

"KOLOMNA HEAVY-DUTY
MACHINE-TOOL FACTORY"



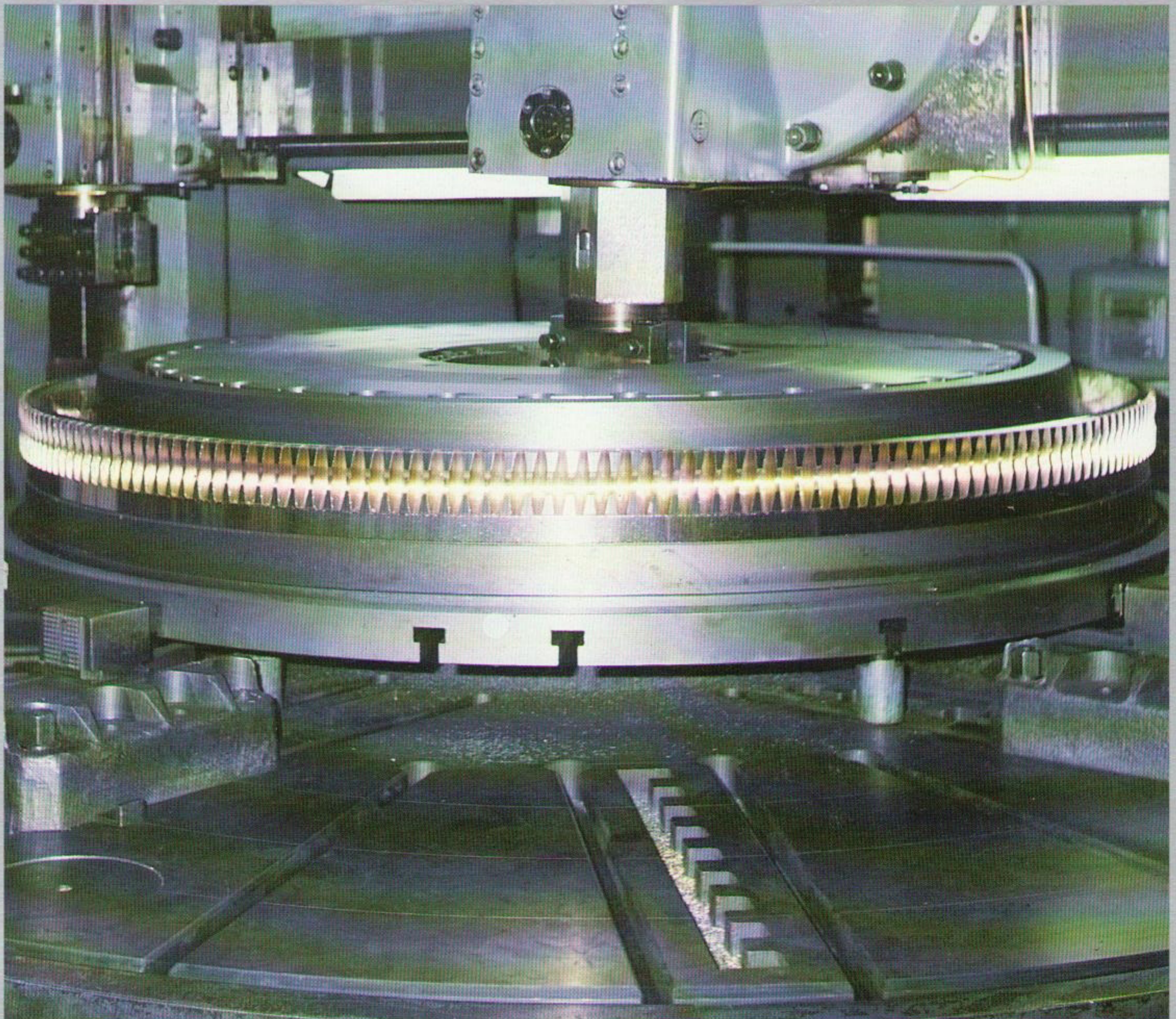
PRODUCTION ASSOCIATION

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GANTRY-TYPE VERTICAL LATHES

∅ 3200 - 8000 mm

1540F1, 1532T, KY518F1, KY487, 1540T, 1550, KY514F1, KY478, 1563,
KY580LF1, KY501F1, KY507F1, KY564F1, KY565F1



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GANTRY-TYPE VERTICAL LATHES \varnothing 3200-8000 mm

Cover: Machining on a gantry-type vertical lathe.

1540F1, 1532T, KY518F1,
KY487, 1540T, 1550, KY514F1,
KY478, 1563, KY580LF1,
KY501F1, KY507F1, KY564F1,
KY565F1

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Specifications

Technical characteristics indicated in this pamphlet may be changed without prior notice.

Parameters	Lathe models					
	1532T KY518F1	1540F1 KY487	1540T KY514F1	1550 KY478	1563 KY507F1 KY564F1	KY580LF1 KY501F1 KY565F1
Face plate diameter, mm	3200	4000	4000	4500	6300	7100
Max. workpiece dimensions, mm						
diameter	3200	4000	4000	5000	6300	8000
height	2000	2000 (2500)	2500	2500	3200 (5000)	3200 (5000)
Max workpiece weight, kg	50000	63000	100000	100000	160000	160000
Max. total cutting force, N	100000	100000	125000	125000	160000	160000
Max. cutting torque on face plate, Nm	125000	160000	250000 (312500)	250000	400000	400000
Max distance of carriage transverse travel, mm	1900	2300	2300	2770	3425	4370
Max. distance of slide vertical travel, mm	1250	1250	1600	1600	2000 (2500)	2000 (2500)
Max. angle of carriage inclination, degrees	- 15 + 40	- 15 + 30 (- 15 + 25)	- 15 + 40 (- 15 + 30)	- 15 + 40	- 15 + 30	- 15 + 30

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Purpose

Gantry-type vertical lathes models 1532T, 1540F1, 1540T, 1550 and 1563 and lathes developed on their basis, i.e. models KY518F1, KY487, KY478, KY415F1, KY507F1, KY564F1, KY580LF1, KY501F1, and KY565F1, are designed for rough and finish machining of steel forgings, steel

and iron castings and weldments, as well as components of non-ferrous metals and alloys. Nonmetallic pieces can also be machined on the lathes.

Operation performed on the lathes include machining of cylindrical, conical, and intricately-shaped (by copy turning) exter-

nal and internal surfaces, facing, cutting off, and turning of face and radial slots. Additional attachments supplied optionally allow the machines to carry out boring, drilling, milling and other operations.

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Parameters	Lathe models					
	$\frac{1532T}{KY518F1}$	$\frac{1540F1}{KY487}$	$\frac{1540T}{KY514F1}$	$\frac{1550}{KY478}$	$\frac{1563}{KY507F1}$ $KY564F1$	$\frac{KY580LF1}{KY501F1}$ $KY565F1$
Face plate speed (stepless control), rpm	0,66 - 62,1	0,52 - 48,7	0,46 - 42,5 (0,37 - 34)	0,34 - 31,2	0,28 - 25,5	0,22 - 20,1
Rates of vertical and horizontal feeds of carriages (stepless control), mm/min	0,059 - 470	0,059 - 470	0,043 - 352	0,043 - 352	0,035 - 285	0,035 - 285
Rate of approach of slides and carriages, mm/min	2715	2715	3125	3125	2500	2500
Crossrail travel speed, mm/min	430	430	240	240	300	300
Output of primary drive electric motor, KW	70	70	125 (180)	125	125	125
Machine-tool overall dimensions, mm						
length	5100	5900	6100	6600	8200	8615
width	9300	10100	10400	11400	14200	17600
height	7200	7700	8400	8400	9800 (12060)	9800 (12060)
Machine-tool weight, kg	90400 (95400)	105000 (107200)	134200 (130000)	140500 (145500)	223000 239000 (242500)	247300 (281000) (269000)
Notes: 1. Lathes indicated in the numerator are base models. 2. Lathes indicated in the denominator are derivatives of the respective base model, and their parameters, when different from those of the base model, are indicated in brackets.						

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