



Date: 24<sup>th</sup> March 2021

## Heavy Duty lathe type: TCF 200 x 10000

### Technical data:

• Manufacturer	FUM POREBA
• Year of overhaul by ZAK company	2021
• Centre height	1000 mm
• Swing over bed	2000 mm
• Turning diameter / swing over carriage /	1600 mm
• Turning length	10 000 mm
• Spindle bore	Ø 105 mm
• Main power motor	71 kW
• Maximum torque of the spindle	40 000 Nm
• Chuck plate dia.	Ø 1600 mm
• Tooling system : tool turret or double-shelf toolholder - to be agreed	
• Control system : Sinumerik 840 D sl	
• Number of spindle speeds	3
• Spindle speed ranges	250 rpm ( for the chuck dia. 1600)
• Longitudinal / cross rapid traverse	4000 mm
• Tailstock quill dia.	Ø 280 mm
• Tailstock quill travel	200 mm
• Load carrying capacity :	
max. weight of workpiece in centers:	30,000 kg
max. weight of workpiece in centers with	
one steady rest	35,000 kg
two steady rests	40, 000 kg



## Lathe dimensions and weight :

- height 2400 mm
- width 3000 mm
- length 15700 mm ( turning length + 5700 mm)
- weight of the lathe TCF200 x 10 m : 46,000 kg

## Scope of overahul :

The lathe TCF 200 x 10m will be totally disassembled for the overhaul.

- Bed and carriage guideways are ground and matching surfaces lined with antifriction material.
- Headstock and tailstock – replacement of all used parts ( all new bearings ).
- Carriage – replacement of all used parts and installation a new ball screw for X axis drive
- Drive system for Z axis - REDEX /brand new/;
- Installation of the new CNC system Sinumerik 840 D sl with PLC program;
- Installation of the new feed drives from Siemns with power 50 Nm
- Installation of the new control cabinet and control panels;
- New wiring/ cables and all electrical equipment;
- New painting and new geometry as per ISO 1708