



Metallics

An **AMERICAN** Source For Premier
and Innovative Fasteners and Anchors

MACHINE SCREW LEAD ANCHOR

The following Specification Sheet applies to all **Machine Screw Lead Anchor** in our **J14 series**.



ULTIMATE LOAD CAPACITIES - CONCRETE

ANCHOR SIZE	DRILL BIT (IN)	EMBED. DEPTH (IN)	2,000 PSI CONCRETE TENSION (LBS)	CONCRETE SHEAR (LBS)	4,000 PSI CONCRETE TENSION (LBS)	CONCRETE SHEAR (LBS)	6,000 PSI CONCRETE TENSION (LBS)	CONCRETE SHEAR (LBS)
6 - 32	5/16	1/2	610	180	770	220	820	220
8 - 32	5/16	1/2	840	565	915	655	950	655
10 - 24	3/8	5/8	960	885	1,215	940	1,380	940
1/4" - 20	1/2	7/8	1,870	1,355	2,340	1,410	2,440	1,410
5/16" - 18	5/8	1	2,250	1,880	2,445	2,070	3,030	2,070
3/8" - 16	3/4	1-1/4	2,625	2,700	3,105	3,305	3,600	3,305
1/2" - 13	7/8	1-1/2	4,260	3,995	4,370	4,545	4,895	4,545
5/8" - 11	1-1/8	2	7,385	8,340	8,485	9,930	8,900	9,930
3/4" - 10	1-1/4	2-1/4	7,810	10,385	8,975	12,170	9,325	12,170

NOTE: The values listed above are ultimate load capacities which should be reduced by a minimum safety factor of 4 or greater to determine the allowable working load.

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Description	An anchoring device consisting of (A) an internally threaded conical expander designed with some means (ie. ribs or knurls) to prevent it from turning during expansion; and (B) an expansion sleeve which slips over the expander. The outer walls of the sleeve can be either straight cylindrical or tapered, and the surface either smooth or corrugated. A spherical steel lockwasher at the top of the expansion sleeve is optional.
Applications/ Advantages	A caulking type anchor which provides a quick setting in brick, concrete or stone. The lead shield's malleability enable it to fill uneven or irregular spots in the hole. When tamped, the expansion sleeve holds the expander inside the hole in the masonry, equally distributing the load around the anchor. Fixtures can be removed or replaced without sacrificing holding power.
Material	Cone: May be one of the following materials: Brass, Malleable Iron, Steel or Die Cast Zinc Alloy; Expander Shield: Lead or 3-5% Antimonial Lead Alloy
Tensile and Shear Values	Machine screw anchors shall not be removable or show evidence of failure when subjected to tensil and shear test loads as specified in the above table. The suggested safe working load is one-fourth the average test proof loads shown in the above table.

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