



metkon[®]
Technology behind Specimen



SAMPLE PREPARATION SPECTRAL 250/350

The SPECTRAL250 and SPECTRAL350 are single/dual disc surface grinders designed for high precision in sample preparation.



SPECTRAL 250

SPECTRAL 250 is a table-top portable surface grinder for the preparation of steel samples for spectroscopy. Its compact design with vibration free operation makes it a practical instrument to work with. Low noise and dust generation levels as well as standard outlet for dust exhauster are additional advantages.

250 mm grinding disc is dynamically balanced for smooth running. Grinding paper is sucked to the grinding disc which does not require any glue. Papers with 40-120 grit can be used to obtain the desired surface quality. The grinding disc is covered halfway by a lid, allowing grinding only in a segment. A safety switch guarantees automatic switch off when the lid is opened.





SPECTRAL

250/350

Sample preparation of metals and materials have become more and more important because of the rapid development and improvement of both software as well as OES and XRF-devices during the past few years that shifts the detection limit for trace analyses. It is crucial to have the sample properly prepared. The sample needs to be both representative, homogeneous and with an even surface in order to eliminate factors that can influence the results.



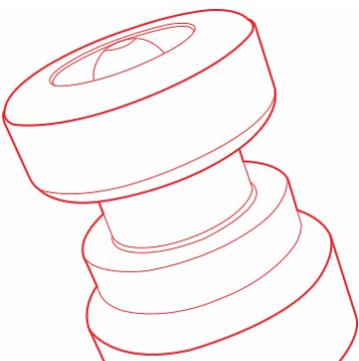
Extra large cutting chamber with easy access and handling.

SPECTRAL 350

SPECTRAL 350 is used to achieve excellent precision flat surfaces of iron and steel samples for spectroscopic analysis. The robust and vibration-free construction has been designed for continuous operation at high sample throughput.

SPECTRAL 350 Series of instruments are available as Dual Disc Units with 350 mm wheel size which is dynamically balanced for smooth running. Due to its special design, grinding paper is sucked to the grinding disc which does not require any glue.

SPECTRAL 350 Series are equipped with a strong aspiration device in addition to its special design, increasing vacuum for suction which retains the abrasive paper on the disc, eliminating the requirement for any adhesives or fixing attachments. Therefore, the abrasive papers can be used on their full widths and are very easy to exchange. The integrated dedusting system with spark trap allows a dust-free operation.





Vacuum Suction of Grinding Paper

The grinding disc is covered halfway by a lid and the sheet metal allows grinding only in a segment for operator comfort and protection.

The machine is fitted with an interlocking safety device. When the lid is opened or the emergency button is depressed, the motors are stopped immediately.

SPECTRAL 350-2S has two grinding discs with dual speed as 1400 and 2800 rpm. It's the most unique grinder, especially for foundries or steel plants having variety of materials.

CLAMPING VICES

The heat generated during grinding operation can create difficulties in handling for the operator. To overcome these difficulties METKON offers a number of special clamping devices for use with SPECTRAL Series.

Magnetic and mechanical specimen holders for samples up to 50 mm. dia. available ensure maximum operator safety.



Magnetic Type Sample Holder, Mechanical Type Sample Holder



SPECIFICATIONS

80 00 - SPECTRAL 250

Table-top Surface Grinder

for spectroscopic sample preparation of steels and irons, vibration-free construction, robust steel housing, strong 1,1 kW motor, working disc of 250 mm dia., with rotation speed of 2800 rpm, a rapid stop of the turning disc, suction created by special design retaining the abrasive paper on the disk (no need to glue or fix), disc covered halfway by lid allowing grinding only on a segment, spark trap, dust box and standard outlet for exhauster, easy to clean and ready for operation.

230 V, 1-phase, 50 Hz.

1487-AX-R - SPECTRAL 350-2S

Dual Disc Surface Grinder

for spectroscopic sample preparation of steels and irons, course and fine grinding possible on two separate independent discs of 350 mm dia. which are dynamically balanced, two individual driving motors (2.2 kW each) with two speeds 1400/2800 rpm, suction created by special design retaining the abrasive paper on the disk (no need to glue or fix), discs covered halfway by lids allowing grinding only on a segment, dedusting system with spark trap and easily replaceable filters, with interlocking safety switch not allowing the top cover being opened before the motors are stopped, ergonomically designed and ready for operation. (wooden packing included)

400V, 3-phase, 50 Hz.

Sample Holders for Spectral 250/350

GR 1804 - Sample Holder for round specimens, Magnetic type.

GR 1805 - Sample Holder for round specimens, Mechanical type.

Spare Part Kit for Spectral 350

GR 1850 - Recommended Set of Spare Parts, SPC 350

- BUSHING DISC PACKAGING SUB, SPECTRAL 350, 1 pc.
- BOLT DISC PACKAGING, SPECTRAL 350, 1 pc.
- GAS SPRING WITH PROTECTION PIPE, 200 N, 10x19, 2 pcs.
- BAG FILTER, 4 pcs.
- SIDE LOCK, METAL, 1 pc.
- SIGNAL LAMP, 24V AC, Ø10, YELLOW, 1 pc.

* Other voltages and frequencies available upon request. Please state when ordering. All specifications are subject to change without notice.

ORDER NO	80 06	80 02-2S
MODEL NO	SPECTRAL 250	SPECTRAL 250-2S
Number of Stations	1	2
Wheel Diameter	250	350
Wheel Speed, rpm	2800	1400/2800
Motor Power	1,1	2 x 2,2
Dust exauster	Yes	Yes
Paper Adjustment	Vacuum	Vacuum
Dimensions, WxDxH, cm	35 x 45 x 33	110 x 60 x 95
Weight	40	205



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