



fives

## **CRANFIELD PRECISION OGM**

High accuracy freeform  
grinding machine

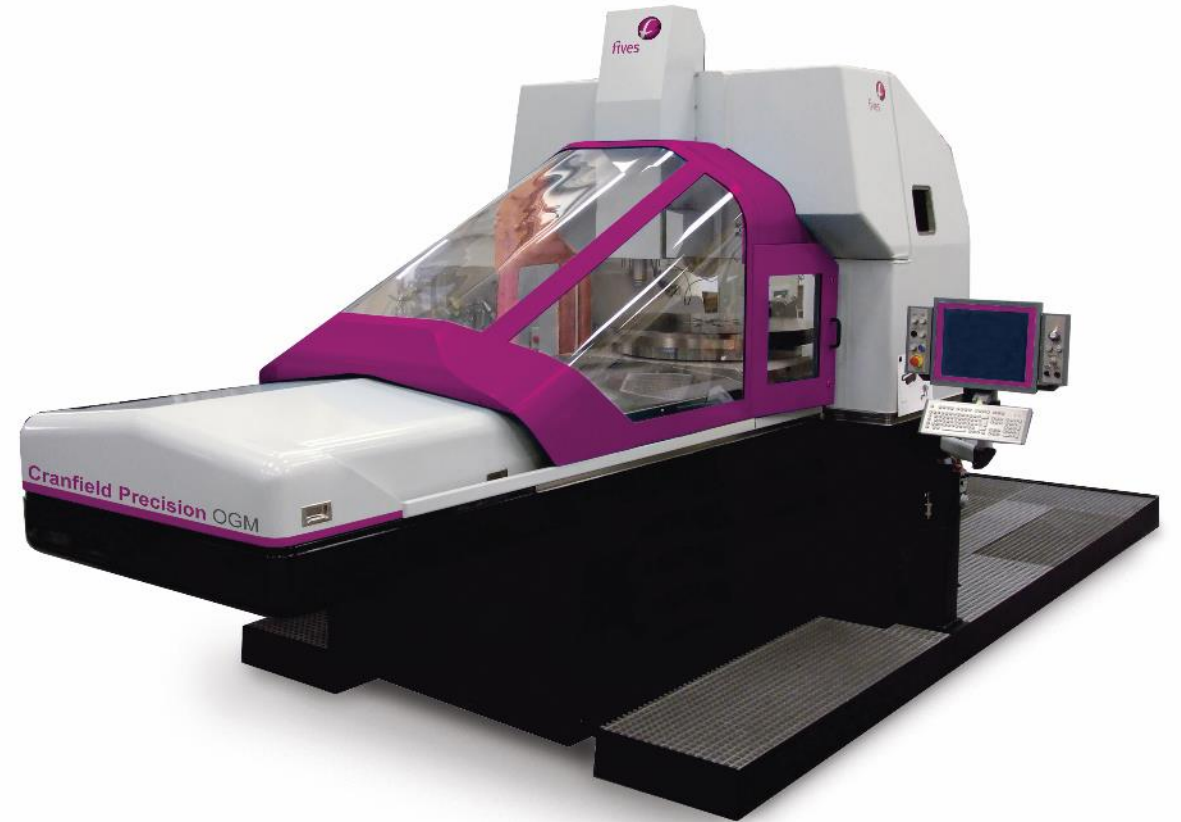
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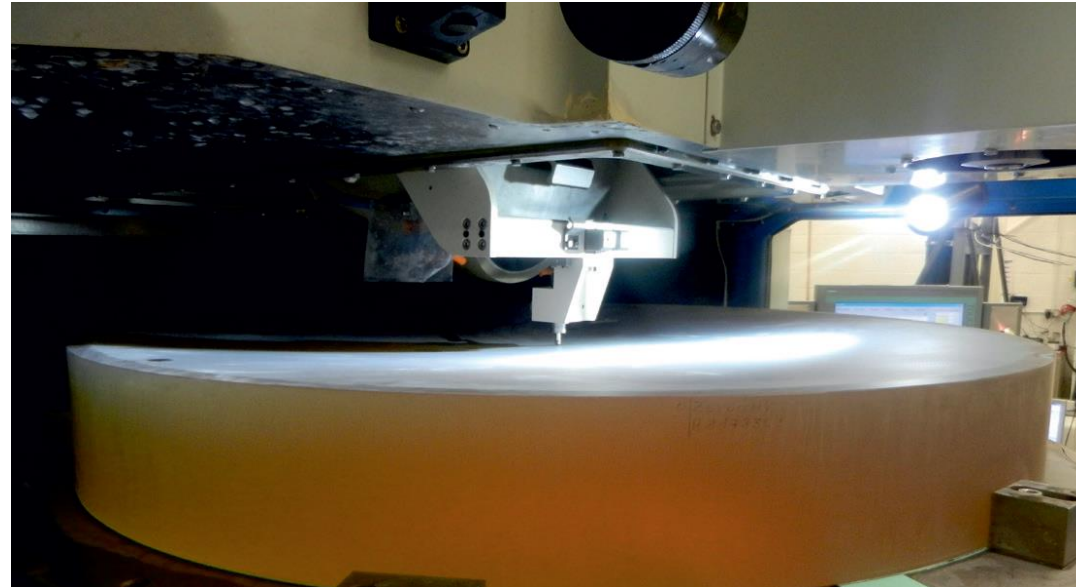
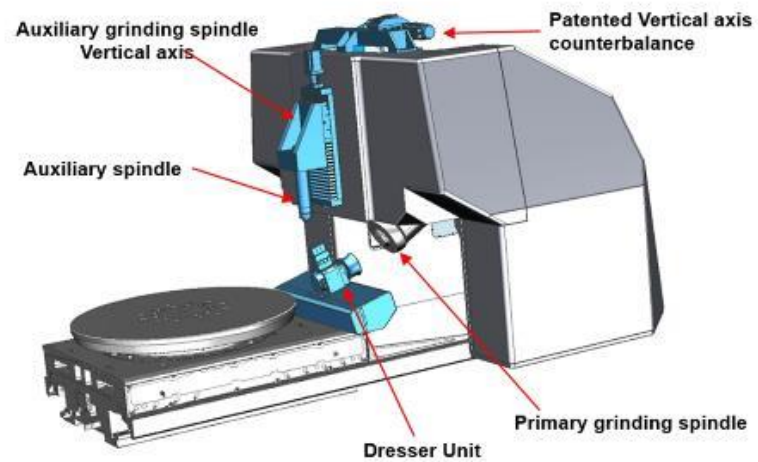


## Freeform grinding machine

- Hydrostatic bearings
- Twin linear motors
- Twin linear encoders
- Patented vertical axis counterbalance
- FEA optimized base and bridge
- 2.500 rev/min work spindle (5,000 RPM optional)
- 60 rev/min 800 Nm rotary table



# CRANFIELD PRECISION OGM



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## Specifications

	Cranfield Precision OGM1200	Cranfield Precision OGM1600	Cranfield Precision OGM2500
<b>Machining capacity</b>			
Max. diameter	1,200 mm (47")	1,600 mm (63")	2,500 mm (98.4")
Max. workpiece height capacity	200 mm (7.9")	600 mm (23.6")	800 mm (31.5")
Max. workpiece mass	1,200 kg (2,645.5 lb)	1,600 kg (3,527.4 lb)	2,000 kg (4,409 lb)
<b>Y axis (horizontal workpiece travel)</b>			
Axis stroke	1,430 mm (56.3")	2,000 mm (78.7")	2,200 mm (86.6")
Min. command resolution	0.05 µm	0.05 µm	0.05 µm
Max. linear motor force (continuous)	1,640 N	1,640 N	1,640 N
Max. working feed rate velocity	3,000 mm/min (118 in/min)	3,000 mm/min (118 in/min)	3,000 mm/min (118 in/min)
<b>Z axis (vertical grinding wheel infeed)</b>			
Axis stroke	275 mm (10.8")	455 mm (18")	655 mm (25.8")
Min. command resolution	0.05 µm	0.05 µm	0.05 µm
Max. working feed rate velocity	3,000 mm/min (118 in/min)	3,000 mm/min (118 in/min)	3,000 mm/min (118 in/min)

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## Specifications

	Cranfield Precision OGM1200	Cranfield Precision OGM1600	Cranfield Precision OGM2500
<b>C Axis (component work table)</b>			
Axis rotation (continuous)	+/- 360°	+/- 360°	+/- 360°
Max. axis velocity	60 rev/min	60 rev/min	60 rev/min
Encoder resolution	0.0001°	0.0001°	0.0001°
<b>S1 grinding spindle</b>			
Spindle speed (standard spindle)	100 - 3,055 rev/min	100 - 3,055 rev/min	100 - 3,055 rev/min
Theoretical stiffness (radius & axial)	950 N/μm	950 N/μm	950 N/μm
Rated spindle power (continuous)	20 kW	20 kW	20 kW
<b>Dimensions</b>			
Dimensions (W x D x H)	2,180 x 6,000 x 3,050 mm (7' x 20' x 10')	2,600 x 7,550 x 3,850 mm (8.5' x 24.8' x 12.6')	3,600 x 8,750 x 4,100 mm (11.8' x 28.7' x 13.5')
Machine weight	30,000 kg (66,138.7 lb)	40,000 kg (88,185 lb)	55,000 kg (121,254 lb)