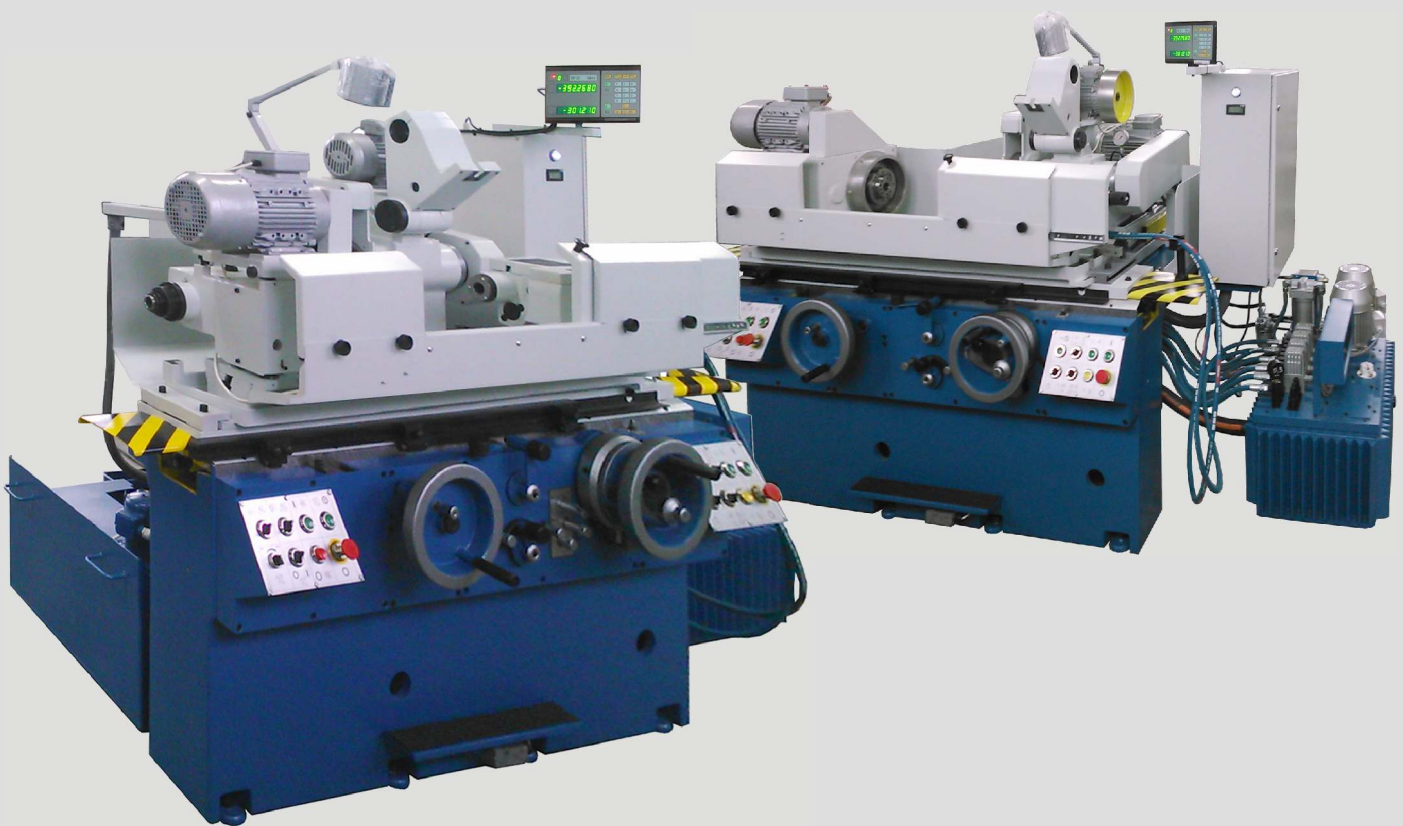


UNIVERSAL GRINDER RUP-280



Universal grinder for rollers RUP-280 is appropriate for grinding internal and external rotary surfaces and also for grinding flat fronts of different workpieces and flanges.

It is characterized by:

- higher speed of grinding up to 45m/s
- high reliability and durability because of hydrostatic spindle bearings and hydrostatic guides

Characteristics of RUP-280 grinding machine in the range of geometrical parameters:

- roughness $Ra \leq 0,16 \mu m$
- rotating 0,0015mm
- rolling 0,005mm / 500mm
- repeatability of diameter grinding $\leq 0,005mm$

TECHNICAL DATA

Max. grinding length	mm	500 or 1000
Max. grinding speed	m/s	45
Max. external grinding diameter	mm	280
Max. workpiece weight in centres	kg	125
Max. workpiece weight in chuck	kg	20

WHEELHEAD

Grinding wheel diameter max./min.	mm	400 / 260
Swivel angle towards tailstock/workhead	degrees	±30°
Total travel with manual drive	mm	160
Additional travel of slide plate	mm	60
Hydraulic rapid travel	mm	50
Approach feed per one handwheel revolution	mm	1
Approach feed per one minimum graduation on the handwheel	mm	0,0025

Automatic approach feed per one graduation on the micro-corrector handwheel

In-feed ranges:	- rough	m/min	0,3 - 6,0
	- finishing	m/min	0,08 - 3,0

Grinding wheel width	mm	50
Grinding wheel bore diameter	mm	127
Automatic approach feed range at the table reversal	mm/stroke	0,0025 - 0,04

WORKHEAD

Swivel angle towards the operator/opposite	degrees	30 / 90
Workpiece spindle taper	Morse	No 4
Workpiece spindle through bore diameter	mm	22
Spindle stepless speed range (option)	rpm	25 ÷ 500

INTERNAL GRINDING (attachment included in special equipment)

Max. ground bore diameter	mm	200	
Max. grinding length	mm	120	
Spindle speed range:	a) SLA 40x250	rpm	10000/15000/30000
	b) SLA 70x250	rpm	5700/8560/17120

TABLE

Swivel angle towards wheelhead/operator for:	L= 500	degrees	7 /5
	L=1000	degrees	4°/3°

Table speed feed range	mm/min	75 - 4000
Min. hydraulic table travel speed	mm	3

TAILSTOCK

Max. spindle projection	mm	25
Tailstock spindle taper: manual/hydraulic	Morse	No 2 / No 4

WEIGHT

Weight	L= 500	kg	2600
	L=1000	kg	2800
Max. power	KW	10,5	
Overall dimension L x W x H for grinding length 500	mm	2290x2000x1800	
Overall dimension L x W x H for grinding length 1000	mm	3620x2000x1800	

STANDARD EQUIPMENT

1. Table type dressing device without diamond
2. Precise table turn sensor device
3. Grinding wheel holder
4. Grinding wheel puller
5. Workhead dead centres Morse taper 4: special with nut: PZKa-4
6. Hydraulic tailstock
7. Set of service spanners
8. Tailstock dead centres Morse taper 4: special: PZKa-4: PZKf-4
9. Backing plate for wheelhead blockade
10. Fastening brackets for table blockade
11. Stand for leveling
12. Internal grinding attachment, spindle
13. Wiring system with engines for 220/380V 50Hz
14. User operation manual

OPTIONAL EQUIPMENT

(available at additional cost)

1. Hard buffer with sensor
2. Base for grinding wheel static balancing
3. Mandrel with nut for static wheel balancing
4. Face plate Ø 200 with T-slots
5. 3-jaw chuck Ø 200
6. 2-point rest
7. 3-point rest
8. Radial dressing attachment
9. Radial and angle dressing attachment
10. Grinding wheel diamond turning device with micrometric travel fitted on tailstock
11. Grinding wheel diamond turning device for internal grinding
12. Grinding wheel diamond turning device with micrometric travel, fitted on table
13. Manually operated tailstock
14. Grinding wheel holder
15. Diamond grinding wheel dresser
16. Grinding wheel 400 x 50 x 127 (99A 60K)
17. Optoelectronic linear scale for X axis, with resolution of 0,001mm and +/-0,002mm tolerance
18. Digital readout with two optoelectronic linear scales (L=500) for X and Z axis.
19. Digital readout with two optoelectronic linear scales (L=1000) for X and Z axis.
20. Internal grinding attachment Ø 40x250 with wheels
21. Internal grinding attachment Ø 70x250 with wheels
22. Stand for parts supporting during removal and reinstallation
23. Device for dynamic balancing of grinding wheel (during operation)
24. Adaptation of the machine for max. grinding outer diameter Ø 320mm.
25. Start-up and training within machine operation at customer site 1 day + traveling costs
26. Machine transportation to the customer (counted both ways)

Attention:

Some components from standard and special equipment are mounted for delivery on the machine.

We reserve all rights to bring changes without notifying.



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