

# SHACKLES



**Screw Pin**

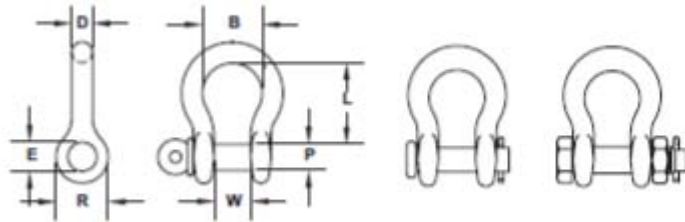


**Round Pin**



**Bolt & Nut**

- All shackles meet or exceed Federal Specification RRC-271D
- Working Load Limit and traceability codes shown as permanent marking on body and pin
- Available in powder coated, galvanized and self-colored finishes
- All shackles have alloy quenched and tempered pins
- Shackles made from technically advanced microalloy material
- Load break tests consistently show microalloy outperforms quenched and tempered carbon material
- Shock load testing of assemblies at -30°F consistently demonstrate microalloy outperforms quenched and tempered carbon material\*
- Shackles exhibit extreme deformation before failure\*
- Special testing and certification including magnetic particle, proof load, and fatigue test available upon request at time of order
- Special products engineering available to fit your special lifting, tie down, and pulling needs
- Design factor 6:1 (Round pin shackles design factor 5:1)



## SHACKLES

### SUPER STRONG™ ANCHOR SHACKLES - CARBON

DIMENSIONS											
SIZE D	CODE	CODE	CODE	WLL	P	E	W	R	L	B MIN.	WEIGHT
(IN)	SCREW PIN	ROUND PIN	BOLT & NUT	(TONS)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(LBS)
3/16	M645	M345	-	1/2	0.250	0.307	0.375	0.625	0.875	0.568	0.06
1/4	M646	M346	M846	3/4	0.312	0.401	0.469	0.875	1.125	0.750	0.12
5/16	M647	M347	M847	1	0.375	0.463	0.531	1.000	1.250	0.812	0.20
3/8	M648	M348	M848	1-1/2	0.438	0.531	0.656	1.125	1.437	0.937	0.30
7/16	M649	M349	M849	2	0.500	0.593	0.750	1.250	1.689	1.062	0.50
1/2	M650	M350	M8350	3	0.625	0.718	0.813	1.375	1.875	1.187	0.75
5/8	M651	M351	M851	4-1/2	0.750	0.843	1.063	1.875	2.375	1.500	1.30
3/4	M652	M352	M852	6-1/2	0.875	0.968	1.250	2.125	2.813	1.750	2.30
7/8	M653	M353	M853	8-1/2	1.000	1.109	1.438	2.375	3.312	2.000	3.50
1	M654	M354	M854	10	1.125	1.234	1.688	2.625	3.750	2.312	5.00
1-1/8	M655	M355	M855	12	1.250	1.375	1.812	2.875	4.250	2.625	7.00
1-1/4	M656	M356	M856	14	1.375	1.531	2.031	3.250	4.688	2.875	9.50
1-3/8	M666	M366	M866	17	1.500	1.656	2.250	3.500	5.250	3.250	12.50
1-1/2	M657	M357	M857	20	1.625	1.781	2.375	3.750	5.750	3.375	15.28
1-5/8	M685	M385	M885	24	1.750	1.906	2.625	4.125	6.250	4.000	23.50
1-3/4	M677	M377	M877	30	2.000	2.156	2.875	4.500	7.000	4.500	27.70
2	M658	M358	M858	35	2.250	2.406	3.250	5.250	7.750	5.250	39.00



**Screw Pin**

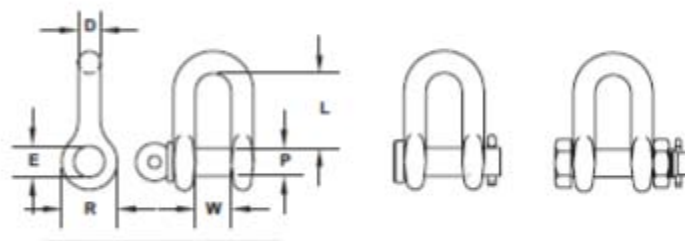


**Round Pin**



**Bolt & Nut**

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- Special products engineering available to fit your special lifting, tie down, and pulling needs
- Design factor 6:1 (Round pin shackles design factor 5:1)



## SHACKLES

### SUPER STRONG™ CHAIN SHACKLES - CARBON

SIZE D	CODE	CODE	CODE	WLL	DIMENSIONS					WEIGHT
					P	E	W	R	L	
(IN)	SCREW PIN	ROUND PIN	BOLT & NUT	(TONS)	(IN)	(IN)	(IN)	(IN)	(IN)	(LBS)
1/4	M746	M546	M946	3/4	0.312	0.401	0.469	0.875	0.875	0.12
5/16	M747	M547	M947	1	0.375	0.463	0.531	1.000	1.031	0.20
3/8	M748	M548	M948	1-1/2	0.438	0.531	0.656	1.125	1.250	0.30
1/2	M750	M550	M950	3	0.625	0.718	0.813	1.375	1.625	0.75
5/8	M751	M551	M951	4-1/2	0.750	0.843	1.063	1.875	2.000	1.30
3/4	M752	M552	M952	6-1/2	0.875	0.960	1.250	2.125	2.375	2.30
7/8	M753	M553	M953	8-1/2	1.000	1.109	1.438	2.375	2.812	3.50
1	M754	M554	M954	10	1.125	1.234	1.608	2.625	3.188	5.00
1-1/8	M755	M555	M955	12	1.250	1.375	1.812	2.875	3.562	7.00
1-1/4	M756	M556	M956	14	1.375	1.531	2.031	3.250	3.938	9.50
1-3/8	M766	M566	M966	17	1.500	1.656	2.250	3.500	4.438	12.50
1-1/2	M757	M557	M957	20	1.625	1.781	2.375	3.750	4.875	17.20
1-5/8	M785	M585	M985	24	1.750	1.906	2.625	4.125	5.250	23.50
1-3/4	M777	M577	M977	30	2.000	2.156	2.875	4.500	5.750	27.70
2	M758	M558	M958	35	2.250	2.406	3.250	5.250	6.750	39.00



**Screw Pin**

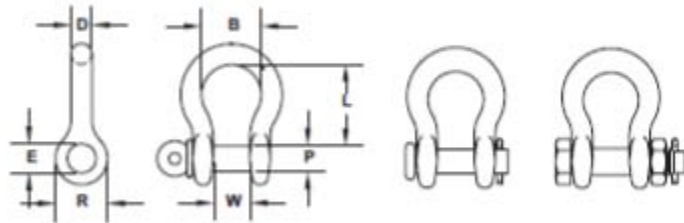


**Round Pin**



**Bolt & Nut**

- All shackles meet or exceed Federal Specification RRC-271D
- Working Load Limit and traceability codes shown as permanent marking on body and pin
- Available in powder coated, galvanized and self-colored finishes
- All shackles have alloy quenched and tempered pins
- Shackles exhibit extreme deformation before failure\*
- Special testing and certification including magnetic particle, proof load, and fatigue test available upon request at time of order
- Special products engineering available to fit your special lifting, tie down, and pulling needs
- Design factor 5:1



**SHACKLES**  
ALLOY ANCHOR SHACKLES

				DIMENSIONS							
SIZE D	CODE	CODE	CODE	WLL	P	E	W	R	L	B MIN.	WEIGHT
(IN)	SCREW PIN	ROUND PIN	BOLT & NUT	(TONS)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(LBS)
3/8	M648A	-	M848A	2	0.438	0.531	0.656	1.125	1.437	0.937	0.30
7/16	M649A	M349A	M849A	2.6	0.500	0.593	0.750	1.250	1.609	1.062	0.50
1/2	M650A	M350A	M8350A	3.3	0.625	0.718	0.813	1.375	1.875	1.187	0.75
5/8	M651A	M351A	M851A	5	0.750	0.843	1.063	1.875	2.375	1.500	1.30
3/4	M652A	M352A	M852A	7	0.875	0.968	1.250	2.125	2.813	1.750	2.30
7/8	M653A	M353A	M853A	9.5	1.000	1.109	1.438	2.375	3.312	2.000	3.50
1	M654A	M354A	M854A	12.5	1.125	1.234	1.688	2.625	3.750	2.312	5.00
1-1/8	M655A	M355A	M855A	15	1.250	1.375	1.812	2.875	4.250	2.625	7.00
1-1/4	M656A	M356A	M856A	18	1.375	1.531	2.031	3.250	4.688	2.875	9.50
1-3/8	M666A	M366A	M866A	21	1.500	1.656	2.250	3.500	5.250	3.250	12.50
1-1/2	M657A	M357A	-	25	1.625	1.781	2.375	3.750	5.750	3.375	15.28
1-1/2	-	-	M857A	30	1.625	1.781	2.375	3.750	5.750	3.375	17.20
1-5/8	M685A	M385A	-	29	1.750	1.906	2.625	4.125	6.250	4.000	23.50
1-5/8	-	-	M885A	35	1.750	1.906	2.625	4.125	6.250	4.000	23.50
1-3/4	M677A	M377A	-	34	2.000	2.156	2.875	4.500	7.000	4.500	27.70
1-3/4	-	-	M877A	40	2.000	2.156	2.875	4.500	7.000	4.500	27.70
2	M658A	M358A	-	43	2.250	2.406	3.250	5.250	7.750	5.250	39.00
2	-	-	M858A	50	2.250	2.406	3.250	5.250	7.750	5.250	39.00
2-1/2	-	-	MC860AG	85	2.750	2.906	4.125	6.250	10.500	6.750	90.50
3	-	-	MC862AG	120	3.250	3.406	5.000	6.750	13.000	7.375	137.00



**Screw Pin**

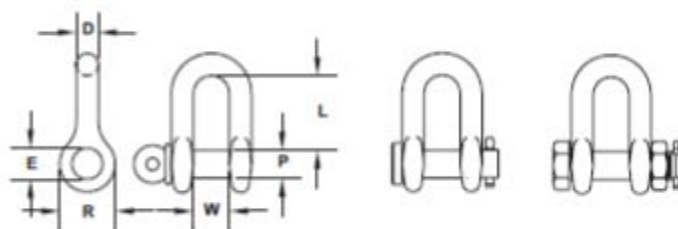


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## SHACKLES

### ALLOY CHAIN SHACKLES

SIZE	D	CODE	CODE	CODE	WLL	DIMENSIONS					WEIGHT
						P	E	W	R	L	
(IN)		SCREW PIN	ROUND PIN	BOLT & NUT	(TONS)	(IN)	(IN)	(IN)	(IN)	(IN)	(LBS)
3/8		M748A	-	M948A	2	0.438	0.531	0.656	1.125	1.250	0.25
1/2		M750A	M550A	M950A	3.3	0.625	0.718	0.813	1.375	1.625	0.75
5/8		M751A	M551A	M951A	5	0.750	0.843	1.063	1.875	2.000	1.30
3/4		M752A	M552A	M952A	7	0.875	0.968	1.250	2.125	2.375	2.30
7/8		M753A	M553A	M953A	9.5	1.000	1.109	1.438	2.375	2.812	3.50
1		M754A	M554A	M954A	12.5	1.125	1.234	1.688	2.625	3.188	5.00
1-1/8		M755A	M555A	M955A	15	1.250	1.375	1.812	2.875	3.562	7.00
1-1/4		M756A	M556A	M956A	18	1.375	1.531	2.031	3.250	3.938	9.50
1-3/8		M766A	M566A	M966A	21	1.500	1.656	2.250	3.500	4.438	12.50
1-1/2		M757A	M557A	-	25	1.625	1.781	2.375	3.750	4.875	17.20
1-1/2		-	-	M957A	30	1.625	1.781	2.375	3.750	4.875	17.20
1-5/8		M785A	M585A	-	29	1.750	1.906	2.625	4.125	5.250	23.50
1-5/8		-	-	M985A	35	1.750	1.906	2.625	4.125	5.250	23.50
1-3/4		M777A	M577A	-	34	2.000	2.156	2.875	4.500	5.750	27.70
1-3/4		-	-	M977A	40	2.000	2.156	2.875	4.500	5.750	27.70
2		M758A	M558A	-	43	2.250	2.406	3.250	5.250	6.750	39.00
2		-	-	M958A	50	2.250	2.406	3.250	5.250	6.750	39.00