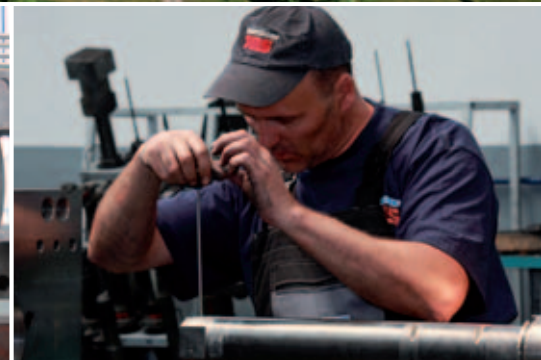
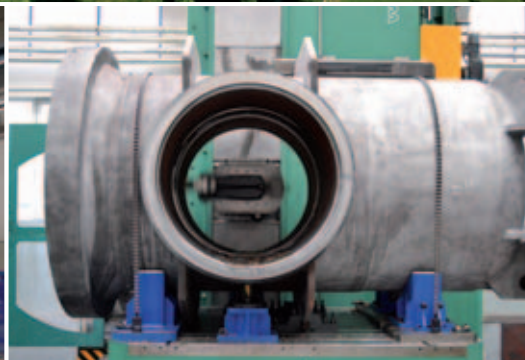


Your partner for future machining

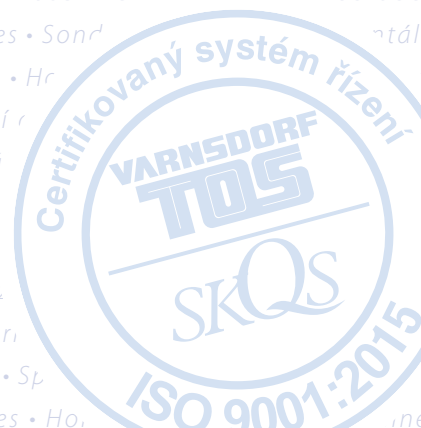


# COMPANY PROFILE

## TOS VARNSDORF a.s.

**Milling machine manufacturer**

...ntainí vyvrt  
 ...tra • Machinir  
 ...rtávačky stolo  
 ...loor type horizont  
 ...Horizontal Bearbeitungscentr  
 ...horizontal milling and boring machin  
 ...tal boring mills • Horizontal Plattenboh  
 ...s • Horizontal Bearbeitungscentren • Speciální stroje • Special machin  
 ...horizontal milling and boring machines • Horizontal Tischbohrmaschine  
 ...ntál  
 ...vrtávačky stolové • Horizontal milling and boring machines • Horizontal Tischbohrmaschinen • Hr  
 ...Floor type horizontal boring mills • Horizontal Plattenbohrmaschinen • Horizontální obráběcí r  
 ...ntal Bearbeitungscentren • Speciální stroje • Special machines • Sondermaschinen • Horizontá  
 ...illing and boring machines • Horizontal Tischbohrmaschinen • Horizontální vyvrtávačky des  
 ...ills • Horizontal Plattenbohrmaschinen • Horizontální obráběcí centra • Machining centres  
 ...peciální stroje • Special machines • Sondermaschinen • Horizontální vyvrtávačky stolové • Hori  
 ...Horizontal Tischbohrmaschinen • Horizontální vyvrtávačky deskové • Floor type horizontal bor  
 ...maschinen • Horizontální obráběcí centra • Machining centres • Horizontal Bearbeitungscentren • Sp  
 ...Sondermaschinen • Horizontální vyvrtávačky stolové • Horizontal millina and boring machines • Ho



## PRODUCER OF PRECISE MACHINE TOOLS

Company TOS VARNSDORF a. s. situated in Varnsdorf, Czech Republic has a years-lasting tradition in machine tool production. The company was founded, under the name of Arno Plauert machine Works, as early as 1903 and up to now it grew up into a big engineering company, known with its products all around the world.

The company develops, produces and sells machine tools, complemented by a wide range of services. It has its own design team to develop the machines and a strong manufacturing base to produce them.

The company manufacturing programme includes four groups of products: table-type machine tools for universal purposes and high-performance parts machining, large WRD-series floor-type machine tools for demanding technological operations performed on the largest workpieces, machining centers for usage of state-of-the-art technologies with the most progressive modern tools and gantry-type machining centres for general high-performance, high-precision machining of steel and cast iron parts.

The services provided for these products cover both training in controlling and programming the machines and technological studies as well as preparation and also consultation services for placing the machine in a shop or building and the foundation for the machine. The company has a strong service team to carry out all warranty requirements and customer services.

In addition, the company provides for the services in the form of outwork offers (Metalworking, Measuring services, Chemical and Heat Treatment of Metals).

**7 production shops = 32 776 m<sup>2</sup>**



**468 employees**

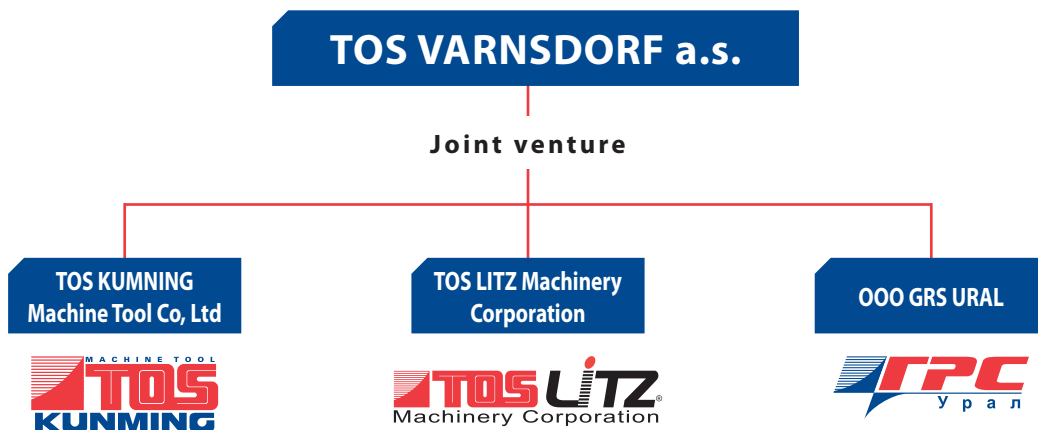
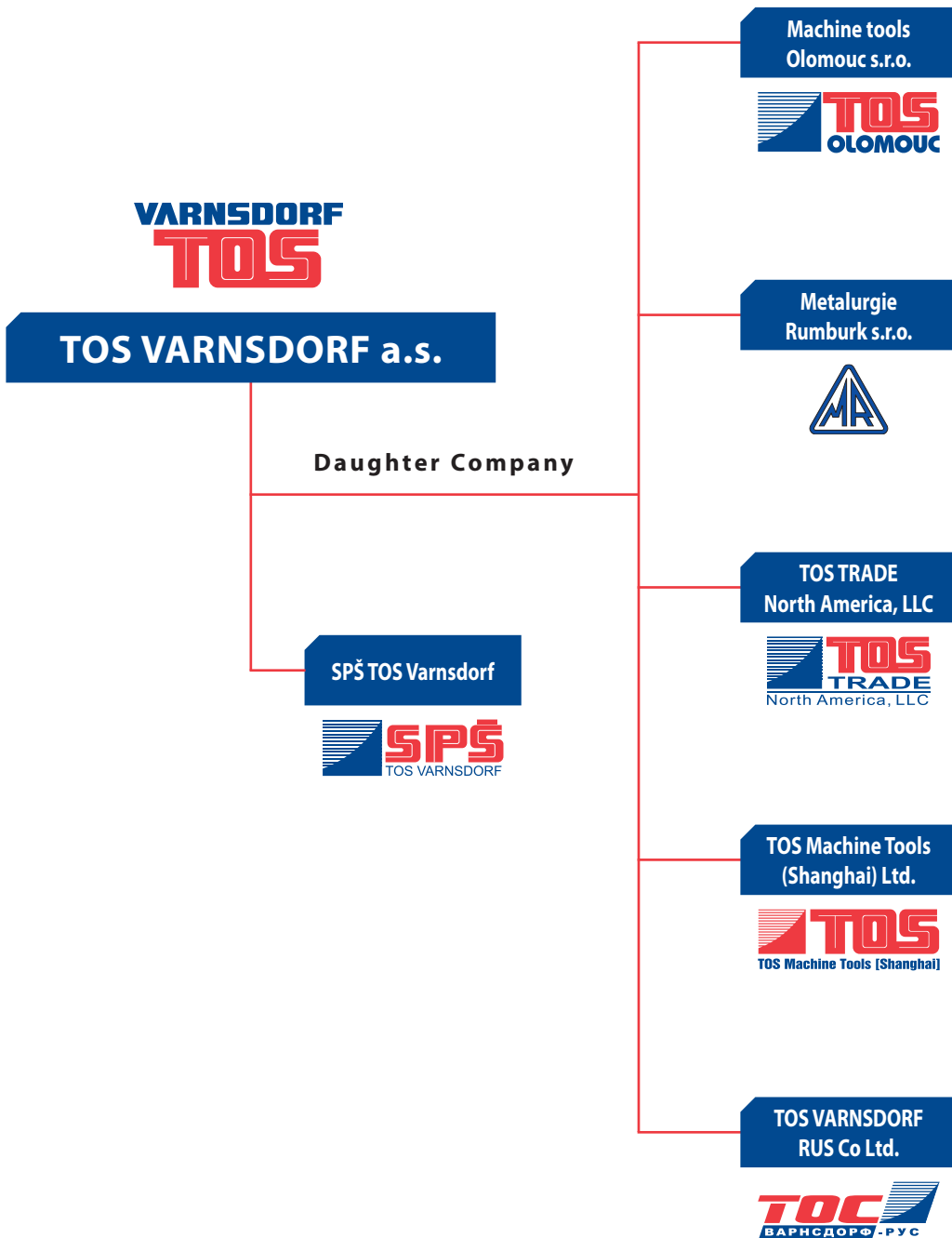


**Turnover in 2019 = 53,4 mil. EUR**



The quality of our management and production system is documented by a certificate ISO 9001, granted in 1996, and its recertification to ISO 9001:2015, performed in May 2018.





# History

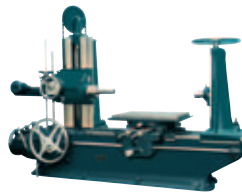
Establishment of machine works ARNO PLAUERT, production of simple lathes, horizontal shapers, planes and drills.



▶ 1903

First HB drawing created (1912). Start of production of precise horizontal boring and milling machines.

First HB horizontal machine manufactured (1915).



▶ 1915

Production of a company increases dynamically reaching 600 lathes, 150 milling machines, 100 boring machines, 40 drills, 30 automatic machines, 20 shaping machines and 10 metal saws.

▶ 1920–1930

Privatisation of state company by direct sale, TOS VARNSDORF s.r.o. created.

Change of legal form to joint-stock company.

ISO 9001 certificate granted by Swiss company SQS and Slovak company SKQS.

First WHN 130 and WHN 130 MC machine manufactured.

Publication of first issue of the company newspaper HORIZONT.



Concept created for floor type horizontal boring mills WRD.

Concept created for new technology of the range TOStec.



▶ 1996

▶ 1997

▶ 2000

Prototype of TOStec GRATA manufactured.

Prototype of TOStec VIVA manufactured.

Establishment of company TOS KUNMING Machine Tool Co., Ltd. in China.



Establishment of company TOS TRADE Canada, Inc.

Establishment of company TOS TRADE North America, LLC in USA.



Prototype of SPEEDtec manufactured.

Turnover of 120.28 mil. EUR exceeded for the first time.



▶ 2005

▶ 2006

▶ 2008

Establishment of company TOS Varnsdorf RUS Co., Ltd.



Establishment of company OOO GRS Ural.

New machining center WHtec 130 manufactured.



New fully hydrostatic floor type machine WRD 180 H manufactured.

New table type machine WHR 13 (Q) manufactured.



▶ 2012

▶ 2013

▶ 2014

Establishment of a standalone subject called TOS VARNSDORF, national enterprise; the horizontal borers production becomes the major manufacturing program.



▶ 1950

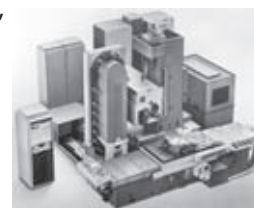
First WHN 13 CNC machine manufactured, which later became the most successful machine of the company production program.



▶ 1969

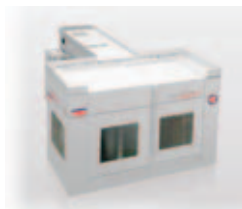
Export starts to predominate. Over 60 % of the production is exported worldwide.

On January 1, 1980 the TST concern is created.



▶ 1970–1980

Prototype of TOStec OPTIMA machine manufactured.  
Turnover of 44 mil. EUR exceeded for the first time.



▶ 2001

Prototype of TOStec VARIA machine manufactured.  
Company SCHIESS-TOS GmbH established.  
The first version of project TOS ON-LINE was created.

Celebration of 100th anniversary of establishment of company.  
Prototype of TOStec PRIMA machine manufactured.



▶ 2002

▶ 2003

Start of cooperation with the company Strojirna TYC.  
Manufacturing of prototype for technological workplace WRD 150 DUO.

Prototype of WRD 170 Q machine manufactured.



Establishment of company TOS SHANGHAI.  
Establishment of company TOS India.



▶ 2009

▶ 2010

▶ 2011

Establishment of company TOS LITZ Machinery Corporation.



First machine of the WHT 110/130 (C) series manufactured.



▶ 2017

Prototype of WVM 2600 T machine manufactured.



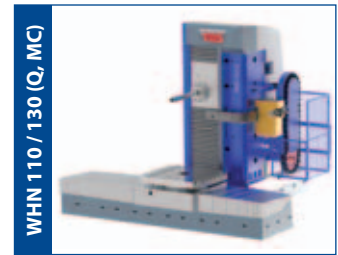
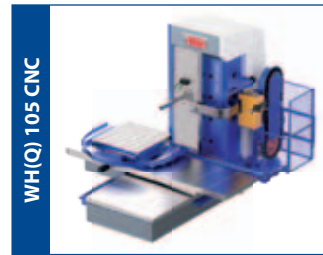
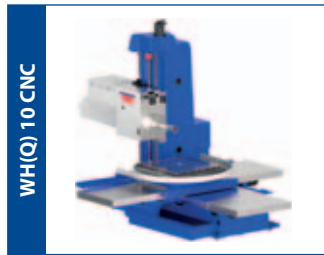
▶ 2019

▶ 2016

# Production program

## HORIZONTAL MILLING AND BORING MACHINES

WH(Q) 10 CNC  
WH(Q) 105 CNC  
WHN 110 / 130 (Q, MC)  
WHN(Q) 13 / 15 CNC  
WHR 13 (Q)  
MAXIMA I / II



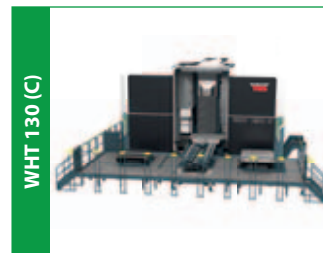
## FLOOR TYPE HORIZONTAL BORING MILLS

WRD 13(Q)  
GRATA  
WRD 130 / 150 (Q)  
WRD 170 (Q)  
WRD 180 H



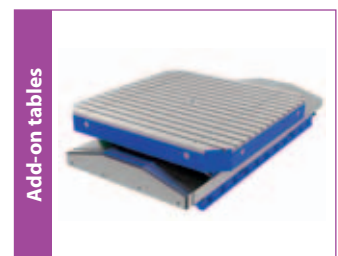
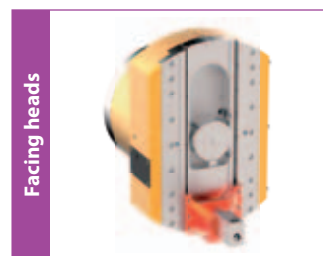
## MACHINING CENTRES

WHT 110 (C)  
WHT 130 (C)



## ACCESSORIES

Milling heads and attachment  
Facing heads  
Add-on tables  
Clamping equipment  
Cooling equipment



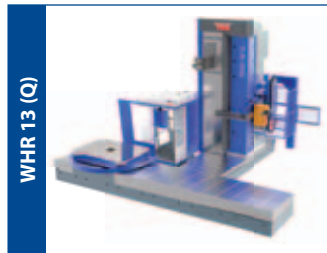
## COMPLETE INFORMATION ABOUT THE PRODUCTION PROGRAM AND TECHNICAL PARAMETERS OF MACHINES AND ACCESSORIES

you can find on:  
[www.tosvarnsdorf.cz/en/products](http://www.tosvarnsdorf.cz/en/products)





WHN(Q) 13 / 15 CNC



WHR 13 (Q)



MAXIMA I / II



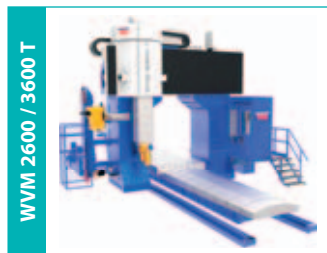
WRD 170 (Q)



WRD 180 H

## PORTAL MILLING MACHINES

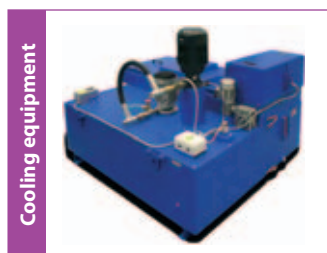
WVM 2600 / 3600 T



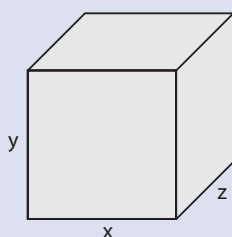
WVM 2600 / 3600 T



Clamping equipment



Cooling equipment



>  $1 \text{ m}^3$  (0.01mm)

$x > 1 \text{ m}$   
 $y > 1 \text{ m}$   
 $z > 1 \text{ m}$

WE SUPPLY TECHNOLOGIES FOR THE MACHINING OF COMPONENTS ALLOWING MACHINING IN A WORK SPACE:

- LARGER THAN  $1 \text{ m}^3$
- WITH A PRECISION OF 0.01 mm

## THE FAULT-FREE FUNCTIONING OF NEWLY MANUFACTURED MACHINES IS CHECKED BY A HIGHLY DEMANDING OUTPUT TEST CONSISTING OF:

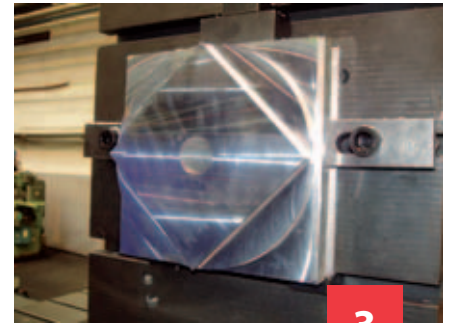
- checking of geometric accuracy of machine according to the international standard ISO 3070-1,2,3 (1)
- checking accuracy of machine position when running to a position pursuant to German standard VDI/DGQ 3441 (2)
- checking of working accuracy of machine by machining the testing workpiece „NASA“ (3)
- maximum load machining test for machine (4)



Measuring of machine accuracy



Test of accuracy in positioning (measuring by the laser)



Testing workpiece „NASA“



Machining check of machine with maximum feed and load

The greatest know-how of the company is

**THE SUPER-PRECISE PRODUCTION OF THE MAIN HOUSING OF SPINDLE WITH A PRECISION OF 0.001 mm** performed in a climatecontrolled shop.

**ZEISS**

We ensure the thorough checking of manufactured parts with a modern, climate-controlled measuring centre equipped with cutting-edge coordinate measuring machines from the worldfamous manufacturer ZEISS.





**COMPREHENSIVE OFFER OF CUSTOMER SERVICES**

- before buying (1)
- within buying (2)
- overhauls and modernizations (3)
- we offer the capacity for external contracts for metalworking, measuring and chemical and heat treatment of metals – cooperation (4)
- remote diagnostics of machine – *TOSwide*, *TOSmessage* (5)



Technological solutions

1



Training for operators and maintenance workers

2



Spare parts, overhauls and modernizations

3



Metalworking

4



*TOSwide* – remote diagnostics

5

**COMPLETE OFFER OF THE SERVICES**

you can find on:  
[www.tosvarnsdorf.cz/en/services](http://www.tosvarnsdorf.cz/en/services)



List

## of important customers of TOS VARNSDORF

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# CATERPILLAR



# BELAZ

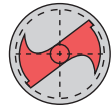


# ŠKODA

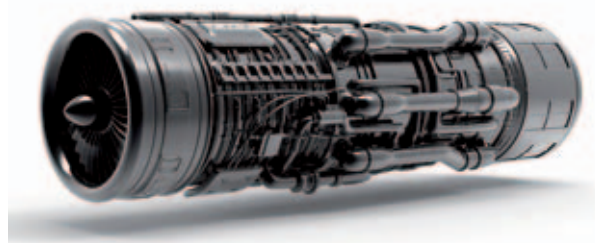


# SIEMENS





**Mega metal**  
d.o.o.





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