

**Industrial Resistance Welders and Tool Balancers** 

# AC WELD GUNS

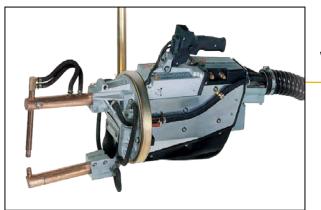
# 2.5-75 kVA · PORTABLE AC SPOT WELDING GUNS

Scissor-Type (X-Type) and C-Type | Light, Medium and Heavy-Duty



**Resistance Welding. Solved.** 

TECNA Pedestal Welders, Portable Spot Welding Guns, Bench Welders, Tool Balancers, Accessories, Spare Parts, Service and Support!



#### **WSI-Advantage Standard Specifications:**

- WSI-SPEC offers reduced installation cost.
- WTG3321-24: TE300 Weld Control
- WTG3327-28: TE470 Weld Control with 2 program selector.
- Filter / Regulator Assembly (items 70503 / 70504)
- Integrated Earth Leakage Detection and Circuit Breaker / GFCI. Must specify voltage and frequency at time of order.
- 50' (15 meter) umbilical (Air/Water/Power Hoses/Cable) reduces installation cost and simplifies maintenance. Access to the Air Regulator and GFCI is easy, typically at operator shoulder height once the gun is properly-festooned and installed on a bridge rail or jib crane.
- Emergency-stop (E-STOP) button to immediately stop machine operation.
- Balancers: Rotating Insulated Mounting Hook connects to weld gun stick hanger, for easy repositioning of the weld gun within a work cell. Includes locking device accessible from the floor.

#### **EURO-Specifications:**

WSI-Spec Standard Equipment EXCEPT:

- Basic TE300 control on all welders, regardless of size and arm length specified.
- 21' (6.5 meter) umbilical (Air/Water/Power Hoses/Cable) offers lower initial cost, but requires running additional cable and hose in customer plant. GFCI and Air Regulator will be mounted near the ceiling with the gun installed and properly-festooned on a bridge rail or jib crane, complicating weld parameter adjustment and maintenance.
- Balancers: Rotate around top hook only (where balancer connects to the jib crane or bridge rail. This makes it much more difficult to reposition the weld gun and within the workspace. Requires rotation of the full weight of the balancer each time the gun is moved.

# MEDIUM-DUTY SUSPENDED SPOT WELDING GUNS

- Pneumatically-operated suspended gun with integrated TE300, TE470 or TE480 microprocessor-based welding controls.
- Intelligent Design, Small Size, and High Welding Capacity deliver Maximum Productivity.
- High electrical efficiency.
- Totally-enclosed unit includes integrated rubber bumpers, for safe and easy operation.
- Accurate maneuverability at any angle is guaranteed by gyro suspension mounted on sealed bearings, coupled with a TECNA Balancer.
- · Rotation lock allows locking of multiple axes of motion.
- Accepts a broad range of standard and special arms to accommodate special applications. "C" type gun assists in accessing tight welds.
- Long, adjustable Welding Stroke enables welding in difficult-to-reach areas, including welding reinforcements and ribs.
- · Retraction Stroke allows reaching into tough spots.
- Water-cooled transformer, with epoxy resin-coated windings for long life.
- Water-cooled arms, electrode holders and electrodes for best performance and maximum use.
- SCR (Silicon-Controlled Rectifier) is insulated from the cooling circuit, and includes a thermal cutoff switch for overheat protection.
- Lube-free chromium plated cylinder and shaft offer a long service life in a production environment.
- · Lube-free pneumatic circuit eliminates oil mist in shop environments.
- Trigger Handle Safety prevents accidental initiation.
- Trigger Handle Controls enable selection between 2 or 4 welding programs, as well as Stage 1 'weld / no-weld' function.
- New for 2017: Power Supply Cable is replaceable without opening up the welder!

#### **Options and Accessories:**

- Ask WSI about custom arms! In addition to the arms listed in this catalog, an almost infinite variety of configurations is available to suit customer welding requirements. WSI is an expert at engineering and manufacturing custom weld gun arms.
- $\cdot$  WSI-exclusive 30° arms available.
- Shielded supply cable for even longer life in heavy manufacturing environments.
- Various lengths of umbilical are available for special order. These include 21.3' (6.5M), 32.8' (10M), 42.6' (13M), 49.2' (15M). Note: WSI-Spec guns always include 15M cables.
- Water Flow Switch prevents the weld gun from passing weld current if cooling water is not flowing.
- Keyed Programming Lockout Switch for TE300 (Option 3311) and Legacy TE450 (Option 3312) Controls (see page 12).
- Note: TE470 / 480 controls have a programmable passcode lock.
  A wide variety of handle configurations are available for easy maneuverability and activation (see page 15).

MEDIUM-DUTY

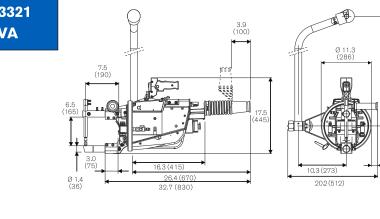
35.4 (900)

1.4 (36)

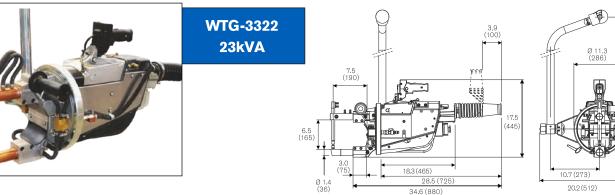
35.4 (900)

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(36)

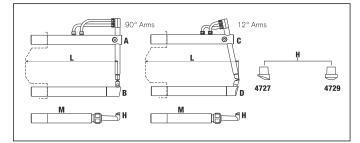






\* See additional trigger handle options on page 15

STANDARD ARMS FOR WTG-3321, WTG-3322



\* 30° Arms available exclusively from WSI\*

#### WTG-3321 - STANDARD ARMS

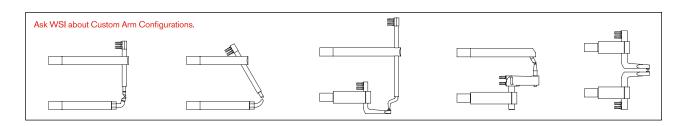
F*	Set weight (approx.)	Short stroke		Long Stroke		
lbs (daN)	lbs (kg)	min in (mm)	max in (mm)	min in (mm)	max in (mm)	
629 (286)	7.3 (3.3)	0.2 (6)	1.0 (25)	1.2 (30)	1.9 (48)	
499 (227)	9.5 (4.3)	0.3(7)	1.2 (30)	1.5 (38)	2.4 (60)	
397 (168)	12.8 (5.8)	0.4 (10)	1.6 (41)	2.0 (50)	3.1 (80)	
264 (120)	18.7 (8.5)	0.5 (13)	2.2 (56)	2.8 (70)	4.4 (112)	
209 (95)	23.3 (10.6)	0.7 (18)	2.8 (72)	3.5 (90)	5.5 (140)	
	<b>Ibs (daN)</b> 629 (286) 499 (227) 397 (168) 264 (120)	weight (approx.)           Ibs (daN)         Ibs (kg)           629 (286)         7.3 (3.3)           499 (227)         9.5 (4.3)           397 (168)         12.8 (5.8)           264 (120)         18.7 (8.5)	weight (approx.)         min in (mm)           bs (daN)         bs (kg)         min in (mm)           629 (286)         7.3 (3.3)         0.2 (6)           499 (227)         9.5 (4.3)         0.3 (7)           397 (168)         12.8 (5.8)         0.4 (10)           264 (120)         18.7 (8.5)         0.5 (13)	weight (approx.)         min in (mm)         max in (mm)           Ibs (daN)         Ibs (kg)         0.2 (6)         1.0 (25)           499 (227)         9.5 (4.3)         0.3 (7)         1.2 (30)           397 (168)         12.8 (5.8)         0.4 (10)         1.6 (41)           264 (120)         18.7 (8.5)         0.5 (13)         2.2 (56)	weight (approx.)         min in (mm)         max in (mm)         min in (mm)           bs (daN)         bs (kg)         min in (mm)         1.0 (25)         1.2 (30)           629 (286)         7.3 (3.3)         0.2 (6)         1.0 (25)         1.2 (30)           499 (227)         9.5 (4.3)         0.3 (7)         1.2 (30)         1.5 (38)           397 (168)         12.8 (5.8)         0.4 (10)         1.6 (41)         2.0 (50)           264 (120)         18.7 (8.5)         0.5 (13)         2.2 (56)         2.8 (70)	

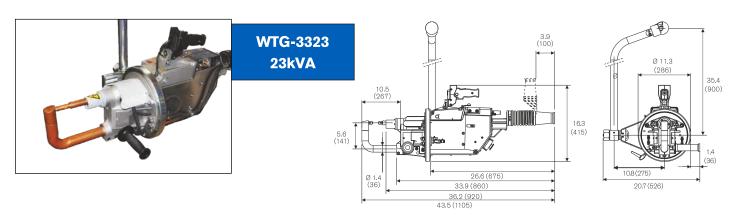
7.5 (190) 9.8 (250) 25.6 (650) in (mm) 13.8 20 31.5 (508) (800) (350) Part # 4850 4854 4858 4862 4866 4870 Α в Part # 4852 4856 4860 4864 4868 4872 4867 4871 4859 4863 Part # 4851 4855 D Part # 4853 4857 4861 4865 4869 4873 М Part # ---4890 4891 4892 4893 ---

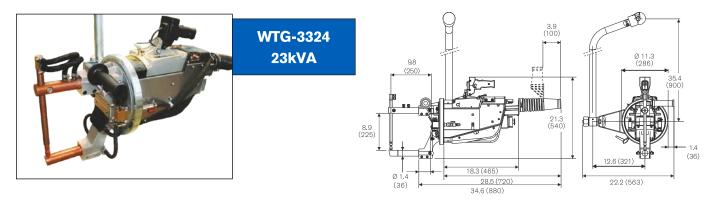
Arms available in **/1MT** (4RW Taper) and **/2MT** (5RW Taper). **/1MT** is standard for these arms.

#### WTG-3322 - STANDARD ARMS

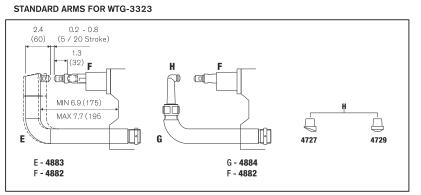
L	F*	Set weight (approx.)	Short stroke		Long	Stroke
in (mm)	lbs (daN)	lbs (kg)	min in (mm)	max in (mm)	min in (mm)	max in (mm)
7.5 (190)	744 (338)	7.3 (3.3)	0.2 (5)	0.8 (20)	1.1 (28)	1.6 (40)
9.8 (250)	590 (268)	9.5 (4.3)	0.2 (6)	1.0 (25)	1.4 (35)	2.0 (50)
13.8 (350)	438 (199)	12.8 (5.8)	0.3 (8)	1.3 (34)	1.9 (47)	2.8 (70)
20 (508)	264 (120)	18.7 (8.5)	0.5 (13)	2.2 (56)	2.8 (70)	4.4 (112)
25.6 (650)	249 (113)	23.3 (10.6)	0.6 (15)	2.4 (60)	3.3 (84)	4.7 (120)
31.5 (800)	205 (93)	28.6 (13)	0.7 (18)	2.9 (73)	4.0 (102)	5.7 (146)
* Electrode f	orce at 87 psi	(6 bar)				



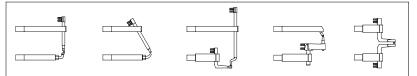




 $^{\star}\,$  See additional trigger handle options on page 15



#### CUSTOM ARM CONFIGURATIONS AVAILABLE.



Ask WSI about Custom Arm Configurations.

#### WTG-3323 - STANDARD ARMS

L	F*	Set weight (approx.)	Short stroke		Long	Stroke
part #	lbs (daN)	lbs (kg)	min in (mm)	max in (mm)	min in (mm)	max in (mm)
4882 4883	660 (300)	7.1 (3.2)	0.2 (5)	0.8 (20)	1.4 (35)	2.0 (50)
4882 4884	660 (300)	8.6 (3.9)	0.2 (5)	0.8 (20)	1.4 (35)	2.0 (50)

' psi (6

Arms available in **/1MT** (4RW Taper) and **/2MT** (5RW Taper). /1MT is standard for these arms.

STANDARD ARMS FOR WTG-3324

#### 6ell 90° Arms 12° Arms ÕA C ġ 9 4727 4729 7n )18---5H \_¶ H 18-

#### $^{\star}$ 30° Arms available exclusively from WSI

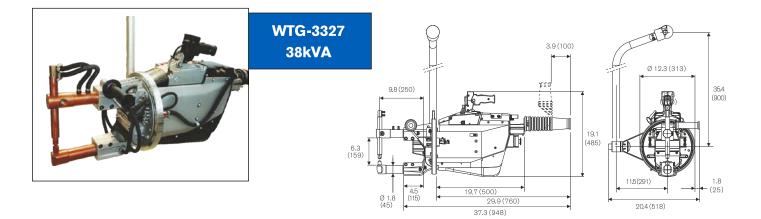
in (mm)	9.8 (250)	13.8 (350)	20 (508)	25.6 (650)	31.5 (800)
				. = = >	(000)
Part #	4874	4876	4878	4880	4894
Part #	4856	4860	4864	4868	4872
Part #	4875	4877	4879	4881	
Part #	4857	4861	4865	4869	
Part #	4890	4891	4892	4893	
	Part # Part #	Part #         4856           Part #         4875           Part #         4857	Part #         4856         4860           Part #         4875         4877           Part #         4857         4861	Part #         4856         4860         4864           Part #         4875         4877         4879           Part #         4857         4861         4865	Part #         4856         4860         4864         4868           Part #         4875         4877         4879         4881           Part #         4857         4861         4865         4869

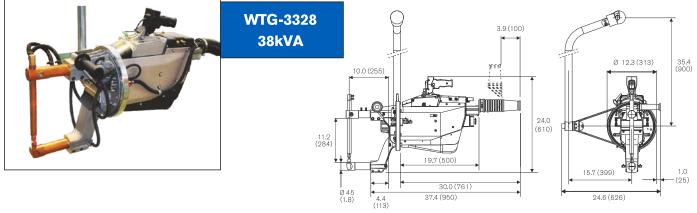
Arms available in **/1MT** (4RW Taper) and **/2MT** (5RW Taper). /1MT is standard for these arms.

#### WTG-3324 - STANDARD ARMS

L	F*	Set weight (approx.)	Short stroke		Long	Stroke
in (mm)	lbs (daN)	lbs (kg)	min in (mm)	max in (mm)	min in (mm)	max in (mm)
9.8 (250)	590 (268)	9.9 (4.5)	0.2 (6)	1.0 (25)	1.4 (35)	2.0 (50)
13.8 (350)	438 (199)	13.2 (6)	0.3 (8)	1.3 (34)	1.9 (47)	2.8 (70)
20 (508)	308 (140)	19.2 (8.7)	0.5 (12)	1.9 (48)	2.6 (65)	3.8 (97)
25.6 (650)	249 (113)	23.8 (10.8)	0.6 (15)	2.4 (60)	3.3 (84)	4.7 (120)

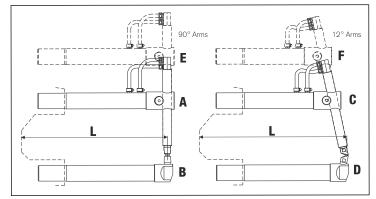
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\* See additional trigger handle options on page 15

#### STANDARD ARMS FOR WTG-3327, WTG-3328



Ask WSI about Custom Arm Configurations

#### WTG-3327 - STANDARD ARMS

L	F*	Set Short stroke L weight (approx.)		Short stroke		Stroke
in (mm)	lbs (daN)	lbs (kg)	min in (mm)	max in (mm)	min in (mm)	max in (mm)
10.0 (255)	1529 (695)	14.3 (6.5)	0.4 (10)	1.0 (26)	1.8 (45)	2.4 (60)
16.1 (408)	849 (386)	20.9 (9.5)	0.5 (12)	1.4 (35)	2.6 (65)	3.0 (75)
24.0 (610)	581 (264)	29.7 (13.5)	0.9 (22)	2.4 (60)	3.9 (100)	5.4 (136)
32.3 (820)	431 (196)	39.6 (18)	1.2 (30)	3.0 (75)	5.1 (130)	6.9 (175)
40.6 (1030)	343 (156)	48.4 (22)	1.6 (40)	3.9 (100)	6.5 (165)	8.9 (225)

L	in (mm)	10.0 (255)	16.1 (408)	24.0 (610)	32.3 (820)	40.6 (1030)
Α	Part #	4750	4756	4762	4768	4774
В	Part #	4752	4758	4764	4770	4776
С	Part #	4751	4757	4763	4769	4775
D	Part #	4753	4759	4765	4771	4777
E	Part #	4754	4760	4766	4772	-
F	Part #	-	4761	4767	4773	-

Arms available in **/1MT** (4RW Taper) and **/2MT** (5RW Taper). **/2MT** is standard for these arms.

#### WTG-3328 - STANDARD ARMS

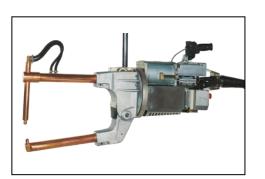
L	F*	Set weight (approx.)	Short stroke		Long 3	Stroke
in (mm)	lbs (daN)	lbs (kg)	min in (mm)	max in (mm)	min in (mm)	max in (mm)
10.0 (255)	1529 (695)	15.4 (7)	0.4 (10)	1.0 (26)	1.8 (45)	2.4 (60)
16.1 (408)	849 (386)	22.0 (10)	0.5 (12)	1.4 (35)	2.6 (65)	3.0 (75)
24.0 (610)	581 (264)	30.8 (14)	0.9 (22)	2.4 (60)	3.9 (100)	5.4 (136)
32.3 (820)	431 (196)	40.8 (18.5)	1.2 (30)	3.0 (75)	5.1 (130)	6.9 (175)

				MO	DEL		
SPECIFICATION	UNITS	WTG-3321	WTG-3322	WTG-3323	WTG-3324	WTG-3327	WTG-3328
Gun Type	1	Scissor (L)	Scissor (L)	С	Scissor (L)	Scissor (L)	Scissor (L)
Power @ 50% Duty Cycle	kVA	16	23	23	23	38	38
Max Power	kVA	37	65	63	52	110	92
Short Circuit Current	A	16,000	21,000	21,000	16,500	27,000	22,500
Thermal Current @ 100%	kA	4	4.25	4.25	4.25	5.4	5.4
Secondary Voltage	v	2.8	3.8	3.8	3.8	5	5
* Supply Voltage (@60Hz)	V	440	440	440	440	440	440
Primary Cables Ø (up to 30m)	mm	10	16	16	16	25	25
Delayed Fuses @ 440VAC	A	32	40	40	40	80	80
Arm Spacing	in (mm)	6.5 (165)	6.5 (165)	4.7 (120)	8.9 (225)	6.1 (155)	11.0 (280)
Arm Minimum Length	in (mm)	7.5 (190)	7.5 (190)		9.8 (250)	9.8 (250)	9.8 (250)
Max Electrode Force @ 116 psi (8 bar)	Ibs. (daN)	629 (286)	744 (338)	660 (300)	590 (268)	1529 (695)	1529 (695)
Working Stroke	in (mm)	0.2-1.0 (6-25)	0.2-0.8 (5-20)	0.2-0.8 (5-20)	0.2-1.0 (6-25)	0.4-1.0 (10-26)	0.4-1.0 (10-26
Maximum Stroke	in (mm)	1.2-1.9 (30-48)	1.1-1.6 (28-40)	1.4-2.0 (35-50)	1.2-1.9 (30-48)	1.8-2.4 (45-60)	1.8-2.4 (45-60
	in (mm)	. ,	31.5 (800)	1.4-2.0 (33-30)	25.6 (650)	40.6 (1030)	32.3 (820)
Arm Maximum Length	. ,	25.6 (650)		-			
Max Electrode Force @ 116 psi (8 bar)	Ibs. (daN)	209 (95)	205 (93)	-	249 (113)	343 (156)	431 (196)
Working Stroke	in (mm)	0.7-2.8 (18-72)	0.7-2.9 (18-73)	-	0.6-2.4 (15-60)	1.6-3.9 (40-100)	1.2-3.0 (30-75
Maximum Stroke	in (mm)	3.5-5.5 (90-140)	4.0-5.7 (102-146)	-	3.3-4.7 (84-120)	6.5-8.9 (165-225)	5.1-6.9 (130-17
Compressed Air Supply	psi (bar)	94 (6.5)	94 (6.5)	94 (6.5)	94 (6.5)	94 (6.5)	94 (6.5)
Air per 1000 Spots @ 72.5 psi (500kP / 5 bar)	SCF (Nm)	141 (4)	141 (4)	141 (4)	141 (4)	265 (7.5)	265 (7.5)
Hose Inside Ø	in (mm)	0.4 (10)	0.4 (10)	0.4 (10)	0.4 (10)	0.4 (10)	0.4 (10)
Water Cooling @ 36 psi (250 kP / 2.5 bar)	gpm (Ipm)	1.85 (7)	1.85 (7)	1.85 (7)	1.85 (7)	2.11 (8)	2.11 (8)
		Max Thi	ickness Mild Sheet	Steel			
w/90° Arms @ Min. Length	in (mm)	0.12x0.12 (3x3)	0.16x0.16 (4x4)	0.16x0.16 (4x4)	0.14x0.14 (3.5x3.5)	0.20x0.20 (5x5)	0.20x0.20 (5x5
w/90° Arms @ 20" (508mm)	in (mm)	0.07x0.07 (1.8x1.8)	0.12x0.12 (3x3)	-	0.12x0.12 (3x3)	0.14x0.14 (3.5x3.5)	0.14x0.14 (3.5x3
w/90° Arms @ Max. Length	in (mm)	0.05x0.05 (1.2x1.2)	0.08x0.08 (2x2)	-	0.08x0.08 (2x2)	0.08x0.08 (2x2)	0.10x0.10 (2.5x2
w/90° Arms, Cross Wire Max Ø	in (mm)	0.39x0.39 (10x10)	0.55x0.55 (14x14)	0.55x0.55 (14x14)	0.47x0.47(12x12)	0.63x0.63 (16x16)	0.63x0.63 (16x <sup>-</sup>
		Wel	ding Rate per Minut	e			
0.040x0.040" (1x1mm) Class A		66	80	80	80	100	100
0.060x0.060" (1.5x1.5mm) Class A		-	32	32	32	44	44
0.080x0.080" (2x2mm) Class A		14	16	16	16	20	20
0.098x0.098" (2.5x2.5mm) Class A		-	-	-	-	14	14
0.118x0.118" (3x3mm) Class B		-	-	-	-	8	8
Net Weight (w/cables, hoses, suspension & shortest arms)	lbs (kg)	101 (46)	114 (52)	117 (53)	121 (55)	167 (76)	172 (78)
Packing Box Dimensions	in (mm)	12x33.5x21.7 (300x850x550)	12x33.5x21.7 (300x850x550)	13x44.1x24.8 (330x1120x630)	13x44.1x24.8 (330x1120x630)	29.9x41.3x19.7 (760x1050x500)	29.9x41.3x19. (760x1050x50
		**	Spring Balancer				
Short Arms Capacity Required	lbs (kg)	99-121 (45-55)	121-143 (55-65)	121-143 (55-65)	121-143 (55-65)	165-198 (75-90)	165-198 (75-9
Short Arms Balancer Required	Model #	9367BR	9368BR	9368BR	9368BR	9370BR	9370BR
Long Arms Capacity Required	lbs (kg)	121-143 (55-65)	143-165 (65-75)	-	143-165 (65-75)	198-231 (90-105)	198-231 (90-10
Long Arms Balancer Required	Model #	9368BR	9369BR	-	9369BR	9371BR	9371BR
* May be supplied capable of operating on oth	er voltages / free	quencies. Please ask	for details.				
** See page 14 for Balancer specifications	<u> </u>						

# **HEAVY-DUTY SUSPENDED AIR OPERATED WELDING GUNS**

Suspended Air-Operated Heavy Duty Scissor Guns - Items 3154Q-3169Q - 53-75 KVA

Suspended Air-Operated Heavy Duty C Guns - Items 3024Q-3041Q - 36-60 KVA



#### WSI-Advantage Standard Specifications:

- WSI-SPEC offers reduced installation cost.
- TE470 Weld Control with 2 program selector
- Filter / Regulator Assembly (item 70504)
- Integrated Earth Leakage Detection and Circuit Breaker / GFCI. Must specify voltage and frequency at time of order.
- 50' (15 meter) umbilical (Air/Water/Power Hoses/Cable) reduces installation cost and simplifies maintenance. Access to the Air Regulator and GFCI is easy, as they are typically at operator shoulder height once the gun is properly-festooned and installed on a bridge rail or jib crane.
- Emergency-stop (E-STOP) button to immediately stop machine operation.
- Balancers: Rotating Insulated Mounting Hook connects to weld gun stick hanger, for easy repositioning of the weld gun within a work cell. Includes locking device accessible from the floor.

#### **EURO-Specifications:**

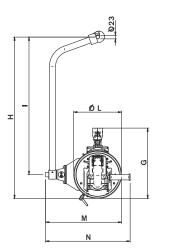
- WSI-Spec Standard Equipment EXCEPT:
- 21' (6.5 meter) umbilical (Air/Water/Power Hoses/Cable) offers lower initial cost, but requires running additional cable and hose in customer plant. GFCI and Air Regulator will be mounted near the ceiling with the gun installed and properly-festooned on a bridge rail or jib crane, complicating weld parameter adjustment and maintenance.
- Balancers: Rotate around top hook only (where balancer connects to the jib crane or bridge rail. This makes it much more difficult to reposition the weld gun and within the workspace. Requires rotation of the full weight of the balancer each time the gun is moved.

- Pneumatically-operated suspended gun with integrated TE470 or TE480 or external TE560 microprocessor-based welding controls.
- Intelligent Design, Small Size, and High Welding Capacity for Maximum Productivity.
- High Electrode Force with Reduced Dimensions and Safe Components.
- Standard ISO 5826 transformers.
- Accurate maneuverability at any angle is guaranteed by gyro suspension mounted on sealed bearings, coupled with a TECNA Balancer.
- · Rotation lock allows locking of multiple axes of motion.
- Accepts a broad range of standard and special arms to accommodate special applications. "C" type gun assists in accessing tight welds.
- Long, Adjustable Welding Stroke enables welding in difficult-to-reach areas, including welding reinforcements and ribs.
- Retraction Stroke allows reaching into tough spots.
- Lube-free chromium plated cylinder and shaft offer a long service life in a production environment.
- Lube-free pneumatic circuit eliminates oil mist in your shop environment.
- Water-cooled transformer, with epoxy resin-coated windings for long life.
- Water-cooled arms, electrode holders and electrodes for best performance and long life.
- Water-flow valves on the cooling circuit simplify electrode changeover.
- Trigger Handle Safety prevents accidental initiation.
- Trigger Handle Controls enable selection between 2 or 4 welding programs, as well as Stage 1 'weld / no-weld' function.
- Selection of Welding Controls to suit different production requirements.

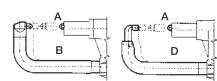
#### **Options and Accessories:**

- Ask WSI about custom arms! In addition to the arms listed in this catalog, an almost infinite variety of configurations is available to suit customer welding requirements. WSI is an expert at engineering and manufacturing custom weld gun arms.
- Shielded supply cable for even longer life in heavy manufacturing environments.
- Various lengths of umbilical are available for special order. These include 21.3' (6.5M), 32.8' (10M), 42.6' (13M), 49.2' (15M). Note: WSI-Spec guns always include 15M cables.
- Water Flow Switch prevents the weld gun from passing weld current if cooling water is not flowing.
- Note: TE470 / 480 controls have a programmable passcode lock. TE560 has a keyed program lockout (see page 12-13).
- A wide variety of handle configurations are available for easy maneuverability and activation (see page 15).

#### WTG-3024 / 25Q (C) · WTG-3032 / 33 / 40 / 41Q (CG)



WTG	3024/25Q in (mm)	3032/33Q in (mm)	3040/41Q in (mm)
Α	5.5 (140)	5.8 (148)	5.8 (148)
в	8.7 (220)	9.1 (230)	9.1 (230)
с	24.8 (630)	25.2 (640)	25.2 (640)
D	34.6 (880)	35.8 (910)	35.8 (910)
Е	39.0 (990)	40.4 (1025)	40.4 (1025)
F	15.9 (405)	17.3 (440)	17.3 (440)
G	16.3 (415)	18.5 (470)	18.5 (470)
н	38.2 (970)	39.2 (995)	39.2 (995)
T	33.4 (848)	33.4 (848)	33.4 (848)
ØL	9.6 (244)	11.6 (294)	11.6 (294)
м	16.1 (410)	19.3 (490)	19.3 (490)
N	19.7 (500)	21.9(555)	21.9 (555)



10-----

D

Ø 1.8" (45mm) Fits 3024Q • 3025Q							
	А	в	D				
Part #	4401/2MT	4402/2MT	4403/2MT				
lbs (kg)	1.0 (0.47)	11.5 (5.2)	13.2 (6)				

 
 Ø 2.0" (50mm) Fits 3032Q - 3033Q - 3040Q - 3041Q

 A
 B
 D

 Part #
 4410/2MT
 4411/2MT
 4412/2MT

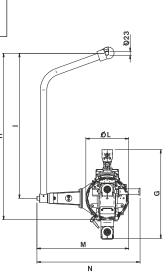
 Ibs (kg)
 9.9 (4.5)
 33 (15)
 34.8 (15.8)

Custom arm configurations available from WSI



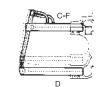
### Arms available in /1MT (4RW Taper) and /2MT (5RW Taper). /2MT is standard for these arms. Applies to 3024Q, 3025Q, 3032Q, 3033Q 3040Q, 3041Q.

WTG-3154 / 55 / 60 / 61 / 66 / 67 (LG) WTG-3156 / 57 / 62 / 63 / 68 / 69 (LLG)



WTG	3154/55Q in (mm)	3160/61Q in (mm)	3166/67Q in (mm)	3156/57Q in (mm)	3162/63Q in (mm)	3168/69Q in (mm)
Α	8.7 (220)	8.7 (220)	8.7 (220)	12.4 (315)	12.4 (315)	12.4 (315)
в	13.4 (340)	13.4 (340)	13.4 (340)	17.1 (435)	17.1 (435)	17.1 (435)
с	21.7 (552)	22.4 (570)	24.5 (622)	21.7 (552)	22.4 (570)	24.5 (622)
D	34.3 (870)	34.3 (870)	34.8 (885)	34.3 (870)	34.3 (870)	34.8 (885)
Е	38.2 (970)	38.2 (970)	38.8 (985)	38.2 (970)	38.2 (970)	38.8 (985)
F	16.9 (430)	16.9 (430)	16.9 (430)	16.9 (430)	16.9 (430)	16.9 (430)
G	19.7 (500)	19.7 (500)	19.7 (500)	23.4 (595)	23.4 (595)	23.4 (595)
н	39.2 (995)	39.2 (995)	39.2 (995)	39.2 (995)	39.2 (995)	39.2 (995)
Т	33.4 (848)	33.4 (848)	33.4 (848)	33.4 (848)	33.4 (848)	33.4 (848)
ØL	11.6 (294)	11.6 (294)	11.6 (294)	11.6 (294)	11.6 (294)	11.6 (294)
м	19.3 (490)	19.3 (490)	19.3 (490)	23.0 (585)	23.0 (585)	23.0 (585)
N	21.7 (550)	21.7 (550)	21.7 (550)	27.6 (700)	27.6 (700)	27.6 (700)





\* See additional trigger handle options on page 15

D

			Ø 2.0" (50mm)				F @ 87 psi (6 bar)	F @ 116 psi (8 bar)	Set Weight		
	L • in (mm)	А	В	С	D	E	F	lbs (daN)	lbs (daN)	lbs (kg)	
Part #	10.0 (255)	4420	4424	N/A	N/A	4422	N / A	1419 (645)	1881 (855)	~ 19.8 (9)	
Part #	16.1 (408)	4426	4430	4427	4431	4428	4429	946 (430)	1265 (575)	~ 28.6 (13	
Part #	24.0 (610)	4432	4436	4433	4437	4434	4435	660 (300)	880 (400)	~ 37.4 (17	
Part #	32.3 (820)	4438	4442	4439	4443	4440	4441	506 (230)	671 (305)	~ 48.4 (22	
Part #	40.6 (1030)	4444	4448	N/A	N / A	4446	N/A	407 (185)	539 (245)	~ 61.6 (28	

 $^{\ast}$  LG Guns use ARMS A, B, C and D. LLG Guns use ARMS C, D, E F.

> Arms available in /1MT (4RW Taper) and /2MT (5RW Taper). /2MT is standard for these arms.

Custom arm configurations available from WSI

Eternal Wold Control Model 1233 (C) 1254 (CG)MMGd 1WTG-30250WTG-30300WTG-30300Power Ebo's Duty CycleINA385360Max PowerINA38150102Shor Charal CarrentIAA22.80030.000Thermal Current 5100%INA445.358Secondry VoltageV0.37.18Secondry Voltage (Kolt-2)IT144044404440Pinary Calles Org In SolonIm (III)5.5 (140)15.8 (148)Pinary Calles Org In SolonIm (IIII)15.5 (140)15.8 (148)Inaulated Ama Connection ØIm (IIII)17.5 (141)118.6 (271)Northsald Ama Connection ØIm (IIII)17.1 (141)118.6 (271)Northsald Ama Connection ØIm (IIIII)0.4 (141)118.6 (271)Org OsspensionIm (IIIII)0.4 (141)118.6 (271)118.6 (271)Org OsspensionIm (IIIIII)0.4 (110)0113.4 (121)Org Max Elected Frace IT IS (IIIIII)Im (IIIIIII)0.4 (110)11.6 (271)Ama Elected Frace IT IS (IIIIIIIIII)Im (IIIIIIIIIIIIIIIIIIII)10.4 (110)10.4 (110)Org Max Elected Frace IT IS (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				CG
Power 8 0% Dury OptionINA366360Max RowerINA361501992Shert Circuit Current 8 100%IAA22,80028,60030,000Thermal Current 8 100%IAA122,80028,60030,000Secondary Voltage (800+2)IAV6.37.18* Supply Voltage (800+2)IAV8.37.18Debaged Fuers 8 440ACIA63100115Arm Centerine DatanceIn fram155,1140158,61471158,617Debaged Fuers 8 440ACIn fram105,6120116,02411158,1431Instand Arms Connection QIn fram174,614116,02411158,1431Instand Arms Connection QIn fram9.6,1241116,02411158,1431Instand Arms Connection QIn fram9.6,1241116,0240158,1430Orgen SaspersionIn fram0.2,12,6300.2,12,6300.2,12,630Arm Maximum LengthIn fram0.2,12,6300.2,12,6300.2,12,630Arm Maximum LengthIn fram0.4,1000.4,100138,4620158,4620Arm Maximum LengthIn fram0.4,10010,10010,100Arm Maximum LengthIn fram0.4,10010,10010,100Arm Maximum LengthIn fram0.4,1000.4,10011,100Arm Maximum LengthIn fram0.4,10010,10010,100Arm Maximum LengthIn fram0.4,1000.4,10010,100 <trr<tr>Arm Maximum LengthIn fra</trr<tr>	Model #	WTG-3024Q	WTG-3032Q	WTG-3040Q
Max Power         KNA         115         150         192           Shot Circuit Current         A         22.800         28.500         38.000           Thermal Current @ 100%         KA         4         6.3         5.3           Ssondiny Voltage (@60H2)         V         6.3         7.1         8           * Supply Voltage (@60H2)         V         6.3         7.1         8           Thermal Current @ 100%         A         6.3         100         125           Am Centrefine Buance         in (mn)         5.51400         5.61481         5.81481           Insulated Ams Connection Ø         in (mn)         1.951402         1.185477         1.185477           Non-Houtlated Ams Connection Ø         in (mn)         9.0.2.12 (IS-30)         0.2.12 (IS-30)         0.2.12 (IS-30)           Qayor Suspension         in (mn)         9.0.2.42 (IS-30)         0.2.12 (IS-30)	Model #	WTG-3025Q	WTG-3033Q	WTG-3041Q
Shot Circuit CurrontA22,80028,60030,000Themal Current © 100%KA45.35.3Sacondary VoltageV6.37.18Supply Voltage (@00Hz)V4.404.40Primary Cables Ø (up to 30m)mm1.62.52.5Delayed Tuess Ø 440%CA6.3100115Arm Centerline Distancein (mm)1.55 (140)5.8 (143)5.8 (143)Inmulated Arms Connection Øin (mm)1.55 (140)1.93 (43)1.93 (43)Ø Gyns Suspersionin (mm)1.73 (44)1.93 (43)1.93 (43)Ø Gyns Suspersionin (mm)9.6 (24.4)1.18 (29.4)1.18 (29.4)Arm Maximur Lengthin (mm)0.2 -12 (5.30)0.2 -12 (5.30)3.0 -3.9 (75-10)Max Electrode Force @ 116 pin (8 bin)in (mn)0.2 -12 (5.30)0.2 -12 (5.30)3.0 -3.9 (75-10)Arm Maximur Lengthin (mn)0.2 -12 (5.30)0.2 -12 (5.30)3.0 -3.9 (75-10)Max Electrode Force @ 116 pin (8 bin)ib.6 (A)i.11.11.1Maximur Strokin (mn)0.2 -12 (5.30)3.0 -3.9 (75-10)3.0 -3.9 (75-10)Maximur Lengthin (mn)ib.6 (Ma)i.11.11.1Maximur Lengthin (mn)ib.6 (Ma)i.11.1Maximur Strokjb.majb.maib.mai.11.1Maximur Strokim (mm)ib.6 (Ma)1.11.11.1Maximur Lengthin (mm)ib.6 (Ma)ib.6 (Ma)	kVA	36	53	60
Thermal Current © 100%iAA45.35.3Steendary VollageV6.37.18Stepdy Vollage (60Hz)V440440440Pinary Cables Ø (ap to 30m)mm162525Dalyed Fuses Ø (ap to 30m)im (mm)155 (140)5.8 (148)5.8 (148)Imulated Arma Connection Øin (mm)155 (140)5.8 (148)1108 (47)Imulated Arma Connection Øin (mm)9.6 (244)118 (244)118 (247)Og ong Suspensionin (mm)9.6 (244)118 (240)1108 (420)Arm Kininum Lengthin (mm)0.2.1 (2.5.30)0.2.1 (2.6.30)0.2.1 (2.6.30)Music Electrode Force © 116 (916) Ba)In (mm)0.3.0.3 (75-10)3.0.3.3 (75-10)3.0.3.3 (75-10)Music Electrode Force © 116 (916) Ba)In (mm)0.3.0.3 (75-10)3.0.3.3 (75-10)3.0.3.3 (75-10)3.0.3.3 (75-10)Music Electrode Force © 116 (916) Ba)In (mm)0.3.0.3 (75-10)3.0.3.3 (75-10)3.0.3.3 (75-10)3.0.3.3 (75-10)Music Electrode Force © 116 (916) Ba)In (mm)0.4.100.4.100.4.101.10Music Electrode Force © 116 (916) Ba)In (mm)0.3.3 (75-10)3.0.3 (75-10)3.0.3 (75-10)Music Electrode Force © 116 (916) Ba)In (mm)0.4.101.101.10Music Base Step (916) Ba)In (mm)0.4.101.101.10Music Base Step (916) Ba)In (mm)1.161.101.10Music Base Step (916) Ba)In (mm)1.1161.11	kVA	115	150	192
Secondary VoltageV6.37.18*Supply Voltage (#60Hz)V440440440*Supply Voltage (#60Hz)N63100125Arn Canterfund Distancein frmn)5.6 (140)5.6 (149)5.8 (149)5.8 (149)Insulated Arms Connection Øin frmn)1.55 (140)1.65 (42)1.185 (42)1.185 (42)Non-Insulated Arms Connection Øin frmn)1.72 (44)1.13 (49)1.138 (49)1.138 (49)Ø Gyro Susgenationin frmn)0.8 (24)1.16 (294)1.186 (42)1.186 (42)Arm Minimur Lengthin frmn)0.2 -1.2 (8-30)0.2 -1.2 (8-30)0.2 -1.2 (8-30)0.2 -1.2 (8-30)0.2 -1.2 (8-30)Arm Maximur Lengthin frmn)00.3 (75-100)3.0-3 (75-100)3.0-3 (75-100)3.0-3 (75-100)3.0-3 (75-100)Arm Maximur Lengthin frmn)00.3 (75-100)3.0-3 (75-100)3.0-3 (75-100)3.0-3 (75-100)Arm Maximur Lengthin frmn)00.4 (75-100)3.0-3 (75-100)3.0-3 (75-100)3.0-3 (75-100)Arm Maximur Lengthin frmn)01Max Electorde Force @ 116 pai (B.bar)in frmn)01Max Electorde Force @ 116 pai (B.bar)in frmn)0.41 (10)116 (8)Max Electorde Force @ 116 pai (B.bar)in frmn)0.42 (12)5.00 (15).50 (15)Max Electorde Force @ 116 pai (B.bar)in frmn)0.41 (10)0.41 (10)Max Electo	A	22,800	26,500	30,000
Supply Values (#60Hz)         V         440         440         440           Primary Cables Ø (up to 30m)         mm         16         25         25           Delayde Tuess & 440XAC         A         83         100         125           Arm Centerline Distance         in (mm)         5.5 (140)         5.8 (148)         158 (47)           Non-Insulated Arms Connection Ø         in (mm)         105 (24)         116 (294)         118 (27)           Non-Insulated Arms Connection Ø         in (mm)         9.6 (244)         116 (294)         116 (294)           Arm Minimum Length         in (mm)         0.2 +12 (5-30)         0.2 +12 (5-30)         0.3 +3.9 (75-100)         3.0 +3.0 (75-100	kA	4	5.3	5.3
Primary Cables Ø (Up to 30m)         am         16         25         25           Delayed Fuses @ 440VAC         A         63         100         125           Arm Centerine Delance         in (mm)         5.5 (140)         5.8 (148)         5.8 (148)           Insulated Arms Connection Ø         in (mm)         1.75 (44)         1.85 (47)         1.85 (47)           Non-Insulated Arms Connection Ø         in (mm)         1.75 (44)         1.18 (1294)         1.18 (1294)           Ø Gyro Suspension         in (mm)         0.8 (244)         1.18 (1294)         1.18 (1294)           Arm Kinimum Length         in (mm)         0.8 (244)         1.18 (1294)         1.18 (1294)           Arm Minimum Length         in (mm)         0.8 (244)         1.18 (1294)         0.2 · 1.2 (5.30)           Arm Maximum Stroke         in (mm)         0.4 · 1.2 · 1.5 · 0.0         0.2 · 1.2 (5.30)         0.2 · 1.2 (5.30)           Arm Maximum Length         in (mm)         0.4 · 1.0 · 0.2 · 1.2 (5.30)         0.2 · 1.2 (5.30)         0.2 · 1.2 (5.30)           Arm Maximum Length         in (mm)         0.4 · 0.1 · 0.	V	6.3	7.1	8
Delayed Fuses # 440/WCA63100125Arm Centerline Distancein (mm)5.6 (140)5.8 (148)5.8 (148)Insulated Arms Connection Øin (mm)1165 (42)1185 (47)1185 (47)Nen-Insulated Arms Connection Øin (mm)9.6 (244)1116 (294)1136 (294)Arm Minimum Lengthin (mm)9.6 (244)1116 (294)1136 (429)Arm Minimum Lengthin (mm)0.2.12 (5-30)0.2.12 (5-30)0.2.12 (5-30)Max Electrode Force © 116 psi (8 bar)in (mm)0.2.12 (5-30)0.2.12 (5-30)0.2.12 (5-30)Max Electrode Force © 116 psi (8 bar)in (mm)0.2.3.8 (75-100)0.3.9.3 (75-100)0.3.9.3 (75-100)Arm Maximum Lengthin (mm)0.4.10116 (8)116 (8)Max Electrode Force © 116 psi (8 bar)lbs. (saN)116 (8)116 (8)Max Electrode Force © 116 psi (8 bar)in (mm)0.4116 (8)116 (8)Max Electrode Force © 116 psi (8 bar)in (mm)116 (8)116 (8)116 (8)Max Electrode Force © 116 psi (9 bar)ibs. (saN)116 (8)116 (8)116 (8)Moving Strokein (mm)0.4116 (8)116 (8)116 (8)Max Electrode Force © 116 psi (9 bar)ibs. (saN)114 (4)177 (5)530 (15)Moving StrokeSCF (N/m)424 (12)530 (15)530 (15)Move StrokeSCF (N/m)141 (4)177 (5)177 (5)Max Electrode Koreein (mm)0.4 (10)17 (6)17 (6)Mov	V	440	440	440
Arr Centerline Distancein (nm)5.5 (140)5.8 (148)6.5 (149)Insulated Arms Connection Øin (nm)1.65 (42)1.85 (47)1.85 (47)Non-Insulated Arms Connection Øin (nm)9.6 (244)1.13 (49)1.13 (49)Ø Gyro Suspensionin (nm)0.6 (244)1.13 (49)1.13 (49)Ø Gyro Suspensionin (nm)0.6 (244)1.16 (294)Arm Minimun Lengthin (nm)0.2 · 1.2 (5-30)0.2 · 1.2 (5-30)0.2 · 1.2 (5-30)Max Electrode Force @ 116 psi (8 bar)in (nm)0.2 · 1.2 (5-30)3.0 · 3.9 (75 · 100)3.0 · 3.9 (75 · 100)Arm Maximun Lengthin (nm)0.2 · 1.2 (5-30)0.2 · 1.2 (5-30)3.0 · 3.9 (75 · 100)3.0 · 3.9 (75 · 100)Arm Maximun Lengthin (nm)0.2 · 1.2 (5-30)0.2 · 1.2 (5-30)3.0 · 3.9 (75 · 100)3.0 · 3.9 (75 · 100)Arm Maximun Strokein (nm)0.1 · 0.	mm	16	25	25
Insulated Arms Connection Øin (mm)1.65 (42)1.85 (47)1.85 (47)Non-Insulated Arms Connection Øin (mm)1.73 (44)1.93 (49)1.93 (49)Ø Gyro Suspensionin (mm)0.6 (244)1.18 (294)1.16 (294)Arm Minimum Lengthin (mm)0.6 (244)1.96 (400)1.96 (400)Max Electrode Force © 116 psi (8 bar)Ibs. (4aN)1.00 (600)1.964 (620)0.2-1.2 (5-30)Max Electrode Force © 116 psi (8 bar)in (rmn)3.0-3.9 (75-100)3.0-3.9 (75-100)3.0-3.9 (75-100)Arm Maximum Lengthin (rmn)in (rmn)0.10.10.1Arm Keltetrode Force © 116 psi (8 bar)ibs. (daN)in (rmn)0.10.10.1Max Electrode Force © 116 psi (8 bar)in (rmn)0.10.10.10.1Compressed Ar Supplypit (bar)in (rmn)0.10.10.10.1Compressed Ar SupplySoft StrokeSCF (N/m)141 (4)177 (5)530 (15)Hese Inside Øin (rmn)0.4 (10)0.4 (10)0.4 (10)0.4 (10)Wiet Cooling © 36 psi (250 kP / 2.5 bar)igm (pm)1.7 (6)1.7 (6)1.7 (6)Wiet O'Arms @ Max Lengthin (rmn)0.550.55 (14:14)0.630.63 (16:44)0.16:016 (4:4)Wiet O'Arms @ Max Lengthin (rmn)0.550.55 (14:14)0.630.63 (16:45)0.7 (10:7) (16:7)Wiet O'Arms @ Max Lengthin (rmn)0.550.55 (14:14)0.630.63 (16:45)0.7 (10:7) (16:7)Wiet O'Arms @ Max Lengthin (rmn)0.550.5	A	63	100	125
Non-Insulated Arms Connection Ø         In (mm)         1.73 (44)         1.99 (49)         1.93 (49)           Ø Gyro Suspension         in (mm)         9.6 (244)         116 (294)         116 (294)           Arm Minimum Length         in (mm)         0.2 -12 (5-30)         0.2 -12 (5-30)         0.2 -12 (5-30)           Max Electrode Force © 116 psi (8 bar)         ibs. (daN)         1100 (500)         1364 (620)         0.2 -12 (5-30)           Max Electrode Force © 116 psi (8 bar)         in (mm)         0.2 -12 (5-30)         0.3 -0.3 (75-100)         3.0 -3.8 (75-100)           Arm Maximum Stroke         in (mm)         0.3 -0.3 (75-100)         3.0 -3.8 (75-100)         3.0 -3.8 (75-100)           Arm Maximum Length         in (mm)         0.4 - 1.0         -         -           Max Electrode Force © 116 psi (8 bar)         ibs. (daN)         -         -         -           Max Electrode Force © 116 psi (8 bar)         ibs. (daN)         -         -         -           Max Electrode Force © 116 psi (8 bar)         ibs. (daN)         -         -         -           Max Electrode Force © 116 psi (8 bar)         ibs. (daN)         116 (8)         116 (8)         116 (8)           Max Electrode Force © 116 psi (8 bar)         Bos. (daN)         116 (8)         117 (8)         11	in (mm)	5.5 (140)	5.8 (148)	5.8 (148)
Ø Gyrö Suspension         in (mm)         9.8 (244)         11.6 (294)         11.6 (294)           Arm Minimum Length         in (mm)         -         -         -           Max Electrode Force © 116 psi (8 bar)         Ibs. (daN)         1100 (500)         1364 (620)         1364 (620)           Working Stroke         in (mm)         0.2-12 (5-30)         0.2-12 (5-30)         0.2-12 (5-30)           Max Electrode Force © 116 psi (8 bar)         Ibs. (daN)         3.0-38 (75-100)         3.0-3.9 (75-100)           Arm Maximum Length         in (mm)         -         -         -           Max Electrode Force © 116 psi (8 bar)         Ibs. (daN)         -         -         -           Max Electrode Force © 116 psi (8 bar)         Ibs. (daN)         -         -         -           Max Electrode Force © 116 psi (8 bar)         Ibs. (daN)         -         -         -         -           Compressed Air Supply         Air prot totto         psi (bar)         116 (8)         116 (8)         116 (8)         116 (8)           Max Electrode Force © 116 psi (Bar)         SCF (N/m)         141 (4)         177 (5)         177 (5)           Compressed Air Supply         Air prot tottomax         SCF (N/m)         141 (4)         17 (6)         17 (6)	in (mm)	1.65 (42)	1.85 (47)	1.85 (47)
Arm Minimu Length         in (mm)         in (mm)         in (mm)           Max Electrode Force @ 116 psi (8 bar)         Ibs. (daN)         1100 (500)         1384 (620)         1384 (620)           Working Stroke         in (mm)         0.2-12 (5-30)         0.2-12 (5-30)         3.0-3.9 (75-100)           Arm Maximum Length         in (mm)         0.3-3.9 (75-100)         3.0-3.9 (75-100)         3.0-3.9 (75-100)           Arm Maximum Length         in (mm)         0         -         -         -           Arm Maximum Length         in (mm)         0         -         -         -           Max Electrode Force @ 116 psi (Bar)         Ibs. (daN)         -         -         -         -           Max Electrode Force @ 116 psi (Bar)         Ibs. (daN)         -         -         -         -           Compressed Air Supply         Maximum Stroke         in (mm)         -         -         -         -           Compressed Air Supply         Long Stroke         SCF (N/m)         111 (4)         177 (5)         177 (5)           Max Electrode Force @ 116 psi (Bar)         gm (bar)         17 (6)         17 (6)         17 (6)         17 (6)           Max Electrode Stroke         SCF (N/m)         141 (4)         177 (6)         1	in (mm)	1.73 (44)	1.93 (49)	1.93 (49)
Max Electrode Force © 116 psi (8 bar)         Ibs. (daN)         1100 (500)         1364 (620)         1364 (620)           Working Stroke         in (mm)         0.2-12 (5-30)         0.160         0.160         0.160         0.160         0.160         0.160         0.160         0.160         0.160         0.160         0.160         0.160         0.160         116 (6)         116 (6)         116 (6)         116 (6)         116 (6)         117 (5)         117 (5)         117 (5)         117 (5)         117 (5)         117 (5)         117 (5)         117 (5)         117 (5)         117 (5)         117 (5)	in (mm)	9.6 (244)	11.6 (294)	11.6 (294)
Working Stroke         in (mn)         0.2-1.2 (5-30)         0.2-1.2 (5-30)         0.2-1.2 (5-30)           Maximum Stroke         in (mn)         3.0-3.9 (75-100)         3.0-3.9 (75-100)         3.0-3.9 (75-100)           Arm Maximum Length         in (mn)         .         .         .           Max Electrode Force @ 116 psi (8 bar)         lbs. (daN)         .         .         .           Max Electrode Force @ 116 psi (8 bar)         lbs. (daN)         .         .         .           Compressed Air Supply         psi (bar)         116 (8)         116 (8)         .         .           Air per 1000 Spots @ 116 psi (800K / 8 bar)         .         .         .         .         .           Compressed Air Supply         Air per 1000 Spots @ 116 psi (800K / 8 bar)         .         .         .         .           Compressed Air Supply         Short Stroke         SCF (N/m)         141 (4)         177 (5)         .         .           Maximum Stroke         SCF (N/m)         424 (12)         530 (15)         530 (15)           Hose Inside Ø         in (mn)         0.4 (10)         0.4 (10)         0.4 (10)           W90° Arms @ Min. Length         in (mn) / Class         .         .         .           W90° Arms @ M	in (mm)	-	-	-
Maximum Stroke         in (mm)         3.0-3.9 (75-100)         3.0-3.9 (75-100)         3.0-3.9 (75-100)           Arm Maximum Length         in (mm)         .         .         .           Max Electrode Force @ 116 psi (8 bar)         lbs. (daN)         .         .         .           Working Stroke         in (mm)         .         .         .         .           Compressed Air Supply         psi (bar)         116 (8)         116 (8)         .         .           Compressed Air Supply         psi (bar)         116 (8)         116 (8)         .         .           Compressed Air Supply         psi (bar)         116 (8)         .         .         .         .           Compressed Air Supply         Air per UOCD Sol Set 11 P it (800KP / 8 bar)         .         .         .         .         .           Compressed Air Supply         Long Stroke         SCF (N/m)         424 (12)         530 (15)         .         .         .           Hose Inside Ø         in (mm)         0.4 (10)         0.4 (10)         0.4 (10)         .         .         .           Wild For Cooling @ 36 psi (250 KP / 2.5 bar)         ggm (1pm)         1.7 (6)         1.7 (6)         .         .         .         .         .<	lbs. (daN)	1100 (500)	1364 (620)	1364 (620)
Arm Maximum Length         in (mm)         in (mm)         in (mm)         in (mm)         in (mm)           Max Electrode Force @ 116 psi (8 ba)         lbs. (daN)         .         .         .           Max Electrode Force @ 116 psi (8 ba)         lbs. (daN)         .         .         .           Maximum Stroke         in (mm)         .         .         .         .           Compressed Air Supply         psi (bar)         116 (8)         116 (8)         116 (8)         .           Compressed Air Supply         psi (bar)         1116 (8)         116 (8)         116 (8)         .           Compressed Air Supply         psi (bar)         1116 (8)         116 (8)         116 (8)         .           Compressed Air Supply         Diff Societ S	in (mm)	0.2-1.2 (5-30)	0.2-1.2 (5-30)	0.2-1.2 (5-30)
Max Electrode Force @ 116 psi (8 bar)         Ibs. (daN)         .         .           Working Stroke         in (mm)         .         .         .           Maximum Stroke         in (mm)         .         .         .           Compressed Air Supply         psi (bar)         116 (8)         116 (8)         116 (8)         116 (8)           Compressed Air Supply         Short Stroke         SCF (N/m)         141 (4)         177 (5)         177 (5)           Short Stroke         SCF (N/m)         1424 (12)         530 (15)         530 (15)           Hose Inside Ø           0.4 (10)         0.4 (10)         0.4 (10)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         ggm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           W/90° Arms @ 20° (508m)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20° (508m)         in (mm) / Class         0.5x0.55 (14x14)         0.63x0.63 (16)         0.71x0.71 (18x           w/90° Arms @ Aze Cobdom         in (mm) / Class         10.63x0.63 (16)         0.71x0.71 (18x           w/90° Arms @ Max.Length         in (mm) / Class         5.5x0.55 (14x14)         0.63x0.63 (16)         0.71x0.7	in (mm)	3.0-3.9 (75-100)	3.0-3.9 (75-100)	3.0-3.9 (75-100)
Working Stroke         in (mm)         · · · · · · · · · · · · · · · · · · ·	in (mm)	-	-	-
Maximum Stroke         in (mm)         In (6)         In (6)         In (6)           Compressed Air Supply         psi (bar)         116 (8)         116 (8)         116 (8)           Air per 1000 Spots © 110         Spots © 110         Spots © 100 (10)         100 (8)         117 (5)           Short Stroke         SCF (N/m)         141 (4)         177 (5)         177 (5)           Short Stroke         SCF (N/m)         424 (12)         530 (15)         530 (15)           Hose Inside Ø         in (mm)         0.4 (10)         0.4 (10)         0.4 (10)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           Wy90° Arms @ 120* (508mm)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)           w/90° Arms @ 20* (508mm)         in (mm) / Class         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)           w/90° Arms @ 20* (508mm)         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x*           W/90° Arms @ Max Length         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x*           0.060x0.060* (1.5x1.5mm)         #/Class         30 / A <td< td=""><td>lbs. (daN)</td><td>-</td><td>-</td><td>-</td></td<>	lbs. (daN)	-	-	-
Compressed Air Supply         psi (bar)         116 (8)         116 (8)         116 (8)           Air per 1000 Spots @ 116 psi (800kP / 8 bar)           Short Stroke         SCF (N/m)         141 (4)         177 (5)         177 (5)           Bost Stroke         SCF (N/m)         424 (12)         530 (15)         530 (15)           Hose Inside Ø         in (mm)         0.4 (10)         0.4 (10)         0.4 (10)         0.4 (10)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)         1.7 (6)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)           W/90° Arms @ D0° Arms @ D0° (50Bm)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)           W/90° Arms @ D0° forms @ Max_Length         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)           W/90° Arms @ D0° forms @ Max_Length         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)           W/90° Arms @ D0° (50Bm)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4)           W/90° Arms @ D0° (1x1mm) <th< td=""><td>in (mm)</td><td>-</td><td>-</td><td>-</td></th<>	in (mm)	-	-	-
Air per 1000 Spots © 116 psi (800kP / 8 bar)           Short Stroke         SCF (N/m)         141 (4)         177 (5)         177 (5)           Long Stroke         SCF (N/m)         424 (12)         530 (15)         530 (15)           Hose Inside Ø         in (mm)         0.4 (10)         0.4 (10)         0.4 (10)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           Max Thickness Mild Sheet Steel           w/90° Arms @ Min. Length         in (mm) / Class         0.16x0.16 (4x4) / B         0.16x0.16 (4x4),           w/90° Arms @ 20° (508mm)         in (mm) / Class         0.16x0.16 (4x4),         0.16x0.16 (4x4),           w/90° Arms @ Max. Length         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x1)           Welding Rate per Minute/Class           0.040x0.040° (1x1mm)         #/Class         30 / A         50 / A         50 / A           0.060x0.060° (1.5x1.5mm)         #/Class         10 / B         17 / B         17 / B           0.18x0.188° (2.5x2.5mm)         #/Class         10 / B         10 / B         10 / B           0.18x0.188° (2.5x2.5mm)         #/Class         6 / B         10 / B         10 / B	in (mm)	-	-	-
Short Stroke         SCF (N/m)         141 (4)         177 (5)         177 (5)           Long Stroke         SCF (N/m)         424 (12)         530 (15)         530 (15)           Hose Inside Ø         in (mn)         0.4 (10)         0.4 (10)         0.4 (10)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           Maxr Thickness Mild Sheet Steet         w/90° Arms @ Min. Length         in (mn) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20° (508m)         in (mn) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20° (508m)         in (mn) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20° (508m)         in (mn) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ Max. Length         in (mn) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.71x0.71 (18x           W         w/90° Arms @ Max. Length         in (mn) / Class         0.63x0.63 (16x16)         0.71x0.71 (18x           W         Bartin Max. Length         in (mn) / Class         70 / A         125 / A         125	psi (bar)	116 (8)	116 (8)	116 (8)
Long Stroke         SCF (N/m)         424 (12)         530 (15)         530 (15)           Hose Inside Ø         in (mm)         0.4 (10)         0.4 (10)         0.4 (10)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           Max Thickness Mild Sheet Steel           w/90° Arms @ Min. Length         in (mm) / Class         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20° (508mm)         in (mm) / Class         -         -         -           w/90° Arms @ 20° (508mm)         in (mm) / Class         -         -         -           w/90° Arms @ Max. Length         in (mm) / Class         -         -         -           w/90° Arms @ Max. Length         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x10)           w/90° Arms @ 0.040x0.040" (1x1mm)         #/Class         70 / A         125 / A         125 / A           0.060x0.060" (1.5x1.5mm)         #/Class         10 / B         17 / B         17 / B           0.098x0.098" (2.5x2.5mm)         #/Class         10 / B         10 / B         10 / B           0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B         10 / B      <	000 Spots @ 116	psi (800kP / 8 bar)		
Hose Inside Ø         in (mm)         0.4 (10)         0.4 (10)         0.4 (10)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           Water Cooling @ 36 psi (250 kP / 2.5 bar)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4).           Water Cooling @ 36 psi (250 kP / 2.5 bar)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4).           Water Cooling @ 36 psi (250 kP / 2.5 bar)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4).           Water Cooling @ 36 psi (250 kP / 2.5 bar)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4).           Water Cooling @ 36 psi (250 kP / 2.5 bar)         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.71 (18x1)           Water Cooling Rate per Minuter/Class         70 / A         125 / A         125 / A         125 / A           0.040x0.040* (1x1mm)         #/Class         30 / A         50 / A         50 / A         50 / A           0.080x0.080* (2x2mm)         #/Class         10	SCF (N/m)	141 (4)	177 (5)	177 (5)
Water Cooling @ 36 psi (250 kP / 2.5 bar)         gpm (lpm)         1.7 (6)         1.7 (6)         1.7 (6)           Water Cooling @ 36 psi (250 kP / 2.5 bar)           Water Cooling @ 36 psi (250 kP / 2.5 bar)           Water Cooling @ 36 psi (250 kP / 2.5 bar)           Water Cooling @ 36 psi (250 kP / 2.5 bar)           With Chass Shild Sheet Steel           With Chass         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20° (508mm)         in (mm) / Class         -         -         -           w/90° Arms @ 20° (508mm)         in (mm) / Class         -         -         -         -           w/90° Arms @ Aax. Length         in (mm) / Class         -         -         -         -           w/90° Arms @ Cross Wire Max Ø         in (mm) / Class         -	SCF (N/m)	424 (12)	530 (15)	530 (15)
Max Thickness Mild Sheet Steel           w/90° Arms @ Min. Length         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20° (508mm)         in (mm) / Class         -         -         -           w/90° Arms @ 20° (508mm)         in (mm) / Class         -         -         -           w/90° Arms @ Max. Length         in (mm) / Class         -         -         -           w/90° Arms, Cross Wire Max Ø         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x1)           w/90° Arms, Cross Wire Max Ø         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x1)           w/90° Arms, Cross Wire Max Ø         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x1)           w/90° Arms, Cross Wire Max Ø         in (mm)         8.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x1)           welding Rate per Minute/Class         70 / A         125 / A         125 / A         125 / A           0.040x0.060° (15x1.5mm)         #/Class         30 / A         50 / A         50 / A           0.080x0.080° (2x2mm)         #/Class         10 / B         17 / B         17 / B           0.118x0.118° (3x3mm)	in (mm)	0.4 (10)	0.4 (10)	0.4 (10)
w/90° Arms @ Min. Length         in (mm) / Class         0.12x0.12 (3x3) / B         0.16x0.16 (4x4) / B         0.16x0.16 (4x4) / B           w/90° Arms @ 20" (508mm)         in (mm) / Class         -	gpm (lpm)	1.7 (6)	1.7 (6)	1.7 (6)
w/90° Arms @ 20" (508mm)         in (mm) / Class         .         .           w/90° Arms @ Max. Length         in (mm) / Class         .         .         .           w/90° Arms @ Max. Length         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x1)           w/90° Arms, Cross Wire Max Ø         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x1)           Welding Rate per Minute/Class         . <t< td=""><td>lax Thickness Mild</td><td>Sheet Steel</td><td></td><td></td></t<>	lax Thickness Mild	Sheet Steel		
w/90° Arms @ Max. Length         in (mm) / Class	in (mm) / Class	0.12x0.12 (3x3) / B	0.16x0.16 (4x4) / B	0.16x0.16 (4x4) / I
w/90° Arms, Cross Wire Max Ø         in (mm)         0.55x0.55 (14x14)         0.63x0.63 (16x16)         0.71x0.71 (18x10)           Welding Rate per Minute/Class         Welding Rate per Minute/Class         70 / A         125 / A         125 / A           0.040x0.040" (1x1mm)         #/Class         30 / A         50 / A         50 / A           0.060x0.060" (1.5x1.5mm)         #/Class         30 / A         50 / A         50 / A           0.080x0.080" (2x2mm)         #/Class         15 / B         25 / B         25 / B           0.098x0.098" (2.5x2.5mm)         #/Class         10 / B         17 / B         17 / B           0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B           Net Weight (w/cables, hoses, suspension, no arms)         Ibs (kg)         117 (53)         157 (71)         165 (75)           ** Spring Balancer           Short Arms Capacity Required         Ibs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         Ibs (kg)         -         -         -	in (mm) / Class	-	-	-
Welding Rate per Minute/Class           0.040x0.040" (1x1mm)         #/Class         70 / A         125 / A         125 / A           0.060x0.060" (1.5x1.5mm)         #/Class         30 / A         50 / A         50 / A           0.080x0.080" (2x2mm)         #/Class         15 / B         25 / B         25 / B           0.098x0.098" (2.5x2.5mm)         #/Class         10 / B         17 / B         17 / B           0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B           Net Weight (w/cables, hoses, suspension, no arms)         Ibs (kg)         117 / 53)         157 (71)         165 (75)           ** Spring Balancer           Short Arms Capacity Required         Ibs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         Ibs (kg)         .         .         .	in (mm) / Class	-	-	-
0.040x0.040" (1x1mm)         #/Class         70 / A         125 / A         125 / A           0.060x0.060" (1.5x1.5mm)         #/Class         30 / A         50 / A         50 / A           0.080x0.080" (2x2mm)         #/Class         15 / B         25 / B         25 / B           0.098x0.098" (2.5x2.5mm)         #/Class         10 / B         17 / B         17 / B           0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B           Net Weight (w/cables, hoses, suspension, no arms)         Ibs (kg)         117 (53)         157 (71)         165 (75)           ** Spring Balancer           Short Arms Capacity Required         Ibs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         Ibs (kg)         -         -         -	in (mm)	0.55x0.55 (14x14)	0.63x0.63 (16x16)	0.71x0.71 (18x18
0.060x0.060" (1.5x1.5mm)         #/Class         30 / A         50 / A         50 / A           0.080x0.080" (2x2mm)         #/Class         15 / B         25 / B         25 / B         25 / B           0.098x0.098" (2.5x2.5mm)         #/Class         10 / B         17 / B         17 / B           0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B           Net Weight (w/cables, hoses, suspension, no arms)         Ibs (kg)         117 / 53)         157 (71)         165 (75)           ** Spring Balancer           Short Arms Capacity Required         Ibs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         Ibs (kg)         -         -         -	Velding Rate per M	inute/Class		1
O.080x0.080" (2x2mm)         #/Class         15 / B         25 / B         25 / B           0.098x0.098" (2.5x2.5mm)         #/Class         10 / B         17 / B         17 / B           0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B           Net Weight (w/cables, hoses, suspension, no arms)         lbs (kg)         117 (53)         157 (71)         165 (75)           ** Spring Balancer           Short Arms Capacity Required         lbs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         lbs (kg)         -         -         -	#/Class	70 / A	125 / A	125 / A
0.098x0.098" (2.5x2.5mm)         #/Class         10 / B         17 / B         17 / B           0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B         10 / B           Net Weight (w/cables, hoses, suspension, no arms)         Ibs (kg)         117 (53)         157 (71)         165 (75)           ** Spring Balancer           Short Arms Capacity Required         Ibs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         Ibs (kg)         -         -         -	#/Class	30 / A	50 / A	50 / A
0.118x0.118" (3x3mm)         #/Class         6 / B         10 / B         10 / B           Net Weight (w/cables, hoses, suspension, no arms)         Ibs (kg)         117 (53)         157 (71)         165 (75)           ** Spring Balancer           Short Arms Capacity Required         Ibs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         Ibs (kg)         I         I         I         I	#/Class	15 / B	25 / B	25 / B
Net Weight (w/cables, hoses, suspension, no arms)Ibs (kg)117 (53)157 (71)165 (75)** Spring BalancerShort Arms Capacity RequiredIbs (kg)121-143 (55-65)198-231 (90-105)198-231 (90-105)Short Arms Balancer RequiredModel #9368BR9371BR9371BRLong Arms Capacity RequiredIbs (kg)	#/Class	10 / B	17 / B	17 / B
** Spring Balancer       Short Arms Capacity Required     Ibs (kg)     121-143 (55-65)     198-231 (90-105)     198-231 (90-105)       Short Arms Balancer Required     Model #     9368BR     9371BR     9371BR       Long Arms Capacity Required     Ibs (kg)     Ibs (kg)     Ibs (kg)     Ibs (kg)	#/Class	6 / B	10 / B	10 / B
Short Arms Capacity Required         Ibs (kg)         121-143 (55-65)         198-231 (90-105)         198-231 (90-105)           Short Arms Balancer Required         Model #         9368BR         9371BR         9371BR           Long Arms Capacity Required         Ibs (kg)         Ibs (kg)         Ibs (kg)         Ibs (kg)         Ibs (kg)	lbs (kg)	117 (53)	157 (71)	165 (75)
Short Arms Balancer Required     Model #     9368BR     9371BR     9371BR       Long Arms Capacity Required     Ibs (kg)	** Spring Bal	ancer		
Long Arms Capacity Required Ibs (kg)	lbs (kg)	121-143 (55-65)	198-231 (90-105)	198-231 (90-105
	Model #	9368BR	9371BR	9371BR
Long Arms Balancer Required Model #	lbs (kg)	-	-	-
· · · · ·	/	Model #           kVA           kVA           A           KA           V           The second se	Model #         WTG-3025Q           kVA         36           kVA         115           A         22,800           kA         4           V         6.3           V         440           mm         16           A         63           in (mm)         5.5 (140)           in (mm)         1.65 (42)           in (mm)         1.73 (44)           in (mm)         9.6 (244)           in (mm)         0.2-1.2 (5-30)           in (mm)         1100 (500)           in (mm)         0.2-1.2 (5-30)           jin (mm)         1.0           ggm (ipm)         1.7 (6)           Matt (4)         SCF (N/m)         424 (12)	Model #         WTG-3025Q         WTG-3033Q           kVA         36         53           kVA         115         150           A         22,800         26,500           kA         4         5.3           V         6.3         7.1           V         440         440           mm         16         25           A         63         100           in (mm)         5.5 (140)         5.8 (148)           in (mm)         1.65 (42)         1.85 (47)           in (mm)         1.73 (44)         193 (49)           in (mm)         9.6 (244)         11.6 (294)           in (mm)         0.2-12 (5-30)         0.2-12 (5-30)           js (daN)         -

SPECIFICATIONS	UNITS	LG	LG	LG	LLG	LLG	LLG
Built-In Weld Control TE470 (or optional FE 480)	Model #	WTG-3154	WTG-3160	WTG-3166	WTG-3156	WTG-3162	WTG-3168
External Weld Control Model 1254	Model #	WTG-3155	WTG-3161	WTG-3167	WTG-3157	WTG-3163	WTG-3169
Power @ 50% Duty Cycle	kVA	53	60	75	53	60	75
Max Power	kVA	147	192	260	147	192	256
Short Circuit Current	А	26,000	30,000	32,500	26,000	30,000	32,000
Thermal Current @ 100%	kA	5.3	5.3	5.3	5.3	5.3	5.3
Secondary Voltage	v	7.1	8	10	7.1	8	10
* Supply Voltage (@60Hz)	v	440	440	440	440	440	440
Primary Cables Ø (up to 30m)	mm	25	25	35	25	25	35
Delayed Fuses @ 440VAC	A	100	100	125	100	100	125
Arm Centerline Distance	in (mm)	8.6 (219)	8.6 (219)	8.6 (219)	12.3 (312)	12.3 (312)	12.3 (312)
nsulated Arms Connection Ø	in (mm)	1.85 (47)	1.85 (47)	1.85 (47)	1.85 (47)	1.85 (47)	1.85 (47)
Non-Insulated Arms Connection Ø	in (mm)	1.93 (49)	1.93 (49)	1.93 (49)	1.93 (49)	1.93 (49)	1.93 (49)
Ø Gyro Suspension	in (mm)	11.6 (294)	11.6 (294)	11.6 (294)	11.6 (294)	11.6 (294)	11.6 (294)
Arm Minimum Length	in (mm)	10.0 (255)	10.0 (255)	10.0 (255)	10.0 (255)	10.0 (255)	10.0 (255)
Max Electrode Force @ 116 psi (8 bar)	lbs. (daN)	1881 (855)	1881 (855)	1881 (855)	1881 (855)	1881 (855)	1881 (855)
Working Stroke	in (mm)	0.2-0.8 (5-20)	0.2-0.8 (5-20)	0.2-0.8 (5-20)	0.2-0.8 (5-20)	0.2-0.8 (5-20)	0.2-0.8 (5-20)
Maximum Stroke	in (mm)	2.0-2.8	2.0-2.8	2.0-2.8	2.0-2.8	2.0-2.8	2.0-2.8
		(50-70)	(50-70)	(50-70)	(50-70)	(50-70)	(50-70)
Arm Maximum Length	in (mm)	40.6 (1030)	40.6 (1030)	40.6 (1030)	40.6 (1030)	40.6 (1030)	40.6 (1030)
Max Electrode Force @ 116 psi (8 bar)	lbs. (daN)	539 (245)	539 (245)	539 (245)	539 (245)	539 (245)	539 (245)
Working Stroke	in (mm)	0.2-2.4 (5-60)	0.2-2.4 (5-60)	0.2-2.4 (5-60)	0.2-2.4 (5-60)	0.2-2.4 (5-60)	0.2-2.4 (5-60)
Maximum Stroke	in (mm)	71-9.8 (180-250)	71-9.8 (180-250)	7.1-9.8 (180-250)	7.1-9.8 (180-250)	7.1-9.8 (180-250)	7.1-9.8 180-250)
Compressed Air Supply	psi (bar)	116 (8)	116 (8)	116 (8)	116 (8)	116 (8)	116 (8)
		Air per 1000	) Spots @ 116 psi (8	00kP / 8 bar)			
Short Stroke	SCF (N/m)	177 (5)	177 (5)	177 (5)	177 (5)	177 (5)	177 (5)
Long Stroke	SCF (N/m)	388 (11)	388 (11)	388 (11)	388 (11)	388 (11)	388 (11)
Hose Inside Ø	in (mm)	0.5 (13)	0.5 (13)	0.5 (13)	0.5 (13)	0.5 (13)	0.5 (13)
Water Cooling @ 36 psi (250 kP / 2.5 bar)	gpm ( <b>I</b> pm)	2.2 (8)	2.2 (8)	2.2 (8)	2.2 (8)	2.2 (8)	2.2 (8)
		Max	Thickness Mild Shee	t Steel			
w/90° Arms @ Min. Length	in (mm)/Class	0.16 x 0.16 (4 x 4) / B	0.18 x 0.18 (4.5 x 4.5) / B	0.18 x 0.18 (4.5 x 4.5) / B	0.16 x 0.16 (4 x 4) / B	0.18 x 0.18 (4.5 x 4.5) / B	0.18 x 0.18 (4.5 x 4.5) / B
w/90° Arms @ 20" (508mm)	in (mm)/Class	0.11 x 0.11 (2.8 x 2.8) / B	0.11 x 0.11 (2.8 x 2.8) / B	0.11 x 0.11 (2.8 x 2.8) / B	0.11 x 0.11 (2.8 x 2.8) / B	0.11 x 0.11 (2.8 x 2.8) / B	0.11 x 0.11 (2.8 x 2.8) / B
w/90° Arms @ Max. Length	in (mm)/Class	0.12 x 0.12	0.12 x 0.12	0.12 x 0.12	0.12 x 0.12	0.12 x 0.12	0.12 x 0.12
wide ville and Longar		(3 x 3) / C	(3 x 3) / C	(3 x 3) / C	(3 x 3) / C	(3 x 3) / C	(3 x 3) / C
w/90° Arms, Cross Wire Max Ø	in (mm)	0.71 x 0.71 (18 x 18)	0.79 x 0.79 (20 x 20)	0.79 x 0.79 (20 x 20)	0.71 x 0.71 (18 x 18)	0.79 x 0.79 (20 x 20)	0.87 x 0.87 (22 x 22)
		Weldi	ing Rate per Minute /	Class			
0.040x0.040" (1x1mm)	#/Class	125/A	125/A	125/A	125/A	125/A	125/A
0.060x0.060" (1.5x1.5mm)	#/Class	50/A	50/A	50/A	50/A	50/A	50/A
0.080x0.080" (2x2mm)	#/Class	25/A	25/A	25/A	25/A	25/A	25/A
0.098x0.098" (2.5x2.5mm)	#/Class	17/A	17/A	17/A	17/A	17/A	17/A
0.118x0.118" (3x3mm)	#/Class	10/A	10/A	10/A	10/A	10/A	10/A
Net Weight w/cables, hoses, suspension, no arms)	lbs (kg)	172 (78)	181 (82)	192 (87)	174 (79)	183 (83)	194 (88)
			** Spring Balancer		1	1	
	lbs (kg)	165-198 (75-90)	198-231 (90-105)	198-231 (90-105)	165-198 (75-90)	198-231 (90-105)	198-231 (90-105
Short Arms Capacity Required		,		9371BR	9370BR	9371BR	9371BR
	Model #	9370BR	9371BR				
Short Arms Balancer Required						220-253 (100-120)	220-253 (100-12
	Model # Ibs (kg) Model #	9370BR 220-253 (100-120) 9422BR	9371BR 220-253 (100-120) 9422BR	220-253 (100-120) 9422BR	220-253 (100-120) 9422BR	220-253 (100-120) 9422BR	220-253 (100-12 9422BR

#### HAND OPERATED AIR-COOLED SPOT WELDING GUNS

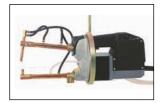


#### WTG-7902

Hand Operated, Air-Cooled Gun - 2.5 kVA

- Versatile portable spot weld gun for auto body repair shops, plant maintenance, and rework.
- Build in electronic timer with SCR. Weld time setting from 2-65 cycles.
- Compensation circuit starts the timer only when the current is properly passing through the material, enabling better performance on oxidized sheets, as well as surfaces with paint residues or scale.
- Current control with phase shift adjustment for making more difficult welds on thin material, small diameter rod/bar stock, stainless steel and more.
- Manual force adjustment with scale in daN (dekanewtons). 1 daN = 2.2 lbs.
- Additional arm couplings included with some arm sets provide larger gap between arms.
- Air-cooled Transformer coated with F-class insulation, tested to 4000 volts.
- Supplied complete with 125mm Arms (Item TE7401).
- Large choice of standard arms and electrodes, as well as custom arms.
- Weld control with pulsation available, ask about the WTG-7902P.

#### AIR OPERATED WATER-COOLED SPOT WELDING GUNS



#### WTG-7913

Air Operated, Water-Cooled Gun

w/Gyro Ring - 6 kVA

- Light and proven spot welding gun for auto body repair shops, plant maintenance, and rework.
- Build in electronic timer with SCR. Weld time setting from 2-65 cycles.
- Compensation circuit starts the timer only when the current is properly passing through the material, enabling better performance on oxidized sheets, as well as surfaces with paint residues or scale.
- Current control with phase shift adjustment for making more difficult welds on thin material, small diameter rod/bar stock, stainless steel and more.

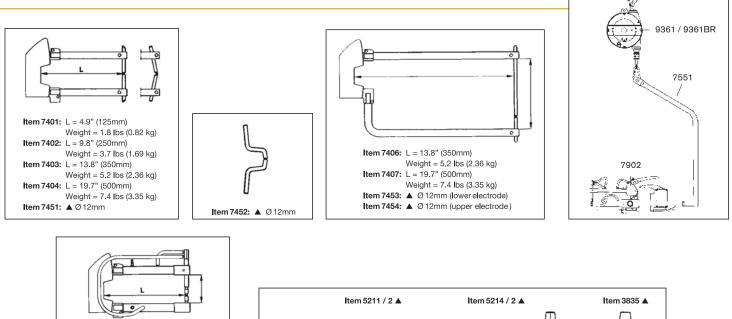
		мо	DEL
SPECIFICATION	UNITS	WTG-7902	WTG-7913
Gun Type		Scissor	Scissor
Manual/Pneumatic		Manual	Pneumatic
Power @ 50% Duty Cycle	kVA	2.5	6
Secondary Voltage	V	2.5	2.5
* Supply Voltage (@60Hz)	v	440	440
Delayed Fuses @ 440VAC	A	12	12
Primary Cables Ø (up to 10m)	mm	2.5	2.5
Short Circuit Current	А	8,200	8,200
Max Welding Current	A	6,550	6,550
Duty Cycle w/Max Welding Current	%	1.1	6.7
Arm Minimum/Maximum Length	in (mm)	4.9-19.7 (125-500)	4.9-19.7 (125-500
Arm Spacing (Gap)	in (mm)	3.7 (94)	3.7 (94)
Arm Ø	in (mm)	0.87 (22)	0.87 (22)
Electrode Holder Ø	in (mm)	-	0.55 (14)
Electrode Diameter	in (mm)	0.47 (12)	-
Electrode Taper	MT/RW	-	1MT/4RW
Working Stroke	in (mm)	2.2-7.3 (55-185)	1.4-3.5 (35-90)
Max Electrode Force w/ 4.9" (125mm) Arms	lbs. (daN)	264 (120)	264 (120)
Max Electrode Force w/19.7" (500mm) Arms	lbs. (daN)	84 (38)	84 (38)
Pneumatic Hose Inside Ø	in (mm)	-	0.24 (6)
Compressed Air Supply	psi (bar)	-	87 (6)
Air per 1000 Spots @ 72.5 psi (500kP / 5 bar)	SCF (Nm)	-	35 (1)
Water Hose Inside Ø	in (mm)	-	0.24 (6)
Water Cooling @ 36 psi (250 kP / 2.5 bar)	gpm (lpm)	-	0.66 (2.5)
Dimensions (LxWxH)	in (mm)	3.5 x 14.6 x 9.0 (90 x 370 x 230)	4.3 x 18.7 x 8.0 (108 x 475 x 203)
Net Weight	lbs (kg)	24.2 (11)	35.2 (16)
Packing Box Dimensions	in (mm)	6.7 x 18.1 x 13.8 (17 x 46 x 35)	11.0 x 24.0 x 14.2 (28 x 61 x 36)
Gross Shipping Weight	lbs (kg)	28.6 (13)	44 (20)
Capacity Mild Steel Sheet	in (mm)	0.10x0.10 (2.5x2.5)	0.08x0.08 (2x2)
Capacity Mild Steel Rod	in (mm)	0.32 x 0.32 (8 x 8)	0.24 x 0.24 (6 x 6)
** Spi	ring Balancer		
Working Load Required	lbs (kg)	22-33 (10-15)	33-44 (15-20)
Short Arms Balancer Required	Model #	9361BR	9362BR
*May be supplied capable of operating on other	voltages/freque	encies. Please ask fo	or details.

• Built-in pressure switch operates the timer when the electrode force is correct.

\*\* See page 14 for Balancer specifications

- Additional arm couplings included with some arm sets provide larger gap between arms.
- Water-cooled Transformer coated with F-class insulation, tested to 4000 volts.
- Does not include arms. A large choice of standard arms and electrodes is available, as well as custom arms.
- Weld control with pulsation available, ask about the WTG-7913P.

# LIGHT-DUTY WELD GUN ARM CONFIGURATIONS ELECTRODES and ACCESSORIES



Item 7412: L = 5.9" (150mm) Weight = 2.3 lbs (1.04 kg) Item 7413: L = 9.8" (250mm) Weight = 3.4 lbs (1.55 kg) Item 7414: L = 13.8" (350mm) Weight = 4.6 lbs (2.10 kg) Item 7415: L = 19.7" (500mm) Weight = 6.6 lbs (3.00 kg) 
 Item 5211 / 2 ▲
 Item 5214 / 2 ▲
 Item 3835 ▲

 Image: the state of the state of

Supplied as 1 pair of electrodes



# **BUILT-IN CONTROL UNITS**

#### CONTROL UNIT TE300

Available on: Gun Models 3321-3328

- 2 Welding Programs, selectable via toggle switch
- Programming in % Current (Pulse Width)
- Optional Keyed Programming Lockout (OPTION 3311)

#### **CONTROL UNIT TE470**

Available On: Gun Models 3321-3328, 3020-3040, 3154-3168

- 63 Welding Programs, with two different selection options:
- > 2 Selectable via toggle switch: OPTION 3310
- > 4 Selectable via selector knob: OPTION 3305
   Programming in Constant Current (kA)
- Display of Weld Current in kA and Conduction Angle
- Half-Cycle weld time adjustment
- Stepper function with programmable curve
- · Weld Counter
- · Password Function for Programming Lockout



CONTROL UNIT TE470



#### CONTROL UNIT TE480

Available On: Gun Models 3321-3328, 3020-3040, 3154-3168

- · 63 Welding Programs, with 2 selectable via toggle switch
- Programming in Constant Energy (J)
- · Display of Weld Current in kA and Conduction Angle
- · Half-Cycle weld time adjustment
- · Stepper function with programmable curve
- Weld Counter

CONTROL UNIT TE480

#### EXTERNAL CONTROL UNIT CONTROL UNIT TE560 mounted in Enclosure with Filter / Regulator, SCR

#### Firing Board (Model 1253/1254)

Available On: Gun Models 3021-3041, 3155-3169

- · 250 Welding Programs, with 2 selectable via toggle switch
- Programming in Constant Current (kA)
- Display of Weld Current in kA and Conduction Angle
- · Half-Cycle weld time adjustment
- Stepper function with programmable curve
- Weld Counter
- · Keyed Program/Run Lockout Switch
- Serial communication via insulated RS-232 Interface or USB. (OPTIONAL, ask WSI for details)
- · Constant Energy Working Mode available (OPTIONAL, ask WSI for details)



CONTROL UNIT 1253/1254 (TE560 Control )

Developing	As Disclosed	11.21.		Range	e by Control	
Parameter Name	As-Displayed	Units	TE300	TE450	TE470	TE480
First Squeeze Time	SQUEEZE 1	Cycles (Hz)	00-99	00-99	00-99	00-99
Squeeze Time	SQUEEZE	Cycles (Hz)	01-99	01-99	01-99	01-99
Pre-Weld Time	PRE-WELD	Cycles (Hz)	00-60	00.0-99.0	00.0-99.0	00.0-99.0
Pre-Weld Current	PRE-POWER	% Current	01-99	05-99	05-99	05-99
Cold Time 1	COLD 1	Cycles (Hz)	00-50	00-50	00-50	00-50
Upslope Time	SLOPE UP	Cycles (Hz)	00-29	00-25	00-25	00-25
Weld Time	WELD 1	Cycles (Hz)	01-60	00.5-99.5	00.5-99.5	00.5-99.5
Weld Current	POWER/CURRENT	% / kA	01-99	05-99 / 2.0-30.0	05-99 / 2.0-30.0	05-99 / 2.0-30.0
Number of Impulses	N. IMPULSE	#	01-09	01-09	01-09	01-09
Cold Time 2	COLD 2	Cycles (Hz)	-	00-50	00-50	00-50
Downslope Time	SLOPE DOWN	Cycles (Hz)	-	00-25	00-25	00-25
Cold Time 3	COLD 3	Cycles (Hz)	-	00-50	00-50	00-50
Post-Weld Time	POST-WELD	Cycles (Hz)	-	00.0-99.0	00.0-99.0	00.0-99.0
Post-Weld Current	POST-POWER	%	-	05-99	05-99	05-99
Hold Time	HOLD TIME	Cycles (Hz)	01-99	01-99	01-99	01-99
Off Time	OFF TIME	Cycles (Hz)	00-99	00-99	00-99	00-99
Current Minimum Limit	CURR. MIN.	kA	-	1.0-36.0	1.0-36.0	1.0-36.0
Angle Minimum Limit	ANGLE MIN.	Degrees(°)	-	005-180	005-180	005-180
Currrent Maximum Limit	CURR. MAX.	kA	-	1.0-36.0	1.0-36.0	1.0-36.0
Angle Maximum Limit	ANGLE MAX	Degrees(°)	-	005-180	005-180	005-180
Pressure Proportional Valve	PRESSURE	bar	-	-	0.5-10.0	0.5-10.0
Minimum Welding Time	WELD MIN.	Cycles (Hz)	-	-	-	00.5-99.5
Maximum Welding Time	WELD MAX.	Cycles (Hz)	-	-	-	00.5-99.5
Energy	ENERGY	J (Joules)	-	-	-	60,000

# **SPRING BALANCERS**

Recommended Balancers for Weld Guns in this catalog.

Check our **www.TECNADirect.com** for the complete line of Spring Balancers.









Part #	load range Ibs (kg)	stroke length in (mm)	weight Ibs (kg)	packaging Ibs (kg)	shipping dimensions in (mm)
9361BR	22 - 33	78.74	20	26	17.9 x 10.6 x 1
	(10 - 15)	(2000)	(9.2)	(11.8)	(455 x 270 x 280
9362BR	33 - 44	78.74	21	27	17.9 x 10.6 x 1
	(15 - 20)	(2000)	(9.5)	(12.1)	(455 x 270 x 28
9367BR	99 - 21	78.74	28	32	17.9 x 10.6 x 1
	(45 - 55)	(2000)	(12.5)	(14.5)	(455 x 270 x 28
9368BR	121 - 143	78.74	30	34	17.9 x 10.6 x 1
	(55 - 65)	(2000)	(13.6)	(15.6)	(455 x 270 x 28
9369BR	143 - 165	78.74	32	36	17.9 x 10.6 x 1
	(65 - 75)	(2000)	(14.5)	(16.5)	(455 x 270 x 28
9370BR	165 - 198	78.74	38	42	17.9 x 10.6 x 1
	(75 - 90)	(2000)	(17.3)	(19)	(455 x 270 x 280
9371BR	198 - 232	78.74	40	44	17.9 x 10.6 x 1
	(90 - 105)	(2000)	(18)	(20)	(455 x 270 x 280
9422BR	220 -265	98.4	85	94	23.6 x 12.6 x
	(100 - 120)	(2500)	(38.7)	(42.5)	(600 x 320 x 33

#### TECNA Weld Gun Arms / Balancer Matchup Charts

16 (408)

10 (255)

			Arm L	.ength			
Gun Model	7 (190)	10 (255)	14 (350)	20 (500)	26 (650)	32 (800)	
3321			9367BR *				
3322		9367BR			93688BR		
3324	*		9368	38BR		*	

24 (610)

32 (820)

41 (1030)

9371BR

# Gun Model Standard Arms 3323 9368BR 3024 / 3025 9368BR 3032 / 3033 9371BR 3040 / 3041 9371BR

#### LIGHT-DUTY X-GUN / SCISSOR-GUN

Gun Model	Standard Arms
7902	9361BR
7913	9362BR

X-GUN / SCISSOR GUN

Gun Model

	3328		9370BR		9371BR	*	
5							
5	Gun Model	10 (255)	16 (408)	24 (610)	32 (820)	41 (1030)	
	3154	9370BR		9371BR		9422BR	
5	3155	9370BR		9371BR		9422BR	
	3160		937	1BR		9422BR	
	3161		937	1BR		9422BR	
	3166		9371BR		942	2BR	
	3167		9371BR		942	2BR	
	3156	9370BR		9371BR		9422BR	
	3157	9370BR		9371BR		9422BR	
	3162		9371BR		942	2BR	
	3163		9371BR 9422			2BR	
	3168	937	1BR		9422BR		
	3169	937	1BR		9422BR		
					*	– not available	

9370BR

# **TRIGGER (CONTROL) HANDLES**



Holder to Mount the standard 2-Program Trigger Handle on Spot Gun Side, including additional 'dummy' handle without control. Additional Dummy Handle allows for best ergonomics.



Holder to Mount the standard 2-Program Trigger Handle on Spot Gun Side, including additional 2-Program Trigger Handle. Allows selection between 4 spot welding programs (2 per handle).



Holder to Mount a 4-Program Trigger Handle (included) on Spot Gun Side, including additional 'dummy' handle without control. Additional Dummy Handle allows for best ergonomics.



Holder to Mount the standard 2-Program Trigger Handle on Underside of Spot Gun, including additional 'dummy' handle without control. Additional Dummy Handle allows for best ergonomics.



Holder to Mount the standard 2-Program Trigger Handle on Underside of Spot Gun, including additional 2-Program Trigger Handle. Allows selection between 4 spot welding programs (2 per handle).



Holder to Mount a 4-Program Trigger Handle (included) on Underside of Spot Gun, including additional 'dummy' handle without control. Additional Dummy Handle allows for best ergonomics.

			OPTI	ON #		
Trigger Handle Options	А	В	С	D	E	F
3321/2/3/4 with TE300/450/470*/480 Control	3315	•	•	3313		•
3327/8 with TE300/450/470*/480 Control	3315	•	•	3314	•	•
3321/2/3/4 only with TE470* Control	•	3317	•		3319	•
3327/8 only with TE470* Control	•	3317	•		3320	•
3321/2/3/4 only with TE470** Control	•	•	3315	•	•	3313
3327/8 only with TE470** Control	•	•	3315	•	•	3314
302X C-Guns with TE470*/480 & 1253/54(560) Controls	3103	3193	•	3101	3191	•
303X-304X C-Guns with TE470*/480 & 1253/54(560) Controls	3104	3194	•	3102	3192	•
312X Scissor Guns with TE470*/480 & 1253/54(560) Controls	3103	3193	•	3101	3191	•
315X-316X Scissor Guns with TE470*/480 & 1253/54(560) Controls	3104	3194	•	3102	3192	

\* = TE470 Option 3310, 2-Program Selector Handles

\*\* = TE470 Option 3305, Single 4-Position Selector

 $\cdot$  = n/a not applicable

**ACCESSORIES** (available for Heavy-Duty, Medium-Duty and Light-Duty Spot Welding Guns) Check out www.TECNADirect.com for the complete line of Accessories.

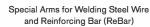
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Option 3180:

**Proportional Valve** 





ing Steel Wire Welding Gun ar (ReBar) Suspension and Cranes





Optional Water Flow Switch

Air Filter / Regulator

**Option 3180: Proportional Valve:** Allows programming of weld force from within each weld program, and allows monitoring of weld force within the weld control.

Options 4836 / 4837 / 4838 / 4839 / 4847 / 4848 / 4849: Special Arms for Welding Steel Wire and Reinforcing Bar (ReBar).

Welding Gun Suspension and Cranes: Ceiling-Mounted Monorails and Bridge Rails, Floor-Mounted Bridge Rails and Jib Cranes, and Beam Mounted Jib Cranes **Optional Water Flow Switch:** Water flow switch prevents the weld gun from welding if cooling waterflow is not detected.

Air Filter / Regulator (one is included with each weld gun).



**Industrial Resistance Welders and Tool Balancers** 

4943 Driscoll Road · Warrensville Heights, OH 44146 USA

Spot | Projection | Seam | Butt | Capacitor Discharge Resistance / MIG / TIG / Plasma Automation & Robotics Consumables Accessories | Engineering | Service

Consumables Ad







