

# PCS

Part Number	Description
<b>PCS HFRR</b>	
HFRR	HFRR System Complete (mechanical unit, control unit)
HFRSSP	Standard specimen pack (100 upper and 100 lower specimens)
	<b>Additions</b>
HFRHCAB	Humidity controlled cabinet for HFRR (incs humidity probe)
HFRMIC	Metallurgical microscope for HFRR system with calibrated micrometers
HFRPRIN	Optional PC printer for HFRR
HFRMP	Optional mini-printer for HFRR
HFRWS	Wear scar measuring package (incs. video camera, software)
	<b>Upgrades/Additions</b>
HFRPC	Optional PC inc. data logging software and connection cable
HFRSOFT	HFRR PC software + connecting cable (user to supply own PC)
AUTOHFR	AUTOHFR (software only) upgrade for HFR-PC
HFRHTO	High Temperature Option Hardware Only
HFRHTOB	High Temperature Option Bundle (hardware and AUTOHFR software)
HFRGKIT	Gasoline conversion kit
HFRGULS	Upper and lower gasoline specimen holder inc. seals
HFRHLRF	High lubricity reference fluid, CEC-DF-90-A-92 (half litre)
HFRLLRF	Low lubricity reference fluid, CEC-DF-70-00 SF 006 (half litre)
HFRFA	Reference fluid A (D6079) (1.8 litre 0.5 US gallon)
HFRFB	Reference fluid B (D6079) (1.8 litre 0.5 US gallon)
	<b>Spares</b>
HFRMRTD	Main RTD temperature probe
HFRMRTDC	Calibrated Main RTD temperature probe
HFRARTD	Alarm RTD temperature probe
HFRHEAT15	Heaters (pair) 15W c/w crimps and tool
HFRTOOL	Tool set (tweezers, allen keys etc)
HFRTWEE	Pair of tweezers
HFRTSW	Tools, screws and weight hanger cord set
HFRSS	Screw set
HFRWHC	Weight hanger cord
HFRBATH	Ultrasonic Bath
HFRWT	HFR2 weight set
HFRHYG	Humidity probe, cable and bracket
HFRHUM	Spare ambient relative humidity probe
HFRHB	HFRR heater block
HFRPIP	Variable pipette
HFRULS	Upper and lower specimen holder
HFRLSH	Lower specimen holder
HFRLSP	Lower specimen pack (100 lower specimens)
HFRUSH	Upper specimen holder
HFRUSP	Upper specimen pack (100 upper specimens)
HFRMICLAMP	Microscope lamp for HFR2 microscope
HFRPRI	HFRR pushrod insert
HFRPCB3	Replacement HFRR PCB Issue 3
HFRSERIAL	Replacement HFRR PC serial cable
HFRMWC	Multi way cable ECU-MTU
HFRRTDC	RTD connecting cable
HFRGUSH	Upper gasoline specimen holder

HFRGRAT	Graticule only
HFRPOWA	HFR Power Amp Assembly
HFRCAL	Force calibration kit
HFRSLG	Replacement stroke length guage
HFRFRQ	HFR Frequency counter (UKAS calibrated) incs.cables
HFRCAL2	Temperature calibrator plugs (0°C and 62°C)
HFRMRDTC	Re-calibration of Main RTD temperature probe
HFRRECAL2C	Re-calibration of HFR 0°C and 62°C temperature plugs
HFRCAL	Recalibration of HFR2 force calibration device
HUMCAL	Re-calibration of humidity probe
HFRMICSTAGE	Microscope stage and calibrated micrometer
HFRMIC	Calibrated micrometer stage for HFR2 microscope
HFRGRATR	Recalibration of Graticule
	<b>2010 Upgrade Prices</b>
HFRUP1	Option One: new control unit
HFRUP2	Option Two: new control unit + software + cable for own PC
HFRUP3	Option Three: new control unit + software + PC
HFRCON	Upgrade of MU from MT to RTD
	<b>Wear Scar camera upgrade packages - price only available with HFRWS</b>
HFRWSMEIJI	WS camera complete upgrade package for Meiji microscope includes HFRWS + stage (no HFRPC software or micrometer)
HFRWSPRIOR	WS camera complete upgrade package for Prior microscope includes HFRWS + stage + objective (no HFRPC software or micrometer)
HFRPCUPS	Special price upgrade stand-alone system to PC with software
HFRSOFTUPS	Special price upgrade stand-alone system software only (supply of
HFRWAR	Extend the warranty from 12 months to 2 years
HFRELECU	Replacement Electronics unit for an HFRR
HFRMECHU	Replacement Mechanical unit for an HFRR
HFRMICUPPR	Upgraded microscope stage and objective for a Prior m/scope (no
HFRMICUPME	Upgraded microscope stage for a Meiji m/scope (no micrometer)
HFRMICUPPRM	Upgraded microscope stage, obj and micrometer for a Prior m/sco
HFRMICUPMEM	Upgraded microscope stage and micrometer for a Meiji m/scope
HFRMICROM	Micrometer and Mating Stage
HFRMICROO	HFRR calibrated micrometer without upper stage holder
HFRHEAT15	Heaters (pair) 15W c/w crimps and tool
	<b><i>PCS BOCLE</i></b>
ABS	Automated BOCLE system for ASTM D5001
ABSPC	PC based data logging system
ABSSW	Data logging software only
ABSSLUP	SLBOCLE upgrade
ABSRING	Pack of 10 ABS test rings for ASTM D5001
ABSBALL	Pack of 100 test balls
ABSWS	Wear Scar Camera for the ABS (including software, calib)
	<b>Standard ABS-SL</b>
ABSSL	Automated ABS-SL system for ASTM D6078
ABSSLRING	Pack of 10 ABS-SL test rings for D6078
ABSBALL	Pack of 100 test balls
ABS-SLW	Full SL-BOCLE weight set
	<b>Additions</b>
ABSMIC	Microscope for ABS wear scar measurement + cal cert
HFRMICLAMP	Microscope lamp (HFRMICLAMP)

ABSRFA	Reference fluid A (D5001) 1 litre
ABSRFB	Reference fluid B (D5001) 1 litre
ABSSLRFA	Reference fluid A (D6078) 1.8 litre
ABSSLRFB	Reference fluid B (D6078) 1.8 litre
ABSMTPT	Temperature probe
ABSRHCAL	Relative humidity probe calibration kit
	<b>Spares</b>
ABSBATH	Ultrasonic Bath
ABSSPACER	Spacers (set of 10)
ABSWEIGHT	ABS 500g load weight
ABSTD	Torque Driver + adaptor
ABSCSREW	Test ring retaining screw
ABSCW	Test ring clamp washer
ABSTRA	Test ring adaptor
ABSBH	Ball holder assembly (incs. Collar, screw, washer)
ABSFBC	Fuel bath cover
ABSFB	Fuel bath
ABSTCAL0	Temperature calibrator plug 0°C
ABSTCAL25	Temperature calibrator plug 25°C
ABSFILL	Water fill pipe + funnel
ABSAPL	Large air pipe + fittings (check which type)
ABSAPS	Small air pipe + fittings (check which type)
ABSACD	Zero Air Supply (inc.compressor + dryer)
ABSFCAL	Air flow test kit
ABSPEG	Peg spanner (tightening tool)