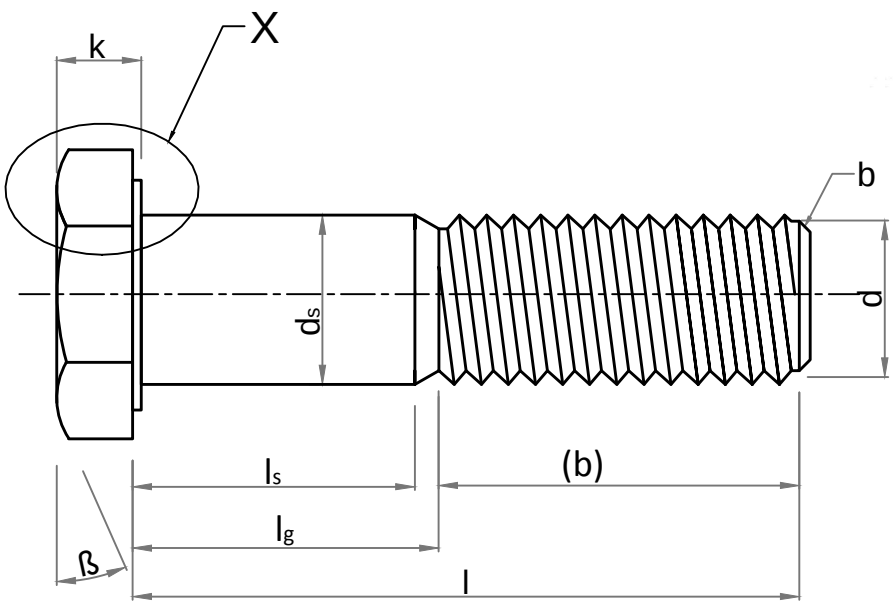
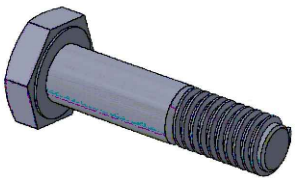
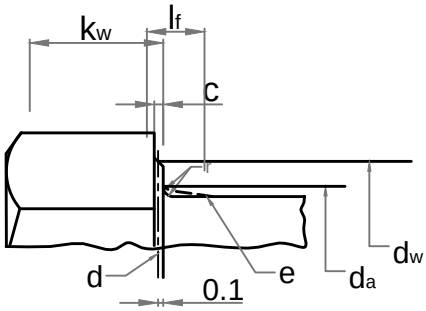
Note: This Drawing is the property of Kapil Enterprises-Kundli, and must not be copied or reproduced without permission or Written authorisation by Kapil Enterprises-Kundli

All Dimension is in mm





Note:
a. ß= 15° 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 μ ⩽ 2P.
d. Reference datum for d_w.
e. Maximum underhead fillet.



'X' Enlarge View

Hex Bolt DIN EN 14399-4 M-45x180

Parameters	Symbol	Minimum	Maximum
Raw material diameter	D	45.50	46.50
Head thickness	k	26.95	29.05
Width A/F	s	73.10	75.00
Width A/C	e	82.60	-
Shank diameter	ds	44.00	46.00
Major diameter	D	44.44	44.94
Pitch diameter	D1	41.78	42.01
Minor diameter	D2	-	40.07
Threading length	(b)	76.00	84.50
Shank length	ls	90.50	-
Total Shank length	lg	-	104.00
Total length of bolt	l	178.00	182.00
da	da	-	52.00
dw	dw	69.45	-
Radius of fillet	r	3.00	-
c	c	0.50	1.00
Chamfer	b	0.00	9.00

Amendment			
Details	Revision No.	Dated	Authorised by

Drawing No.-		
KE-BASE-1133-00066-14399.4-898.1-10.9-45x180		
Dimension as per		DIN EN 14399-4
Mechanical properties as per		ISO 898-1
Grade		10.9
Size		45x180
Pitch		4.50
Title	Hex Bolt	Status- **Approved**
Dated	18.04.2018	Proj.
Mass/Weight	3.135 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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