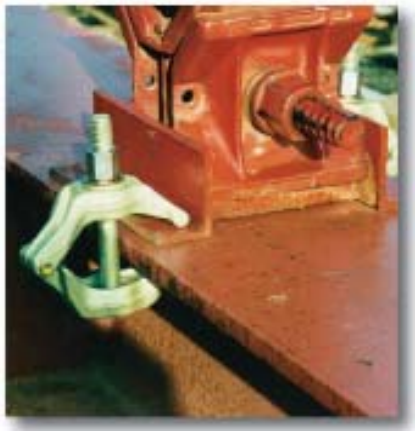
ISCHEBECK®
TITAN

Ischebeck Wedge Jack

for loads up to 224,800 lbs.

- exact adjustment in height
- estimated settlement
- no influence through water
- cheaper than hydraulic equipment
- easy and safe to handle



CONCRETE FORMING AND SUPPORTING SYSTEMS

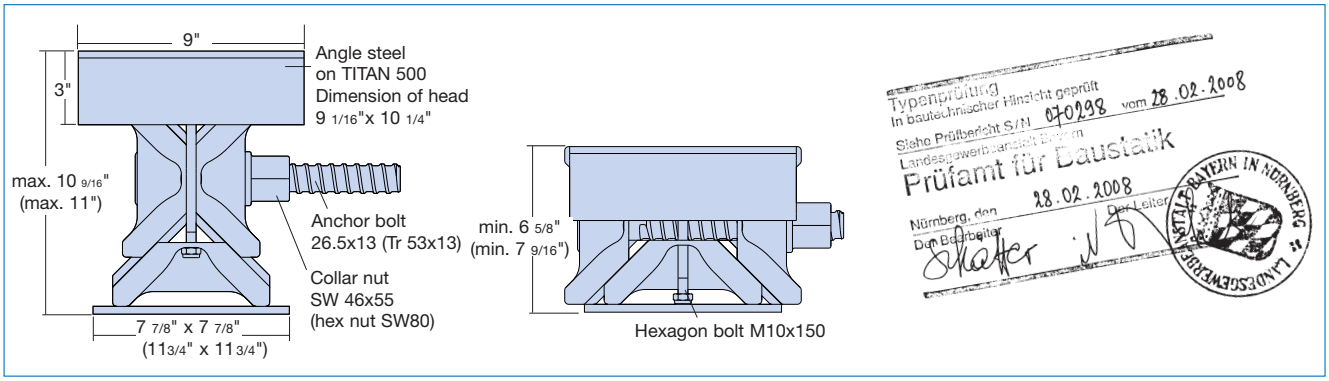
Wedge jacks are generally used for the support of beams and beam shoring or single rolled profile props or heavy duty shoring props. The item to be supported may be fastened to the wedge jack by means of connecting brackets. The wedge jack is placed on a surface as solid and flat as possible, such as a concrete foundation, a foundation beam or a steel bracket.
The wedge jack may be subjected to both centric and eccentric vertical forces, and to a small extent, also horizontal forces.
The load-bearing capacity of the wedge jack depends on the surrounding construction and how it has been placed there. Support conditions are governed by the foundation conditions and the connected elements or with the aid of technical applications.

Below maximum load, the wedge jack can be loosened by means of a ring spanner and a 5 lbs. hammer. For safety reasons, a wrench with a torque multiplier (preferably 1:15) is recommended when working on the shoring. The respective beams may be used for supporting the torque multiplier lever.

The wedge jacks can lift and adjust loads up to 9,000 lbs. The Ischebeck wedge jacks have been developed from the traditional sand support, in comparison with which, it has the following advantages:

- exact height adjustment
- data on load deformation properties
- insensitive to water

In comparison with spindle designs and hydraulic cylinders, the wedge jack is also capable of handling eccentric loads and horizontal forces within a certain limit. The wedge jacks are less expensive yet more solid than hydraulic equipment with the same load capacity.

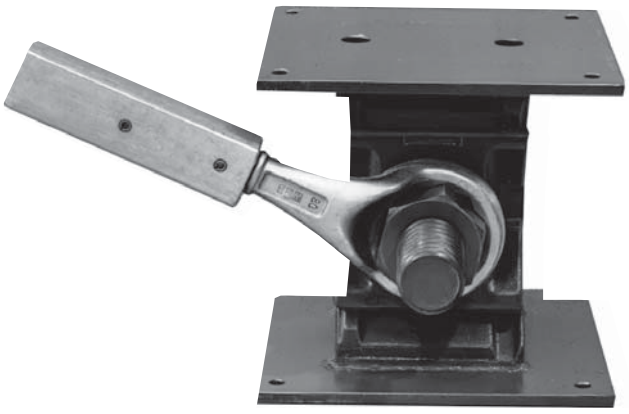


dimensions in ( ) = 1000 kN = 224,800 lbs. wedge jack

Technical data

Wedge jack	**TITAN 500**	**TITAN 1000**
Maximum load according to DIN 4421 and DIN 18800	For detailed information see method statement. The max. values depend on support conditions.	
Vertical load F_z max	max. 94,400 lbs.	max. 224,800 lbs.
Horizontal load F_x max, F_y max	0,11 – 0,14 x F_z	0,12 – 0,15 x F_z
Eccentricity e_x max, e_y max	1/2" – 1 3/16"	3/8" – 1"
Settlement	3/64" / 22,000 lbs	3/64" / 22,000 lbs
Adjustment range	6 5/8" – 10 9/16"	7 9/16" – 11"
Base plate area	7 7/8 " x 7 7/8 "	11 13/16" x 11 13/16"
Weight	65 lbs.	113,5 lbs.
For safety: The sliding surfaces of the wedges may not be lubricated.		

Lowering the wedge jack is possible with a ring spanner or a mechanical torque multiplier (valid for both type)



Wedge Jack TITAN 1000 with ring spanner

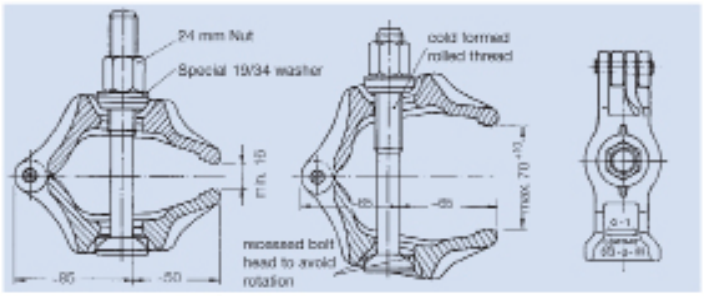
Wedge Jack TITAN 500 with mechanical torque multiplier

Universal Beam Clamp

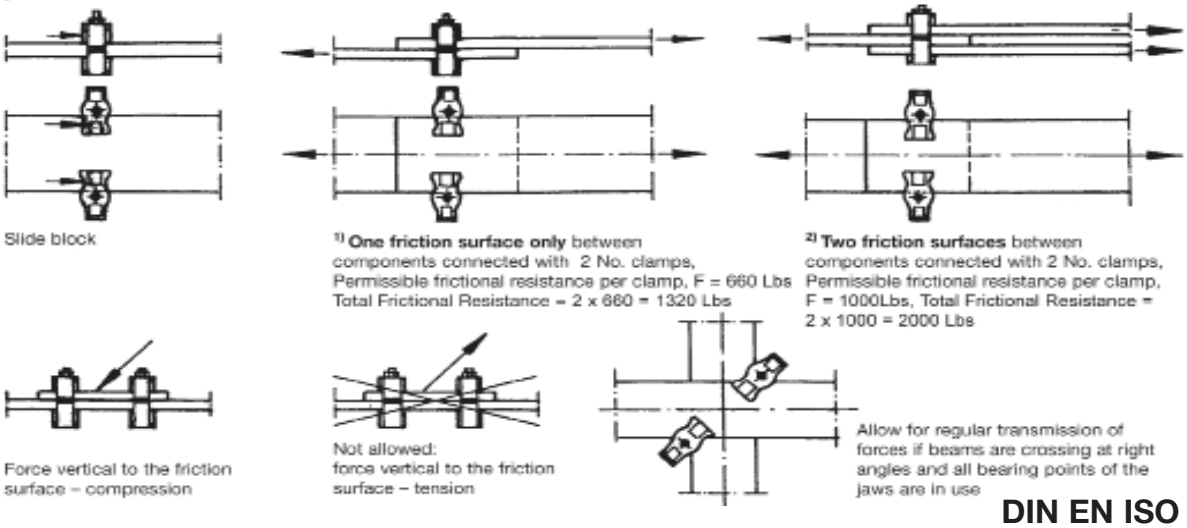
technical data

permissible frictional resistance F one friction surface only [1] two friction surfaces [2]	 660 Lbs 1000 Lbs
maximum number of working clamps in a line	5 No.
pre-stressing force	12,100 Lbs
tightening torque	1300 Lbs in
clamp adjustment	5/8 to 2 3/4"
weight	3.9 Lbs

A minimum of 2 No. beam clamps are required at each connection.



possible friction surface situations



Slide block

[1] **One friction surface only** between components connected with 2 No. clamps, Permissible frictional resistance per clamp, F = 660 Lbs Total Frictional Resistance = 2 x 660 = 1320 Lbs

[2] **Two friction surfaces** between components connected with 2 No. clamps, Permissible frictional resistance per clamp, F = 1000Lbs, Total Frictional Resistance = 2 x 1000 = 2000 Lbs

Force vertical to the friction surface – compression

Not allowed: force vertical to the friction surface – tension

Allow for regular transmission of forces if beams are crossing at right angles and all bearing points of the jaws are in use

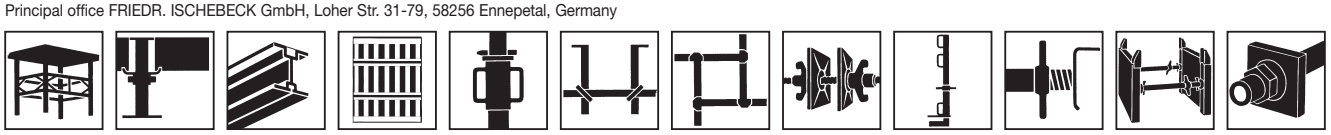
DIN EN ISO 9001

CERTIFIED QUALITY-SYSTEM DVS ZERT

DIN EN ISO 9001 / 2000
Zertifiziert durch DVS ZERT® e.V.
Registriernummer DE-96-010

ISCHEBECK® **. . . technically advanced formwork, shoring, trenching and geotechnical systems**

ISCHEBECK USA Inc.· 2770 South Horseshoe Drive Suite 5 · NAPLES, FL 34104
TEL. 239 403 8522 · FAX. 239 403 8146 · E-MAIL: info@ischebeckusa.com · www.ischebeck.com
Principal office FRIEDR. ISCHEBECK GmbH, Loher Str. 31-79, 58256 Ennepetal, Germany



Megashore | HV System | Slabforming Systems | Wallform | Props | Beam Forms | Column Forms | Formwork Ties | Rail Posts | Struts | Trenching Systems | Geotechnical Systems