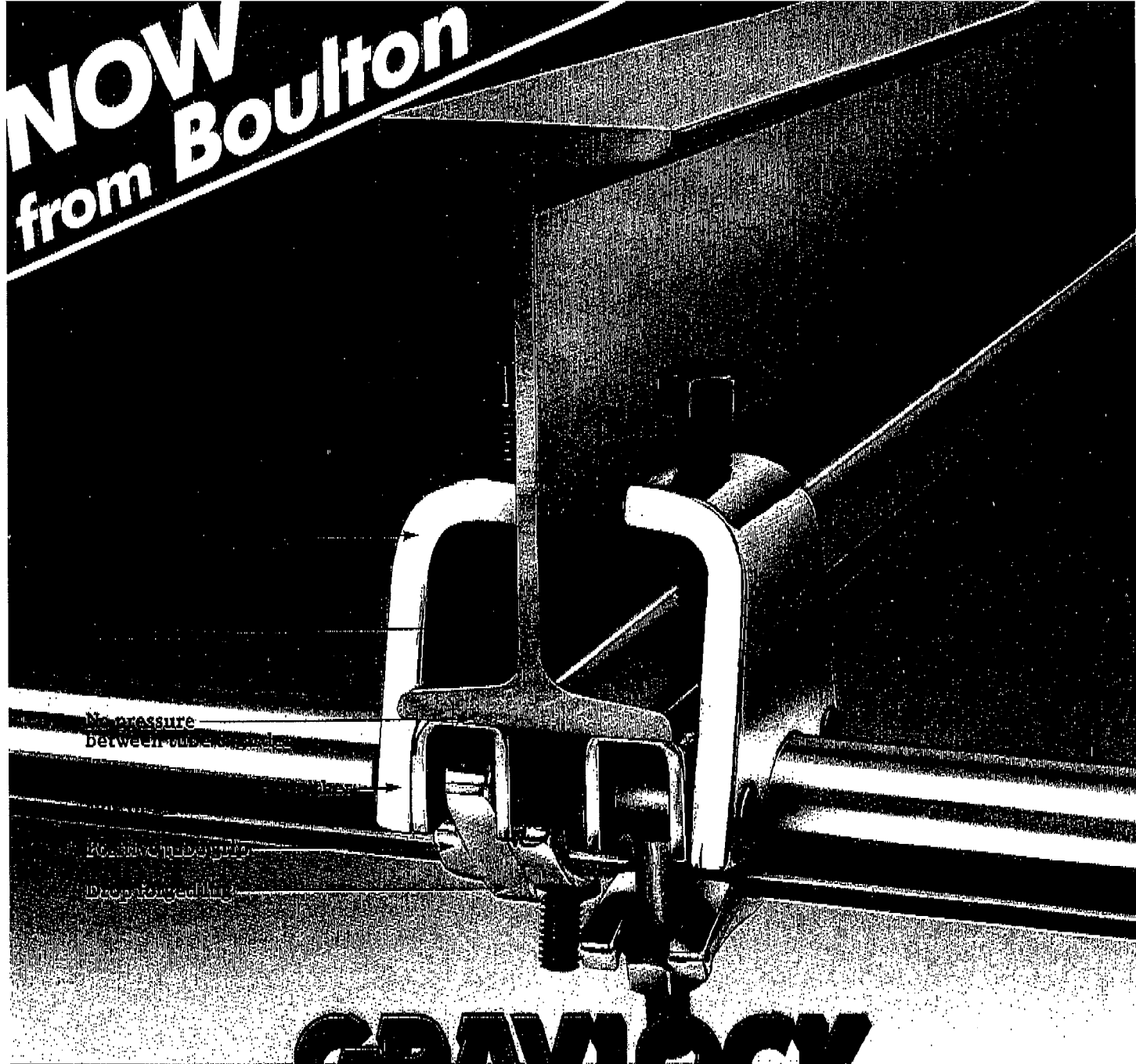


NOW
from **Boulton**



No pressure
between tube and
girder

Robust design
Drop forged high

GRAVLOCK

the high performance girder coupler

Boulton presents Gravlock, the high performance girder coupler.

When load tested on a horizontal girder, Gravlock couplers were superior to all other girder couplers, not only in terms of strength, but also in durability.

They have real GRIP – comfortably exceeding BS1139 slip requirements and when slip-load tested on a vertical column, they out-performed all known similar couplers.

VERSATILE

– a single Gravlock coupler can be used on any flange up to 45mm thick, a major advantage over competitive products in that both inventory stocks and costs are considerably lower. That versatility is further highlighted by the fact that for very little extra cost, the Gravlock can accommodate the largest girder on the market with no reduction in strength.

EFFICIENT

– allowing savings to be made in both time and money. The coupler is designed in order that it can be bolted at the girder first, leaving the erector with both hands free to present and secure the tube.

RESILIENT

– after all tests, Gravlock couplers emerged without damage and as there is no dependent pressure between tube and girder, the tube will not distort or flatten and therefore loosen.

DURABILITY

– Gravlock girder couplers are built to last and are fitted with top quality plated bolts and nuts and high tensile set screws. Quite simply they're THE BEST! Gravlock girder couplers – the performance heaters.

Patented in UK: No. 2075587.

NOTE – Gravlock girder couplers must always be used in pairs.

MAY 1996

Recommended Safe Working Loads on Boulton GRAVLOCK Girder Couplers

1. These recommendations are intended to give guidance to scaffold designers and users of Boulton Girder couplers. They are not intended as a design guide for scaffolding structures for which reference should be made to BS 5973 and BS 5975 - nor do they consider the effect on the connected structural sections for which reference should be made to BS 5950 and Eurocode 3.
2. Girder couplers are designed to connect BS 1139 scaffold tube to all types of structural sections (other than hollow sections) having a maximum flange thickness of 45 mm.
3. Girder couplers must always be used in pairs and additionally must be clamped on opposing sides of the structural section.
4. The following maximum safe working loads are calculated from a series of tests carried out both internally and by independent external testing organisations. The safety factors employed are in excess of those recommended by BS 5973: 1993, clause 39: 8: 2. (i.e. 2 to 1).
5. Safe Working Loads are in the direction of:-

'Y' Axis uniformly loaded 30 kN per pair.
'Y' Axis eccentrically loaded 15 kN on leading coupler.
(Hanging load on structural section)

'Z' Axis uniformly loaded 6.5 kN per pair
(Slip of tube through couplers)

'X' Axis uniformly loaded 10 kN per pair
(Slip of couplers along structural section).

For clarification the direction of the 'X', 'Y', 'Z' is shown on the following sketch.

6. For hanging structural applications in the Y Axis direction the scaffold fittings from the hanging tubes must be hard up against the GRAVLOCK couplers. (see sketch).

Note: This information supersedes any previous information provided by Boulton Scaffolding Ltd or SGB Youngman.

John R. E. Cornish C Eng MI Struct E
Chief Engineer

A division of SGB Services plc

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GRAVLOK Girder Couplers

