



HOWMET FASTENING SYSTEMS
TUCSON OPERATIONS
3724 EAST COLUMBIA STREET
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Unimatic®
ADVANCED BLIND BOLT
ENGINEERING STANDARD

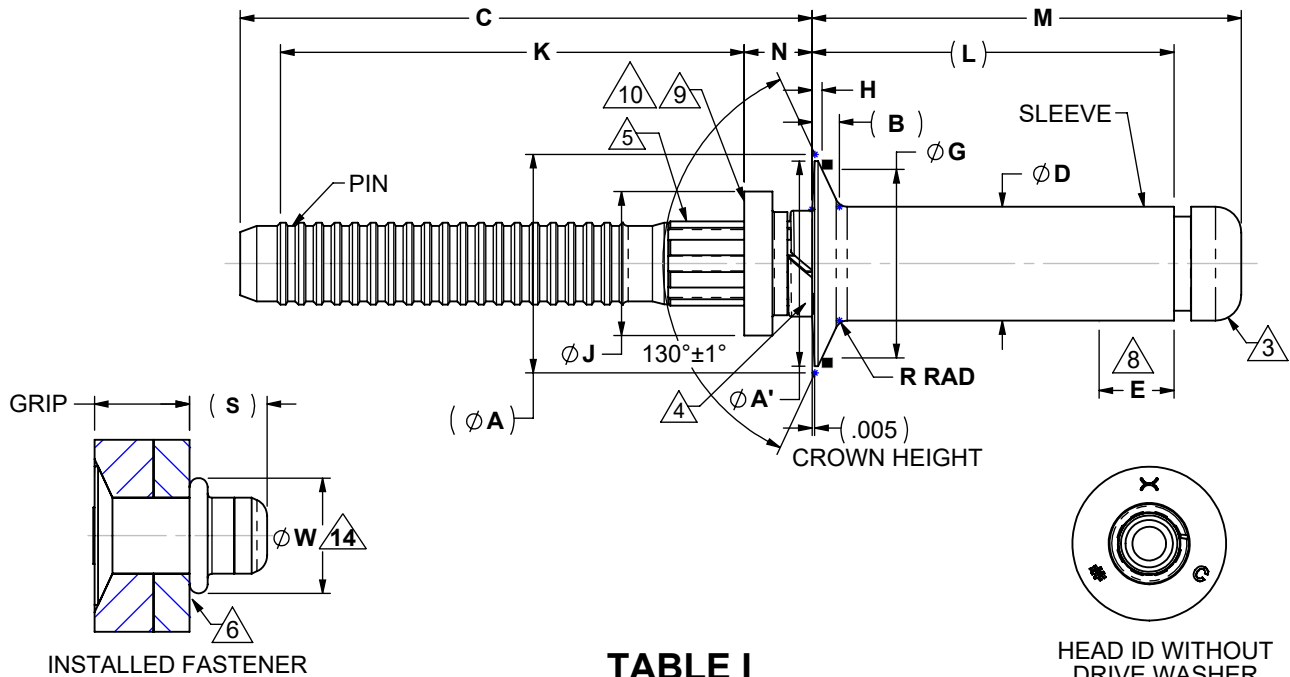


TABLE I

PART NUMBER	NOM DIA.	(Ø A) HEAD THEO. INTER.	Ø A' MIN	B HEAD HEIGHT REF	C MIN.	Ø D SLEEVE ±.001	E MAX	Ø G GAGE ±.0001	H GAGE HEIGHT	Ø J ±.005	K ±.030	N ±.060	R RAD. MAX.	(S) DESIGN REF	Ø W MIN.	SINGLE SHEAR	TENSILE	SPINDLE RET.	HOLE LIMITS +.003 -0.000
UAB130-EU05-()	05	.332	.296	.039	.844	.163	.300	.2831	.0188 .0148	10	.800	.140	.025	.232	.223	1980	1050	525	.164
UAB130-EU06-()	06	.386	.347	.043	.875	.198	.320	.3271	.0192 .0152	.375	.830	.160	.025	.292	.270	2925	1500	750	.199
UAB130-EU08-()	08	.507	.463	.057	1.000	.259	.370	.4319	.0237 .0197		.975	.190	.030	.361	.355	5000	2600	1300	.260

- 1. MINIMUM ULTIMATE SINGLE SHEAR AND TENSILE STRENGTHS IN POUNDS OF INSTALLED FASTENER.
- 2. APPLIES TO GRIPS 05-04 MAX, 06-05 MAX, 08-06 MAX AND UP. IN SHORTER GRIPS, A TRUE COMPOSITE SHEAR TEST CANNOT BE OBTAINED.
- 3. TRIM FLASH NOT TO EXCEED .005 MAXIMUM LENGTH ABOVE HEAD OF PIN.
- 4. SOLID OR SPLIT LOCK COLLAR - MANUFACTURER'S OPTION. SPLIT NOT TO EXCEED .020 WIDTH.
- 5. KNURLED TO FACILITATE FASTENER ASSEMBLY. NOT PART OF THE INSTALLED FASTENER.
- 6. BLIND SIDE HEAD MAY BE INSTALLED ON 7° MAXIMUM SLOPE.
- 7. IDENTIFICATION: HUCK SYMBOL, "C" (MATERIAL) AND GRIP DASH NUMBER.
- 8. "E" LENGTH OF "ØD" MAY BE .002 UNDERSIZE.
- 9. DRIVE WASHER TO FACILITATE INSTALLATION ONLY. NOT PART OF THE INSTALLED FASTENER.
- 10. -05 DIA SIZE ALSO AVAILABLE WITH REDUCED O.D. DRIVE ANVIL OF .312 ±.005. SEE PART NUMBER EXAMPLES.

DIMENSIONS IN INCHES

AE	PER ECN 15394, ADDED NOTE 14.		Current Design Activity CAGE Code 0HDW7		PROCUREMENT SPEC T0106	DRAWN BY J. SCHLOBOHM	CHECKED BY SIGNATURE ON FILE
	ISSUED 1/31/2001	Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK, 130° FLUSH HEAD, LARGE FOOT PRINT A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION				UAB130-EU	
REVISED 07/12/2023					SK12711		
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△ OVERLAP MINIMUM GRIP FOR -.06 DIAMETER IS .140 AND -.08 DIAMETER IS NONE.

TABLE II

GRIP NUMBER TABULATION															
GRIP DASH NUMBER	OVERLAP GRIP MIN	DESIGN GRIP RANGE		OVERLAP GRIP MAX	05		GRIP DASH NUMBER	OVERLAP GRIP MIN	DESIGN GRIP RANGE		OVERLAP GRIP MAX	06		08	
		MIN.	MAX.		(L)	M MAX			MIN.	MAX.		(L)	M MAX	(L)	M MAX
02	NONE	.094	.157	.173	.336	.476	02	NONE	.120	.157	.173	.355	.521	-	-
03	.146	.156	.220	.236	.398	.539	03	NOTE 11	.156	.220	.236	.417	.583	.479	.645
04	.209	.219	.282	.298	.460	.602	04	.203	.219	.282	.298	.480	.646	.541	.707
05	.271	.281	.345	.361	.523	.664	05	.265	.281	.345	.361	.542	.708	.604	.770
06	.334	.344	.407	.423	.585	.727	06	.328	.344	.407	.423	.605	.771	.666	.832
07	.396	.406	.470	.486	.648	.789	07	.390	.406	.470	.486	.667	.833	.729	.895
08	.459	.469	.532	.548	.710	.852	08	.453	.469	.532	.548	.730	.896	.791	.957
09	.521	.531	.595	.611	.773	.914	09	.515	.531	.595	.611	.792	.958	.854	1.020
10	.584	.594	.657	.673	.835	.977	10	.578	.594	.657	.673	.855	1.021	.916	1.082
11	.646	.656	.720	.735	.898	1.039	11	.640	.656	.720	.735	.917	1.083	.979	1.145
12	.709	.719	.782	.798	.960	1.102	12	.703	.719	.782	.798	.980	1.146	1.041	1.207
13	.771	.781	.845	.860	1.023	1.164	13	.765	.781	.845	.860	1.042	1.208	1.104	1.270
14	.834	.844	.907	.923	1.085	1.227	14	.828	.844	.907	.923	1.105	1.271	1.166	1.332
15	.896	.906	.970	.985	1.148	1.289	15	.890	.906	.970	.985	1.167	1.333	1.229	1.395
16	.959	.969	1.032	1.048	1.210	1.352	16	.953	.969	1.032	1.048	1.230	1.396	1.291	1.457
17	1.021	1.032	1.094	1.111	1.273	1.414	17	1.015	1.031	1.095	1.111	1.292	1.458	1.354	1.520
18							18	1.078	1.094	1.157	1.173	1.355	1.521	1.416	1.582
19							19	1.140	1.156	1.220	1.236			1.479	1.645
20							20	1.203	1.219	1.282	1.298			1.541	1.707

TABLE III

UAB130-EU INSTALLED WEIGHT IN LBS (1000 pcs.)							
GRIP	5 DIA	6 DIA	8 DIA	GRIP	5 DIA	6 DIA	8 DIA
-02	2.29	3.69		-12	5.97	9.01	16.74
-03	2.64	4.09	8.36	-13	6.34	9.55	17.67
-04	3.01	4.64	9.28	-14	6.71	10.10	18.60
-05	3.38	5.18	10.21	-15	7.08	10.64	19.53
-06	3.75	5.73	11.14	-16	7.45	11.20	20.76
-07	4.12	6.27	12.08	-17	7.82	11.75	21.69
-08	4.49	6.82	13.01	-18		12.29	22.62
-09	4.86	7.37	13.94	-19			23.55
-10	5.23	7.91	14.87	-20			24.48
-11	5.60	8.46	15.80				

DIMENSIONS IN INCHES

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	ISSUED 1/31/2001	Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK, 130° FLUSH HEAD, LARGE FOOT PRINT A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION					UAB130-EU	
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

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TABLE I V

FINISH CODE	MATERIAL			FINISH			LUBE 
	SLEEVE	PIN	LOCK COLLAR	SLEEVE	PIN	LOCK COLLAR	
NONE	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
D	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	ALUMINUM COAT MIL-DTL-83488	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
CD	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	CAD. PLATE AMS-QQ-P-416 TYPE II CLEAR DICHROMATE CLASS 2	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
 AC	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	ALUMINUM PIGMENTED COATING PER NAS4006 AND BMS 10-85	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
 ACN	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	NON-CHROMATE ALUMINUM PIGMENTED COATING PER NAS4006 AND EN4473	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL

 12. LUBRICATION- WHEN LUBRICATED, PARTS SHALL BE LUBRICATED PER AS5272, AS87132 OR LOX COMPATIBLE DRY FILM LUBRICANT. (MANUFACTURER'S OPTIONS)

 13. COMPLETE COVERAGE OF SLEEVE INTERNAL FEATURES IS NOT REQUIRED. OVER SPRAY ONTO THE INTERNAL FEATURES IS ACCEPTABLE

 14. THE AVERAGE READING OF THE SMALLEST & LARGEST OBSERVED VALUE ON THE SAME SPECIMEN MUST BE EQUAL TO OR GREATER THAN THE STATED MINIMUM DIAMETER.

HUCK PART NUMBER EXAMPLE:

UAB130-EU06 - 04()R

- CODE "R" FOR REDUCED DRIVE ANVIL DIAMETER ON -05 DIA SIZE ONLY
- FINISH CODE - SEE TABLE
- GRIP NUMBER IN 16th INCHES.
- NOMINAL SHANK DIAMETER IN 32nd INCHES.
- MATERIAL DESIGNATOR - A286.
- Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH PULL-TYPE, POSITIVE MECHANICAL LOCK, 130° FLUSH HEAD, EXPANDED BULB. LARGE FOOT PRINT. DRIVE WASHER INCLUDED.

DIMENSIONS IN INCHES

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			CAGE Code 0HDW7		CHECKED BY SIGNATURE ON FILE
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REVISED	07/12/2023	A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION			
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