



**TDZ POWER SE**

# HCB 110 CNC/GD

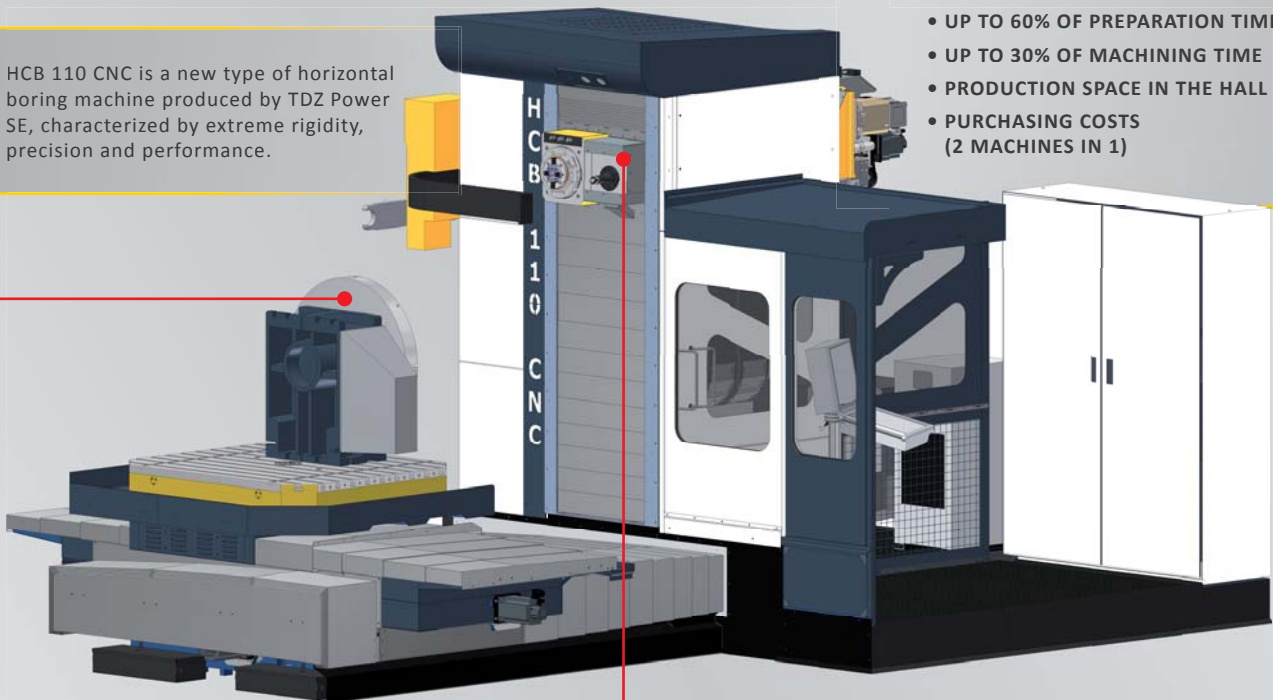
- EFFICIENT MOLD MACHINING

## HORIZONTAL BORING MACHINE WITH ADDITIONAL EQUIPMENT FOR DEEP HOLE DRILLING AND VERTICAL TABLE

HCB 110 CNC is a new type of horizontal boring machine produced by TDZ Power SE, characterized by extreme rigidity, precision and performance.

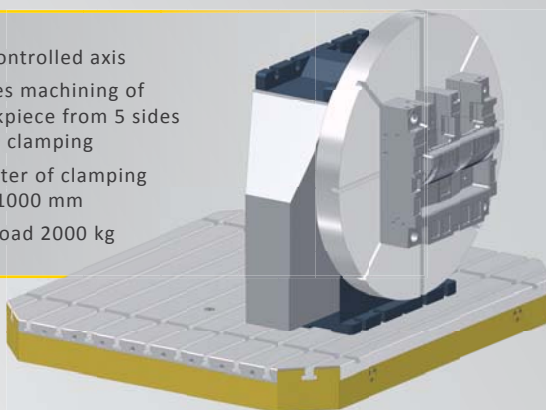
### SAVINGS:

- UP TO 60% OF PREPARATION TIME
- UP TO 30% OF MACHINING TIME
- PRODUCTION SPACE IN THE HALL
- PURCHASING COSTS (2 MACHINES IN 1)

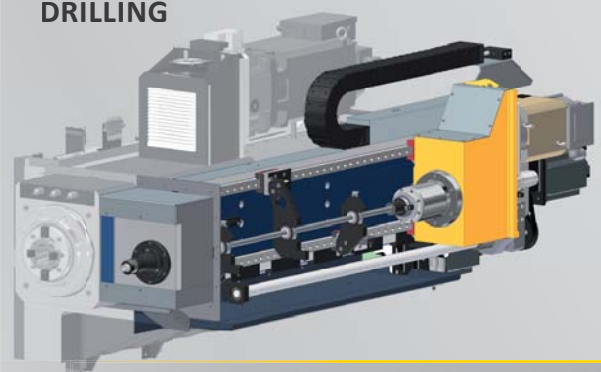


### ADDITIONAL VERTICAL ROTARY TABLE

- CNC controlled axis
- Enables machining of a workpiece from 5 sides at one clamping
- Diameter of clamping plate 1000 mm
- Max. load 2000 kg



### ADDITIONAL EQUIPMENT FOR DEEP HOLE DRILLING



- Drilling with gun drills with diameters from 3 to 40 mm, depth up to 1300 mm
- Max. spindle speed 5000 rpm
- Movement mechanism – servomotor + ball screw + linear guideways
- Tool steady rests
- Guide bush for guiding the drill into the workpiece and for the subsequent removal of chips and coolant into the chip conveyor

### 4 MACHINING OPERATIONS ON ONE MACHINE

- MILLING
- DEEP HOLE DRILLING
- DRILLING
- POSITIONING IN 5 AXES



**FORMPLAST  
PURKERT S.R.O.**

## CASE STUDY: IMPROVEMENT OF PRODUCTION EFFECTIVENESS IN FORMPLAST PURKERT S.R.O.

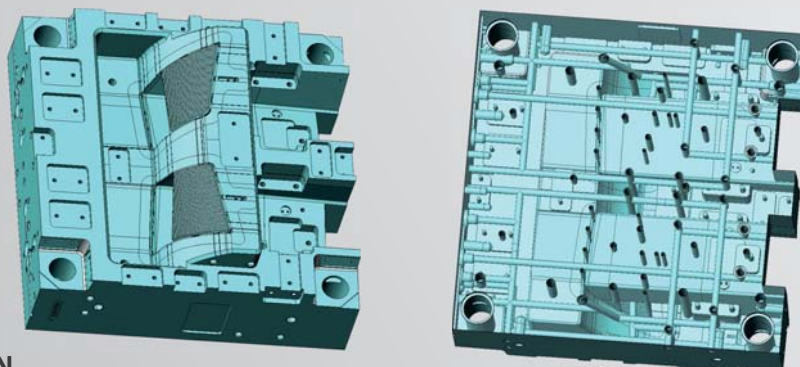
### FORMPLAST PURKERT

Czech company focused on the production of molds and molding of technical parts primarily for the automotive, electrical and textile industries.

Holder of certificates EN ISO 9001:2008, EN ISO 14001:2004 and ISO TS 16949:2009

### WORKPIECE:

Injection mold for the cover glass of car headlight, material 1.2343 ESU



### PREVIOUS TECHNOLOGICAL SOLUTION

Machines in use: vertical milling machine, horizontal milling machine, horizontal boring machine (only for deep hole boring), 3-axis machining center, 5-axis machining center.

Production on 5 different machines, workpiece had to be reclamped 14 times.

### NEW TECHNOLOGICAL SOLUTION BY HCB 110 CNC / GD

Machines in use: horizontal boring machine HCB 110 CNC / GD, 5-axis machining center.

Production on 2 machines, workpiece had to be reclamped only 6 times.



#### ADVANTAGES BY USING HCB 110 CNC / GD

- REDUCTION OF REQUIRED MACHINES FROM 5 TO 2
- REDUCTION OF RECLAMPING TIMES FROM 14 TO 6
- IMPROVEMENT OF DEEP HOLE DRILLING PRODUCTIVITY BY 30% - NO NEED TO DRILL A GUIDE HOLES

SAVINGS OF SECONDARY  
TIMES: **60 %**

SAVINGS OF MACHINING  
TIMES: **30 %**