

SQUARES

Starrett squares are offered in a practical variety of styles to suit the needs of the individual, whether it be a toolmaker, mechanic, carpenter, or a "do-it-yourself" homeowner.

The Starrett name has always been associated with squares because our founder, Laroy Starrett, invented the combination square in 1877. The success of this tool led to the beginning of The L.S. Starrett Company in 1880. The combination square is one of the world's most practical and versatile tool inventions — the basic tool for every builder and craftsman.

SOUARES

In this section you will see combination squares, solid test or try squares, and special squares for tool and diemakers and carpenters.

To check squareness at the highest level of accuracy, we recommend our TS True Squares. These are available in three styles down to the amazing accuracy of 1/4 second. These are listed in the Gage Block Section of this catalog.

We also offer granite squares which are listed in the Granite Surface Plate Section of this catalog. The main purpose of these squares is for checking the X, Y, and Z axes on CNC machine tools and coordinate measuring machines.



COMBINATION SQUARES FEATURE:

- A choice of smooth-finished forged and hardened (longer wearing) steel square head and center head, or a cast iron square head and center head. All bearing surfaces are accurately ground.
- A choice of stable cast iron protractors reversible or non-reversible style – all nicely finished with a black, durable finish
- Protractors are furnished as reversible, with shoulders on both sides of the blade, or non-reversible, with a single shoulder on one side of the blade only. All protractors also have a spirit level.
- Protractor heads have revolving turrets with directreading double graduations, 0-180° in opposite directions. This permits the direct reading of angles and supplementary angles.
- Most square heads have a handy spirit level and a hardened scriber
- Square blades and protractor heads come in a choice of regular or Starrett no-glare satin chrome finish
- A reversible lock bolt allows the blade to be turned over or end-for-end without removing the lock bolt or nut. This ensures true alignment of the blade and heads.
- Square blades feature easy-to-read, sharp graduations and are available in many convenient styles
- Separate parts and attachments available

TIPS FOR USING SQUARES AND CENTER HEADS

First, make sure your square is clean and that it is located against a flat surface – burrs on metal or knots and bumps on wood will throw squareness off.

Second, to scribe a line, the steel scriber can be used on any material, but usually on metal. A carpenter's pencil is normally used on wood, but if finer lines are needed, a light cut with a utility knife may be used. This is also handy when scribing cross grain.

Third, when using a center head on a piece that may not be completely round, it is good practice to scribe more than two intersecting lines.







Starrett combination squares consist of a photo-engraved, hardened and tempered steel rule (or blade) on which is mounted on an adjustable square head.

Starrett Combination Square Heads are made of cast iron or forged and hardened steel and are not to be confused with the cheap imitation plastic or die cast heads on the market. The value of Starrett tools is that they are accurate and will last.

As the name indicates, these tools can be used for many different purposes — a complete substitute for a whole set of common solid try squares, a 45 degree miter, a depth gage, a height gage, a marking or scribing gage, a level, a plumb and, by withdrawing the blade, it can also be used as a precision rule. This saves littering the workbench with too many tools, each being necessary but may be used less. This results in the goal of all good craftsmen — better accuracy and greater efficiency.

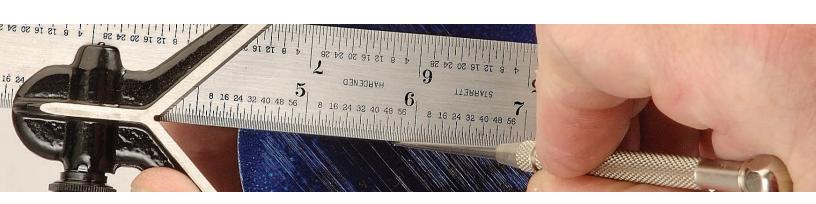
The combination square with center head is a basic combination set. The center head is a convenient and accurate way to find the center of round work.

Complete combination sets feature the combination square with a center head and with either a reversible or non-reversible protractor. Details of the protractors are also included in the Protractor and Angle Measurements Section of this catalog.









11H CAST IRON HEADS

With reversible lock bolt, scriber, spirit level (except 4"), and hardened steel, photo-engraved blade with regular or satin chrome finish. Cast iron head with black wrinkle finish.



33H FORGED AND HARDENED STEEL HEADS

These squares have the same features as the 11 cast iron heads except that the square heads are forged hardened steel with smooth, black enamel finish.



4-24" Combination S	quares with Square H	lead				
		33H				
11H		Forged and Hardened Steel Heads with Smooth				
Cast Iron Heads with Black Wrinkle Finish		Black Enamel Finish				
Cat. No.	EDP	Cat. No.	EDP	Size	Graduation	Blade
11H-4-4R	50049	33H-4-4R	50203	4"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11H-4-4R	56360	C33H-4-4R	56390	4	4h – otils, Totils, Quick heading 3211us, 04tils	Satin Chrome
11H-6-4R	50051	33H-6-4R	50205	6"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11H-6-4R	56362	C33H-6-4R	56392	U	411 – Ottis, Tottis, Quick neading 321ius, 04tils	Satin Chrome
11H-6-16R	50053	33H-6-16R	50207	6"	16R - Quick Reading 32nds, 64ths, Aircraft	
C11H-6-16R	56364	C33H-6-16R	56394	O	Quick Reading 50ths, 100ths	Satin Chrome
11H-12-4R	50055	33H-12-4R	50209	12"	4R - 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11H-12-4R	56366	C33H-12-4R	56396	12"	4D Otho 16tho Quick Booding 22ndo 64tho	Catin Chromo
C11H-12-4RW/SLC*	66896	C33H-12-4RW/SLC*	66897	12	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Sauli Cilionie
11H-12-16R	50057	33H-12-16R	50211	12"	16R - Quick Reading 32nds, 64ths, Aircraft	Regular
C11H-12-16R	56368	C33H-12-16R	56398	12	Quick Reading 50ths, 100ths	Satin Chrome
11H-18-4R	50059	33H-18-4R	50213	18"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11H-18-4R	56370	C33H-18-4R	56400	10	4R – otils, Totils, Quick Readilig 32Hds, 64ths	Satin Chrome
11H-18-16R	50061	33H-18-16R	50215	18"	16R - Quick Reading 32nds, 64ths, Aircraft	Regular
C11H-18-16R	56372	C33H-18-16R	56402	10	Quick Reading 50ths, 100ths	Satin Chrome
11H-24-4R	50063	33H-24-4R	50217	24"	4D Othe 16the Quiel Deading 20nds 64ths	Regular
C11H-24-4R	56374	C33H-24-4R	56404	24	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Satin Chrome
11H-24-16R	50065	33H-24-16R	50219	24"	16R - Quick Reading 32nds, 64ths, Aircraft	Regular
C11H-24-16R	56376	C33H-24-16R	56406	24	Quick Reading 50ths, 100ths	Satin Chrome
150-600mm Combin	ation Squares with Sq	uare Head				
		33MH				
11MH		•	teel Heads with Smooth			
	Black Wrinkle Finish					
Cat. No.	EDP	Cat. No.	EDP	Size	Graduation	Blade
11MH-150	56241	33MH-150	56247	150mm	mm and 1/2mm Both Sides	Regular
C11MH-150	56380	C33MH-150	56410	100111111	min and 1/2mm both class	Satin Chrome
11MH-300	56243	33MH-300	56249	300mm	mm and 1/2mm Both Sides	Regular
C11MH-300	56382	C33MH-300	56412	000111111	min and 1/2mm both class	Satin Chrome
11MH-600	56245	33MH-600	56251	600mm	mm and 1/2mm Both Sides	Regular
C11MH-600	56384	C33MH-600	56414	OOOIIIII	min and 1/2mm both class	Satin Chrome
300-600mm and 11-	3/4 – 23-1/2" Combin	ation Squares with Squa	re Head			
		33MEH				
11MEH			teel Heads with Smooth			
	Black Wrinkle Finish		FDD	0:	0	Dist
Cat. No.	EDP	Cat. No.	EDP	Size	Graduation	Blade
11MEH-300	50067	33MEH-300	50221		1/2mm and 32nds One Side; mm and 64ths	
C11MEH-300	56386	C33MEH-300	56416	11-3/4"	Reverse Side	Satin Chrome
11MEH-600	56121	33MEH-600	50237		1/2mm and 32nds One Side; mm and 64ths	O .
C11MEH-600	56388	C33MEH-600	56418	23-1/2"	Reverse Side	Satin Chrome

^{*} Includes redemption card for Standard Letter of Certification (SLC).





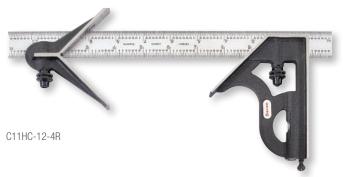
COMBINATION SQUARES WITH CENTER HEADS

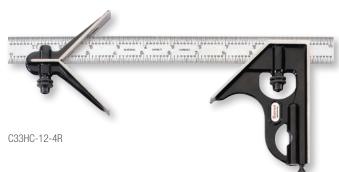
11HC CAST IRON HEADS

With reversible lock bolts, scriber, spirit level (except 4"), and hardened steel, photo-engraved blade with regular or satin chrome finish. Cast iron heads with black wrinkle finish.

33HC FORGED AND HARDENED STEEL HEADS

These squares have the same features as the 11HC cast iron heads except that the square heads and center heads are forged hardened steel with smooth, black enamel finish.





4-24" Combination	n Squares with Square a	ind Center Heads				
		33HC				
11HC			d Steel Heads with Smooth			
	ith Black Wrinkle Finish					
Cat. No.	EDP	Cat. No.	EDP	Size	Graduation	Blade
11HC-4-4R	50050	33HC-4-4R	50204	4"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11HC-4-4R	56361	C33HC-4-4R	56391	·	The said, round, quient roughing of raid	Satin Chron
11HC-6-4R	50052	33HC-6-4R	50206	6"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11HC-6-4R	56363	C33HC-6-4R	56393	Ü	, , ,	Satin Chron
11HC-6-16R	50054	33HC-6-16R	50208	6"	16R – Quick Reading 32nds, 64ths, Aircraft	Ü
C11HC-6-16R	56365	C33HC-6-16R	56395		Quick Reading 50ths, 100ths	Satin Chron
11HC-12-4R	50056	33HC-12-4R	50210	12"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11HC-12-4R	56367	C33HC-12-4R	56397		•	Satin Chron
11HC-12-16R	50058	33HC-12-16R	50212	12"	16R – Quick Reading 32nds, 64ths, Aircraft	
C11HC-12-16R	56369	C33HC-12-16R	56399		Quick Reading 50ths, 100ths	Satin Chron
11HC-18-4R	50060	33HC-18-4R	50214	18"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11HC-18-4R	56371	C33HC-18-4R	56401		_	Satin Chron
11HC-18-16R	50062	33HC-18-16R	50216	18"	16R – Quick Reading 32nds, 64ths, Aircraft	
C11HC-18-16R	56373	C33HC-18-16R	56403		Quick Reading 50ths, 100ths	Satin Chron
11HC-24-4R	50064	33HC-24-4R	50218	24"	4R - 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
C11HC-24-4R	56375	C33HC-24-4R	56405		•	Satin Chron
11HC-24-16R	50066	33HC-24-16R	50220	24"	16R – Quick Reading 32nds, 64ths, Aircraft	Ü
C11HC-24-16R	56377	C33HC-24-16R	56407		Quick Reading 50ths, 100ths	Satin Chron
150-600IIIII COIII	oination Squares with Sc	33MHC	8			
11MHC			d Steel Heads with Smooth			
	ith Black Wrinkle Finish		u steet tieaus with sillouth			
Cat. No.	EDP	Cat. No.	EDP	Size	Graduation	Blade
11MHC-150	56242	33MHC-150	56248			Regular
C11MHC-150	56381	C33MHC-150	56411	150mm	mm and 1/2mm Both Sides	Satin Chron
11MHC-300	56244	33MHC-300	56250			Regular
C11MHC-300	56383	C33MHC-300	56413	300mm	mm and 1/2mm Both Sides	Satin Chron
11MHC-600	56246	33MHC-600	56252			Regular
C11MHC-600	56385	C33MHC-600	56415	600mm	mm and 1/2mm Both Sides	Satin Chron
	1-3/4 – 23-1/2" Combir					Outill Official
		33MEHC				
11MEHC		Forged and Hardened	Steel Heads with Smooth			
Cast Iron Heads w	ith Black Wrinkle Finish	Black Enamel Finish				
Cat. No.	EDP	Cat. No.	EDP	Size	Graduation	Blade
11MEHC-300	50068	33MEHC-300	50222	300mm and	1/2mm and 32nds One Side; mm and 64ths	Regular
C11MEHC-300	56387	C33MEHC-300	56417	11-3/4"	Reverse Side	Satin Chron
11MEHC-600	50075	33MEHC-600	50238	600mm and	1/2mm and 32nds One Side; mm and 64ths	Regular
C11MEHC-600	56389	C33MEHC-600	56419	23-1/2"	Reverse Side	Satin Chrom

COMBINATION SETS

COMBINATION SQUARE WITH CENTER AND REVERSIBLE PROTRACTOR HEADS

435 SQUARE, CENTER AND PROTRACTOR HEAD

CAST IRON

With reversible lock bolts, scriber, spirit level in both square head and protractor head, direct reading double 180° protractor scale, hardened steel, photoengraved blade. Cast iron heads with black wrinkle finish. Also available with satin chrome blade and protractor head.





434 FORGED AND HARDENED STEEL SQUARE AND CENTER HEADS, CAST IRON PROTRACTOR HEAD

THE VERY BEST SETS AVAILABLE

These squares have the same features as the 435 except that the square heads and center heads are forged, hardened steel with smooth, black enamel finish.

12-24" Combinatio	on Sets with Square, Cer	ator and Povorcible Pro	tractor Hoad and Blado		<u> </u>	
12-24 Combinatio	on Sets With Square, Cer	434 Sets	iractor nead and brade			
435 Sets			Square and Center Heads, Cast			
	ith Black Wrinkle Finish	· ·	with Smooth Black Finish			
Cat. No.	EDP	Cat. No.	EDP	Size	Graduation	Blade
435-12-4R	51556	434-12-4R	51542			Regular
C435-12-4R	66682	C434-12-4R	51548	12"	4R-8ths, 16 ths, Quick Reading 32 nds, 64 ths	Satin Chrome
		C434-12-4R W/SLC*	66898			
435-12-16R	51557	434-12-16R	51543	12"	16R - Quick Reading 32nds, 64ths,	
105 10 104	E4.EE0	C434-12-16R	51549		Aircraft Quick Reading 50ths, 100ths	Satin Chrome
435-18-4R**	51558	434-18-4R** C434-18-4R**	51544 51550	18"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular Satin Chrome
		434-18-16R**	51545		16R – Quick Reading 32nds, 64ths,	
		C434-18-16R**	51551	18"	Aircraft Quick Reading 50ths, 100ths	Satin Chrome
435-24-4R**	51559	434-24-4R**	51546	0.411	,	Regular
		C434-24-4R**	51552	24"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Satin Chrome
		434-24-16R**	51547	24"	16R - Quick Reading 32nds, 64ths,	Regular
		C434-24-16R**	51553	24	Aircraft Quick Reading 50ths, 100ths	Satin Chrome
300-600mm Comb	ination Sets with Squar		le Protractor Head and Blade			
40514.0		434M Sets				
435M Sets	ith Plank Wrinkla Einiah	•	Square and Center Heads, Cast with Smooth Black Finish			
Cat. No.	EDP	Cat. No.	FDP	Size	Graduation	Blade
435M-300	66177	434M-300	56255			Regular
C435M-300	61918	C434M-300	56420	300mm	mm and 1/2mm Both Sides	Satin Chrome
435M-600**	66681	434M-600**	56256	000	14/0 - B II 011	Regular
		C434M-600**	56421	600mm	mm and 1/2mm Both Sides	Satin Chrome
300-600mm and 1	1-3/4 - 23-1/2" Combin	ation Sets with Square	e, Center and Reversible Protracto	r Head and B	lade	
		434ME Sets				
435ME Sets		•	Square and Center Heads, Cast			
			vith Smooth Black Finish	C:	Creduction	Diada
Cat. No. 435ME-300	EDP 51560	Cat. No. 434ME-300	EDP 51554	Size	Graduation 1/2mm and 32nds One Side; mm and	Blade
433IVIE-3UU	31300	C434ME-300	56422	11-3/4"	64ths Reverse Side	Satin Chrome
435ME-600**	51561	434ME-600**	51555		1/2mm and 32nds One Side; mm and	
		C434ME-600**	56423	23-1/2"	64ths Reverse Side	Satin Chrome

^{*} Includes redemption card for Standard Letter of Certification (SLC).

^{**} Does not include case.





COMBINATION SETS

COMBINATION SQUARE WITH CENTER AND NON-REVERSIBLE PROTRACTOR HEAD

9 Combination Sets with Square, Center and Non-reversible Protractor Head

CAST IRON

With reversible lock bolts, scriber, spirit level in both square head and protractor head, direct reading double 180° protractor scale, and hardened steel, photoengraved blade. Cast iron heads with black wrinkle finish. Also available with satin chrome blade and protractor head.



12-24" Combination Sets with Square, Center and Non-reversible Protractor Head and Blade							
Cast Iron Heads with Blad	ck Wrinkle Finish						
Cat. No.	EDP	Size	Graduation	Blade			
9-12-4R C9-12-4R	50042 50046	12"	4R - 8ths, 16ths, Quick Reading 32nds, 64ths	Regular Satin Chrome			
9-12-16R	50043	12"	16R – Quick Reading 32nds, 64ths, Air Craft Quick Reading 50ths, 100ths	Regular			
9-18-4R	50044	18"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular			
9-24-4R	50045	24"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular			
300-600mm Combination	Sets with Square, Center	and Non-reversible Protra	ctor Head and Blade				
Cast Iron Heads with Blac	ck Wrinkle Finish						
Cat. No.	EDP	Size	Graduation	Blade			
9M-300	56253	300mm	mm and 1/2mm Both Sides	Regular			
9M-600	56254	600mm	mm and 1/2mm Both Sides	Regular			
300-600mm and 11-3/4 -	- 23-1/2" Combination Se	ts with Square, Center and	Non-Reversible Protractor Head and Blade				
Cast Iron Heads with Blac	ck Wrinkle Finish						
Cat. No.	EDP	Size	Graduation	Blade			
9ME-300	50047	300mm and 11-3/4"	1/2mm and 32nds One Side; mm and 64ths Reverse Side	Regular			
9ME-600	50048	600mm and 23-1/2"	1/2mm and 32nds One Side; mm and 64ths Reverse Side	Regular			

COMBINATION SETS

BLADES FOR COMBINATION SQUARES, SETS AND BEVEL PROTRACTORS

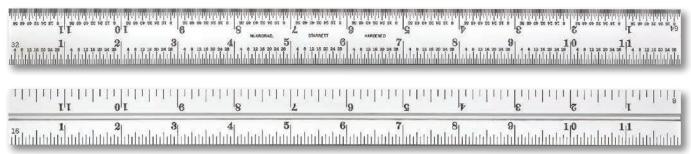
INCH, MILLIMETER AND INCH/MILLIMETER

The blades listed below fit any head according to the sizes noted in the charts on all combination squares, combination sets and bevel protractors. The 12", 18", 24", 36" and 48" and 300mm and 600mm sizes are interchangeable. Exception: Starrett 33J and 8 Combination Squares. (For these, see 33J and 8 listings.)

Cat. No.	EDP	Size	Approx. Width x Thickness	Graduation	Finish
34-4R	50076				Regular
CB4-4R	50077	4"	5/8 x 1/16"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Satin Chrom
CB4-16R	50078	4"	5/8 x 1/16"	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	Satin Chrom
36-4R	50079	6"	0/4 5/04!!		Regular
CB6-4R	50080	6"	3/4 x 5/64"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Satin Chrom
36-16R	50081	6"	3/4 x 5/64"	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	Regular
CB6-16R	50082	O	3/4 X 3/04	Ton — Quick heading 32110S, 04thS, Alician Quick heading 30thS, 100thS	Satin Chron
312-4R	50083	12"	1 x 3/32"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
CB12-4R	50084			411 - Otils, Totils, Quick readility 3211ds, 04tils	Satin Chron
CB12-6R	50085	12"	1 x 3/32"	6R – Aircraft Quick Reading 50ths and 10ths	Satin Chron
312-16R	50086	12"	1 x 3/32"	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	Regular
CB12-16R	50087	12	T X G/GE	Quiot riodding oznao, o ano, morait Quiot riodding ootho, rootho	Satin Chron
318-4R	50088	18"	1 x 3/32"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
CB18-4R	50089		. x 6, 62	The state, really quark reading series, series	Satin Chron
B18-16R	50090	18"	1 x 3/32"	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	Regular
CB18-16R	50091				Satin Chron
324-4R	50092	24"	1 x 3/32"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Regular
CB24-4R	50093	0.411	1 0/0011	CD. Aircraft Ovials Danding Foths and 10ths	Satin Chron
CB24-6R 324-16R	50094 50095	24"	1 x 3/32"	6R – Aircraft Quick Reading 50ths and 10ths	Satin Chror Regular
CB24-10h	50095	24"	1 x 3/32"	16R - Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	Satin Chror
CB36-4R	50090			4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Satin Chron
CB36-16R	50097	36"	1 x 3/32"	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	
CB48-4R	67102	48"	1 x 3/32"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Satin Chror
			ets and Bevel Protractors	Tit Otilo, Totilo, Quick Houding Ozhido, Ottilo	oatin onto
Cat. No.	EDP	Size	Approx. Width x Thickness	Graduation	Finish
3150-35	55985	450			Regular
CB150-35	55988	150mm	19 x 2mm	35 – mm and 1/2mm Both Sides	Satin Chron
3300-35	55986	200,000	0F v 0 4mm	OF many and 1/Opens Dath Cidas	Regular
CB300-35	55989	300mm	25 x 2.4mm	35 – mm and 1/2mm Both Sides	Satin Chror
3600-35	55987	600mm	0E v 0 4mm	2E mm and 1/2mm Bath Cidas	Regular
CB600-35	55990	600mm	25 x 2.4mm	35 – mm and 1/2mm Both Sides	Satin Chron
			quares, Sets and Bevel Protr		
Cat. No.	EDP	Size	Approx. Width x Thickness	Graduation	Finish
3150-36	55991	150mm and 5-3/4"	19 x 2mm	36 – 1/2mm and 32nds One Side; mm and 64ths Reverse Side	Regular
CB150-36	55992	130111111 (110 0 0/ 4	TO A LITTI	1/ Emm and Oznao one oldo, min and orale neverse olde	Satin Chror
3300-36	50101	300mm and 11-3/4"	25 x 2.4mm	36 – 1/2mm and 32nds One Side; mm and 64ths Reverse Side	Regular
CB300-36	55993	03011111 unu 11 0/4	LO A L. TIIIII	1/ Emm and Oznao one oldo, min and orale neverse oldo	Satin Chron
3600-36	50102	600mm and 23-1/2"	25 x 2.4mm	36 – 1/2mm and 32nds One Side; mm and 64ths Reverse Side	Regular
CB600-36	55994	23011111 4110 20 172			Satin Chron

All sizes packed one per envelope.

CB12-4R







COMBINATION SQUARE BLADES

SQUARE HEADS, CENTER HEADS AND PROTRACTOR HEADS FOR COMBINATION SQUARES, COMBINATION SETS AND BEVEL PROTRACTORS

The heads listed fit any blade according to the sizes noted in the charts on all combination squares, combination sets and bevel protractors. Sizes 12", 18", 24", 36", and 48" and 300mm and 600mm are interchangeable. When ordering, specify complete catalog number and length of blade. Exception: Starrett 33J and 8 Combination Squares. (For these, see 33J and 8 listings.)

Square Heads Only fo	Square Heads Only for Combination Squares, Combination Sets and Bevel Protractors							
		Forged and Hardene Black Enamel Finish	d Steel with Smooth					
Cat. No.	EDP	Cat. No.	EDP	Fits Blade Size				
H11-4	50069	H33-4	50223	4"				
H11-6	50070	H33-6	50224	6"				
H11-1224	50071	H33-1224	50225	12" (300mm) 18" 24" (600mm)				
Center Heads Only fo	Center Heads Only for Combination Squares, Combination Sets and Beyel Protractors							



				24 (00011111)			
Center Heads Only for Combination Squares, Combination Sets and Bevel Protractors							
		Forged and Hardene	d Steel with Smooth				
Cast Iron Black Wrink	le Finish	Black Enamel Finish					
Cat. No.	EDP	Cat. No.	EDP	Fits Blade Size			
C11-4	50072	C33-4	50226	4"			
C11-6	50073	C33-6	50227	6"			
				12" (300mm)			
C11-1224	50074	C33-1224	50228	18"			
				24" (600mm)			
Protractor Heads – Cast Iron (Fits blades 12" and up) for Combination Squares, Combination Sets and Bevel Protractors							

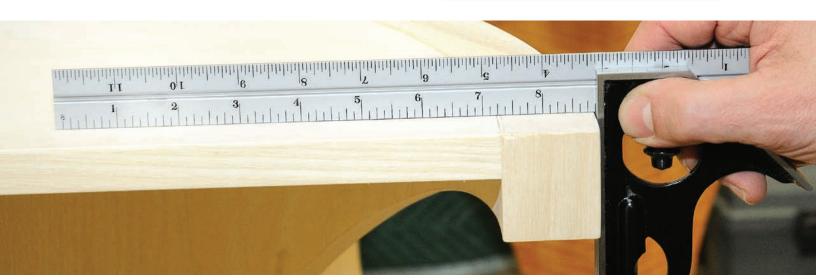




For prices of lock bolts, contact the Parts Department. 4" Center Head Max. Inspection Dia.: 3.125" 6" Center Head Max. Inspection Dia.: 4.3"

12"-24" Center Head Max. Inspection Dia.: 5.3"





289 ATTACHMENTS FOR COMBINATION SQUARES

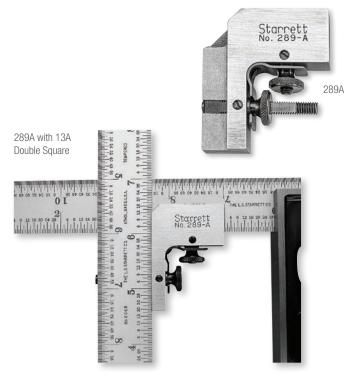
These attachments fit combination square blades 1" (25mm) wide and permit attaching rules, blades or thin steel try squares, up to 1" (25mm) wide, at right angles to the blade of the square for laying out key seats, centers, scribing horizontal lines, and measuring diameters. Available in two sizes listed below. Both sizes can also be used with 289C Height and Depth Gage Attachment.

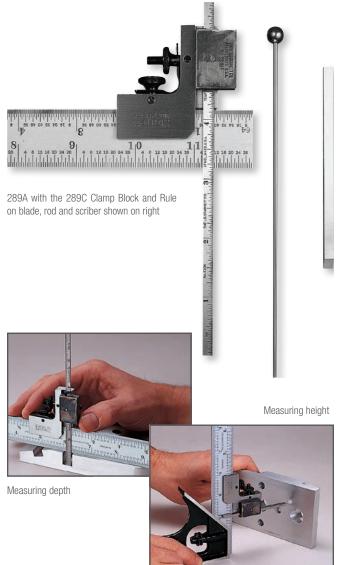
289 Attachments for Combination Squares							
		Range	Seat Length				
Cat. No.	EDP	Blade/Rule	Blade	Rule			
289A	51322	1" (25mm)	1-9/16" (40mm)	1-11/16" (43mm)			
289B	51323		2-3/8" (60mm)	2-3/8" (60mm)			

289C Height and Depth Gage Set for Combination Squares

When combined with the 289A or 289B Attachments, this set converts any combination square or set having blades up to 1" (25mm) wide into a height gage or depth gage. In addition to a clamp block, the set has a scriber, 6" rule (610N-6) and a 6" (150mm) rod, any one of which may be inserted in the clamp and locked in position. By applying the scriber, a practical height gage results. Use of the rule converts the tool to a depth gage for measuring in 64ths of an inch. With the rod used as a depth gage, small recesses and holes can also be checked.

289C Height and Depth Gage Set for Combination Squares					
Cat. No.	EDP	Description			
289C	51324	Clamp Block with Scriber, Rule and Rod			





Description

Description

24" Blade

With Square Head Only

With Square Head and Center Head

COMBINATION SQUARES

8 LARGE COMBINATION SOUARES

24"

Extra large, heavy-duty construction throughout. The square head is 8-3/8" long and the center head has 4-1/4" arms. Furnished with 24" blade, 1-1/2" wide x 1/10" thick, with distinctive, photo-engraved graduations. Heads are cast iron and have black wrinkle finish.

8 Large Combination Squares

EDP

50037

50038

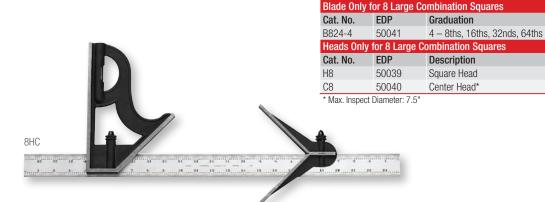
Graduation

4 - 8ths, 6ths, 32nds, 64ths

Cat. No.

8HC

- Reversible lock bolts
- Accurate spirit level
- Hardened steel blade



10 STUDENT COMBINATION SQUARES

These tools were designed to train and develop apprentices to lay out and check their work more efficiently. The combination square is far superior to clumsy, old-style solid workshop-grade squares that are still being used in some vocational schools and apprenticeship programs around the world. The student's advantages are:

- Rugged, cast iron square head will outlast cheap plastic and die-cast imitations
- Accurate, hardened and tempered square blade offered in inch, millimeter, and inch and millimeter combined
- Reversible lock bolt allows the blade to be turned over or end-for-end so that all four graduated edges may be used
- The combination square, as its name indicates, handles many jobs, saving the apprentice from buying more individual tools. This combination square can be used as a try square, 45° miter, a depth gage, a height gage, a layout tool, and as a rule.
- Optional center head is available to increase the versatility of this universal measuring tool

Inch						
Cat. No.	EDP	Size	Graduation			
10H-6-4R	64942	6"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths			
Millimeter						
Cat. No.	EDP	Size	Graduation			
10MH-150	64943	150mm	mm and 1/2mm Both Sides			
Inch and Mill	imeter					
Cat. No.	EDP	Size	Graduation			
10MEH-150	64944	5-3/4" (150mm)	1/2mm and 32nds One Side mm and 64ths Reverse Side			
Center Head	Center Head Only					
Cat. No.	EDP	Description				
C11-6	50073	Center Head to Fit 10 Squares				

^{*} Max. Inspect Diameter: 4.3"



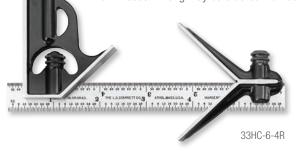


10H-6-4R

33J JUNIOR COMBINATION SQUARES

6"

These squares are used by mechanics, toolmakers and patternmakers because of their compact, small size and light weight. Both blade and heads are smaller than on regular squares. Heads are drop forged, hardened steel and have smooth, black enamel finish. Blades 4" long may be ordered individually as listed below. Blades are furnished in regular finish, except where indicated.





33J Junior Com	33J Junior Combination Squares								
Cat. No.	EDP	Blade Length	Graduation	Description					
33JH-6-4R	50229	6"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	With Square Head Only					
33JH-6-16R	50231	O	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	With Oquale Flead Offiy					
33JHC-6-4R	50230	6"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	With Square Head and Center Head					
33JHC-6-16R	50232	0	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	With Square flead and Genter flead					
Blades Only									
Cat. No.	EDP	Blade Length	Graduation	Description					
B33J-4R	50235	6"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Blade					
CB33J-4R*	67100	O	THE Othor, Redict Hodding Ozhido, Othio	Blade					
B33J-16R	50236	6"	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	Blade					
CB33J-16R*	67101	O	Torr — Quick reading 321ids, 04ths, Aircraft Quick reading 30ths, 100ths	Diade					
B4-4R	50076	4"	4R – 8ths, 16ths, Quick Reading 32nds, 64ths	Blade					
CB4-4R*	50077	7	, ,	Diade					
CB4-16R*	50078	4"	16R – Quick Reading 32nds, 64ths, Aircraft Quick Reading 50ths, 100ths	Blade					
Heads Only									
Cat. No.	EDP	Description							
H33-4	50223	Square Head							
C33-4	50226	Center Head**							

^{*} Blade in satin chrome finish.

439 BUILDERS' COMBINATION TOOL

18" AND 24"

This versatile tool is invaluable for carpenters, builders, patternmakers, cabinet makers and all mechanics.

FEATURES

- Combines seven tool functions in one compact, practical unit. It is a rule, square, level, plumb, protractor, bevel and pitch-to-foot indicator.
- It consists of a stock, 9" (230mm) long, a hardened, photo-engraved 1-1/2" (38mm) wide blade in 18" or 24" lengths, and a protractor
- On one side the protractor is graduated from zero to 90° in both directions show the direct and supplementary angles. The other side is graduated in 1/2" pitch increments from 0-12" per foot pitch.
- The stock has four levels which permits leveling or plumbing the work in relation to any to any angle or pitch
- Tool is ideal for laying out or cutting valleys or hips of different pitches, done as follows: Rotate the blade to the desired pitch, place the face of the stock against the work and draw a line. Then place the square end o fthe stock against the line and draw the complementary line. This gives the complementary angle automatically, without calculation.

			Head Graduat		ıation
Cat. No.	EDP	Blade Length	Blade Graduation	Degrees	Pitch
439-18 439-24		18" 24"	4R - 8ths, 16ths, 32nds, 64ths	0-90°	0-12" per ft.







^{**} Max. Inspect Diameter - 3.125"

MASTER PRECISION SQUARES

20 Master Precision Squares

1-1/2-36"/40-910MM

The finest precision-checking squares – not graduated. Squareness accuracy to .0001" (0.0025mm) every 6" (150mm).

These hardened steel squares are used when extreme accuracy is required. The beams and blades are hardened, ground and lapped to ensure parallelism and straightness. The beam is grooved at the inner corner for clearance of burr or dirt. Made of high quality tool steel, with the finest of craftsmanship throughout.



Larger squares can be furnished; quoted on application.

- * Length of blade from the inner edge of the beam to the end of the blade.
- ** 36" (910mm) and larger size squares have special screws to secure the blade to the beam.
- † Rack-type case.
- ‡ Includes redemption card for Standard Letter of Certification (SLC).

55 Master Precision Squares with Beveled Edges

1-1/2-6"/40-150MM

These 55 Hardened Steel Squares are the same as the 20 Squares described above, except that the blades are beveled on both edges of each side, which provides an excellent visual line contact with the work.

55 Master Precision Squares with Beveled Edges							
Squares Only		Case Only		Size - Length of Blade*		Length of Beam	
Cat. No.	EDP	Cat. No.	EDP	in	mm	in	mm
55-1 1/2	50277	916	55152	1-1/2	40	1-1/2	40
55-3	50279	951	55153	3	75	2-3/8	60
55-4 1/2	50281	918	55154	4-1/2	115	3-1/2	90
55-6	50283	919	55155	6	150	4-5/16	110

^{*} Length of blade from the inner edge of the beam to the end of the blade.



No.55

STARRETT

SQUARES

3020 Toolmakers' Grade Stainless Steel Squares



2-31/32 - 12-1/32"/50-175MM

3020-6

This high quality toolmakers' square is not graduated and offers squareness accuracy to .0002" (0.005mm) for every 6" (150mm).

They feature hardened, ground and lapped stainless steel construction on both the blade and the beam. The beam is machined at the inner corner for clearance of burr or dirt.

Packed one in a plastic case. 12" square and set of 4 squares shipped in box with fitted foam insert. Wood cases as listed may be purchased separately.

3020 Toolmakers' Grade Stainless Steel Squares								
Squares Only		Case Only	Case Only		Size - Length of Blade*		Length of Beam	
Cat. No.	EDP	Cat. No.	EDP	in	mm	in	mm	
3020-3	12225	951	55153	2-31/32	75	1-31/32	50	
3020-4	12226	918	55154	3-31/32	100	2-31/32	75	
3020-6	12227	919	55155	5-29/32	150	3-29/32	100	
3020-12	12228	20ZZ-12	55156	12-1/32	300	6-7/8	175	
3020 Sets								
Cat. No.	EDP	Description						
S3020Z	12229	Complete Set	of all 4 Squares					

^{*} Length of blade from the inner edge of the beam to the end of the blade.

61 "RELIABLE" TRY SQUARE

6"/150MM

A very useful try square – attractively designed, light and convenient. The blade is hardened, not graduated, and is firmly held by a special bolt and nut permitting the tool to be readily taken apart, if desired, for regrinding the blade and stock.

61 "Reliable" Try Square				
Cat. No.	EDP	Size – Length of Blade	Length of Beam	
61	50303	6" (150mm)	3-1/2" (90mm)	







DOUBLE SQUARES

13, 13M Double Squares with Hardened Blades

4-6"/100-150MM

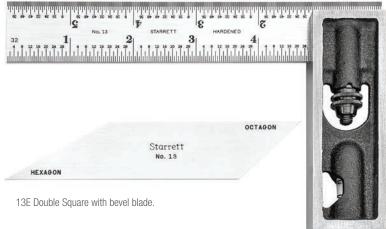
These squares are very popular with machinists, toolmakers, and patternmakers. The sliding blades are adjustable making it practical for a wide variety of uses. The faces of the head are ground square, and the 6" (150mm) size has a level.

The bevel blade is available, featuring an octagon angle 45° at one end and a hexagon angle 60° at the other end, clearly marked.

A drill grinding blade, also available for 6" (150mm) squares, is beveled to 59° for drill grinding on one end and 41° (the cutting angle of countersinks for machine screws) at the other. Both ends have quick-reading 64ths grads. and the graduation is located to measure perpendicularly to the axis of the drill. By reading the graduations, the center point can be easily and accurately located.

The 6" square head used with the drill grinding blade is approximately 3-1/2" (90mm) long, and the faces approximately 9/16" (14mm) wide.

Inch Reading	Inch Reading Double Squares – 4R Graduation – 8ths, 16ths, 32nds, 64ths				
Cat. No.	EDP	Size	Description		
13A	50109	4"	With graduated blade only		
13C	50111	6"	With graduated blade only		
13E	50112	0	With graduated and bevel blades		
13D	50114		Drill grinding blade only for 6" (150mm) squares		
Millimeter Re	Millimeter Reading Double Squares - mm Both Edges One Side; mm and 1/2mm Reverse Side				
Cat. No.	EDP	Size	Description		
13MA	56278	100mm	With graduated blade only		
13MB	56279	10011111	With graduated and bevel blades		
13MC	56280	150mm	With graduated blade only		
13ME	56263	TJUIIIII	With graduated and bevel blades		



DOUBLE SQUARES

14, 14M Double Steel Squares with Hardened and Ground Head and Blades

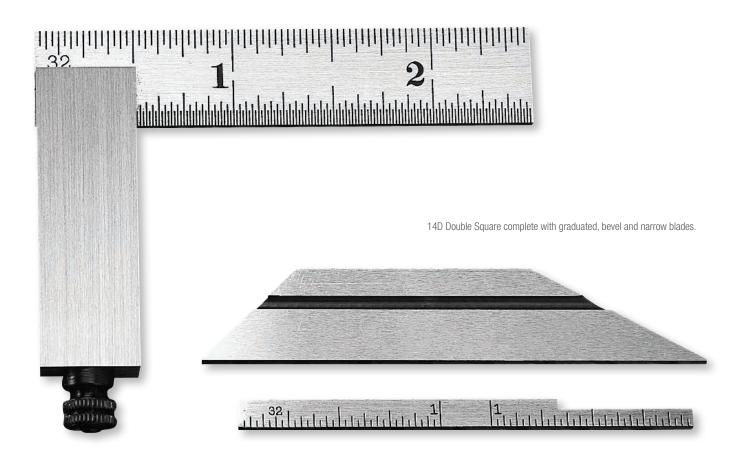
2-1/2"/50MM

Designed for tool and diemakers, these fine precision double steel squares have adjustable blades, ideal for tight fits. A knurled clamping nut accurately locks the blades in any position.

Beveled blade is 45° on one end and 30° on the other.

2-1/4" (58mm) Narrow blade has 32nds and 64ths graduations. It is 5/32" (4mm) wide over a length of approximately 1-5/8" (41mm) and cut away at one end to a width of 3/32" (2.4mm).

14 Inch Reading I	Double Steel Squares – 32	2nds, 64ths			
Cat. No.	EDP	Size	Graduation	Description	
14A	50117	2-1/2"	20nda 64tha	With Graduated Blade Only	
14D	50118	2-1/2	32nds, 64ths	Complete with Graduated Narrow Blade and Bevel Blade	
14M Millimeter R	14M Millimeter Reading Double Steel Squares- mm Both Edges One Side; mm and 1/2mm Reverse Side				
Cat. No.	EDP	Size	Graduation	Description	
14MA	56260	50mm	mm. 1/2mm	With Graduated Blade Only	
14MD	56261	UIIIIII	111111, 1/2111111	Complete with Graduated Narrow Blade and Bevel Blade	







DIEMAKERS' SQUARES

453, 453M DIEMAKERS' SQUARES WITH ANGULAR AND SLIDING BLADE ADJUSTMENT

2-1/2"/50MM

The sliding blades of this tool and diemakers' square can be adjusted at an angle (up to approximately 10°) with the beam for measuring the clearance in dies (see sectional view). The larger knurled thumb screw locks the blades at any position, and the smaller one tilts the blades at an angle. To set the blades at an angle, first release the blade clamp screw, then the blade may be tilted to the desired angle by turning the small knurled screw into the beam. The blade can be held in position by tightening the clamping screw. Head and blades are hardened and ground.

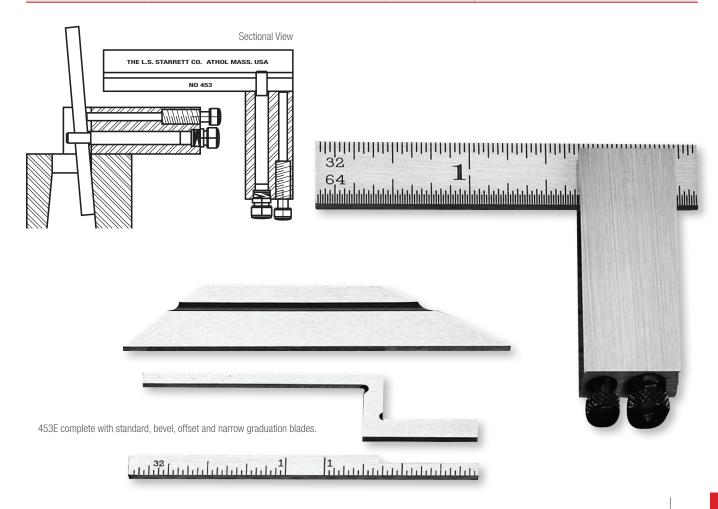
The inch reading blade is graduated on one side, upper edge in 32nds, lower edge in 64ths and the millimeter reading blade is graduated in millimeters and 1/2 millimeters.

The bevel blade is approximately 2-1/2" (63mm) long x 1/2" (12.5mm) wide and is beveled to 30° on one end and 45° on the other.

The narrow graduated blade has 32nds graduation on one side, and 64ths on the other. It is 5/32" (4mm) wide over a length of approximately 1-5/8" (41mm) and cut away at one end to a width of 3/32" (2.4mm).

The offset blade is used where it would be impossible to sight a straight blade. It protrudes from the square about 1-1/2" (38mm) and is 1/8" (3mm) wide. Both sides of each edge are beveled to provide good visual line contact.

453 Inch Reading	Diemakers' Squares – Gradua	tion 32nds, 64ths	
Cat. No.	EDP	Size	Description
453A	52345		With Standard Graduated Blade
453C	52347	0.1/01	With Standard, Narrow Blades
453E	52349	2-1/2"	Complete With Standard, Bevel, Narrow and Offset Blades
453EZ	52351		Complete With Standard, Bevel, Narrow and Offset Blades in Case
453M Millimeter F	Reading Diemakers' Squares –	Graduation mm and 1/2mm	
Cat. No.	EDP	Size	Description
453MA	52346	EOmm	With Standard Graduated Blade
453MC	52348	50mm	With Metric Standard, Narrow Blades





DIEMAKERS' SQUARES

457 IMPROVED DIEMAKERS' SQUARE WITH ANGULAR ADJUSTMENT

10°-0°-10°

The 457 Improved Diemakers' Square is a highly useful tool for tool and diemakers, especially for measuring die clearances. It is also very handy for patternmakers to check angles and drafts on patterns.

The beam of this square is graduated to show the setting in degrees of the blades. Blades can be set for any angle up to 10°, either side of 0° and the angle is indicated by the line on the pointer.

The graduated blade has 32nds of an inch on one side, and 64ths on the other. It is 5/32" (4mm) wide over a length of approximately 1-5/8" (41mm) and cut away at one end to a width of 3/32" (2.4mm).

The offset blade, which is used where it would be impossible to insert the straight blade, protrudes from the square about 1-1/2" (38mm). It is 1/8" (3mm) wide and both sides of each edge are beveled to give visual line contact.

The beam is beveled adjacent to the blade so that the blade is readily visible when checking in holes, slots, etc. Blades and beams are hardened and ground.

Angular Range 10°-0°-10°				
Cat. No.	EDP	Description		
457A	52428	With Straight Blade Only		
457C	52429	Complete, with Straight and Offset Blades		

