

ROLL GRINDING MACHINE (CNC)**technical details:**

manufacturer	HERKULES
type	WS 180 x 1.750
year of construction	1987
construction	table machine
center height	180 mm
distance between centers	1.750 mm
connected load	30 kW
max. grinding- \varnothing with new grinding wheel	325 mm
max. grinding- \varnothing at all	375 mm
max. rotating \varnothing	375 mm
movable distance of grinding support	210 mm
range of back rest	\varnothing 50 – 180 mm
max. usable work piece weight between the *back rest	750 kg
required space (l x w)	5.500 x 4.000 mm
weight	kg

grinding wheel

dimension	450 x 50 x 203 mm
rotation speed	500 – 2.000 Upm.
adjustable by Override-controller	50-140%
speed (adjustable)	9 – 45 m/Sek.
power	15 kW

spindle head (head stock)

rotation speed (adjustable)	16 – 160 Upm.
adjustable by Override-controller	50-120%
power	max. 18 Nm
drive	spec. V-belt
fixture bores for the center punch	morse taper no. 4

tailstock

fixture bores for the center punch	morse taper no. 4
fixture bores for the dressing tool	morse taper no. 1

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grinding slide movements

feeding (adjustable)	50 – 3.000 mm/min.
adjustable by Override-controller	50-150%
no. of strokes (adjustable)	0 – 99
fast movement (by Override adjustable)	0 – 3.000 mm/min.
slow movement (by Override adjustable)	0 – 200 mm/min.

adjustment of grinding support

single adjustment (adjustable)	0-99 mym
complete adjustment (adjustable)	0-2.000 mym
(1 mym = 1 micrometer = 0,001 mm)	
fine adjustment: 1 graduation	0,001 mm
fast movement (by Override adjustable)	0 – 350 mm/min.
slow movement (by Override adjustable)	0 – 200 mm/min.

concav- and convex grinding unit

max. value, in accordance to the diameter	1 mm
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wet grinding device

capacity of water tank	1.400 Liter
max. water level	600 mm
power of cooling water filter	app. 100 l/min.
power of cooling water pump	app. 100 l/min.

accessories:

● electric	mounted in container with air condition
manufacturer SIEMENS	SIMATIC S 5 – PG 675
● 1 x grinding spindle	NEW
● 1 x ball roller spindle (Z-Axis)	used
● spare parts	grinding wheels / ruler / electronic device
● measuring bridge	
● documentation	available
● water tank (filter equipment)	not available
* = back rest	not available