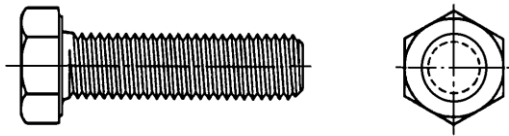


REFERENCE DOCUMENTS

CNH STPA020	Fastener Finishes and Material Specifications
CNH STPB640	Hex Metric Coarse Class 10.9 PHC
ISO 4014	Hexagon head bolts – Product grades A and B
ISO 4017	Hexagon head bolts – Product grades A and B Full Thread
ISO 888	Bolts screws and studs – Nominal lengths and thread lengths for general purpose bolts
ISO 898-1	Mechanical properties of fasteners made of carbon steel and alloy steel
ISO 6157-3	Fasteners - Surface Discontinuities

When a standard is referenced in a drawing or specification, it is understood that the reference is to the latest revision of the standard, unless stated otherwise.

For cross-reference listing of company part numbers, go to [CNH Catalogue](#).



Thread Length:	ISO 888
Material:	Class 10.9 ISO 898-1
Finish:	Phosphate (PHC)
Head dimensions:	ISO 4014

Typical part description for BOM's and CAD drawings

BOLT, M12X30 FULL 10.9 PHC

Bolts and screws shall be free from burrs, seams, laps, loose scale, irregular surfaces and any defects affecting their serviceability (ISO 6157-3).

AUTHOR	APPROVED BY	ECO	PART NUMBER
A KHAN	09OCT18 P TUPEK	09OCT18	35286023
			87028196

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Standard Part

Hexagon Head Bolts – Metric Coarse Full Thread Class 10.9 PHC – Non-Preferred

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Head Size Issues.

At the time of the merger, Case was already using ISO standards as a basis for standard hardware parts, while New Holland was generally using DIN standards. CNH standard parts will be specified to ISO standards whenever available.

When we began to combine Case and New Holland standard parts there were systems issues preventing the use of the former Case alpha-numeric part numbers in the New Holland systems. To resolve this problem, it was determined to use the New Holland number as the surviving number whenever one was available. If an all numeric format number was not available, one was created.

Cross references, were based on overall dimensions and performance characteristics. In the case of hex head screws, bolts and nuts, some dimensional mismatches resulted; namely head dimensions as follows:

Bolt size	Across flats dimension	
	Old DIN	CNH, ISO
M10	17	16
M12	19	18
M14	22	21
M22	32	34

Bolts in this standard, which may have formerly been supplied to these old across flats dimensions must now be delivered with the current ISO dimensions, unless explicit engineering deviation to use bolts to the old dimensions has been granted.

It is important that all bolts of a given diameter on a product be to the same head size. Therefore, bolts to the old and current standard should not be mixed.



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Table 1. Metric Hexagon Head Bolts With Full Thread– Phosphate Coated

Length	Bolt Nominal Diameter							
	6	8	10	12	14	16	20	30
16	86624997	87015743						
20		87015744	87015732					
25	86639041	16043630	87015733	87015735				
30		84365541	87015734	87015736				
35		87017611	86625011	84146883	84273740			
40			87015534	87012129				
45				87015539		87015737	87015739	
50				51547187	87477176	87015738		
55						86837482		
60					47495531	47492066	87015740	
65							87015728	
70		47737346						
80							87027061	87530318
Bolt Nominal Diameter	6	8	10	12	14	16	20	30
Coarse Thread Pitch	1	1.25	1.5	1.75	2	2	2.5	3.5
Width across flats nom./ max	10	13	16	18	21	24	30	46
Width across corners min.	11.05	14.38	17.77	20.03	23.36	26.75	32.95	50.85
Head height max.	4.16	5.45	6.58	7.68	8.98	10.18	12.72	19.12