

INCH-POUND

MS90387H

30 January 2007

SUPERSEDING

MS90387G

28 March 1986

## DETAIL SPECIFICATION SHEET

### TOOL, HAND, ADJUSTABLE FOR PLASTIC AND METAL TIEDOWN STRAPS

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product specified herein shall consist of this specification sheet and MIL-DTL-81306.

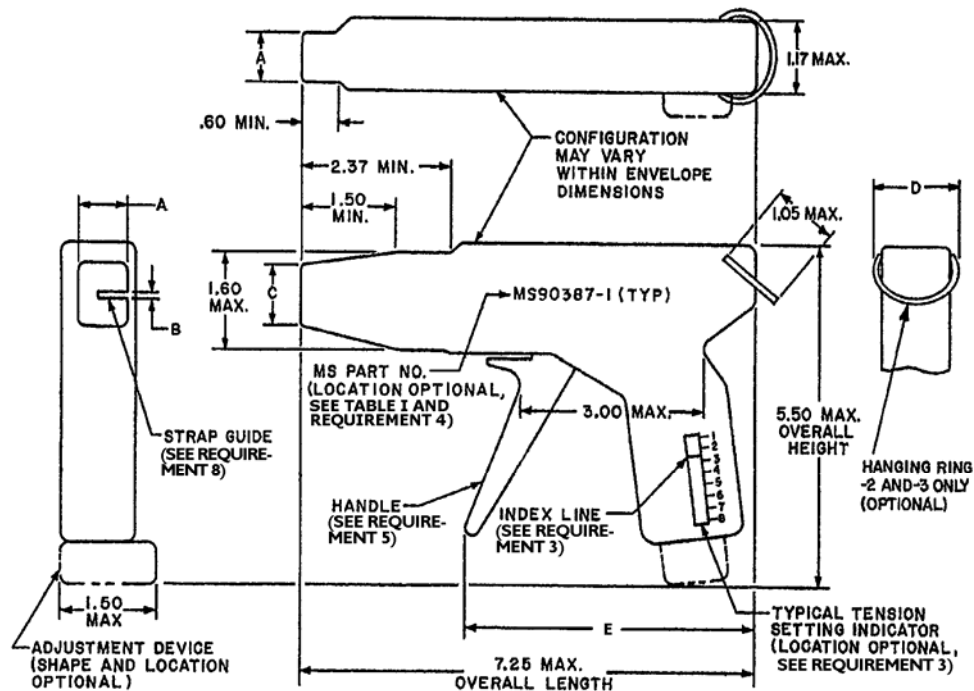


FIGURE 1. MS90387 Tool dimensions and configuration.

# MS90387H

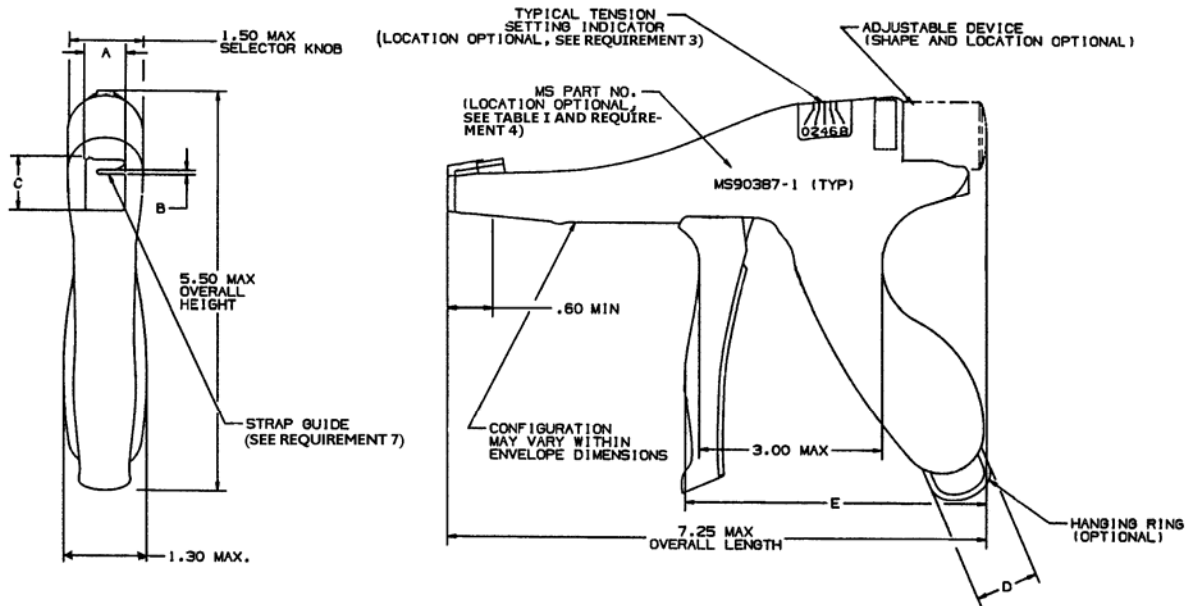


FIGURE 2. Ergonomic tool dimensions and configuration.

TABLE I. Figure 1 and 2 dimensions.

MS Part number	Figure	A Max	B Min	B Max	C Max	D Max 1/	E Max	Instruction field color
MS90387-1	1 or 2	.65	.055	.065	1.00	N/A	4.63	Black
MS90387-2	1 or 2	.85	.083	.090	1.34	1.20	4.63	Red
MS90387-3	1	1.16	.015	.045	1.48	1.20	4.63	Blue
MS90387-4	1	.85	.090	.100	1.34	1.20	4.63	Blue
MS90387-5	1	.65	.055	.065	1.00	N/A	3.00	Black

1/ N/A – Not applicable

TABLE II. Tool and plastic tiedown strap cross-reference.

Tool		Plastic Tiedown Strap Sizes		
MS part number	Tension setting range (see note 4)	MS part number	Strap identification code	Strap min tensile, pounds (reference)
MS90387-1 MS90387-5 (See note 4)	1-3	MS3367-4, -26 MS3368-5	Min (Miniature)	18
	3-5	MS3367-5, -27	Int. (Intermediate)	30
	6-8	MS3367-1, -2, -7, -23, -24, -29 MS3368-1, -2, -3, -4	Std (Standard)	50
MS90387-2	1-4	MS3367-1, -2, -7, -23, -24, -29 MS3368-1, -2, -3, -4	Std (Standard)	50
	5-8	MS3367-3, -6, -8 to -18, -25, -28	Hvy (Heavy)	120
MS90387-3	1-4	M23190/3-1 to /3-4	Std (Standard)	100
	5-8	M23190/3-5 to /3-9	Hvy (Heavy)	250
MS90387-4	1-4	MS3367-3, -6, -8, -18 to -25, -28	Hvy (Heavy)	120
	5-8	MS3367-19 to -22	EH (Extra heavy)	250

## REQUIREMENTS:

1. Finish: See MIL-DTL-81306.
2. Tools shall have no burrs, sharp edges or sharp corners.
3. The index line and eight tension station lines shall be clear and distinguishable. Increasing station line numbers shall represent increasing tension load (see note 2).
4. Instructions and part numbers shall have white or silver lettering on a field colored as specified in table I and shall be securely attached to the tool. Tension setting ranges correlated to the strap identification codes specified in table II shall be indicated on the tool (see note 3).
5. The handle shall be spring returned, shall facilitate grasping, and shall be colored same as the instructions field.

## MS90387H

6. The tool tension setting shall not change during consecutive operations.
7. The tool shall tension and automatically sever the strap without detriment to strap performance as specified by SAE-AS23190. The tool shall be designed to cut the strap parallel with the strap head.
8. The entry edge(s) of the strap guide shall permit easy entry of the strap.
9. MS90387 shall be the only tools to be procured and stocked for government use to install plastic and metal tiedown straps.
10. For design feature purposes, this specification sheet takes precedence over procurement documents referenced herein.
11. Referenced documents shall be the issue in effect on date of invitations for bids, or request for proposal, except that referenced adopted industry documents shall give the date of the issue adopted.

### NOTES:

1. All dimensions are in inches.
2. Additional information regarding increasing tension direction (such as indicating arrows) may be added at manufacturer's option.
3. The tension setting ranges are for typical wire bundle applications. Settings less or greater than the ranges specified may be necessary for special applications.
4. The compact tool - 5 is recommended for smaller handgrips.
5. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

MS90387H

CONCLUDING MATERIAL

Custodians:

Army - CR

Navy - AS

Air Force - 11

Preparing activity:

Navy - AS

(Project 5120-2006-003)

Review activities:

Navy - EC, OS, SH

Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.