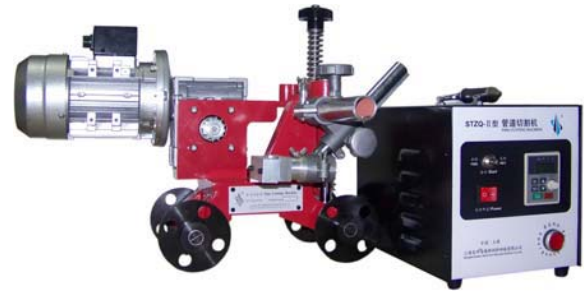




STZQ-I



STZQ-II

The STZQ pipe cutting machine is expressly developed for critical pipe applications that require enhanced cut quality and accuracy. The lightweight durable Motorized Orbit Machine is known throughout the welding industry for its longevity, dependability and precise cutting ability. The intent of the 220vac 50/60 Hertz Motorized Orbit Machine is to rotate a plasma or Oxy/fuel machine torch as rapidly as possible around the surface of a stainless steel, alloy steel or carbon steel pipe, while producing a smooth high quality cut.

The inexperienced and experienced welder can also improve their productivity simply with accuracy and speed. Smooth even precise cuts, that require little or no grinding, can be made with the Motorized Orbit Machine. Productivity is increased and fatigue is not a factor as the machine continually rotates the same speed throughout the day.

The Motor Control Box of STZQ-I pipe cutting machine has a mode switch to choose local or remote control mode. The local and remote control box both have a switch with Forward-Stop -Reverse Positions and a Rheostat to control the rotational speed. Remote control operation removes the operator from the vicinity of the arc, heat and noise. Motor orbit machine are available for pipe sizes 320-3000mm, up to 6000mm if customized.

EASY SET-UP—Requires little or no operator skill or training to set up and achieve the accuracy of cutting required for quality fit-up.

ADAPTABLE—Can be used with most Oxy/fuel or Plasma Torches.



PRECISE—The orbital track once entwined on the pipe, gives the machine ability to produce a high quality cut with extreme accuracy.

90% FASTER—as it virtually eliminates grinding after cutting. **INCREASED PRODUCTIVITY**—as operator fatigue is not a factor.

PLASMA SPEED—the Motorized Kit will rotate the plasma torch around the pipe at plasma speed.

VERSATILE—A Transformer is available for 110vac operation.



Oxyacetylene cutting, V-type of bevel
Pipe size dia 1067mm, wall thickness 14mm



Plasma cutting, V-type bevel
Pipe size dia 3740mm, wall thickness 22mm, spiral seam pipe

2-010-0020



STZQ-I Pipe cutting machine
(Double torches)

2-020-0010



STZQ-II Pipe cutting machine

Item	Parameter	Item	Parameter
Main frame size	420mm×610mm×400mm	Pipe size	320-3000mm
Main kit weight	17kg	Cutting speed	0-800mm/min
Gross weight	25kg	Cutting accuracy	<1mm
Packing size	600mm×400mm×480mm	Surface finish	<12.5 μm
Packing weight	25kg	Cutting direction	Forward-stop-reverse
Rated power	60W	Bevel	±45°
Power supply	220vac,50/60Hz	Horizontal adjustment	0-250mm

- Available for Oxy/fuel cutting, remote control box standard
- Optinal double torch feature

Item	Parameter	Item	Parameter
Main frame size	532mm×490mm×400mm	Pipe size	320-3000mm
Main kit weight	19.2kg	Cutting speed	400-4000mm/min
Gross weight	36kg	Cutting accuracy	<1mm
Packing size	604mm×564mm×442mm	Surface finish	<6.3 μm
Packing weight	47kg	Cutting direction	Forward-stop-reverse
Rated power	400W	Bevel	±45°
Power supply	220vac,50/60Hz	Horizontal adjustment	0-250mm

- Available for plasma or Oxy/fuel cutting
- Optinal double torch feature
- Converter technology for self compensating motor control speed
- Parameter display module standard

Cutting Benchmarks to Date

- Max OD : 3740mm
- Max w/t : 110mm
- Finish : No grinding required
- Special Bevel : Double V bevel, 'X' bevel
- Special Pipe : Spiral seam pipe
Coated pipe

You may encounter SZTQ in the following countries



Type	Part No.	Contents
STZQ-I Pipe Cutting Machine (Oxy/fuel cutting, single torch)	2-010-0010	Includes 1 orbit track STG5, 1 claw connetor, 1 chain union, 2.5m chain 8m power cord, 8m control cord, 1 remote control box, 1 user manual 1 set of tool kit, 1 QA/QC certificate, 1 warranty card(12 months)
STZQ-I Pipe Cutting Machine (Oxy/fuel cutting, double torches)	2-010-0020	1 set of 2-010-0010, 1 set of double torch assembly instead of single torch in 2-010-0010
STZQ-II Pipe Cutting Machine (Plasma or Oxy/fuel cutting, single torch)	2-020-0010	Includes 1 motor control box, 7 claw connectors, 1 chain union 10m chain, 1.8m power cord, 15m control cord, 1 orbital track STG1, 1 orbital track STG2, 1 orbital track STG3 orbit, 1orbital track STG4, 1orbital track STG5, 2 orbital tracks STG6, 1 set of tool kit, 1 protective case, 1 user manual, 1 QA/QC certificate , 1 warranty card(12 months)



Accessories and Specification



2-010-0011



2-010-0012



2-020-0011



2-030-0015



2-030-0014



2-030-0013

2-030-0017



2-040-0055



2-020-0013



2-010-0014

Name	Part No.	Description	Estimated shipping weight(kg)
STZQ-I Motor Control box	2-010-0011	Controls rotation speed, direction and interface for 2-010-0012 RC Box, 220vac, 50/60Hz	1.5
Remote Control Box for STZQ-I Machine	2-010-0012	Remote control unit	0.4
Motor Control Box of STZQ-II Machine	2-020-0011	Adopted converter technique to accurately control the rotate direction and speed of motor with speed compensating and analogue display, 220vac, 50/60Hz	6.3
Anti-skid Chain	2-030-0013	Anti-skid and rust-resisting chain with sawtooth side panel	0.5
Chain Union	2-030-0014	Patented design connector	0.1
Claw Connector	2-030-0015	Orbital track connector	0.25
Orbital Track STG1	2-030-0116	Cutting guide 0.5mm positioning accuracy, 0.98m length, adjustment 0.54m to 0.71m	2.1
Orbital Track STG2	2-030-0216	Cutting guide 0.5mm positioning accuracy, 1.23m length, adjustment 0.79m to 0.96m	2.7
Orbital Track STG3	2-030-0316	Cutting guide 0.5mm positioning accuracy, 1.38m length, adjustment 0.91m to 1.16m	3.0
Orbital Track STG4	2-030-0416	Cutting guide 0.5mm positioning accuracy, 1.72m length, adjustment 1.16m to 1.45m	3.8
Orbital Track STG5	2-030-0516	Cutting guide 0.5mm positioning accuracy, 1.90m length, adjustment 1.46m to 1.63m	4.2
Orbital Track STG6	2-030-0616	Cutting guide 0.5mm positioning accuracy, 2.50m length, adjustment 2.06m to 2.23m	5.6
Protective Case for STZQ-II Machine	2-020-0012	Aluminum alloy storage box	12
Control Cord for STZQ-II Machine	2-020-0013	Wear and heat resistant(unit:15m)	1.3
Power Cord for STZQ-I Machine	2-010-0013	Wear and heat resistant(unit:8m)	0.7
Control Cord for STZQ-I Machine	2-010-0014	Wear and heat resistant(unit:8m)	0.7
Tool Kit	2-030-0017	Including all matching tools	3.1
Protective Case for STZQ-II Machine	2-040-0055	Aluminum alloy storage box	12



Orbital Track Details
(from up to down)

STG1 2-030-0116

STG2 2-030-0216

STG3 2-030-0316

STG4 2-030-0416

STG5 2-030-0516



2-040-0011



2-040-0012



2-040-0013



2-040-0014



2-040-0015



2-040-0016



2-040-0017



2-040-0018

Accessories and Specification

Name	Part No.	Description	Estimated shipping weight(kg)
Single Torch Assembly	2-040-0011	3 gas hoses,3 air valves, 1 gas distributor(3 head)	1.4
Double Torch Assembly	2-040-0012	2 torches,6 gas hoses,6 air valves, 1 gas distributor(6 head)	2.8
Angle Block	2-040-0013	Aluminum alloy	0.8
Nozzle	2-040-0014	Standard nozzle 1#(supplied as standard) for materials 20mm to 30mm thickness. Please specify material thickness to be cut if outside standard supplied	0.1
Extension Arm	2-040-0015	Length-300mm	0.6
Extension Arm	2-040-0016	Length-500mm	1.0
Wheel	2-040-0017	Suitable for STZQ series machines	0.6
Drive Motor	2-040-0018	Suitable for STZQ-I machine	4.7
Drive Motor	2-040-0019	Suitable for STZQ-II machine	10.2

Orbit Matching Table

No.	OD range of pipe	Orbit or orbit combination
1	320mm-400mm	STG3
2	400mm-495mm	STG4
3	495mm-550mm	STG5
4	550mm-680mm	STG1+STG3
5	630mm-770mm	STG1+STG4
6	730mm-830mm	STG1+STG5
7	810mm-915mm	STG2+STG5
8	915mm-1020mm	STG1+STG6
9	980mm-1100mm	STG2+STG6
10	1040mm-1160mm	STG3+STG6
11	1120mm-1250mm	STG4+STG6
12	1219mm-1310mm	STG5+STG6
13	1270mm-1480mm	STG3+STG4+STG5
14	1410mm-1500mm	STG6+STG6
15	1450mm-1595mm	STG1+STG5+STG6
16	1520mm-1675mm	STG2+STG5+STG6

Note: a)Single orbit or combinations are simple and convenient to use.
 b)Customers can select orbit combinations not limited to the table above.

How to choose the correct STZQ series machine for your requirements.

Step 1: Choose suitable machine from page 2.2

- a)If STZQ-I machine is selected then continue to step 2
- b)If STZQ-II machine is selected then no need to continue as all standard items included in this kit.

Step 2: Confirm whether more orbital tracks are required according to the table on the left

Step 3: Confirm whether more claw connectors are required

We recommend each orbital track has its own claw connector for ease of installation.

Step 4: Confirm whether more chain is needed

$$L=(OD+0.024)*3.14+0.5$$

- Note: a)OD,means outside diameter(unit:m)
 b)The final chain length can be longer than the calculated length without detriment to the operation
 c)E.g. For pipe size 1.016m,4m or 4.5m chain both are available.In fact 4.5m chain can also be available for pipe size 1.219m.

Step 5: Confirm your order with us if you would like to