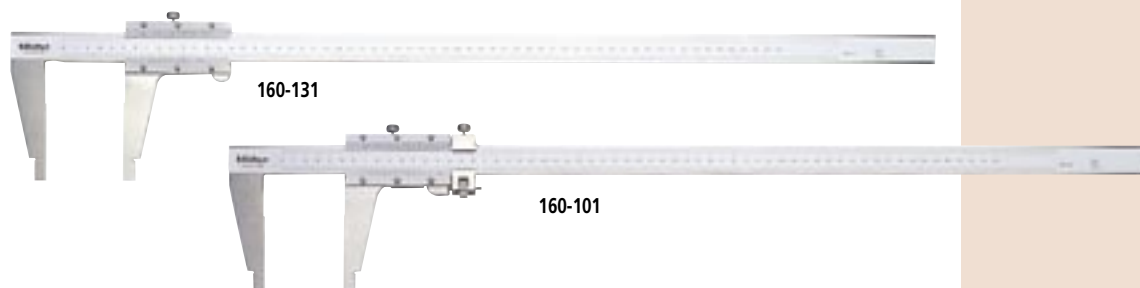


# Vernier Caliper

## SERIES 160 — with Nib Style Jaws and Fine Adjustment

### FEATURES

- The jaws have round measuring faces for accurate ID measurement.
- With fine adjustment carriage to feed the slider finely. (without 160-130~134)
- Inside and outside measurements can be directly read from the upper and lower slider graduations, respectively.



### SPECIFICATIONS

**Metric** with metric/metric double scale

Range*	Order No.	Accuracy	Remarks (lower scale graduation / upper scale graduation / Others)		
0 (20) - 450mm	<b>160-130</b>	±0.10mm	0.05mm	0.05mm	without fine adjustment
0 (20) - 600mm	<b>160-131</b>	±0.10mm	0.05mm	0.05mm	without fine adjustment
0 (20) - 1000mm	<b>160-132</b>	±0.15mm	0.05mm	0.05mm	without fine adjustment
0 (20) - 1500mm	<b>160-133</b>	±0.22mm	0.05mm	0.05mm	without fine adjustment
0 (20) - 2000mm	<b>160-134</b>	±0.28mm	0.05mm	0.05mm	without fine adjustment

\*( ): Minimum dimension in ID measurement

**Metric** with metric/metric double scale

Range*	Order No.	Accuracy	Remarks (lower scale graduation / upper scale graduation / Others)		
0 (10) - 300mm	<b>160-127</b>	±0.04mm	0.02mm	0.02mm	—
0 (20) - 450mm	<b>160-128</b>	±0.05mm	0.02mm	0.02mm	—
0 (20) - 600mm	<b>160-101</b>	±0.05mm	0.02mm	0.02mm	—
0 (20) - 1000mm	<b>160-104</b>	±0.07mm	0.02mm	0.02mm	—
0 (20) - 1500mm	<b>160-110</b>	±0.09mm	0.02mm	0.02mm	—
0 (20) - 2000mm	<b>160-113</b>	±0.12mm	0.02mm	0.02mm	—

\*( ): Minimum dimension in ID measurement

**Metric/Inch** with metric/inch double scale

Range*	Order No.	Accuracy	Remarks (lower scale graduation / upper scale graduation / Others)		
0 (10) - 300mm	<b>160-150</b>	±0.04mm	0.02mm	.001"	+10mm/.394" to reading in ID measurement
0 (20) - 450mm	<b>160-151</b>	±0.05mm	0.02mm	.001"	+20mm/.787" to reading in ID measurement
0 (20) - 600mm	<b>160-153</b>	±0.05mm	0.02mm	.001"	+20mm/.787" to reading in ID measurement
0 (20) - 1000mm	<b>160-155</b>	±0.07mm	0.02mm	.001"	+20mm/.787" to reading in ID measurement
0 (20) - 1500mm	<b>160-157</b>	±0.09mm	0.02mm	.001"	+20mm/.787" to reading in ID measurement
0 (20) - 2000mm	<b>160-159</b>	±0.12mm	0.02mm	.001"	+20mm/.787" to reading in ID measurement

\*( ): Minimum dimension in ID measurement

**Inch** with inch/inch double scale

Range*	Order No.	Accuracy	Remarks (lower scale graduation / upper scale graduation / Others)		
0 (.3") - 12"	<b>160-124</b>	±.0015"	.001"	.001"	—
0 (.5") - 18"	<b>160-116</b>	±.002"	.001"	.001"	—
0 (.5") - 24"	<b>160-102</b>	±.002"	.001"	.001"	—
0 (1") - 40"	<b>160-105</b>	±.003"	.001"	.001"	—
0 (1") - 60"	<b>160-111</b>	±.004"	.001"	.001"	—
0 (1") - 80"	<b>160-114</b>	±.005"	.001"	.001"	—

\*( ): Minimum dimension in ID measurement

**Inch/Metric** with inch/metric double scale

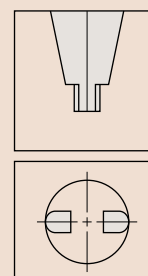
Range*	Order No.	Accuracy	Remarks (lower scale graduation / upper scale graduation / Others)		
0 (.3") - 12"	<b>160-125</b>	±.0015"	.001"	0.02mm	+3"/7.62mm to reading in ID measurement
0 (.5") - 18"	<b>160-118</b>	±.002"	.001"	0.02mm	+5"/12.7mm to reading in ID measurement
0 (.5") - 24"	<b>160-103</b>	±.002"	.001"	0.02mm	+5"/12.7mm to reading in ID measurement
0 (1") - 40"	<b>160-106</b>	±.003"	.001"	0.02mm	+1"/25.4mm to reading in ID measurement
0 (1") - 60"	<b>160-112</b>	±.004"	.001"	0.02mm	+1"/25.4mm to reading in ID measurement
0 (1") - 80"	<b>160-115</b>	±.005"	.001"	0.02mm	+1"/25.4mm to reading in ID measurement

\*( ): Minimum dimension in ID measurement

### Technical Data

Accuracy: Refer to the list of specifications.

Graduation: Refer to the list of specifications.



Round surface of jaws for accurate CD measurement

### DIMENSION

Unit: mm						
Range	L	a	b	c	d	e
0 - 300mm	445	95	25	12	20	10
0 - 450mm	630	125	100	18	25	14.8
0 - 600mm	780	125	100	18	25	14.8
0 - 1000mm	1240	172	140	24	32	17
0 - 1500mm	1800	212	180	30	32	19
0 - 2000mm	2300	220	180	30	40	23