



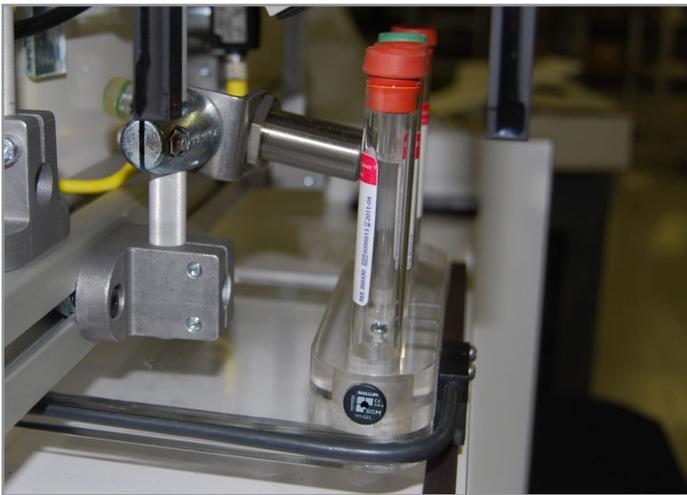
## Application Spotlight

### Vial Tracking in Lab Automation Equipment

As a practice, the medical lab automation industry uses printed barcodes to identify sample vials. Often these barcodes are applied skewed and are only on one side of the vial. This causes more processing time to line up the barcode, adding 5-10 seconds per vial. Each vial goes to multiple stations for testing, which means the 5-10 seconds additional processing time per vial is compounded per station. Because of the additional processing time, the amount of reagent that is put into each vial is limited in order to reduce further processing time of the vial. Balluff offers a time-saving, reagent maximizing solution using RFID data carriers to hold the job list and to identify the vial at each station.

- Increases amount of reagent used per vial
- Decreases processing time by eliminating the need to rotate vial
- Increases process flow by skipping unnecessary testing stations
- Highly reliable data retrieval and storage that is immune to wash down chemicals and bleach

#### Vial Identification and Tracking



Using RFID data carriers to identify the vial at each testing station allows a larger amount of reagent to be put into the vials because of the decreased processing time needed to align the barcode to the barcode reader. A 12% increase in reagent volume can be realized by using the RFID method over standard barcodes, thus making the test results more reliable. In addition, the use of RFID systems can improve quality by error-proofing lab automation systems. Sample (blood, genomics, agriculture, oil & gas etc.) identification can be done by using a barcode or read-only RFID system, but a read/write system will allow the test results to be written to the carrier of the sample allowing them to be married and maintained throughout the complete testing process. Being able to read/write to the data carrier on the fly allows the testing procedures to be completed quicker, resulting in increased throughput, saving time and money. Quality can be maintained by tracking the entire process which can be recalled when a quality issue arises.



Order Code	Part Number	Description	
BIS00NK	BIS M-305-001-S115	50x25x10mm flat read/write head	1
BIS0045	BIS M-111-02/L	Read/write data carrier, 2000 Byte	2
BCC00RA	BIS Z-501-PU1-05/M*	Read/write head cable, 5 m	3
BIS00EP	BIS M-407-039-003-06-S115	Ethernet TCP/IP processor	1
BCC00PU	BIS-C 526-PVC-00,5	Ethernet RJ45-M12 adaptor	4
BCC00T8	BKS-S 79-00	M12 power connector	4

\*Other lengths available.