



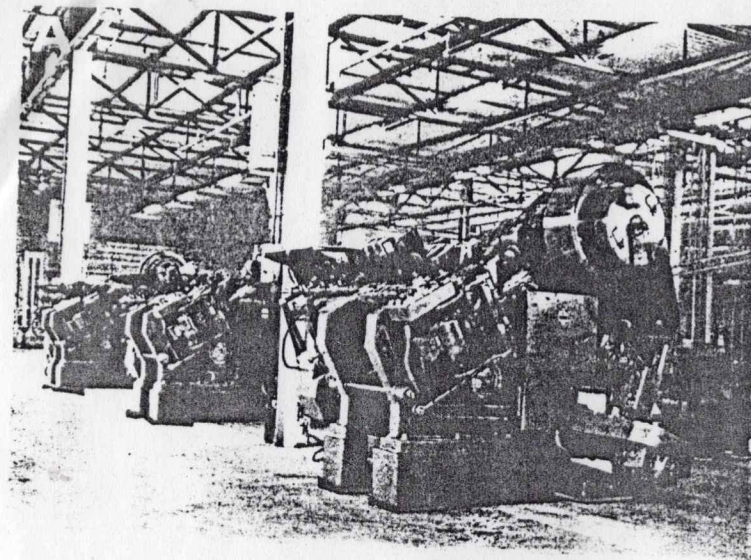
The **JAMES WALKER** Group of Companies

TICO S

Material for Machinery Mounting

APPENDIX 1: (f)

GENERAL INSTALLATION

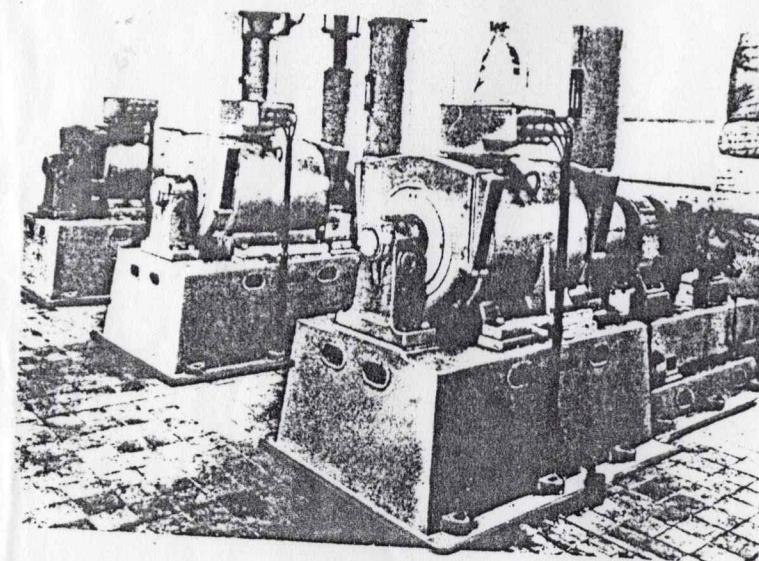
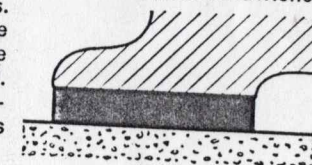


For maximum efficiency in general plant and workshop machinery mounting, we recommend the following methods of employing TICO material:

A

TICO S/PA PAD MATERIAL for machines with individual feet or cast skirts, the whole area in contact with the floor is generally covered with TICO S/PA. For machines with flat bases, strips of TICO S/PA may be employed at intervals across the base or around the periphery, as desired.

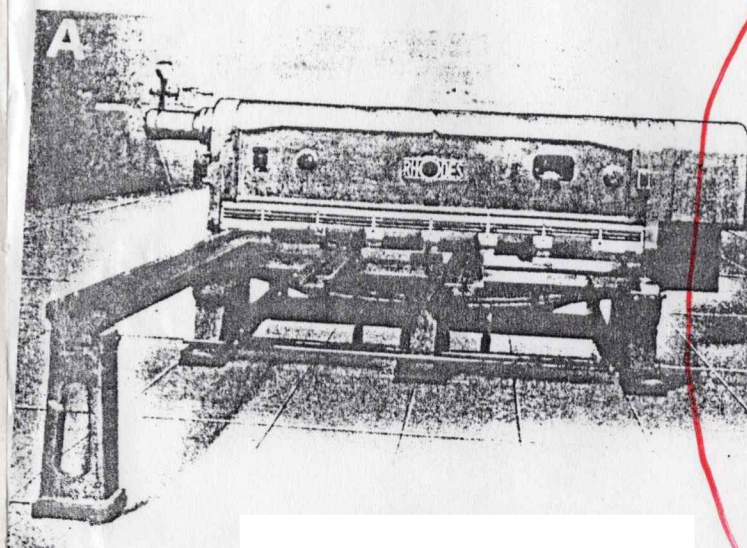
Levelling—TICO S/SH SHIMMING is available in thicknesses down to .020 in and should be employed for general machine levelling. Where TICO Adhesive is employed, ensure all shimming surfaces are also coated. Shimming should not normally be in excess of 25% of the initial pad thickness. When additional percentage of shimming is required, due to very bad floors, then this can be readily overcome by using hard wood or steel pads sandwiched between two TICO pads. After this has been done TICO Shimming can be used to obtain final level. For very accurate levelling, see Adjustamounds section 'C'.



Top photograph—Bliss Can End Press by courtesy of H. J. Heinz & Co Ltd. mounted on 1 in thick TICO S/PA.

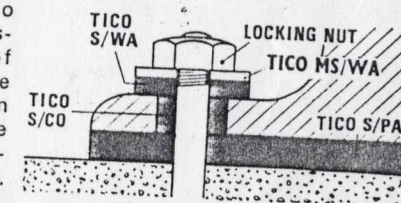
Middle photograph—James Howden Rotary Blower by courtesy of Clayton Aniline Co Ltd. mounted on 3 in wide ½ in thick TICO S/PA.

Lower photograph—Rhodes 8 ft Guillotine by courtesy of Copperad Ltd. mounted on 1 in thick TICO S/PA.

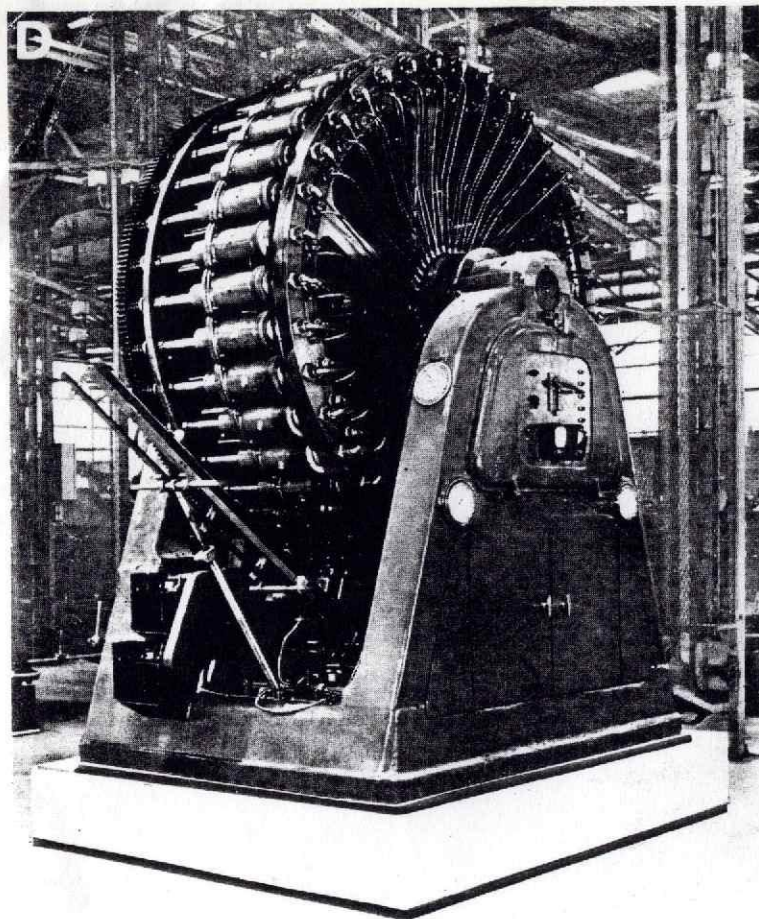


B

TICO COLLARS AND WASHERS. Although the vast majority of plant can be securely installed by TICO Pads and Adhesive, there are a few cases where bolts must be employed, e.g. where the C. of G. falls outside a machine base, as with an inclinable power press or radial drill and when mounting a prime mover not rigidly connected to the main machine structure. In such cases TICO S/CO Collars and S/WA Washers should also be employed to prevent transmission of machine noise and vibration through the bolt to the surrounding area.



It is recommended that locking nuts be used tightened so as to firmly locate the machine on the TICO pads without applying further compression.
S/CO—Collars—recommended minimum wall thickness ½ in. Employ ¾ in or wider where possible.
S/WA—Washers—½ in thick. Recommended minimum O/D three times bolt diameter.
MS/WA—Steel Washers—O/D must always be equal to TICO S/WA. Special plated steel washers, ½ in thick available ex. stock (see supply detail).



D

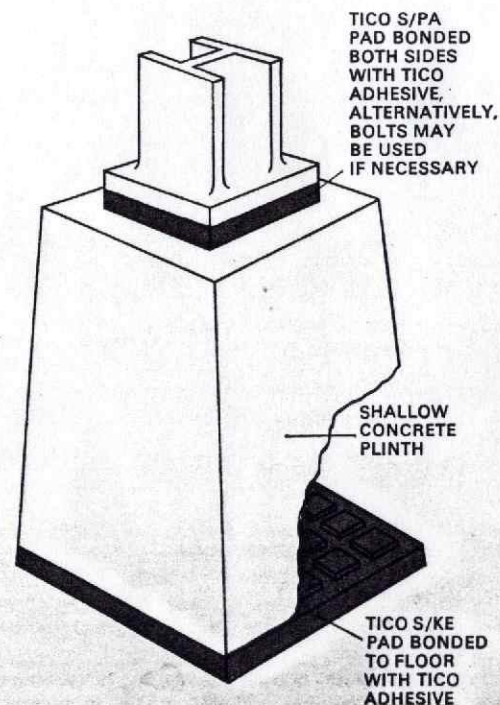
PLINTH INSTALLATION is helping to solve many difficult mounting problems in industry today, especially in Food, Beverage and Chemical Plants. The prime reasons for its use are:

- ☐ The avoidance of damage to expensive tiled surfaces and waterproof floors.
- ☐ To provide level surfaces on drainage floors irrespective of the slope or camber.
- ☐ Where additional height is required for installing a particular machine or structure.

Install as follows—bond TICO S/PA material to appropriate floor area, shutter to required height, seal all joints between pads with 3 in TICO A/ST Sealing Tape and cast the concrete directly on to pads. Machinery may then be mounted on the plinth with additional TICO Pads, or bolts, if essential.

Should the necessity arise to move the machine, the plinth can be readily broken up and the TICO Pad removed, leaving a clean undamaged floor surface.

Bliss Can Tester by courtesy of H. J. Heinz & Co Ltd. mounted on ½ in thick TICO S/PA above and below the plinth.



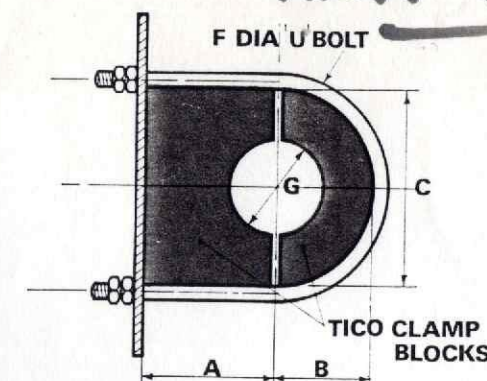
TICO S/KE KEYED PAD has a cross fluted upper surface which creates a greatly increased natural bond over that obtainable by casting concrete directly onto the flat surface of TICO S/PA, where the use of an adhesive on the upper surface is not possible. It should be employed for small plinths of 200 sq in or less which are subject to shock or vibration, i.e. beneath supporting structures, conveyor supports, compressor receivers, after-coolers, etc.

PIPEWORK APPLICATIONS CONTINUED

TICO S/NG/CB These are identical to the S/CB Clamp Blocks with the addition of a molybdenum disulphide impregnated nylon bush to provide a low friction bore for the accommodation of increased longitudinal movement.

PART NUMBER	PIPE NOM. BORE	PIPE O/D	G	A	B	C	THICKNESS	m (Ref. only)
92-100	1"	1.315"	3 1/2"	2 1/2"	4 1/2"	3"	3"	1.0
92-150	1 1/2"	1.9"	3 3/4"	2 3/4"	5"	3 1/2"	3 1/2"	1.5
92-200	2"	2 1/2"	4 1/2"	3 1/2"	6"	4"	4"	2.0
92-300	3"	3 3/4"	5"	4 1/2"	7 1/2"	4 1/2"	4 1/2"	3.0
92-400	4"	4 3/4"	5 1/2"	5"	8 1/2"	5"	5"	4.0
92-600	6"	6 3/4"	6 1/2"	6 1/2"	10 1/2"	6 1/2"	6 1/2"	6.0
92-800	8"	8 3/4"	7 1/2"	7 1/2"	12 1/2"	7 1/2"	7 1/2"	8.0

ANTI-VIBRATION



SPECIALISED TICO PADS

In brief outline only, additional detailed information available on request.

TICO HP/PA Designed for use on applications where the pad may be totally submerged in hot oil, e.g. mounting of Transformer Cores etc.

Supplied—in the same range of sizes as TICO S/PA.

TICO LF/PA Specifically designed for the installation of machinery where it is necessary to isolate the transmission of lower frequency vibrations than can be accommodated by TICO S material, as well as for use in insulating machinery foundation blocks from incoming ground vibrations, i.e. any machinery or equipment whose accuracy would be impaired if affected by general ground-borne vibration, in addition, it will achieve high noise reduction.

Supplied—in 6 in and 12 in squares and multiples thereof with a maximum continuous length of 48 in.

TICO TR/PA For the mounting of complete transformers.

TICO Materials for Heavy Duty Applications In heavy industry the following TICO materials can be used advantageously to absorb high impact loads, thus preventing damage to foundations. In view of the diversity of applications it is advisable to consult us, giving full details of the individual problem, when we will be pleased to put forward our recommendations.

TICO PF/PA This type has been found ideally suited to numerous applications in heavy industry. It is manufactured from laminated layers of high quality proofed fabric with properties that will remain constant under arduous service conditions, do not distort or deteriorate with age and are unaffected by dampness or temperature changes.

Not normally recommended for static loads above 155 kg/cm² (1 ton/in²).

Available in pads of size, thickness and combination to suit individual requirements.

TICO RF/PA This is a development of TICO PF material specifically designed for use on Power and Drop Hammer anvils of all types and weights but in view of the wide variation of hammer design, it is essential that recommendations are made individually.

The main advantages of incorporating TICO RF Pads are:

The absorption of destructive forces of the hammer blows without reduction of hammer efficiency.

Prolonged life of anvils, dies and frames and reduction in piston breakdown, thus saving much maintenance cost and extending operating availability of the hammer.

Unlike wood, a TICO RF Pad has a uniform fibre structure and as such is not liable to uneven compression. Wood fibres break down taking uneven permanent set and cause tilting of the anvil block, the resetting of which causes much expense in labour and loss of production.

The depth of the anvil pit required to accommodate a TICO RF Pad is a fraction of that necessary for the original timber method.

Available in pads of size, thickness and combination to suit individual requirements.

TICO B/PA A material specially developed for all types of buffer applications. Maximum static load 10 kg/cm² (145 lb/in²). It is also used in combination with TICO PF, as described below.

TICO FF/PA This is a composite pad having varying thicknesses of TICO B and proofed fabric materials. It was introduced for specialised applications viz:

- ☐ To provide a resilient base to proofed fabric material for taking up irregularities in the floor surface when mounting machines with high bearing load on support area. *Not normally recommended for static loads above 155 kg/cm² (1 ton/in²).*

- ☐ Forging hammer buffer pads, e.g. counter-blow hammers.

- ☐ General steel works applications including end stop buffers and resilient pads for roller table bearing chocks.

- ☐ Resilient buffers for mine shaft cages.

Available in pads of size, thickness and combination to suit individual requirements.

TICO BONDSIP UNITS A resilient sliding bearing pad designed to provide a maintenance free expansion cushion, with unlimited movement under varying load. Individual design details are available upon request.

Engineers concerned with the reduction of noise and vibration may also find our TICO Bellows Leaflet of interest.

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Phone: 0224 21569 & 575672
Telex: 73386

ASHFORD, 4 Ulley Road, Kennington, Ashford, Kent TN24 9HT
Phone: 0233 22600

BARROW-IN-FURNESS, County Park Trading Estate, Park Road, Barrow-in-Furness, Cumbria LA14 4BQ
Phone: 0229 23164

BELFAST, 2/6 Laburnum Street, Belfast BT5 5BD
Phone: 0232 58047

BIRMINGHAM AREA, Victoria Street, West Bromwich, West Midlands B70 8EU
Phone: 021-553 2831/2

BRISTOL, 8 Devon Road, Whitehall, Bristol BS5 9AE
Phone: 0272 557282

CARDIFF, Bessemer Road, Cardiff CF1 6PB
Phone: 0222 20893

CROYDON, 50 Wandale Road, Croydon CR0 1DF
Phone: 01-688 3733 & 3522

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Phone: 01-599 0791

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Phone: Penryn 0328 72789

GLASGOW, 71 Nelson Street, Glasgow G5 8EA
Phone: 041-429 2082/4

HITCHIN, 30A Nightingale Road, Hitchin, Herts. SG5 1QX
Phone: 0462 59854

HULL, Clay Street, Chamberlain Road, Hull HU8 8HB
Phone: 0482 23695

LEEDS, 11 Hales Road, Lower Wortley, Leeds LS12 4PN
Phone: 0532 636790

LEICESTER, 42 Kenilworth Drive, Qadby Trading Estate, Qadby Leicester LE2 5LA
Phone: 0533 719111/2

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Phone: 01-240 2217/8

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Phone: 0792 55549

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