Spare Parts Sensor System X; Sensor System X Rev. A; Sensor System XII; Sensor System XIV

Product Code	Spare Part Packages	Qty.
1-7001	**Spare Parts Package espresso SMASH** Set of spare parts for espresso SMASH SurfaceSensors with line scan cameras containing the following components: 1 Camera Module eSMASH, 1 LED Module eSMASH, 1 embedded-PC eSMASH, 1 Image Processing Module SWP 1 Set of Components Junction Box (one of each electrical component inside the cabinet like fuses, relay, opto coupler, etc.)	1
1-1045	**Spare Parts Package SurfaceSensor Matrix, Base** Basic set of spare parts for cold mill SurfaceSensors with matrix cameras containing the following components, which are only available at ISRA Parsytec: 1 Camera Module Cold Mill (S10-9015-CM) 1 Set of Components Cold Mill Sensor (S10-9061-CM) 1 Set of Power Supplies Cold Mill (S10-9002-CM) 1 LED IR Module (S10-9017-IR) 1 SyncBox (S10-9012) and 1 Cover Glass Frame Sensor BF Cold Mill (S10-9022-04) respectively 1 Cover Glass Frame Camera Beam DF or bDF Cold Mill (S10-9022-03) and 1 Cover Glass Frame Illumination Beam DF or bDF Cold Mill (S10-9022-05)	1
1-1046	**Spare Parts Package SurfaceSensor Matrix, Complete w/o Server** Complete set of spare parts (all electronic components and glasses except IT-components) for cold mill SurfaceSensors with matrix cameras containing the following components: 1 Gigabit ETN Switch, Sensor (S10-9070-03) 1 Set of Components Cold Mill Sensor (S10-9061-CM) 1 Set of Power Supplies Cold Mill (S10-9002-CM) 1 Camera Module Cold Mill (S10-9015-CM) 1 LED IR Module (S10-9017-IR) 1 SyncBox (S10-9012) 1 Fan for 19" Rack Mount Fan Unit, Junction Box (S10-9072-01) 1 Gigabit ETN Switch, Junction Box (S10-9070-02) 1 Power Supply for Compact PCI crate (S10-9073-04) resp. 1 Compact PCI image processing module DC (S10-9074-2) 1 Set of Components Junction Box Cold Mill (S10-9003-CM) and 1 Cover Glass Frame Sensor BF Cold Mill (S10-9022-04) respectively 1 Cover Glass Frame Camera Beam DF or bDF Cold Mill (S10-9022-03) and 1 Cover Glass Frame Illumination Beam DF or bDF Cold Mill (S10-9022-05)	1

| 1-1047-3 | Spare Parts Package SurfaceSensor Line Scan, Base | 1 |

Basic set of spare parts for cold mill SurfaceSensors with line scan cameras containing the following components which are only available at ISRA Parsytec:
1 Camera Module Line Scan (S10-9015-LS)
1 Set of Components Line Scan Sensor (S10-9061-LS)
1 LED WI Module, Line Scan (S10-9017-WI)
1 LED Interface Module Line Scan (S10-9091)
1 Cover Glass Frame Camera Beam Line Scan (S10-9022-08)
1 SyncBox (S10-9012)

| 1-1048 | Spare Parts Package SurfaceSensor Line Scan, Complete w/o Server | 1 |

Complete set of spare parts (all electronic components and glasses except IT-components) for cold mill
SurfaceSensors with line scan cameras containing the following components:
1 Gigabit ETN Switch, Sensor (S10-9070-03)
1 Set of Components Line Scan Sensor (S10-9061-LS)
1 Set of Power Supplies Line Scan (S10-9002-LS)
1 Camera Module Line Scan (S10-9015-LS)
1 Signal Converter Line Scan (S10-9090)
1 LED WI Module, Line Scan (S10-9017-WI)
1 LED Interface Module Line Scan (S10-9091)
1 Cover Glass Frame Camera Beam Line Scan (S10-9022-08)
1 SyncBox (S10-9012)
1 Fan for 19" Rack Mount Fan Unit, Junction Box (S10-9072-01)
1 Gigabit ETN Switch, Junction Box (S10-9070-02)
1 Power Supply for Compact PCI crate (S10-9073-04)
 resp. 1 Compact PCI image processing module DC (S10-9074-2)
1 Set of Components Junction Box Cold Mill (S10-9003-CM)
1 Incremental encoder with wheel for clean environment (S10-9082-01)

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1-1049	Spare Parts Package Dual Sensor, Complete w/o Server	1

Complete set of spare parts (all electronic components and glasses except IT-components) for Dual Sensors (combining SurfaceSensors with line scan and matrix cameras) containing the following components:
1 Gigabit ETN Switch, Sensor (S10-9070-03)
1 Set of Components Line Scan Sensor (S10-9061-LS)
1 Set of Power Supplies Line Scan (S10-9002-LS)
1 Camera Module Line Scan (S10-9015-LS)
1 Signal Converter Line Scan (S10-9090)
1 LED WI Module, Line Scan (S10-9017-WI)
1 LED Interface Module Line Scan (S10-9091)
1 Cover Glass Frame Camera Beam Line Scan (S10-9022-08)
1 SyncBox (S10-9012)
1 Fan for 19" Rack Mount Fan Unit, Junction Box (S10-9072-01)
1 Gigabit ETN Switch, Junction Box (S10-9070-02)
1 Power Supply for Compact PCI crate (S10-9073-04)
 resp. 1 Compact PCI image processing module DC (S10-9074-2)
1 Set of Components Junction Box Cold Mill (S10-9003-CM)
1 Incremental encoder with wheel for clean environment (S10-9082-01)
1 Set of Components Cold Mill Sensor (S10-9061-CM)
1 Set of Power Supplies Cold Mill (S10-9002-CM)
1 Camera Module Cold Mill (S10-9015-CM)
1 LED IR Module (S10-9017-IR)
and
1 Cover Glass Frame Sensor BF Cold Mill (S10-9022-04) respectively
1 Cover Glass Frame Camera Beam DF or bDF Cold Mill (S10-9022-03) and 1 Cover Glass Frame Illumination Beam DF or bDF Cold Mill (S10-9022-05)

1-1050	Spare Parts Package SurfaceSensor Matrix Revamp, Base	1

Basic set of spare parts for cold mill SurfaceSensor revamps with matrix cameras containing the following components, which are only available at ISRA Parsytec:
1 Camera Matrix Revamp (S10-9015-RV)
1 Set of Components Cold Mill Sensor Revamp (S10-9061-CM-RV)
1 Set of Power Supplies Cold Mill (S10-9002-CM)
1 SyncBox (S10-9012)

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1-1051   Spare Parts Package SurfaceSensor Matrix Revamp,   1
Complete w/o Server
Complete set of spare parts (all electronic components and
glasses except IT-components) for cold mill SurfaceSensor
revamps with matrix cameras containing the following
components:
1 Gigabit ETN Switch, Sensor (S10-9070-03)
1 Set of Components Cold Mill Sensor Revamp (S10-9061-
CM-RV)
1 Set of Power Supplies Cold Mill (S10-9002-CM)
1 Camera Matrix Revamp (S10-9015-RV)
1 SyncBox (S10-9012)
1 Fan for 19" Rack Mount Fan Unit, Junction Box (S10-
9072-01)
1 Gigabit ETN Switch, Junction Box (S10-9070-02)
1 Power Supply for Compact PCI crate (S10-9073-04)
 resp. 1 Compact PCI image processing module DC (S10-
9074-2)
1 Set of Components Junction Box Cold Mill (S10-9003-
CM)

1-1052   Spare Parts Package SurfaceSensor Hot Mill, Base   1
Basic set of spare parts for hot mill SurfaceSensors
containing the following components which are only
available at ISRA Parsytec:
1 Camera Hot Mill (S10-9015-HM)
1 Set of Components Hot Mill Sensor (S10-9061-HM)
1 Hot Mill LED Lamp (S11-9024)
1 SyncBox (S10-9012)
and
1 Set of Cover Glass Tubus Top Side (S10-9037-TS) and/or
1 Set of Cover Glass Tubus Bottom Side (S10-9037-BS)
respectively
1 Set of Cover Glass Compact Sensor Top Side (S10-9037-
SA-TS) and/or 1 Set of Cover Glass Compact Sensor
Bottom Side (S10-9037-SA-BS)

1-1053	Spare Parts Package SurfaceSensor Hot Mill, Complete w/o Server	1
	Complete set of spare parts (all electronic components and glasses except IT-components) for hot mill SurfaceSensors containing the following components:	
	1 Gigabit ETN Switch, Sensor (S10-9070-03)	
	1 Set of Components Hot Mill Sensor (S10-9061-HM)	
	1 Set of Power Supplies Hot Mill (S10-9002-HM)	
	1 Camera Hot Mill (S10-9015-HM)	
	1 Hot Mill LED Lamp (S11-9024)	
	1 SyncBox (S10-9012)	
	1 Fan for 19" Rack Mount Fan Unit, Junction Box (S10-9072-01)	
	1 Gigabit ETN Switch, Junction Box (S10-9070-02)	
	1 Power Supply for Compact PCI crate (S10-9073-04) resp. 1 Compact PCI image processing module DC (S10-9074-2)	
	1 Set of Components Junction Box Hot Mill (S10-9003-HM) and	
	1 Set of Cover Glass Tubus Top Side (S10-9037-TS) and/or	
	1 Set of Cover Glass Tubus Bottom Side (S10-9037-BS) respectively	
	1 Set of Cover Glass Compact Sensor Top Side (S10-9037-SA-TS) and/or 1 Set of Cover Glass Compact Sensor Bottom Side (S10-9037-SA-BS)	
1-1054	Spare Parts Package SurfaceSensor Hot Mill Revamp, Base	1
	Basic set of spare parts for hot mill SurfaceSensor revamps containing the following components which are only available at ISRA Parsytec:	
	1 Camera Matrix Revamp (S10-9015-RV)	
	1 Set of Components Hot Mill Sensor (S10-9061-HM)	
	1 SyncBox (S10-9012)	
1-1055	Spare Parts Package SurfaceSensor Hot Mill Revamp, Complete w/o Server	1
	Complete set of spare parts (all electronic components and glasses except IT-components) for hot mill SurfaceSensor revamps containing the following components:	
	1 Gigabit ETN Switch, Sensor (S10-9070-03)	
	1 Set of Components Hot Mill Sensor (S10-9061-HM)	
	1 Set of Power Supplies Hot Mill (S10-9002-HM)	
	1 Camera Matrix Revamp (S10-9015-RV)	
	1 SyncBox (S10-9012)	
	1 Fan for 19" Rack Mount Fan Unit, Junction Box (S10-9072-01)	
	1 Gigabit ETN Switch, Junction Box (S10-9070-02)	
	1 Power Supply for Compact PCI crate (S10-9073-04) resp. 1 Compact PCI image processing module DC (S10-9074-2)	
	1 Set of Components Junction Box Hot Mill (S10-9003-HM)	

Product Code	Sensor	Qty.
S10-9070-03	Gigabit ETN Switch, Sensor	1

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S10-9061-LS	Set of Components Line Scan Sensor 1 Camera Bus Module 1 Adapter Camera-Bus 1 Terminator Camera-Bus 1 Fan Illumination Beam	1
S10-9061-CM	Set of Components Cold Mill Sensor 1 Camera Bus Converter Module 1 Adapter Camera-Bus 1 Terminator Camera-Bus 1 Bimetal Temperature Switch NC 1 Fan 1 Adapter LED-Bus 1 Terminator LED-Bus	1
S10-9061-CM-RV	Set of Components Cold Mill Sensor Revamp 1 Camera Bus Converter Module 1 Adapter Camera-Bus 1 Terminator Camera-Bus 1 Bimetal Temperature Switch NC 1 Fan	1
S10-9061-HM	Set of Components Hot Mill Sensor 1 Camera Bus Converter Module 1 Adapter Camera-Bus 1 Terminator Camera-Bus 1 Fan	1
S10-9002-CM	Set of Power Supplies Cold Mill 1 Power Supply 12V (Junction Box, Sensor) 1 Power Supply 24V (Junction Box) 1 Power Supply 170V (Sensor)	1
S10-9002-HM	Set of Power Supplies Hot Mill 1 Power Supply 5V 1 Power Supply 12V 1 Power Supply 24V (Junction Box)	1
S10-9002-LS	Set of Power Supplies Line Scan 1 Power Supply 12V 1 Power Supply 24V (Sensor) 1 Power Supply 24V (Junction Box) 1 Automatic cut-out, D4A 1 Automatic cut-out, C40A	1
S10-9015-CM	Camera Module Cold Mill incl. camera, lens, filter, holder; pre-calibrated & ready to use	1
S10-9015-LS	Camera Module Line Scan balanced	1
S10-9015-HM	Camera Hot Mill	1
S10-9015-RV	Camera Matrix Revamp Camera w/o filters w/o holder	1
S10-9015-HM-35	Lens Module 35mm for Hot Mill incl. Filters	1
S10-9015-HM-50	Lens Module 50mm for Hot Mill incl. Filters	1
S10-9090	Signal Converter Line Scan	1
S10-9017-WI	LED WI Module, Line Scan	1
S10-9091	LED Interface Module Line Scan	1
S11-9024	Hot Mill LED Lamp	1
S10-9024-02	Power Module for Illumination Unilux	1
S10-9032-CM	Cooling Device for Cold Mill Sensors	1
S10-9022-03	Cover Glass Frame Camera Beam DF or bDF Cold Mill	1
S10-9022-04	Cover Glass Frame Sensor BF Cold Mill	1
S10-9022-05	Cover Glass Frame Illumination Beam DF or bDF Cold Mill	1
S10-9022-06	Cover Glass Frame Camera Beam Hot Mill	1

S10-9022-07	Cover Glass Frame Illumination Beam Cold Mill 2nd Frame for shiny Material	1
S10-9022-08	Cover Glass Frame Camera Beam Line Scan	1
S10-9024-05	Glass Pane for Illumination Unilux	1
S10-9037-SA-TS	Set of Cover Glass Compact Sensor Top Side incl. all glass plates except internal glass plates.	1
S10-9037-SA-BS	Set of Cover Glass Compact Sensor Bottom Side incl. all glass plates except internal glass plates.	1
S10-9037-TS	Set of Cover Glass Tubus Top Side incl. all glass plates.	1
S10-9037-BS	Set of Cover Glass Tubus Bottom Side incl. all glass plates.	1
S10-9071-01	Calibration Plate Cold Mill	1
S10-9071-02	Calibration Plate Hot Mill	1
S10-9089	Proximity switch for Moveable Sensor Option	1

Product Code	Junction Box	Qty.
S10-9012	SyncBox	1
S10-9072-01	Fan for 19" Rack Mount Fan Unit, Junction Box	1
S10-9072-02	Fan at Door, Junction Box (standard, alternatively to S10-9072-03)	1
S10-9072-03	Cooling Device Junction Box incl. Door Switch (optional, alternatively to S10-9072-02)	1
S10-9070-02	Gigabit ETN Switch, Junction Box	1
S10-9073-01	Compact PCI crate, 5 slots	1
S10-9073-02	Compact PCI crate, 10 slots	1
S10-9073-03	Compact PCI crate, 15 slots	1
S10-9073-04	Power Supply for Compact PCI crate	1
S10-9074-2	Compact PCI image processing module DC with Dual Core processor.	1
S10-9003-CM	Set of Components Junction Box Cold Mill 1 Automatic cut-out, 2A 1 Automatic cut-out, 16A 1 Equipment protection 1 Line filter 1 Interface module 1 Power module 1 Terminal module E15 1 Terminal module P 1 Digital input module 4DI 1 Digital output module 4DO 1 Micro Memory Card 1 Counter module 1 Relay PLC-RSC-24DC/1IC/ACT 1 Motor protection circuit breaker 11-16A or 20-25A 1 Bimetal temperature switch NC 50°C	1

S10-9003-HM	Set of Components Junction Box Hot Mill	1
	1 Automatic cut-out 2A	
	1 Automatic cut-out 16A	
	1 Equipment protection	
	1 Line filter	
	1 Analogue Input Module 4-20mA	
	1 Converter Analog to Pulse	
	1 Device Server RS-232/422/485	
	1 Interface module	
	1 Power module	
	1 Terminal module E15	
	1 Terminal module P	
	1 Digital input module	
	1 Digital output module	
	1 Micro Memory Card	
	1 Relay PLC-RSC-24DC/1IC/ACT	
	1 Motor protection circuit breaker 11-16A	
	1 Bimetal Temperature Switch NC 50°C	
S10-9092	Set of Components I/O-Extension Cold Mill	1
	1 Analogue Input Module +/- 10V	
	1 Terminal Module E30	
	1 Power Supply 5V	
	1 Digital Converter Module	
S10-9086	Set of Components Trafo-Box	1
	1 Automatic cut-out, 6A	
	1 Cabinet fan	
	1 Motor protection circuit breaker 17-22A or 22-32A	
S10-9087-01	Transformer 115/230V, 4kVA of Trafo-Box	1
S10-9085-01	Transceiver for FO-ETN Connection 10/100 Mbit/s	1
S10-9085-02	Transceiver for FO-ETN Connection 1GBit/s	1

Product Code	Server, terminals and peripherals	Qty.
S10-9075	Inspection Server, PC with operating system license	1
S10-9076	Data Server, PC with operating system license	1
S10-9077	Thin Client (only thin client, no monitor)	1
S10-9078	Terminal-PC, PC with operating system license	1
S10-9079	19" TFT Monitor	1
S10-9080	UPS for server (Data Server or Inspection Server)	1
S10-9082-01	Incremental encoder with wheel for clean environment	1
S10-9082-02	Incremental encoder for dirty environments, Hengstler	1
S10-9088	External Harddisk USB	1