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AIR CHUCKS AND ACCESSORIES

SHIPPING WEIGHT 1 LBS TO 5 LBS		SLEEVES ITEM #1			NOSE CAPS ITEM #6		
AIR CHUCK NUMBER #	COLLET TYPE	NEW SLEEVE NUMBER	OLD SLEEVE NUMBER	PRICE	NEW NOSECAP NUMBER	OLD NOSECAP NUMBER	PRICE
000	00	RCS000	NSS - 00	$ 93.00	RNC000	NSNC - 00	$ 58.00
03C	3C	RCS03C	NONE	$103.00	RNC03C	NONE	$ 68.00
03AT	3AT	RCS03AT	NONE	$103.00	RNC03AT	NONE	$ 68.00
0 - 5C	5C	RCSNC5C	NSS - 5C	$143.00	RNC05C	NSNC - 5C	$ 92.00
0 - 11	11	RCSNC11	NSS - 11	$108.00	RNC011C	NSNC - 11 - C	$ 72.00
0 - 11C	11C	RCSN11C	NSS - 11C	$127.00	RNC011C	NSNC - 11 - C	$ 72.00
0 - 21	21	RCS021	NSS - 21	$145.00	RNC021	NSNC - 21 - 0	$ 83.00
2S16C	16C	RCS216C	NSS - 16C	$178.00	RNC216C	NSNC - 16C	$147.00
2S22	22	RCS2S22	NSS - 22	$178.00	RNC2S22	NSNC - 22	$104.00
2S22C	22C	RCS222C	NSS - 22C	$205.00	RNC222C	NSNC - 22C	$147.00
2S22D	22D	RCS22DS	NSS - 22D	$178.00	RNC222D	NSNC - 22D	$147.00
2S22DS	22DS	RCS22DS	NSS - 22DS	$178.00	RNC22DS	NSNC - 22DS	$128.00
2SRC5	RC5	RCS2RC5	NSS - RC5	$205.00	RNC2RC5	NSNC - RC5	$128.00
10 - 00	00	RCS1000	NSS - 10 - 00	$105.00	RNC000	NSNC - 00	$ 58.00
10 - 10	10	RCS1010	NSS - 10	$105.00	RNC1010	NSNC - 10	$ 58.00
NC00	00	RCSN00	NONE	$127.00	RNCN00	NONE	$ 78.00
NC03C	3C	RCSN3C	NONE	$143.00	RNCN3C	NONE	$ 93.00
NC03AT	3AT	RCSN3AT	NONE	$143.00	RNCN3AT	NONE	$ 93.00
NC05C	5C	RCSNC5C	NSS - 5C	$143.00	RNCNC5C	NCNC - 5C	$ 93.00
NC10	10	RCSNC10	NSS - 10 - NC	$127.00	RNCNC10	NCNC - 10	$ 78.00
NC11	11	RCSNC11	NSS - 11	$108.00	RNCNC11	NCNC - 11	$ 68.00
NC11C	11C	RCSN11C	NSS - 11C	$127.00	RNCNC11	NCNC - 11	$ 68.00
NC21	21	RCSN21X	NSS - 21X	$170.00	RNCN21X	NCNC - 21	$ 78.00

REDMER AIR CHUCKS PARTS

NEW PART #	PRICE	NEW PART #	PRICE	NEW PART #	PRICE	NEW PART #	PRICE
R04AC00	$ 53.00	R08SRNC	$ 3.20	R13CW20	$ 16.80	R17FP10	$ 2.10
R04AC2S	$ 70.00	R09SR00	$ 5.90	R13CW2S	$ 14.00	R17FP2S	$ 2.10
R04ACNL	$ 65.00	R09SR10	$ 5.90	R13CW30	$ 8.60	R17FP30	$ 2.10
R04ACNU	$ 60.00	R09SR2S	$ 5.90	R13CWNC	$ 9.80	R17FPNC	$ 2.10
R04ATNC	$ 2.25	R09SR30	$ 7.20	R14PS0R	$ 3.00	RN18HN30	$ 1.50
R05AF00	$ 41.00	R09SRNC	$ 5.90	R14PS2A	$ 3.00	R18HNNC	$ 1.50
R05AF10	$ 40.00	R10SN2S	$ 3.00	R14PS2S	$ 2.50	R20SW00	$ 14.00
R05AF2S	$ 71.00	R10SNNC	$ 2.10	R14PSNL	$ 2.50	R20SW2S	$ 16.50
R05AF30	$ 33.00	R11SW10	$ 3.70	R14PSNU	$ 2.50	R20SW30	$ 14.30
R05AFNC	$ 43.00	R11SW2S	$ 23.00	R15ONRC	$ 1.50	R20SWNC	$ 14.00
R07EF10	$ 8.40	R11SW30	$ 4.70	R15PR00	$ 4.20	R21AS00	$ 1.10
R07EF2S	$ 9.10	R12SW2S	$ 3.00	R15PR10	$ 4.20	R21ASNC	$ 1.10
R07EF30	$ 8.50	R12SW30	$ 3.00	R15PR2S	$ 4.40	R26TW2S	$ 14.70
R07EFNC	$ 8.90	R12SWNC	$ 3.00	R15PR30	$ 4.20	R26TW30	$ 13.50
R08SR10	$ 3.20	R13CW00	$ 9.90	R15PRNL	$ 4.30	R26TWNC	$ 13.00
R08SR2S	$ 5.50	R13CW0R	$ 11.90	R15PRNU	$ 5.30	R27LN00	$ 2.20
R08SR30	$ 3.20	R13CW10	$ 8.60	R17FP00	$ 2.10	R27LNNC	$ 2.20

REDMER FOOT VALVE PARTS

NEW PART NUMBER	DESCRIPTION	PRICE	NEW PART NUMBER	DESCRIPTION	PRICE
RVP0290	AIR VALVE ASSEMBLY	$ 40.00	RVP0340	VALVE GROMET HOLDER	$ 2.30
RVP0300	AIR VALVE REPAIR KIT	$ 10.30	RVP0350	VALVE RUBBER WASHER	$ 1.80
RVP0310	VALVE SCREW PLUG	$ 2.30	RVP0360	VALVE SPACER	$ 2.30
RVP0320	VALVE GASKET	$ 1.00	RVP0370	VALVE SPRING LARGE	$ 2.50
RVP0330	VALVE SPRING SMALL (OLD)	$ 2.00	RVP0380	VALVE PLUNGER	$ 2.30
RVP0331	VALVE SPRING SMALL (NEW)	$ 2.00			

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AIR CHUCKS AND ACCESSORIES

Redmer AIR CHUCK
HEAVY DUTY PNEUMATIC WORK HOLDING DEVICES

U.S.A. and Canada EFFECTIVE 1/17/94

PRICE LIST

All prices are is U.S.A. dollars *F.O.B. St. Petersburg, Florida*
Prices are subject to change without notice.

COLLET AIR CHUCKS INCLUDE SLEEVE (AS INDICATED), AND THE ADJUSTABLE STOP ASSEMBLY

000 AIR CHUCK



HOLDS SEVERAL SIZES OF BROWN & SHARP COLLETS FOR PARTS UP TO ½" (ROUND)

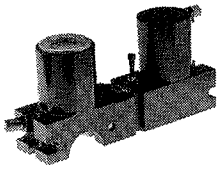
NEW NUMBER	OLD NUMBER	COLLET
000	000	# 00
03C	NONE	# 3C
03AT	NONE	# 3AT

5 YEAR GUARANTEE

$ 295.00

- LENGTH = 5 ¼"
- WIDTH = 3 ¾"
- HEIGHT = 2 7/8"
- WEIGHT = 5 Lbs.

NC AIR CHUCK



HOLDS SEVERAL SIZES OF BROWN & SHARP COLLETS FOR PARTS UP TO 1 - 1/8"

NEW NUMBER	OLD NUMBER	COLLET
NC00	NONE	00
NC03C	NONE	3C
NC03AT	NONE	3AT
NC05C	NC - 5C	# 5C
NC10	NC - 10	# 10
NC11	NC - 11	# 11
NC11C	NC - 11C	# 11C
NC21	NC - 21	# 21
NCG02	ground sides on above add	

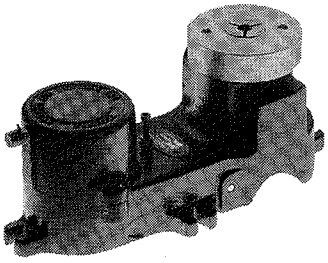
5 YEAR GUARANTEE

$ 575.00

- LENGTH = 10½"
- WIDTH = 2½"
- HEIGHT = 5"
- WEIGHT = 16 Lbs.

$ 135.00

2S AIR CHUCK



HOLDS SEVERAL SIZES OF BROWN & SHARP COLLETS FOR PARTS UP TO 2"

NEW NUMBER	OLD NUMBER	COLLET
2S16C	2S - 16C	# 16C
2S22	2S - 22	# 22
2S22C	2S - 22C	# 22C
2S22D	2S - 22D	# 22D
2S22DS	2S - 22DS	# 22DS
2SRC5	2S - RC5	# RC5

5 YEAR GUARANTEE

$1095.00

- LENGTH = 14½"
- WIDTH = 6"
- HEIGHT = 6¼"
- WEIGHT = 40 Lbs.

CONTROLS

FCV28	**FOOT CONTROL - SINGLE ACTION 3-WAY VALVE** LENGTH (WITH VALVE) = 8½" • WIDTH = 4" • HEIGHT = 2" • WEIGHT = 4 LBS	*$ 60.00*
AHS02	**AIR HOSE SET - TWO HOSES WITH COUPLINGS** LENGTH 4½" • SHIPPING WEIGHT = 1 LB	*$ 25.00*

COLLETS

22DS	7/32" TO 1 - 25/32" ROUND	*$ 132.00*
RC5	3/16 TO 2" ROUND	*$ 205.00*
RC5 MASTER	ROUND	*$ 335.00*
RC5 PADS	UP TO 5" ROUND	*QUOTE*

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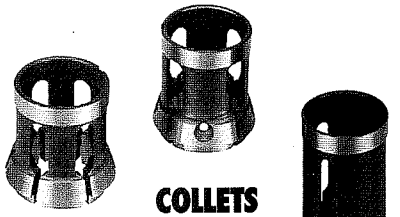
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AIR CHUCKS AND ACCESSORIES

Redmer AIR CHUCK

HEAVY DUTY PNEUMATIC WORK HOLDING DEVICES

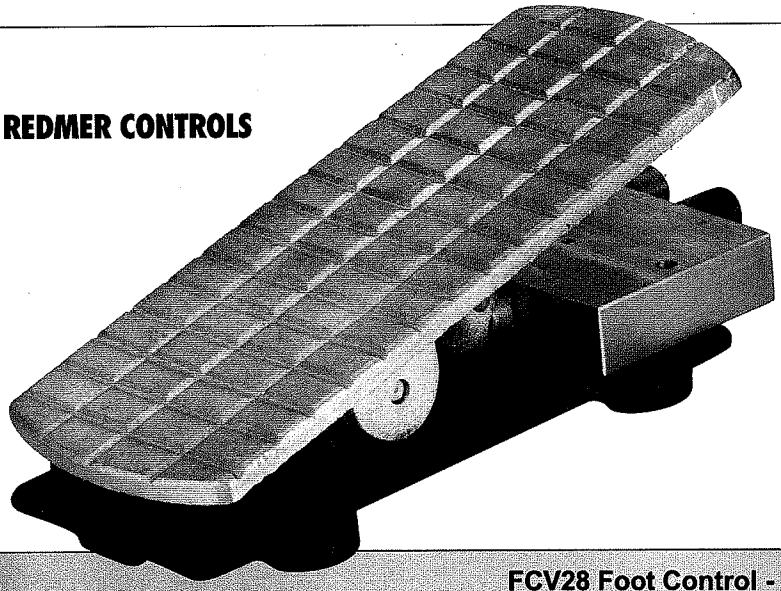
PERFORMANCE GUARANTEED



COLLETS

Collets:
- 22DS: 7/32" to 1-25/32"
- RC-5: 3/16" to 2"
- RC-5 Master & Pad System: holds working stock up to 5 inches round. Cut & ground to your specifications.

REDMER CONTROLS



FCV28 Foot Control -

The Redmer Foot Control uses a single acting 3-way valve that provides for low operator fatigue due to its roller action design. This roller also eliminates plunger wear. Simple construction makes for easy replacement of very inexpensive parts.

The **RVP0290** valve is available as a separate unit and can be mounted in conjunction with a cam for automatic operation.

Guaranteed against defects in material and workmanship for 1 year.

#000 - AIR CHUCK



#000 Air Chuck:
Holds #00, 3C, 3AT, Brown & Sharp collets for small parts up to 1/2" round. Small, compact foot print.

5 YEAR GUARANTEE



AHS02 Air Hose Set -
A pair of 4.5 foot long hoses provide for connection of the foot valve to the Redmer Air Chuck. Shorter and longer lengths are available.
Guaranteed against defects in material and workmanship for 1 year.

AIR HOSE SET

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AIR CHUCKS & ACCESSORIES

HEAVY DUTY PNEUMATIC WORK HOLDING DEVICES

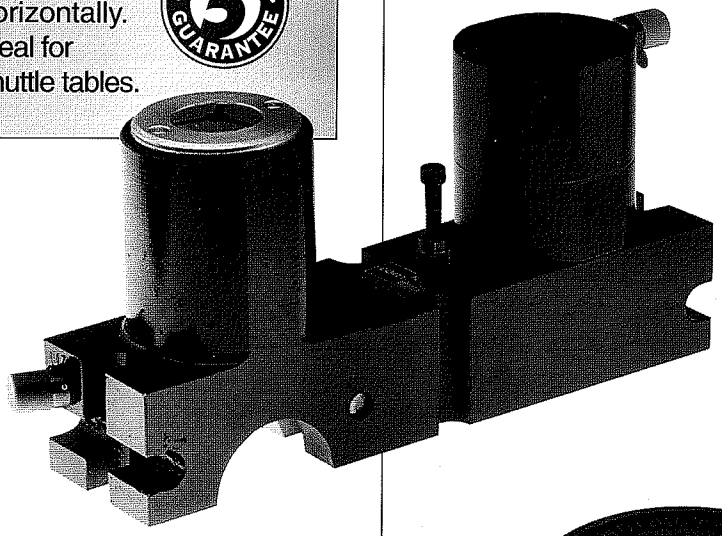
Heavy Duty Redmer Air Chucks provide exceptional holding power and long life as supported by our 5 year Guarantee. Redmer Air Chucks can be mounted either horizontal or vertical.

NC - Air Chuck:
Adapts to 00, 3C, 3AT, 5C, 10, 11, 11C & 21 collets for powerful holding of parts to 1 1/8". Parallel sides for stacking on its side or side-by-side mounting. Can be mounted vertically or horizontally. Ideal for shuttle tables.

5 YEAR GUARANTEE

Redmer Collet Air Chucks are indispensable where a holding fixture is required for round, square or hexagon work. This one fixture will eliminate the need for numerous jigs and fixtures that are only adaptable to one particular job. It only requires the changing of the collet, and the adjusting of the stop rod to change to another operation. These simple changes can be accomplished in just a few minutes.

NC-AIR CHUCK



The **Redmer Air Chuck** gives superb accuracy as to depths and center of the part as the stationary collet does not move. This system eliminates the possibility of variations as the part is always in the same location regardless of slight changes in size.

Equipped with hollow vertical and horizontal stop rods the **Redmer Air Chuck** can air eject the part or provide additional coolant to clear away chips.

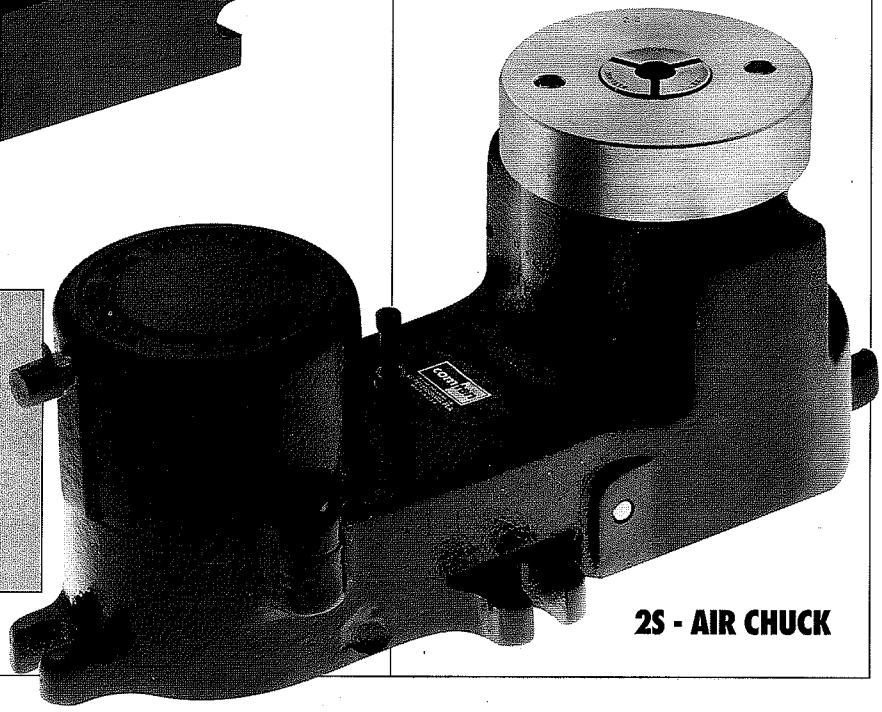
Three models of **Redmer Air Chucks** can handle a wide range of material sizes up to 5 inches. Various models provide for using Brown & Sharp collet numbers 00,3C, 3AT, 5C, 10, 11, 11C, 16, 21, 22, 22C and 22D as well as Redmer collets RC5 and 22DS.

Redmer Collet Air Chucks are guaranteed against defects in material and workmanship for a period of 5 Years when operated at 100 lbs. or less air pressure.

2S - Air Chuck:
Adapts to 16C, 22, 22C, 22D, 22DS, RC-5 collets. A real heavy-duty workhorse for stock to 2 1/16" dia. and to 5" dia. and with RC-5 Master & Pad System.

5 YEAR GUARANTEE

PERFORMANCE GUARANTEED



2S - AIR CHUCK

(RED0394 LIT)

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F A S T E N E R T E S T E R S

COMTEN

COMPRESSION AND TENSILE TESTING MACHINES

NAFTA

Effective 1/1/96

PRICE SHEET

All prices are in USA dollars. F.O.B. St. Petersburg, FL.
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HAND OPERATED TEST STANDS

IMPORTANT: When selecting capacity, your test stand should be running in the middle 50% of the gauge scale. For example: A 1000 lb tester should be used to perform tests between 250 and 750 lbs.

PART NUMBER	CAPACITY/LBS	CAPACITY/KG	SHIPPING WEIGHT	PRICE
301W1M	100	45	13 Lbs. (5.9 kg)	$ 545.00
301W2M	200	90	"	$ 545.00
301W3M	300	120	"	$ 545.00
301W4M	400	180	"	$ 545.00
301W6M	600	280	"	$ 545.00
301W1K	1000	450	"	$ 545.00
302W2K	2000	900	"	$ 545.00
304W4K	4000	1800	17 Lbs. (7.7 kg)	$ 845.00
MFOXXXX	METRIC FACE ON ANY OF THE ABOVE			NO CHARGE
FGCXXXX	EXTRA LOAD CELL AND GAUGE WITH CERTIFICATION			$ 275.00

Above includes carrying case and calibration certificate traceable to NIST

MOTORIZED TEST STANDS

PART NUMBER	DESCRIPTION	CAPACITY/LBS (KG)	PRICE
385 MVD 0200 381 KVD 0200 382 KVD 0200	Motorized Digital Fastener Tester - (Availble June 1996) Includes carry strap, battery pack and 110 volt charger	500 (225) 1000 (450) 2000 (900)	$1995.00
38 MEM	Upgrading of above testers purchased prior to release of memory feature		$ 500.00
385 MVC 0200 381 KVC 0200 382 KVC 0200	Motorized Digital Fastener Tester - (Available Fall 1996) With site, test location, and force memory and RS 232 port Includes carry strap, battery pack and 110 volt charger	500 (225) 1000 (450) 2000 (900)	$2495.00
BCU 220	220V Battery Charging Unit		$ 45.00
BPP 110	Portable battery pack		$ 195.00
CLS 0010	Calibration option to 0.10% of Full Scale		$ 100.00

Shipping weight is 21 lb (9.5 kg) for the Fastener Tester and 13 lb (5.8 kg) for the battery pack.

Testers include calibration certificate traceable to NIST

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STANDARD GRIPS

PART NUMBER	SIZE AND DESCRIPTION	CAP./LBS (KG)	SHPG WT/LBS (KG)	PRICE
LFS0250	Shank: 1/4" (6.0 mm) Head: 5/8" (15.8 mm)	2000 (900)	1 (.45)	$ 45.00
LFH3500	Shank: 7/8" (22.2 mm) Head: 3.5" (88.9 mm)	1000 (450)	2 (.90)	$ 125.00
LFN0468	For NTB Fasteners Shank: 15/32" (11.9 mm) Head: 2.0" (50.8 mm)	2000 (900)	1 (.45)	$ 60.00
LFR0437	For Rawl Fasteners Shank: 7/16" (11.1 mm) Head: 1.0" (25.4 mm)	2000 (900)	1 (.45)	$ 55.00
WCS0525	Wedge Clamp Self Closing - Stud to 1/4" (6.4 mm) dia.	4000 (1800)	3 (1.4)	$ 385.00
LFS0312	For gripping LFH, LFL, and LFF under lifter foot stud for quick and easy placement Shank: 5/16" (8.0 mm) Head: 5/8" (15.8 mm)	2000 (900)	1 (.45)	$ 45.00

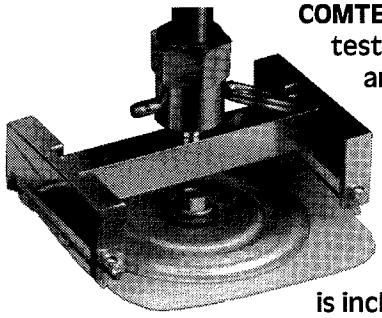
LIGHTWEIGHT GRIPS

PART NUMBER	HEAD SIZE	STOCK SHANK SIZE*	CAPACITY	PRICE
LFF3500	1.25"-3.50"	0.625"	300 Lb.	$ 95.00
CLFF35002 (Replacement Fabric)	1.25"-3.50"	0.625"	300 Lb.	$ 9.50
LFL1500	0.75"-1.50"	0.875"	300 Lb.	$ 75.00
LFL2250	1.25"-2.25"	0.875"	300 Lb.	$ 75.00
LFL3000	2.00"-3.00"	0.875"	300 Lb.	$ 75.00
LFL3500	2.75"-3.50"	0.875"	300 Lb.	$ 75.00

* Other shank sizes available starting at 0.25" - Shipping weight is 1 lb (0.45 kg)

SPECIAL GRIPS

PART NUMBER	SIZE AND DESCRIPTION	CAP./LBS (KG)	SHPG WT/LBS (KG)	PRICE
LFN2XXX	Shank: Specify 0.XXX Head: 2.0" (50.8 mm)	2000 (900)	1 (.45)	$ 85.00
LFR2XXX	Shank: Specify 0.XXX Head: 1.0" (25.4 mm)	2000 (900)	1 (.45)	$ 80.00
LFS2XXX	Shank: Specify 0.XXX Head: 5/8" (15.8 mm)	2000 (900)	1 (.45)	$ 70.00
LFS4XXX	Shank: Specify 0.XXX Head: 1" (25.4 mm)	4000 (1800)	2 (.90)	$ 165.00



COMTEN INDUSTRIES new flexible lifter foot is specially designed for rooftop fastener testing. Designed to accommodate lightweight fasteners up to 3.5" in head diameter and 5/8" shank diameter. Units consists of a steel support bracket that connects to COMTEN roofing fastener test equipment and reinforced, replaceable, flexible fabric feet. The fabric foot is made of durable composite plastic material rated for pulling up to 300 pounds. This value engineered product is easy to use and conforms to the new revised roofing codes sweeping the nation. Flexible Lifter Foot Fastener Test Fixture (LFF3500) comes complete with support bar, fabric lifter foot mounting attachments, and one flexible fabric lifter foot. A set of pins is included and unit is easily mounted on COMTEN roofing fastener testing equipment.

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MOTORIZED DIGITAL FASTENER TESTER

COMTEN

— COMPRESSION AND TENSILE TESTING MACHINES

NAFTA

Effective 1/1/96

PRICE SHEET

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MOTORIZED TEST STANDS

PART NUMBER	DESCRIPTION	CAPACITY/LBS (KG)	PRICE
385 MVD 0200	Motorized Digital Fastener Tester - (Availble June 1996)	500 (225)	$1995.00
381 KVD 0200	Includes carry strap, battery pack	1000 (450)	
382 KVD 0200	and 110 volt charger	2000 (900)	
38 MEM	Upgrading of above testers purchased prior to release of memory feature		$ 500.00
385 MVC 0200	Motorized Digital Fastener Tester - (Available Fall 1996)	500 (225)	$2495.00
381 KVC 0200	With site, test location, and force memory and RS 232 port	1000 (450)	
382 KVC 0200	Includes carry strap, battery pack and 110 volt charger	2000 (900)	
	Shipping weight is 21 lb (9.5 kg) for the Fastener Tester and 13 lb (5.8 kg) for the battery pack		
	Testers include calibreation certificate traceable to NIST		
BCU 220	220V Battery Charging Unit		$ 45.00
BPP 110	Portable battery pack		$ 195.00
CLS 0010	Calibration option to 0.10% of Full Scale		$ 100.00

STANDARD GRIPS

PART NUMBER	SIZE AND DESCRIPTION		CAP./LBS (KG)	SHPG WT/LBS (KG)	PRICE
LFS0250	Shank: 1/4" (6.0 mm)	Head: 5/8" (15.8 mm)	2000 (900)	1 (.45)	$ 45.00
LFH3500	Shank: 7/8" (22.2 mm)	Head: 3.5" (88.9 mm)	1000 (450)	2 (.90)	$ 125.00
LFN0468	For NTB Fasteners		2000 (900)	1 (.45)	$ 60.00
	Shank: 15/32" (11.9 mm)	Head: 2.0" (50.8 mm)			
LFR0437	For Rawl Fasteners		2000 (900)	1 (.45)	$ 55.00
	Shank: 7/16" (11.1 mm)	Head: 1.0" (25.4 mm)			
WCS0525	Wedge Clamp Self Closing - Stud to 1/4" (6.4 mm) dia.		4000 (1800)	3 (1.4)	$ 385.00

LIGHTWEIGHT GRIPS

PART NUMBER	HEAD SIZE	STOCK SHANK SIZE*	CAPACITY	PRICE
LFF3500	1.25"-3.50"	0.625"	300 Lb.	$ 95.00
CLFF35002 (Replacement Fabric)	1.25"-3.50"	0.625"	300 Lb.	$ 9.50
LFL1500	0.75"-1.50"	0.875"	300 Lb.	$ 75.00
LFL2250	1.25"-2.25"	0.875"	300 Lb.	$ 75.00
LFL3000	2.00"-3.00"	0.875"	300 Lb.	$ 75.00
LFL3500	2.75"-3.50"	0.875"	300 Lb.	$ 75.00

* Other shank sizes available starting at 0.25" - Shipping weight is 1 lb (0.45 kg)

SPECIAL GRIPS

PART NUMBER	SIZE AND DESCRIPTION		CAP./LBS (KG)	SHPG WT/LBS (KG)	PRICE
LFN2XXX	Shank: Specify 0.XXX	Head: 2.0" (50.8 mm)	2000 (900)	1 (.45)	$ 85.00
LFR2XXX	Shank: Specify 0.XXX	Head: 1.0" (25.4 mm)	2000 (900)	1 (.45)	$ 80.00
LFS2XXX	Shank: Specify 0.XXX	Head: 5/8" (15.8 mm)	2000 (900)	1 (.45)	$ 70.00
LFS4XXX	Shank: Specify 0.XXX	Head: 1" (25.4 mm)	4000 (1800)	2 (.90)	$ 165.00

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MOTORIZED DIGITAL FASTENER TESTER

COMTEN *COMPRESSION AND TENSILE TESTING MACHINES*

NEW! FOR 1996

BATTERY OPERATED MOTORIZED DIGITAL FASTENER TESTERS

Features:

- *Pulling capacity up to 2000 pounds*
- *High quality and easy to read 0.33" LCD digital force readout system*
- *Calibrated & certified traceable to NIST standards and accurate to 0.5% of Full Scale*
- *Selectable speed settings of .5, 1, or 2 inches per minute*
- *Reliable S-Block load cell with overforce protection*
- *Provides peak hold and continuous display features*
- *Zero tare to 20% of Full Scale*
- *Force readout in pounds, kilograms, or newtons*
- *Rechargable battery provides over 100 pulls on one charge*
- *Includes 110 volt charging unit, 220 volt available at additional cost*
- *Durable metal housing with convenient carry strap*
- *Accommodates lightweight fasteners up to 3.5" diameter as well as the wide range of traditional fasteners used in the roofing industry*
- *Optional feature includes site, test location and force memory for repetitive testing and ability to download test results to personal computer or print directly to printer*
- *Optional calibration to 0.1% of Full Scale at additional cost*



COMTEN INDUSTRIES, manufacturers of quality products since 1960, introduces the revolutionary **MOTORIZED DIGITAL FASTENER TESTER.** These battery operated 3-speed motorized tensile testers are used to prove the holding capacity of hundreds of types & sizes of fasteners in roofing, construction, commercial, industrial, and other applications. Specifically engineered for pullout strength tests and nondestructive testing of welded, staked, threaded, epoxied and power-driven fasteners. This battery powered unit comes complete with an S-Block Load Cell, with a pulling capacity of 2000 lbs at 0.5, 1, and 2 in/min, and an easy to use electronic control panel. With optional site, test location and force memory feature and RS232 port, field testing will be simplified by downloading results in car or office. It is an excellent tool for production sampling, quality control, and on site testing during installation. Verifying results during research and development of new fastening techniques now can be easily done in the laboratory or field.

Certificate of Calibration

Each unit is tested, calibrated and certified accurate at time of shipment to plus or minus 0.5% of full scale. Certificate of Calibration and Traceability to the United States National Institute of Standards & Technology.

1 Year Guarantee

COMTEN will repair or replace any part which fails and is returned to the factory within 1 year of purchase. Calibration, overdriving and accidental damage or abuse are not covered.

1 YEAR GUARANTEE

COMTEN INDUSTRIES

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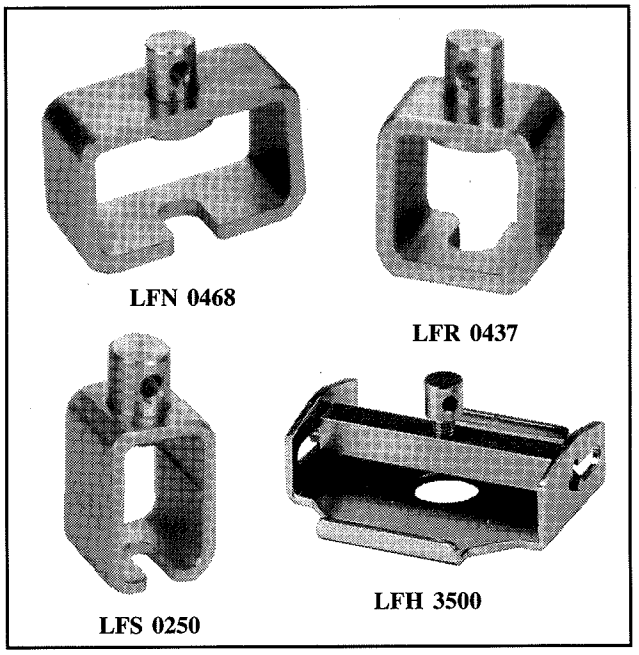
FASTENER TESTER FEET AND GRIPS

COMTEN
COMPRESSION AND TENSILE TESTING MACHINES

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STANDARD GRIPS

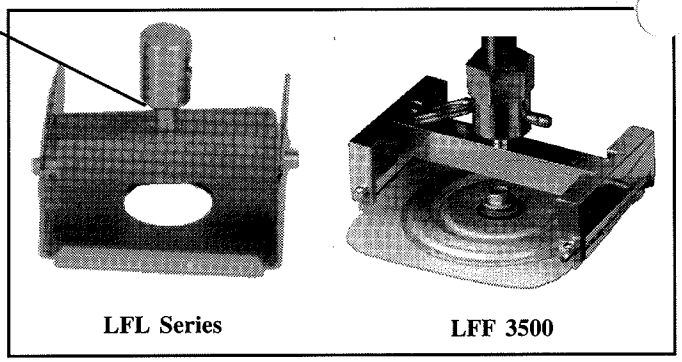
PART NUMBER	SIZE AND DESCRIPTION	CAP./LBS (KG)
LFS 0250	Shank: 1/4" (6.0 mm) Head: 5/8" (15.8 mm)	2000 (900)
LFH 3500	Shank: 7/8" (22.2 mm) Head: 3.5" (88.9 mm)	1000 (450)
LFN 0468	For NTB Fasteners Shank: 15/32" (11.9 mm) Head: 2.0" (50.8 mm)	2000 (900)
LFR 0437	For Rawl Fasteners Shank: 7/16" (11.1 mm) Head: 1.0" (25.4 mm)	2000 (900)
WCS 0525	Wedge Clamp Self Closing Stud to 1/4" (6.4 mm) dia.	4000 (1800)
LFS 0312	Shank: 5/16" (8.0 mm) Head: 5/8" (15.8 mm) Used for gripping LFH, LFL, and LFF under lifter foot stud for quick and easy placement	2000 (900)



LIGHTWEIGHT GRIPS

PART NUMBER	HEAD SIZE	SHANK SIZE*	CAP./LBS (KG)
LFF 3500**	1.25"-3.50"	0.625"	300 (135)
LFL 1500	0.75"-1.50"	0.875"	300 (135)
LFL 2250	1.25"-2.25"	0.875"	300 (135)
LFL 3000	2.00"-3.00"	0.875"	300 (135)
LFL 3500	2.75"-3.50"	0.875"	300 (135)

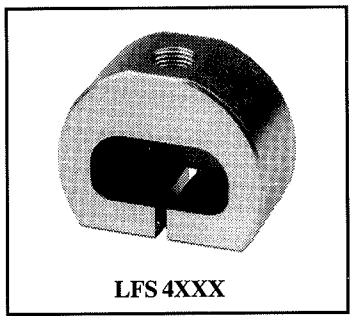
* Other shank sizes available starting at 0.25"
** Replacement fabric part number CLFF35002



SPECIAL GRIPS

These custom fixtures can be slotted or drilled to your specifications to accommodate a number of different size fasteners up to 4000 pounds. Ideal for testing odd size NTB and Rawl fasteners.

PART NUMBER	SIZE AND DESCRIPTION		CAP./LBS (KG)
LFH 1XXX	Shank: Specify 0.XXX	Head: 3.5" (88.9 mm)	1000 (450)
LFN 2XXX	Shank: Specify 0.XXX	Head: 2.0" (50.8 mm)	2000 (900)
LFR 2XXX	Shank: Specify 0.XXX	Head: 1.0" (25.4 mm)	2000 (900)
LFS 2XXX	Shank: Specify 0.XXX	Head: 5/8" (15.8 mm)	2000 (900)
LFS 4XXX	Shank: Specify 0.XXX	Head: 1.0" (25.4 mm)	4000 (1800)



Service and calibration is available on COMTEN equipment and will be completed in 2 working days if shipped both directions via overnight service. Non express service is 5 working days.

We Welcome The Opportunity To Quote Your Custom Needs

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WIDE BASE FASTENER TESTER

COMTEN

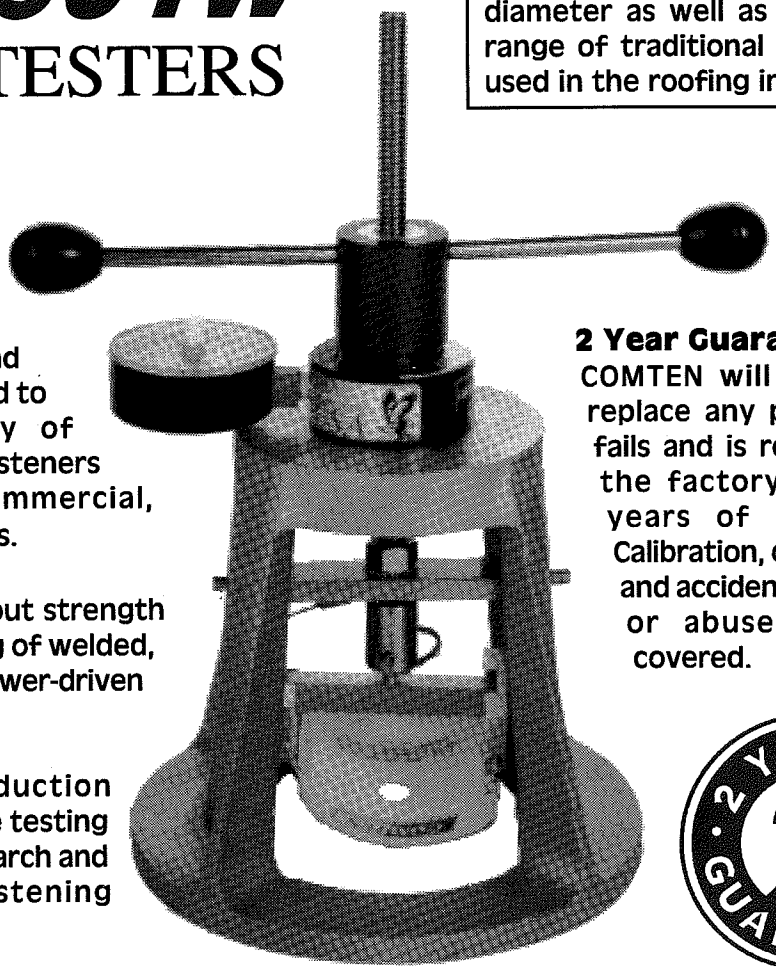
COMPRESSION AND TENSILE TESTING MACHINES

NEW!

SERIES 301W
FASTENER TESTERS

Designed to accommodate lightweight fasteners up to 3.5" diameter as well as the wide range of traditional fasteners used in the roofing industry.

COMTEN INDUSTRIES, manufacturers of quality physical testing products since 1960, presents the wide base **SERIES 301W ROOF FASTENER TESTERS.** These Hand Operated tensile testers are used to prove the holding capacity of hundreds of types & sizes of fasteners in roofing, construction, commercial, industrial, and other applications.



Specifically engineered for pullout strength tests and nondestructive testing of welded, staked, threaded, epoxied and power-driven fasteners.

An excellent tool for production sampling, quality control, on site testing and verifying results during research and development of new fastening techniques.

2 Year Guarantee

COMTEN will repair or replace any part which fails and is returned to the factory within 2 years of purchase. Calibration, overdriving and accidental damage or abuse are not covered.

2 YEAR GUARANTEE

Certificate of Calibration

Each unit is tested, calibrated and certified accurate at time of shipment to plus or minus 2% of gauge capacity when reading the middle 50% of full scale at 73.4° F. A Certificate of Calibration with traceability to the United States National Institute of Standards & Technology is included.

Design and Construction

A precision machined hydraulic rotary piston load cell is coupled to a bourdon tube gauge providing excellent accuracy and repeatability. The maximum reading pointer indicated the peak force attained until it is reset. The capstan hand drive (with detachable handles) rotates the piston as tensile force is applied to the stationary power screw and fastener for ease of operation. The heavy cast aluminum frame has a 100% overload factor.

Specifications

Accuracy: GRADE B (3%-2%-3%)
Capacity: From 100 lb. (45kg) to 4000 lbs (1800kg)
Operation: Power stroke with typical grip is 3 inches (76.2mm). Tester will operate in any vertical, horizontal, or angular position.
Physical:

Height	14.00 inches (356 mm)
Diameter	9.00 inches (229 mm)
Distance across handles	11.00 inches (279 mm)
Net Weight	9.00 pounds (4.0 kg)

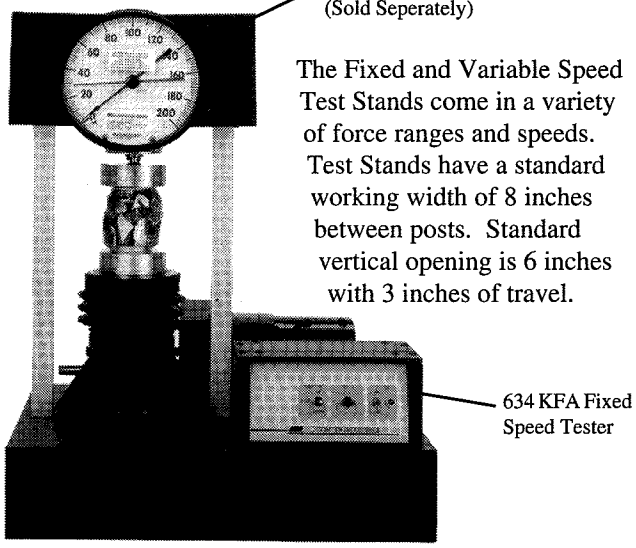
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ANALOG FIXED AND VARIABLE SPEED MOTORIZED TESTERS

COMTEN INDUSTRIES Motorized Analog Compression Testers are available in Variable and Fixed speed models. Both are ideal for a wide variety of uses in quality control, production control, and product design applications. Overall accuracy ± 1.0%.



DSG or SPC Gauge Cell Required (Sold Seperately)

The Fixed and Variable Speed Test Stands come in a variety of force ranges and speeds. Test Stands have a standard working width of 8 inches between posts. Standard vertical opening is 6 inches with 3 inches of travel.

634 KFA Fixed Speed Tester

Variable Speed Motorized Test Stands - requires DSG or SPC Gauge Cell

Part Number	Capacity Pounds / kg.	Adjustable Speed Inches / cm per min	Price
642 KVA 3000	2000 / 900	3.0-.06 / 7.6-.15	**$ 4450**
644 KVA 1500	4000 / 1800	1.5-.03 / 3.8-.08	**$ 5050**
6610 KA 0500	10000 / 4500	.50-.01 / 1.2-.03	**$ 5950**

DCT 64V	-- Dust Cover for 64V and 66V models	**$ 150**
SGT 64V	-- Lexan Safety Guard for 64V and 66V models	**$ 295**

Fixed Speed Motorized Test Stands - requires DSG or SPC Gauge Cell

Part Number	Capacity Pounds / kg.	Fixed Speed Inches / cm per min	Price
632 KFA xxxx	2000 / 900	Inquire	**$ 3450**
634 KFA xxxx	4000 / 1800	Inquire	**$ 3850**
6310 KA xxxx	10000 / 4500	Inquire	**$ 4400**

DCT 63F	-- Dust Cover for 63F models	**$ 125**
SGT 63F	-- Lexan Safety Guard for 63F models	**$ 295**

HAND OPERATED TESTERS

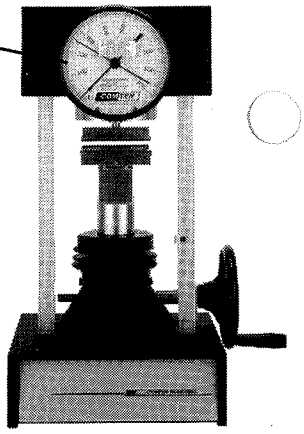
Hand Operated Test Stands - requires DGC or SGC Gauge Cell

Part Number	Capacity Pounds / kg.	Travel per turn Inches / cm	Price
612 KHA 0025	2000 / 900	0.01 / 0.025	**$ 1900**
614 KHA 0010	4000 / 1800	0.01 / 0.025	**$ 2300**
6110 KA 0012	10000 / 4500	0.02 / 0.050	**$ 2900**

DCT 61H	-- Dust Cover for 61H models	**$ 95**
SGT 61H	-- Lexan Safety Guard for 61H models	**$ 250**

DGC or SPC Gauge Cell Required (Sold Seperately)

COMTEN INDUSTRIES Analog Hand Operated Compression Testers are ideal for cost effective or infrequent testing of product samples and material with low compression factors. This model has a standard working width of 8 inches between posts. Standard vertical opening is 6 inches with 3 inches of travel. Overall accuracy ± 1.0%.



612 KHA Hand Operated Tester

COMPRESSION TESTER LOAD CELLS

Capacity Pounds / kg	*Digital Systems*		*Analog Motorized*		*Hand Operated*	
	Part Number	Price	Part Number	Price	Part Number	Price
100 / 45	LPC 0100	**$ 1800**	DSG 0100	**$ 750**	DGC 0100	**$ 650**
160 / 72	--	--	DSG 0160	**$ 750**	DGC 0160	**$ 650**
200 / 90	LPC 0200	**$ 1350**	DSG 0200	**$ 750**	DGC 0200	**$ 650**
400 / 180	LPC 0400	**$ 1350**	DSG 0400	**$ 825**	DGC 0400	**$ 650**
600 / 270	LPC 0600	**$ 1350**	DSG 0600	**$ 825**	DGC 0600	**$ 650**
800 / 360	LPC 0800	**$ 1350**	DSG 0800	**$ 825**	--	--
1000 / 450	LPC 1000	**$ 1350**	DSG 1000	**$ 950**	DGC 1000	**$ 875**
2000 / 900	LPC 2000	**$ 1650**	DSG 2000	**$ 950**	DGC 2000	**$ 875**
4000 / 1800	LPC 4000	**$ 1650**	SGC 4000	**$ 1000**	SPC 4000	**$ 900**
5000 / 950	LPC 5000	**$ 1650**	--	--	--	--
10000 / 4500	LPC 10000	**$ 1950**	SPC 10000	**$ 1650**	SPC 10000	**$ 1600**
20000 / 9000	LPC 20000	**$ 2450**	--	--	--	--

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COMPRESSION TESTING MACHINES

MANUFACTURERS OF

PHYSICAL TESTING EQUIPMENT *SINCE 1960*

COMTEN

COMPRESSION AND TENSILE TESTING MACHINES

PRICE SHEET

NAFTA Prices
Effective 10/1/96

Prices in US dollars. FOB St. Petersburg, FL. Prices subject to change without notice.

COMTEN Industries low cost compression mode testers provide a simple to use design for low speed testing of rigid and brittle materials. Testers have capacities up to 20,000 pounds and are ideal for materials such as ceramics, glass, tile, pelletized ore, and other similar materials. Models are available in motorized (variable or fixed speed) or hand operated versions. Force is displayed through an analog gauge and a digital readout is offered on the variable speed motorized test stands. Test fixtures such as platen, force blocks, or MOR fixtures are available. All testers come with a one year guarantee on workmanship and materials and are calibrated to ASTM standards and traceable to NIST.

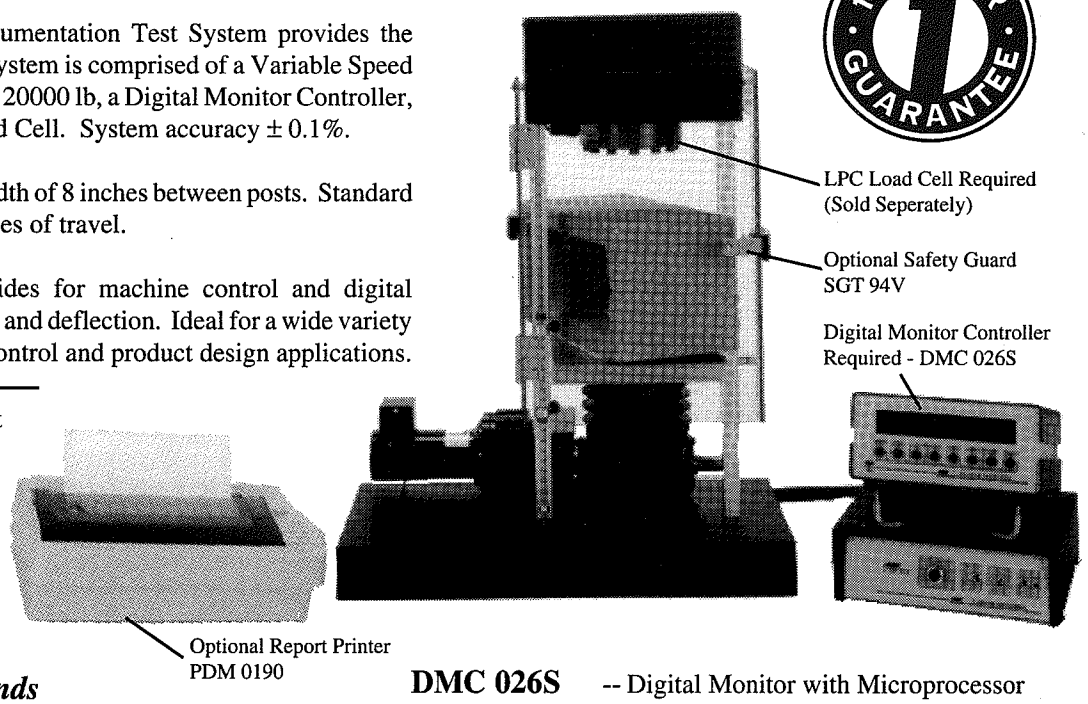
DIGITAL DOCUMENTATION TEST SYSTEM

1 YEAR GUARANTEE

COMTEN INDUSTRIES Digital Documentation Test System provides the foremost in compression testing. The system is comprised of a Variable Speed Motorized Test Stand with capacities to 20000 lb, a Digital Monitor Controller, and a precision LPC Compression Load Cell. System accuracy ± 0.1%.

st Stands have a standard working width of 8 inches between posts. Standard rtical opening is 6 inches with 3 inches of travel.

The Digital Monitor Controller provides for machine control and digital documentation of force readings, speed, and deflection. Ideal for a wide variety of uses in quality control, production control and product design applications.



COMTEN's Windows™ based Test Acquisition Package, ***C-TAP***, allows full control of the test stand along with generation of detailed reports, data, and graphs from a personal computer.

C-TAP Software **$ 1495**

Digital Documentation Test Stands

Part Number	Capacity Pounds / kg.	Adjustable Speed Inches / cm per min	Price
642 KVC 3000	2000 / 900	3.0-.06 / 7.6-.15	**$ 4950**
644 KVC 1500	4000 / 1800	1.5-.03 / 3.8-.08	**$ 5550**
6610 KC 0500	10000 / 4500	.50-.01 / 1.2-.03	**$ 6450**
6620 KC 0300	20000 / 9000	.30-.01 / .76-.03	**$ 7950**

)CT 64V	-- Dust Cover for 64V and 66V models	**$ 150**
SGT 64V	-- Lexan Safety Guard for 64V and 66V models	**$ 295**

DMC 026S	-- Digital Monitor with Microprocessor Controller for complete control and Digital Documentation in pounds, kilograms or newtons. Accuracy is ± 0.1%.	**$1950**
PDM 0190	-- Dot Matrix Printer with firmware that provides printed reports from the results of the compression test run. Includes serial interface and cable.	**$ 375**
DCD DMC	-- Dust Cover for DMC 026S	**$ 60**
DCP PDM	-- Dust Cover for PDM 0190	**$ 60**
VCO 0220	-- 220 VOLT OPTION	**$ 320**

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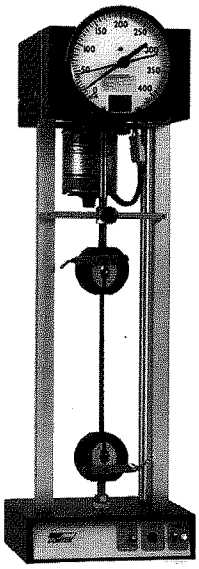
ANALOG TEST SYSTEMS

FIXED SPEED MOTORIZED ANALOG TEST SYSTEMS

Features:

- *Capacities from 10 to 4000 pounds*
- ***INCLUDES** 1.0% accuracy Hydraulic Gauge Cell shown on the front*
- *Easily converted from tensile to compression with optional cage*

Perform ASTM test procedures that do not require a variable speed stand. New fixed speed test stands let you test rubber, textiles, rigid plastics, ceramics, pelletized and bonded materials. Stands include AC gear motor, motor controls with on/off and up/down switches, overforce protection, and a 6-ft cord with three prong plug. Includes Hydraulic Gauge Cell of your choice shown on the front. Strong anodized aluminum king posts stand 6" apart. Vertical travel without clamps is 20". To convert stands for compression testing, order an optional compression cage and fixture. Optional adjustable limit switch and deflection scale is factory installed. Other options include Dust Cover and Safety Guard. Order these accessories when you order your test stand. Stands measure 10"W x 35"H x 12"D.



Fixed Speed Test Stand Accessories

SGT 93F **Safety Guard** **$ 395.**
Protect operator from breaking samples. Shpg Wt 12 lb

DCT 932 **Dust Cover,** for 200-2000 lb Testers **$ 105.00**
DCT 934 **Dust Cover,** for 4000-5000 lb Testers **$ 125.00**
Guard tester against harmful dirt and dust. Shpg Wt 2 lb

VCO 0220 **220 Volt Option** **$ 320.00**
LSS 0932 **Adjustable limit switch** **$ 175.00**

ESI 1200 **Deflection scale,** English units **$ 95.00**
ESM 3050 **Deflection scale,** metric units **$ 95.00**

DIP 0100 **Dial Indicator,** 1 inch (2.54 cm) stroke **$ 195.00**
DIP 0200 **Dial Indicator,** 2 inch (5.08 cm) stroke **$ 295.00**

* Replace (-XX) in Part Number with the suffix code of Hydraulic Gauge Cell shown on front.

Part Number*	Capacity Pounds / Kg	Speed In (cm) / min	Price
93 2M FA 3000-XX	200 / 90	30.0 / 76.2	$ 2845
93 2M FA 2800-XX	200 / 90	28.0 / 68.6	
93 2M FA 2600-XX	200 / 90	26.0 / 66.0	
93 3M FA 2400-XX	300 / 135	24.0 / 61.0	
93 3M FA 2200-XX	300 / 135	22.0 / 55.9	
93 3M FA 2000-XX	300 / 135	20.0 / 50.8	
93 3M FA 1800-XX	300 / 135	18.0 / 45.7	
93 4M FA 1600-XX	400 / 180	16.0 / 40.6	
93 5M FA 1400-XX	500 / 225	14.0 / 35.6	
93 5M FA 1200-XX	500 / 225	12.0 / 30.5	
93 6M FA 1100-XX	600 / 270	11.0 / 27.9	
93 6M FA 1000-XX	600 / 270	10.0 / 25.4	

Part Number*	Capacity Pounds / Kg	Speed In (cm) / min	Price
93 7M FA 0900-XX	700 / 315	9.0 / 22.9	$ 2845
93 8M FA 0800-XX	800 / 360	8.0 / 20.3	
93 8M FA 0700-XX	800 / 360	7.0 / 17.8	
93 1K FA 0600-XX	1000 / 450	6.0 / 15.2	
93 1K FA 0500-XX	1000 / 450	5.0 / 12.7	
93 1K FA 0400-XX	1500 / 675	4.0 / 10.2	
93 1K FA 0300-XX	1500 / 675	3.0 / 7.6	
93 2K FA 0200-XX	2000 / 900	2.0 / 5.1	
93 2K FA 0100-XX	2000 / 900	1.0 / 2.5	
93 2K FA 0050-XX	2000 / 900	0.5 / 1.3	
93 5K FA 0100-XX	5000 / 2250	1.0 / 2.5	$ 3220
93 5K FA 0050-XX	5000 / 2250	0.5 / 1.3	
93 5K FA 0030-XX	5000 / 2250	0.3 / 0.8	

Testers run at 95% of listed speed at full capacity load.

CAUTION Overforce protection of Load Cell may n respond fast enough to prevent damage when running the tester at very high speeds.

VARIABLE SPEED MOTORIZED ANALOG TEST SYSTEMS

Features:

- *Versatile: Used to perform a wide variety of ASTM tests*
- *Capacities from 10 to 4000 LBS*
- ***INCLUDES** 1.0% accuracy Hydraulic Gauge Cell*
- *Easily converts from tensile to compression with optional cage*

* Replace (-XX) in Part Number with the suffix code of Hydraulic Gauge Cell shown on front.

These variable speed test stands provide general purpose testing to ASTM standards. Stands include a shunt wound, DC gear motor drive with dynamic brake, motor controls with power and up/down switches, speed dial, and high speed return switch, a digital crosshead speed meter, adjustable magnetic limit switch and deflection scale *(specify English or metric when ordering)*, adjustable rubber surfaced feet, balance level, overforce protection, and a 6-ft cord with three-prong plug. Four strong anodized aluminum king posts. Vertical travel of 20", 30" or 46" without fixtures. Standard width is 8" between posts. Includes Hydraulic Gauge Cell of your choice shown on the front. To convert stands for compression testing, order an optional compression cage and fixture. Other options include Dust Cover and Safety Guard.

Standard Width Variable Speed Test Stands

VCO 0220 **220 Volt Option,** available on any Variable Test System **$ 320.00**

8" Working Width (12"W x 11"D)		**20" Travel w/o Clamps** (42"H) Shpg Wt 82 lb (4-5K lb models 98 lb)		**30" Travel w/o Clamps** (52"H) Shpg Wt 87 lb (4-5K lb models 103 lb)		**46" Travel w/o Clamps*** (68"H) Shpg Wt 99 lb (4-5K lb 40" Travel)	
Capacity Pounds / Kg.	Speed Range Inches / cm per min	Part number *	Price	Part number *	Price	Part number *	Price
600 / 270	30.0-0.6 / 76.2-1.5	94 6M VA 3000-XX	$ 4200	94 6M RA 3000-XX	$ 4500	94 6M YA 3000-XX	$ 4900
1000 / 450	20.0-0.4 / 50.8-1.0	94 1K VA 2000-XX		94 1K RA 2000-XX		94 1K YA 2000-XX	
1500 / 675	12.0-0.3 / 30.5-0.8	94 1K VA 1200-XX		94 1K RA 1200-XX		94 1K YA 1200-XX	
2000 / 900	10.0-0.2 / 25.4-0.5	94 2K VA 1000-XX		94 2K RA 1000-XX		94 2K YA 1000-XX	
2000 / 900	8.0-.16 / 20.3-0.4	94 2K VA 0800-XX	$ 4200	94 2K RA 0800-XX	$ 4500	94 2K YA 0800-XX	$ 4900
2000 / 900	6.0-.12 / 15.2-0.3	94 2K VA 0600-XX		94 2K RA 0600-XX		94 2K YA 0600-XX	
2000 / 900	4.0-.08 / 10.2-0.2	94 2K VA 0400-XX		94 2K RA 0400-XX		94 2K YA 0400-XX	
2000 / 900	2.5-.05 / 6.4-.12	94 2K VA 0250-XX		94 2K RA 0250-XX		94 2K YA 0250-XX	
4000 / 1800	4.0-.08 / 10.2-0.2	94 4K VA 0400-XX	$ 4975	94 4K RA 0400-XX	$ 5275	94 4K YA 0400-XX	$ 5675
5000 / 2250	3.0-.06 / 7.6-.15	94 5K VA 0300-XX		94 5K RA 0300-XX		94 5K YA 0300-XX	
5000 / 2250	1.0-.04 / 2.5-.06	94 5K VA 0100-XX		94 5K RA 0100-XX		94 5K YA 0100-XX	
5000 / 2250	0.5-.02 / 1.3-.03	94 5K VA 0050-XX		94 5K RA 0050-XX		94 5K YA 0050-XX	
SAFETY GUARD protection from breaking samples		SGT 94V	$ 395.00	SGT 94R	$ 450.00	SGT 94Y	$ 625.0
DUST COVER guard against dirt and dust that could damage stand	For 1-2K lb testers	DCT 942	$ 105.00	DCT 942R	$ 125.00	DCT 94Y for all 46" testers	$ 175.00
	For 4-5K lb testers	DCT 944	$ 125.00	DCT 944R	$ 140.00		

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HAND OPERATED AND ANALOG TEST SYSTEMS

COMTEN

COMPRESSION AND TENSILE TESTING MACHINES

SINCE 1960

NAFTA

Effective 3/1/97

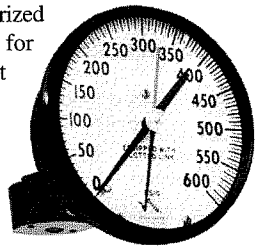
PRICE SHEET

All prices are in USA dollars. F.O.B. St. Petersburg, FL.
Prices are subject to change without notice.

Most Equipment Shipped in 2 Weeks or less

ANALOG HYDRAULIC GAUGE CELLS

Hydraulic Gauge Cells can be fitted to all Motorized and Hand Operated Analog Test Systems. Ideal for low cost testing where very high accuracy is not needed. Available in capacities from 30 to 4000 pounds. Accurate to ± 1.0% of Full Scale when above 10%. Ship weight is 2.5 lb (1.2 kg) except 2000+ lb gauges are 3 lb (1.4 kg)



- *Overforce Protection on all Motorized Test Stands*

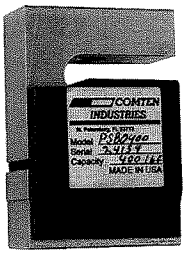
Prices listed are for additional or replacement Guage Cells

Capacity lb (kg)	System Accuracy	Motorized Gauge Part No.	Price	Hand Operated Gauge Part No.	Price
30 (13)	0.3 lb	CFG 0030-30	$ 750.00	HFG 0030-30	$ 650.00
60 (27)	0.6 lb	CFG 0060-60	$ 750.00	HFG 0060-60	$ 650.00
100 (45)	1.0 lb	CFG 0100-1M	$ 750.00	HFG 0100-1M	$ 650.00
200 (90)	2.0 lb	CFG 0200-2M	$ 750.00	HFG 0200-2M	$ 650.00
300 (140)	3.0 lb	CFG 0300-3M	$ 750.00	HFG 0300-3M	$ 650.00
400 (180)	4.0 lb	CFG 0400-4M	$ 750.00	HFG 0400-4M	$ 650.00
600 (270)	6.0 lb	CFG 0600-6M	$ 750.00	HFG 0600-6M	$ 650.00
1000 (450)	10 lb	CFG 1000-1K	$ 750.00	HFG 1000-1K	$ 650.00
2000 (900)	20 lb	CFG 2000-2K	$ 750.00	HFG 2000-2K	$ 650.00
4000 (1800)	40 lb	SPG 4000-4K	$ 925.00	SFG 4000-4K	$ 825.00

CAUTION Analog systems should operate in the mid 50% of the gauge scale (ie. A 1000 lb gauge should be used between 250 and 750 lb). Digital systems should operate in the mid 80% of the Load Cell range.

STANDARD S-BLOCK LOAD CELLS

COMTEN'S *new* Digital Force System is ideal for companies focused on increasing product quality and consistency at a reasonable cost. The Digital Force Meter has full front panel configuration with an easy to read 0.33" LCD display. Additional load cells from 10-5000 pounds can be added. These Load Cells have an accuracy of ± 0.5% of Full Scale and Over Force Protection of 150% of Rated Capacity. Built-in identification electronics allows cells to be interchanged without recalibration. Ship weight is 6 lb (2.7 kg).



Also available on Fixed and Variable Speed Motorized Test Stands. See "Low Cost Digital Force Systems" price sheet for more details on the Digital Force Meter.

Prices listed are for additional or replacement S-Block Load Cells

S-Block Part Number	Capacity lb (kg)	Resolution	System Accuracy	Price
SSB-10	10 (4.5)	0.01	0.05 lb	$ 495.00
SSB-20	20 (9)	0.01	0.1 lb	$ 495.00
SSB-40	40 (18)	0.01	0.2 lb	$ 495.00
SSB-1M	100 (45)	0.1	0.5 lb	$ 495.00
SSB-2M	200 (90)	0.1	1.0 lb	$ 495.00
SSB-5M	500 (225)	0.1	2.5 lb	$ 495.00
SSB-1K	1000 (450)	1	5.0 lb	$ 495.00
SSB-2K	2000 (900)	1	10.0 lb	$ 495.00
SSB-4K	4000 (1800)	1	20.0 lb	$ 675.00
SSB-5K	5000 (2250)	1	25.0 lb	$ 675.00

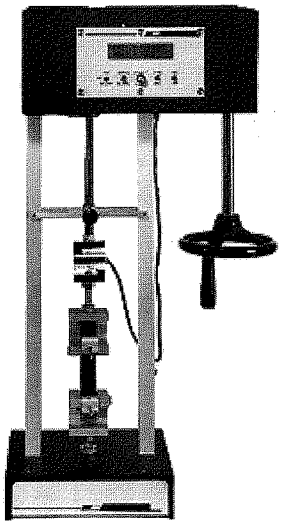
When ordering test stands located on this sheet, use the following method. After selecting a test stand, choose the Analog Gauge Cell (or Standard S-Block for Hand Operated Stands) which best fits your testing application. Insert the suffix code from the desired Gauge Cell to the suffix of the desired test stand. Example: When ordering a Hand Operated Analog Tester with a 200 lb Gauge Cell, use part number 912 KHA 0025-2M.

HAND OPERATED DIGITAL AND ANALOG TEST SYSTEMS

Features:

- *For occasional testing of low elongation materials*
- *Capacities from 10 to 5000 pounds*
- ***INCLUDES** 0.5% accuracy Digital Force System with S-Block Load Cell **OR** 1.0% accuracy Hydraulic Gauge Cell shown above*
- *Easily converted from tensile to compression with optional cage*

Use a hand operated test stand when your application doesn't require a motorized tester. Ideal for testing materials with a low elongation, such as rigid plastics. The 2000 lb capacity models travel 0.025 inches (0.635 mm) with one turn of the hand wheel. The 4/5000 lb capacity models travel 0.010 inches (0.254 mm) with one turn of the hand wheel. Includes choice of **either** Digital Force System with S-Block Load Cell or Hydraulic Gauge Cell shown above. Twin post structure is anodized aluminum and steel. Width between posts is 6". Vertical travel without clamps 20". Convert stands to compression testing with an optional compression cage. Optional deflection scale is factory installed. Order optional Safety Guard and Dust Cover separately when you order a test stand. Stand measures 14"W x 35"H x 8"D.



Digital model shown

NOTE: Replace (-XX) in Part Number with the suffix code of desired Standard S-Block Load Cell or Hydraulic Gauge Cell above.

912 KHD 0025-XX **Digital hand operated test stand**
2000 lb capacity. Shpg wt 60 lb (28 kg) **$ 2440.00**

915KHD 0010-XX **Digital hand operated test stand**
5000 lb capacity. Shpg wt 65 lb (30 kg) **$ 2820.00**

912 KHA 0025-XX **Analog hand operated test stand**
2000 lb capacity. Shpg wt 60 lb (28 kg) **$ 1790.00**

914 KHA 0010-XX **Analog hand operated test stand**
4000 lb capacity. Shpg wt 65 lb (30 kg) **$ 2120.00**

Hand Operated Test Stand Accessories

SGT 91H **Safety Guard** **$ 395.00**
Protect operator from breaking samples. Shpg Wt 12 lb

DCT 912 **Dust Cover,** for 2000 lb Testers **$ 105.00**
DCT 914 **Dust Cover,** for 4/5000 lb Testers **$ 125.00**
Guard tester against harmful dirt and dust. Shpg Wt 2 lb

ESI 1200 **Deflection scale,** English units **$ 95.00**
ESM 3050 **Deflection scale,** metric units **$ 95.00**

DIP 0100 **Dial Indicator,** 1 inch (2.54 cm) stroke **$ 195.00**
DIP 0200 **Dial Indicator,** 2 inch (5.08 cm) stroke **$ 295.00**

For more information, call our applications department at 813-822-3508

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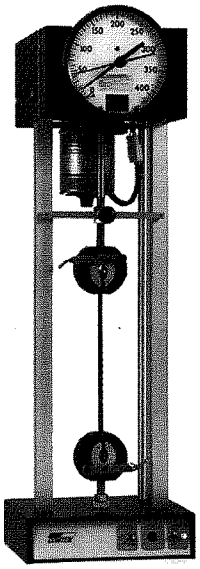
ANALOG TEST SYSTEMS

FIXED SPEED MOTORIZED ANALOG TEST SYSTEMS

Features:

- *Capacities from 10 to 4000 pounds*
- ***INCLUDES** 1.0% accuracy Hydraulic Gauge Cell shown on the front*
- *Easily converted from tensile to compression with optional cage*

Perform ASTM test procedures that do not require a variable speed stand. New fixed speed test stands let you test rubber, textiles, rigid plastics, ceramics, pelletized and bonded materials. Stands include AC gear motor, motor controls with on/off and up/down switches, overforce protection, and a 6-ft cord with three prong plug. Includes Hydraulic Gauge Cell of your choice shown on the front. Strong anodized aluminum king posts stand 6" apart. Vertical travel without clamps is 20". To convert stands for compression testing, order an optional compression cage and fixture. Optional adjustable limit switch and deflection scale is factory installed. Other options include Dust Cover and Safety Guard. Order these accessories when you order your test stand. Stands measure 10"W x 35"H x 12"D.



Fixed Speed Test Stand Accessories

SGT 93F **Safety Guard** **$ 395.**
Protect operator from breaking samples. Shpg Wt 12 lb

DCT 932 **Dust Cover,** for 200-2000 lb Testers **$ 105.00**
DCT 934 **Dust Cover,** for 4000-5000 lb Testers **$ 125.00**
Guard tester against harmful dirt and dust. Shpg Wt 2 lb

VCO 0220 **220 Volt Option** **$ 320.00**
LSS 0932 **Adjustable limit switch** **$ 175.00**

ESI 1200 **Deflection scale,** English units **$ 95.00**
ESM 3050 **Deflection scale,** metric units **$ 95.00**

DIP 0100 **Dial Indicator,** 1 inch (2.54 cm) stroke **$ 195.00**
DIP 0200 **Dial Indicator,** 2 inch (5.08 cm) stroke **$ 295.00**

* Replace (-XX) in Part Number with the suffix code of Hydraulic Gauge Cell shown on front.

Part Number*	Capacity Pounds / Kg	Speed In (cm) / min	Price	Part Number*	Capacity Pounds / Kg	Speed In (cm) / min	Price
93 2M FA 3000-XX	200 / 90	30.0 / 76.2	$ 2845	93 7M FA 0900-XX	700 / 315	9.0 / 22.9	$ 2845
93 2M FA 2800-XX	200 / 90	28.0 / 68.6		93 8M FA 0800-XX	800 / 360	8.0 / 20.3	
93 2M FA 2600-XX	200 / 90	26.0 / 66.0		93 8M FA 0700-XX	800 / 360	7.0 / 17.8	
93 3M FA 2400-XX	300 / 135	24.0 / 61.0		93 1K FA 0600-XX	1000 / 450	6.0 / 15.2	
93 3M FA 2200-XX	300 / 135	22.0 / 55.9		93 1K FA 0500-XX	1000 / 450	5.0 / 12.7	
93 3M FA 2000-XX	300 / 135	20.0 / 50.8		93 1K FA 0400-XX	1500 / 675	4.0 / 10.2	
93 3M FA 1800-XX	300 / 135	18.0 / 45.7		93 1K FA 0300-XX	1500 / 675	3.0 / 7.6	
93 4M FA 1600-XX	400 / 180	16.0 / 40.6		93 2K FA 0200-XX	2000 / 900	2.0 / 5.1	
93 5M FA 1400-XX	500 / 225	14.0 / 35.6		93 2K FA 0100-XX	2000 / 900	1.0 / 2.5	
93 5M FA 1200-XX	500 / 225	12.0 / 30.5		93 2K FA 0050-XX	2000 / 900	0.5 / 1.3	
93 6M FA 1100-XX	600 / 270	11.0 / 27.9		93 5K FA 0100-XX	5000 / 2250	1.0 / 2.5	$ 3220
93 6M FA 1000-XX	600 / 270	10.0 / 25.4		93 5K FA 0050-XX	5000 / 2250	0.5 / 1.3	
				93 5K FA 0030-XX	5000 / 2250	0.3 / 0.8	

Testers run at 95% of listed speed at full capacity load.

CAUTION Overforce protection of Load Cell may n respond fast enough to prevent damage when running the tester at very high speeds.

VARIABLE SPEED MOTORIZED ANALOG TEST SYSTEMS

Features:

- *Versatile: Used to perform a wide variety of ASTM tests*
- *Capacities from 10 to 4000 LBS*
- ***INCLUDES** 1.0% accuracy Hydraulic Gauge Cell*
- *Easily converts from tensile to compression with optional cage*

* Replace (-XX) in Part Number with the suffix code of Hydraulic Gauge Cell shown on front.

These variable speed test stands provide general purpose testing to ASTM standards. Stands include a shunt wound, DC gear motor drive with dynamic brake, motor controls with power and up/down switches, speed dial, and high speed return switch, a digital crosshead speed meter, adjustable magnetic limit switch and deflection scale *(specify English or metric when ordering)*, adjustable rubber surfaced feet, balance level, overforce protection, and a 6-ft cord with three-prong plug. Four strong anodized aluminum king posts. Vertical travel of 20", 30" or 46" without fixtures. Standard width is 8" between posts. Includes Hydraulic Gauge Cell of your choice shown on the front. To convert stands for compression testing, order an optional compression cage and fixture. Other options include Dust Cover and Safety Guard.

Standard Width Variable Speed Test Stands

VCO 0220 **220 Volt Option,** available on any Variable Test System **$ 320.00**

8" Working Width (12"W x 11"D)		20" Travel w/o Clamps (42"H) Shpg Wt 82 lb (4-5K lb models 98 lb)		30" Travel w/o Clamps (52"H) Shpg Wt 87 lb (4-5K lb models 103 lb)		46" Travel w/o Clamps* (68"H) Shpg Wt 99 lb (4-5K lb 40" Travel)	
Capacity Pounds / Kg.	Speed Range Inches / cm per min	Part number *	Price	Part number *	Price	Part number *	Price
600 / 270	30.0-0.6 / 76.2-1.5	94 6M VA 3000-XX	$ 4200	94 6M RA 3000-XX	$ 4500	94 6M YA 3000-XX	$ 4900
1000 / 450	20.0-0.4 / 50.8-1.0	94 1K VA 2000-XX		94 1K RA 2000-XX		94 1K YA 2000-XX	
1500 / 675	12.0-0.3 / 30.5-0.8	94 1K VA 1200-XX		94 1K RA 1200-XX		94 1K YA 1200-XX	
2000 / 900	10.0-0.2 / 25.4-0.5	94 2K VA 1000-XX		94 2K RA 1000-XX		94 2K YA 1000-XX	
2000 / 900	8.0-.16 / 20.3-0.4	94 2K VA 0800-XX	$ 4200	94 2K RA 0800-XX	$ 4500	94 2K YA 0800-XX	$ 4900
2000 / 900	6.0-.12 / 15.2-0.3	94 2K VA 0600-XX		94 2K RA 0600-XX		94 2K YA 0600-XX	
2000 / 900	4.0-.08 / 10.2-0.2	94 2K VA 0400-XX		94 2K RA 0400-XX		94 2K YA 0400-XX	
2000 / 900	2.5-.05 / 6.4-.12	94 2K VA 0250-XX		94 2K RA 0250-XX		94 2K YA 0250-XX	
4000 / 1800	4.0-.08 / 10.2-0.2	94 4K VA 0400-XX	$ 4975	94 4K RA 0400-XX	$ 5275	94 4K YA 0400-XX	$ 5675
5000 / 2250	3.0-.06 / 7.6-.15	94 5K VA 0300-XX		94 5K RA 0300-XX		94 5K YA 0300-XX	
5000 / 2250	1.0-.04 / 2.5-.06	94 5K VA 0100-XX		94 5K RA 0100-XX		94 5K YA 0100-XX	
5000 / 2250	0.5-.02 / 1.3-.03	94 5K VA 0050-XX		94 5K RA 0050-XX		94 5K YA 0050-XX	
SAFETY GUARD protection from breaking samples		SGT 94V	$ 395.00	SGT 94R	$ 450.00	SGT 94Y	$ 625.0
DUST COVER guard against dirt and dust that could damage stand	For 1-2K lb testers	DCT 942	$ 105.00	DCT 942R	$ 125.00	DCT 94Y for all 46" testers	$ 175.00
	For 4-5K lb testers	DCT 944	$ 125.00	DCT 944R	$ 140.00		

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HAND OPERATED AND ANALOG TEST SYSTEMS

COMTEN

COMPRESSION AND TENSILE TESTING MACHINES

SINCE 1960

NAFTA

Effective 3/1/97

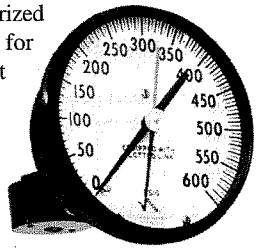
PRICE SHEET

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Prices are subject to change without notice.

Most Equipment Shipped in 2 Weeks or less

ANALOG HYDRAULIC GAUGE CELLS

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- *Overforce Protection on all Motorized Test Stands*

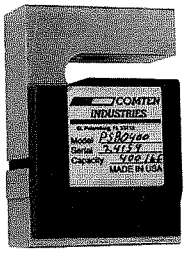
Prices listed are for additional or replacement Guage Cells

Capacity lb (kg)	System Accuracy	Motorized Gauge Part No.	Price	Hand Operated Gauge Part No.	Price
30 (13)	0.3 lb	CFG 0030-30	$ 750.00	HFG 0030-30	$ 650.00
60 (27)	0.6 lb	CFG 0060-60	$ 750.00	HFG 0060-60	$ 650.00
100 (45)	1.0 lb	CFG 0100-1M	$ 750.00	HFG 0100-1M	$ 650.00
200 (90)	2.0 lb	CFG 0200-2M	$ 750.00	HFG 0200-2M	$ 650.00
300 (140)	3.0 lb	CFG 0300-3M	$ 750.00	HFG 0300-3M	$ 650.00
400 (180)	4.0 lb	CFG 0400-4M	$ 750.00	HFG 0400-4M	$ 650.00
600 (270)	6.0 lb	CFG 0600-6M	$ 750.00	HFG 0600-6M	$ 650.00
1000 (450)	10 lb	CFG 1000-1K	$ 750.00	HFG 1000-1K	$ 650.00
2000 (900)	20 lb	CFG 2000-2K	$ 750.00	HFG 2000-2K	$ 650.00
4000 (1800)	40 lb	SPG 4000-4K	$ 925.00	SFG 4000-4K	$ 825.00

CAUTION Analog systems should operate in the mid 50% of the gauge scale (ie. A 1000 lb gauge should be used between 250 and 750 lb). Digital systems should operate in the mid 80% of the Load Cell range.

STANDARD S-BLOCK LOAD CELLS

COMTEN'S *new* Digital Force System is ideal for companies focused on increasing product quality and consistency at a reasonable cost. The Digital Force Meter has full front panel configuration with an easy to read 0.33" LCD display. Additional load cells from 10-5000 pounds can be added. These Load Cells have an accuracy of ± 0.5% of Full Scale and Over Force Protection of 150% of Rated Capacity. Built-in identification electronics allows cells to be interchanged without recalibration. Ship weight is 6 lb (2.7 kg).



Also available on Fixed and Variable Speed Motorized Test Stands. See "Low Cost Digital Force Systems" price sheet for more details on the Digital Force Meter.

Prices listed are for additional or replacement S-Block Load Cells

S-Block Part Number	Capacity lb (kg)	Resolution	System Accuracy	Price
SSB-10	10 (4.5)	0.01	0.05 lb	$ 495.00
SSB-20	20 (9)	0.01	0.1 lb	$ 495.00
SSB-40	40 (18)	0.01	0.2 lb	$ 495.00
SSB-1M	100 (45)	0.1	0.5 lb	$ 495.00
SSB-2M	200 (90)	0.1	1.0 lb	$ 495.00
SSB-5M	500 (225)	0.1	2.5 lb	$ 495.00
SSB-1K	1000 (450)	1	5.0 lb	$ 495.00
SSB-2K	2000 (900)	1	10.0 lb	$ 495.00
SSB-4K	4000 (1800)	1	20.0 lb	$ 675.00
SSB-5K	5000 (2250)	1	25.0 lb	$ 675.00

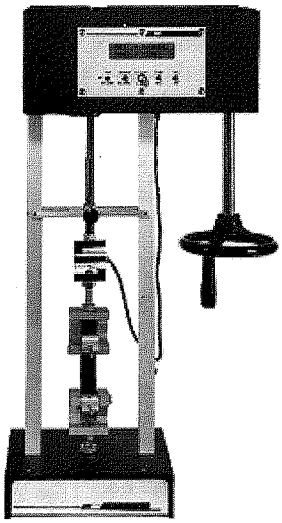
When ordering test stands located on this sheet, use the following method. After selecting a test stand, choose the Analog Gauge Cell (or Standard S-Block for Hand Operated Stands) which best fits your testing application. Insert the suffix code from the desired Gauge Cell to the suffix of the desired test stand. Example: When ordering a Hand Operated Analog Tester with a 200 lb Gauge Cell, use part number 912 KHA 0025-2M.

HAND OPERATED DIGITAL AND ANALOG TEST SYSTEMS

Features:

- *For occasional testing of low elongation materials*
- *Capacities from 10 to 5000 pounds*
- ***INCLUDES** 0.5% accuracy Digital Force System with S-Block Load Cell **OR** 1.0% accuracy Hydraulic Gauge Cell shown above*
- *Easily converted from tensile to compression with optional cage*

Use a hand operated test stand when your application doesn't require a motorized tester. Ideal for testing materials with a low elongation, such as rigid plastics. The 2000 lb capacity models travel 0.025 inches (0.635 mm) with one turn of the hand wheel. The 4/5000 lb capacity models travel 0.010 inches (0.254 mm) with one turn of the hand wheel. Includes choice of **either** Digital Force System with S-Block Load Cell or Hydraulic Gauge Cell shown above. Twin post structure is anodized aluminum and steel. Width between ... posts is 6". Vertical travel without clamps 20". Convert ... ands to compression testing with an optional compression cage. Optional deflection scale is factory installed. Order optional Safety Guard and Dust Cover separately when you order a test stand. Stand measures 14"W x 35"H x 8"D.



Digital model shown

NOTE: Replace (-XX) in Part Number with the suffix code of desired Standard S-Block Load Cell or Hydraulic Gauge Cell above.

912 KHD 0025-XX **Digital hand operated test stand**
2000 lb capacity. Shpg wt 60 lb (28 kg) **$ 2440.00**

915KHD 0010-XX **Digital hand operated test stand**
5000 lb capacity. Shpg wt 65 lb (30 kg) **$ 2820.00**

912 KHA 0025-XX **Analog hand operated test stand**
2000 lb capacity. Shpg wt 60 lb (28 kg) **$ 1790.00**

914 KHA 0010-XX **Analog hand operated test stand**
4000 lb capacity. Shpg wt 65 lb (30 kg) **$ 2120.00**

Hand Operated Test Stand Accessories

SGT 91H **Safety Guard** **$ 395.00**
Protect operator from breaking samples. Shpg Wt 12 lb

DCT 912 **Dust Cover,** for 2000 lb Testers **$ 105.00**
DCT 914 **Dust Cover,** for 4/5000 lb Testers **$ 125.00**
Guard tester against harmful dirt and dust. Shpg Wt 2 lb

ESI 1200 **Deflection scale,** English units **$ 95.00**
ESM 3050 **Deflection scale,** metric units **$ 95.00**

DIP 0100 **Dial Indicator,** 1 inch (2.54 cm) stroke **$ 195.00**
DIP 0200 **Dial Indicator,** 2 inch (5.08 cm) stroke **$ 295.00**

For more information, call our applications department at 813-822-3508

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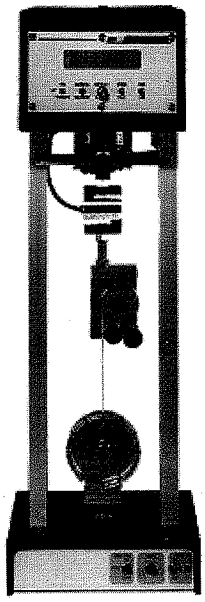
LOW COST DIGITAL FORCE SYSTEMS

FIXED SPEED MOTORIZED DIGITAL TEST SYSTEMS

Features:

- *Capacities from 10 to 5000 pounds*
- ***INCLUDES** 0.5% accuracy Digital Force System with S-Block Load Cell*
- *Easily converted from tensile to compression with optional cage*

Perform ASTM test procedures that do not require a variable speed stand. New fixed speed test stands let you test rubber, textiles, rigid plastics, ceramics, pelletized and bonded materials. Stands include AC gear motor, motor controls with on/off and up/down switches, overforce protection, and a 6-ft cord with three prong plug. Includes Digital Force System with S-Block Load Cell of your choice shown below. Strong anodized aluminum king posts stand 6" apart. Vertical travel without clamps is 20". To convert stands for compression testing, order an optional compression cage and fixture. Optional adjustable limit switch and elongation scales are factory installed. Other options include Dust Cover and Safety Guard. Order these accessories when you order your test stand. Stands measure 10"W x 35"H x 12"D.



Fixed Speed Test Stand Accessories

SGT 93F	**Safety Guard**	**$ 395.00**
Protect operator from breaking samples. Shpg Wt 12 lb		
DCT 932	**Dust Cover,** for 200-2000 lb Testers	**$ 105.00**
DCT 934	**Dust Cover,** for 4000-5000 lb Testers	**$ 125.00**
Guard tester against harmful dirt and dust. Shpg Wt 2 lb		
VCO 0220	**220 Volt Option**	**$ 320.00**
LSS 0932	**Adjustable limit switch**	**$ 175.00**
ESI 1200	**Deflection scale,** English units	**$ 95.00**
ESM 3050	**Deflection scale,** metric units	**$ 95.00**
DIP 0100	**Dial Indicator,** 1 inch (2.54 cm) stroke	**$ 195.00**
DIP 0200	**Dial Indicator,** 2 inch (5.08 cm) stroke	**$ 295.00**

* Replace (-XX) in Part Number with the suffix code of desired digital force system below.

Part Number *	Capacity Pounds / Kg	Speed In (cm) / min	Price
93 2M FD 3000-XX	200 / 90	30.0 / 76.2	$ 3490
93 2M FD 2800-XX	200 / 90	28.0 / 68.6	
93 2M FD 2600-XX	200 / 90	26.0 / 66.0	
93 3M FD 2400-XX	300 / 135	24.0 / 61.0	
93 3M FD 2200-XX	300 / 135	22.0 / 55.9	
93 3M FD 2000-XX	300 / 135	20.0 / 50.8	
93 3M FD 1800-XX	300 / 135	18.0 / 45.7	
93 4M FD 1600-XX	400 / 180	16.0 / 40.6	
93 5M FD 1400-XX	500 / 225	14.0 / 35.6	
93 5M FD 1200-XX	500 / 225	12.0 / 30.5	
93 6M FD 1100-XX	600 / 270	11.0 / 27.9	
93 6M FD 1000-XX	600 / 270	10.0 / 25.4	

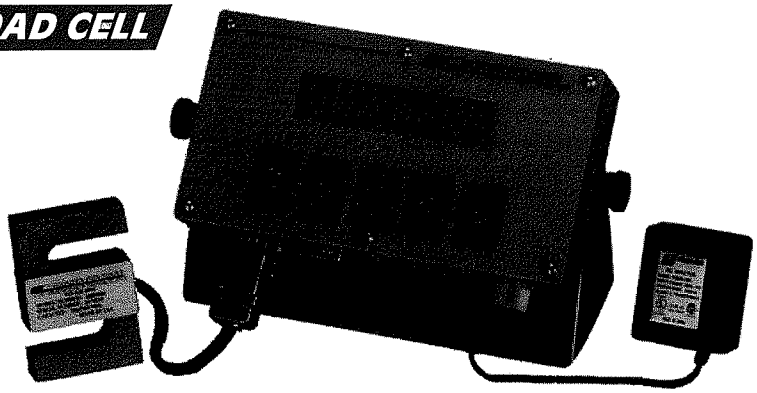
Part Number *	Capacity Pounds / Kg	Speed In (cm) / min	Price
93 7M FD 0900-XX	700 / 315	9.0 / 22.9	$ 3490
93 8M FD 0800-XX	800 / 360	8.0 / 20.3	
93 8M FD 0700-XX	800 / 360	7.0 / 17.8	
93 1K FD 0600-XX	1000 / 450	6.0 / 15.2	
93 1K FD 0500-XX	1000 / 450	5.0 / 12.7	
93 1K FD 0400-XX	1500 / 675	4.0 / 10.2	
93 1K FD 0300-XX	1500 / 675	3.0 / 7.6	
93 2K FD 0200-XX	2000 / 900	2.0 / 5.1	
93 2K FD 0100-XX	2000 / 900	1.0 / 2.5	
93 2K FD 0050-XX	2000 / 900	0.5 / 1.3	
93 5K FD 0100-XX	5000 / 2250	1.0 / 2.5	$ 3820
93 5K FD 0050-XX	5000 / 2250	0.5 / 1.3	
93 5K FD 0030-XX	5000 / 2250	0.3 / 0.8	

Testers run at 95% of listed speed at full capacity load.

DIGITAL FORCE METER WITH S-BLOCK LOAD CELL

Features:

- *Converts COMTEN analog test stands to digital*
- *Capacities from 10 - 5000 pounds*
- *Durable metal case and easy to read 0.33" LCD display*
- *Interchangeable S-Block load cell with over force protection*
- *High Quality / Low Cost Digital force readout system*
- *Calibrated & certified traceable to NIST standards and system accuracy of 0.5% of Full Scale*
- *Zero tare to 20% of Full Scale*
- *Provides peak hold and continuous display features*
- *Two way computer control available through RS-232 connection*
- *Force readout in pounds, kilograms, newtons, grams, or ounces*
- *Compatible with all testing machines on front and above*
- *RS 232 communications with selectable Baud rates of 1200 to 9600 (Order RS 232 cable separately below)*



COMTEN'S *new* Digital Force System is perfect for today's wide range of testing applications. Ideal for companies focused on increasing product quality and consistency at a reasonable cost. Whether being used for laboratory testing or product line testing, our Digital Force System will exceed the increasing demands for durability, accuracy, and convenience. The Digital Force Meter has full front panel configuration with an easy to read 0.33" LCD display. Additional load cells from 10-5000 pounds can be added to the Digital Force Meter. These Load Cells have an accuracy of ±0.5% of Full Scale and Over Force Protection of 150% of Rated Capacity. Built-in identification electronics allows cells to be interchanged on the system without recalibration.

Part Number	Capacity lb (kg)	Resolution	System Accuracy	Price
DFS 2000-10	10 (4.5)	0.01	0.05 lb	$ 1295.00
DFS 2000-20	20 (9)	0.01	0.1 lb	$ 1295.00
DFS 2000-40	40 (18)	0.01	0.2 lb	$ 1295.00
DFS 2000-1M	100 (45)	0.1	0.5 lb	$ 1295.00
DFS 2000-2M	200 (90)	0.1	1.0 lb	$ 1295.00
DFS 2000-5M	500 (225)	0.1	2.5 lb	$ 1295.00
DFS 2000-1K	1000 (450)	1	5.0 lb	$ 1295.00
DFS 2000-2K	2000 (900)	1	10.0 lb	$ 1295.00
DFS 5000-4K	4000 (1800)	1	20.0 lb	$ 1425.00
DFS 5000-5K	5000 (2250)	1	25.0 lb	$ 1425.00

SSB-XX	Additional S-Block Load Cells 2K and under	$ 495.00
SSB-XX	Additional S-Block Load Cells 4K and 5K	$ 675.00
VCO 0220 9V	220 Volt Option	$ 50
EWC 0909006	RS 232 communications cable	$ 16..
DCD DFM	Dust Cover for Digital Force Meter	$ 50.00

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LOW COST DIGITAL FORCE SYSTEMS

COMTEN

COMPRESSION AND TENSILE TESTING MACHINES

SINCE 1960

NAFTA

Effective 3/1/97

PRICE SHEET

All prices are in USA dollars. F.O.B. St. Petersburg, FL.
Prices are subject to change without notice.

Most Equipment Shipped in 2 Weeks or less

VARIABLE SPEED MOTORIZED DIGITAL TEST SYSTEMS

Features:

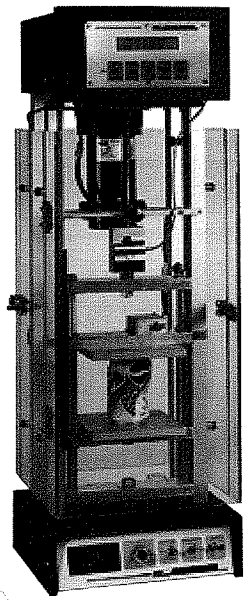
- *Versatile: Used to perform a wide variety of ASTM tests*
- *Capacities from 10 to 5000 LBS*
- ***INCLUDES** 0.5% accuracy Digital Force System with S-Block Load Cell shown on the back*
- *Easily converts from tensile to compression with optional cage*

These variable speed test stands provide general purpose testing to ASTM standards. Stands include a shunt wound, DC gear motor drive with dynamic brake, motor controls with power and up/down switches, speed dial, and high speed return switch, a digital crosshead speed meter, adjustable magnetic limit switch and deflection scale *(specify English or metric when ordering)*, adjustable rubber surfaced feet, balance level, overforce protection, and a 6-ft cord with three-prong plug. Vertical travel of 20", 30" or 46" without fixtures. Standard width is 8" between posts, 12" and 18" widths also available. Includes Digital Force System with S-Block Load Cell of your choice shown on the back. To convert stands for compression testing, order an optional compression cage and fixture. Other options include Dust Cover and Safety Guard. Four strong anodized aluminum king posts.

Standard Width Variable Speed Test Stands

* Replace (-XX) in Part Number with the suffix code of Desired Digital Force System on the back

8" Working Width (12"W x 11"D)		**20" Travel w/o Clamps** (42"H) Shpg Wt 82 lb (4-5K lb models 98 lb)		**30" Travel w/o Clamps** (52"H) Shpg Wt 87 lb (4-5K lb models 103 lb)		**46" Travel w/o Clamps** (68"H) Shpg Wt 99 lb (4-5K lb 40" Travel)	
Capacity Pounds / Kg.	Speed Range Inches / cm per min	Part Number *	Price	Part Number *	Price	Part Number *	Price
600 / 270	30.0-0.6 / 76.2-1.5	94 6M VD 3000-XX	$ 4845	94 6M RD 3000-XX	$ 5145	94 6M YD 3000-XX	$ 5545
1000 / 450	20.0-0.4 / 50.8-1.0	94 1K VD 2000-XX		94 1K RD 2000-XX		94 1K YD 2000-XX	
1500 / 675	12.0-0.3 / 30.5-0.8	94 1K VD 1200-XX		94 1K RD 1200-XX		94 1K YD 1200-XX	
2000 / 900	10.0-0.2 / 25.4-0.5	94 2K VD 1000-XX		94 2K RD 1000-XX		94 2K YD 1000-XX	
2000 / 900	8.0-.16 / 20.3-0.4	94 2K VD 0800-XX	$ 4845	94 2K RD 0800-XX	$ 5145	94 2K YD 0800-XX	$ 5545
2000 / 900	6.0-.12 / 15.2-0.3	94 2K VD 0600-XX		94 2K RD 0600-XX		94 2K YD 0600-XX	
2000 / 900	4.0-.08 / 10.2-0.2	94 2K VD 0400-XX		94 2K RD 0400-XX		94 2K YD 0400-XX	
2000 / 900	2.5-.05 / 6.4-.12	94 2K VD 0250-XX		94 2K RD 0250-XX		94 2K YD 0250-XX	
4000 / 1800	4.0-.08 / 10.2-0.2	94 4K VD 0400-XX	$ 5575	94 4K RD 0400-XX	$ 5875	94 4K YD 0400-XX	$ 6275
5000 / 2250	3.0-.06 / 7.6-.15	94 5K VD 0300-XX		94 5K RD 0300-XX		94 5K YD 0300-XX	
5000 / 2250	1.0-.04 / 2.5-.06	94 5K VD 0100-XX		94 5K RD 0100-XX		94 5K YD 0100-XX	
5000 / 2250	0.5-.02 / 1.3-.03	94 5K VD 0050-XX		94 5K RD 0050-XX		94 5K YD 0050-XX	
SAFETY GUARD protection from breaking samples		SGT 94V	$ 395.00	SGT 94R	$ 450.00	SGT 94Y	$ 625.00
DUST COVER guard against dirt and dust that could damage stand	For 1-2K lb testers	DCT 942	$ 105.00	DCT 942R	$ 125.00	DCT 94Y for all testers	$ 175.00
	For 4-5K lb testers	DCT 944	$ 125.00	DCT 944R	$ 140.00		



CAUTION Digital systems should only be operated in the mid 80% of the Load Cell range.

CAUTION Overforce protection of Load Cell may not respond fast enough to prevent damage when running the tester at very high speeds.

Extra Width and Travel Variable Speed Test Stands

46" Travel w/o Clamps (68"H x 12"D)		**12" Working Width** (24"W) Shpg Wt 320 lb (4-5K lb 40" Travel)		**18" Working Width** (24"W) Shpg Wt 380 lb (4-5K lb 40" Travel)	
Capacity Pounds / Kg.	Speed Range Inches / cm per min	Part Number *	Price	Part Number *	Price
600 / 270	30.0-0.6 / 76.2-1.5	94 6M BD 3000-XX	$ 6545	94 6M WD 3000-XX	$ 7545
1000 / 450	20.0-0.4 / 50.8-1.0	94 1K BD 2000-XX		94 1K WD 2000-XX	
1500 / 675	12.0-0.3 / 30.5-0.8	94 1K BD 1200-XX		94 1K WD 1200-XX	
2000 / 900	10.0-0.2 / 25.4-0.5	94 2K BD 1000-XX		94 2K WD 1000-XX	
2000 / 900	8.0-.16 / 20.3-0.4	94 2K BD 0800-XX	$ 6545	94 2K WD 0800-XX	$ 7545
2000 / 900	6.0-.12 / 15.2-0.3	94 2K BD 0600-XX		94 2K WD 0600-XX	
2000 / 900	4.0-.08 / 10.2-0.2	94 2K BD 0400-XX		94 2K WD 0400-XX	
2000 / 900	2.5-.05 / 6.4-.12	94 2K BD 0250-XX		94 2K WD 0250-XX	
4000 / 1800	4.0-.08 / 10.2-0.2	94 4K BD 0400-XX	$ 7675	94 4K WD 0400-XX	$ 8975
5000 / 2250	3.0-.06 / 7.6-.15	94 5K BD 0300-XX		94 5K WD 0300-XX	
5000 / 2250	1.0-.04 / 2.5-.06	94 5K BD 0100-XX		94 5K WD 0100-XX	
5000 / 2250	0.5-.02 / 1.3-.03	94 5K BD 0050-XX		94 5K WD 0050-XX	
SAFETY GUARD protection from breaking samples		SGT 94B	$ 750.00	SGT 94W	$ 900.00
DUST COVER guard against dirt and dust damage		DCT 94B	$ 300.00	DCT 94W	$ 400.00

VCO 0220 **220 Volt Option,** available on any Variable Speed Test System $ 320.00

When ordering test stands located on this sheet, use the following method. After selecting a test stand, choose the Digital Force System on the back which best fits your specific testing application. Insert the suffix code from the desired Digital Force System to the suffix of the desired test stand. For example: When ordering a 20 in/min Variable Speed Motorized Digital Tester with a 200 lb Digital Force System, use part number 942 KVD 2000-2M.

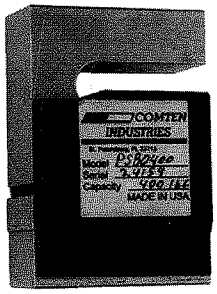
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DIGITAL DOCUMENTATION TEST SYSTEMS

Precision S-Block Load Cell for Digital Documentation Test Systems

Choose any of these Load Cells to accompany the Digital Documentation Test Systems listed below. These Load Cells have an accuracy of ±0.05% of Full Scale and Over Force Protection of 125% of Rated Capacity. Built-in identification electronics allows cells to be interchanged on the system without recalibration. The controller automatically switches between high and low range for best resolution. Shpg wt 4 lbs.



Part Number	Capacity lb (kg)	Resolution High / Low	System Accuracy	Price
PSB 0004-04	4 (1.8)	0.001	0.004 lb	$ 825.00
PSB 0010-10	10 (4.5)	0.01 / 0.001	0.01 lb	$ 725.00
PSB 0020-20	20 (9)	0.01 / 0.001	0.02 lb	$ 725.00
PSB 0040-40	40 (18)	0.01 / 0.001	0.04 lb	$ 725.00
PSB 0100-1M	100 (45)	0.1 / 0.01	0.1 lb	$ 725.00
PSB 0200-2M	200 (90)	0.1 / 0.01	0.2 lb	$ 725.00
PSB 0400-4M	400 (180)	0.1 / 0.01	0.4 lb	$ 725.00
PSB 0600-6M	600 (270)	0.1 / 0.01	0.6 lb	$ 725.00
PSB 1000-1K	1000 (450)	1 / 0.1	1.0 lb	$ 725.00
PSB 2000-2K	2000 (900)	1 / 0.1	2.0 lb	$ 725.00
PSB 4000-4K	4000 (1800)	1 / 0.1	4.0 lb	$ 925.00
PSB 5000-5K	5000 (2250)	1 / 0.1	5.0 lb	$ 925.00

CAUTION

Digital systems should only be operated in the mid 80% of the Load Cell range.

Overforce protection of Load Cell may not respond fast enough to prevent damage when running the tester at very high speeds.

Standard Width Variable Speed Test Systems

* Replace (-XX) in Part Number with the suffix code of desired S-Block Load Cell from above.

8" Working Width (12"W x 11"D)		20" Travel w/o Clamps (42"H) Shpg Wt 82 lb (4-5K lb models 98 lb)		30" Travel w/o Clamps (52"H) Shpg Wt 87 lb (4-5K lb models 103 lb)		46" Travel w/o Clamps (68"H) Shpg Wt 99 lb (4-5K lb 40" Travel)	
Capacity Pounds / Kg.	Speed Range Inches / cm per min	Part Number *	Price	Part Number *	Price	Part Number *	Price
600 / 270	30.0-0.6 / 76.2-1.5	94 6M VC 3000-XX	$ 6225	94 6M RC 3000-XX	$ 6525	94 6M YC 3000-XX	$ 6925
1000 / 450	20.0-0.4 / 50.8-1.0	94 1K VC 2000-XX		94 1K RC 2000-XX		94 1K YC 2000-XX	
1500 / 675	12.0-0.3 / 30.5-0.8	94 1K VC 1200-XX		94 1K RC 1200-XX		94 1K YC 1200-XX	
2000 / 900	10.0-0.2 / 25.4-0.5	94 2K VC 1000-XX		94 2K RC 1000-XX		94 2K YC 1000-XX	
2000 / 900	8.0-.16 / 20.3-0.4	94 2K VC 0800-XX	$ 6225	94 2K RC 0800-XX	$ 6525	94 2K YC 0800-XX	$ 6925
2000 / 900	6.0-.12 / 15.2-0.3	94 2K VC 0600-XX		94 2K RC 0600-XX		94 2K YC 0600-XX	
2000 / 900	4.0-.08 / 10.2-0.2	94 2K VC 0400-XX		94 2K RC 0400-XX		94 2K YC 0400-XX	
2000 / 900	2.5-.05 / 6.4-.12	94 2K VC 0250-XX		94 2K RC 0250-XX		94 2K YC 0250-XX	
4000 / 1800	4.0-.08 / 10.2-0.2	94 4K VC 0400-XX	$ 7025	94 4K RC 0400-XX	$ 7325	94 4K YC 0400-XX	$ 7725
5000 / 2250	3.0-.06 / 7.6-.15	94 5K VC 0300-XX		94 5K RC 0300-XX		94 5K YC 0300-XX	
5000 / 2250	1.0-.04 / 2.5-.06	94 5K VC 0100-XX		94 5K RC 0100-XX		94 5K YC 0100-XX	
5000 / 2250	0.5-.02 / 1.3-.03	94 5K VC 0050-XX		94 5K RC 0050-XX		94 5K YC 0050-XX	
SAFETY GUARD protection from breaking samples		SGT 94V	$ 395.00	SGT 94R	$ 450.00	SGT 94Y	$ 625.00
DUST COVER guard against dirt and dust that could damage stand	For 1-2K lb testers	DCT 942	$ 105.00	DCT 942R	$ 125.00	DCT 94Y for all testers	$ 175.00
	For 4-5K lb testers	DCT 944	$ 125.00	DCT 944R	$ 140.00		

Accessories

PDM 0190 Dot Matrix Printer
For printing of test results and reports. Includes cable. **$395.00**

VCO 0220 220 Volt Option
Convert to 220 Volt **$320.00**

DCP PDM Dust Cover
For Dot Matrix Printer **$ 70.00**

DCD DMC Dust Cover
For Digital Controller **$ 70.00**

EWC 0904006 Cables
Controller to RS-232 **$ 55.00**

EWC 2504006 Cables
Controller to Printer **$ 45.00**

Extra Width and Travel Variable Speed Test Systems

46" Travel w/o Clamps (68"H x 12"D)		12" Working Width (24"W) Shpg Wt 320 lb (4-5K lb 40" Travel)		18" Working Width (24"W) Shpg Wt 380 lb (4-5K lb 40" Travel)	
Capacity Pounds / Kg.	Speed Range Inches / cm per min	Part Number *	Price	Part Number *	Price
600 / 270	30.0-0.6 / 76.2-1.5	94 6M BC 3000-XX	$ 7950	94 6M WC 3000-XX	$ 8950
1000 / 450	20.0-0.4 / 50.8-1.0	94 1K BC 2000-XX		94 1K WC 2000-XX	
1500 / 675	12.0-0.3 / 30.5-0.8	94 1K BC 1200-XX		94 1K WC 1200-XX	
2000 / 900	10.0-0.2 / 25.4-0.5	94 2K BC 1000-XX		94 2K WC 1000-XX	
2000 / 900	8.0-.16 / 20.3-0.4	94 2K BC 0800-XX	$ 7950	94 2K WC 0800-XX	$ 8950
2000 / 900	6.0-.12 / 15.2-0.3	94 2K BC 0600-XX		94 2K WC 0600-XX	
2000 / 900	4.0-.08 / 10.2-0.2	94 2K BC 0400-XX		94 2K WC 0400-XX	
2000 / 900	2.5-.05 / 6.4-.12	94 2K BC 0250-XX		94 2K WC 0250-XX	
4000 / 1800	4.0-.08 / 10.2-0.2	94 4K BC 0400-XX	$ 9125	94 4K WC 0400-XX	$ 10425
5000 / 2250	3.0-.06 / 7.6-.15	94 5K BC 0300-XX		94 5K WC 0300-XX	
5000 / 2250	1.0-.04 / 2.5-.06	94 5K BC 0100-XX		94 5K WC 0100-XX	
5000 / 2250	0.5-.02 / 1.3-.03	94 5K BC 0050-XX		94 5K WC 0050-XX	
SAFETY GUARD protection from breaking samples		SGT 94B	$ 750.00	SGT 94W	$ 900.00
DUST COVER guard against dirt and dust damage		DCT 94B	$ 300.00	DCT 94W	$ 400.00

COMTEN - TEST ACQUISITION PACKAGE

Through the use of your personal computer, **C-TAP** will allow the user to control the Tensile Test Stand with ease. A graphical environment provides all the tools necessary for data acquisition, control, and analysis for physical testing. **C-TAP** creates intuitive, fully integrated, front panel controls on the PC. Using the popular Microsoft® Windows™ , the user can perform most ASTM, ISO, DIN and other standard or custom tests with just a click of the mouse.

Features:

Requires complete Digital Documentation Test System from above

- *Fully integrated material testing package*
- *Machine control capability*
- *Microsoft Windows Graphical User Interface (GUI) format*
- *Custom data presentation option*
- *National Instruments LabView/CVI quality data analysis software*
- *Ability to create custom test methods for specific applications*
- *Pre-programmed ASTM, ISO, DIN, and other standard tests*
- *Real-time test monitoring and interactive test control*
- *Extensive graphing and plotting capability*
- *Built-in formulas and test equations*
- *Custom or pre-programmed report generator*

LabWindows CVI

NATIONAL INSTRUMENTS®
The Software is the Instrument®

C-TAP Software Includes software, ASTM test of choice, cable and manual **$1495.00**

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DIGITAL DOCUMENTATION TEST SYSTEMS

COMTEN

COMPRESSION AND TENSILE TESTING MACHINES

SINCE 1960

NAFTA

Effective 3/1/97

PRICE SHEET

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Prices are subject to change without notice.

Most Equipment Shipped in 2 Weeks or less

The Digital Monitor Controller is the heart of Comten Industries Digital Documentation Test System. One push of a button will start and stop the test, return the test stand to its original position and print a report or graph with optional printer. It provides full control of the test stand and can eliminate the difficult and time consuming task of manually recording important test results.

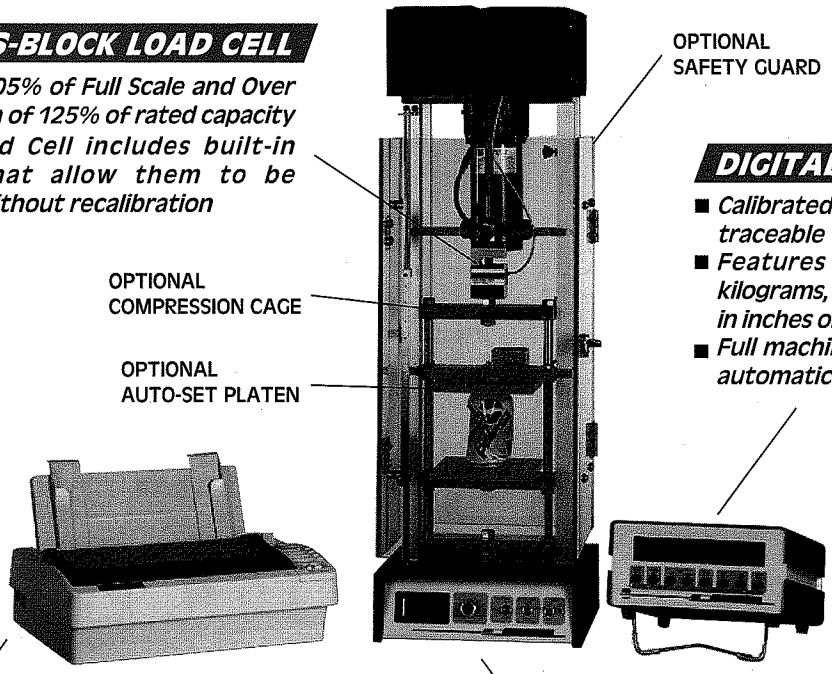
Features:

- *Perform ASTM test procedures - elasticity, rigidity, shear, tensile strength, compression, modulus of rupture, and many more*
- *Data acquisition software for SPC, ISO9000, and ASTM tests (optional)*
- *Controller can display continuous or maximum force & deflection or testing speed*
- *Tensile test stands convert to compression testing with optional compression cage*
- *Ideal for a wide variety of uses in quality control, production control and product design applications*
- *Calibrated & certified traceable to NIST standards and accurate to 0.1% of full scale*
- *Interchangeable Precision S-Block Load Cell provides highly accurate force measurements*
- *One push of a button will start and stop the test, return the test stand to its original position and print a report or graph with optional printer*
- *Optional Dust Cover and Lexan Safety Shield for increased life and safety*

A DIGITAL DOCUMENTATION TEST SYSTEM Includes

PRECISION S-BLOCK LOAD CELL

- *Accuracy to ±0.05% of Full Scale and Over*
- *Force Protection of 125% of rated capacity*
- *Choice of Load Cell includes built-in electronics that allow them to be interchanged without recalibration*



DIGITAL MONITOR CONTROLLER

- *Calibrated to ASTM standards and certified traceable to NIST*
- *Features Force/Peak force display in pounds, kilograms, or newtons and deflection or speed display in inches or millimeters and system accuracy of ±0.1%*
- *Full machine control with force and deflection limit automatic shutoff settings*
- *0-1 VDC analog (force) output port to drive an external chart recorder*
- *RS232 output for IBM compatible computer or serial printer (cables sold separately)*

OPTIONAL

DOT MATRIX PRINTER

- *Dot Matrix Printer with firmware provides for the automatic printing of reports and graphs and can eliminate the difficult and time-consuming task of recording important test results. Includes firmware, interface & cable.*

VARIABLE SPEED MOTORIZED TEST STANDS

- *Versatile: use to perform a wide variety of ASTM tests with capacities to 5000 LBS*
- *Variable speed test stands provide general purpose testing to ASTM procedures*
- *Strong 4 post box construction of anodized aluminum and zinc plated steel. Posts stand 8", 12" or 18" apart Vertical travel of either 20", 30", or 46" without fixtures*

When ordering Digital Documentation Test Systems located on this sheet, use the following method. After selecting a test system, choose an S-Block Load Cell on the back which best fits your specific testing application. Insert the suffix code from the desired Load Cell to the suffix of the desired test system. Example: When ordering a 10-0.2 in/min, 20" travel Variable Speed Test System with a 400 lb Load Cell, use part number 942 KVC 1000-4M.

For more information, call our applications department at 813-822-3508

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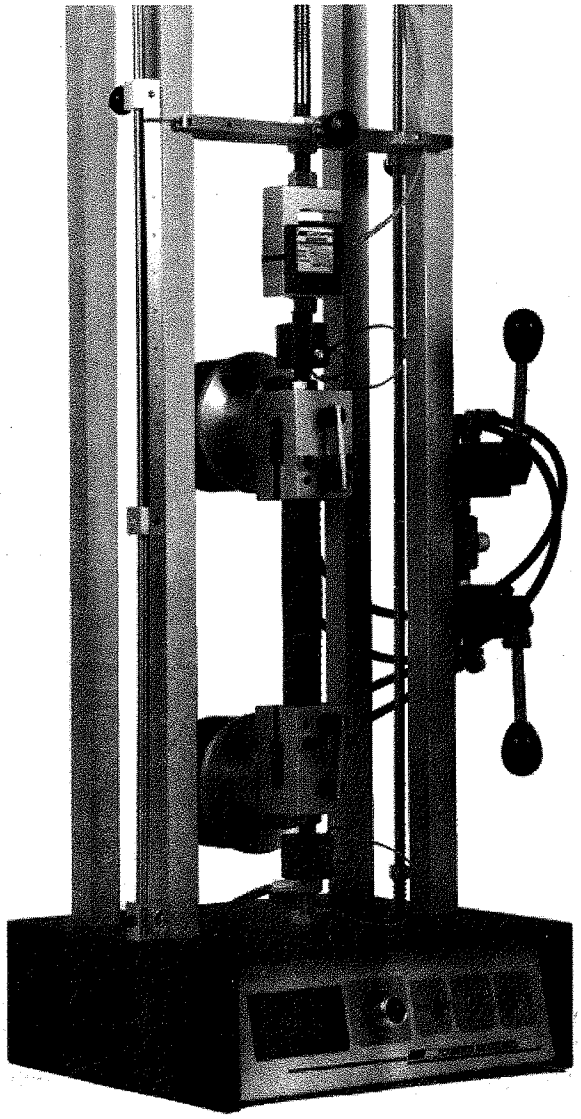
AIR OPERATED FABRIC CLAMPS

COMTEN NEW!

COMPRESSION AND TENSILE TESTING MACHINES

PRESENTING THE FUTURE IN CLAMPS!

COMTEN INDUSTRIES new line of Air Operated Fabric Clamps are ideal for applications where speed and consistency are a must. Continuous air pressure provides constant clamping force on the sample and side mounted air valves make placing and removing of samples quick and easy. Excellent for materials that tend to compress greatly and many ASTM fabric, tear, and rubber test standards.



For more information about COMTEN INDUSTRIES ***NEW*** Air Operated Fabric Clamps give us a call at **813-822-3508**.

FCA 2025 - 2" FABRIC AIR CLAMP *$1750.00*

Air operated open-side anvil clamps for fabric samples up to 2 inches wide and 1/4 inch thick. Constant air pressure continually compresses material in clamps to prevent slippage. Clamps have a capacity of 500 pounds and tare weight of 22 oz. Includes 2 inch wide x 1 inch high serrated steel anvils.

Optional Anvil Inserts for 2" Air Clamps:

FCM 2025 BP1 - 1 inch wide by 1 inch high steel serrated anvils.
FCM 2025 BR2 - 2 inch wide by 1 inch high rubber coated anvils.
FCM 2025 BR1 - 1 inch wide by 1 inch high rubber coated anvi

FCA 3037 - 3" FABRIC AIR CLAMP *$1950.00*

Air operated open-side anvil clamps for fabric samples up to 3 inches wide and 3/8 inch thick. Constant air pressure continually compresses material in clamps to prevent slippage. Clamps have a capacity of 2000 pounds and tare weight of 45 oz. Includes 3 inch wide by 2 inch high serrated steel anvils.

Optional Anvil Inserts for 3" Air Clamps:

FCM 3037 BP2 - 2 inch wide by 2 inch high steel serrated anvils.
FCM 3037 BP1 - 2 inch wide by 1 inch high steel serrated anvils.
FCM 3037 BR3 - 3 inch wide by 2 inch high rubber coated anvils.
FCM 3037 BR2 - 2 inch wide by 2 inch high rubber coated anvils.
FCM 3037 BR1 - 2 inch wide by 1 inch high rubber coated anvils.

ACV 2020 - AIR CONTROL VALVES *$ 725.00*

Hand operated air control valve. For operating one pair of air operated clamps. Air open and close. Includes mounting plate for attaching valve to the side of a COMTEN Testing Machine.

DELIVERY TIME FOR COMTEN AIR CLAMPS IS 6-8 WEEKS

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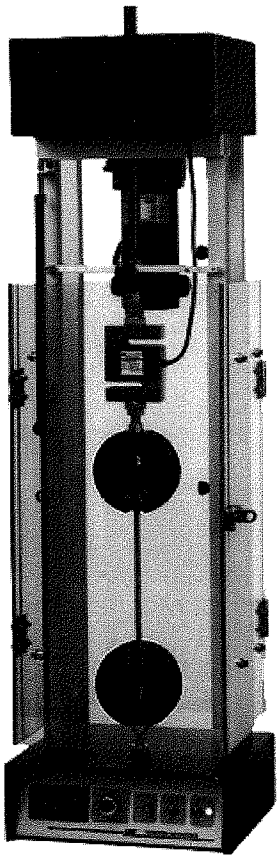
TEST STAND ACCESSORIES

COMTEN

COMPRESSION AND TENSILE TESTING MACHINES

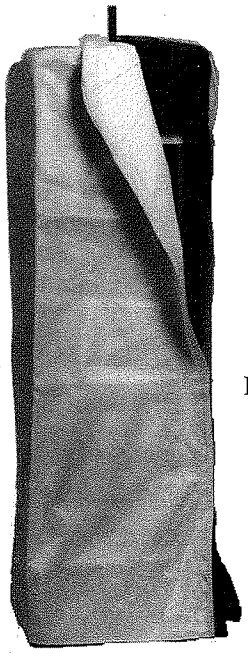
NEW!

DANGER! Testing in progress!

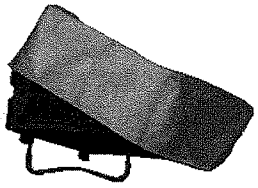


Prevent damage to equipment or injury to personnel with ***COMTEN INDUSTRIES*** newest testing accessory. This optional Lexan safety shield will help protect against breaking and shattering samples. Fragments from rupturing specimens can cause serious damage if not contained. Made out of heavy duty 1/4" thick Lexan, the shield features lift-off hinges both on the front and the back of the tester for easier access into the testing area. Locking closure prevents accidental disruption of sample during test. Shield is also ideal for lightweight testing of textiles where any unintentional movement of sample can severely affect test results. ***COMTEN INDUSTRIES*** optional Lexan safety shield is strongly suggested for anyone testing material that has the possibility of fragmentation upon rupture.

SGT 94V Safety Shield



DCT 94V & DCD DMC
Dust Covers



Don't let dirt ruin your investment!

COMTEN INDUSTRIES introduces new protective covers to provide lasting protection against sensitive equipment's deadliest enemy, **dirt**. Whether placed in the harsh environment of a production floor or subtle dust of a QA lab, these rugged vinyl and polyester covers will greatly increase the life and productivity of your testing equipment. Featuring reversible blue/white colors and full length Velcro closures, these practical covers keep your equipment looking good and functioning longer.

COMTEN INDUSTRIES

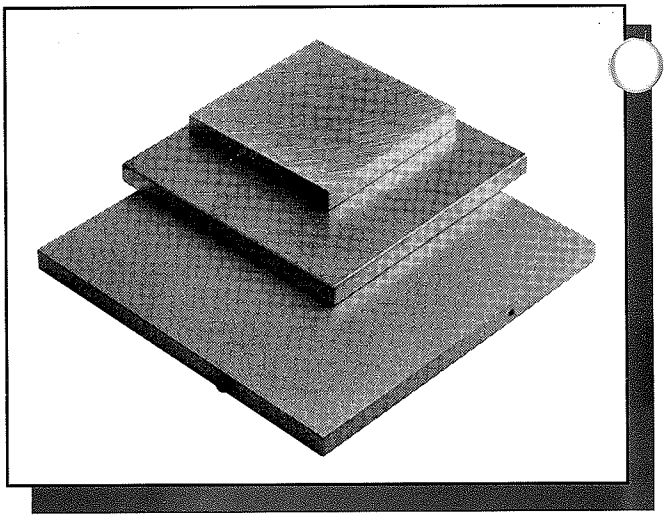
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ACCE0297

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COMPRESSION FIXTURES

COMPRESSION PLATENS



These Compression Platens are for use in a Compression Cage and will provide for testing of large objects.

ALUMINUM MANUAL PLATENS

Constructed of aluminum, milled flat, and anodized.

Part Number	Capacity	Sample Size	Tare Weight
PMA 0404 QS	4000 lb	4 in x 4 in	0.8 lb
PMA 0606 QS	2000 lb	6 in x 6 in	1.8 lb
PMA 0808 QS	1000 lb	8 in x 8 in	3.2 lb
PMA 1212	400 lb	12 in x 12 in	7.2 lb

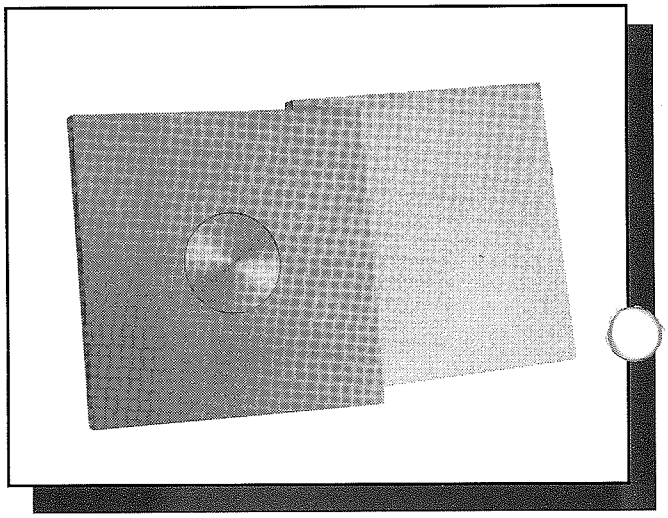
STEEL MANUAL PLATENS

Constructed of steel, ground flat, and plated.

Part Number	Capacity	Sample Size	Tare Weight
PMS 0404 QS	10,000 lb	4 in x 4 in	2.3 lb
PMS 0606 QS	5000 lb	6 in x 6 in	5.1 lb
PMS 0808 NS	5000 lb	8 in x 8 in	9.0 lb
PMS 1212	2000 lb	12 in x 12 in	20.4 lb

ALUMINUM AUTO-SET PLATENS

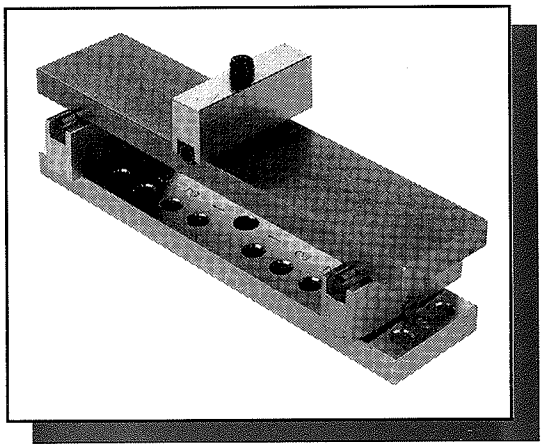
Constructed of aluminum, milled flat, and anodized. Equipped with a contact switch to detect when the sample has made contact with the platen. Ideal for testing bottles and foam. Can be used in many similar applications. Requires variable speed test stand.



Part Number	Capacity	Sample Size	Tare Weight
PAA 0404	4000 lb	4 in x 4 in	1.0 lb
PAA 0606 QS	2000 lb	6 in x 6 in	2.0 lb
PAA 0808 QS	1000 lb	8 in x 8 in	3.4 lb
PAA 1212 NS	400 lb	12 in x 12 in	7.4 lb

MODULUS OF RUPTURE

Adjustable rocking anvil fixture for Modulus of Rupture and transverse testing. Tare Weight is NOT applicable when using with 600 Series Compression Testers. All are adjustable in 1 inch intervals.



Part Number	Capacity	Sample Length	Anvil Width	Tare Weight
MOR 0100 NS	100 lb	2 in - 6 in	2 in	2.0 lb
MOR 0400 QS	400 lb	2 in - 8 in	4 in	2.0 lb
MOR 1000 NS	1000 lb	2 in - 8 in	4 in	2.0 lb
MOR 2000 QS	2000 lb	2 in - 8 in	4 in	2.0 lb
MOR 5000 QS	4000 lb	2 in - 8 in	4 in	2.0 lb
MOR 10K0	10,000 lb	2 in - 8 in	4.5 in	2.0 lb
MOR 20K0	20,000 lb	2 in - 8 in	4.5 in	15.0 lb

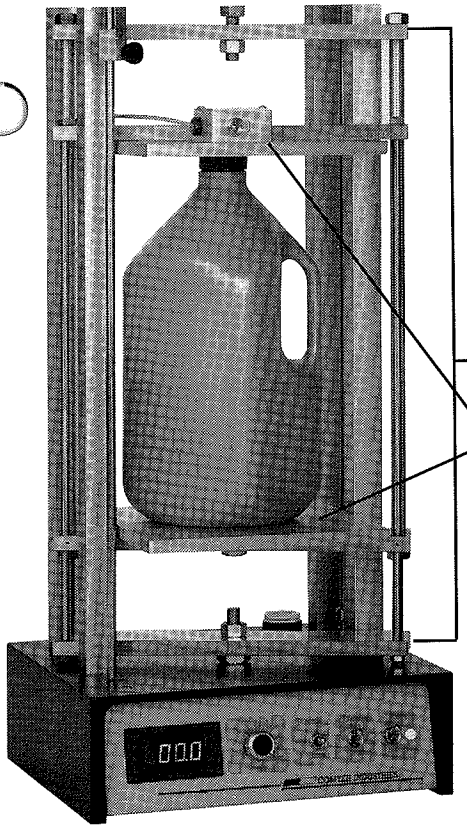
QS - *QUICK SHIP DELIVERY* NS - **NORMALLY STOCKED**

If you have any questions feel free to give one of our sales engineers a call at 813-822-3508.

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COMPRESSION FIXTURES



COMPRESSION CAGES

Use these Compression Cages to convert your test system for compression testing. Precision-made of aluminum and plated steel. Testing of bottles, gallon jugs, boxes, packaging, bricks, ceramics, as well as modulus of rupture tests can be accomplished with these cages. Cages include lift bar, compression-load bar, torque-load bar, and base fixture bar. Requires the use of Compression Platens or Modulus of Rupture fixture.

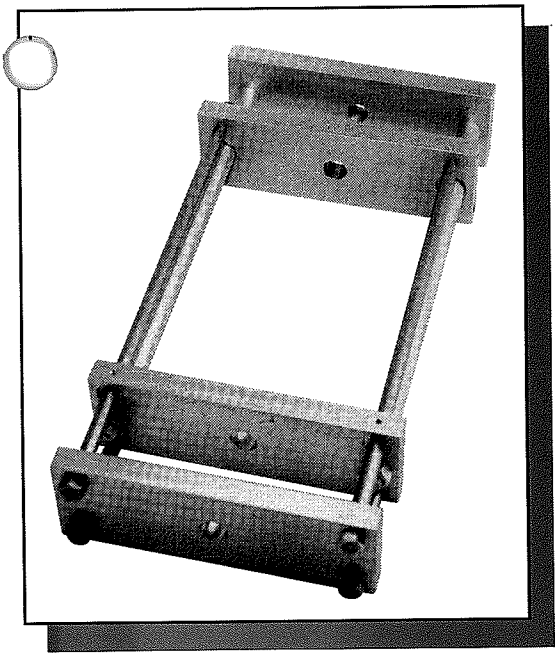
Care should be taken to assure that the total tare weight of the fixtures and the test specimen does not exceed 10% of the load cell capacity.

CAGES FOR 91 and 93 SERIES TESTERS

Part Number	Capacity	Sample Size	Min. Load Cell	Tare Weight
CCS 0404 QS	400 lb	4" Wide 7" High	10 lb	1.6 lb
CCS 1004 QS	1000 lb		40 lb	3.6 lb
CCS 2004 QS	2000 lb		60 lb	5.8 lb
CCS 4004 QS	4000 lb		100 lb	7.5 lb

CAGES FOR 92 and 94 SERIES TESTERS

Part Number	Capacity	Sample Size	Min. Load Cell	Tare Weight
CCS 0406 QS	400 lb	6" Wide 7" High	20 lb	3.6 lb
CCS 1006 QS	1000 lb		100 lb	7.9 lb
CCS 2006 QS	2000 lb		100 lb	10.3 lb
CCS 5006 QS	5000 lb		160 lb	12.6 lb
CCW 0408	400 lb	8" Wide 7" High	60 lb	5.6 lb
CCW 1008	1000 lb		160 lb	13.6 lb
CCW 2008	2000 lb		200 lb	16.7 lb
CCW 5008	5000 lb		200 lb	19.9 lb
CCT 0408[a] QS	400 lb	8" Wide 14" High	100 lb	6.4 lb
CCT 1008[a]	1000 lb		160 lb	14.3 lb
CCT 2008[a]	2000 lb		200 lb	17.5 lb
CCT 5008[a]	5000 lb		200 lb	20.7 lb
CCW 0412[b] NS	400 lb	12" Wide 20" High	100 lb	8.3 lb
CCW 1012[b]	1000 lb		300 lb	22.6 lb
CCW 2012[b]	2000 lb		300 lb	26.7 lb
CCW 5012[bc]	5000 lb		400 lb	34.8 lb



NOTE: When using S-Block Load Cells 40 pounds or less along with a Digital Monitor Controller and a Compression Cage, the low range must be disabled.

[a] Requires 94 RA or 94 RC Series Test Stands

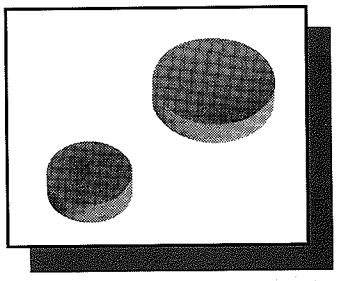
[b] Requires 94 BC Series Test Stands

[c] Requires PMS 1212 Steel Platen

HEAVY DUTY ROUND PLATENS

Part Number	Capacity	Diameter	Tare Weight
CFB 0150 NS	20,000 lb	1.5 in	0.4 lb
CFB 0250 QS		2.5 in	1.1 lb
CFB 0300 NS		3.0 in	2.2 lb

These platens can be used with either the 600 Series Compression Testers or a Compression Cage. They are heavy duty, hardened, ground and plated steel inscribed with concentric circles allowing for precise placement of sample.



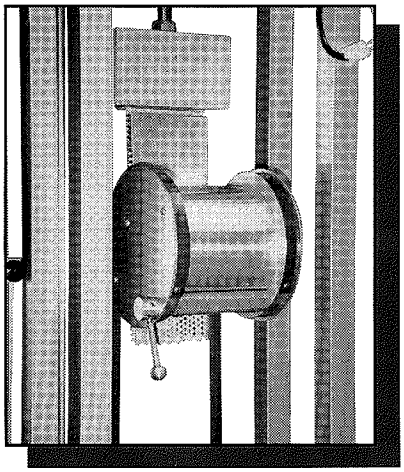
QS - QUICK SHIP DELIVERY NS - NORMALLY STOCKED

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CUSTOM & SPECIAL FIXTURES

In addition to the many stock and standard clamps offered, COMTEN makes many clamps that are not listed. We have designed and manufactured custom clamps and fixtures for everything from seatbelt retractors to wooden pencil leads. Send us a sample and we will select or design the best fixture for your needs.

Listed on this page are some examples of some non-stock and custom fixtures COMTEN has manufactured. If you have a special application or any questions regarding custom fixturing please contact one of our Sales Engineers.



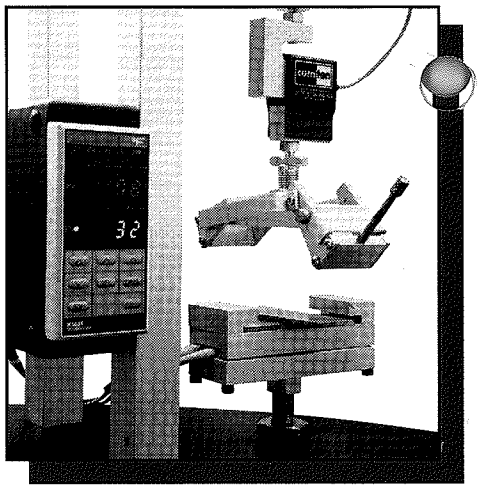
CDP 0435 - CLIMBING DRUM PEEL FIXTURE

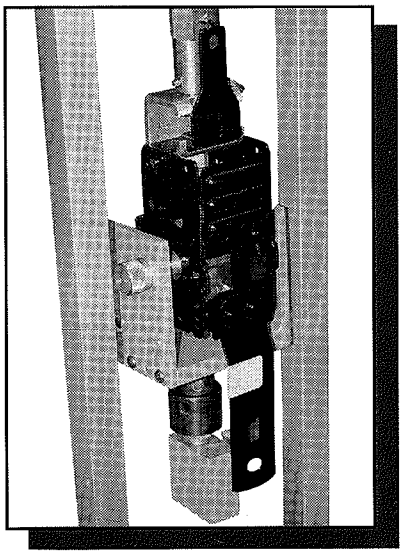
This fixture performs standard peal tests and is custom built to the customers material and test specifications. It checks the adhesion of bonded materials and composites. Accepts samples up to 3.5 inch wide and .125 inch thick. Requires machine travel of 24 inches. Use with either SCC 3037 or FCM 3037 upper grip.

Capacity: 400 lbs. Height: 5.0 in. Tare Weight: 50 oz. Quantity: Each

HEATED ADHESIVE TEST FIXTURE

This is a custom fixture that provides for testing an adhesive that bonds two metal plates. This can be either a single or double heating element and control. COMTEN can help solve your environmental needs with innovative fixture design or modification of our test stand to accommodate standard environmental chambers.





SEAT BELT RETRACTOR TESTING FIXTURE

This fixture was designed to test the strength of staked components on seat belt retractors. The unit can accommodate up to 12 different styles of retractors by varying the angle of the sample using precise pin location holes. This allowed the customer to test different retractor styles at will without having to change fixtures.

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