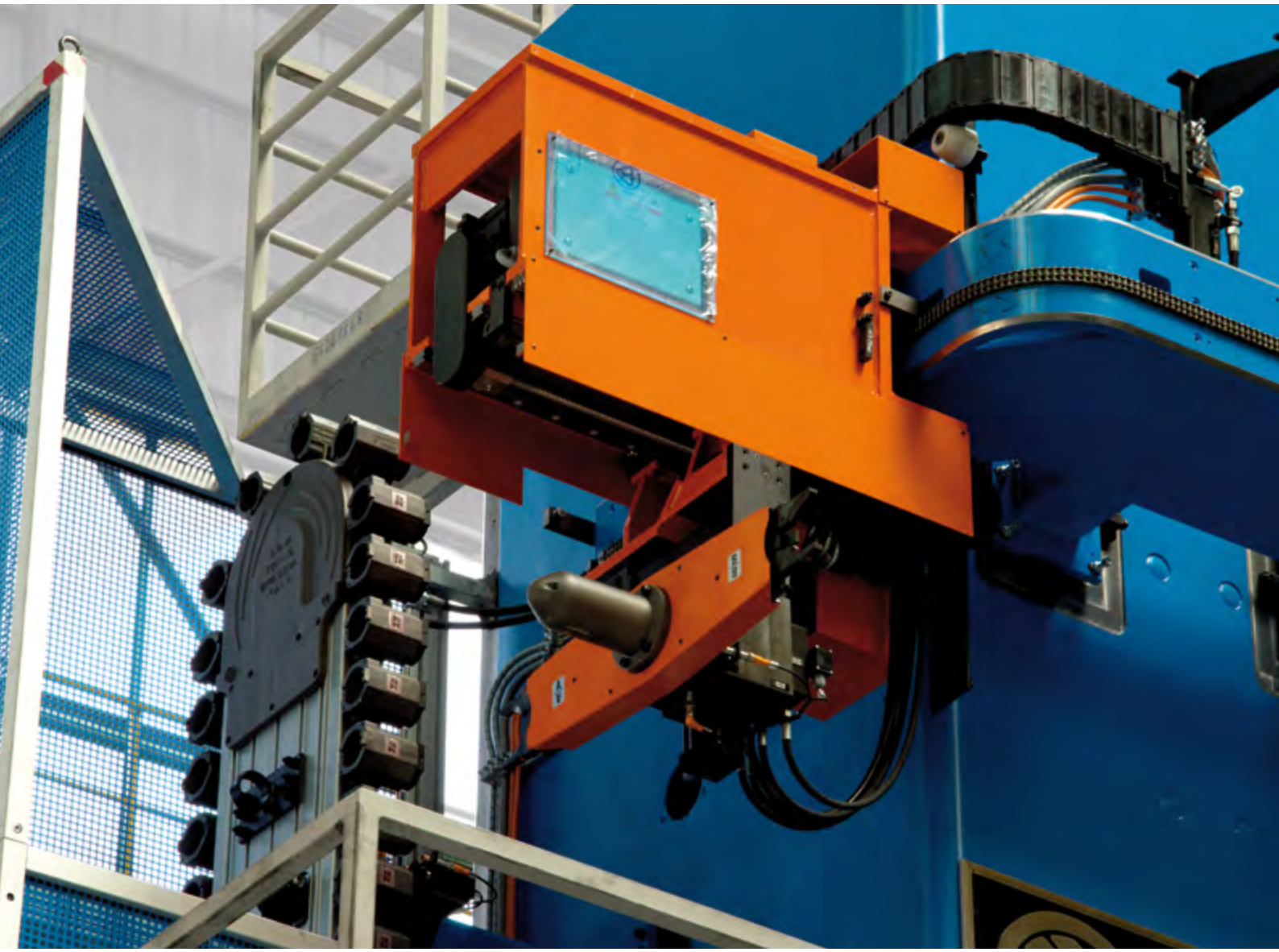
RTC MOVING

Tool magazine and robot
moveable with machine

RTC allows exchange of tools to machine spindle or to spindle of various milling heads indexed under any angle. This saves the additional changing time required for positioning of the head to the loading position. Actual number of tools is practically unlimited thanks to using of storage tool area for hundreds of different tools. RTC also allows other additional functions such as fast automatic tool break monitoring system or others.

ROBOTIC TOOL CHANGER		
Max. tool weight (kg)	25	50
Number of tools	unlimited	unlimited

AUTOMATIC TOOL CHANGERS



ATC		
Max. tool weight (kg)	25	50
Number of tools	40/60/90/120/160	40/60/90/120/160
Max. tool diameter (mm)	300	420
Max. tool length (mm)	500	500

ŠKODA MACHINE TOOL

EXTEND THE CAPABILITIES OF YOUR MACHINE!

MANUAL 1-AXIS HEAD	IFVW 2C, 4C
Max. power:	55 kW
Max. torque:	2 600 Nm
Angle:	any

MANUAL 2-AXIS HEAD	IFVW 3C
Max. power:	55 kW
Max. torque:	2 600 Nm
Angle:	any

EXTENSION MILLING HEAD	IFVW 40
Max. power:	80 kW
Max. torque:	7 000 Nm
Length:	1 230 mm

SMALL RIGHT ANGLE HEAD	IFVW 112, 113, 114
Max. power:	25 kW
Max. torque:	600 Nm
Angle:	à 1° / à 2.5°
Length :	up to 1 570 mm

RIGHT ANGLE HEAD	101, 102, 103, 104
Power:	25–85 kW
Torque:	1 000–4 000 Nm
Angle:	à 1° / à 2.5°

UNIVERSAL 45-DEGREE HEAD	IFVW 203
Max. power:	30 kW
Max. torque:	1 500 Nm
Angle:	à 1° / à 2.5°

UNIVERSAL 90-DEGREE HEAD	IFVW 206, 207, 208
Max. power:	25-73 kW
Max. torque:	1 000–3 500 Nm
Angle:	à 1°/ 2.5°

CNC UNIVERSAL HEAD	UFK 600, 1000, 2000, 2400
Max. power:	25-50 kW
Max. torque:	600–2 400 Nm
Angle:	continuous

MILLING AND FACING HEADS

STANDARD FACING HEAD	IWD 125, 320, 500, 700
Head diameter:	125–700 mm
Machining diameter:	up to 1 765 mm

LARGE SIZE FACING HEAD	IWD 1100, 2000
Head diameter:	1 100–2 000 mm
Machining diameter:	1 150–3 200 mm
Depth of machining:	up to 5 100 mm

MICRO INDEX 1-AXIS HEAD	IFVW 110
Max. power:	25 kW
Max. torque:	600 Nm
Angle:	à 0.001°

MICRO INDEX 2-AXIS HEAD	IFVW 201 MI, 210 MI
Max. power:	25–30 kW
Max. torque:	800–1 000 Nm
Angle:	à 0.001°

Head pick up system
for Automatic Attachment Changer (AAC)

Palette head change system

APPLICATION TECHNOLOGIES & ENGINEERING

APPLICATION TECHNOLOGIES & ENGINEERING

3D SIMULATIONS

INDUSTRY 4.0

TEAMCENTER

TURN-KEY SUPPLY OF THE MACHINE

CASE AND TIME STUDIES

ŠKODA

ŠKODA MACHINE TOOL

GIVE US A WORKPIECE, GET THE TECHNOLOGY

SIMULATION AND POST-PROCESSORS

We use the most up-to-date CAD and CAM technologies for design and study preparations. The very last version of Siemens NX CAD system is used for machine construction.
For workstation simulations we develop and use our own simulators and postprocessors. NC driven simulations are always prepared for an exact machine in requested configuration. It gives our machine a next parameter – virtual one.

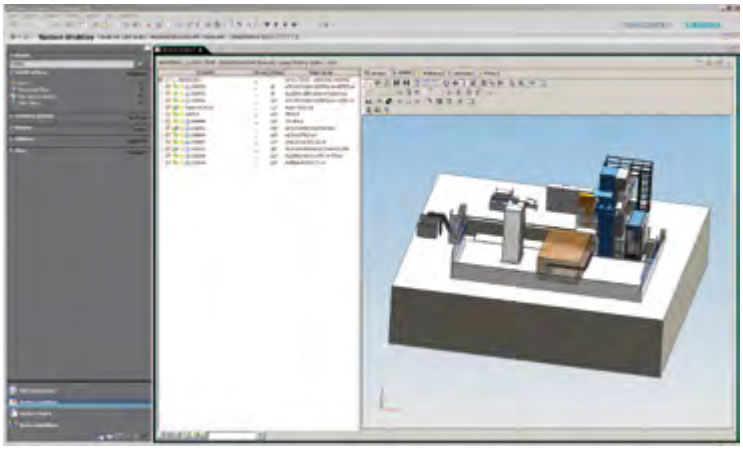
INDUSTRY 4.0

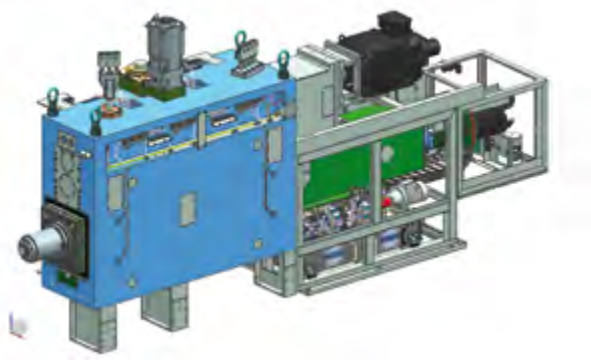
We in ŠKODA apply the latest trends of next step in the industrial revolution (Industry 4.0) trying to learn, adopt and use its benefits in order to integrate the production, to achieve higher sustainability and thus the customer´s satisfaction. Our revolutionary approach creates an intelligent network system where we and our customers can operate production in a more flexible and innovative way, controlled by several devices and displayed on a control panel, your laptop or even on your smartphone. Together with our clients we will be able to create an online environment that will help achieve better results in product manufacturing through higher machine reliability and availability.

ENGINEERING

SYSTEM ADMINISTRATION OF TEAMCENTER

We use the Teamcenter software for system administration, which enables us to connect processes in the whole company. It is used from construction through customer technology, NC programming up to purchase department.
Thanks to this system we do flexibly react to change management and approval processes.

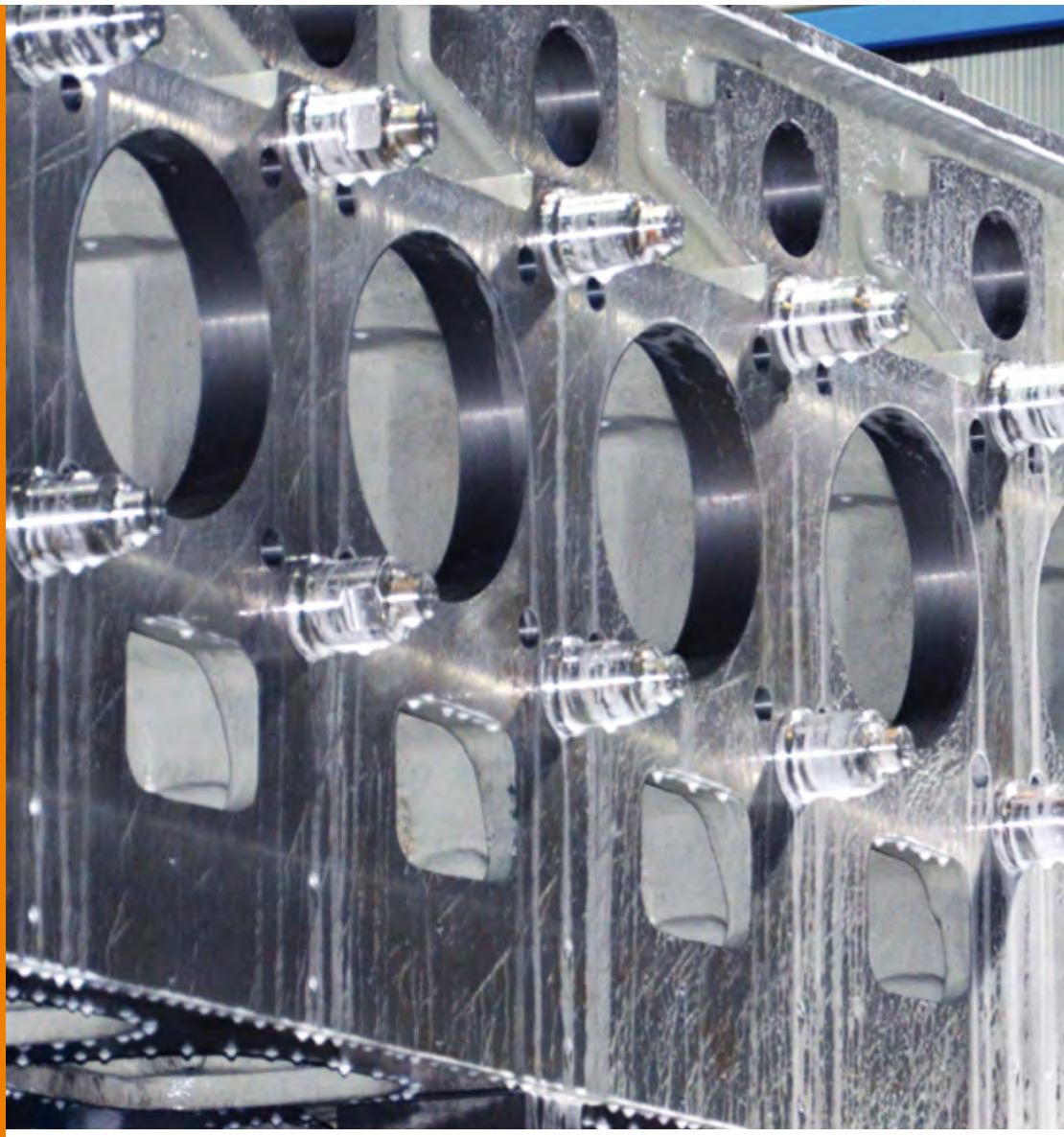


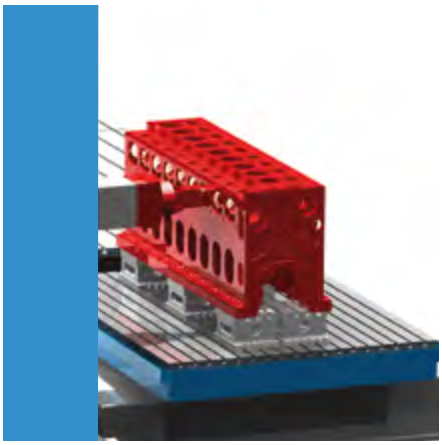


ŠKODA MACHINE TOOL

TURN-KEY SUPPLY OF THE MACHINE

Our machines are always subject to a so called turn-key contract, inclusive all the accessories and CNC technology. Thanks to high expertise of our application engineers as a part of the contract we also provide case and time studies, tools for machining, fixtures, CNC programms, tuned postprocessors and simulators. As a result we provide application of the whole process at the customer's plant, sample workpiece machining, such as technical personells' training.





COLISION SIMULATIONS

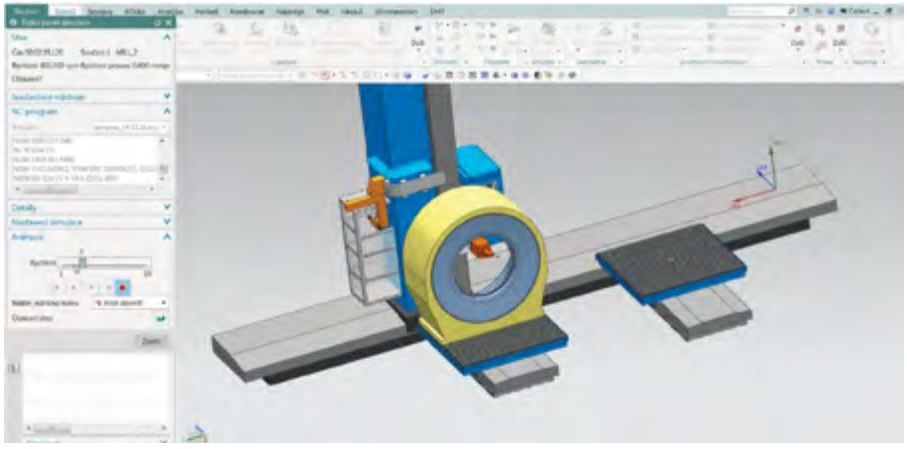
APPLICATION TECHNOLOGIES

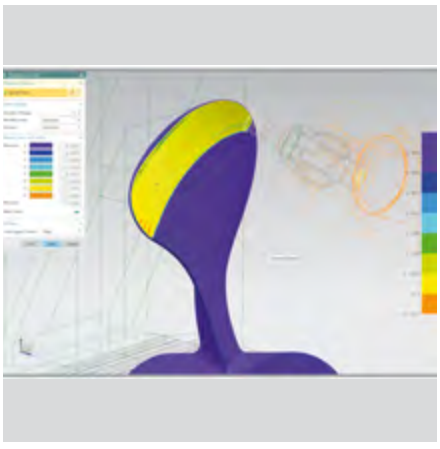
CASE AND TIME STUDIES

Our case study consists of complete arrangement of the new machine, workpiece and all the neccessary equipment in 3D. As an output we receive workstation layout, machine equipment, accessories, CNC technologies and collision simulation.

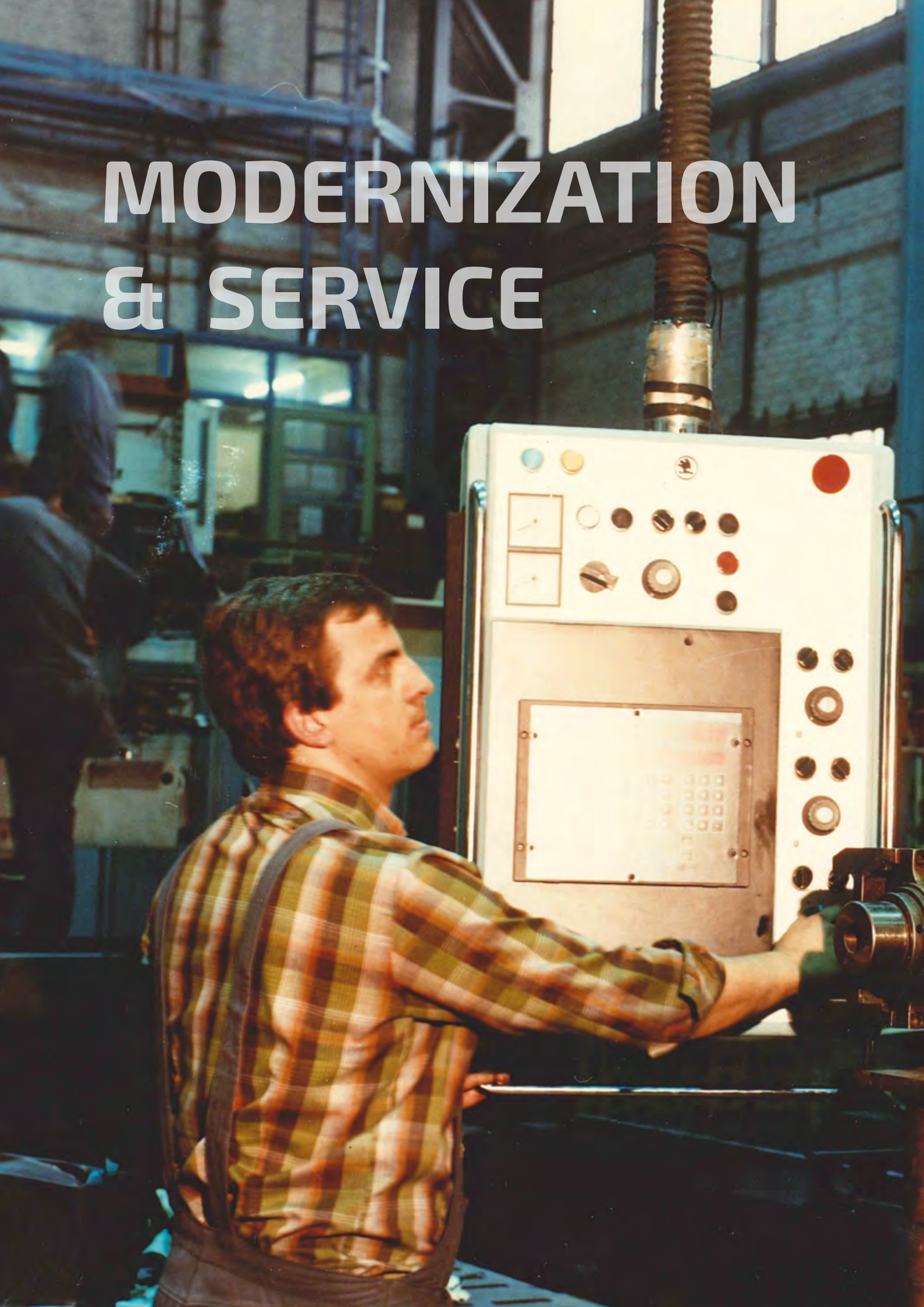
Time study consists of duration analysis of individuall machine operations. It is possible to discuss this application together with our customers in virtual environment and meet all their wishes and expectations.

3D SIMULATION





ŠKODA MACHINE TOOL



MODERNIZATION & SERVICE

MODERNIZATION & SERVICE

MODERNIZATION AND OVERHAULING

ŠKODA MONITORING SYSTEM

VIBRODIAGNOSTICS

SERVICE

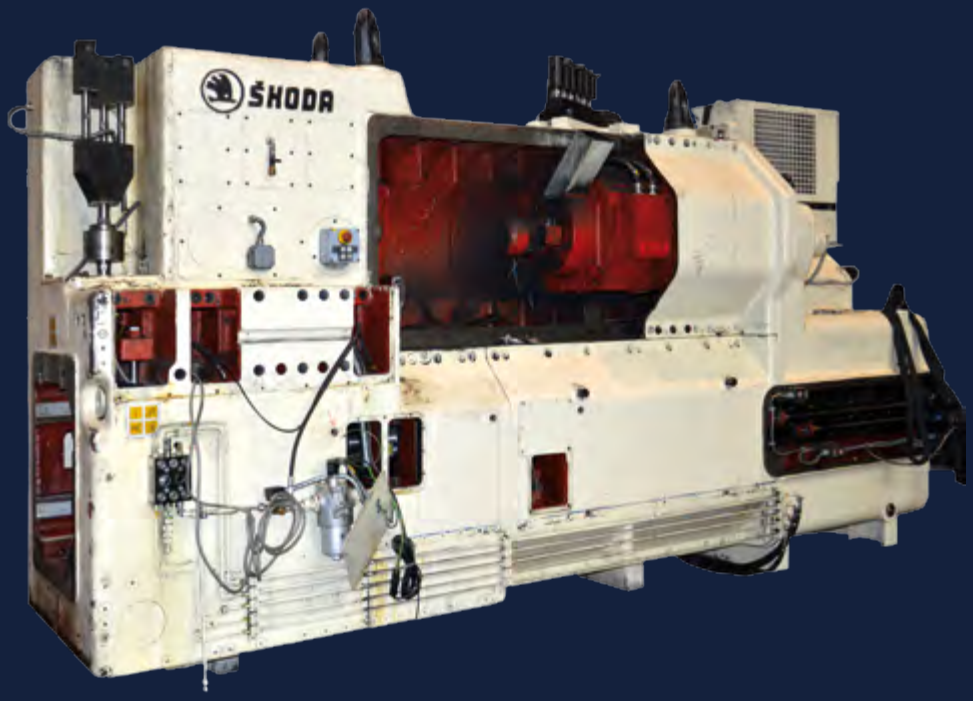
ŠKODA

ŠKODA MACHINE TOOL

GET MAXIMUM FROM YOUR ŠKODA!

OUTDATED? UPGRADE IT!

We know everything about (y)our machine. Who else can say that? At ŠKODA we always try to find ideal solutions for our customers. We offer flexible options for overhaul and modernization of your machines. All genuine ŠKODA parts are manufactured to precise specifications and according to our original documentation.
ŠKODA unique modernization solutions are built on our 105-year expertise. They are made to improve your machining vital performance, enhance your productivity and maximize your revenues.
Every modernization we do is built on a promise of quality, built by the world's leading manufacturer and most importantly, built to be customized by you.
Same old machine. Brand new performance



WHAT IS IT POSSIBLE FOR?

- Every ŠKODA machine
- Every ŠKODA rotary table
- Every ŠKODA lathe
- Every ŠKODA accessories
- Other manufacturers' machines

CONTACT US AND GET UP TO 40% MORE FROM YOUR ŠKODA MACHINE!

WHAT WILL YOU GET?

- Productivity increase
- Reduced cutting time
- Minimal downtime
- Original parts
- Unique know-how
- Original documentation
- No need to build foundation
- Buyback option
- Using of renovation funds
- Better positioning accuracy
- Warranty from OEM

MORE EFFICIENCY, BETTER MACHINE, LOWER COSTS...

MODERNIZATION & OVERHAULING

CHOOSE THE RIGHT UPGRADE LEVEL!

GENERAL OVERHAUL

- CNC system upgradation or retrofit
- New hydrostatic guiding
- Increase of positioning accuracy
- Up up to 3.7 times faster feed rates
- New spindle seating
- Master-slave gearbox
- Ram's dropping compensation system

NEW HEADSTOCK

- New spindle seating
- Up to 4 times more rpm
- Up to 5 times faster feed rates
- Spindle travel up to 1 500 mm
- Ram travel up to 2 500 mm

COMPLETE (NEW HEADSTOCK AND COLUMN)

- The same performance as of a new machine
- Perfectly fits to existing bed and foundation
- No additional building operations
- Much cheaper than a new machine
- Complete warranty
- Rapidly shorter cutting time

MACHINING TIME SAMPLE – BORING OPERATION:

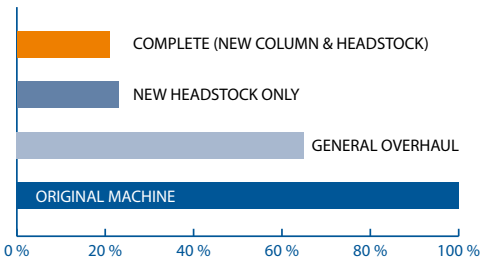
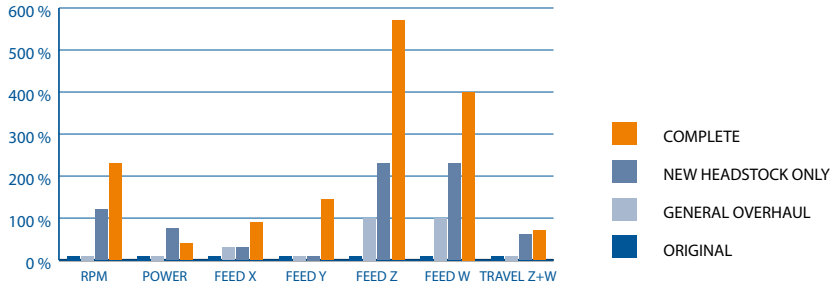


DIAGRAM OF PRODUCTIVITY



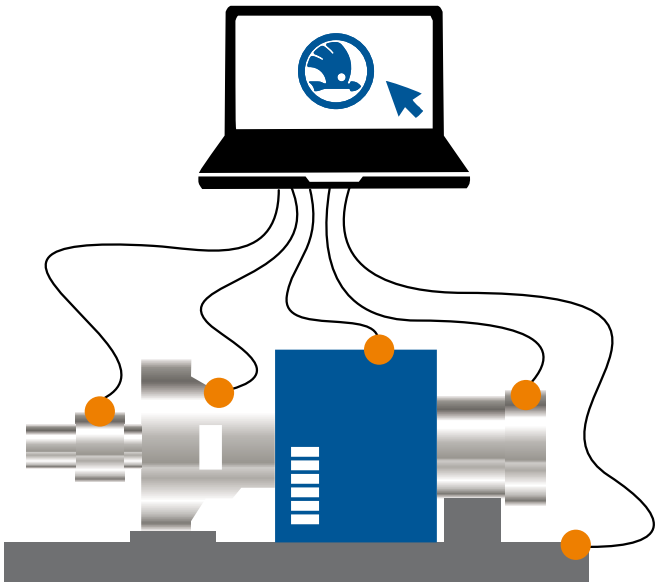
ŠKODA MACHINE TOOL

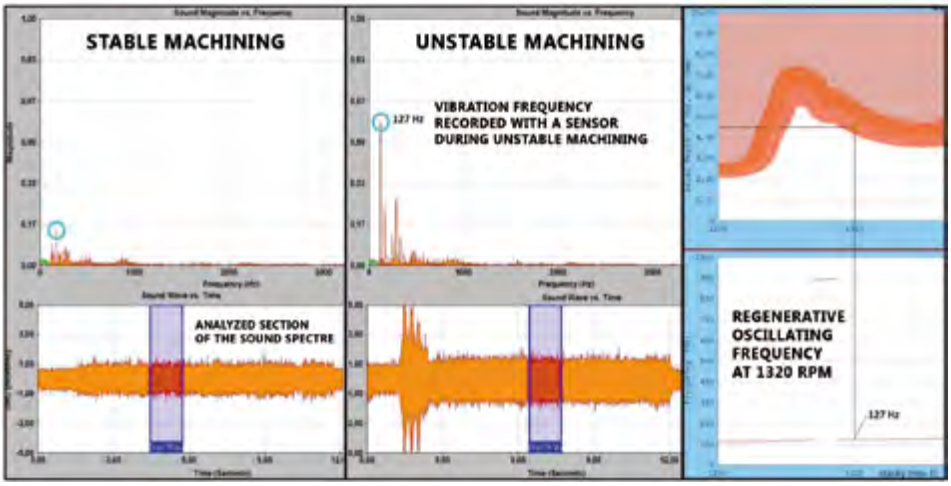
VIBRODIAGNOSTICS

SERVICE

HVD HEADSTOCK VIBRATION DIAGNOSTIC

Headstock Vibration Diagnostic uses acceleration sensors and natural frequency measurement of respective components.
It is used during run-in process, test procedure, machine operation, maintenance and service HVD also helps detect and eliminate defects of bearings and gears, unbalanced rotary parts, damage of gearboxes and low or excessive lubrication. Furthermore, the diagnostic system extends the machine's lifetime and eliminates unpredicted machine breakdown.
With HVD, our customer extends machine monitoring posibilities, stored information for service and maintenance, predictive maintenance during machine lifetime as well as the machine's availability or maximum load limits.





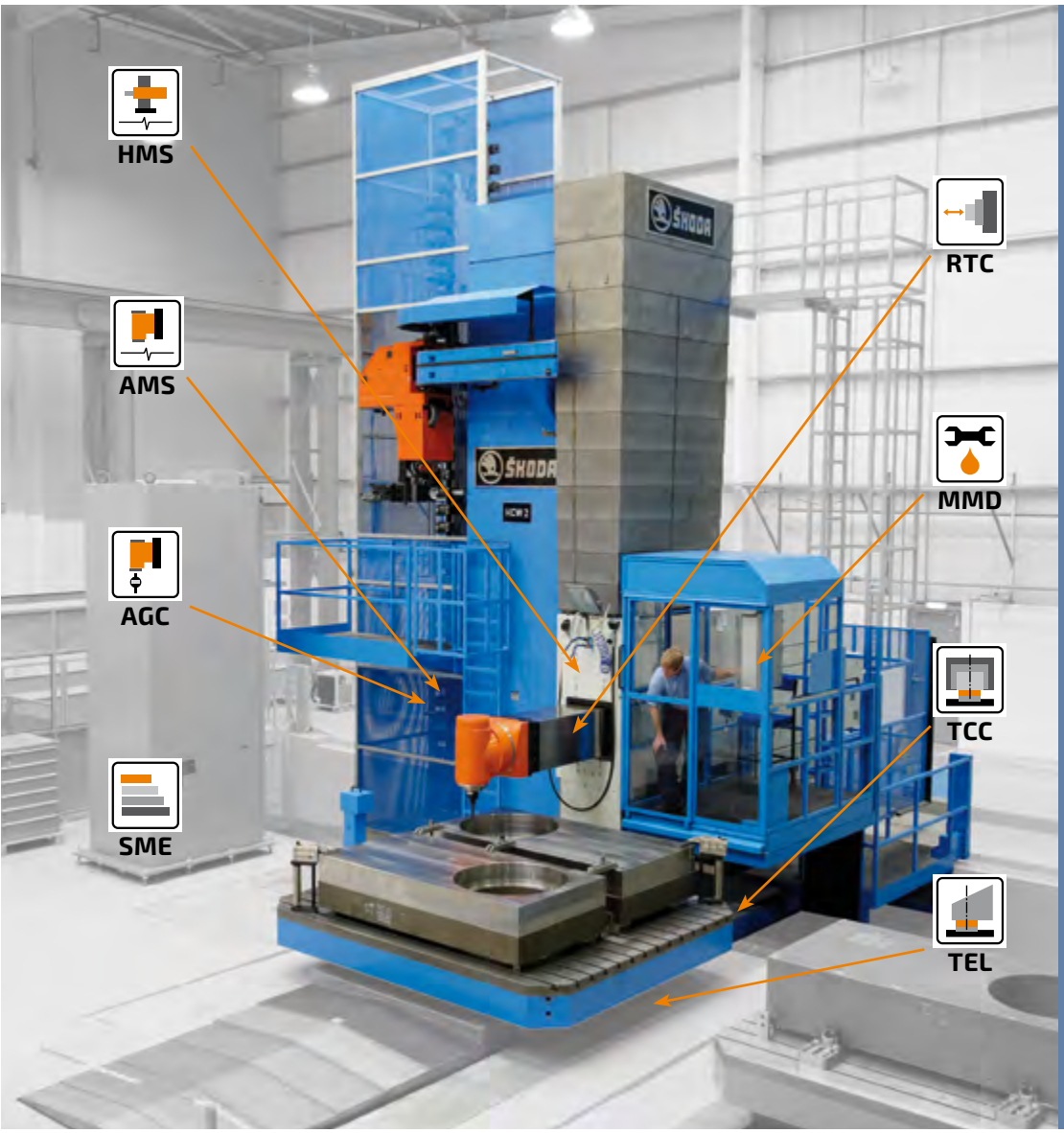
SERVICE

Please contact us at:
- service@skodamt.com
- hot-mail@skodamt.com

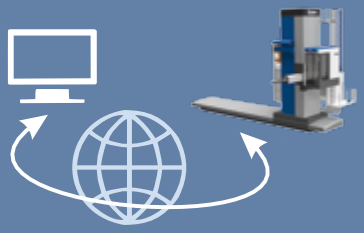
HOTLINE:
+420 735 799 799

CONTACT FORM

ŠKODA MONITORING SYSTEM



Through various modern technologies, Škoda improves preventive and predictive maintenance to its highest level to improve the efficiency, precission and reliability of the machine as well as sustainability of production.
Preventive maintenance is based on number of factors including experience, machine age and use, manufacturers recommendations etc.
Predictive maintenance is determined by machine condition and also the average or expected life statistics. This methodology tries to predict the failure before it actually happens by directly monitoring the machine during normal operating condition. When predictive analysis spots an issue, the repair can be scheduled at the right time that minimizes the impact on production.



REMOTE DIAGNOSTIC SYSTEM

AGC | Attachment Geometry Calibration by automatic measurement and correction of geometry parameters

AMS | Attachment Monitoring Sensors for continuous monitoring and predictive maintenance of each attachment

HMS | Headstock Monitoring Sensors for continuous monitoring and predictive maintenance of headstock

MMD | Machine Maintenance Diagnostic by dialogue screens to remind scheduled maintenance intervals of machine, rotary table and each attachment

TEL | Table Excentric Load by rotary axis hydrostatic function and axial bearing

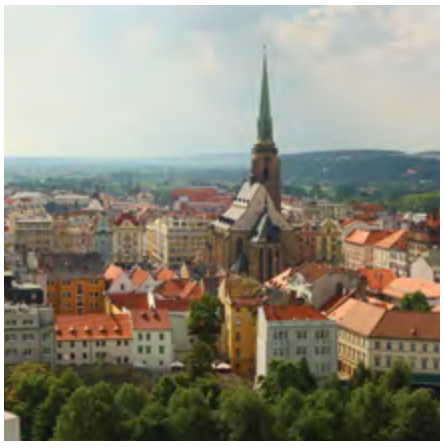
TCC | Table Control Calibration by automatic set of rotary axis control parameters according to workpiece inertia

RTC | Ram Thermal Compensation by automatic elimination of thermal dilatation

SME | Skoda Machine Efficiency by energy and space saving

ŠKODA MACHINE TOOL

SEE US IN PLZEŇ...



PLZEŇ - City centre

PILSNER URQUELL brewery

Main square with townhall

ŠKODA MACHINE TOOL

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  Tylova 1/57 | Plzeň 301 00
  CZECH REPUBLIC

- BRANCH OFFICE MOSCOW
  AO ŠKODA MACHINE TOOL
  3-ya Tverskaya-Yamskaya str. 31/25
  125 047 Moscow | RUSSIA

- Eastern ŠKODA (Shenyang)
  Machine Tool Modernization Co., Ltd.
  110 013 Shenyang | CHINA
- Shanghai sales and service office

ŠKODA MACHINE TOOL

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