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All Dimension is in mm



Note:

- a. $\beta = 15^\circ$ to 30°
- b. Point shall be chamfered on for threads < M4 may be as-rolled (sheared end) in accordance with ISO 4753.
- c. Incomplete thread $\mu < 2P$.
- d. Reference datum for d_w .
- e. Maximum underhead fillet.



Hex Bolt DIN EN 14399-4 M-42x220

'X' Enlarge View

Parameters	Symbol	Minimum	Maximum
Raw material diameter	D	42.50	43.50
Head thickness	k	24.95	27.05
Width A/F	s	68.10	70.00
Width A/C	e	76.95	-
Shank diameter	ds	41.00	43.00
Major diameter	D	41.44	41.94
Pitch diameter	D1	38.78	39.01
Minor diameter	D2	-	37.07
Threading length	(b)	74.00	82.50
Shank length	ls	132.50	-
Total Shank length	lg	-	146.00
Total length of bolt	l	217.70	222.30
da	da	-	48.00
dw	dw	64.70	-
Radius of fillet	r	2.50	-
c	c	0.50	1.00
Chamfer	b	0.00	9.00
Amendment			
Details	Revision No.	Dated	Authorised by

Drawing No.- KE-BASE-1133-00056-14399.4-898.1-10.9-42x220		
Dimension as per	DIN EN 14399-4	
Mechanical properties as per	ISO 898-1	
Grade	10.9	
Size	42x220	
Pitch	4.50	
Title	Hex Bolt	Status- Approved
Dated	18.04.2018	Proj.
Mass/Weight	3.094 kg/piece	
 Drawn By Pankaj Kumar (Ass. QC Manager)	 Checked By Santosh Kumar (Plant Head-GM)	 Approved By Kapil Aggarwal CEO-MD
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