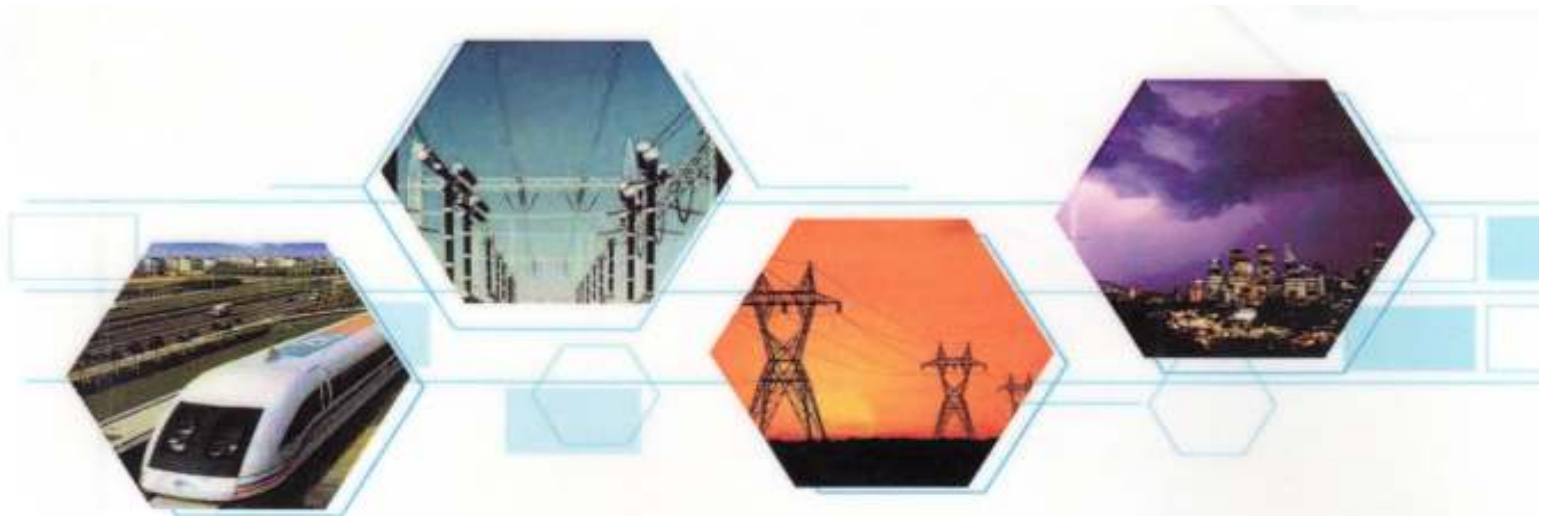


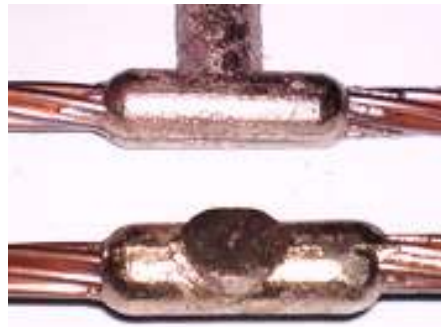
LEEWELDS

EXOTHERMIC WELDING CONNECTION



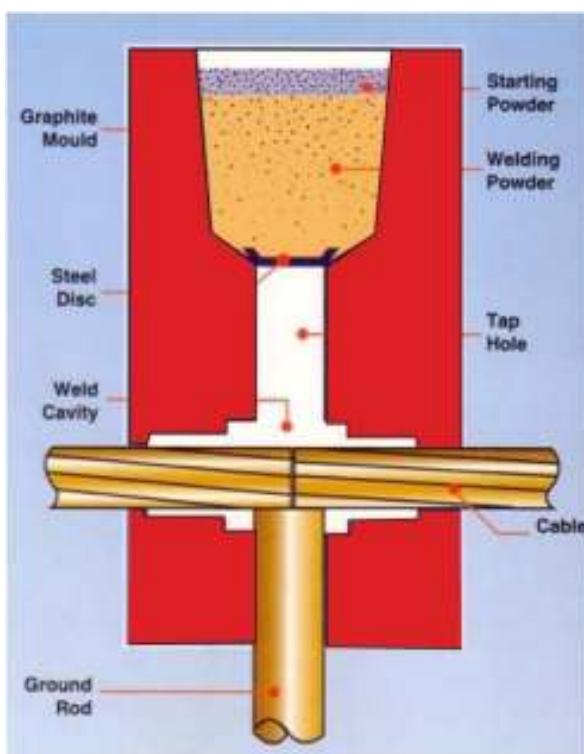
LEEWELDS

Manufacturing of the Exothermic welding powder, Graphite Mould, One time Ceramic Mould, Ductseal and equipment for Electric, Utility, Telecom, Cathodic, and Rail Markets with the high quality and lowest price on the complete cycle of the Grounding & Lightning protection system, Industrial Buildings and Telecom, Lightning Protection, Grounding Products, Cathodic, Government as well as many other grounding needs.



WELDING METHOD

LEEWELDS Exothermic Welding process is a molecular chemical reaction between copper oxide and aluminum, generates a tremendous superheat with molten metals reaching approximately temperatures of 4,000°F (2,600°C). The process can be completed itself automatically without external source of powder or heat.



COMPLETE CONNECTION

WELD POWDER

The welding powder consists of copper oxide and aluminum which is measure into specific weight in grams for the connections should be made approximately 97 % of the contents of this cartridge is the weld metal, the remaining part is a starting powder which is tamped into the bottom of the each cartridge.



Code	Size	Tubes/Box
LW15	15g.	30
LW25	25g.	20
LW32	32g.	20
LW45	45g.	20
LW65	65g.	20
LW90	90g.	10
LW115	115g.	10
LW150	150g.	10
LW200	200g.	10
LW250	250g.	10

- ✓ **1. A** smooth metal connection that will not loosen or corrode.
- ✓ **2. IT** is not affected by high current surge or over current.
- ✓ **3. NO** needfor the external welding machine.
- ✓ **4. USE** only lightweight and cheap equipment.
- ✓ **5. Virtually** maintenance –free



ONETIME CERAMIC

The LEEWELDS ONE TIME system is a cost effective solution when only a small number of joints are required. Unlike the graphite mould, the ONE TIME mould are single-use and are disposed of, or buried in place, with the joint once completed.

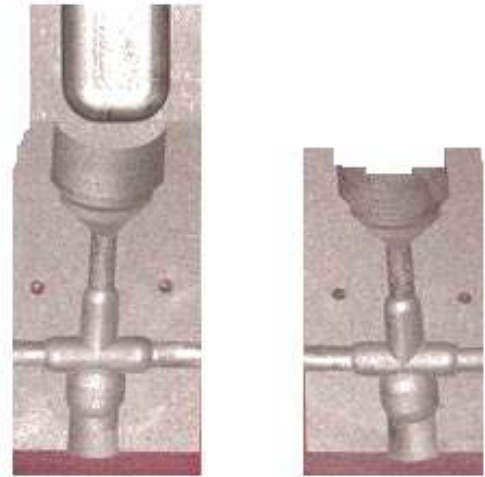


LEEWELDS

GRAPHITE MOULD

- A. LEEWELDS Mould is made from graphite which makes it fragile and would crack or break if not handled with care.
- B. Designed to withstand high temperatures produced from the exothermic welding.
- C. Requires pre-heating with a butane torch to ensure the mould is totally dry before every first joint regardless new or used mould. Otherwise, the mould may crack or break or a bad joint produced or cuts down the life span of the mould.
- D. Always ensure that the conductors fits snugly and sections of moulds are clamped tightly with the handle clamp to avoid leakage of weldmetal. Leakage will produced a bad joint and cuts down the life span of the mould.
- E. After every joint produced, always remove the slag with a recommended mould scrapper, then brush off the smaller particles with a proper mould cleaning brush.
- F. Caution : Do not use any other hard object and brush that would damage the mould.
- G. Always keep the mould away from water or damn areas while it is hot. Otherwise, the mould may crack or break.

- H. Do not over-heat the mould the throughout too many joints. Always either allow to rest or use a spare mould. Otherwise, the mould may crack or break or a bad joint produced or cuts down the life span of the mould



- **LONG LIFE**
- **FAST DELIVERY**
- **CAN BE DESIGN**
- **LOWEST COST**





LEEWELEDs
EXOTHERMIC WELDING

TOOLS AND ACCESSORIES

HANDLE CLAMP

LEEWELEDs handle clamp make possible the use of many different size and type of graphite moulds.

- Clamp Type "HCC" for nominal size mould 3-1/8" x 3-1/8" square and distance between rod 2-5/16"
- Clamp Type "HCD" for nominal size mould 4" x 4" square and distance between rod 3"



- Clamp Type "HCX" for Chain support "X" used to hold a mould fit at its horizontal and vertical position on up to 4" pipe's diameter.



- Clamp Type "HCP" support are used to hold a mould in position on horizontal or vertical pipe



- Clamp Type "HCR" for Railway mould



LWT001

w...ld.com



LWT002

FLINT GUN



LWT003






























BRASS WIRE BRUSH































































LWT004

V STEEL WIRE BRUSH





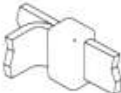
























































MOULD CHART (A)

 CC-1 Splice/Horizontal	 CC-2 Tee/Horizontal	 CC-4 Cross(X)/Horizontal Tap Cable Cut	 CC-11 Cross(X) Horizontal (Uncut)	 CC-6 Parallel Tap/Horizontal (Stacked)	 CC-7 Parallel/Horizontal Run & Tap (Stacked)	 CC-14 Parallel/Horizontal Run & Tap (Side-by-Side)
 CC-13 Parallel Tap/Horizontal (Side-by-Side)	 CC-5 Splice/Vertical	 CC-22 Cross(X)/Vertical Tap Cable Cut	 CC-3 Tee/Horizontal Tap Down	 CC-18 Wye(Y)/Vertical Tap Down	 CC-17 Wye(Y)/Vertical Tap Up	 CC-8 Horizontal/Wye(Y) Specify Right or Left Hand
 CC-19 Wye(Y)/Horizontal Tap Up	 CC-20 Wye(Y)/Horizontal Tap Down	 CC-23 Cross(X)/Vertical	 CC-24 Tee Horizontal Tap	 CC-25 Tee Vertical Tap Up	 CC-34 Parallel/Vertical Run & Tap (Side-by-Side)	 CC-31 Parallel/Vertical Tap Up (Side-by-Side)
 CC-33 Parallel Vertical Tap Down (Side-by-Side)	 CC-29 Dead End/Horizontal (Stacked)	 CC-30 Dead End/Horizontal (Side-by-Side)	 CC-35 Dead End/Vertical (Side-by-Side)	 CC-28 Splice/Tap Up	 CC-27 Splice/Tap Down	 CC-26 Splice/Horizontal
 CC-36 Dead End/Vertical (Side-by-Side)	 CC-37 Splice/Horizontal Multiple Tap Cables	 CC-38 Splice/Vertical (Side-by-Side)	 CC-39 Splice/Vertical (Side-by-Side)	 CR-1 Horizontal Cable Dead End Vertical Grd Rod	 CR-2 Horizontal Cable Thru Vertical Grd Rod	 CR-3 Horizontal Cable Thru Vertical Grd Rod
 CR-17 Horizontal Parallel Cable Vertical Grd Rod Down	 CR-24 Horizontal Parallel Cable Thru Vertical Grd Rod Down	 CR-25 Horizontal Cable Vertical Grd Rod Down	 CR-13 Horizontal Cable Horizontal Grd Rod	 CR-8 Horizontal Cable Thru Horizontal Grd Rod	 CR-15 Vertical Cable Down Horizontal Grd Rod Thru	 CR-9 Horizontal Cable Thru Vertical Grd Rod Up
 CR-6 Vertical Cable Down Vertical Grd Rod Up	 CR-5 Vertical Cable Up Vertical Grd Rod Down	 CR-7 Horizontal Cable Horizontal Grd Rod	 CR-14 Vertical Cable Up Horizontal Grd Rod Thru	 CR-12 Vertical Cable Thru Up Horizontal Grd Rod	 CR-16 Horizontal Cable Vertical Grd Rod Thru	 CR-20 Vertical Cable Down Vertical Grd Rod Thru
 CR-18 Vertical Cable Up Vertical Grd Rod Thru	 CR-19 Vertical Cable Thru Vertical Grd Rod Thru	 CR-21 Horizontal Cable Horizontal Grd Rod Thru Stacked	 CR-22 Horizontal Cable Thru Horizontal Grd Rod Thru Stacked	 CR-23 Horizontal Cable Thru Horizontal Grd Rod Thru Side-by-Side	 CR-26 Horizontal Cable Horizontal Grd Rod	 CR-31 Horizontal Cable Horizontal Grd Plate w/Riser for Pipe
 RR-1 Splice/Vertical	 RR-2 Splice/Horizontal	 RR-3 Vertical Thru Horizontal Tap	 CR-30 Horizontal Cable Thru Horizontal Grd Plate	 CR-27 Horizontal Cable Horizontal Grd Plate	 CR-29 Horizontal Cable Inverted Grd Plate	 CR-32 Horizontal Cable Thru Horizontal Grd Plate w/Riser for Pipe




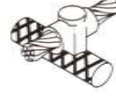

















MOULD CHART (B)

						
CS-1 Horizontal Cable Horizontal Steel Cable off Surface	CS-5 Horizontal Cable Horizontal Cast Iron Cable on Surface	CS-8 Horizontal Cable Horizontal Steel Cable on Surface	CS-12 Vertical Cable Down 45° Steel Cable on Surface	CS-13 Horizontal Cable Down 45° Steel Cable on Surface	CS-9 Horizontal Cable Thru Horizontal Steel Cable on Surface	CS-11 Horizontal Cable Thru Horizontal Cast Iron Cable on Surface
						
CS-2 Horizontal Cable Thru Horizontal Steel Cable off Surface	CS-14 Vertical Cable Thru 45° Steel Cable on Surface	CS-15 Horizontal Cable Thru 45° Steel Cable on Surface	CS-6 Horizontal Cable Thru Vertical Steel Cable off Surface	CS-3 Vertical Cable 45° Down Vertical Steel Cable off Surface	CS-4 Vertical Cable Thru Steel Surface Cable off Surface	CS-7 Vertical Cable Up Vertical Steel Cable on Surface
						
CS-18 Horizontal Cable Vertical Steel Cable on Surface/Specify Right or Left Hand	CS-16 Horizontal Cable Thru Horizontal Steel Pipe	CS-21 Horizontal Cable Vertical Cast Iron Cable on Surface/Specify Right or Left Hand	CS-25 Vertical Cable Down Vertical Steel Cable on Surface	CS-28 Vertical Cable 45° Down Vertical Cast Iron Cable off Surface	CS-26 Vertical Cable Thru Vertical Steel Cable on Surface	CS-24 Vertical Cable Up Vertical Steel Cable off Surface
						
CS-29 Vertical Cable Down Vertical Cast Iron Cable on Surface	CS-30 Vertical Cable Up Vertical Cast Iron Cable on Surface	CS-42 Horizontal Cable Thru Horizontal Cast Iron Cable off Surface	CS-45 Vertical Cable Vertical Cast Iron Cable off Surface	CS-43 Horizontal Cable Thru Vertical Cast Iron Cable off Surface	CS-27 Horizontal Cable Thru Vertical Steel Cable on Surface	CS-23 Vertical Cable Down Vertical Steel Cable off Surface
						
CS-31 Horizontal Cable Vertical Steel Cable off Surface/Specify Right or Left Hand	CS-22 Horizontal Cable Vertical Steel	CB-1 Horizontal Cable Horizontal Lug or Bus Bar	CB-2 Vertical Cable Up Vertical Bus Bar Down over 5" clearance behind bar	CB-5 Horizontal Cable Horizontal Bus Bar	CB-6 Vertical Cable Up Vertical Bus Bar Down over 3/4"-5" clearance behind bar	CB-9 Vertical Cable Down Vertical Bus Bar Up
						
CB-4 Horizontal Cable Horizontal Bus Bar	CB-3 Vertical Cable Down Horizontal Bus Bar on Edge over 5" clearance behind bar	CB-7 Vertical Cable Down Horizontal Bus Bar on Edge over 3/4"-5" clearance behind bar	CB-11 Vertical Cable Up Vertical Bus Bar Down	CB-12 Multiple Horizontal Cables/Horizontal Bus Bar	CB-8 Horizontal Cable Horizontal Bus Bar on Edge	CB-15 Horizontal Cable Horizontal Bus Bar on Edge
						
CB-16 Vertical Cable Up Horizontal Bus Bar on Edge	CB-17 Vertical Cable Down Horizontal Bus Bar on Edge	CB-18 Horizontal Cable Vertical Bus Bar Up	CB-19 Horizontal Cable Vertical Bus Bar Down	CB-20 Horizontal Cable Vertical Bus Bar Up	CB-21 Horizontal Cable Vertical Bus Bar Down	CB-22 Horizontal Cable Horizontal Bus Bar
						
CB-23 Vertical Cable Up Horizontal Bus Bar	CB-25 Horizontal Cable Vertical Bus Bar Down	CB-26 Horizontal Cable Thru Horizontal Bus Bar on Edge	CB-24 Vertical Cable Down Horizontal Bus Bar	CB-27 Horizontal Cable Vertical Bus Bar Up	CB-28 Vertical Cable Down Horizontal Bus Bar on Edge	CB-29 Vertical Cable Thru Horizontal Bus Bar on Edge
						
CB-30 Horizontal Cable Thru Vertical Bus Bar Up	CB-31 Horizontal Cable Thru Vertical Bus Bar Down	CB-32 Vertical Cable Thru Horizontal Bus Bar on Edge	CB-34 Horizontal Cable Horizontal Copper Strip Thru			

MOULD CHART ©

						
BB-1 Horizontal Splice Bars on Edge	BB-2 El/Tap Down	BB-3 Vertical Tee/Tap Down Bars Lapped	BB-4 Vertical Tee/Tap Up	BB-5 Parallel/Bars on Edge	BB-6 Horizontal Tee Bars on Edge	BB-7 Horizontal Splice Bars Flat
						
BB-8 Vertical Tee/Tap Down Bars Lapped /3/4'-5" Clearance Behind Bars	BB-11 Vertical Tee/Tap Up 3/4'-5" Clearance Behind Bars	BB-12 Vertical Tee/Tap Down	BB-14 Horizontal Tee Bars Flat	BB-17 Vertical Tee Tap Horizontal	BB-20 Vertical El/Tap Up	BB-21 Horizontal El/ Bars on Edge
						
BB-22 Horizontal El/ Bars Flat	BB-27 Vertical Splice	BB-28 Horizontal Splice/Bars on Edge /3/4'-5" Clearance Behind Bars	BB-29 Vertical Splice /3/4'-5" Clearance Behind Bars	BB-40 Horizontal Cross Tap Cut/Bars Flat	BB-41 Horizontal Cross Bars Uncut/Bars Flat	BB-43 Vertical Cross Bars Uncut
						
BB-44 Horizontal Button Weld For Copper Strip Only	BB-45 Vertical Button Weld For Copper Strip Only	BB-46 Horizontal Button Weld Cross/For Copper Strip Only	BR-1 Horizontal Bars Dead End Bar Flat	BR-2 Horizontal Bars Thru Bar on Edge	BR-4 Horizontal Bars Thru Bar Flat	BR-7 Horizontal Bars Thru Bar Flat
						
BR-8 Horizontal Bars on Edge	BR-9 Horizontal Bar Thru Bar on Edge/Lapped	BR-11 Vertical Splice/Bar Up	BR-12 Horizontal Bar Dead End Bar on Edge	BS-4 Horizontal Bar Thru/Bar on Edge/Vertical Steel	BS-3 Horizontal Bar Thru Horizontal Steel	BS-1 Vertical Bar Tap Down Vertical Steel
						
BS-2 Horizontal Bar Tap Horizontal Steel	BS-5 Vertical Bar Thru Vertical Steel	BS-6 Horizontal Bar Tap/Bar on Edge/Horizontal Steel	BS-7 Vertical Bar Thru/Bar on Edge/Horizontal Steel	BS-8 Vertical Bar Tap/Bar on Edge/Vertical Steel	BS-9 Horizontal Bar Tap/Bar on Edge/Vertical Steel	BS-11 Horizontal Bar Thru/Bar on Edge/Vertical Steel
						
BS-13 Horizontal Bar Tap/Bar on Edge/Vertical Steel	RS-1 Horizontal Stud Vertical Steel	RS-2 Vertical Stud Horizontal Steel	CRS-1 Cable Down Horizontal Ground Plate Vertical Steel	CRS-2 Cable Up Horizontal Ground Plate Vertical Steel	RS-3 Horizontal Ground Plate Vertical Steel	AC-1 Horizontal Cable Aircraft Receptacle
						
AC-2 Horizontal Cable Thru Aircraft Receptacle	AR-1 Aircraft Grounding Receptacle/Ground Rod	ACR-1 Cable/Aircraft Grounding Receptacle/ Ground Rod	ACR-2 Cable Thru/Aircraft Grounding Receptacle Ground Rod	CX-1 Horizontal Tap To Rail Fillet	CX-2 Horizontal Thru To Rail Fillet	CX-4 Horizontal Tap/Formed Cable End To Web of Rail
						
CX-7 Horizontal Tap/Formed Cable End To Rail Foot	CX-8 Horizontal Tap To Web of Rail	CX-10 Horizontal Tap Thru To Web of Rail	CX-11 Parallel/Horizontal Thru To Web of Rail	BX-2 Horizontal Bar Tap To Rail Foot		

MOULD CHART (D)

					
CRE-1 Parallel/Horizontal Cable Horizontal Rebar	CRE-2 Tee/Horizontal Cable Horizontal Rebar	CRE-3 Cross/Horizontal Cable Thru/Vertical Rebar	CRE-4 Cross/Horizontal Cable Thru/Horizontal Rebar	CRE-7 Splice/Vertical Cable Up/Vertical Rebar Down	CRE-8 Splice/Vertical Cable Down/Vertical Rebar Up
					
CRE-5 Cross/Vertical Cable Thru/Horizontal Rebar	CRE-6 Tee/Horizontal Cable Vertical Rebar	CRE-9 Splice/Horizontal Cable Horizontal Rebar	CRE-11 Tee/Horizontal Cable Thru Horizontal Rebar	CRE-12 Vertical Cable Thru Horizontal Rebar	CRE-13 Tee/Vertical Cable Up/Horizontal Rebar
					
CRE-15 Tee/Horizontal Cable Thru/Vertical Rebar Up	CRE-14 Tee/Vertical Cable Down	CRE-16 Tee/Horizontal Cable Thru/Vertical Rebar Down	CRE-17 Parallel/Horizontal Cable Horizontal Rebar	CRE-18 Parallel/Vertical Cable Down/Vertical Rebar	CRE-19 Parallel/Vertical Cable Up Vertical Rebar
					
CRE-20 Parallel/Vertical Cable Thru/Vertical Rebar Thru	RE-1 Splice/Horizontal	RE-2 Splice/Vertical			