

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS S-J-2.201-GS/PL
		Former Designation: ESP-J-2.201-GS
TITLE: Unhardened Dowel Pins – English Series (Noun Code 6200)	CURRENT REV No.: 1506	DATE: June 2015
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: ESP-J-2.201-GS - April 2013
PRINTED COPIES OF THIS DOCUMENT MUST BE VERIFIED FOR CURRENT REVISION		
<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		
Change Notice: Changed to New MPAPS format; Combined GS, NPP.		

- 1.0 MATERIAL:** Steel (STL), Cold Drawn, 0-115 per MPAPS A-0 Part II
Brass (BRS) per CEMS C-3.
- 2.0 FINISH:** As designated by part number, pins shall be furnished plain or plated in accordance with MPAPS and class listed below:
Plain (PLN)
Zinc Trivalent (ZN6A) – MPAPS G-20, Class 6A.
- 3.0 RESTRICTED CHEMICAL SUBSTANCES:** Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.
- 4.0 POLICY FOR SELECTING PARTS FOR NEW DESIGN:** (For alignments applications only.)
Approved parts are so designated to reduce variety of parts and assure maximum availability, interchangeability, and cost savings in volume buying.

For new design, parts shall be selected from "Approved" part list only.

Finish: Plain or Zinc Trivalent

Material: Steel

Lengths: See Chart Below

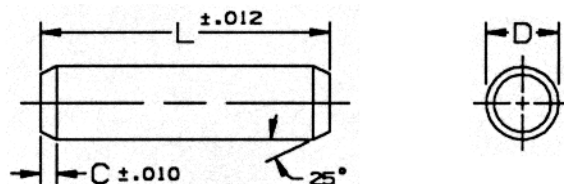
Nom Dia	Lengths																			
	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	3-3/4	4	4-1/2	5	5-1/2	6
1/8																				
3/16																				
1/4																				
5/16																				
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5.0 DIMENSIONS:



Dimensions in inches:

Nominal Diameter	Diameter D		Chamfer C	Nominal Diameter	Diameter D		Chamfer C
	Max	Min			Max	Min	
.062	.0600	.0595	.015	.375	.3717	.3712	.030
.094	.0912	.0907	.015	.438	.4341	.4336	.030
.109	.1068	.1063	.015	.500	.4964	.4959	.030
.125	.1223	.1218	.015	.625	.6211	.6206	.045
.156	.1535	.1530	.015	.750	.7458	.7453	.045
.188	.1847	.1842	.015	.875	.8705	.8700	.060
.219	.2159	.2154	.015	1.000	.9952	.9947	.060
.250	.2470	.2465	.015				
.312	.3094	.3089	.030				

Maximum diameters are graduated from .0005 on .062 inch pins to .0028 on 1 inch pins under the minimum commercial bar stock sizes.

6.0 DEFECTS: Pins must be free from burrs, loose scale, sharp edges and all other defects that might affect their serviceability.

7.0 PART LIST:

7.1 Approved:

Nominal Size	Length	Finish	Material	Part Number
3/16	.438	PLN	STL	141150
7/16	.750	PLN	STL	141260
5/8	.875	PLN	STL	443848

8.0 TECHNICAL INFORMATION:

For further information related to the technical content of this specification, contact:	Suppliers may purchase controlled copies of this specification by contacting:
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