



TEMPO ECT 632 / 633
TEMPO ECT - Handling
The CNC - Saw Blade Grinding Machines



ECT 633

fully automatic complete processing in one set up
with CBN deep grinding for maximum economic efficiency

CBN for Optimum Grinding Quality and Top Shape Grinding



The Deep Grinding Machine

- For tothing and regrinding
- Chamfering in one set up
- Vario pitch tothing
- For HSS-, segment- and solid tungsten carbide saw blades
- Tooth forms with straight back and curved back as well as special tothing

Construction of the Machine:

- Fully encased work chamber
- High rigidity saw blade guide shaft
- Solid cast construction
- Powerful 4 kW grinding motor
- Powerful grinding slide on linear ball guides
- Brushless servo-motors
- Central lubrication
- High - pressure cooling
- Grinding mist extraction
- Seperate control cabinet
- Noise level 74dB(A)

TEMPO ECT 632 / 633 and version **TEMPO ECT - Handling** with automatic loading system for quality and more profitability. On-screen programming prompts for simple operation.

AUTOPOS (Automatic positioning of the saw blade to the grinding wheel).

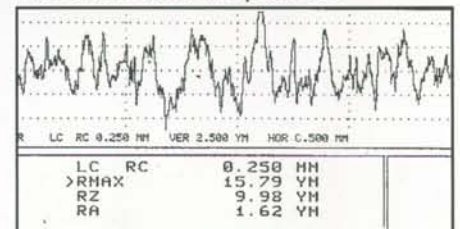
The TEMPOTRONIC High - Speed-Control

- CNC - control for most simple operation and clear user-guidance on the monitor.
- Simple programming and storage of special tooth forms.
- Grinding wheel thickness independent of tooth pitch (up to maximum 45% of the tooth pitch).
- Free choice of rake angle and clearance angle.
- Low grinding wheel consumption.
- **Vario Pitch Program** for grinding of different types of vario tothing
- Fault display on the monitor

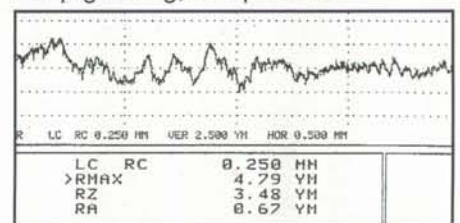
CBN - Grinding

- Optimum surface quality and high geometrical accuracy
- Simple operation
- Reduction in grinding times up to 50%
- Grinding in one revolution (no spark out)
- All tooth pitches in advantageous CBN deep grinding
- Minimum change of grinding wheels
- Just occasional dressing of grinding wheels
- Superior cutting and superior sawing quality
- Increased number of cuts

Comparison of Surface Quality Vitrified Grinding Wheel with 5 rotations of spark out



CBN- Grinding Wheel deep grinding, no spark out



Grinding with no Operator - Around the Clock

ECT- Handling

- The additional shift for more efficiency
- Caotic loading of the machine possible
- Change of saw blades within seconds
- With all advantages of the ECT
- Expansible with modular extension

Manual Loading

All features of the ECT 632 / 633 are applicable for the complete capacity from 60 mm to 630 mm dia.

Automatic Operation with Different Saw Blades and Variable Teeth Data

The Data are input in a PC. Setting of the exact rake angle through automatic swivel angle attachment.

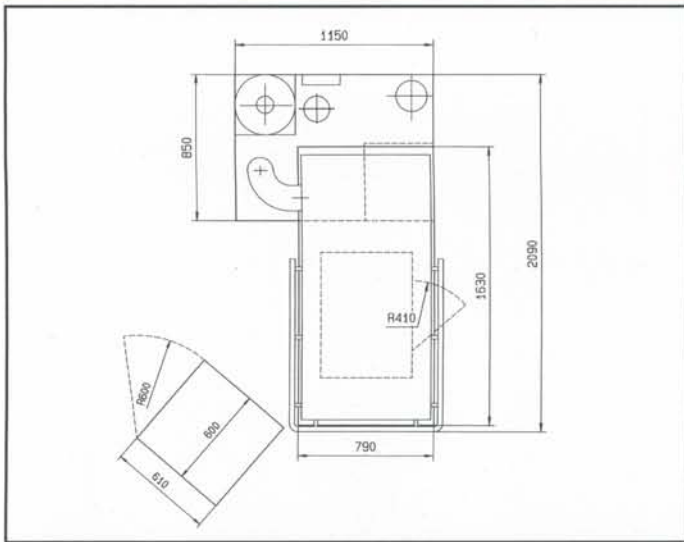


Raw material and finished product magazine, each having a capacity of 180 mm. Industrial robot for the handling of saw blades.

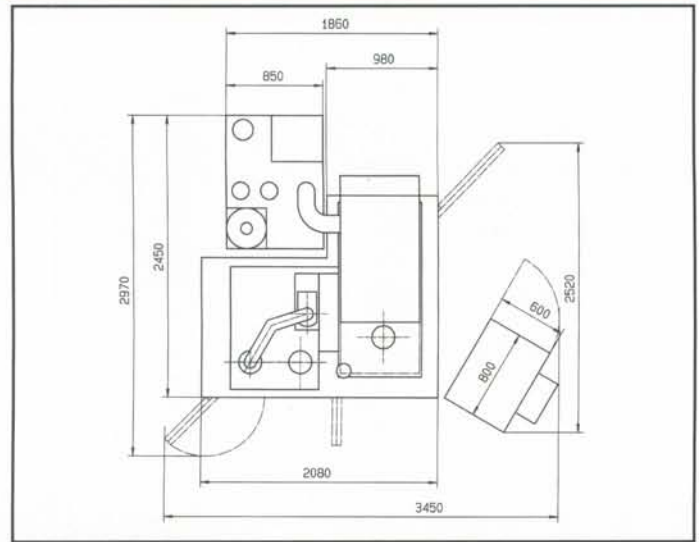


Automatic clamping of the saw blade

Floor Space ECT 632 / 633



Floor space ECT - Handling



Technical Data

ECT 632 / 633

ECT - Handling

Grinding range saw blade dia.	mm	60 - 630	60 - 630
automatically loading	mm	-	180 - 420 (460)
Saw blade thickness	mm	max.6	max. 6
Indexing speed (infinitely variable)	teeth / min	3.....50	3.....50
Number of teeth		20 - 999	20 - 999
Cooling equipment		7 bar , 40 l / min	7 bar , 40 l / min
Grinding wheel drive	kW	4	4
Installed power	kVA	9	11
Weight net / gross	kg	1150 / 1400 (1300 / 1515)	2050 / 2220 (2200 / 2370)

SCHMIDT
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