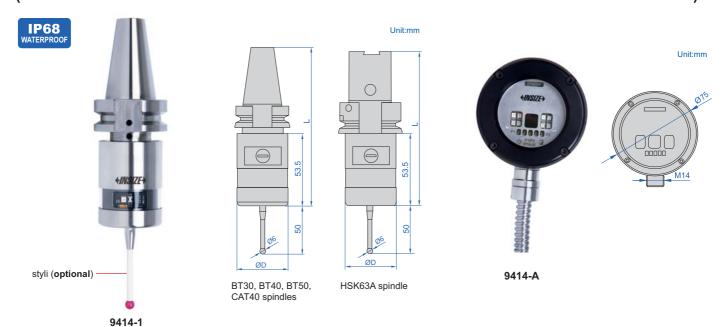
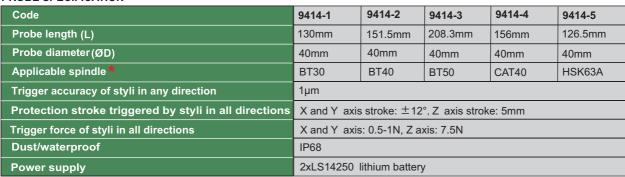
# INFRARED TRANSMISSION PROBES FOR CNC MACHINE TOOLS (CAN BE USED IN COMBINATION WITH ZERO SETTER WITH INFRARED TRANSMISSION)



- On-machine measurement of all kinds of small and medium-sized machining centers, CNC boring, milling machines and five-axis CNC machine tools
- Automatically set the workpiece coordinate and machining reference point before CNC machining process
- Automatically measure dimension and position coordinate during CNC machining
- Measure dimension, shape and position after CNC machining is completed
- Four kinds of SSR signals such as probe status, error, low voltage and pulse are transmitted to CNC machine tools
- Working status can be displayed on receiver LED indicator
- Signal transmitting range of probe can be set
- Infrared transmission, fast response, high reliability
- The battery (5% utilization rate per shift) can be used continuously for 90 days
- Supplied with measurement software package
- Can be used in combination with zero setter with infrared transmission (9415-1, 9415-2)
- Optional accessory: styli

### PROBE SPECIFICATION



<sup>\*</sup>SK and ISO spindle probes also can be customized

## **RECEIVER SPECIFICATION**

Code	9414-A			
Protection function	low battery voltage, overstroke and signal interrupt protection**			
Applicable	probe code <b>9414-1</b> , <b>9414-2</b> , <b>9414-3</b> , <b>9414-4</b> , <b>9414-5</b> ; zero setter code <b>9415-1</b> , <b>9415-2</b>			
Infrared transmission/reception range	3m			
Cable length	8m			
Dust/waterproof	IP68			
Power supply	input voltage: 24V±10% (DC), load current (max): 50mA			

<sup>\*\*</sup>When battery voltage is low or zero setter is in wrong state, receiver sends a signal to CNC machine to stop working



STYLI (OPTIONAL) (mm)

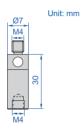
of tel (of nonze)					
Code	L1	L2	Ød	Material of rod***	Material of ball
9410-P1	18	13	4	stainless steel	ruby
9410-P2	18	13.5	5	stainless steel	ruby
9410-P3	18.5	13	3	stainless steel	ruby
9410-P4	19	8	2	carbide	ruby
9410-P5	19.5	4	1	carbide	ruby
9410-P6	50	40	2	carbide	ruby
9410-P7	50	34	5	ceramic	ruby
9410-P8	100	86	6	ceramic	ruby



# Unit: mm

## **EXTENSION ROD (OPTIONAL)**

Code	Material
9410-R1	ceramic

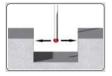


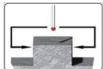
## application



## **MEASUREMENT SOFTWARE (INCLUDED)**

- 1. Styli automatic calibration
- 2. Protection of stylus during probe movement (avoid collision)
- 3. Groove and boss measurement





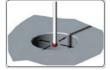
5. X or Y single-surface measurement

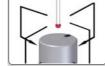




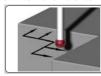
- 7. 4th axis measurement
- 8. Angle on X and Y plane measurement
- 9. Three points measurement of arc

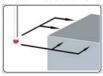






6. Internal and external corner measurement





10. Measure the distance between two holes

