



Howmet Fastening Systems
 Tucson Operations
 3724 East Columbia Street
 Tucson, Arizona 85714 USA
 Phone (520) 519-7400
 Fax (520) 519-7454

Unimatic®
ADVANCED BLIND BOLT
ENGINEERING
STANDARD

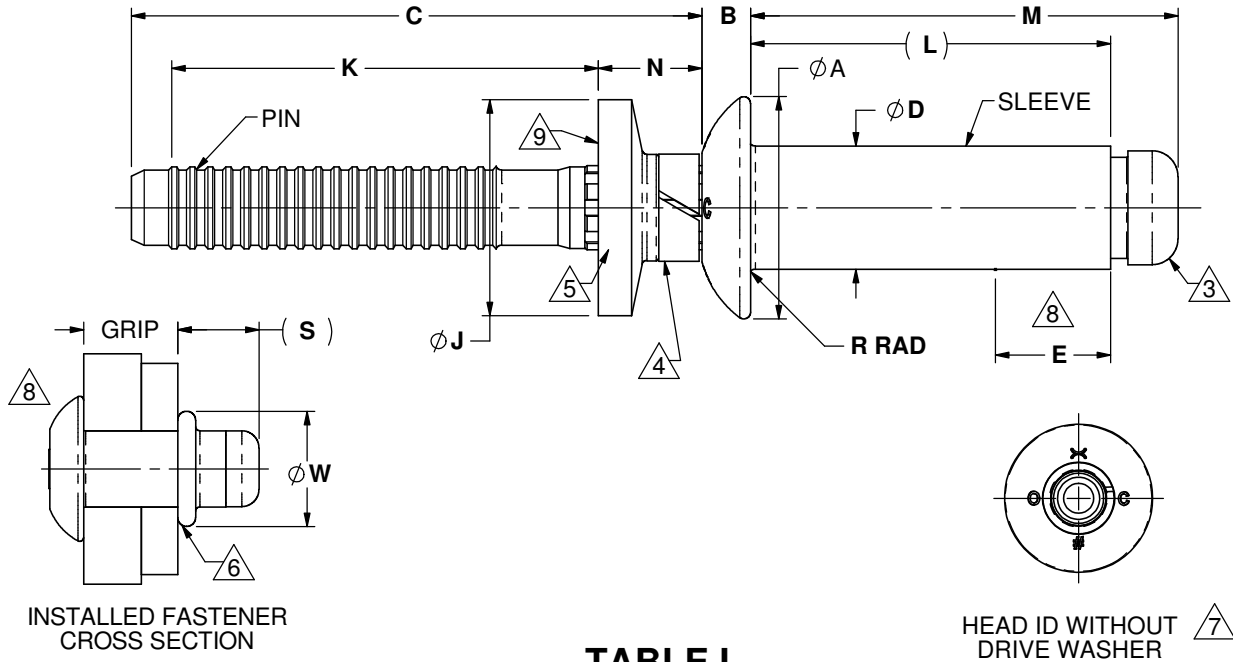


TABLE I

PART NUMBER	O/S DIA.	(ØA) HEAD DIA.	B +.010 -.000	C MIN	ØD ±.001	E MAX	ØJ ±.005	K ±.030	N ±.060	R RAD MAX	(S) DESIGN REF	ØW MIN.	SINGLE SHEAR 1 2	TENSILE STRENGTH 1	SPINDLE RET.	HOLE SIZE +.003 -.000
OUABP-EU05-()	-05	.328 .296	.067	.844	.179	.315	.375	.800	.140	.010	.247	.242	1980	1150	575	.180
OUABP-EU06-()	-06	.394 .356	.080	.875	.214	.335		.830	.160	.015	.307	.289	2925	1690	845	.215
OUABP-EU08-()	-08	.525 .475	.107	1.000	.275	.385		.975	.190	.018	.376	.371	5000	2900	1440	.276

- 1. MINIMUM ULTIMATE SINGLE SHEAR AND TENSILE STRENGTHS IN POUNDS OF INSTALLED FASTENER.
- 2. APPLIES TO GRIPS 05-03 MAX, 06-03 MAX, 08-04 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, "O", "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.

DIMENSIONS IN INCHES

J	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	4/19/2004	OVERSIZE Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK, PROTRUDING HEAD, LARGE FOOT PRINT, A-286 CRES (95 KSI SHEAR), SINGLE ACTION INSTALLATION, EXPANDED GRIP RANGE				OUABP-EU
REVISID	4/1/2020					SK12803	
PAGE	1 OF 3						

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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
01	NONE	.031	.095	.111	.298	.462	02	.078	.094	.157	.173	.388	.585	.426	.675
02	.084	.094	.157	.173	.360	.524	03	.140	.156	.220	.236	.450	.647	.488	.737
03	.146	.156	.220	.236	.423	.587	04	.203	.219	.282	.298	.513	.710	.551	.800
04	.209	.219	.282	.298	.485	.649	05	.265	.281	.345	.361	.575	.772	.613	.862
05	.271	.281	.345	.361	.548	.712	06	.328	.344	.407	.423	.638	.835	.676	.925
06	.334	.344	.407	.423	.610	.774	07	.390	.406	.470	.486	.700	.897	.738	.987
07	.396	.406	.470	.486	.673	.837	08	.453	.469	.532	.548	.763	.960	.801	1.050
08	.459	.469	.532	.548	.735	.899	09	.515	.531	.595	.611	.825	1.022	.863	1.112
09	.521	.531	.595	.611	.798	.962	10	.578	.594	.657	.673	.888	1.085	.926	1.175
10	.584	.594	.657	.673	.860	1.024	11	.640	.656	.720	.736	.950	1.147	.988	1.237
11	.646	.656	.720	.736	.923	1.087	12	.703	.719	.782	.798	1.013	1.210	1.051	1.300
12	.709	.719	.782	.798	.985	1.149	13	.765	.781	.845	.861	1.075	1.272	1.113	1.362
13	.771	.781	.845	.861	1.048	1.212	14	.828	.844	.907	.923	1.138	1.335	1.176	1.425
14	.834	.844	.907	.923	1.110	1.274	15	.890	.906	.970	.986	1.200	1.397	1.238	1.487
15	.896	.906	.970	.986	1.173	1.337	16	.953	.969	1.032	1.048	1.263	1.460	1.301	1.550
16	.959	.969	1.032	1.049	1.235	1.399	17	1.016	1.031	1.095	1.111	1.325	1.522	1.363	1.612
							18	1.078	1.094	1.157	1.173	1.388	1.585	1.426	1.675
							19	1.141	1.156	1.220	1.236	1.450	1.647	1.488	1.737
							20	1.203	1.219	1.282	1.298	1.513	1.710	1.551	1.800
							21	1.265	1.281	1.345	1.360	1.575	1.772	1.613	1.862
							22	1.328	1.344	1.407	1.423	1.638	1.835	1.676	1.925
							23	1.390	1.406	1.470	1.485	1.700	1.897	1.738	1.987
							24	1.453	1.469	1.532	1.548	1.763	1.960	1.801	2.050
							25	1.515	1.531	1.595	1.610	1.825	2.022	1.863	2.112

**OUABP-EU INSTALLED
WEIGHT IN LBS (1000 PCS.)**

GRIP	5 DIA	6 DIA	8 DIA	GRIP	5 DIA	6 DIA	8 DIA
-01	3.26			-14	8.11	12.62	24.34
-02	3.67	6.02	12.94	-15	8.48	13.17	25.29
-03	4.04	6.57	13.89	-16	8.85	13.72	26.24
-04	4.41	7.12	14.84	-17		14.27	27.19
-05	4.78	7.67	15.79	-18		14.82	28.14
-06	5.15	8.22	16.74	-19		15.37	29.09
-07	5.52	8.77	17.69	-20		15.92	30.04
-08	5.89	9.32	18.64	-21		16.47	30.99
-09	6.26	9.87	19.59	-22		17.02	31.94
-10	6.63	10.42	20.54	-23		17.57	32.89
-11	7.00	10.97	21.49	-24		18.12	33.84
-12	7.37	11.52	22.44	-25		18.67	34.79
-13	7.74	12.07	23.39				

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REVISED	4/1/2020						
PAGE	2 OF 3	SK12803					

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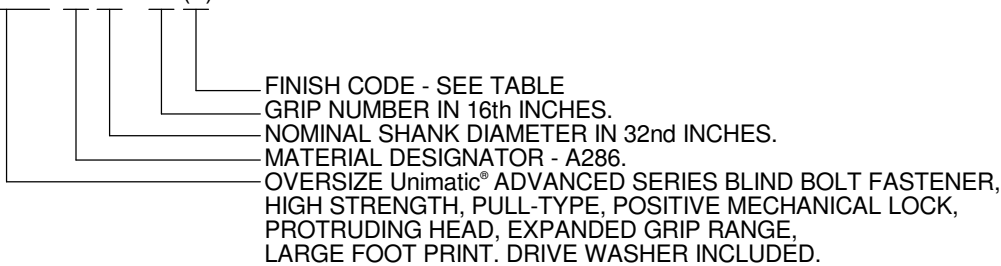
TABLE I V

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:

OUABP-EU06 - 04()



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