

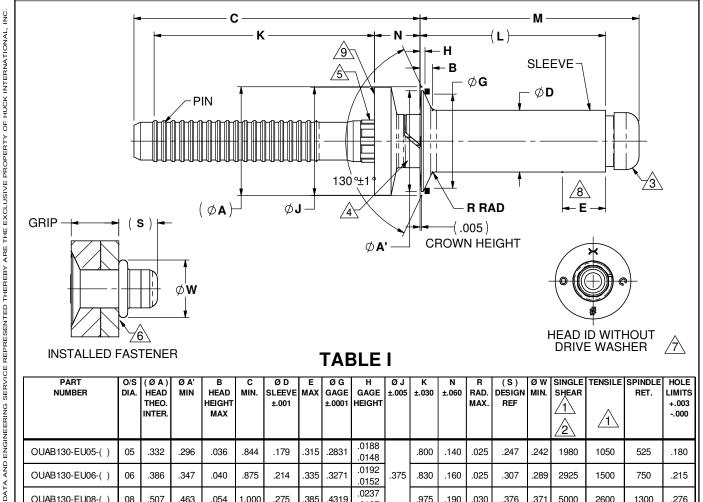
ARE THE EXCLUSIVE PROPERTY

HOWMET FASTENING SYSTEMS TUCSON OPERATIONS 3724 EAST COLUMBIA STREET TUCSON, ARIZONA 85714 PHONE (520) 519-7400 FAX (520) 519-7454

### **Unimatic**® **ADVANCED BLIND BOLT**

ENGINEERING STANDARD

**DIMENSIONS IN INCHES** 



PART NUMBER	O/S DIA.	(ØA) HEAD THEO. INTER.	Ø A' MIN	B HEAD HEIGHT MAX	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		SINGLE SHEAR 1	TENSILE	SPINDLE RET.	HOLE LIMITS +.003 000
OUAB130-EU05-( )	05	.332	.296	.036	.844	.179	.315	.2831	.0188 .0148		.800	.140	.025	.247	.242	1980	1050	525	.180
OUAB130-EU06-( )	06	.386	.347	.040	.875	.214	.335	.3271	.0192 .0152	.375	.830	.160	.025	.307	.289	2925	1500	750	.215
OUAB130-EU08-( )	08	.507	.463	.054	1.000	.275	.385	.4319	.0237 .0197		.975	.190	.030	.376	.371	5000	2600	1300	.276

- /1.\ MINIMUM ULTIMATE SINGLE SHEAR AND TENSILE STRENGTHS IN POUNDS OF INSTALLED FASTENER.
- 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.
- $\sqrt{3}$ .\ 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.
- KNURLED TO FACILITATE FASTENER ASSEMBLY. NOT PART OF THE INSTALLED FASTENER.
- BLIND SIDE HEAD MAY BE INSTALLED ON 7° MAXIMUM SLOPE.
- $\sqrt{7}$ \ IDENTIFICATION: HUCK SYMBOL, "O", "C" (MATERIAL) AND GRIP DASH NUMBER.
- "E" LENGTH OF "ØD" MAY BE .002 UNDERSIZE.
- $\cancel{9}$  DRIVE WASHER TO FACILITATE INSTAL;LATION ONLY. NOT PART OF THE INSTALLED FASTENER.

		N 14450, CHANGED ARCONIC LOGO	Current Design Activity	PROCUREMENT SPEC	DRAWN BY	J. SCHLOBOHM
J	TO HOW	MET LOGO	CAGE Code 0HDW7	T0106	CHECKED BY	SIGNATURE ON FILE
ISSUED	4/19/2004	OVERSIZE Unimatic® ADVANCED SERIES BLIND BOLT FASTEN	ER, HIGH STRENGTH,	OII	AB13	n-EII
REVISED	4/1/2020	PULL-TYPE, POSITIVE MECHANICAL LOCK, 130° FLUSH HEAD			7010	U-LU
PAGE	1 OF 3	A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION, E	XPANDED GRIP RANGE		SK1280	)1

DISCLOSED THEREIN AND THE TECHNICAL

DESIGN



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 $\cancel{10}$  OVERLAP MINIMUM GRIP FOR -06 DIAMETER IS .140 AND -08 DIAMETER IS NONE.

#### **TABLE II**

	GRIP NUMBER TABULATION														
GRIP DASH	OVERLAP GRIP	DESIGN RAN		OVERLAP GRIP	05		GRIP DASH	OVERLAP GRIP	DESIGN GRIP RANGE		OVERLAP GRIP			08	
NUM BER	MIN	MIN.	MAX.	MAX	(L)	M MAX	NUM BER	MIN	MIN.	MAX.	MAX	(L)	M MAX	(L)	M MAX
02	NONE	.094	.157	.173	.351	.491	02	NONE	.120	.157	.173	.370	.536	-	-
03	.146	.156	.220	.236	.413	.553	03	NOTE 10	.156	.220	.236	.432	.598	.494	.660
04	.209	.219	.282	.298	.476	.616	04	.203	.219	.282	.298	.495	.661	.556	.722
05	.271	.281	.345	.361	.538	.678	05	.265	.281	.345	.361	.557	.723	.619	.785
06	.334	.344	.407	.423	.601	.741	06	.328	.344	.407	.423	.620	.786	.681	.847
07	.396	.406	.470	.486	.663	.803	07	.390	.406	.470	.486	.682	.848	.744	.910
08	.459	.469	.532	.548	.726	.866	08	.453	.469	.532	.548	.745	.911	.806	.972
09	.521	.531	.595	.611	.788	.928	09	.515	.531	.595	.611	.807	.973	.869	1.035
10	.584	.594	.657	.673	.851	.991	10	.578	.594	.657	.673	.870	1.036	.931	1.097
11	.646	.656	.720	.735	.913	1.053	11	.640	.656	.720	.736	.932	1.098	.994	1.160
12	.709	.719	.782	.798	.976	1.116	12	.703	.719	.782	.798	.995	1.161	1.056	1.222
13	.771	.781	.845	.860	1.038	1.178	13	.765	.781	.845	.861	1.057	1.223	1.119	1.285
14	.834	.844	.907	.923	1.101	1.241	14	.828	.844	.907	.923	1.120	1.286	1.181	1.347
15	.896	.906	.970	.985	1.163	1.303	15	.890	.906	.970	.986	1.182	1.348	1.244	1.410
16	.959	.969	1.032	1.048	1.226	1.366	16	.953	.969	1.032	1.048	1.245	1.411	1.306	1.472
17	1.021	1.032	1.094	1.111	1.288	1.428	17	1.015	1.031	1.095	1.111	1.307	1.473	1.369	1.535
18							18	1.078	1.094	1.157	1.173	1.370	1.536	1.431	1.597
19							19	1.140	1.156	1.220	1.236			1.494	1.660
20							20	1.203	1.219	1.282	1.298			1.556	1.722

#### **TABLE III**

OUAB130-EU INSTALLED WEIGHT IN LBS (1000 pcs.)											
GRIP	5 DIA	6 DIA	8 DIA	GRIP	5 DIA	6 DIA	8 DIA				
-02	2.75	4.43		-12	6.50	9.86	18.40				
-03	3.17	4.91	10.03	-13	6.87	10.41	19.33				
-04	3.54	5.46	10.96	-14	7.24	10.96	20.26				
-05	3.91	6.01	11.89	-15	7.61	11.51	21.19				
-06	4.28	6.56	12.82	-16	7.98	12.06	22.12				
-07	4.65	7.11	13.75	-17	8.35	12.61	23.05				
-08	5.02	7.66	14.68	-18		13.16	23.98				
-09	5.39	8.21	15.61	-19			24.91				
-10	5.76	8.76	16.54	-20			25.84				
-11	6.13	9.31	17.47								

					DIMENSI	ONS IN INCHES
		N 14450, CHANGED ARCONIC LOGO	Current Design Activity	PROCUREMENT SPEC	DRAWN BY	J. SCHLOBOHM
J	TO HOW	/MET LOGO	CAGE Code 0HDW7	T0106	CHECKED BY	SIGNATURE ON FILE
ISSUED	4/19/2004	OVERSIZE Unimatic® ADVANCED SERIES BLIND BOLT FASTENI		OL	IAB13	n-FII
REVISED	4/1/2020	PULL-TYPE, POSITIVE MECHANICAL LOCK, 130° FLUSH HEAD		- 00	ייום	J-LO
PAGE	2 OF 3	A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION, EX	KPANDED GRIP RANGE		SK1280	)1



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THIS DRAWING, THE STRUCTURAL DESIGN DISCLOSED THEREIN AND THE TECHNICAL

3 OF 3

HOWMET FASTENING SYSTEMS TUCSON OPERATIONS 3724 EAST COLUMBIA STREET TUCSON, ARIZONA 85714 PHONE (520) 519-7400 FAX (520) 519-7454

## Unimatic® ADVANCED BLIND BOLT

ENGINEERING STANDARD

SK12801

#### **TABLE I V**

FINISH	MATERIAL				FINISH			
CODE	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	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:

OUAB130-EU06 - 04( )

FINISH CODE - SEE TABLE
GRIP NUMBER IN 16th INCHES.
NOMINAL SHANK DIAMETER IN 32nd INCHES.
MATERIAL DESIGNATOR - A286.
OVERSIZE Unimatic® ADVANCED SERIES BLIND BOLT FASTENER,
HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK,
130° FLUSH HEAD, EXPANDED GRIP RANGE. LARGE FOOT PRINT.
DRIVE WASHER INCLUDED.

					DIMENSI	ONS IN INCHES
		N 14450, CHANGED ARCONIC LOGO	Current Design Activity	PROCUREMENT SPEC	DRAWN BY	J. SCHLOBOHM
J	TO HOV	VMET LOGO	CAGE Code 0HDW7		CHECKED BY	SIGNATURE ON FILE
ISSUED	4/19/2004		, ,	OI	IΔR13	0-EH
REVISED	4/1/2020	PULL-TYPE, POSITIVE MECHANICAL LOCK, 130° FLUSH HEA			פוטאי	J-LU
		A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION. I	EXPANDED GRIP RANGE		DRAWN BY	