

KLEIN

February 2011

Chicago Grips



Power Engineering
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E3



KLEIN TOOLS

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Grips

CHICAGO GRIPS

Hamer Code	Klein Code	Cable Application	Jaw Shape	Cable Specifications		Max Safe Load (kg)
				External Ø	External Ø	
				Range (inches)	Range (mm)	
KE250	1656-20	Copper (stranded) or aluminum ACSR	○	0.20 - 0.40	5.08 - 10.16	2045
KE260	1656-30			0.31 - 0.53	7.87 - 13.46	2045
KE270	1656-40			0.53 - 0.74	13.46 - 18.80	3636
KE280	1656-50			0.74 - 0.86	18.80 - 21.84	3636
KE170	1613-40	Extra high-strength cables or guy strands	◇	0.12 - 0.37	3.05 - 9.40	2045
KE380	1684-5			0.22 - 0.55	5.54 - 13.97	3636
KE220	1628-16			0.31 - 0.62	7.87 - 15.75	6818
KE230	1628-17			0.50 - 0.75	12.70 - 19.05	6818
KE300	1659-20	PVC covered conductor	○	0.20 - 0.42	5.08 - 10.67	2045
KE330	1659-50			0.79 - 1.01	20.07 - 25.65	3636
KE160	1613-30	Small bare cables	△	0.08 - 0.2	2.03 - 5.08	680



PARALLEL JAW GRIPS

Hamer Code	Klein Code	Cable Application	Jaw Shape	Cable Specifications		Max Safe Load (kg)
				External Ø Range (inches)	External Ø Range (mm)	
KE395	1685-20	PVC covered or bare cable	○	0.16 - 0.87	4 - 22	2045
KE400 *	1685-31			0.63 - 1.26	16 - 32	3409

* Available on request only



HAVEN GRIPS *

Hamer Code	Klein Code	Cable Application	Cable Specifications		Max Safe Load (kg)
			External Ø Range (inches)	External Ø Range (mm)	
KE140	1604-20	Steel strand	0.13 - 0.50	3.18 - 12.70	2272
KE180	1625-20	Wire rope	0.28 - 0.75	7.11 - 19.05	3636

* Use where conductor damage is not a factor.



CABLE TENSIONING TOOLS

Hamer Code	Klein Code	Description
KE110	1702-20N	Howe wire tool
KE390	H1802-30S	Block & tackle (supplied with "259" swivel anchor hook, block with guarded snap hooks, 25" rope & block with guarded snap hook with eye for rope tie-off)
KE490	H1802-30S SR	Block & tackle (supplied with "259" swivel anchor hook, block with guarded snap hooks & block with guarded snap hook with 25" spliced rope attached to eye)



CABLE SOCKS

Hamer Code	Klein Code	Description	Cable Specifications	
			External	External
			Diameter (inches)	Diameter (mm)
KE450	KP-150-24	Cable sock - 24 inch	1.5 - 1.75	38.1 - 44.45
KE470	KP-200-36	Cable sock - 36 inch	2 - 2.5	50.8 - 63.5



TOOL POUCHES

Hamer Code	Klein Code	Description
KL4985	5178	8 pocket tool pouch made from soft, pliable white leather. Riveted and stitched for extra durability. Tunnel loop belt connection. Belt width 64mm, overall size 279mm x 254mm.
KL4990	5167	11 pocket tool pouch, made from soft, pliable leather. Moisture resistant, riveted and stitched. Slotted belt connection. Belt width 70mm, overall size 254 mm x 267mm.



FORGED STEEL GRIPS

Klein **Chicago**[®] and **Haven**[®] Grips are used to pull wire and cable, and to maintain temporary tension until the cable can be permanently terminated. These grips are not to be used as anchors.

Klein “Chicago” grips have locking loop handles, standard on most grips that allow the jaws to be held in an open position for easier placement on wire or cable. This saves substantial time, and makes grip positioning easier than with wedge or bolt-on designs. To lock, open the jaws and fold loop handle toward the side plates.

HOW TO SELECT THE PROPER GRIP

Three basic factors determine the selection of the proper grip for each specific application:

- Type of wire or cable.
- Outside diameter of wire or cable.
- Maximum safe load required.

Also the correct type of inside jaw contour should be considered. It is essential to select the correct gripping jaws to avoid damage to the wire or cable. When pulling stranded wire, the jaws should be long enough to take a full lay of cable to avoid damage to the conductor.

Inside-Jaw Contours: Each grip comes with one of three inside-jaw contours appropriate for the type of wire or cable to be worked.

Single V: Simple three-point contact jaws are designed for use on small-diameter bare wire and cable (solid stranded).

Double V: Four-point contact provides greater gripping pressure and assures proper alignment of wire and cable within the jaws. Designed for high-strength steel guy wire and messenger wire, and extra-high-strength cables and conductors.

Round: Round jaws provide maximum contact and gripping power to minimize conductor damage. This jaw design is recommended for use on bare aluminium, ACSR, and copper conductors.

REPAIR OR REPLACE?

Never repair any grip. Grip jaws can sometimes be replaced if the grip is returned to Klein, but structural wear or damage cannot be safely corrected. Grips that are bent, misaligned or otherwise distorted should be discarded and replaced.

Before each use, check all grips for jaw condition, proper alignment of jaws and all parts, and possible distortion caused by exceeding safe-load specifications. Grips should operate smoothly. Spring-loaded grips should lock open with loop handle in “Down” position and should close automatically with loop handle “Up”.

The Klein parallel jaw grip may be tested by opening and closing the jaws by hand, while exercising proper caution. All parts and rivets, which may be distorted due to exceeding safe load, should be checked.

RECOMMENDED CARE & MAINTENANCE

The following guidelines have been established in order to maintain all grips in good condition:

Clean the Grip Jaws

Use emery cloth or a clean wire brush to periodically clean the surfaces of grip jaws. (Note: Aluminium-strand conductors may have a die-grease coating, which can deposit on grip jaws. New aluminium conductors should be wiped clean before grip application. Grip jaws should be wiped clean of all grease before use.) Be sure to clean grip jaws before and after each use on wire or cable, which has been galvanized or otherwise coated.

Clean All Working Parts

Use Klein’s Cinch Cleaner/Degreaser Cat. No. 51101 to clean all joints and moving parts then apply Cinch Yellow No.51045.

Check All Parts

Look carefully for distortion or misalignment.

Never Repair Any Grip

If there is ever any question about the safe condition of any grip, please consult us directly. Please remember this rule.





