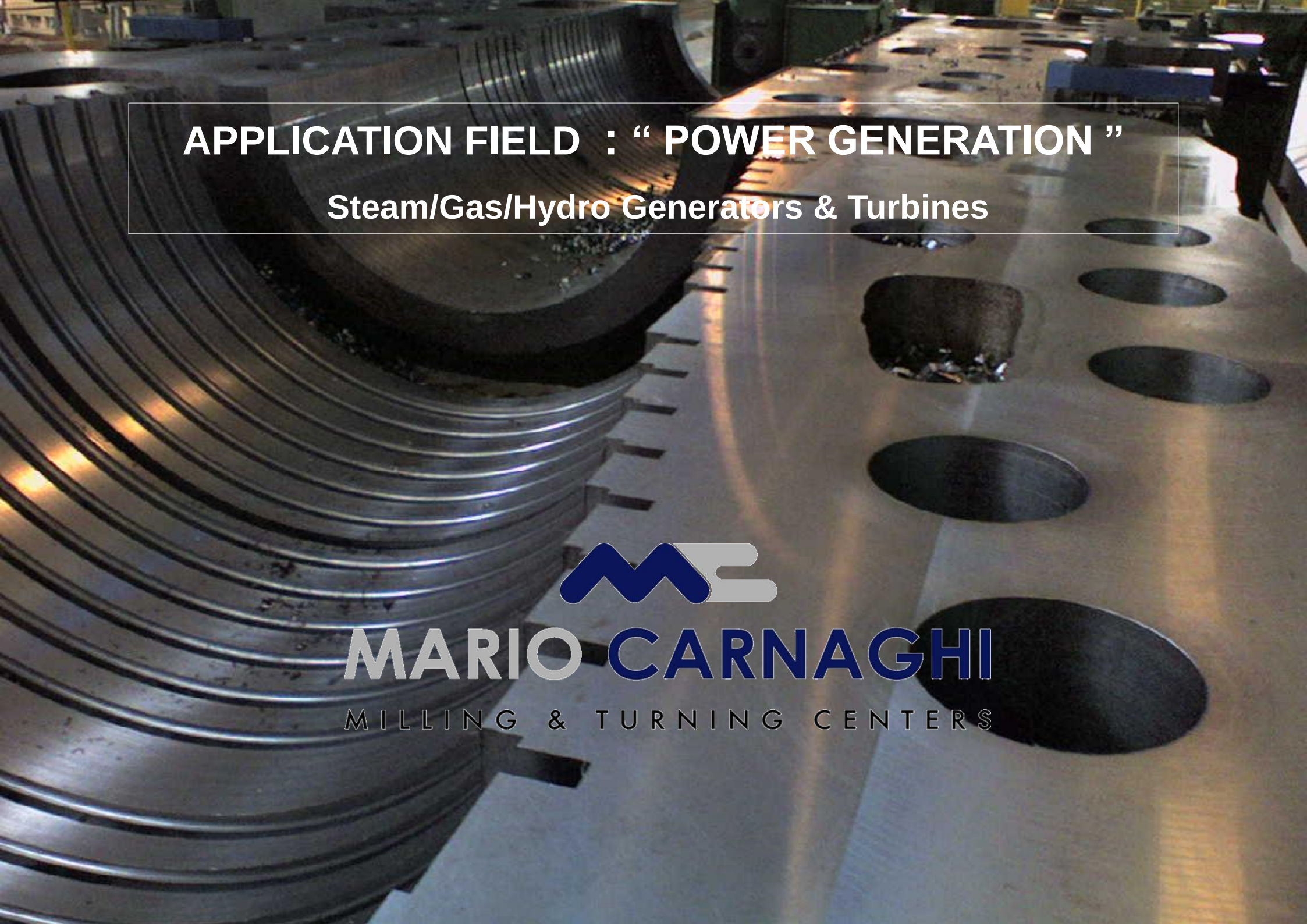


APPLICATION FIELD : “ POWER GENERATION ”

Steam/Gas/Hydro Generators & Turbines

MARIO CARNAGHI

MILLING & TURNING CENTERS

Power generation : machinings on turbine cases up to 80/120 MW

•Example of a semi shell of a turbine case on Mario Carnaghi gantry HGHM.50

•COMPLETE TURN-KEY PROJECT : the machine is fully tooled-up (tool-holders, tools, inserts and fixtures) for the complete machining of the piece from its casting to its finishing

FULL MACHINING

Our tooled-up gantry machine is able to perform the complete machining cycle of the turbine :

- **FACE MILLING & DRILLING**
- **GROOVES ROUGHING & FINISHING**
- **HOLE BORING**
- **MILLING OF THE SLOTS**
- **FINISHING OF THE JOINT SURFACES**

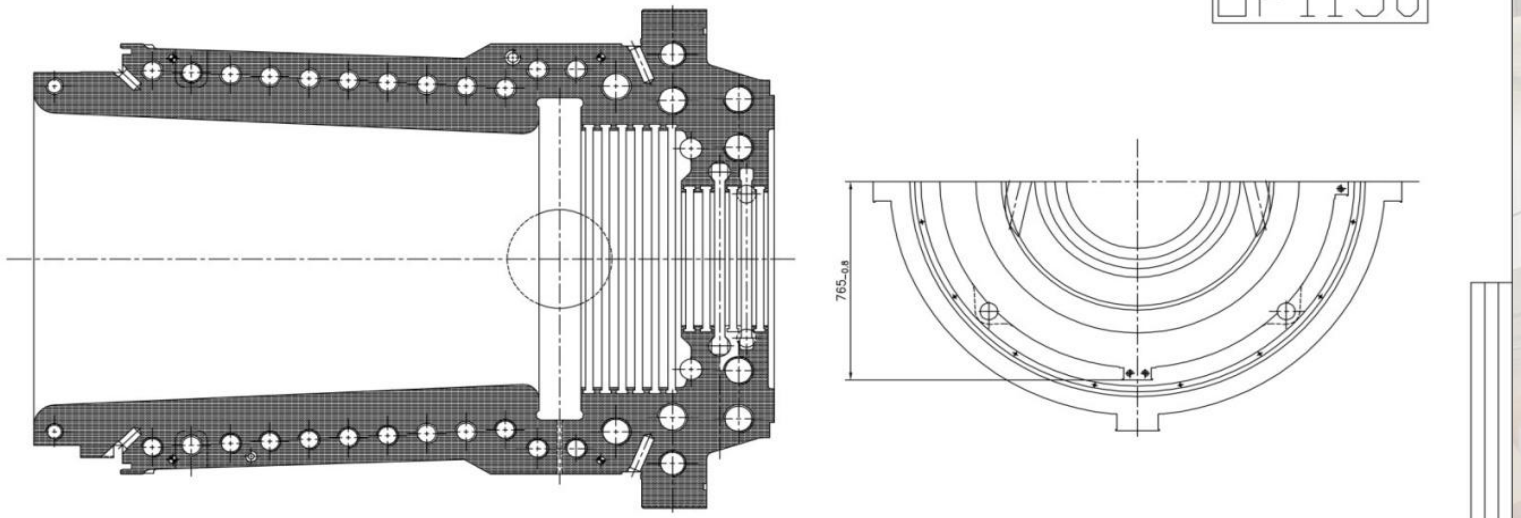
Operations by gantry milling machines, our model HGHM.50/16.000 mm :

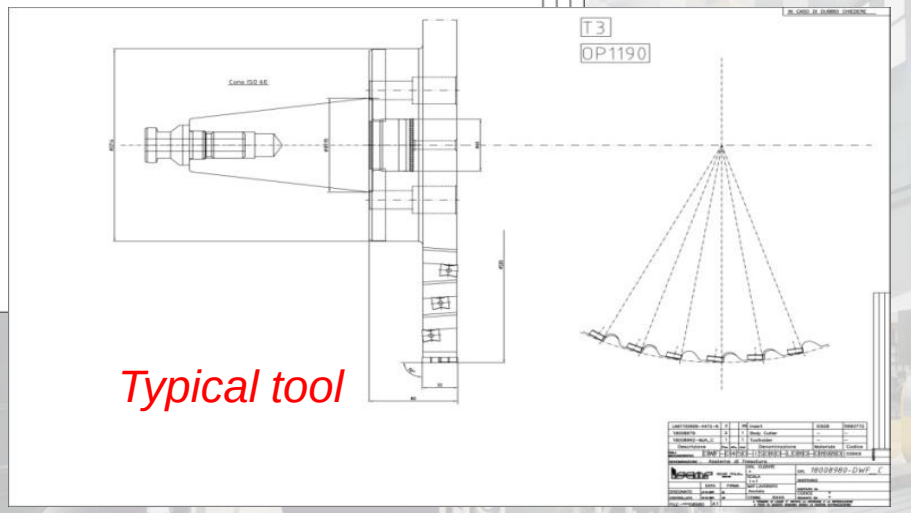
VERSION WITH FIXED PICK-UP STATION FOR THE ATTACHMENTS

VERSION WITH MOVABLE PICK-UP WITH DISPLACEMENT ALONG THE X AXIS

• Contouring by interpolation

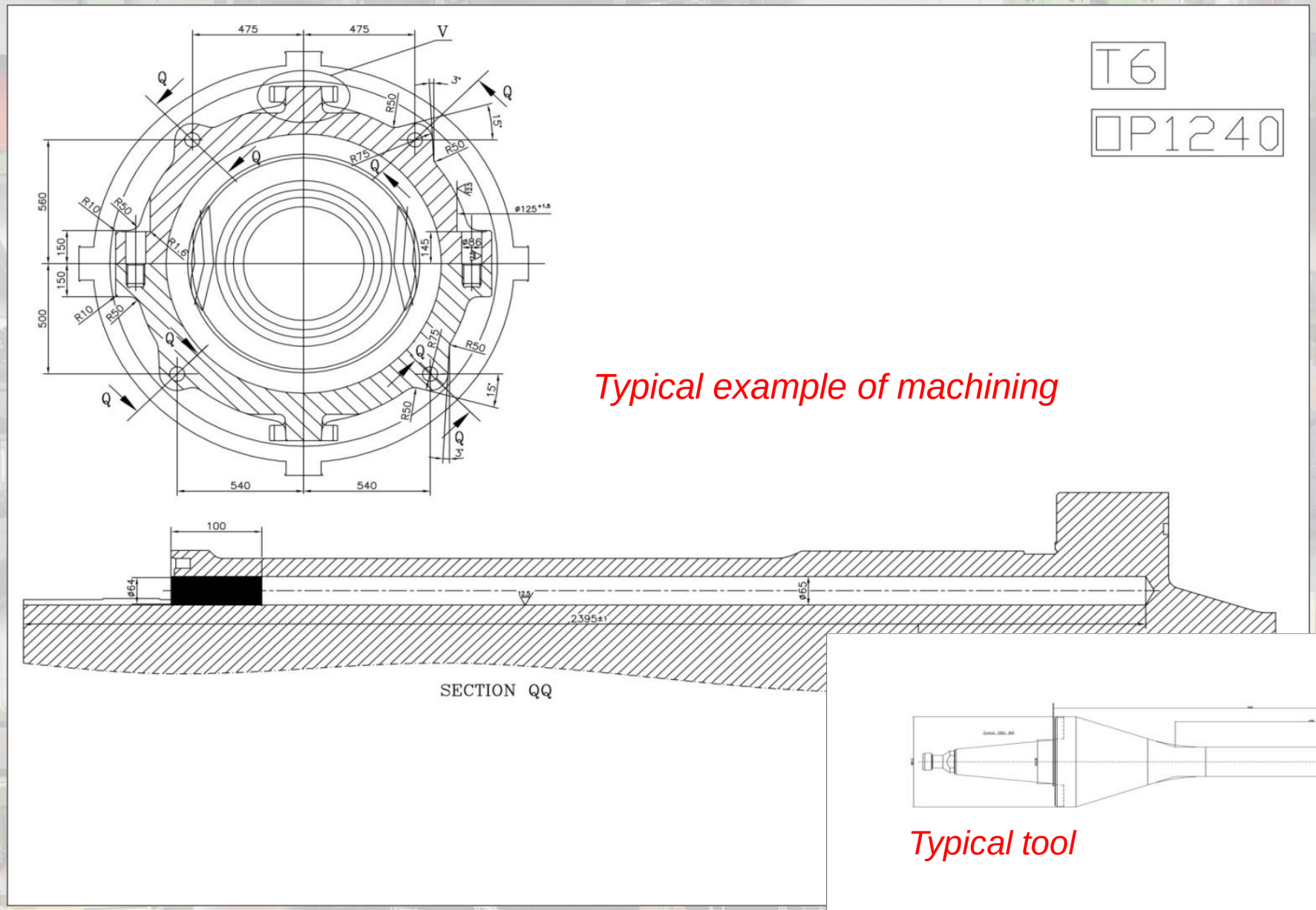
Typical example of machining



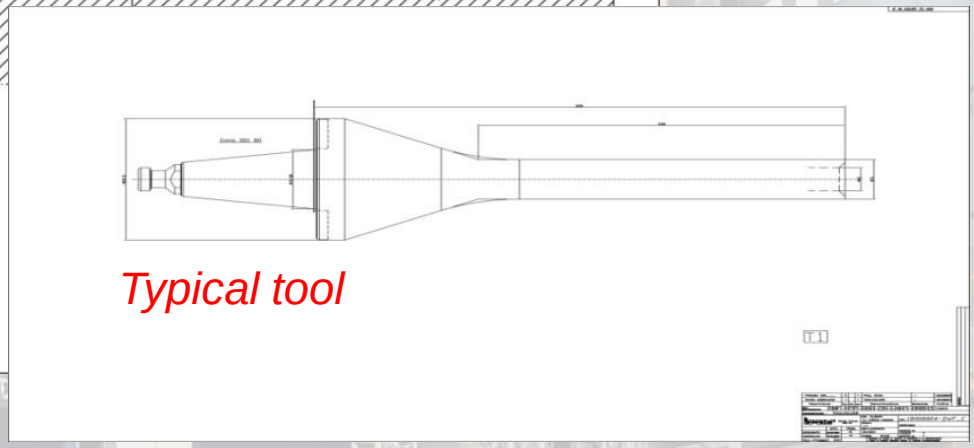


Typical tool

• Deep hole drilling



Typical example of machining



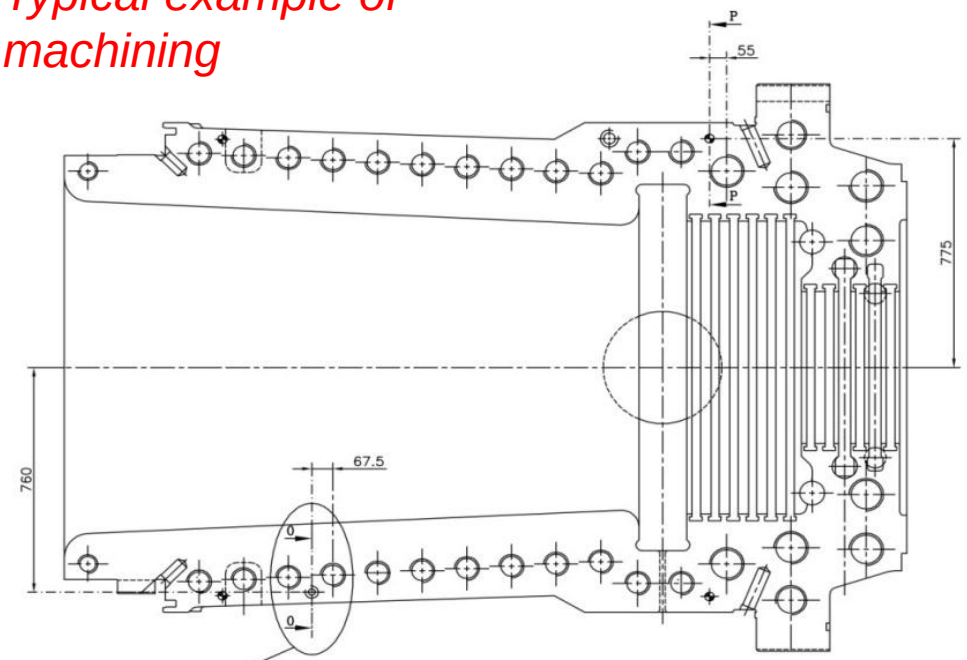
Typical tool

• Coupling holes

T44

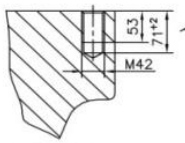
OP1350

Typical example of machining

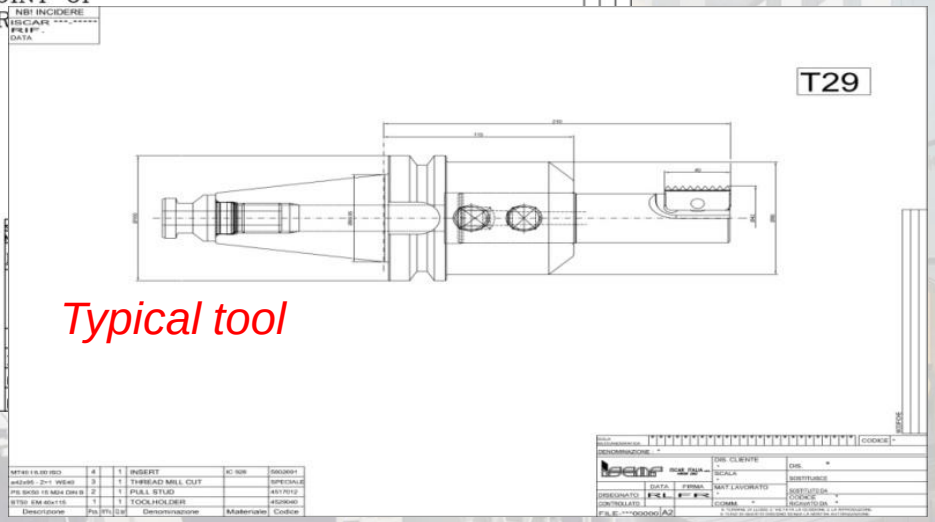


VIEW ON THE JOINT OF LOWER PAR

(SCALE 1:10)



SECTION OO

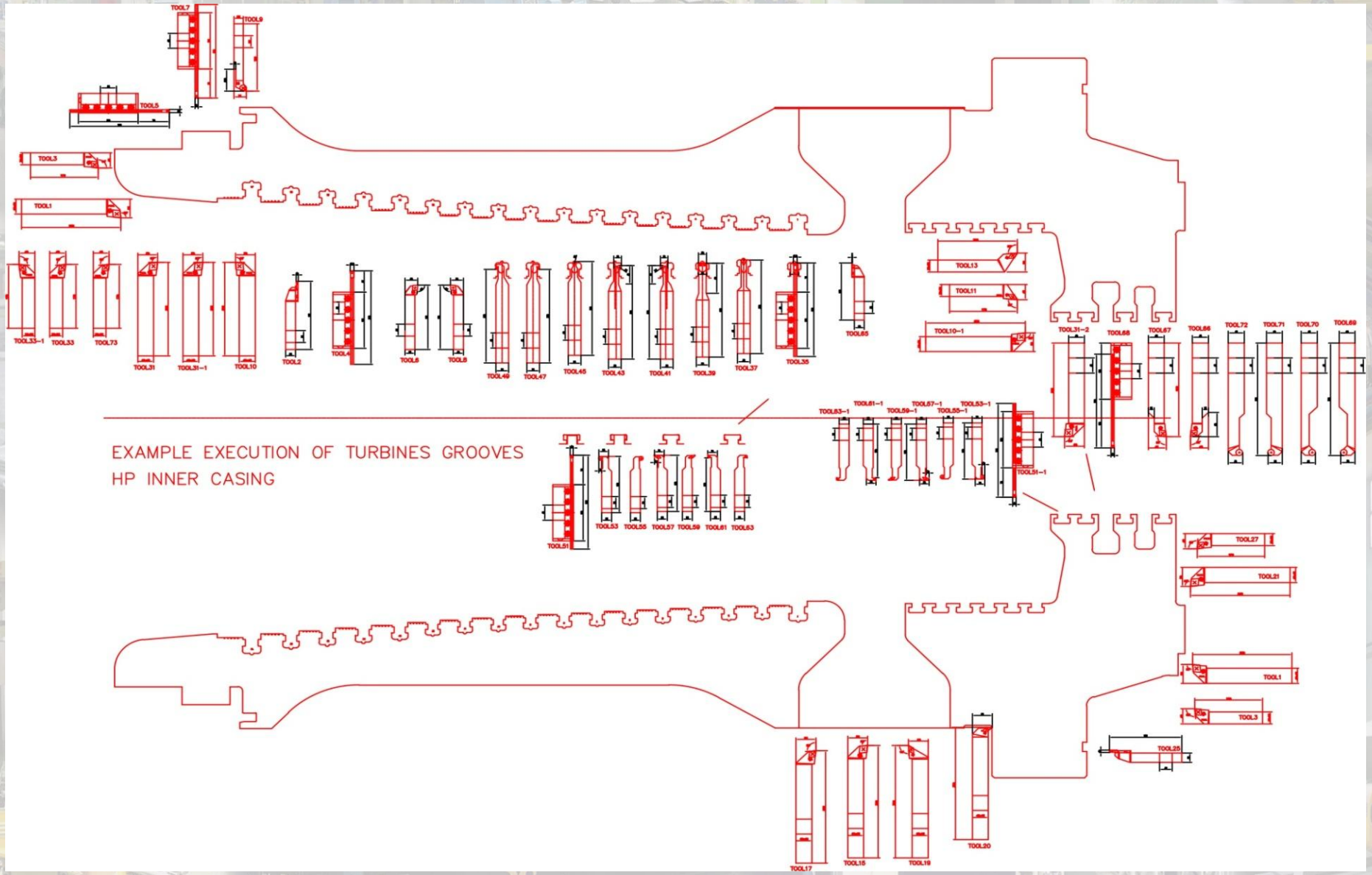


Typical tool

Turbine machinings on our Vertical lathe “TG.40.5500”

Example of turning operations

- **Our tooled-up proposals**



- **Dedicated heads and attachments**

- **up to.....”fixtures & clampings elements“ to clamp your components in safety**