

## DIGITAL THERMOMETER

- Rugged design for field use - includes rubber holster
- Accurate to 0.3%
- °C/°F switchable
- Front panel offset adjustment to optimize accuracy
- Displays maximum reading plus data hold on large LCD display
- Includes 9V battery, holster with stand, wrist strap

### TEMPERATURE

**Range:** -50° to 1300°C / -58° to 2000°F  
**Accuracy:** 0.3% rdg + 1°C; > 1000°C - (0.5%)/0.3% rdg + 2°F  
**Resolution:** 0.1° or 1° (user selectable)  
**Dimensions:** 6.5 x 3.0 x 1.7" (165 x 76 x 43 mm including holster)  
**Weight:** 14.2 oz (403 g)



### MODEL NO. HN208 DELUXE

Complete digital thermometer kit includes model HX392 digital thermometer, air, surface and general purpose probe all in a hard carrying case for easy transportation.

Model No.	Description
HX392	Digital Thermometer, Type "K", Single Input
HN208	Thermometer Kit incl. air, surface and general purpose probes and case
HN215	5 point NIST Certificate

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### THERMOCOUPLE PROBES

Model No.	Description	Max. Temperature
HN209	Surface Probe	400°C
HN210	Spring-Loaded Surface Probe	500°C
HN211	Right-Angle Surface Probe	400°C
HN212	Air/Gas Probe	800°C
HN213	Needle Tip Probe	800°C
HN214	General Purpose Probe	700°C

## INFRARED THERMOMETERS

### MINI

- Unique flat surface and modern housing design
- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, auto data hold (when trigger released) and auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- User selectable °C or °F
- Carrying case and battery included

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### WIDE RANGE MINI

- Unique flat surface and modern housing design
- Wide temperature range from -50°C to 550°C
- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, autodata hold (when trigger released) and auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- User selectable °C or °F
- Carrying case and battery included

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### PROFESSIONAL HIGH TEMPERATURE

- Unique flat surface and modern housing design
- High-temperature range to 1382°F / 750°C
- Built-in laser pointer identifies target area
- 12:1 distance to spot ratio measures smaller surface areas at a greater distance
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, auto data hold (when trigger released) and auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- User selectable °C or °F
- Carrying case and battery included

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Model No.	HX242
Mfg. No.	ST-880
Measuring Range	-50°C to 280°C/-58°F to 536°F
Display	LCD Backlit
Response Time	< 1 Second
Emissivity	0.95 Fixed
Distance to Spot Size Ratio	8:1
Resolution	1°C/1°F
Dimensions	160 x 82 x 41 mm
Weight	177 grams

Model No.	HX243
Mfg. No.	ST-882
Measuring Range	-50°C to 550°C/-58°F to 1022°F
Display	LCD Backlit
Response Time	< 1 Second
Emissivity	0.95 Fixed
Distance to Spot Size Ratio	8:1
Resolution	0.1 °C up to 200 °C, 1°F over 200°F
Dimensions	160 x 82 x 41 mm
Weight	177 grams

Model No.	HX245
Mfg. No.	ST-8819
Measuring Range	-50°C to 750°C
Display	LCD Backlit
Response Time	< 1 Second
Emissivity	0.95 Fixed
Distance to Spot Size Ratio	12:1
Resolution	0.1°C up to 200°C, 1°F over 200°F
Dimensions	230 x 100 x 56 mm
Weight	290 g

8:1 field of view

8" distance	16" distance	32" distance
1" target	2" target	4" target
20cm:2.5cm	40cm:5cm	80cm:10cm

**LASER POINTER**  
For better aim of target area

### WIDE RANGER

From -58°F for freezers, and up to 1400°F for automotive and industrial applications

### DISTANCE TO TARGET RATIO

Defines the maximum spot size for measurements at a given distance.

## TRUE RMS AC/DC CLAMP METER

### WITH TEMPERATURE FUNCTION

- Measures both AC and DC current and voltage
- True RMS reading instrument permits precise measurements regardless of waveforms
- 4000-count digital display with 40-segment analog bargraph
- Audible continuity test and diode check
- Peak hold function
- Data hold function
- DCA zero function
- Low battery indication & auto power off
- Double molded housing
- Electronic overload protection
- Designed to meet IEC61010-1 Cat. III 600V

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## NON-CONTACT VOLTAGE DETECTOR AUTORANGING MULTIMETER

### WITH BUILT-IN FLASHLIGHT

- Autoranging multimeter
- Diode check and continuity test
- Flashlight • Auto power off
- Double molded housing and test leads
- EN61010-1 Cat. III, 1000V safety rating
- 0.2A/500V resettable fuse protection • 2000-count LCD

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**AC/DC voltage Range:** 600V  
**AC/DC Current Range:** 200mA  
**Resistance Range:** 20MΩ

Model No. IA050

Model No.	IA195
<b>AC Current Max. Range/Resolution:</b>	1000A/10mA
<b>Basic Accuracy:</b>	±2.5% rdg. ±5 dgt.
<b>DC Current Max. Range/Resolution:</b>	1000A/10mA
<b>Basic Accuracy:</b>	±3.0% rdg. ±4 dgt.
<b>AC Voltage Max. Range/Resolution:</b>	600V/0.1mV
<b>Basic Accuracy:</b>	±0.8% rdg. ±2 dgt.
<b>DC Voltage Max. Range/Resolution:</b>	600V/0.1mV
<b>Basic Accuracy:</b>	±1% rdg. ±4 dgt.
<b>Resistance Max. Range/Resolution:</b>	40MΩ<None>/0.1Ω
<b>Basic Accuracy:</b>	±1.0% rdg. ±4 dgt.
<b>CAPACITANCE Max. Range/Resolution:</b>	40µF/0.01nF
<b>Basic Accuracy:</b>	±3.0% rdg. ±5 dgt.
<b>FREQUENCY Max. Range/Resolution:</b>	10MHz/0.01MHz
<b>Basic Accuracy:</b>	±1.2% rdg. ±3 dgt.
<b>TEMPERATURE Max. Range/Resolution:</b>	1000°C (1832°F)/ 1°C(°F)
<b>Basic Accuracy:</b>	±3.0% rdg. ±5 dgt.
<b>Dimensions:</b>	229 H x 80 W x 49 D (mm)
<b>Weight:</b>	Approx. 303 g



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# INSTRUMENTS

## PHOTO CONTACT TACHOMETER

One meter provides precise RPM measurements with or without contact.

**Multi-Functional:** New patented design incorporates both a photo and contact tachometer into one precision instrument.

**Wide Measuring Range:** From 0.5 to 20,000 RPM in contact mode from 5 to 99,999 RPM in photo mode. Linear surface speed measurements are 0.2 to 6560 ft/min. or 0.05 to 1999.9 m/min.

**Memory Recall Button:** Automatically holds last reading for 5 minutes and recalls minimum and maximum readings.

**Microcomputer LSI Circuitry:** Provides accuracy to 0.05% and permits readings to a resolution of 0.1 RPM in either photo or contact mode.

**Accessories Included:** 3" wheel, 1 cone adaptor, 1 cone tip, 1 funnel cone, 1 funnel tip, one sheet of tabs, carrying case.

### SPECIFICATIONS:

#### READING RANGE:

**Photo Mode:** 5 to 99,999 RPM  
**Contact Mode:** 0.5 to 20,000 RPM  
**Surface Speed:** 0.05 to 1,999.9 RPM/0.2 to 6,560 FPM  
**Resolution:** 0.1 RPM < 999.9 RPM, 1 RPM > 1000 RPM;  
 0.1 MPM < 99.99 MPM; 0.1 FPM < 99.99 FPM,  
 1 FPM > 1000 FPM  
**Accuracy:** ±(0.5% + 1 digit)  
**Sampling Time:** Photo: 1 sec. > 6 RPM; Contact: 1 sec. > 60 RPM  
**Detecting Dist.:** 50 to 150 mm (2" to 6") typically; 300 mm (12") max.  
**Display:** 5 digit LCD 10 mm high  
**Power Supply:** (4) 1.5 V L AA batteries  
**Time Base:** Quartz Crystal  
**System Control:** Single chip micro computer LSI circuit  
**Operating Temp.:** 0° to 50°C  
**Dimensions:** 215 x 65 x 38 mm  
**Weight:** 300 g

**Model No. HF964** Mfg. No. K4010

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## SOUND LEVEL METER

- Dual range measurement (Hi/Lo)
- "A & C" frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- RS232 computer interface
- Data Hold, Max Hold functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes carrying case and battery

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### SPECIFICATIONS:

**Measuring Range:** Low: 35 to 100 dB;  
 High: 65 to 135 dB (A & C)  
**Resolution:** 0.1 dB  
**Accuracy:** ±1.5 dB  
**Frequency:** 31.5 Hz to 8 kHz  
**Time Weighting:** Fast/Slow (A & C)  
**Microphone:** 1/2" electret condenser  
**Power Supply:** 1 x 9V battery  
**Dimensions:** 210 x 55 x 32 mm  
**Weight:** 230 g

**Model No. HX387** Mfg No. ST-805



## PH PEN

- Dual displays of temperature and pH
- °F or °C temperature measurement
- Automatic temperature compensation assures that readings are corrected for temperature offsets
- Calibration up to 3 points (pH 4.00, 7.00, 10.00)
- Automatic buffer recognition
- No tools or trimmers needed for calibration
- Data hold
- 4-digit LCD readout
- Low battery indicator and auto power off after
- Detachable cap protects sensor
- Waterproof housing meets IP67 rating

### SPECIFICATIONS:

**Model No. IA439** Mfg No. 8681  
**pH Range:** 0 to 14 pH  
**pH Resolution:** 0.1 pH  
**pH Accuracy:** ±0.2 pH  
**Temp. Compensation:** 0 to 50°C  
**Temp. Accuracy:** ±1°C

**Model No. IA440** Mfg No. 8682  
**pH Range:** 0 to 14 pH  
**pH Resolution:** 0.01 pH  
**pH Accuracy:** ±0.05 pH  
**Temp. Compensation:** 0 to 50°C  
**Temp. Accuracy:** ±0.5°C

**Operating Conditions:** 0 to 50°C; 0 to 80% RH  
**Power Supply:** 2 LR44 button cell batteries  
**Dimensions:** 150 x 36 x 25 mm



## ILLUMINOMETERS

- Accurately displays light level in terms of Foot Candles (FC) or Lux, over a wide range
- Measures from 0 to 5000 FC in three ranges with a resolution from 0.1 FC and from zero to 50,000 Lux in three ranges from 1 Lux
- Large 0.5" LCD readout
- Automatic zero adjustment
- Sampling time of 0.4 second

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Model No.	Mfg. No.	Description
HF979	K7020	Illuminometer
HA292	1200C	Deluxe carrying case
HF211	CA-03	Vinyl carrying case



## ROTATING VANE THERMOANEMOMETER

- Designed to provide fast and accurate air velocity and temperature readings
- Separate rotating vane anemometer sensor
- Type K sensor for temperature measurements
- Large, 3-1/2 digit LCD readout
- Data hold and Max hold functions

### SPECIFICATIONS:

**Air Velocity Range:** 0.0 to 45.0 m/s;  
 0.0 to 140.0 kph; 0.0 to 88.0 knots  
**A/V Resolution:** 0.1 m/s; 0.1 kph; 0.1 knot  
**A/V Accuracy:** ±3%  
**Temperature Range:**  
 0 to 60.0°C; 32.0 to 140.0°F  
**Temp. Resolution:** 0.1°C; 0.1°F  
**Temp. Accuracy:** ±0.8°C; ±1.5°F  
**Dimensions:**  
 Meter: 150 x 72 x 35 mm;  
 Vane: 132 x 66 x 29 mm  
**Weight:** Meter: 210 g; Vane: 35 g

**Model No. IA196** Mfg No. ST-618

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## HYGROMETER-THERMOMETER

- Dual LCD readout shows ambient temperature and relative humidity
- Integral probe for convenient one-handed operation
- User selectable °F/°C
- Min/Max memory for both functions
- Data hold and relative functions
- Auto power-off
- Battery included

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### SPECIFICATIONS:

**Humidity Range:** 0 to 100% RH  
**Resolution:** 0.1% RH  
**Accuracy:** ±3% RH  
**Temperature Range:** -4 to 140°F (-20 to 60°C)  
**Resolution:** 0.1°F/°C  
**Accuracy:** ±1.6°F/0.8°C  
**Power Supply:** Single 9V battery  
**Dimensions:** 9.5 x 2.1 x 1.3" (240 x 54 x 34mm)  
**Weight:** 6.4 oz (180g)  
**Model No. IA441** Mfg No. C-315

### SOFT CARRYING CASE

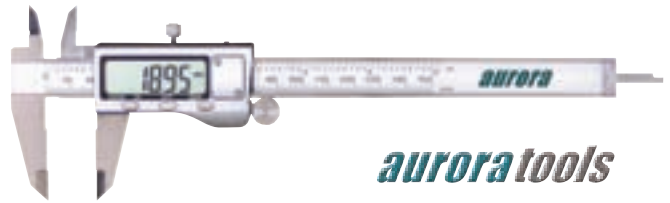
**Model No. HN416** Mfg No. CA-05A



# INSTRUMENTS & SCALES

## ALL STAINLESS STEEL ELECTRONIC DIGITAL CALIPERS

- Large LCD display provides easy-to-read numbers
- Precision adjustments for accurate measurements
- Hardened stainless steel head and body
- Lock screw to hold slide in position
- Linear accuracy: +/- .001" (.03 mm)
- Inch/millimeter conversion
- Zero at any position
- ON/OFF button
- Includes: Two 1.5V batteries, type LR44 and deluxe storage case with foam inserts

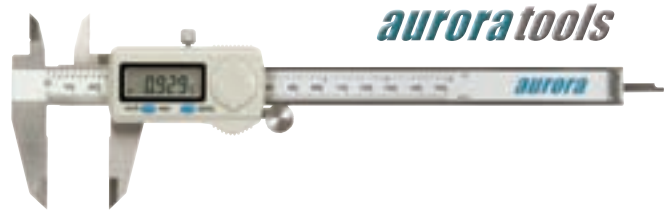


Model No.	Size	Measurement Range	Approximate Jaw Depth
TGZ370	6	0-6" (152 mm)	1-1/2" (38 mm) outside, 5/8" (16 mm) inside
TJZ861	8	0-8" (200 mm)	2" (50 mm) outside, 3/4" (19 mm) inside
THZ769	12	0-12" (305 mm)	2-7/8" (73 mm) outside, 7/8" (22.25 mm) inside

## 6" COOLANT PROOF ELECTRONIC DIGITAL CALIPER

- Resistant to dust, coolant liquids, oil and water spray
- Precision adjustments for accurate measurements
- Large Protective Lens LCD display provides easy-to-read numbers
- 0-6" (152 mm) measurement range
- ABS Plastic head and stainless steel body
- Lock screw to hold slide in position
- Linear accuracy: +/- .001" (.03 mm)
- Approximate jaw depth: 1-1/2" (38 mm) outside, 5/8" (16 mm) inside
- Inch/millimeter conversion
- Zero at any position
- Automatic shut OFF
- Includes two 1.5V batteries, type LR44 and a deluxe storage case with foam inserts

Model No. THZ768



## ELECTRONIC DIGITAL MICROMETER

- Large LCD display provides easy-to-read numbers
- Carbide tipped measurement surfaces
- Inch/millimeter conversion
- Thimble ratchet
- Accurate to 5 decimal places
- Linear accuracy: +/- .0001" (.003 mm)
- Zero at any position
- Lock screw to hold mechanism in position
- Automatic OFF button
- Includes: Calibration wrench, two 1.5V batteries, type LR44 and wooden storage case with foam insert



Model No.	Measurement Range	Resolution
IA388	0-1" (0-25 mm)	0.00005" (0.001 mm)

## CHAMP™ SQ MULTI-FUNCTIONAL INDUSTRIAL BENCH SCALES

- Capacities from 10 kg/25 lbs. to 250 kg/500 lbs.
- Stainless steel platter with painted steel frame
- RS232 interface standard with easy-to-read GMP data output: time, date, operator number, scale ID number, project number and name
- Weighing, parts counting, dynamic/animal weighing, percent weighing and checkweighing modes
- 2-line LCD display, Gross/Net/Tare function, auto-off timer, low battery warning, adjustable averaging and stability levels, retain zero data, auto-zero tracking, leveling feet and leveling bubble
- 2-year warranty on parts and labour



### LEGAL FOR TRADE

Model No.	Mfg. No.	Capacity lbs./kg	Graduation lbs./kg	Platform Size		
				W"	D"	H"
HM318	CQ10R33	25/10	0.001/0.0005	12 x 12	x 3.4	
HM319	CQ25R33	50/25	0.002/0.001	12 x 12	x 3.4	
HM320	CQ50L33	100/50	0.005/0.002	18 x 18	x 3.6	
HM321	CQ100L33	200/100	0.01/0.005	18 x 18	x 3.6	
HM323	CQ250XL33	500/250	0.02/0.01	24 x 24	x 5.8	

## DIGITAL COUNTING SCALE

- Used for counting and quality checking
- High accuracy load cell
- Long life rechargeable battery
- 1/30,000 counting resolution
- Tare function
- Quantity set alarm
- Resolution: 0.4 g
- Graduation: 1 g
- Capacity: 30 kg

Model No. HX133

NOT LEGAL FOR TRADE



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# SCALES

## LOW PROFILE BENCH SCALES

The **ES Series** design makes this low profile scale perfect for shipping, receiving and general bench applications. Easy two-button operation and large display guarantees accurate and unmistakable results. The 3-way mounting bracket (included) allows you to mount the indicator to front of scale base, above the base, or to any vertical surface.

- Display weight in kg, lbs, oz. or combined lb:oz\*
- Stainless steel weighing platform and epoxy painted steel frame
- AC or battery powered operation

5 year warranty on parts and labour.  
Includes 3-way mounting bracket and AC adapter.

Model No.	Mfg No.	Capacity lbs./kg/oz.	Readability lbs./g/oz.	Platform Size		
				L" x W" x H"		
HN272	ES30R	66/30/1056	0.05/10g/0.5	12.2 x 10.8 x 1.5		
HN273	ES50R	110/50/1760	0.05/20/1	12.2 x 10.8 x 1.5		
HN274	ES50L	110/50/1760	0.05/20/1	20.5 x 15.7 x 3		
HN275	ES100L	220/100/3520	0.01/50/2	20.5 x 15.7 x 3		
HN276*	ES200L	440/200/7040	0.02/100/5	20.5 x 15.7 x 3		

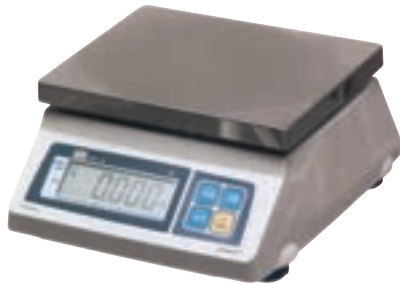
\* Lb:oz display not available on model HN276.



NOT LEGAL FOR TRADE



## ELECTRONIC DIGITAL WEIGHING SCALES



- Suitable for a wide range of applications
- Four weighing modes: g, kg, lbs. and oz.
- Removable stainless steel platform
- Large LCD display (15/16"/25 mm)
- Battery or AC adapter operated (included)
- ABS enclosure

K I L O T E C H

Model No.	Mfg.No.	Capacity	Graduation
<b>NOT LEGAL FOR TRADE</b>			
HX142	SW5	2 kg/5 lbs.	1 g/0.002 lbs.
HX143	SW10	5 kg/10 lbs.	2 g/0.005 lbs.
HX144	SW20	10 kg/20 lbs.	5 g/0.01 lbs.
HX145	SW50	20 kg/50 lbs.	10 g/0.02 lbs.
<b>LEGAL FOR TRADE</b>			
HX052	SW5	2 kg/5 lbs.	1 g/0.002 lbs.
HN278	SW10	5 kg/10 lbs.	2 g/0.005 lbs.
HN279	SW20	10 kg/20 lbs.	5 g/0.01 lbs.
HN280	SW50	20 kg/50 lbs.	10 g/0.02 lbs.



NOT LEGAL FOR TRADE

## PORTABLE ELECTRONIC BALANCES

The **Scout Pro** is a portable balance designed to meet the most common weighing requirements in the lab, on the production line, in the field or the classroom. Features a large LCD, removable stainless steel pan and simple two-button operation. Weight display in g, kg, oz., lb, lb:oz.; and Troy ounce or pennyweight weight units for weighing precious materials.

Powered by 4 AA batteries (not included) or included AC adapter pack.  
Dimensions: 6.0" W x 2.2" H x 6.3" D. Weight: 1.8 lbs.

### MULTIPLE WEIGHING MODES:

- Parts counting
- % weighing
- Display hold for shipping applications
- AC or battery power for portability

5 year warranty on parts and labour.

Model No.	Mfg. No.	Capacity (g)	Readability (g)	Pan Size
HX216	SP202	200	0.01	4.7" Diameter
HX218	SP401	400	0.1	4.7" Diameter
HM315	SP601	600	0.1	6.5" x 5.5"
HM065	76288-01	Security Device		
HM316	77256-01	Carrying Case		

## UTILITY SCALE

This general purpose, portable weighing scale can be used in shipping and receiving areas. The large dual dial is easy to read from either the top or side position. The memory lock lever will hold the reading when dial is obscured by an oversized package.

### NOT LEGAL FOR TRADE

Model No.	Mfg. No.	Cap.	x	Grad.	Dimensions		
					L"	x W"	x H"
HL933	P-250	250 lbs.	x	1 oz.	13 1/2	x 11	x 2 3/4
HX655	P114S	114 kg	x	0.5 kg	13 1/2	x 11	x 2 3/4





## COMPACT ELECTRONIC SCALES

Ohaus compact scales are ideal when cost matters and dependable results are a must — perfect for use in the field, kitchen, or office. One-button operation, full capacity tare, LCD display, and operates on 3 AAA batteries (included) or with an optional AC adapter. Perfect as a postal scale for small parcels and letters.

Dimensions: 5.3" W x 7.6" D x 1.5" H. Weight: 1 lbs.

AC Power adapter included.

### NOT LEGAL FOR TRADE

Model No.	Mfg. No.	Capacity	x	Readability
HN218	CS200	200 g	x 0.1 g	x 0 lbs. 7.05 oz x 0.01 oz
HN219	CS2000	2000 g	x 1.0 g	x 4 lbs. 6.55 oz x 0.05 oz
HN220	CS5000	5000 g	x 2.0 g	x 11 lbs. 0.4 oz x 0.1 oz
HL853	90524-66	Replacement AC Power Adapter		

Displays results in g or combined lb:oz.

Battery power or AC operation.

2 year warranty on parts and labour.



## PLATFORM SCALES

These heavy-duty platform scales have a cast iron construction finished with enamel paint. Models HL956 and HL960 are bench top units and HL963 and HL966 are portable. Rust-resistant brass beam with dual (kg/lbs.) reading.

AVAILABLE LEGAL FOR TRADE & NOT LEGAL FOR TRADE.

GOVERNMENT CERTIFIED.

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HL960



HL966

### LEGAL FOR TRADE

### NOT LEGAL FOR TRADE

Model No.	Model No.	Cap. kg/lbs.	Beam Graduation		Platform Size"	Wt. lbs.
			Metric	Imperial		
HL960	HX147	50/100	2 kg x 20 g	5 lbs. x 1 oz	12 x 16	65
HL956	HX146	100/200	5 kg x 50 g	10 lbs. x 1 oz	12 x 16	88
HL963	HX148	300/600	25 kg x 100 g	50 lbs. x 4 oz	16 1/2 x 24	242
HL966	HX149	500/1200	25 kg x 100 g	50 lbs. x 8 oz	23 1/2 x 25	396

## RECEIVING SCALES

These scales are heavy-duty, general purpose and are suitable for light industrial or shipping applications. The easy-to-read indicator is connected to the base by an 8' coiled cord that allows convenient remote placement. Large removable stainless steel platform allows for easy clean up. A keypad toggle allows easy kg/lb selection.

### FEATURES:

- Kg/lbs. modes
- Programmable Auto-Off function
- Heavy-duty 8' coiled cord
- Removable stainless steel platform, 11.75" L x 12.25" W
- Zero, Tare and kg/lb (toggle) keys
- 10 1/2" x 3 1/2" display
- Power supply: 6 AA alkaline batteries (not included) or 120 V AC adapter (included)
- One year warranty



HX632



HX633

### NOT LEGAL FOR TRADE

Model No.	Mfg. No.	Capacity x Graduations
HX632	KPS-50	110 lbs. x 0.1 lbs./50 kg x 0.05 kg
HX633	KPS-100	220 lbs. x 0.2 lbs./100 kg x 0.1 kg
PE111	KPS-180	400 lbs. x 0.2 lbs./180 kg x 100 g

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# PACKAGING SUPPLIES

## TEMFLEX™ 1700 ELECTRICAL TAPE

- General purpose, flexible vinyl tape
- Temperature rating: 176°F/80°C
- Dimensions: 3/4" x 60' (19 mm x 18.3 m)
- Thickness: 7 mil
- Colour: Black
- UL and CSA approved

**3M**



Model No.	Rolls/Case
PC695	100

## 3939 TARTAN™ SILVER DUCT TAPE

- Ideal for everyday sealing, holding, water-proofing, tabbing and mending
- 2" x 180', 48 mm x 55 m
- Colour: Silver/grey
- 24 rolls/case

Model No. PC419

**3M**



## 3M MULTI-PURPOSE DUCT TAPE

- Ideal for many duct and moisture sealing, holding, protecting and bundling applications
- Polyethylene coated cloth backing
- Rubber adhesive, high tack, easy tear
- 2" x 150' (48 mm x 45.7 m)
- 6-mil thick
- 24 rolls/case
- Colour: Silver

Model No. PE464

**3M**



## 3M MULTI-PURPOSE MASKING TAPE 199

- Utility purpose masking tape
- Ideal for holding, bundling, sealing, non-critical masking and a vast number of other jobs where a pressure sensitive tape is required
- Not recommended for paint applications
- Temperature rating: 220°F/105°C
- Thickness: 4.5 mils
- 180' (55 m) per roll

Model No.	Dimensions	Rolls/Case
PE113	12 mm (1/2")	72
PE114	72 mm (3")	12
PE115	96 mm (4")	8



**3M**

## HI-TACK 76 ADHESIVE

- Ideal for adhering paper, fabric, cork, foil, rubber and more
- Excellent when strength or high temperature resistance is needed
- 1" to 3" adjustable spray width
- Coverage: 100 sq.ft.
- 12/case, 24 oz.

Model No. PA002

**3M**



## SUPER 77 SPRAY ADHESIVE

- Ideal for permanently adhering lightweight materials to metal, wood and cardboard
- Two actuators: standard (round) and wide (fan) spray patterns
- High tack, fast drying
- Coverage: 163 sq.ft.
- 12/case, 24 oz.

Model No. PA003

**3M**



## HI-STRENGTH 90 ADHESIVE

- Ideal for adhering to particle board, polyethylene, polypropylene, rubber and wood
- 1" to 3" adjustable spray width
- 1 to 2 minute drying time
- Coverage: 100 sq.ft.
- 12/case, 24 oz.

Model No. PA001

**3M**



## 8934 TARTAN™ FILAMENT TAPE

- Ideal for light to medium duty strapping
- Abrasion and moisture resistant
- Allows printing and illustrations to be seen through tape
- 100 lbs. tensile strength

**3M**



Model No.	Dimensions	Rolls/Case
PC595	1/2" x 180', 12 mm x 55 m	72
PC596	3/4" x 180', 18 mm x 55 m	48
PC597	1" x 180', 24 mm x 55 m	36

## BOX SEALING TAPE

### 369 TARTAN™ GENERAL PURPOSE

- Offers good holding power for lightweight cartons

### 371 SCOTCH® INDUSTRIAL

- Known for its consistent adhesive
- Sticks instantly to any shape or surface

**3M**



Model No.	Dimensions	Total Thickness	Rolls/Case
<b>369 TARTAN™ GENERAL PURPOSE</b>			
PB883	2" x 328', 48 mm x 100 m	1.6 mil, 25 microns	36
PC881	2" x 432', 48 mm x 132 m	1.6 mil, 25 microns	36
PA586	2" x 2998', 48 mm x 914 m	1.6 mil, 25 microns	6
<b>371 SCOTCH® INDUSTRIAL</b>			
PB884	2" x 328', 48 mm x 100 m	2.0 mil, 30 microns	36
PA590	2" x 2998', 48 mm x 914 m	2.0 mil, 30 microns	6

## 203 HIGHLAND™ MASKING TAPE

- General purpose masking tape
- Ideal for holding, bundling and non-critical masking applications
- 55 m (180') per roll

Model No.	Dimensions	Rolls/Case
AMA015	12 mm (1/2")	72
PC049	18 mm (3/4")	48
PC050	24 mm (1")	36
PC051	36 mm (1 1/2")	24
PC052	48 mm (2")	24
PC588	72 mm (3")	12

**3M**



# CORRUGATED CARTONS

## TAPE DISPENSERS

- Industrial tape guns with adjustable brake
- Lets you choose the desired release tension



Model No.	Description
PA616	2" Standard duty
PB004	2" Heavy duty
PB005	3" Standard duty

## SURE TUCK™ MAILERS

- Reinforced corrugated mailers
- 200-lb test, B flute
- Quick-fold design assembles in seconds without tape, staples or glue
- White exterior; shipped and stored flat
- 50/bundle



Model No.	Inside Dimensions				
	L"	x	W"	x	D"
PA096	3	x	3	x	3
PA099	4	x	3	x	2
PA100	4	x	3	x	3
PA101	4	x	4	x	3
PA104	5	x	3	x	3
PA105	5	x	5	x	3
PA106	6	x	3	x	2
PA107	6	x	4	x	3
PA108	7	x	4	x	3
PA109	8	x	4	x	4
PA110	9	x	4	x	3
PA085	10	x	4	x	4

## PROTECTIVE LITERATURE MAILERS

- A secure way to send out computer printouts, catalogues, binders manuscripts and books
- Shipped flat; sets up in seconds without tape or staples
- 200-lb test, white corrugated
- 50 per bundle



Model No.	Inside Dimensions				
	L"	x	W"	x	D"
PA087	11 1/8	x	8 3/4	x	4
PA097	11 3/4	x	10 3/4	x	2 1/4
PA088	12 1/8	x	9 1/4	x	4
PA144	15 1/8	x	11 1/8	x	2
PA143	15 1/8	x	11 1/8	x	4

## CORRUGATED CARTONS

- 125 to 200 lbs. test cartons withstand rough handling during shipment
- Shipped flat to save storage space

Withstands rough handling during shipment



Model No.	Inside Dimensions				Test lbs.	
	L"	x	W"	x		D"
PA130	6	x	4	x	3	125C
PA136	6	x	6	x	6	125C
PA137	7	x	4	x	4	125C
PA138	8	x	6	x	4	125C
PA140	8	x	8	x	8	125C
PA141	9	x	6	x	6	125C
PA112	10	x	10	x	10	125C
PA113	11	x	10	x	3	125C
PA132	12	x	12	x	7	125C
PA114	12	x	12	x	12	125C
PA139	13	x	8	x	6.5	125C
PA115	13	x	10	x	10	125C
PA133	14	x	12	x	8	125C
PB501	14	x	14	x	14	175C
PA116	15	x	11	x	11	175C
PA117	16	x	12	x	10	175C
PA134	16	x	16	x	12	175C
PA118	16	x	16	x	16	175C
PA122	18	x	12	x	6	175C
PA123	18	x	12	x	9	175C
PA120	18	x	12	x	12	175C
PA121	18	x	15	x	10	175C
PA119	18	x	18	x	18	175C
PA126	20	x	20	x	20	175C
PA111	21	x	14.5	x	15	175C
PA127	21	x	15	x	11	175C
PA124	24	x	19	x	19	175C
PA125	21	x	20	x	16	200C
PA135	24	x	14	x	24	200C
PA129	24	x	19	x	24	200C
PA131	26	x	19	x	30	200C
PB502	26	x	26	x	26	200C
PB503	30	x	30	x	30	200C
PB504	36	x	36	x	36	200C

## PACKING LIST ENVELOPES

- Polyethylene envelopes are 100% waterproof and self-adhesive on any surface
- Won't peel off in transit
- Top loading style
- Once packing list is inserted in envelope, no dirt or moisture can penetrate
- Inside dimensions: 4 1/2" x 5 1/2"
- Wt. 7 lbs.
- 1000 per case



Model No.	Mfg. No.
AMB459	TC-1

# PACKAGING SUPPLIES

## POLYPROPYLENE STRAPPING SEALERS

- Heat treated steel construction for superior strength and durability
- Prevents strapping from loosening during transit
- Long 18" handle requires less effort

Model No.	Strap Width"
PA555	1/2
PA556	5/8



KLETON

## POLYPROPYLENE & POLYESTER STRAPPING TENSIONER

- Ideal for applications on flat surfaces
- Accepts strapping 3/8 - 3/4" wide
- Superior design and performance
- Premium copper bushings
- Built-in strapping cutter
- For use with open seals or buckles

Model No. PC939



KLETON

## STEEL & POLYSTRAP DISPENSERS

- Positive brake on reel prevents over-run tangled coils
- Basket
- Rubber wheels

For use with 16" x 3" or 16" x 6" POLY or STEEL coils. 54 lbs.

Model No. PA568



For use with 8" x 8" POLY coils. 34 lbs.

Model No. PA569

## SELF DISPENSING POLY STRAP CARTON WITH BUCKLES

- Hand strap large or small packages of all shapes
- Comes complete with polypropylene strapping and steel buckles



Model No.	Strap Width"	Strength/lbs.	Feet/ctn.	Buckles/ctn.
PA514	1/2	300	3300	200

## SAFETY CUTTERS FOR STEEL STRAPPING

### STANDARD-DUTY

- Cuts steel strapping 3/8-1 1/4" wide x .036" thick
- Safety design holds strapping in place to prevent injuries from flying ends
- Rubber pads gently release strapping when being cut

Model No. PC446



KLETON

### HEAVY-DUTY

- Cuts steel strapping 3/8-2" wide x .050" thick
- Powerful drop-forged steel design
- Heavy-duty performance for industrial applications
- 24" long

Model No. PC479



KLETON

## STEEL STRAPPING TENSIONERS

PA567



PC938



### PUSH BAR STYLE

- Ideal for applications on small, round or irregular surfaces
- Accepts steel strapping 3/8-1/2" wide x 0.020" thick
- Light tension
- Limited take-up
- For use with push type seals

### FEED-WHEEL STYLE

- Ideal for applications on flat surfaces
- Accepts steel strapping 3/8-3/4" wide x 0.035" thick
- Fast and easy operation
- Medium/heavy tension
- Unlimited take-up
- For use with open seals

KLETON

Model No.	Description	Strap Width"
PA567	Push Bar	3/8 to 1/2
PC938	Standard	3/8 to 3/4

## STEEL STRAPPING SEALERS

- For use with open seals
- Double notch creates a strong interlocking joint
- Heat-treated steel construction for added durability
- Ideal for use with feed-wheel style tensioners
- Ball handles provide a superior grip



KLETON

Model No.	Width"
PA550	1/2
PA562	5/8
PA551	3/4

# INDUSTRIAL MARKERS & PAINTSTICKS

## FOR COLD SURFACES

### B PAINTSTIKS



#### The Original ALL Purpose Cold Surface Markers -50° to 150°F

Real paint in stick form. Ideal for long-lasting, weather, fade and abrasion resistant identification. Leaves bright, highly visible marks on all materials, including asphalt, aluminum, glass, plastic, marble, lumber and steel. Writes on rough, smooth, oily, wet, dry, icy and rusty surfaces. 12 dozen/case.

Model No.	Colour	Model No.	Colour
PA298	White	PA352	Brown
PA320	Black	PA353	Grey
PA309	Yellow	PA301	Aluminum
PA348	Blue	PA355	Gold
NE264	Green		
PA300	Orange		
PA351	Purple		

### FAST DRY PAINTSTIKS



-50° to 150°F

Lets you mark on oily, wet or dry surfaces - in all kinds of weather - and handle the part immediately. Standard size 11/16". 6 dozen/case.

Model No.	Colour	Model No.	Colour
PA329	White	PA331	Red
PA330	Yellow	PA332	Black

### F PAINTSTIK FLUORESCENT MARKERS

-50° to 150°F

Super visibility markers have same properties and application as B markers. 6 dozen/case.

Model No.	Colour	Model No.	Colour
PA333	Yellow	PA336	Blue
PA334	Red	PA337	Green
PA335	Orange	PA338	Pink

### BALL PAINT MARKERS

-50° to 150°F

Produce long lasting, weather and water resistant fine line marks with real paint that dries in minutes. Writes like a pencil on metal, wood, plastics, rubber - any surface or material. Packaged in unbreakable 2-oz. plastic bottles with cap to prevent drying or leaking. 4 dozen/case.



Model No.	Colour	Model No.	Colour
PA339	White	PA345	Green
PA340	Yellow	PA343	Orange
PA341	Red	PA342	Black
PA344	Blue		

### B-L BLUE PAINTSTIKS

-50° to 150°F

Makes permanent marks that bleed through painted surfaces. Available in blue only. 12 dozen/case. **Model No. PA356**

## VALVE ACTION® PAINT MARKERS

A fast drying, lead free paint marker ideal for all surfaces. Weather and fade resistant. Replaceable fibre tip ensures full use of the marker. Marking range -50° to 150°F. 4 dozen/case.



Model No.	Colour	Model No.	Colour
PA418	White	PA419	Yellow
PA431	Black	PA423	Aluminum
PA420	Red	PA421	Blue
PA422	Green	PA424	Replacement Tips (12/pkg)

## PRO-LINE® FINE LINE

- High strength, lightweight barrel for industrial use
- Ideal for metal, suitable for wood, glad, plastic, rubber
- Xylene-free for less odour
- Self-storing cap with integrated pocket clip
- Ergonomic design for comfortable extended use



Model No.	Colour	Model No.	Colour
PC461	White	PC682	Red
PC462	Yellow	PC717	Blue
PC463	Black	PC718	Green
		PC719	Orange

## LUMBER CRAYONS

### HEX & MODIFIED HEX SHAPE

50° to 150°F



Weather and fade resistant lead-free marking. Use on cardboard, ceramics, concrete, lumber (rough or smooth), metal, plastics, rubber, shipping room, storage containers. Available as #200 (True hex) and #500 (Modified hex), as well as in some fluorescent colours!

Colour	#200 Model No.	#500 Model No.
White	PA367	PA357
Black	PA371	PA360
Yellow	PA368	PA358
Red	PA369	PA359
Blue	PA372	PA362
Green	PA373	PA363
Orange	PA370	PA361
Purple	PA375	PA365
Pink	PA374	PA364

## MARKAL® DURA-INK®



### #15 MARKERS

- Durable metal pocket clip holds marker firmly
- Improved industrial strength ink
- Ideal for fine line marking
- Tough tip, won't spread or mush
- Smear resistant, water resistant, fast drying
- Marks on all surfaces including paper, cardboard, metal, wood, plastic, glass, etc.
- 72 per case

Model No.	Colour
PB925	Black
PB926	Red
PB927	Blue
PB928	Green

## PRO-MAX® MARKERS

- Ideal for identification, fill-in marking, signage, safety marking on any surface
- Super-sized 1/2" nib for highly visible marks
- High-strength, lightweight barrel for industrial use
- Xylene-free for less odor
- Self-storing cap



Model No.	Colour	Model No.	Colour
PC683	White	PC686	Black
PC684	Yellow	PC715	Orange
PC685	Red	PC716	Blue

## SANFORD MARKERS

### SHARPIE MARKERS



Fine Point Marker. Extra tough tip that won't spread or mush. High visibility ink. 6 dozen/case.

Model No.	Colour	Model No.	Colour
PA393	Black	PA392	Red
PA395	Blue	PA391	Yellow
PA396	Green	PA394	Orange
PA397	Purple	PA398	Brown

# KNIVES & CUTTERS

## HEAVY-DUTY UTILITY KNIVES

**OLFA**



OLFA's heavy-duty knives are used in the warehouse, factory and office for cutting through cardboard, carpet, plywood and other thick materials such as styrofoam, rubber and leather. Features snap-off blades; just snap-off the dulled portion of the pre-scored mark and advance the blade one position to expose a new cutting edge.

Model No.	Mfg. No.	Description
PA227	L-1	Heavy-duty knife
PA246	SL-1	Economical cutter with positive locking mechanism
PA228	L-2	Heavy-duty knife with an ergonomically designed handle that features a rubber grip insert
PB861	NL-AL	Auto-lock heavy-duty <i>Hand Saver™</i> utility knife Cuts through leather, rubber sheets, cardboard, rope, paper, carpet, fibreglass, acetates
PC563	OLO-CACT	Carton cutter knife double protection system keeps the blade shielded whether or not in use
PB949	NA-1	Cushion grip cutter with auto-lock blade slide
PA190	180	Quality at an economical price. Features snap-off blades
PA224	H-1	Extra heavy-duty cutter with rubber grip insert
PB834	SK-4	Carton cutter knife with self-retracting blade for enhanced user safety

### REPLACEMENT BLADES

Model No.	Use With	Blades/Pkg.
PA238	All knives except PA190 and PA224	10
PA239	All knives except PA190 and PA224	50
PA199	PA190 and PB949	10
PA731	PA190 and PB949	50
PB835	PB834 only	10
VQ359	PA224 only	5
VQ360	PA224 only	20
PC544	PC563 only	50

## FLEX-GUARD™ SAFETY CUTTER

- Ideal for cutting through single-wall, double-wall and triple-wall corrugated boxes
- Featuring an automatic dual protection system
- Allows the user to keep their thumb on or off the blade slide, keeping hands safe from cuts and lacerations
- Blade guard is activated once the cut is started
- Uses rounded tip safety blades; helps to prevent puncture related injuries
- Blade extends 3/8" (10 mm) from cutter

**OLFA**



Model No. PC560  
Mfg. No. SK-6

### REPLACEMENT BLADES

Model No. PC561 - 10/pkg.  
Model No. PC562 - 50/pkg.

## INDUSTRIAL UTILITY KNIVES



These knives are used for cutting through materials like cardboard, paper, leather, wood, rubber and plastic. High quality steel blades have cutting edges that last longer than on most other knives. Blades are individually hardened, tempered and honed to perfection. Solid wood handles except where noted.

**Richard**

Model No.	Blade Description	Size"	Thickness"
PA229	Sharp point	4	0.050
PA230	Square point	3 1/4	0.050
PA231	Square point with guard	3 1/4	0.050
PA232	Square point, long blade	3 7/8	0.050
PA234	Heavy-duty square point, long blade	3 7/8	0.075
PA233	Heavy-duty square point w/guard, long blade	3 7/8	0.075
PA235	Tapered point	3	0.050
PA236	Bevel point	2 1/4	0.050
PA237	Heavy-duty bevel point	2 1/4	0.075
PA244	Rubber knife	4	0.050
PA245	Rubber knife	6	0.050
PA243	Roofing knife w/guard	3	
PA242	Roofing knife w/wood handle	3	
PA206	Linoleum knife, long point	2 1/2	0.075
PA207	Linoleum knife, junior	2 3/8	0.050
PA208	Linoleum knife, short point	2 1/2	0.075
PA211	Linoleum knife, short point	2 1/2	0.050
PA248	Utility knife, fixed blade w/5 spare blades		
PA254	Utility knife, retractable blade w/3 spare blades		
PA196	Carpet knife, plastic handle, retractable blade		

### REPLACEMENT BLADES

Model No.	Use With	Blades/Pkg.
PA249	PA248, PA254	5
PA733	PA248, PA254	100
PA252	PA248, PA254 (Hooked blades)	5
PA253	PA248, PA254 (Hooked blades)	100
PA193	PA196 (.015")	100
PA194	PA196 (.017")	100
PA192	Leather sheath for PA229 to PA237 knives	1