

PRODUCT ADVISORY

KEEPING YOU INFORMED OF PRODUCT CHANGES

To: All Encoder Customers, Sales Representatives, and Distributors
Date: October 1, 2010
Subject: 62S Dome Change

As a part of Grayhill's continual product enhancement, Grayhill is changing the push button dome used in the standard 62S product line with 510g and 950g trip force specifications.

The current dome is rated at 400 ± 30 grams trip force with a return force of 170 ± 30 grams outside of the switch. Grayhill engineering has been working with the dome vendor and has developed a new dome with a higher return force. The new dome is still rated at 400 ± 30 grams trip force but the return force is increased to 200 ± 40 grams outside of the switch. The new dome will meet the same 62S push button specification of 510 grams, but will have better Haptics (feel) with a tactile ratio of 50%, versus the previous dome's ratio of 64%.

To implement these changes, the bill of material for the standard code housing sub-assembly will be updated immediately. No top level bill of material will have to change and no prints will need to be changed.

If you wish not to be included in the product enhancement, please contact Grayhill and a custom code housing will be created to retain the current dome.

Trip and return force capability studies are shown on pages 3 and 4.
The current dome part number is 613202-400HRC, see page 3.
The new dome part number is 623219-400FC, see page 4.



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Affected Part Numbers:

62SXX-X5-X	62SY11083	62SY18012	62SY22054	62SY22105
62SXX-X9-X	62SY11086	62SY18014	62SY22056	62SY22106
62SY11002	62SY11088	62SY18019	62SY22060	62SY22107
62SY11006	62SY11089	62SY18020	62SY22062	62SY22108
62SY11011	62SY11090	62SY18021	62SY22064	62SY22110
62SY11012	62SY11091	62SY22003	62SY22065	62SY22112
62SY11017	62SY11092	62SY22007	62SY22066	62SY22113
62SY11018	62SY11095	62SY22012	62SY22067	62SY22114
62SY11019	62SY11096	62SY22013	62SY22069	62SY22116
62SY11021	62SY15005	62SY22020	62SY22076	62SY22117
62SY11022	62SY15010	62SY22022	62SY22078	62SY30004
62SY11023	62SY15020	62SY22026	62SY22079	62SY30008
62SY11025	62SY15027	62SY22027	62SY22083	62SY45004
62SY11028	62SY15029	62SY22029	62SY22084	62SY45005
62SY11045	62SY15030	62SY22033	62SY22085	62HSY18001
62SY11046	62SY15031	62SY22035	62SY22086	62HSY22007
62SY11052	62SY15033	62SY22037	62SY22091	62HSY22020
62SY11059	62SY15034	62SY22038	62SY22093	
62SY11060	62SY15035	62SY22041	62SY22094	
62SY11062	62SY15036	62SY22044	62SY22095	
62SY11063	62SY18002	62SY22046	62SY22097	
62SY11065	62SY18007	62SY22047	62SY22099	
62SY11066	62SY18008	62SY22051	62SY22100	
62SY11068	62SY18010	62SY22052	62SY22101	
62SY11082	62SY18011	62SY22053	62SY22102	

Required Action

Please advise the appropriate Engineering, Manufacturing and Procurement personnel within your organization of this change. For further information, please contact your local sales representative or call Grayhill directly at (708) 354-1040.



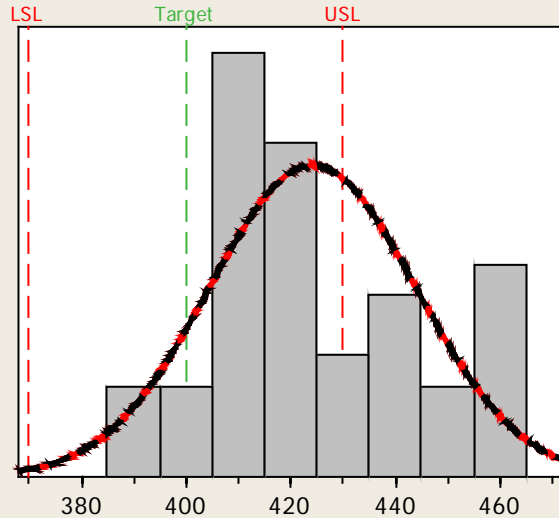
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613202-400HRC Trip Force Capability Study

Process Data	
LSL	370
Target	400
USL	430
Sample Mean	424.235
Sample N	51
StDev (Within)	19.8205
StDev (Overall)	19.8205



— Within
— Overall

Potential (Within) Capability

Cp 0.50
CPL 0.91
CPU 0.10
Cpk 0.10

Overall Capability

Pp 0.50
PPL 0.91
PPU 0.10
Ppk 0.10
Cpm 0.32

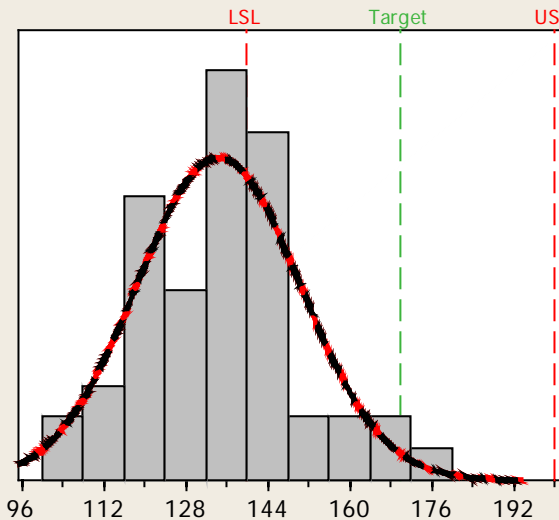
Observed Performance	
PPM < LSL	0.00
PPM > USL	313725.49
PPM Total	313725.49

Exp. Within Performance	
PPM < LSL	3106.50
PPM > USL	385584.69
PPM Total	388691.19

Exp. Overall Performance	
PPM < LSL	3106.50
PPM > USL	385584.69
PPM Total	388691.19

613202-400HRC Release Force Capability Study

Process Data	
LSL	140
Target	170
USL	200
Sample Mean	134.49
Sample N	51
StDev (Within)	15.9241
StDev (Overall)	15.9241



— Within
— Overall

Potential (Within) Capability

Cp 0.63
CPL -0.12
CPU 1.37
Cpk -0.12

Overall Capability

Pp 0.63
PPL -0.12
PPU 1.37
Ppk -0.12
Cpm 0.26

Observed Performance	
PPM < LSL	647058.82
PPM > USL	0.00
PPM Total	647058.82

Exp. Within Performance	
PPM < LSL	635329.95
PPM > USL	19.45
PPM Total	635349.40

Exp. Overall Performance	
PPM < LSL	635329.95
PPM > USL	19.45
PPM Total	635349.40



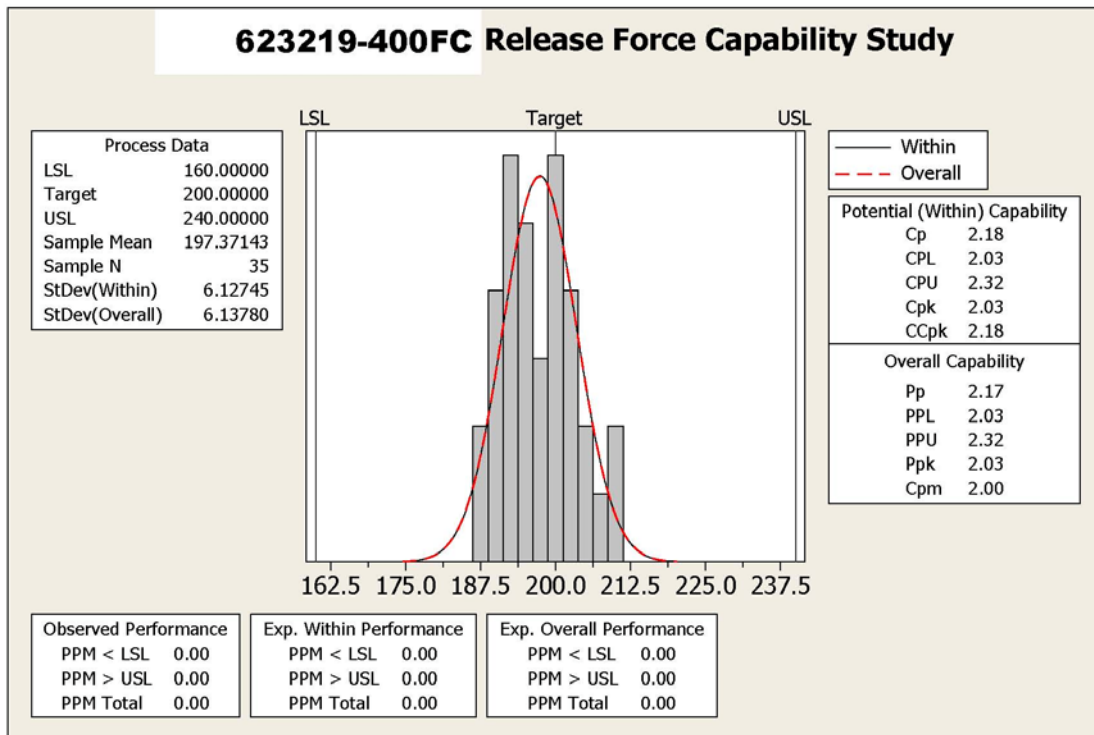
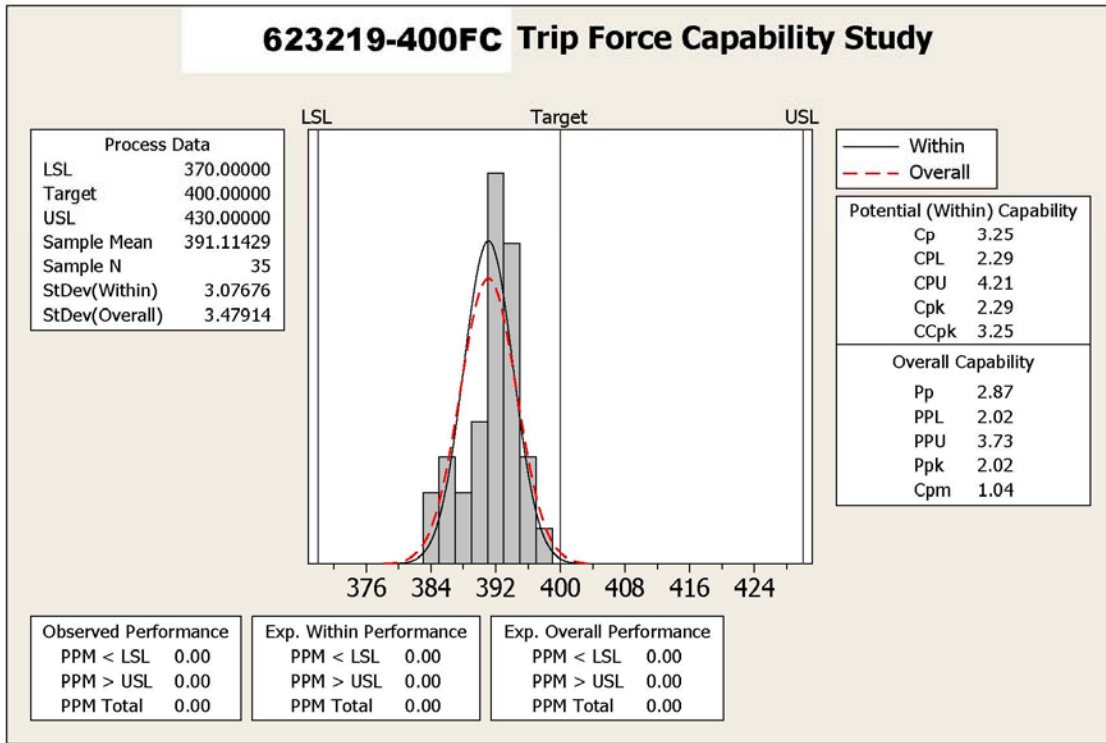
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