

CASE HISTORY



JAKEBOLT ANCHORS

A large metalworking facility involved in the manufacturing of oil field equipment installed their machines using UNISORB Heavy Duty JAKEBOLT Anchors. JAKEBOLTS are installed when the foundations are poured. This approach offered the following advantages over previously used methods.

- No expertise in grouting techniques are required by the installation crew
- The foundation does not require special preparation such as pre-cast holes and pre-wetting
- There is no time delay to allow the grout to cure when setting the machines

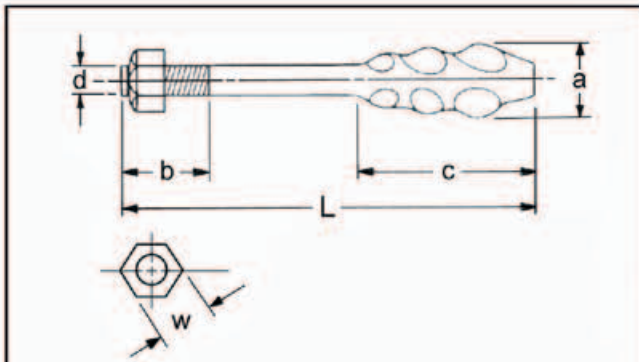
Several machines have been installed successfully using this method and the company has been very satisfied with the results. Use of all-steel Heavy Duty JAKEBOLTS has become the standard installation method for this company.

Made from high quality forged steel, VECTOR BOLTS have a series of angular facets which resolve vertical stress forces into a cone-shaped pressure pattern. An advantage of this unique design is the increased contact area between the bolt and the grout. The wedge shaped design on the bottom of the bolt transfers the tensile load of the stud into a lateral compressional load in the foundation assuring maximum pull out strengths. The increase in load transfer to the foundation results in a reduction of the embedment depth required to obtain full strength of the anchor. This reduction in required embedment depth lowers the installation cost by reducing the core drilling and grouting requirements.

VECTOR BOLTS are available in diameters and lengths shown below in a 90,000 psi (6,298 kg/cm²) minimum tensile strength material.



VECTOR ANCHOR BOLTS



SPECIFICATIONS

TYPE	MM INCH	BASIC DIMENSIONS					STANDARD LENGTH 'L'					
		d	b	a	c	w						
EM 12	MM	12	30	24	70	19	150	200	-	-	-	-
	INCH (REF.)	1/2	1-3/16	1	2-3/4	.75	6	8	-	-	-	-
EM 16	MM	16	40	32	90	24	150	200	255	300	355	-
	INCH (REF.)	5/8	1-5/8	1-1/4	3-1/2	.94	6	8	10	12	14	-
EM 20	MM	20	50	40	100	30	200	255	300	350	410	460
	INCH (REF.)	3/4	2	1-1/2	4	1.2	8	10	12	14	16	18
EM 24	MM	24	60	48	135	36	300	350	410	460	-	-
	INCH (REF.)	15/16	2-3/8	1-7/8	5-3/8	1.4	12	14	16	18	-	-
EM 30	MM	30	75	60	150	46	320	410	460	610	-	-
	INCH (REF.)	1-3/16	3	2-3/8	6	1.8	12	16	18	24	-	-
EM 36	MM	36	90	72	180	55	400	610	-	-	-	-
	INCH (REF.)	1-7/16	3-1/2	2-7/8	7	2.2	16	24	-	-	-	-

Other sizes and lengths available. Contact UNISORB Engineering. Inches are shown for reference only.