1.0 Purpose:

Create Standard format of information in 2D barcode and human readable used for Means internal manufacturing process.

2.0 Scope:

All suppliers to Means where direct part marking is required. Direct Part Marking will be required whenever traceability is required.

3.0 Responsibilities:

Supplier to Means must have equipment in place for 100% verification to this spec.

4.0 Definitions (Reference Figure 1):

4.1 DPM = Direct Part Marking

4.2 Human Readable = (For this spec), English Characters

5.0 Engineering Method:

5.1 2D information and formatting

5.1.1 2D Datamatrix code is included at minimum if traceability is needed.

5.1.2 See MEM-007 spec for standard barcode sizes.

5.1.3 Parts requiring traceability will at minimum have 2D datamatrix code with the following information from the supplier.

5.1.3.3 Part Number including Revision

5.1.3.4 Unique Serial Number

5.1.4 Format will be "(P)PPPPPPPPRRRR(S)YYJJJNNNNN(E)" where

"PPPPPPPP" = Part Number (30 character limit), "R" = Revision (10 character limit), "YY" = 2 digit Year, "JJJ" = Julian Date, "NNNNN" (Unique Serial Number, request would be the amount of parts created starting at midnight), "(E)" = End of character (optional)

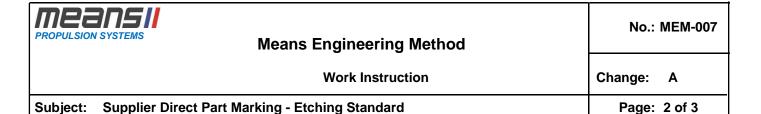**Example for the first part made on the 75th day of 2020.**

"(P)P17524A(S)2007500001"

NOTE: *Parenthesis must be included in mark!*

5.1.5 Means or Supplier can add Extra Information including the following…

(K) = Purchase Order Number, (1T) = Lot / Heat Number, (Q) = Quantity, (3S) = Container label, (4S) = Master Label, (5S) = Dual Parts Label, (V) = Supplier

Number, (2Q) = Actual Weight, (1Q) = Theoretical Weight, (T) = Tool, (C) = Cavity, (M) = Machine, (HU) = Means Internal
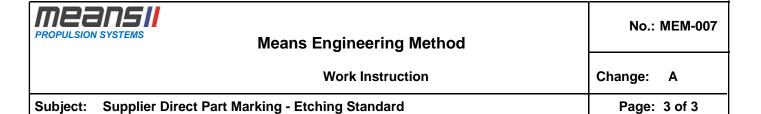
(These identifiers should all correspond to Means Shipping Label Specification v8 maintained by IT Apps group)

5.1.6 Supplier will be responsible to keeping record agreed upon for each part number / serial number combination with agreed upon process information for each batch / lot.

5.1.7 No Scribing / Etching / Marking / Finishing anywhere other than areas agreed upon and included in print.

5.2 Human Readable Formatting.

5.2.1 3mm height text if possible

5.2.2 Text should be near 2D code if possible and needed.

5.2.3 Font is OCR-A or Arial

5.2.4 2mm vertical spacing if multiple lines are needed if possible.

5.2.5 See Table 1 for standard part mark parameters and include in part print with desired values if different than standard.

Table 1

Marking Requirement	Requirement	Description
Type of Marking Required	Laser/Peen/Rolled/ Stamped	
2D Datamatrix Required	Yes	
Human Readable Required	Yes	
Record Length	7 years past life of program	
Extra Information on Barcode		
Extra Information on Human readable	NA	
Human Readable Text Height	3mm	
Human Readable Font	OCR-A	
Datamatrix Box size	10mm	x-dimension 0.5mm
Datamatrix grid	20dot x 20dot	x-dimension 0.5mm
Datamatrix Color	Normal	Black dots on white background
Datamatrix Grading	MEM-006	Means Supplier DPM Grading Standard
Dot Peen Standard Included Angle	120deg	

6.0 References:

Form Approval: J. Jurek	Date: 11 Feb 00	Revision:
Form Originator: J. Jurek	Date: 11 Feb 00	
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6.1   MEM-006 (Means Engineering Method DPM Grading Requirements)

7.0 Approvals:

8.0 Revision Record:

WO#	ECR	ERN	Rev	Revision Change Description	Chgd	Appr	Date
none	01385	00757	A	Initial release	E. Klassen	T. Samyn	08/24/20

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