

# LTS "Half-turn" Mechanical Die Clamp

Since 1993 our patented internal locking mechanism has been proven safe and effective in the workplace. Let us help you reduce your clamping time by up to 90%!

## Economical

The LTS "Half-turn" Mechanical Die Clamp provides quick clamping costing up 75% less than hydraulic clamping and significantly lower than competing mechanical clamps. The patented locking mechanism requires only one-half turn to securely lock and one-half turn to unlock.

## No Oil Leaks

The Original "Half-turn" Mechanical Die Clamp is all mechanical, eliminating hydraulic leaks and possible hazardous waste problems, and still reduces overall clamping time by up to 90%!

## Strong & Lightweight

Engineered for strength and built with the highest quality components on the market, our "Half-turn" Mechanical Die Clamp provides clamping forces from 4.8 to 21 tons. This clamp also features a lightweight design - the largest clamp weighing only 6.5 lbs.

### Flange Nut

The flange nut is made of chrome/moly, alloy steel, and is designed to exceed the Grade #8 Bolt Specification by 20-25%

### Clamp Bar

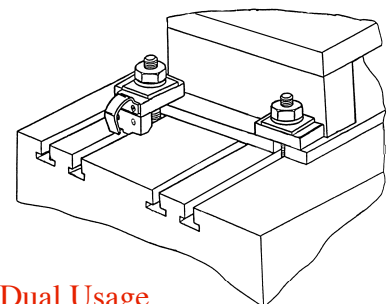
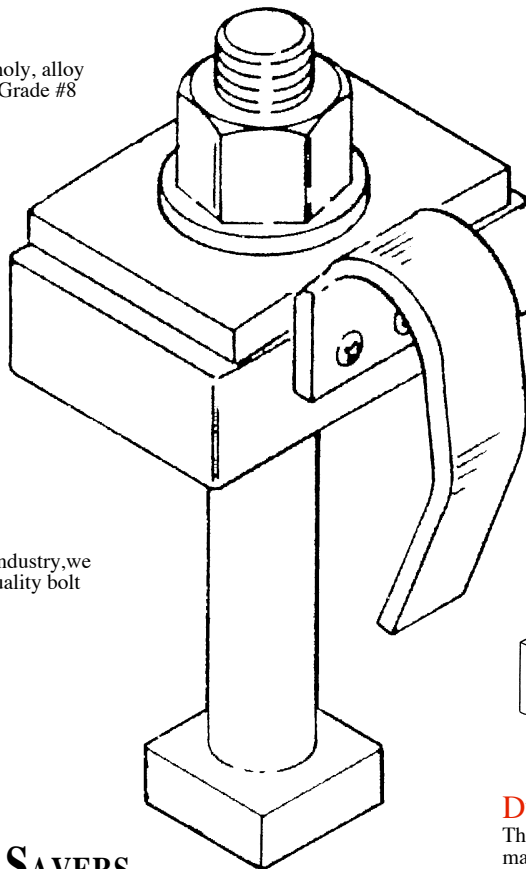
The clamp bar is drop-forged and heat treated to provide toughness, and includes a special high-hardness finish for wear resistance.

### Bolt

Time-tested in the automotive industry, we carefully selected the highest quality bolt available on the market.

### Handle

For ease of insertion and removal, an optional handle is offered. The handle is only recommended when it is deemed safe and where it causes no interference.



### Dual Usage

The addition of an optional HeelBlock matched to your die shoe thickness allows use with slotted or unslotted die shoes.

**LIGHTNING TIME SAVERS**

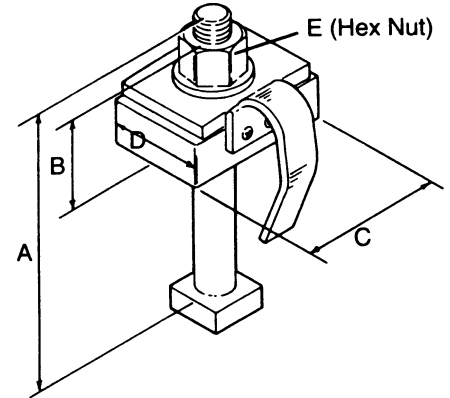
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Patented February, 1994  
Made In U.S.A

# Clamp Specifications

Clamp Dimensions in Inches

Model Number	"T"-slot size	Clamping Force at One-Half Turn	A	B	C	D	E
QDC-101	1"	17 tons	7	2.400	3.500	2.500	1.625
QDC-101B	1"	11 tons	7	2.400	3.500	2.500	1.625
QDC-101H	1"	17 tons	7	2.400	3.500	2.500	1.625
QDC-101BH	1"	11 tons	7	2.400	3.500	2.500	1.625
QDC-151	1"	15 tons	6	2.300	3.125	2.125	1.438
QDC-151B	1"	9 tons	6	2.300	3.125	2.125	1.438
QDC-151H	1"	15 tons	6	2.300	3.125	2.125	1.438
QDC-151BH	1"	9 tons	6	2.300	3.125	2.125	1.438
QDC-201	3/4"	12 tons	5	2.300	3.125	2.125	1.250
QDC-201B	3/4"	7 tons	5	2.300	3.125	2.125	1.250
QDC-201H	3/4"	12 tons	5	2.300	3.125	2.125	1.250
QDC-201BH	3/4"	7 tons	5	2.300	3.125	2.125	1.250
QDC-251H	5/8"	8 tons	4	1.625	2.375	1.625	1.062
QDC-251BH	5/8"	4.8 tons	4	1.625	2.375	1.625	1.062



LTS can provide bolt lengths greater than standard sizes. To calculate bolt length needed, add T-slot dimension B, die shoe thickness, and B dimension in inches for nut assembly. If this overall dimension is greater than the standard bolt length A, customer needs to specify.

Model Number Key: B - Heel Block; H - Handle; BH - Handle and Heel Block

The QDC-151 series clamp has 7/8-inch threads on a bolt designed for a 1-inch "T"-slot, complete with our patented clamp bar assembly. The QDC-101 series clamp is a standard 1-inch bolt with heavy duty clamp designed for the large dies typical in the automotive industry.

## Customer Application Information

When ordering or requesting a quote, please take a few minutes to complete the following data.

Press tonnage: \_\_\_\_\_ Clearance between ram and bolster (shut height): \_\_\_\_\_ in.

Die weights: Top: \_\_\_\_\_ lbs, Bottom: \_\_\_\_\_ lbs.

These clamps will be used to: (check one) ☐ Edge clamp (requires a Heel Block)

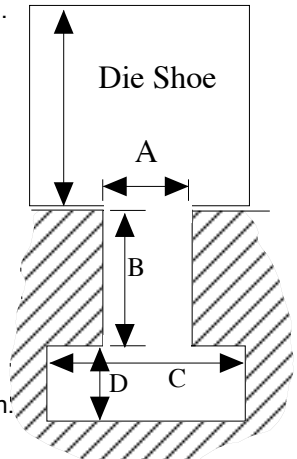
☐ Clamp in a slot on the die

## Your "T"-slot Dimensions and Clamp Height

Die shoe thickness (clamping height) Min.: \_\_\_\_\_ Max.: \_\_\_\_\_ in.

Width of throat (A) \_\_\_\_\_ in. Width of head (C) \_\_\_\_\_ in.

Depth of throat (B) \_\_\_\_\_ in. Depth of head (D) \_\_\_\_\_ in.



Represented by:

## Standard "T"-slot Dimensions and Tolerances (in Inches)

Diameter of "T"-Bolt	Width of Throat (A)	Depth of Throat (B)	Width of Head (C)	Depth of Head (D)
5/8"	0.6875	0.438 to 0.875	1.188 to 1.250	0.453 to 0.484
3/4"	0.8125	0.563 to 1.063	1.375 to 1.469	0.594 to 0.625
1"	1.0625	0.750 to 1.250	1.750 to 1.844	0.781 to 0.828