



HOWMET FASTENING SYSTEMS
TUCSON OPERATIONS
3724 EAST COLUMBIA STREET
TUCSON, ARIZONA 85714
PHONE (520) 519-7400
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Unimatic®
ADVANCED BLIND BOLT
ENGINEERING
STANDARD

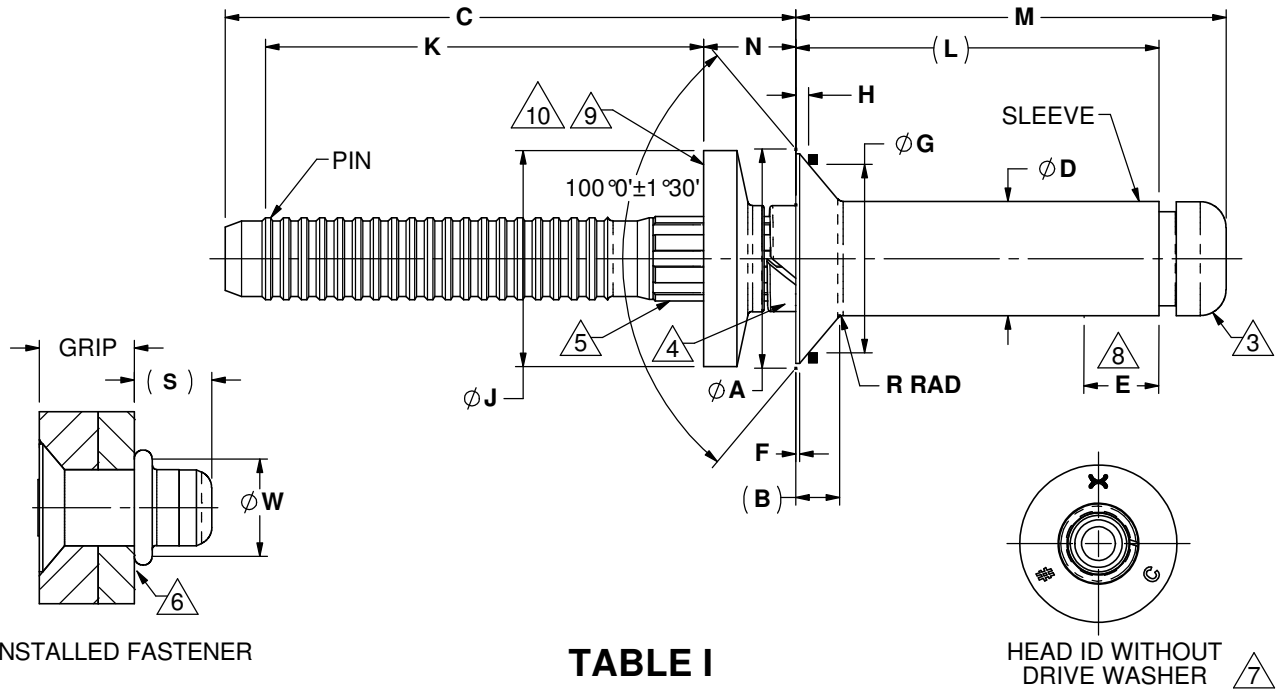


TABLE I

PART NUMBER	NOM DIA.	(Ø A) HEAD THEO. INTER.	(B) HEAD HEIGHT MAX	C MIN.	Ø D SLEEVE ±.001	E MAX	F MAX	Ø G GAGE ±.0001	H GAGE HEIGHT	J ±.005	K ±.030	N ±.060	R RAD. MAX.	(S) DESIGN REF	W MIN.	SINGLE SHEAR	TENSILE	SPINDLE RET.	HOLE LIMITS +.003 -0.000
UAB100-EU05-()	05	.333	.072	.844	.163	.300	.011	.2831	.0206 .0171	10	.800	.140	.010	.232	.223	1980	1150	575	.164
UAB100-EU06-()	06	.386	.080	.875	.198	.320	.013	.3271	.0243 .0205	.375	.830	.160	.015	.292	.270	2925	1690	845	.199
UAB100-EU08-()	08	.507	.105	1.000	.259	.370	.017	.4319	.0310 .0270		.975	.190	.020	.361	.355	5000	2900	1440	.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 5° 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

R	PER ECN 14450 CHANGED ARCONIC LOGO TO HOWMET LOGO		Current Design Activity CAGE Code 0HDW7		PROCUREMENT SPEC T0106	DRAWN BY J. SCHLOBOHM	
					CHECKED BY	SIGNATURE ON FILE	
ISSUED	12/8/2001	Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK, 100° FLUSH HEAD, A-286 CRES (95 KSI SHEAR) SINGLE ACTION, LARGE FOOT PRINT				UAB100-EU	
REVISED	4/1/2020					SK12771	
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Δ OVERLAP MINIMUM GRIP FOR -.06 DIAMETER IS .140 AND -.08 DIAMETER IS NONE.

TABLE II

GRIP NUMBER TABULATION															
GRIP DASH NO.	OVERLAP GRIP MIN	DESIGN GRIP RANGE		OVERLAP GRIP MAX	05		GRIP DASH NO.	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	.478	02	NONE	.120	.157	.173	.355	.521	-	-
03	.146	.156	.220	.236	.398	.540	03	NOTE 11	.156	.220	.236	.417	.583	.479	.645
04	.209	.219	.282	.298	.460	.603	04	.203	.219	.282	.298	.480	.646	.541	.707
05	.271	.281	.345	.361	.523	.665	05	.265	.281	.345	.361	.542	.708	.604	.770
06	.334	.344	.407	.423	.585	.728	06	.328	.344	.407	.423	.605	.771	.666	.832
07	.396	.406	.470	.486	.648	.790	07	.390	.406	.470	.486	.667	.833	.729	.895
08	.459	.469	.532	.548	.710	.852	08	.453	.469	.532	.548	.729	.895	.791	.957
09	.521	.531	.595	.611	.772	.914	09	.515	.531	.595	.611	.791	.957	.854	1.020
10	.584	.594	.657	.673	.835	.977	10	.578	.594	.657	.673	.854	1.020	.916	1.082
11	.646	.656	.720	.735	.898	1.040	11	.640	.656	.720	.735	.917	1.083	.979	1.145
12	.709	.719	.782	.798	.960	1.102	12	.703	.719	.782	.798	.979	1.145	1.041	1.207
13	.771	.781	.845	.860	1.023	1.165	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	1.290	15	.890	.906	.970	.985	1.168	1.334	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

TABLE III

UAB100-EU INSTALLED WEIGHT IN LBS (1000 pcs.)							
GRIP	5 DIA	6 DIA	8 DIA	GRIP	5 DIA	6 DIA	8 DIA
-02	2.45	3.97		-10	5.38	8.45	15.65
-03	2.79	4.63	9.14	-11	5.75	9.00	16.58
-04	3.16	5.18	10.05	-12	6.12	9.55	17.51
-05	3.53	5.72	10.99	-13	6.49	10.10	18.46
-06	3.90	6.27	11.92	-14	6.86	10.65	19.41
-07	4.27	6.81	12.85	-15	7.23	11.20	20.36
-08	4.64	7.36	13.78	-16	7.60	11.75	21.31
-09	5.01	7.91	14.71				

DIMENSIONS IN INCHES

R	PER ECN 14450 CHANGED ARCONIC LOGO TO HOWMET LOGO			Current Design Activity CAGE Code 0HDW7		PROCUREMENT SPEC T0106	DRAWN BY J. SCHLOBOHM	CHECKED BY SIGNATURE ON FILE	
	ISSUED	12/8/2001	Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK, 100° FLUSH HEAD, A-286 CRES (95 KSI SHEAR) SINGLE ACTION, LARGE FOOT PRINT						UAB100-EU
	REVISIED	4/1/2020							SK12771
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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	HIKOTE 1 PER NAS4006 AND BMS 10-85	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL

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

HUCK PART NUMBER EXAMPLE:

UAB100-EU06 - 04()R

CODE "R" FOR REDUCED DRIVE ANVIL DIAMETER ON -05 DIA SIZE ONLY
 NO CODE DENOTES PASSIVATION TREATMENT
 "CD" CODE DENOTES CADMIUM PLATING WITH CLEAR CHROMATE
 "D" CODE DENOTES ALUMINUM (IVD) COATING
 "AC" CODE DENOTES HIKOTE AND PASSIVATION
 GRIP NUMBER IN 16th INCHES.
 SHANK DIAMETER CODE, SEE TABLE I
 MATERIAL DESIGNATOR - A286.
 Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE,
 POSITIVE MECHANICAL LOCK, 100° FLUSH HEAD, EXPANDED BULB.
 LARGE FOOT PRINT. DRIVE WASHER INCLUDED.

DIMENSIONS IN INCHES

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