

## SPRING-TYPE CALIPERS





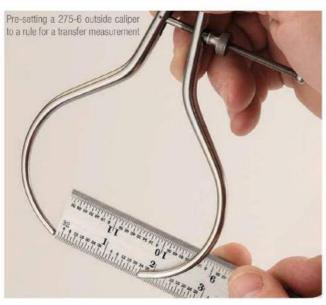
# 274, 275, 277 TOOLMAKERS' SPRING-TYPE CALIPERS AND DIVIDERS WITH ROUND LEGS AND SOLID NUT

3, 6"/75, 150MM

Toolmakers' Calipers and Dividers are the finest tools of their type. Designed for toolmakers and all good mechanics who require finer adjustment and better balance so a more sensitive "feel" can be obtained. Precision made to rigid Starrett standards throughout.

The fulcrum stud is hardened and the bearing surfaces of the legs are large enough to prevent any side deflection. The bow spring is strong and flexible, and the adjustment is centrally located in the legs to assure smooth action.

274, 275	, 277 Toolmakers'	Spring-Ty	ype Cali	pers and I	Dividers			
Size and	Approx. Capacity	Inside Ca Cat. No.	AGE TO SEE STATE	Outside (			EDP	
3"	75mm	274-3		POLICIA POLICIA PROPERTY IN CONTRACTOR IN CO	51305	Activities (Colonial)	51309	
6"	150mm	274-6	51303	275-6	51307	277-6	51311	



### 73, 79, 83 "YANKEE" SPRING-TYPE CALIPERS AND DIVIDERS WITH FLAT LEGS AND QUICK-SPRING OR SOLID NUT

4, 6, 8, 12"/100, 150, 200, 300MM

"Yankee" Calipers and Dividers are made from a high-grade steel and well-finished. The legs are made of flat stock and are very durable. The fulcrum stud is hardened and has a smooth bearing surface. The bow spring, although flexible, is exceedingly strong to assure reliability.

All sizes are available with either spring nut or solid nut. The Starrett quick-adjusting automatic-closing spring nut is designed for making fast, positive adjustments. The threads of the nut firmly engage the screw at the slightest pressure from the leg. When the pressure is withdrawn, the nut automatically releases itself, sliding freely over the screw. This feature saves time in opening and closing.

Size and	Approx. Capacity	Solid Nut		Quick-Spr	ing Nut
Inch	mm	Cat. No.	EDP	Cat. No.	EDP
4"	100mm	73A-4	50334	73B-4	50335
6"	150mm	73A-6	50336	73B-6	50337
8"	200mm	73A-8	50338	73B-8	50339
12"	300mm	73A-12	50342	73B-12	50343
79 "Yank	ee" Spring-Type O	ıtside Calipe	ers		
4"	100mm	79A-4	50364	79B-4	50365
6"	150mm	79A-6	50366	79B-6	50367
8"	200mm	79A-8	50368	79B-8	50369
12"	300mm	79A-12	50372	79B-12	50373
83 "Yank	ee" Spring-Type Di	viders			
4"	100mm	83A-4	50376	83B-4	50377
6"	150mm	83A-6	50378	83B-6	50379
8"	200mm	83A-8	50380	83B-8	50381
12"	300mm	83A-12	50384	83B-12	50385







### HERMAPHRODITE CALIPERS

Starrett Hermaphrodite Calipers are used in layout work for locating and testing centers, laying out distances from an edge, etc.

We offer a complete choice from which machinists and toolmakers can select to best suit their requirements.

The rugged, properly shaped legs are made of finely finished, high-grade steel.

Sizes listed are the lengths of the legs.

Actual measuring capacity is approximately one-third greater than the leg size.

## HERMAPHRODITE CALIPERS

### 243 FIRM-JOINT HERMAPHRODITE CALIPERS

#### 6"/150MM

This caliper features a round, adjustable leg and an improved firm-joint, which allows the joint to be adjusted at any tension. The leg that holds the adjustable point is offset.

#### 563 FIRM-JOINT HERMAPHRODITE CALIPERS

#### 6"/150MM

This caliper has a round, adjustable point held by a straight leg. An improved, firm-joint feature permits the joint to be adjusted at any desired tension.

# 42 LOCK-JOINT HERMAPHRODITE CALIPERS WITH FINE-ADJUSTMENT

### 6, 8"/150, 200MM

These calipers have an adjustable point, locking joint and fine-adjustment feature for close measurements. After the legs have been set to approximate size and the joint locked, the final adjustment is made by a few turns of the knurled adjusting nut.

Size*				
Inch	mm	Cat. No.	EDP	
6"	150mm	243-6	51143	
0		563-6	52572	
42 Lock-Joint H	lermaphrodite Calipers			
6"	150mm	42-6	50263	
8"	200mm	42-8	50264	

<sup>\*</sup> Actual capacity is one-third greater than the listed size.









# FIRM AND LOCK-JOINT CALIPERS



# IMPROVED FIRM-JOINT CALIPERS

26 (OUTSIDE)

6-36"/150-900MM

27 (INSIDE)

### 6-24"/150-600MM

- Improved joint designed for tension adjustment
- Tension will not change with leg movement
- Legs are made from a high-grade steel, are ruggedly constructed and well-finished



LOCK-JOINT CALIPERS WITH FINE-ADJUSTMENT

38 (OUTSIDE) AND 39 (INSIDE)

#### 6-24"/150-600MM

- Joint can be quickly and firmly locked by a partial turn of the large knurled disc
- Spring washer under the disc maintains proper leg tension when joint is unlocked
- Provided with an adjusting screw to permit fine-adjustments for close measurements
- Once legs have been set to approximate size and joint locked, final adjustment is made by a few turns of the knurled adjusting nut
- Legs are made of well shaped high-grade steel and are ruggedly constructed and nicely finished



# LOCK-JOINT TRANSFER TYPE CALIPERS WITH FINE ADJUSTMENT

36 (Outside) AND 37 (Inside)

#### 6-24"/150-600MM

One of the handiest and most versatile calipers ever made, Starrett Lock-Join Transfer Calipers feature a transfer arm, a fine-adjustment screw, and a locking joint.

- Transfer arm allows transfer measurements from places where it is necessary to move the legs after they have been set to size
- Adjusting screw permits close adjustment for fine measurements
- Once legs have been set to approximate size and the joint locked, fina adjustment is made with a few turns o the knurled adjusting nut
- Joint can be quickly and firmly locked by a partial turn of the large knurled disc
- Spring washer under the disc maintains proper tension of legs when joint is loosened
- Ruggedly constructed legs from highgrade steel and are well-shaped and nicely finished

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Size*		26 Outside Calipers		27 Inside Calipers 3		36 Outsid	36 Outside Calipers		37 Inside Calipers		38 Outside Calipers		39 Inside Calipers	
in	mm	Cat. No.	EDP	Cat. No.	EDP	Cat. No.	EDP	Cat. No.	EDP	Cat. No.	EDP	Cat. No.	EDP	
6	150	26-6	50186	27-6	50193	36-6	50245	37-6	50249	38-6	50253	39-6	50257	
12	300	26-12	50189	27-12	50196	36-12	50246	37-12	50250	38-12	50254	39-12	50258	
18	450	26-18	50190	27-18	50197									
24	600	26-24	50191	27-24	50198	36-24	50248	37-24	50252	38-24	50256	39-24	50260	
36	900	26-36	50192											

<sup>\*</sup> Actual capacity is one-third greater than the listed size.







## TRAMMEL HEADS



# 59 TRAMMEL HEADS, DIVIDER POINTS,

The 59 Trammel Head is very useful for laying out and scribing circles beyond the capacity of ordinary dividers. The trammel heads have a clamping device that firmly holds various attachments.

The attachments consist of two sizes of caliper legs, 6", 9-1/2" (150, 238mm), two sizes of divider points 6", 9" (150, 225mm) which are eccentric for close settings, and a set of four ball points with holder. The ball points with 6" (150mm) holder are for scribing circles from the center of any hole up to 1-1/2" (38 mm) in diameter. One of the large caliper legs features a joint operated by an eccentric thumb piece for fine adjustments. A pencil may be clamped in either head in place of the caliper legs or divider points.

The heads will accommodate any size beam from 3/4 - 1-1/2" (19-38mm) in width. Since beam length requirements vary widely, and they are easy for the user to fashion, we do not furnish a beam.



# 50 IMPROVED TRAMMEL HEADS WITH DIVIDER POINTS, PENCIL SOCKET

Used to measure the distance between points that are too great to be reached with dividers. The heads are die cast with black wrinkle finish and have hardened, forged steel divider points. The points screw into the heads, and the pencil socket accompanying each set of trammel heads can be used in place of either point. 50A has an adjustable point. Longer points (5"/125mm) are also available. A beam is not furnished with these trammels. The heads will accommodate a beam up to 3/8" (9.5mm) thick and 3/4" (19mm) wide.

Point Size	е			
Inch	mm	Description	Cat. No.	EDP
3, 2-1/2	75, 63	(Adjustable) Includes 2 Heads, 2 Points, Pencil Socket	50A	50268
3	75	Includes 2 Heads, 2 Points, Pencil Socket	50B	50269
50 (Longe	er) Points Onl	y ,		
5, 4-1/2	125, 113	2 Adjustable Points for Starrett 50A	50CA	50270
5	125	2 Points for Starrett 50B	50CB	50271
59 Tramn	nel Heads, Div	rider Points, Attachments		
Description	on		Cat. No.	EDP
2 Tramme	Heads, 2 Sm	all Points (6"/150mm)	59A	50297
Set of 4 B	all Points and	One Holder Only	59B	*
Pair Small Caliper Legs Only (6"/150mm)				*
Pair Large Caliper Legs Only (9-1/2"/228mm)				*
Large Poir	nts Only (9"/22	(5mm)	59E	50301
Complete	Set: 59A, B, C	D. E	59F	50302

<sup>\* 59</sup>B, 59C and 59D sold only as part of 59F set.







## STEEL BEAM TRAMMELS

# C251 STEEL BEAM TRAMMELS AND ATTACHMENTS

### 10-1/2 - 20"/260 - 500MM BEAMS

A rigid, well-designed trammel for layout, scribing, and measuring distances and circles. The top of the beam is flattened so that when the trams are clamped in position, they will not turn from pressure on the points. The trams are held in place by spring friction, which prevents them from sliding when the nuts are loosened for setting. One tram has a fine-adjusting screw for the points.

Each tram has a knurled swivel grip at the top that turns freely, making it very convenient to swing the tool when scribing circles. The 3" (75mm) points may be adjusted for length in the spring chucks and can be easily replaced with caliper legs or other attachments listed. The ball points with 3" (75mm) holder permit working from holes up to 1-1/2" (38mm) in diameter. A pair of 3" (75mm) caliper points is included with each trammel.

- Ideal for draftsmen, engineers, metal-workers for layout work, scribing and measuring
- Furnished with rigid steel beam 10-1/2" (263mm), 14-1/2" (360mm) or 20" (500mm) sizes
- Bright chrome finish for longer life, resistance to corrosion
- Highly versatile handy attachments available to extend range and measure



Max. Dividing I	Range	Max. Circle S	cribing Diameter Range	Beam Size			
Inch	mm	Inch	mm	Inch	mm	Cat. No.	EDP
9"	225mm	18"	450mm	10-1/2"	263mm	C251A	51205
13-1/2"	338mm	26"	650mm	14-1/2"	363mm	C251B	51207
18"	450mm	36"	900mm	20"	500mm	C251C	51209
C251 Trammel	<b>Individual Attachments</b>	Only				10	
Description		Photo Key	Cat. No.	EDP			
Coupling, with E	xtra 20" (600mm) Beam	D	C251D	51211			
Ball Points and	Holder	E	C251E	51212			
	0-1-1/0-1/11- 07011	Н	C251H	51214			
Steel Point and	Socket (Une) (Has .U/6"	[1.311111] Hole diameter	to riola ladday				





