

HÖFLER GEAR GRINDING MACHINES RAPID 2500 – 4000

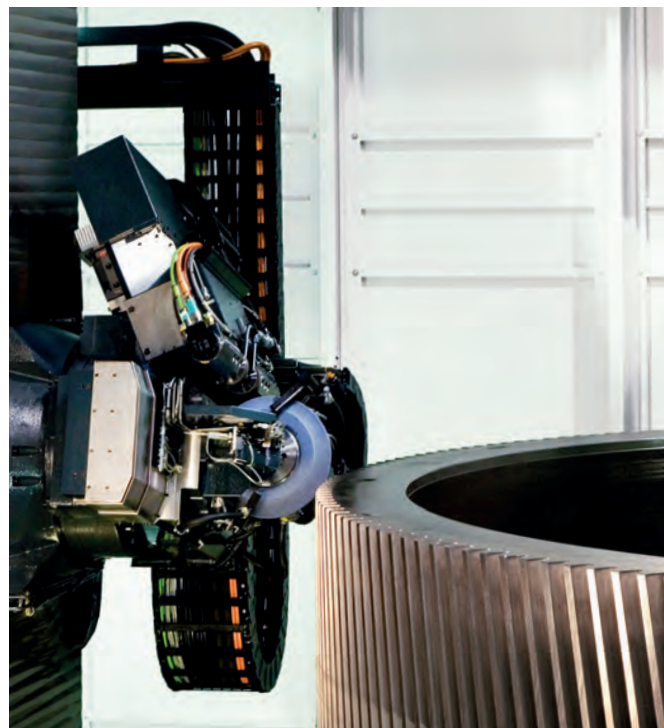
The RAPID 2500 – 4000 machines are specialists in large and heavy workpieces up to 4,000 mm and 40 tons. These giants combine largest dimensions with absolute precision, speed and flexibility. Topologically correct results at reduced grinding times and the optional internal grinding device are the basics for economical and reliable gear production in this size category. In the division cylindrical gear technology and combined with the gear cutting machines the RAPID machines offer combinable solutions for the whole gear manufacturing process.

Moreover, the proprietary software Gear Production guarantees ease-of-use, even for complex applications.



AT A GLANCE

- Highly flexible, direct-driven 5-axis grinding head and swivel angle adjustment during the grinding process
- Stable, damping-optimized double-bed base made of mineral cast
- Precise machine table control via torque motor drive
- Optional internal gear grinding arms
- Controlled grinding result through integrated measurement and automatic corrections during the grinding process itself



RANGE OF APPLICATION	RAPID 2500	RAPID 3000	RAPID 4000
(Cylindrical) gear outer diameter (max.)	Ø 2,600 mm	Ø 3,000 (3,200) mm	Ø 4,000 mm
(Cylindrical) gear root circle diameter (min.)	Ø 0 mm		Ø 580 mm
Axial stroke length	1,500 (2,020)* mm		
Work area over table (min. – max.)	540 – 2,040 (2,560)* mm		
Center distance above table (min. – max.)	1,000-2,300 (2,800)* mm		no center
Profile height (max.)	100 mm		
Module (min. – max.)	1-50***		
Pressure angle	without restriction		
Swivel angle	–45°/+120°		
Grinding wheel diameter (max.)	Ø 450 mm		
Grinding wheel diameter shoulder (min.)	Ø 206 mm		
Grinding wheel width	130 mm		
Grinding spindle drive	24 (37)* kW		
Stroke speed of tool slide (max.)	6 m/min (12 m/min)*		
Table diameter	Ø 1,850 mm		Ø 2,350 mm
Table load (max.)	25,000 kg		40,000 kg
Table bore (diameter x depth)	Ø 750 x 1,300 mm		
Table speed (min. – max.)	0 – 50 rpm		0 – 36 rpm
Dressing roll (diameter x width)	Ø 120 x 26 mm		
Machine dimensions (L x W x H) approx. incl. all additional components	9,900 x 8,400 x 5,200 (5,700)** mm	11,000 x 8,500 x 5,200 (6,000)** mm	10,500 x 9,200 x 5,200 (6,000)** mm
Net weight approx.	65,000 – 67,000 kg**	68,000 – 70,000 kg**	70,000 – 73,000 kg**
Internal grinding*	Various optional internal grinding arms available		

* Available at additional cost

** Depends on machine construction

*** Depends on gear geometry

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