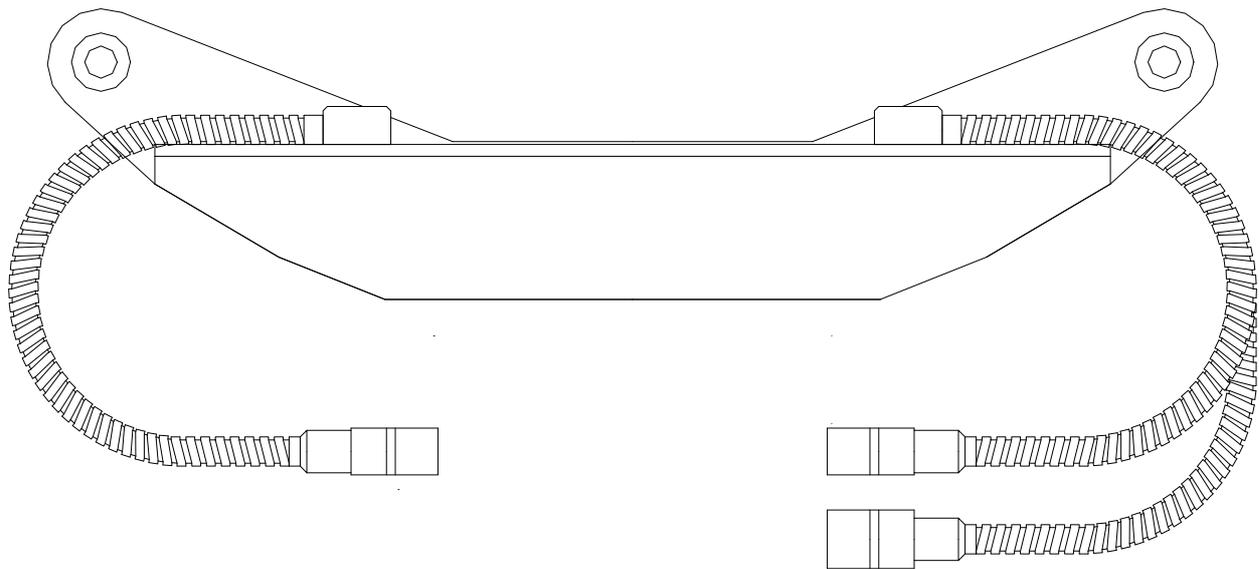




RMS-DDR1

VAL0123045 / SKC9315703

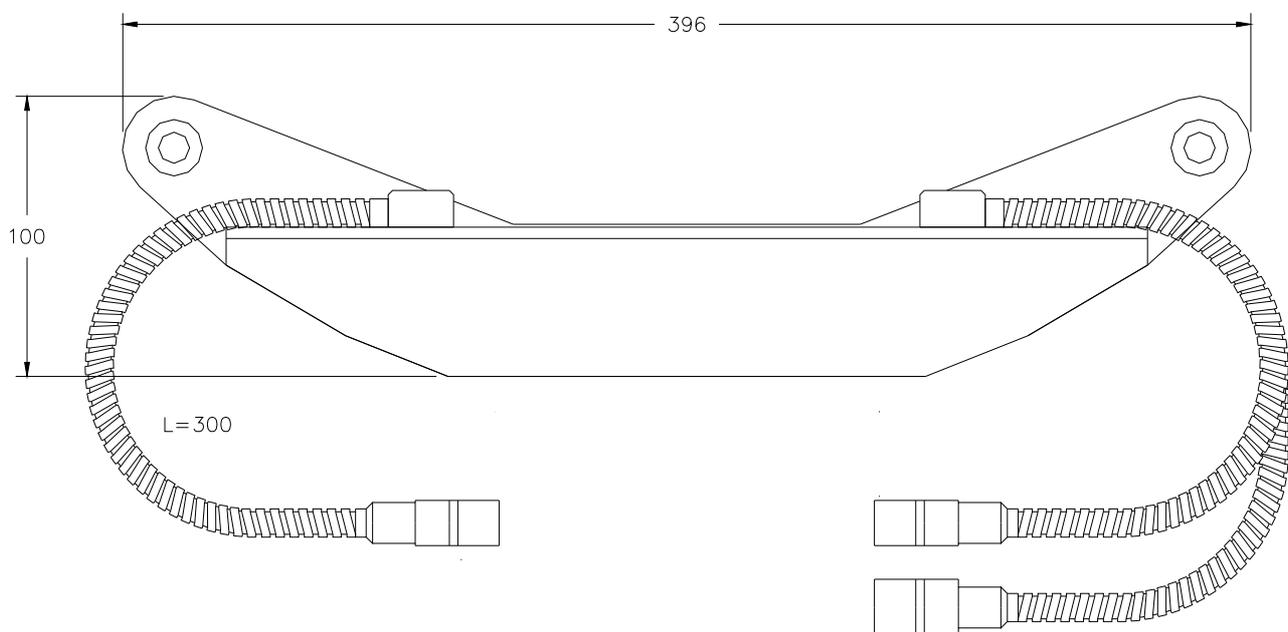


ROTATING UNIT
FOR THE RMS-DD SYSTEM
USERS MANUAL



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1. OUTLINE DRAWING

2. DESCRIPTION OF OPERATION

The unit generates and measures the current signals to the TDC-sensor (TDC=True Disc Clearance). The unit receives the power from the rotating transformer (TR-RA70), and uses DC/DC converters to generate stabilized voltages. The unit is a mix of both analogue and digital circuitry, and also includes microprocessors. The output data also includes the sensor temperature, the touch point vibration, and several other internal values for easier error checking. The touch point vibration amplitude is measured through the TVD-sensor (TVD-TA1), which is mounted on the end of the rotor shaft.

The output signal is in the form of a digital data stream, and is connected to the signal winding of the rotating transformer.

3. TECHNICAL SPECIFICATION

Article no:	RMS-DDR1 / VAL0123045 / SKC9315703
Connectors:	6-pole with female bayonet, for the K-DDRS1 cable 6-pole with male bayonet, for the TR-RA70 unit 4-pole with female bayonet, for the TVD-TA1 unit
Outline dimension:	Length=312 mm, Height = 99.5mm, Thickness =106 mm
Weight:	3.4 kg
Housing:	Aluminum, anodized and painted.

4. SETTINGS

The settings should only be changed by qualified personal only. The unit must be opened and the straps must be soldered.

SW1/	1-2=off	normal response time	
	1-2=on	slow response time	
	3-4=off	normal mode	
	3-4=on	test mode	
SW2/	1-2=off	3-4=off	-2.5% measuring time
	1-2=on	3-4=off	nominal measuring time
	1-2=off	3-4=on	+2.5% measuring time
	1-2=on	3-4=on	+5% measuring time

5. MOUNTING

The unit is mounted on the rotating transformer at the end of the refiner shaft. The cables from the K-DDRS1 cable, the TVD-TA1 transducer and the TR-RA70 transformer are connected to the three cables from the unit. Different connectors and number of poles will assure that the cables are connected the right way. The connections are then placed in a metal guide to prevent them from being thrown out during rotation.