

# MACHINISTS' LEVELS

## 98 MACHINISTS' LEVELS WITH GROUND AND GRADUATED VIALS

### 4-18"/100-450MM

These levels have ground and graduated main vials. All sizes have a cross test vial except the 4" (100mm) model.

The 12" (300mm) model also has a plumb vial and the 18" (450mm) size has a double plumb vial.

These vials are adjustable to a positive setting and are housed in a satin chrome finished brass tube with a friction-fit closing cover to prevent breakage.

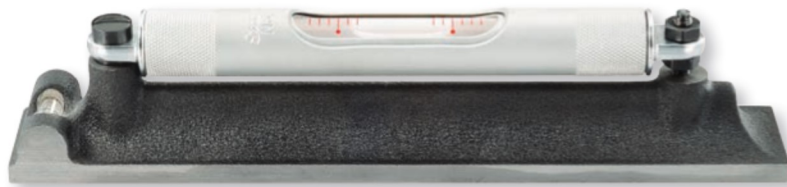
The base of the levels features an involute groove running the length of the base, which provides a reliable seat for round work such as pipes or shafting.

With the cross test vial, it is possible to simultaneously level in both directions. This prevents inaccuracies in the main vial reading caused by canting the level sidewise on round work.

The 6" through 18" (150-450mm) main level vials have graduations that are approximately 80-90 seconds or .005" per foot (0.42mm per meter). There are five, six, or seven lines on each side of the bubble, depending on the base length.



End view showing involute groove



98 Machinists' Levels with Ground and Graduated Vials					Tube and Plug Assemblies			
Size		Description	Without Case		In Finished Wood Case		Part No.	EDP
Inch	mm		Cat. No.	EDP	Cat. No.	EDP		
4	100	Without Cross Test Vial	98-4	50440				
6	150	With Cross Test Vial	98-6	50441			PT99430	64497
		With Cross Test Vial, Standard Letter of Certification*	98-6 W/SLC	66935				
8	200	With Cross Test Vial	98-8	50442			PT99431	64498
		With Single Plumb Vial and Cross Test Vial	98-12	50443	98Z-12	50444		
12	300	With Single Plumb Vial and Cross Test Vial	98-12 W/SLC	66934	98Z-12 W/SLC	66933	PT99432	64499
		With Double Plumb Vial and Cross Test Vial	98-18	50445	98Z-18	50446		

To guarantee extreme accuracy, the length of your level should not be longer than the work you are leveling.

\* Includes redemption card for Standard Letter of Certification (SLC)

