

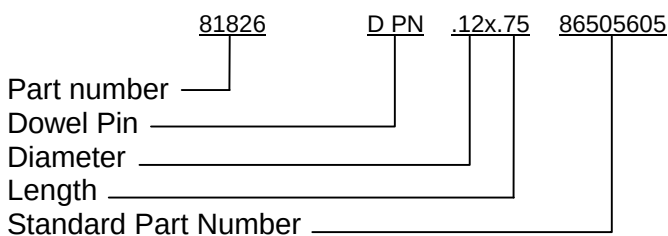
Dowel Pins, Hardened**1. SCOPE**

1.1 The fasteners defined by this specification are hardened dowel pins.

1.2 The dowel pins are intended for use where strength, shock, or wear factors indicate a hardened pin.

2. DESIGNATION

2.1 Typical call-out on a drawing shall be:



NOTE: The above typical description is required for use in all company-wide computer generated documents. The description on hand drawn assembly drawings should follow the same practice.

2.2 Table 2 contains the preferred part numbers to be used in future designs. Table 3 lists the non-preferred part numbers which should be avoided in future designs.

2.3 When requesting a new part number, refer to the instructions in standard 86505922 (FNHA-3-A-005.00).

3. RELATED SPECIFICATIONS**3.1 REFERENCE STANDARDS**

86505922 (FNHA-3-A-005.00)—Assignment of Standard Part Numbers
 86508246 (FNHA-3-B-048.02)—Dimensioning Dowel Pin Holes
 ANSI/ASME B18.8.2—Taper Pins, Dowel Pins, Grooved Pins, and Straight Pins (Inch Series)

3.2 This standard replaces the following company standards:

New Holland	NA2.04.7
Versatile	1-A-039

4. REQUIREMENTS**4.1 MATERIAL**

4.1.1 Hardened and ground dowel pins shall be made from carbon steel or alloy steel capable of being heat treated to a core hardness of Rockwell C50. The maximum limits for sulphur and phosphorus content are 0.05%, and 0.04%, respectively.

4.2 PLATING

Dowel pins shall be furnished with ground (as processed) finish with rust preventive oil or with black oxide coating at the option of the manufacturer.

					NAME	STD DOWEL PIN HT		
ALL	F	BJF	116564	19SEP01				
ALL	E	BJF	110171	6/97	 NEW HOLLAND	ENGINEERING SPECIFICATION		
1	D	BJF	108673	12/96				
ALL	C	BJF	108139	7/96				
ALL	B	MI	106814	8/95				
ALL	A	RE	104739	1/95				
FRAME NO.	REV	BY	ECN NO.	DATE	THE INFORMATION HEREON IS THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF NEW HOLLAND N. V. AND/OR ITS SUBSIDIARIES. ANY USE, EXCEPT THAT FOR WHICH IT MAY BE LOANED, IS PROHIBITED.	FRAME 1	OF 4	
APP.	DRAWN	MGI	5/95			PART NUMBER		
KHH 6/95	CHECKED							

4.3 MECHANICAL REQUIREMENTS

Nominal Diameter(D)	Minimum Case Depth	Surface Hardness Rockwell	Core Hardness Rockwell		Min. Single Shear Strength
Inches	Inches	Min.	Min.	Max.	Psi
$D \leq 5/32$	.010	60C	47C	58C	130000
$D \geq 3/16$	.015	60C	47C	58C	130000

4.4 MECHANICAL DIMENSIONS

The general dimensions shall meet the requirements in Table 1.

4.5 SURFACE FINISH

The surface finish on hardened ground machine dowel pins shall not exceed 8 microinches on the effective length prior to plating.

5. SUPPLIER RESPONSIBILITY

5.1 Suppliers shall perform the necessary test for sample approval for initial lots. After this approval, suppliers are not required to perform the specific tests, but ascertain that their product will conform to the specification limits. These specified requirements will be used to reconcile any disputed values.

5.2 All materials supplied to this specification shall be equivalent in all characteristics to the material upon which approval was originally granted. Prior to making of any changes in the properties, composition, construction, color, dimensions, processing or labeling of the material originally approved under this specification, the supplier shall notify purchasing and the affected standardization engineering activity of the proposed changes and obtain the written acknowledgement of the standardization engineering activity. Test data, test samples and a new identification code are to be submitted with the request.

	NAME				PART NUMBER	
	STD DOWEL PIN HT				86505605	
ENGINEERING SPECIFICATION		REV. F	FRAME 2	OF 4		

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