

TDG60



TDG60 Line Boring is mainly used in machining inner hole, concentric holes with space and ending pipe. Because it with very Light weight and modular design, so it can be adapted to variety of the narrow space.

Compact and modular design

Rotational drive unit and feed unit can be fixed anywhere of the boring bar to achieve processing in narrow space. Feed unit and rotational unit are only 8KG and 9.5KG, more portable, step less speed regulation range 0 to 0.5mm, easily achieve the forward and reverse exchange.

Boring bar

Adopting high-quality alloy structural steel, boring bar length has several options of 2000mm,2500mm,3000mm,3500mm. Customized length can be available.

Drive Power Unit

2 types power of electric and hydraulic, electric power unit is 2500W, torque of hydraulic power can reach to 918N.M, this machine is suit able of cutting a maximum depth of 10mm.

Superior scalability

- Optional one smaller boring bar to achieve boring diameter $\varnothing 35$ -600mm
- Two sizes of facing head to achieve facing range $\varnothing 80$ -650mm.
- Optional auto bore welder used to portable line boring.

All parts have their own unique advantages and provide guarantee for steady and accurate operation for the whole system.

E-mail: sales@dthmachines.com 

Website: www.joysungportable.com 

Tel: +86-755-33238068 Fax: +86-755-33238950 

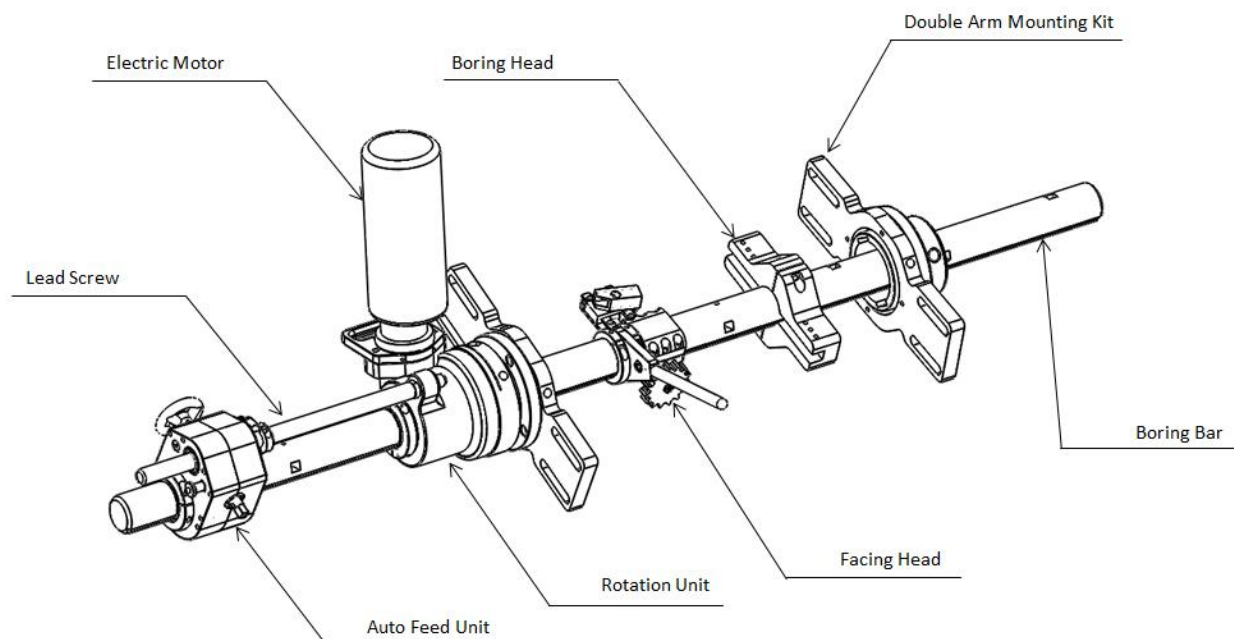
Address: Lantian industrial Park Haoxiang Road Shajing Town Shenzhen.PRC 

Technical Parameters

Bar Diameter	60mm	30mm(option)
Boring Dia	65-600mm	35-600mm(option)
Boring Stroke	400 mm,600mm or 900mm	
Feed Rate	0-0.5mm/rev	
Drive Power Unit	Electric (2500W,50/60Hz) , Hydraulic (18.5KW)	
Mounting Kit	Single, double, Adjustable, ID	
Boring Bar Length	2000/2500/3000/3500/4000/4500mm (Ø60mm)	
	1200/2000mm (Ø30mm)	
Facing Head	80-380mm,200-650mm	

On Site Test Data

Boring Diameter	Depth of Cut	Feed Rate	RPM	Drive Power Unit	Material
300mm	10mm	0.25	45	Hydraulic,25HP(18.5)	Q345
500mm	5mm	0.2	39	Hydraulic,25HP(18.5)	Q345



»» Axial Feed Unit (106011)

- Mechanical feed, feed rate:0-0.5mm/rev.
- Can be mounts anywhere on the bar.
- Weight: 8KG.



»» Lead Screw

- 400mm Feed stock (103031)
- 600mm Feed stock (103032)
- 900mm Feed stock (103033)
- Limited Lock (103036)



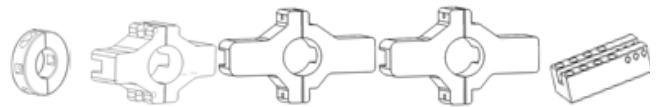
»» Rotation Unit (106022)

- Gear Reduction Ratio:6:1
- Weight: 13Kg



»» Bore Head (106040)

- Fit to $\varnothing 60$ mm bar
- 16*16mm square cutter
- Boring diameter: $\varnothing 120$ -165mm \ $\varnothing 150$ -230mm
 $\varnothing 200$ -280mm \ $\varnothing 270$ -360mm \ $\varnothing 360$ -430mm
- Extend bore head



»» Cutter Measuring Tool

- Digital calipers.
- Used to measuring cutting tool out of the length of bar.

	Code
Fit to 30mm bar	104081
Fit to 60mm bar	104082



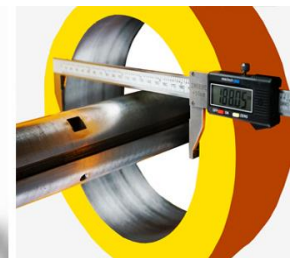
»» Bore Measuring Tool

- Digital calipers.
- Metric and Inch scale readouts

Measurement	Code
300mm	104091
600mm	104092

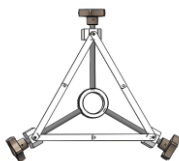


ON SITE APPLICATION



»» Rapid Centering System (106070).

- Magnet mounting, Max control range:300mm
- 2 pcs for centering boring bar
- Adjusting sleeve: 60mm(standard)
30mm(optional)



» Boring Bar

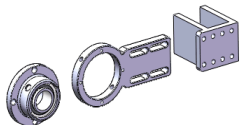
- All bars are made of 42CrMo chrome-plated steel.
- Tooling hole spaced every 200mm.

Bar Dia	Bar Length	Hole Size	Code
60	2000	16	106051
60	2500	16	106052
60	3000	12	106053
60	3500	12	106054
60	4000	12	106055
60	4500	12	106056
30	1200	12	103058
30	2000	12	103059

Special boring bar length available on request.

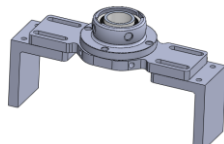
» Mounting Kit

- All mounting kit fit to Ø60mm bar.
- Six types can be selected.



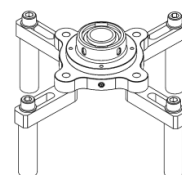
Single Arm Mounting Kit (106061)

- Mounting range:200-435mm
- 1 set—2pcs



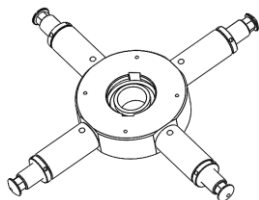
Double Arm Mounting Kit (106062)

- Mounting range:200-650mm
- 1 set—2pcs



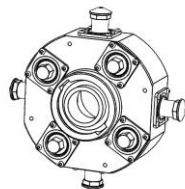
Universal Mounting Kit (106063)

- Mounting range:317-490mm
- 1 set—2pcs



ID Mounting Kit (106064)

- Mounting range:350-610mm
- 3 set jacking leg
- 1 set—1pcs



Adjustable ID Mounting Kit (106065)

- Mounting range: 300-610 mm
- 3 set jacking leg
- 1 set—1pcs



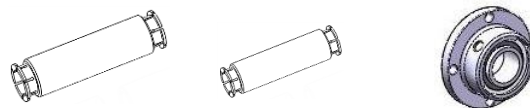
Spherical Bearing (106068)

- 1 set-1pcs

» Optional 30mm bar Accessories (1060130)

If selecting 30mm bar, please choose this complete tool kit , includes:

- Axial Feed Unit Sleeve:1 Pcs
- Rotation Unit Sleeve:1 Pcs
- Every sleeve equipped with drive key and double snap rings.
- Spherical Bearing for 30mm bar: 2 Pcs
- Only need to remove TDG60 spherical bearing and replace it with TDG30 spherical bearing.



» Drive Power Unit

- Electric Motor, 2500W ,50/60Hz, Made in Germany.

Electric ,Single Phase, 110V, bar rpm: 0-75	1030111
Electric ,Single Phase, 230V, bar rpm: 0-75	1030112

- Hydraulic drive power is 25hp(18.5KW) ,oil hose length:10m,
Equipped with remote control box

HPU, 25HP(18.5kw), 3 phase, 50/60Hz,380V	1030101
HPU, 25HP(18.5kw), 3 phase, 50/60Hz,220V	1030102
HPU, 25HP(18.5kw), 3 phase, 50/60Hz, 415V	1030103
HPU, 25HP(18.5kw), 3 phase, 50/60Hz, 475V	1030104
HPU, 25HP(18.5kw), 3 phase, 60Hz, 575V	1030105

Hydraulic Motor Assembly

Hydraulic motor 80#, bar rpm : 0-143	HM80
Hydraulic motor 100#, bar rpm : 0-98	HM100
Hydraulic motor 130#, bar rpm : 0-77	HM130
Hydraulic motor 160#, bar rpm : 0-59	HM160
Hydraulic motor 200#, bar rpm : 0-40	HM200

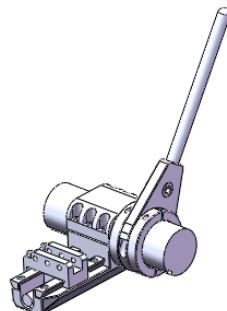
Note: Please choose a hydraulic unit, it can equipped with many hydraulic motors, to meet the output of different speeds.



Facing Head

- All facing head fit to 60mm Bar.
- 20*20mm square cutter

Facing Diameter	Code
80-380mm	106081
200-650mm	106082



Hydraulic Power Unit includes:

1. Hydraulic unit, Qty:1
2. Oil hose, 10 m length, Qty:2
3. Quick disconnect couplings, Qty:4
4. Dust Cap, Qty:8

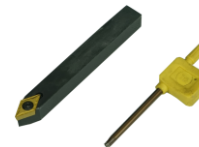


» Tool Holder

12mm inserted tool holder,	1042126
16mm inserted tool holder,Lh,90°	1042123
	1042122
Carbide insert for 12mm tool holder, 11T304-MM	1042124
Carbide Insert for 16mm tool holder, 160404L-S	1042125



11T304-MM



160404L-S

» Tool Pack (1060140)

Magnetic base dial indicator	1 set
Special wrench	1 set
12mm inserted tool holder, Lh,90°	1 set
16mm inserted tool holder,Lh,90°	1 set
Carbide Insert, 11T304-MM	1 box(10 pcs)
Carbide Insert, 160404L-S	1 box(10 pcs)
Operating & manual	1 set

» Auto Bore Welder

Model	BW350	BW360
ID Weld Range	40-450mm	40-600mm
Weld Stroke	208mm	400mm
O.D. Weld Range	NO	20-750mm
Face Welding Range	NO	20-610mm



JOYSUNG
Portable Machinery tools solutions

Recommended configuration

The following is a recommended configuration:

Code	Description	Qty
106011	Axis feed unit	1
106022	Rotation unit	1
103031	Lead Screw, stroke:400mm, with limited Lock	1
106040	Boring Heads	1
106051	Boring Bar: 60*2000mm	1
106070	Rapid Centering System(1 set-2pcs)	1
104082	Cutter Measuring Tool (fit to 60mm)	1
104091	Bore Measuring Tool(300mm)	1
106061	Single Arm Mounting Kit((1 set-2pcs)	1
1030112	Electric motor, single phase, 230V,2500W	1
1060140	Tool Pack	1
1060150	Shipping Box	2

Optional Accessories

Code	Description	Qty
106081	Facing Head,80-380mm, weight: 8kg	
106082	Facing Head,200-650mm, weight: 18kg	
1042124	Carbide Insert for 12mm tool holder, 11T304-MM	
1042125	Carbide Insert for 16mm tool holder, 160404L-S	
104161	BW350 Auto Bore Welder, weight: 38kg	
104162	BW360 Auto Bore Welder, weight: 46kg	
104092	Bore Measuring Tool,10-600mm	

Optional configuration

Please select the accessories you need from the list below:

1. Axis feed unit、 rotation unit and boring head are necessary as a basic unit.

106011	Axial feed unit	
106022	Rotation unit, Reduction Ratio	
106040	Boring Heads	
106070	Rapid Centering System(for 60mm bar)	
104082	Cutter Measuring Tool (fit to 60mm)	
1060140	Tool Pack	

2. Main parts, includes: Lead Screw/ boring bar/mounting kit/drive power unit.

2.1 Lead Screw

103031	Stroke: 400mm, with limited Lock	
103032	Stroke: 600mm, with limited Lock	
103033	Stroke: 900mm, with limited Lock	

2.2 Boring Bar

106051	Boring Bar,60*2000mm	
106052	Boring Bar,60*2500mm	
106053	Boring Bar,60*3000mm	
106054	Boring Bar,60*3500mm	
106055	Boring Bar,60*4000mm	
106056	Boring Bar,60*4500mm	

Note: Ø30mm boring bar needs to be used with sleeve set. If Ø30mm boring bar is selected, optional 30mm bar accessories need to be added.

103058	Boring Bar,30*1200mm	
103059	Boring Bar,30*2000mm	
1060130	Optional 30mm bar Accessories	

2.3 Mounting Kit

106061	Single Arm Mounting Kit (1 set-2 pcs)	
106062	Double Arm Mounting Kit (1 set-2 pcs)	
106063	Universal Mounting Kit (1 set – 2 pcs)	
106064	ID Mounting Kit (1 set – 1 pcs)	
106065	Adjustable ID Mounting Kit(1 set – 1 pcs)	
106068	Spherical Bearing (for 60mm bar)	

2.4 Facing Head

106081	Facing diameter: 80-380mm	
106082	Facing diameter: 200-650mm	

2.5 Electric Drive Power Unit

1030111	Single phase, 110V,50/60Hz, 2500W,	
1030112	Single phase, 230V, 50/60Hz, 2500W	

2.6 Hydraulic Drive Power Unit

Hydraulic

1030101	*HPU, 25HP(18.5kw), 3 phase, 380V	
1030102	HPU, 25HP(18.5kw), 3 phase, 220V	
1030103	HPU, 25HP(18.5kw), 3 phase, 415V	
1030104	HPU, 25HP(18.5kw), 3 phase, 475V	
1030105	HPU, 25HP(18.5kw), 3 phase, 575V	

Hydraulic motor assembly

HM80	Hydraulic motor 80#, bar rpm: 0-143	
HM100	*Hydraulic motor 100#, bar rpm: 0-98	
HM130	Hydraulic motor 130#, bar rpm: 0-77	
HM160	Hydraulic motor 160#, bar rpm: 0-59	
HM200	Hydraulic motor 200#, bar rpm: 0-40	

3. Optional Accessories

3.1 Bore welder

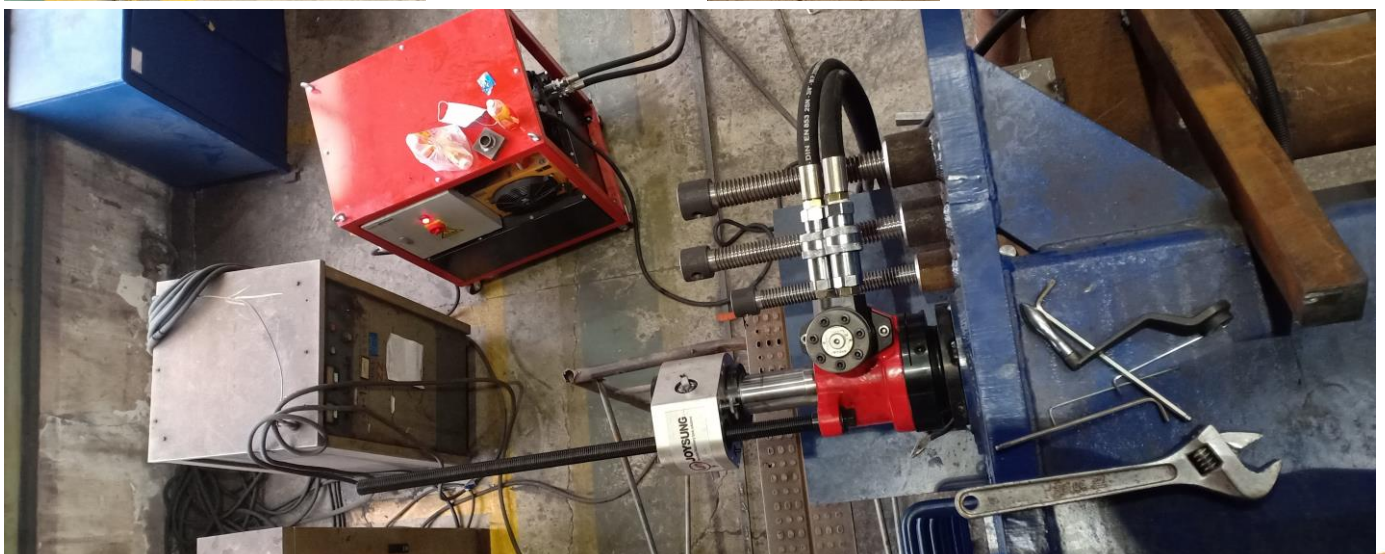
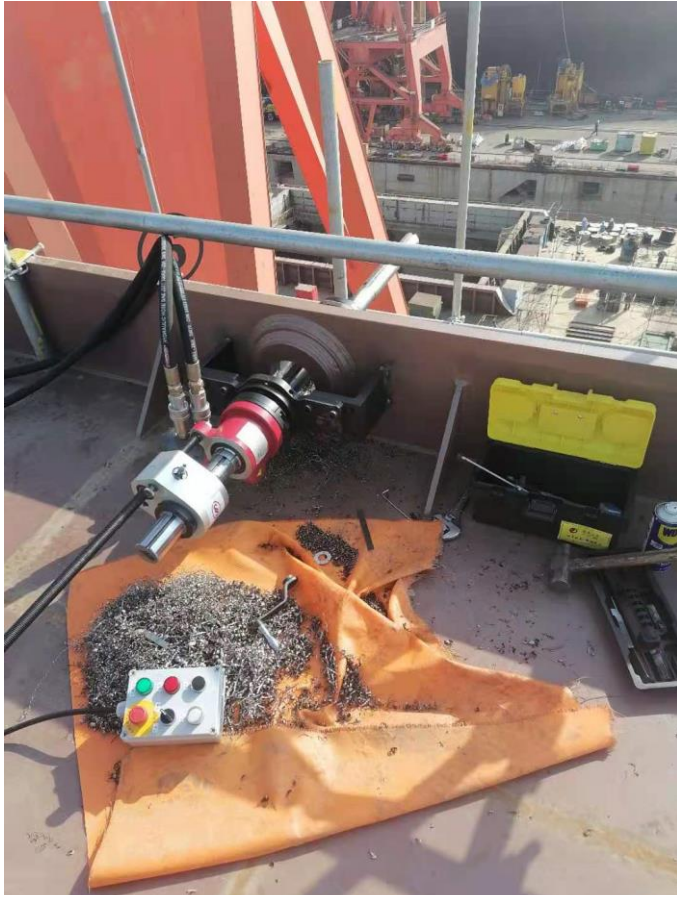
104161	BW350 Auto Bore Welder, for ID welding	
104162	BW360 Auto Bore Welder, for ID、OD、face welding	

3.2 Measuring Tool

104081	Cutter Measuring Tool, Fit to 30mm bar	
104082	Cutter Measuring Tool, Fit to 60mm bar	
104091	Bore Measuring Tool, Measurement:0-300mm	
104092	Bore Measuring Tool, Measurement:0-600mm	

3.3 Tool Holder

1042126	12mm inserted tool holder	
1042123	16mm inserted tool holder,Lh,90°	
1042124	Carbide inserts for 12mm tool holder, 11T304-MM	
1042125	Carbide Insert for 16mm tool holder, 160404L-S	



Mounting Base(一)



JOYSUNG

Portable Machinery tools solutions

Global Department

JOYSUNG MACHINES CO.,LTD

Telephone: (86) 755 33238068

Fax: (86) 755 33238950

Email:sales@dthmachines.com

joysung@vip.163.com

HongKong Branch:

DTHMACHINES (HongKong) CO.,LTD

Unit 13, 23rd Floor, Cable TV Tower, 9 Hoi Shing
Road, Tsuen Wan, Hong Kong

Email: sales@dthmachines.com