Hand-Held Clinching Presses

Manually Positioned Units for Clinching Sheet Metal Parts

> BATTERY



> AIR/OIL



> HYDRAULIC



BTM® KOREA

www.BTMKOREA.com

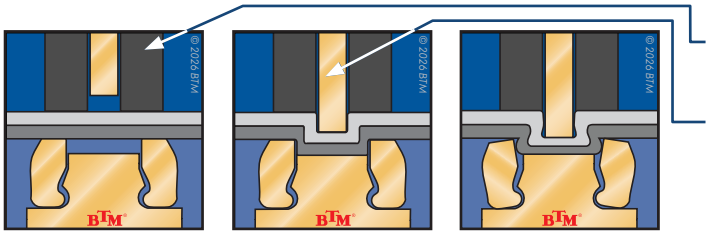
031-477-4202

WHAT IS CLINCHING

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

BTM Tog-L-Loc® and related clinching tools economically join sheet metal without the expense of welding or purchased fasteners by simply joining the part's own material! Assembly cost is significantly reduced by drawing and forming the part material into an interlock. Join galvanized, pre-painted, or even dissimilar metal combinations using an environmentally friendly process that does not produce sparks, fumes or harmful heat!

HOW A TYPICAL BTM CLINCH JOINT IS MADE:



Step 1: Clamps Step 2: Draws Step 3: Locks

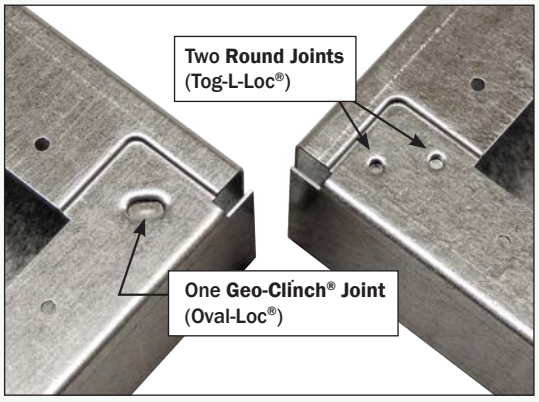
Step 1: Clamps
The stripper clamps the materials to be joined.

Step 2: Draws
The punch draws the material into the die.

Step 3: Locks
As the material flows into the die, the sides of the die expand, allowing the material to flow into an interlock.

	ROUND JOINTS		Geo-Clinch® JOINTS	
	 Tog-L-Loc®	 V-Loc™	 Oval-Loc®	 Lance-N-Loc®
Ideal for joining:	Mild Steel	Aluminum	Mild Steel	Harder Metals
Leak-Proof	Yes	Yes	Yes	No
Single Joint Rotation Resistance?	No	No	Yes	Yes

Tog-L-Loc® and V-Loc™ clinch joints are the most widely used. These round clinch joints have very good strength across a broad spectrum of material combinations, are aesthetically pleasing and at low cost. V-Loc™ performs especially well when joining combinations of aluminum. BTM round clinch joints are an economical solution to fastening sheet metal parts. However, round joints, while most popular, have the ability to rotate when used singularly, so BTM also offers Geo-Clinch® joints.



Geo-Clinch® JOINTS

BTM Geo-Clinch® joints resist rotation, and also have the added benefit of increasing the rigidity of a sheet metal assembly.

Geo-Clinch® joints set the combined geometry of two separate parts in an assembly as required by GD&T. This makes Geo-Clinch® joints ideal for use in Geo-Set applications.

BTM reserves the right to make changes to its literature without any prior notice. Visit **btmcomp.com** for latest version.
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HAND-HELD UNITS

BTM Hand-Held Clinching Presses provide an inexpensive way to begin reducing the cost of assembling your product and can serve as an affordable stepping stone to higher production from a more automated machine. Our broad range of standard Hand-Held units are designed to fit a wide range of part designs and production requirements or we can easily modify an existing press to meet your unique part design.

BATTERY POWERED PRESSES

Compact Battery Clinch Press



See PAGE 5-6 For More Information

Clinch Joint Type	Round
Tool Sizes	3.0, 3.8, 4.6
Max. Combined Material Thickness	3.5mm [.14"]
Opening	6mm [.25"]
Throat Depth	Varies per C-Frame
Trigger Type	Single
Battery Type	18V/1.5Ah Lithium-Ion
Charging Time	Approximately 30 Minutes
Press Force	45kN [5 Ton]
Cycle Time	Contact BTM
Unit Weight	Varies with C-Frame

Battery Clinch Press



See PAGE 7-8 For More Information

Clinch Joint Type	Round
Tool Sizes	3.0, 3.8, 4.6, 5.5
Max. Combined Material Thickness	3mm [.14"]
Opening	16mm [.63"]
Throat Depth	Varies per C-Frame
Trigger Type	Single
Battery Type	18V/3 Ah Lithium-Ion
Charging Time	Approximiately 45 Minutes
Press Force	60kN [6.5 Ton]
Cycle Time	Contact BTM
Unit Weight	Varies with C-Frame

AIR/OIL BOOSTER POWERED PRESSES

Duroloc7



See PAGE 9-10 For More Information

Clinch Joint Type	Round
Tool Sizes	3.8, 4.6
Max. Combined Material Thickness	2mm [.08"]
Opening	6mm [.25"]
Throat Depth	38mm [1.50"]
Trigger Type	Single
Max. Operating Pressure	345 BAR [5000 PSI]
Press Force	32kN [3.6 Ton]
Cycle Time	1 second
Unit Weight	5.6 kg [12.4 lbs]

Air/Oil Booster



See PAGE 11 For More Information

Booster Ratio	61:1
Weight (without hose)	8.2kg [18 lbs]
Maximum Output	337 BAR [4880 PSI] @ 5.5 BAR [80 PSI]

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

HYDRAULIC POWERED PRESSES

7007 Press



See PAGE 12-13 For More Information

Clinch Joint Type	Round, Geo-Clinch®
Round Tool Sizes	3.0, 3.8, 4.6
Geo-Clinch® Tool Sizes*	TLO-3x6; LL-3.0, LL-3.8
Max. Combined Material Thickness	4mm [.16"]
Opening	M Anvil - 33mm [1.30"] N Anvil - 29.3mm [1.15"]
Stroke	M Anvil - 35mm [1.38"] N Anvil - 32mm [1.26"]
Throat Depth	50mm [1.97"]
Trigger Type	Dual
Operating Pressure	175 BAR [2500 PSI]
Press Force	35kN [3.9 Ton]
Cycle Time	2 sec.
Unit Weight (Round Clinch Assembly)	11.3 kg [25 lbs]

*Geo-Clinch® Units By Special Order. Contact BTM

Heavy Duty 7007 Press



See PAGE 14-15 For More Information

Clinch Joint Type	Round
Tool Size	5.5
Geo-Clinch® Tool Sizes*	TLO-4x8; LL-4.6
Max. Combined Material Thickness	5.5mm [.22"]
Opening	33.8mm [1.33"]
Stroke	35mm [1.38"]
Throat Depth	75mm [2.95"]
Trigger Type	Dual
Operating Pressure	175 BAR [2500 PSI]
Press Force	54kN [6.1 Ton]
Cycle Time	2 sec.
Unit Weight (Round Clinch Assembly)	22 kg [49 lbs] - 24 kg [53 lbs]

*Geo-Clinch® Units By Special Order. Contact BTM

HYDRAULIC PUMP

HydroPak1.2



See PAGE 16 For More Information

Flow Rate	9.5 LPM @ 45 BAR [2.5 GPM @ 650 PSI] 2.3 LPM @ 172 BAR [0.6 GPM @ 2500 PSI]
Motor Size	1.5 HP
Electrical Supply	120 volt 60 HZ single phase 16 amp
Power Consumption	1920 watts
Maximum Pressure	207 BAR [3000 PSI]
Working Pressure	45/172 BAR [650/2500 PSI]

OPTIONAL EQUIPMENT

Rotation Mounts



Duroloc7



7007 Press

See PAGE 17 For More Information

Spring Balancers



See PAGE 18 For More Information

ORDERING AND PRODUCT QUESTIONS

Global Operations Sales Support Teams

See Back Cover For More Information

COMPACT BATTERY CLINCH PRESS

ULBG452/PD3180



To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

The lightweight and easy-to-position Compact Battery Clinch Press is ideal for low volume sheet metal repair work and/or when utility electricity is not available.

The "C" frame can be rotated relative the trigger for easy selection of an ergonomic operating position.

The stroke is activated by one push button and the return is initiated automatically once a joint has been completed. The advance stroke can be interrupted at any time.

The units are powered by efficient lithium-ion rechargeable batteries but an optional AC power supply cable for all common voltage systems is available.

Up to 30,000 clinches can be made between service intervals. Contact BTM for more information.

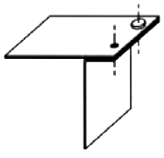
Opening	6mm [.25"]
Throat Depth	Varies with C-Frame
Trigger Type	Single
Battery Type	18V/1.5Ah Lithium-Ion
Charging Time	Approximately 30 Minutes
Press Force	45kN [5 Ton]
Cycle Time	Contact BTM
Unit Weight	Varies with C-Frame
Max. Combined Material Thickness	3.5mm [.14"]

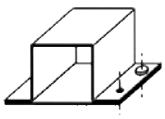
Clinch Joint Type	Round		
Tool Size(s)	3.0	3.8	4.6

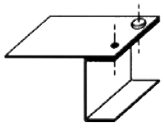
A BATTERY OPERATED UNIT IS BEST WHEN:

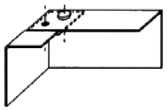
- ***An edge of a part is being joined.***
- ***No access to a power source is available.***
- ***A light-weight and ergonomic tool is desired.***
- ***A high degree of mobility is required.***

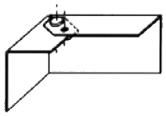
EXAMPLE CLINCHING APPLICATIONS:

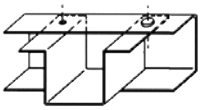
1

Outside Edge Flange

2

Hat on Sheet

3

"U" and Sheet

4

Full Corner Joggle Overlap

5

45° Corner Overlap

6

Hat Inside "U"

HOW TO ORDER

! It is recommended that you **contact a BTM sales engineer** prior to purchasing a hand-held unit to determine the optimal tooling configuration for your application.

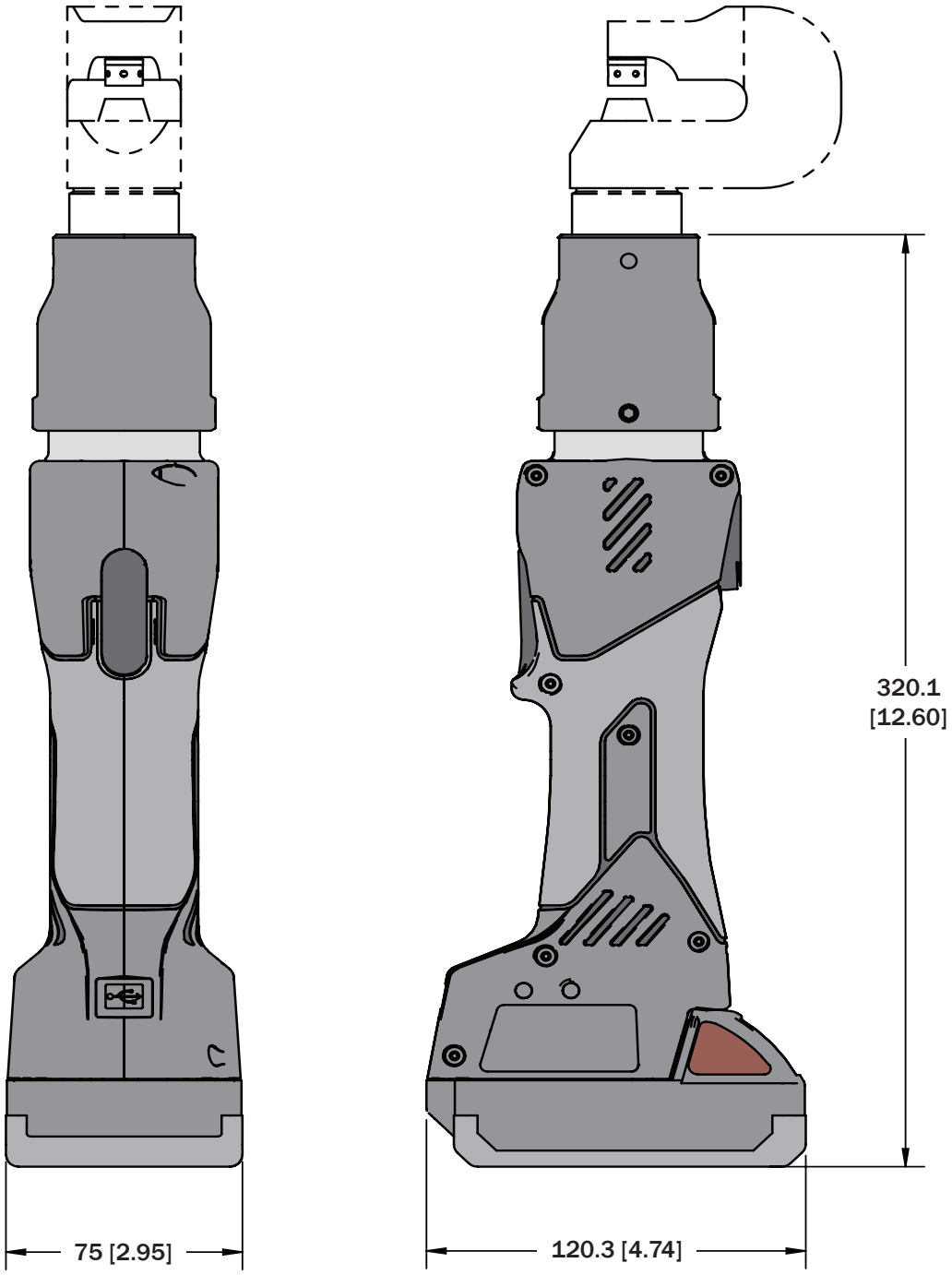
Battery Clinch Press Includes:
- One Rechargeable Battery
- One Battery Charger

Tooling Not Included

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

COMPACT BATTERY CLINCH PRESS

ULBG452/PD3180



BATTERY CLINCH PRESS

ULBG602/PD3691

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

This Battery Clinch Press is powerful enough to make 5.5 size Tog-L-Loc® joints in most common sheet metal thicknesses.

The unit operates by a single push button, is lightweight, ergonomic and has a robust design suited for the construction site. This Battery Clinch Unit is ideal for low volume sheet metal repair work and/or when utility electricity is not available.

The "C" frame can be rotated relative the trigger for easy selection of an ergonomic operating position.

The units are powered by efficient lithium-ion rechargeable batteries but an optional AC power supply cable for all common voltage systems is available.

Up to 30,000 clinches can be made between service intervals. Contact BTM for more information.



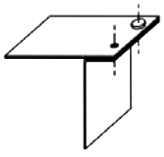
Opening	16mm [.63"]
Throat Depth	Varies per C-Frame
Trigger Type	Single
Battery Type	18V/3 Ah Lithium-Ion
Charging Time	Approximately 45 Minutes
Press Force	60kN [6.5 Ton]
Cycle Time	Contact BTM
Unit Weight	Varies with C-Frame
Max. Combined Material Thickness	3.5mm [.14"]

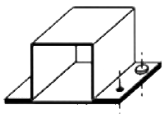
Clinch Joint Type	Round			
Tool Size(s)	3.0	3.8	4.6	5.5

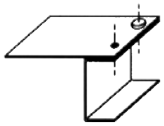
A BATTERY OPERATED PRESS IS BEST WHEN:

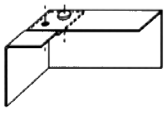
- ***An edge of a part is being joined.***
- ***No access to a power source is available.***
- ***A light-weight and ergonomic tool is desired.***
- ***A high degree of mobility is required.***

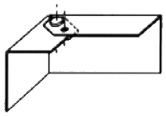
EXAMPLE CLINCHING APPLICATIONS:

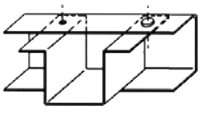
1

Outside Edge Flange

2

Hat on Sheet

3

"U" and Sheet

4

Full Corner Joggle Overlap

5

45° Corner Overlap

6

Hat Inside "U"

HOW TO ORDER

! It is recommended that you **contact a BTM sales engineer** prior to purchasing a hand-held unit to determine the optimal tooling configuration for your application.

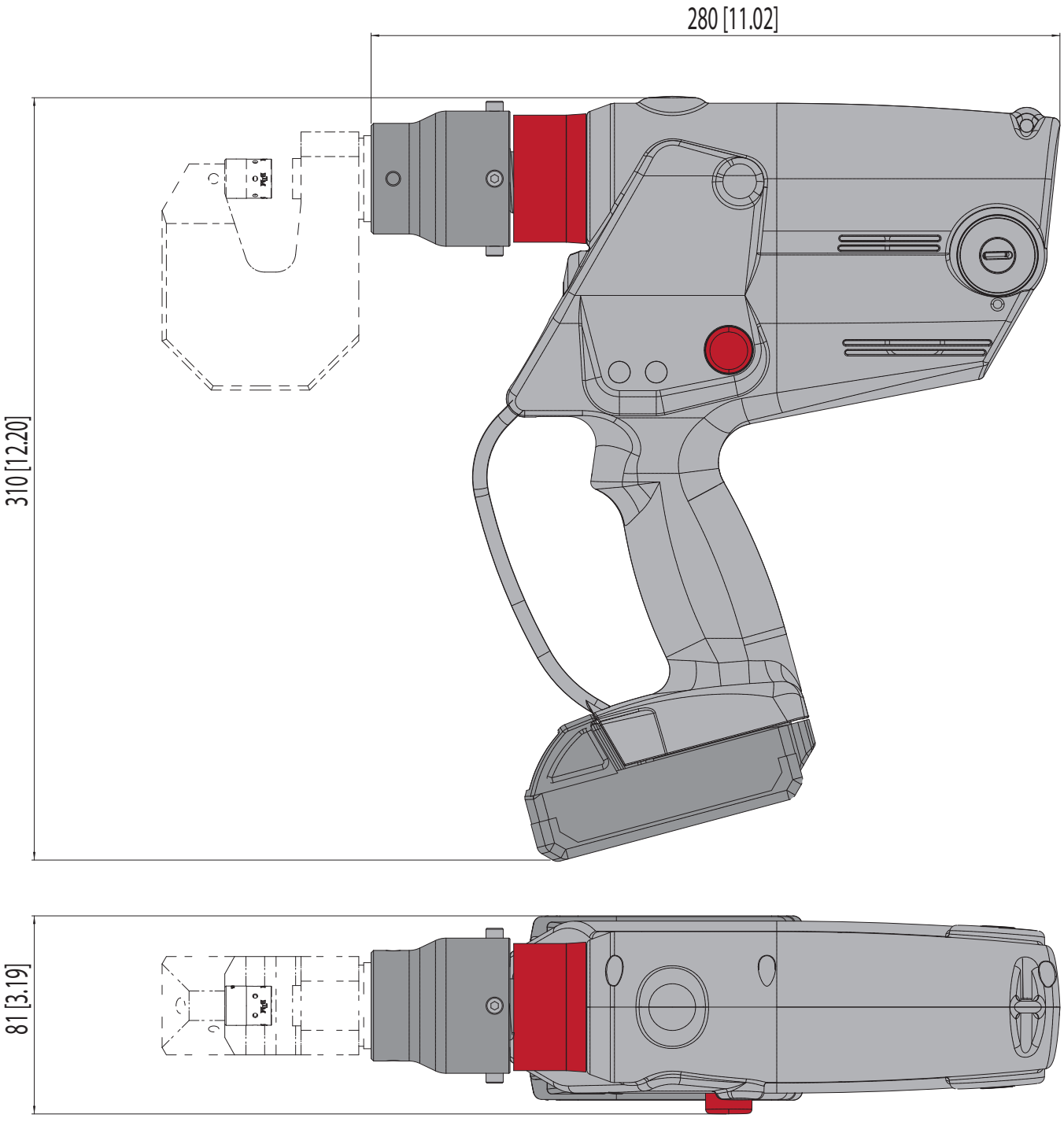
Battery Clinch Press Includes:
- One Rechargeable Battery
- One Battery Charger

Tooling Not Included

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

BATTERY CLINCH PRESS

ULBG602/PD3691



DUROLOC7 PRESS

PD2815

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

The Duroloc7 clinching press features easy to adjust shut height and interchangeable anvils. Shut height cartridges easily swap to accommodate required material thickness ranges. Interchangeable anvils accommodate a wider range of part cross sections. Duroloc7 units are sold separately or as a complete system including a hose and air/oil booster. Hangers and balancers are also available for assisting operator productivity.

A DUROLOC7 IS BEST WHEN:

- ***More tooling options are required.***
- ***The part being joined has a small lip, or flange.***



(Unit Shown with Optional 360° Hanger.)

15cc Booster
Use with Duroloc7 Units



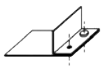
(See page 11)

Opening	6mm [.25"]
Throat Depth	38mm [1.50"]
Trigger Type	Single
Maximum Operating Pressure	345 BAR [5000 PSI]
Press Force	32kN [3.6 Ton]
Cycle Time	1 second
Unit Weight	5.6 kg [12.4 lbs]
Maximum Combined Material Thickness	2mm [.08"]

Clinch Joint Type	Round	
Tool Size(s)	3.8	4.6

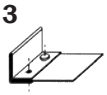
EXAMPLE CLINCHING APPLICATIONS:

1 Overlap

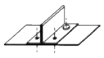


2 Angle and Sheet

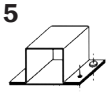
3 Angle and Sheet Sandwich



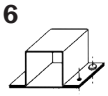
4 "T" and Sheet



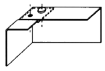
5 Outside Edge Flange



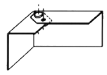
6 Hat on Sheet



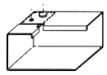
7 Full Corner Joggle Overlap



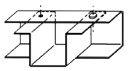
8 45° Corner Overlap



9 Corner Joggle Overlap w/ Ret. Flange



10 Hat Inside "U"



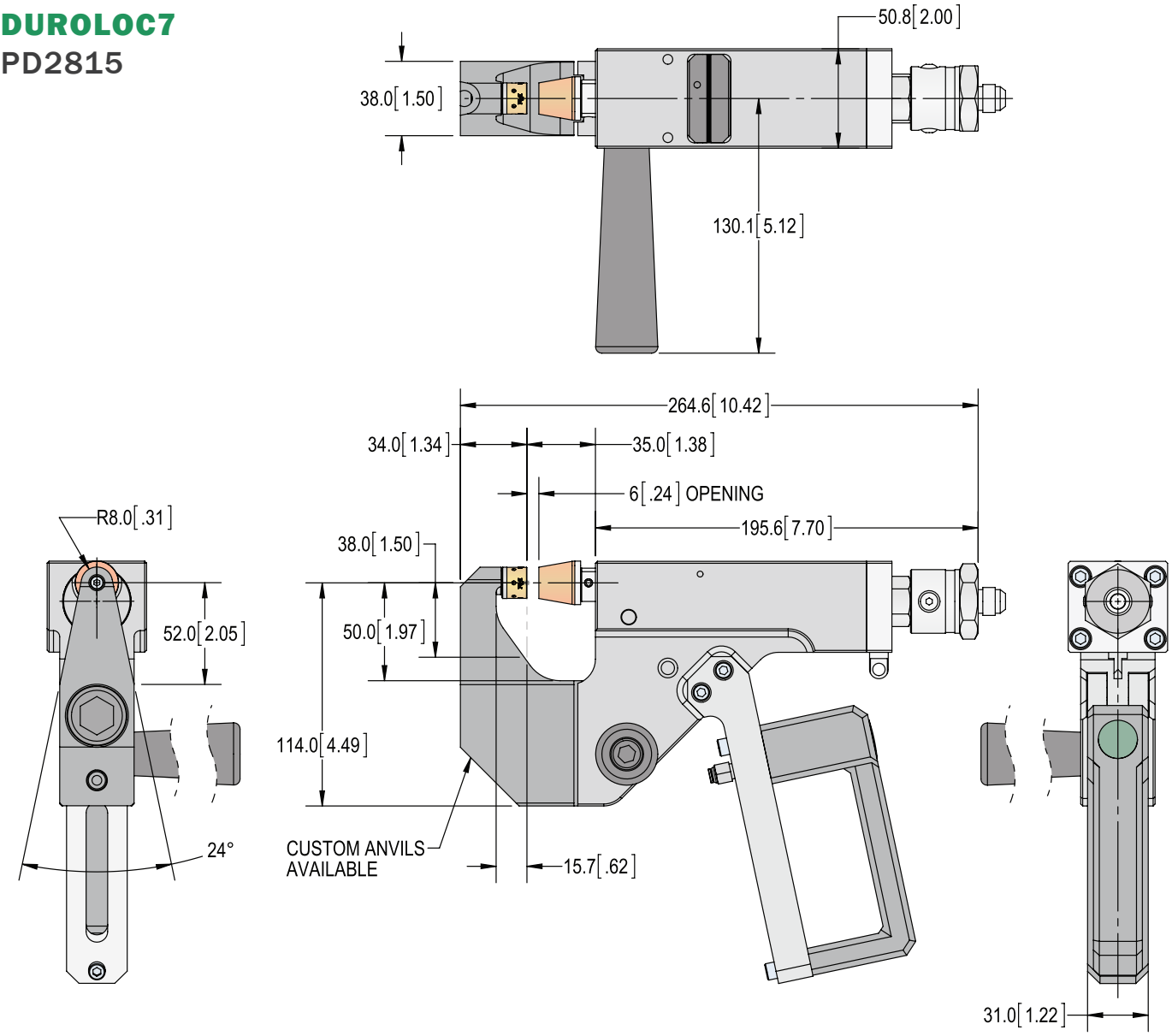
HOW TO ORDER

! It is recommended that you **contact a BTM sales engineer** prior to purchasing a hand-held unit to determine the optimal tooling configuration for your application.

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

Complete System		Individual Unit	Hose Assembly	Booster	Optional Rotation Hanger	Spring Balancer
PD296200A **Includes:** • A Duroloc7 (PD281500A) • 15cc Booster (PD238100A) • 3 Meter Hose Assembly (711100C) *Tooling & Spring Balancer Not Included*	**OR**	**PD281500A** *Tooling Not Included*	3 Meter [10 Foot] Hose 711100C	15cc Booster (See page 11) PD238100A	360° Hanger (See page 17) PD281500J **OR** 180° Hanger (See page 17) PD281500R	6-10 kg [13.3-22 lbs] *(Unit or Unit + 360° Hanger)* (See page 18) 051898 **OR** 9-14 kg [20-30 lbs] *(Unit + 180° Hanger)* (See page 18) 024049

DUROLOC7
PD2815

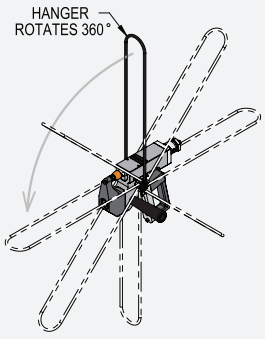


OPTIONAL ROTATION HANGERS

(See page 17)

360° HANGER

This hanger allows a Duroloc7 to rotate a full 360° on a single axis.



Weight *(without Unit)*	0.37 kg [0.82 lbs]

180° HANGER

This hanger allows a Duroloc7 to rotate 180° on a single axis.

Weight *(without Unit)*	3.4 kg [7.5 lbs]



15CC AIR/OIL BOOSTER

PD3687

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

A self-contained power package requires only one pneumatic supply line.

Booster Ratio	61:1
Weight (without hose)	8.2kg [18 lbs]
Maximum Output	337 BAR [4880 PSI] @ 5.5 BAR [80 PSI]

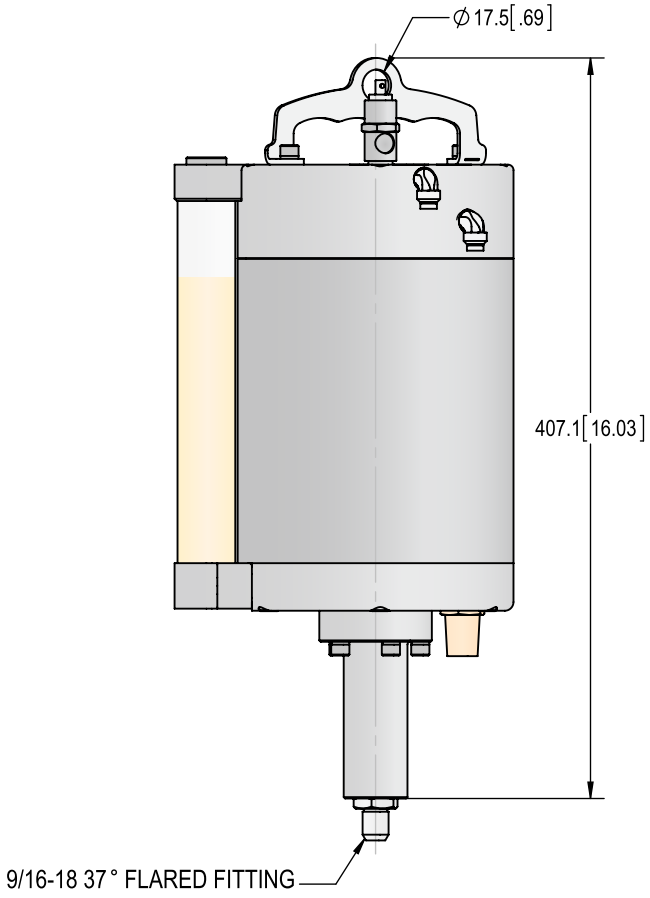
Air Pressure In		→	Hydraulic Pressure Out	
BAR	PSI		BAR	PSI
2.8	40		168	2440
3.4	50		210	3050
4.1	60		252	3660
4.8	70		294	4270
5.5	80		337	4880



PRESS COMPATIBILITY



Duroloc7
(See page 9)



HOW TO ORDER

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

BTM NUMBER
PD238100A

Hose Assembly Not Included.

7007 PRESS
PD3687

These hydraulic hand operated presses are most commonly used for prototyping & small to medium production runs.

A standard 7007 is available in one of two different anvil styles The style of anvil required depends on the design of part being joined.

These units feature a dual handled design with two operation triggers. Both triggers must be pressed in order to open, close, and cycle the unit.

THE 7007 IS BEST WHEN:

- ***More force than booster units provide is required.***
- ***A compact unit for easier positioning is needed.***

Opening	M Anvil - 33mm [1.30"] N Anvil - 29.3mm [1.15"]
Stroke	M Anvil - 35mm [1.38"] N Anvil - 32mm [1.26"]
Peck Stroke	6mm [.25"]
Throat Depth	50mm [1.97"]
Trigger Type	Dual
Operating Pressure	175 BAR [2500 PSI]
Press Force	35kN [3.9 Ton]
Cycle Time	2 seconds
Unit Weight	11.3kg [25lbs]
Maximum Combined Material Thickness	4mm [.16"]



HydroPak1.2
Hydraulic Pump
Use with 7007 Units



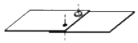
(See page *16*)

Clinch Joint Type			
Round Tool Sizes	3.0	3.8	4.6
Geo-Clinch® Tool Sizes*	TLO-3x6	LL-3.0	LL-3.8

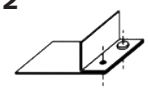
*Geo-Clinch® Units By Special Order. Contact BTM

EXAMPLE CLINCHING APPLICATIONS:

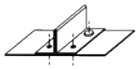
1 Overlap



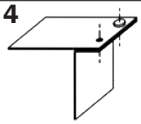
2 Angle and Sheet



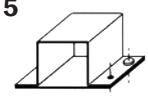
3 "T" and Sheet



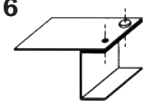
4 Outside Edge Flange



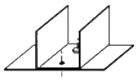
5 Hat on Sheet



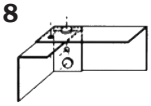
6 "U" and Sheet



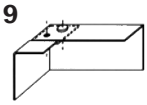
7 Square Tube and Sheet



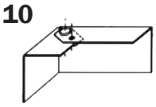
8 Two Piece Full Corner Overlap



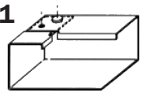
9 Full Corner Joggle Overlap



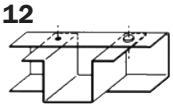
10 45° Corner Overlap



11 Corner Joggle Overlap w/ Ret. Flange



12 Hat Inside "U"



HOW TO ORDER

! It is recommended that you **contact a BTM sales engineer** prior to purchasing a hand-held unit to determine the optimal tooling configuration for your application.

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

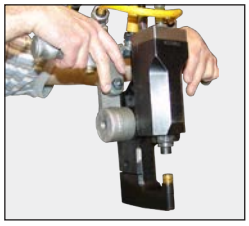
Individual Unit	Hydraulic Pump	Hose Assembly	Optional Gimbal Mount	Spring Balancer
SEE PAGE 13 *Tooling Not Included*	**HydroPak1.2** (See page 16) **PD366000A**	**6.1 Meter [20 Foot]** **PD377600A**	**Allows 360° Rotation On 3 Axis** (See page 17) **700600G**	**9-14 kg [20-30 lb]** *(For 7007 Only)* (See page 18) **024049** **OR** **13-17 kg [29-37 lb]** *(For 7007 + Gimbal Mount)* **024050**

7007 UNIT

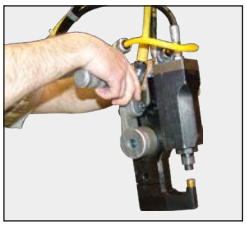
PD3687

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

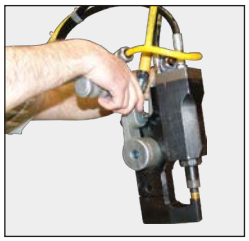
USING THE PRESS

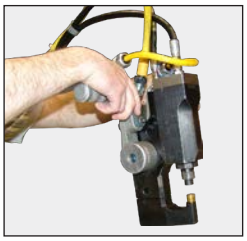


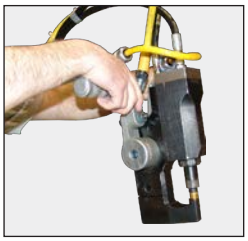
Both triggers must be depressed to close the unit and operate the peck cycle.

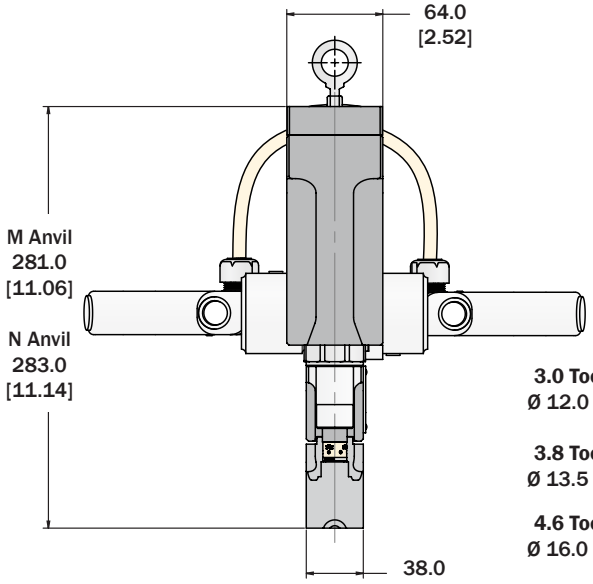


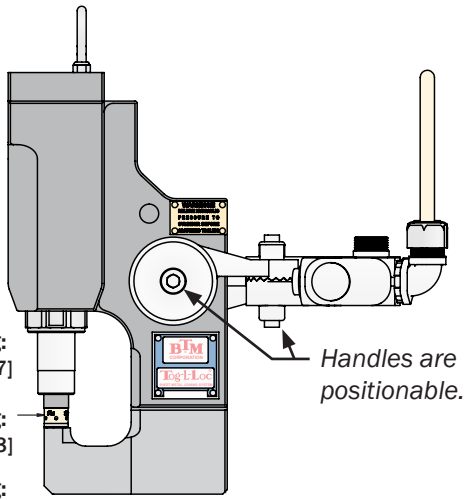
The peck cycle feature allows joints to be created faster.



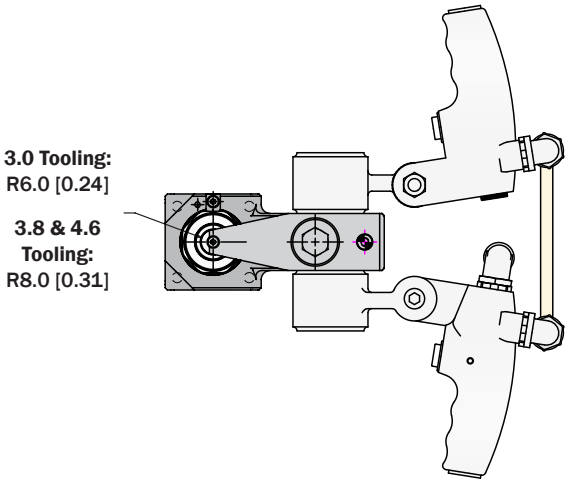






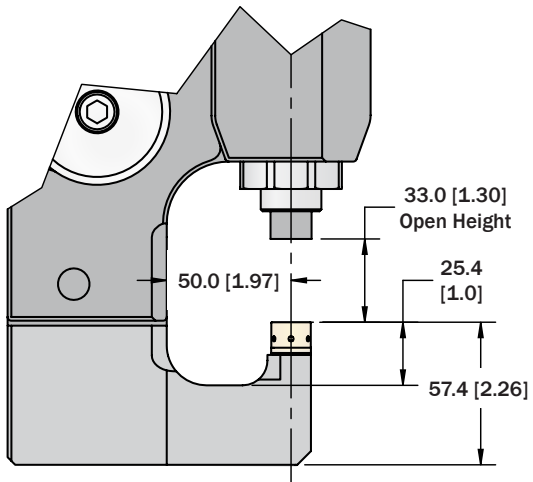


(Unit Shown with Anvil "M")



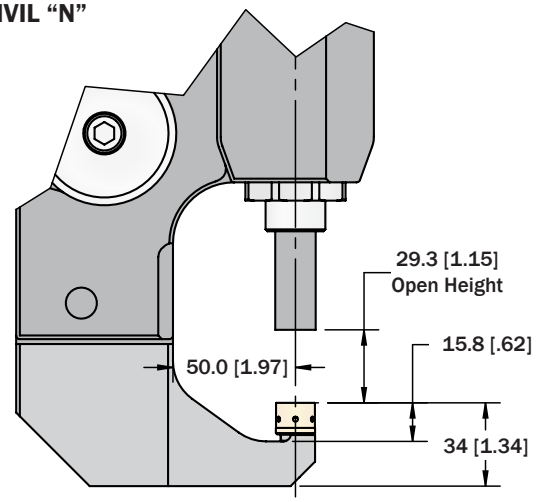
7007 ANVILS

ANVIL "M"



BTM NUMBER	
7007 STYLE "M" TL-4.6	PD368700A

ANVIL "N"



BTM NUMBER	
7007 STYLE "N" TL-4.6	PD368800A

HEAVY DUTY 7007 PRESS
PD3834

These hydraulic hand operated presses are most commonly used for prototyping & small to medium production runs.

A standard Heavy Duty 7007 Press is available in one of two different anvil styles The style of anvil required depends on the design of part being joined.

This unit is designed to operate with 5.5 size tooling.

Opening	33.8mm [1.33"]
Stroke	35.0mm [1.38"]
Peck Stroke	6mm [.25"]
Throat Depth	75mm [2.95"]
Trigger Type	Dual
Operating Pressure	175 BAR [2500 PSI]
Press Force	54kN [6.1 Ton]
Cycle Time	2 sec.
Unit Weight	22-24kg [49-53lbs]
Maximum Combined Material Thickness	5.5mm [0.22"]



HydroPak1.2
Hydraulic Pump
Use with all 7007 Units



(See page 16)

THE HEAVY DUTY 7007 IS BEST WHEN:

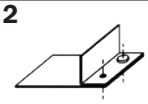
- ***5.5 size round tooling is required.***
- ***More force is needed than the 7007 provides.***

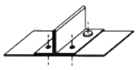
Clinch Joint Type		
Round Tool Sizes	5.5	
Geo-Clinch® Tool Sizes*	TLO-4x8	LL-4.6

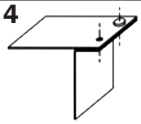
*Geo-Clinch® Units By Special Order. Contact BTM

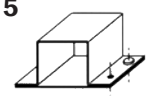
EXAMPLE CLINCHING APPLICATIONS:

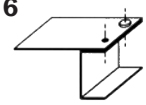
1 Overlap

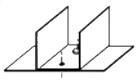

2 Angle and Sheet

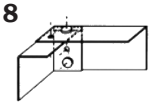

3 "T" and Sheet

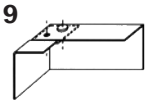

4 Outside Edge Flange

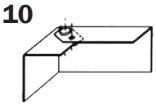

5 Hat on Sheet

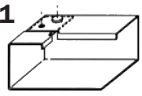

6 "U" and Sheet

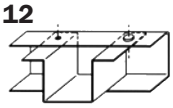

7 Square Tube and Sheet


8 Two Piece Full Corner Overlap


9 Full Corner Joggle Overlap


10 45° Corner Overlap


11 Corner Joggle Overlap w/ Ret. Flange


12 Hat Inside "U"

HOW TO ORDER

! It is recommended that you **contact a BTM sales engineer** prior to purchasing a hand-held unit to determine the optimal tooling configuration for your application.

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

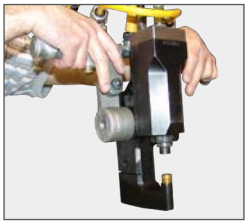
Individual Unit	Hydraulic Pump	Hose Assembly	Optional Gimbal Mount	Spring Balancer
SEE PAGE 15 *Tooling Not Included*	**HydroPak1.2** (See page 16) **PD366000A**	**6.1 Meter [20 Foot]** **PD377600A**	**Allows 360° Rotation On 3 Axis** (See page 17) **792100G**	**20-30 kg [44-66 lb]** (For Heavy Duty 7007 Only) (See page 18) **025900** **OR** **30-45 kg [66-99 lb]** (For Heavy Duty 7007 + Gimbal) **034426**

HEAVY DUTY 7007 UNIT

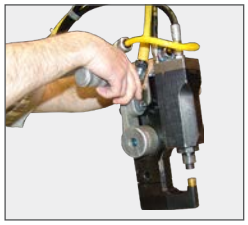
PD3834

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

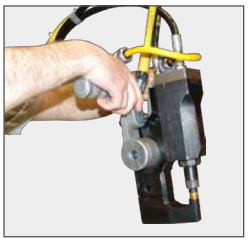
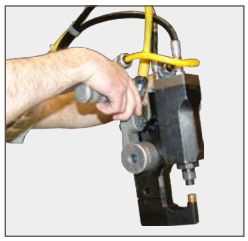
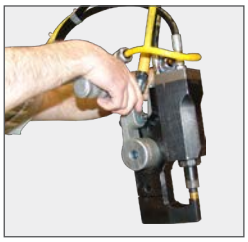
USING THE PRESS



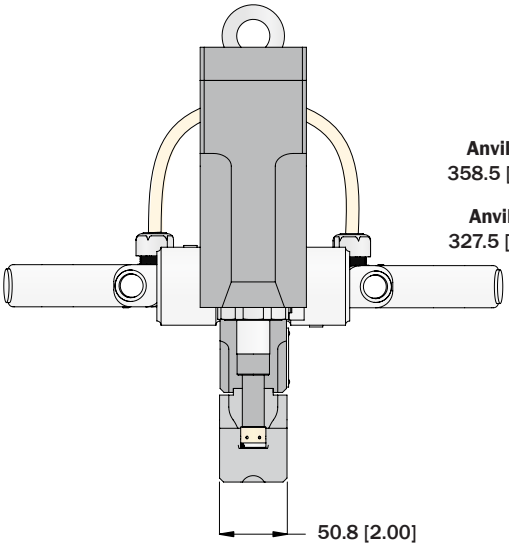
Both triggers must be depressed to close the unit and operate the peck cycle.

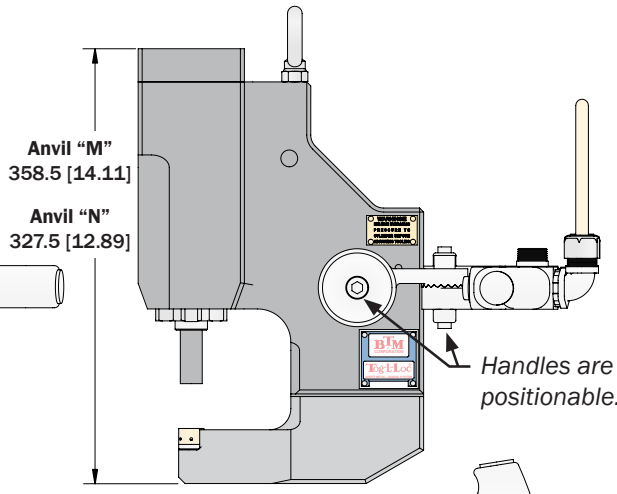


The peck cycle feature allows joints to be created faster.

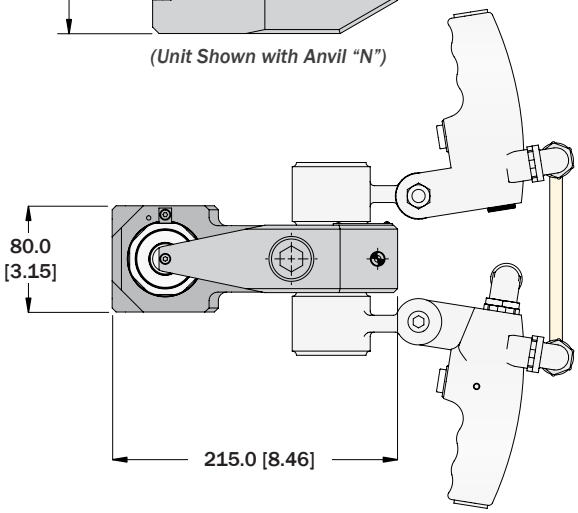




(Standard 7007 Unit Shown)



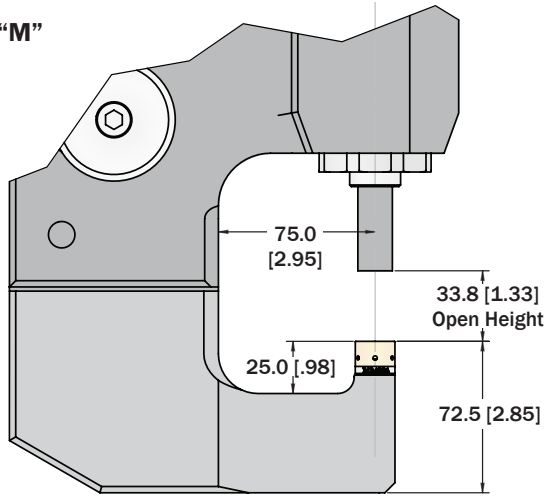


(Unit Shown with Anvil "N")



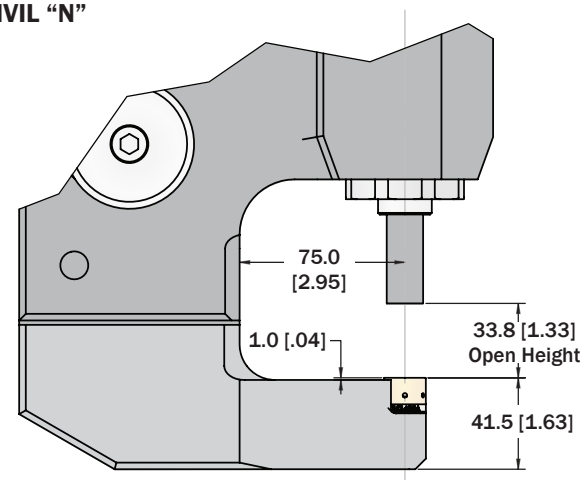
HEAVY DUTY 7007 ANVILS

ANVIL "M"



BTM NUMBER	
Heavy Duty 7007 with Anvil "M"	PD383400A

ANVIL "N"



BTM NUMBER	
Heavy Duty 7007 with Anvil "N"	PD383500A

HYDROPAK1.2 HYDRAULIC PUMP

The BTM HydroPak 1.2 Power supply unit provides both reliable hydraulic pressure and safe and effective two hand, anti-tie down logic control of the clinch unit's trigger switches by utilizing a touch screen PLC.

The unit is equipped with a 1hp motor, 5 GPM 2 stage pump, 15 gallon oil tank and oil cooler for operation at higher ambient temperatures. The unit will automatically shut off after a period on non-use.



Flow Rate	9.5 LPM @ 45 BAR [2.5 GPM @ 650 PSI] 2.3 LPM @ 172 BAR [0.6 GPM @ 2500 PSI]
Motor Size	1.5 HP
Electrical Supply	120 volt 60 HZ single phase 16 amp
Power Consumption	1920 watts
Maximum Pressure	207 BAR [3000 PSI]
Working Pressure	45/172 BAR [650/2500 PSI]
Tank Capacity	38 Liters [10 Gallons]
Weight Without Oil	128 kg [282 lbs]

HOW TO ORDER

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

HYDROPAK1.2 BTM NUMBER
PD366000A

HydroPak1.2 7007 Hose Assemblies Are Sold Seperately.

HYDROPAK1.2 HYDRAULIC HOSE ASSEMBLY

HYDROPAK1.2 HYDRAULIC HOSE ASSEMBLIES	BTM NUMBER
6.1 Meter [20 Foot] Assembly *(Includes four fittings, one 20ft electrical cord, and two 20 ft. hydraulic hoses)*	PD377600A

UNIT COMPATIBILITY



7007
(See page 12)



Heavy Duty 7007
(See page 14)

OPTIONAL EQUIPMENT

To request a quote or place an order, please refer to BTM Global Operations Sales Support on the last page of this catalog.

DUROLOC7 180° ROTATION HANGER

This hanger allows a Duroloc7 to rotate 180° on a single axis.

Unit Compatibility	Weight *(without Unit)*	BTM NUMBER
Duroloc7 *(See page 9)*	3.4 kg [7.5 lbs]	PD281500R

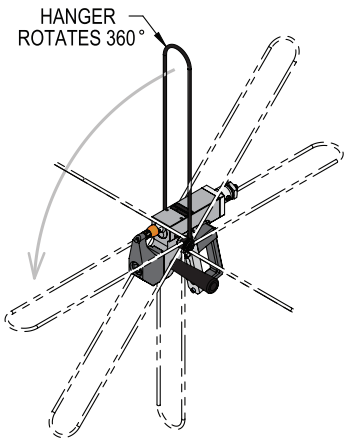


DUROLOC7 360° HANGER

This hanger allows a Duroloc7 Unit to rotate a full 360° on a single axis.

Unit Compatibility	Weight *(without Unit)*	BTM NUMBER
Duroloc7 *(See page 9)*	0.37 kg [0.82 lbs]	PD281500J





7007 UNIT 360° GIMBAL MOUNT

This Gimbal Mount allows a 7007 to rotate a full 360° on three axes.

Unit Compatibility	Weight *(without Unit)*	BTM NUMBER
7007 Units *[PD368700A or PD368800A]* *(See page 12)*	3.3 kg [7.2 lbs]	700600G
Heavy Duty 7007 Units *[PD383400A or PD383500A]* *(See page 14)*	5.3 kg [11.8 lbs]	792100G



SPRING BALANCERS

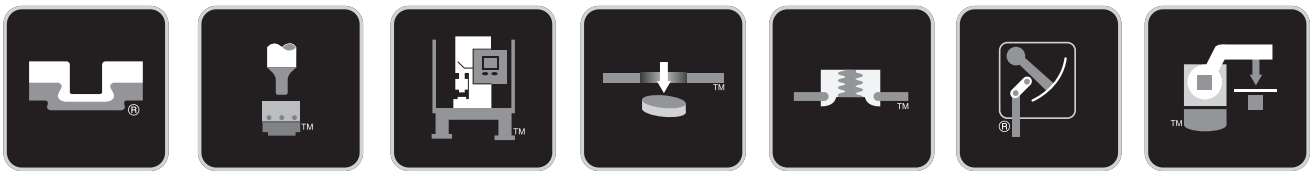
A spring-actuated balancer with an external adjustment to quickly and easily set the correct tension.
Each balancer includes a mounting hook that rotates 360°.



Picture shows one type of spring balancer. Actual balancer may vary depending on weight range.

Weight Range	BTM NUMBER
2.6-3.8 kg [5.73-8.38 lbs]	052945
3-5 kg [6.6-11 lbs]	052936
4-7 kg [10-15 lbs]	052937
6-10 kg [13.3-22 lbs]	051898
9-14 kg [20-30 lbs]	024049
13-17 kg [29-37 lbs]	024050
20-30 kg [44-66 lbs]	025900
30-45 kg [66-99 lbs]	034426

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