KAAST

F-Grind Advance

2045 | 2550 | 3060 | 4080

Surface Grinding Machine, High Quality NC-Controlled, 8x17'' to 16x32''

STANDARD CONFIGURATION

- NC Control (Y & Z-Axes)
- LCD Touch Screen
- Automatic Down Feed, AD-5
- Auto Crossing Stroke Adjustment
- Criss Cross Grinding Cycle
- Partial Guarding
- Grinding Wheel Flange
- Balancing Stand / Arbor
- Leveling Pads
- Electrical Handwheel (MPG)
- Stepless Adjustable Grinding Spindle Speed
- Tool Kit and Work Light

SURFACE

The precision-ground guideways, coated with TURCITE B, have a low-friction surface. Stick-slip is reduced drastically between the two precision surfaces. Furthermore, the surfaces allow for very quiet motion and are highly resistant against wear.

LUBRICATION

The spindle has special sealed bearings and are lubricated to increase life, and ensure minimal servicing. The guideways are automatically supplied with oil straight after activation of the hydraulic system. Lack of lubrication is not a problem. In addition, an automatic alarm system warns the operator in case of a low oil level.

F-Grind Advance		2045	2550	3060	4080
		8" x 17"	10" x 20"	12" x 24"	16" x 32"
Table Dimensions (W/L)	mm	200x450 (7.8x17")	250x500 (10x20")	300x600 (12x24")	400x800 (16x32")
Distance Spindle Center-Table	mm	500 (20")			
Rapid Traverse	m/min	5–25 (197–984"/min)			
Rapid Z-Axis	mm/min	900 (35"/min)			
Feed	mm/min	450 (17"/min)			
Feed Motor	W	750			
Z-Axis Motor	W	1K			
Vertical Feed: 1 Revolution	mm	(x1) 0.1, (x5) 0.5, (x10) 1			
Vertical Feed: 1 Scale Division	mm	(x1) 0.001, (x5) 0.005, (x10) 0.01			
Grinding Wheel Dimensions	mm	180x13x31.75 (7x0.5x1.25")		355x38x127 (14x1.5x5")	405x50x127 (16x2x5")
Spindle Speed	rpm	2900		1450	
Spindle Motor Power	kW	1.4 (2 Hp)		3.67 (5 Hp)	
Hydraulic Motor Power	kW	0.75 (1 Hp)		1.4 (2 Hp)	
Weight	kg	1950 (4,290 lbs)	2000 (4,400 lbs)	2500 (5,500 lbs)	3700 (8,140 lbs)
Dimension (L/W/H)	mm	2680x2350x 2000 (105x92x78")	3680x3350x2460 (145x132x96")	4000x3500x 2460 (182x144x105")	4600x3650x 2560 (205x145x80")
Item No.		3100080	3100081	3100082	3100083

*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.

KAAST

F-Grind Advance

50100-50200 | 60100-60200 | 70100-70200

Surface Grinding Machine, High Quality NC-Controlled, 20x40'' to 28x80''

OPTIONAL CONFIGURATION

Magnetic Chuck
Automatic Demagnetizing
Coolant System
Complete Enclosure

This grinder has a **rigid gray cast iron frame** optimized by FEA, with **Turcite B-laminated** X and Z-Axes. A **P4-class** precision spindle ensures vibration-free 2 µm accuracy. X-Axis feed is controlled by a **proportional valve**; Y and Z-Axes use **digital AC servos** and **ballscrews**. Features include inverter-controlled **spindle speed**, partial housing, **auto dressing with compensation**, and **built-in grinding cycles**—all operated via an **8" touchscreen**. Accuracy meets DIN 8632 standards.

F-Grind Advance		50100 60100 70100	50150 60150 70150	50200 60200 70200
		20/24/28" x 40"	20/24/28" x 60"	20/24/28" x 80"
Table dimensions (W/L)	mm	500x1000 (20x40") 600x1000 (24x40") 700x1000 (28x40")	500x1500 (20x60") 600x1500 (24x60") 700x1500 (28x60")	500x2000 (20x80") 600x2000 (24x80") 700x2000 (28x80")
Distance Spindle Center-Table	mm	600 (24")		
Rapid Traverse	m/min	5–25 (197–984"/min)		
Rapid Z-Axis	mm/min	900 (35"/min)		
Feed	mm/min	300 (11"/min)		
Feed Motor	W	1.5K (AC Servomotor)		
Z-Axis Motor	W	1K (AC Servomotor)		
Vertical Feed: 1 Revolution	mm	(x1) 0.1, (x5) 0.5, (x10) 1		
Vertical Feed: 1 Scale Division	mm	(x1) 0.001, (x5) 0.005, (x10) 0.01		
Grinding Wheel Dimensions	mm	405x50x127 (16x2x5")		
Spindle Speed	rpm	1450		
Spindle Motor Power	kW	7.35 (10 Hp)		
Hydraulic Motor Power	kW	3.67 (5 Hp)		
Weight	kg	6870 (15,100 lbs) 7170 (15,500 lbs) 7470 (16,400 lbs)	7870 (17,300 lbs) 8170 (17,900 lbs) 8470 (18,600 lbs)	9070 (19,900 lbs) 9370 (20,600 lbs) 9670 (21,200 lbs)
Dimension (L/W/H)	mm	5200x3700x2040 (205x145x80") 5200x3750x2040 (205x148x80") 5200x3850x2040 (205x152x80")	6200x3700x2040 (244x145x80") 6200x3750x2040 (244x148x80") 6200x3800x2040 (244x152x80")	7200x3700x2040 (284x145x80") 7200x3750x2040 (284x148x80") 7200x3850x2040 (284x152x80")
Item No.		3100100 3100101 3100102	3100103 3100104 3100105	3100106 3100107 3100108

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