

# Surface and Profile Grinding



ecoLine

## Experience the ecoLine

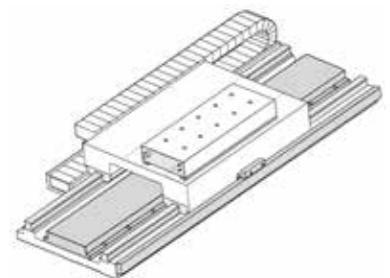
The ecoLine Model surface and profile grinding machines are comprised of a single steel base design. The longitudinal linear motor drive table is its defining characteristic. Hundreds of these travelling table machines have been delivered and are well established in the market.



The compact, steel base designed ecoLine model is equipped with linear guides in all three axes.

The Y- and Z-axes are driven by servo motors and ball screws while the longitudinal X-axis table is powered via direct drive linear motor.

The standard 11kW grinding spindle can be upgraded up to 26kW. The standard partial enclosure allows for easy monitoring of the grinding process. A wide variety of available options provide customization capabilities for specific requirements.



The linear motor – no contact and wear resistant up to 60 m/min table velocity.

## Benefit Overview

- Wear resistant and quiet linear drive
- Table velocity up to 60 m/min
- High acceleration and deceleration of main axis
- Large grinding width
- Large variety of available options



Example Surface Grinding



Example Profile Grinding

Our dressing units for sharpening, undercutting and profiling of the grinding wheel complement our thought-through machine concept.

## Design Characteristics

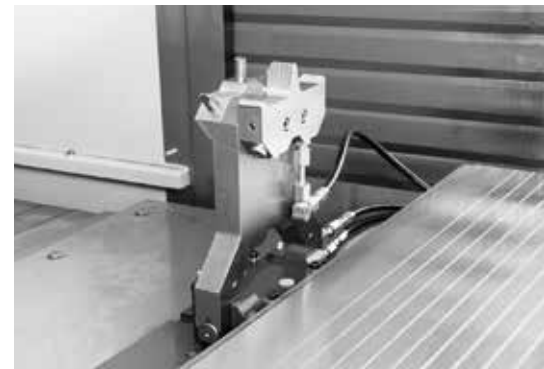
- Tempered steel construction
- Linear guideways in all axes
- Partial enclosure

## Machine Concept

- Z-axis via traveling headstock
- X-axis with linear motor
- Controls option for Surface grinding (xpressCube) or Profile grinding (Sinumerik 840D)



Table dresser for straight dressing of the grinding wheel



Folding dressing unit (pneumatic or hydraulic) for circumference and side of the grinding wheel.



TAW-R – table-mounted rotating dressing unit for side and circumference of grinding wheel.



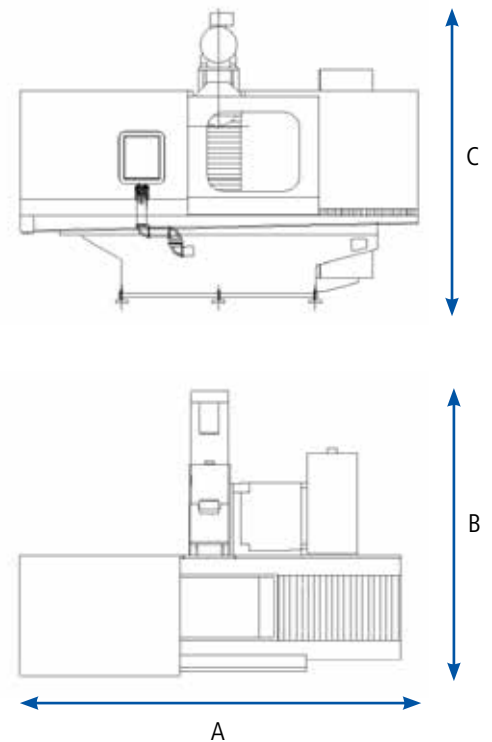
KAG – head-mounted dressing unit for dressing of the wheel circumference.

ecoLine	1.000	1.500	2.000
Grinding Width (mm)	700	700	700
Grinding Length (mm)	1,000	1,500	2,000
Distance Spindle Center to Table (mm)	700	700	700
Spindle Power (kW)	11/26	11/26	11/26
Grinding Wheel (mm)	400 x 60 x127	400 x 60 x127	400 x 60 x127

### Dimensions / Weight

Length A (mm)	3,800	4,800	5,800
Width B (mm)	2,800	2,800	2,800
Height C (mm)	2,800	2,800	2,800
Weight (kg)	6,600	7,800	9,900

All values are approximated and may change depending on selected options.  
All information is subject to change.



### Contact

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**Grinding Applications  
for a Global Market**