

# TDG50IMP

**TDG50IMP Line Boring** has compact structure and high efficient field processing capacity and is highly recommended by JOYSUNG in 2017.

## Compact and modular design

It could be easily used in field boring on large scale steel structure , especially for narrow space processing. Fixed can be horizontal or vertical position, Rotational drive unit and feed unit can be fixed anywhere of the boring bar. Feed unit and rotational unit are only 7KG and 5KG each, more portable, step less speed regulation range 0 to 0.5mm, easily achieve the forward and reverse exchange.

## Boring bar

High quality alloy structural steel to ensure cutting accuracy due to its high strength and rigidity. Bar length has 3 options:1828mm, 2438mm,3500mm . Customized length can be available...

## Drive Power Unit

Electric motor, made in Germany, single phase, 1800W, 50-60HZ. It is able of cutting a maximum depth of 6mm .

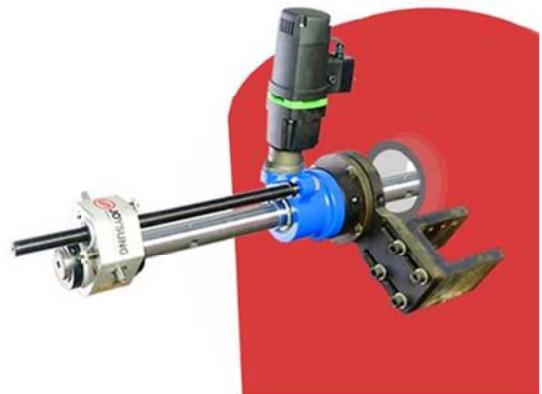
## Superior scalability

- Optional one smaller boring bar to achieve boring  $\varnothing$ 35-400mm.
- Two sizes of facing head to achieve facing processing range  $\varnothing$ 80-450mm.
- Optional auto bore welder used with portable line boring.

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

### Technical Data

Boring Bar	50mm	30mm(option)
Boring Dia	55-400mm	35-400mm(option)
Boring Stock	300 mm、 600mm	
Feed Rate	0-0.5mm/rev	
Drive Power Unit	Single Phase,110V/230V, 1800W	
Facing Head	80-380mm,120-450mm	



### On-Site Test Data

Boring Diameter	Depth of Cut	Feed Rate	RPM
$\varnothing$ 200	5mm	0.25	45
$\varnothing$ 400	1mm	0.2	80

- Material:Q345. Drive Power Unit:1250W Electric Motor.

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# Select Configuration

## »» Axial Feed Unit (103011)

- Mechanical feed, feed rate:0-0.5mm/rev.
- Can be mounts anywhere on the bar.
- Weight: 5KG.



## »» Lead Screw

- 300mm Feed stock (103031 )
- 600mm Feed stock(103032)
- Limited Lock(103040)



## »» Rotation Unit

- Gear Reduction Ratio: 5:1( 103020)
- Weight: 7Kg.



## »» Boring Bar

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

Bar Dia	Bar Length	Hole Size	Code
50	1828	16	103061
50	2500	16	103062
50	3000	12	103063
50	3500	12	103064
30	1200	12	104061
30	2000	12	104062

*Special boring bar length available on request.*

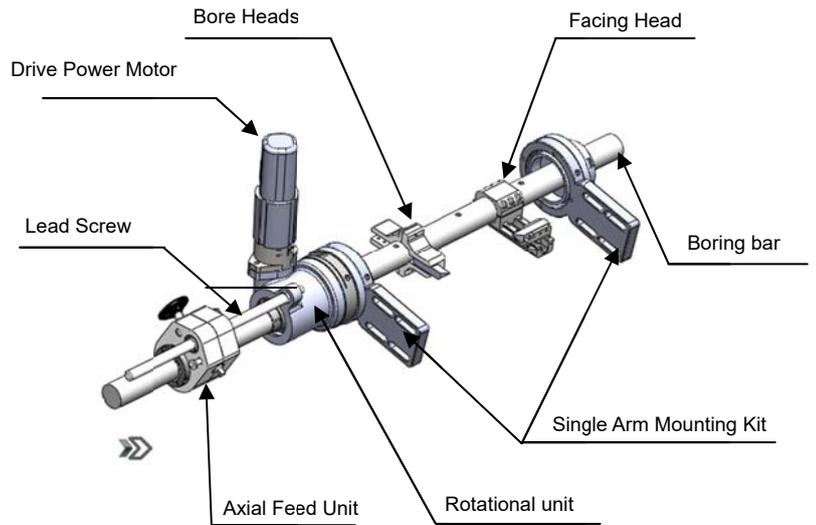
## »» Sleeve Set

- Fit to Ø30mm bar
- Axial Feed Unit Sleeve:1 Pcs(103151)
- Rotation Unit Sleeve:1 Pcs(103152)
- Bearing sleeves: 2 Pcs(103153)

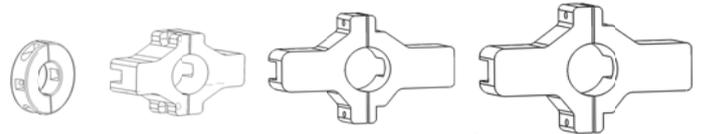


## »» Rapid Centering System (103070)

- Magnet mounting, Max control range:400mm
- 2 pcs for centering boring bar.
- Adjusting sleeve: 50mm/30mm.



## »» Bore Heads(103060)



- Fit to Ø50mm bar
- 16\*16mm square cutter
- Boring diameter: Ø120-165mm \ Ø150-230mm  
Ø200-280mm \ Ø250-400mm

## »» Single Arm Mounting Kit

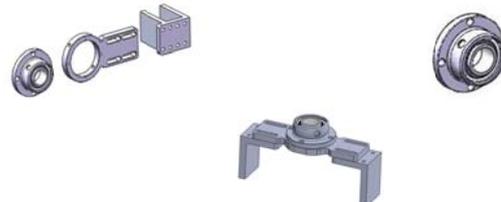
Include 1 spherical bearing, 1 support plane, 1 support base, 12 fixed bolts(103101)

## »» Double Arm Mounting Kit

Include 1 spherical bearing, 1 support plane, 2 support base, 12 fixed bolts(103102)

## »» Spherical Bearing

Include 1 bearing housing, 1 bearing(103110)



### »» Drive Power Unit

- Electric Motor, Made in Germany, Brand: Eibenstock.
- Single phase, 50/60Hz



110V, 1800W,	104131
230V, 1800W	104132

### »» Cutter Measuring Tool

- Digital calipers
- Used to measuring cutting toolout the Lengthof boring bar.

	Code
Fit to 50mm bar	103081
Fit to 30mm bar	104081



### »» Bore Measuring Tool

- Digital calipers
- Metric andInch scale readouts

Measurement	Code
300mm	104091
500mm	104092



### »» Tool Kit



HSS tool bit ,12*12*38mm	1041401
HSS tool bit ,16*16*50mm	1041402
HSS tool bit ,12*12*200mm	1041404
HSS tool bit ,16*16*200mm	1041405
16mm inserted tool holder,lh,90°	1041407
Carbide tips	104140

### »» Facing Head

- All facing head fit to 50mm Bar.
- 20\*20mm square cutter

Facing Diameter	Code
80-380mm	103121
120-450mm	103122



Inserted tool holder

### »» 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



# Expanding Application

## Dear friends

Many thanks for your attention and we are honored to introduce you when selecting our line boring machine, we look forward to a great cooperation with you!

1. Select Base unit(Axis feed unit /Rotation unit)
2. Select Boring Bar
3. Select Lead screw
4. Select boring head
5. Select Mounting option
6. Select Power unit
7. Select Necessary tools and accessories

*Please fill in the form based on your request indeed and return to us .Even Its's better for us to offer you .Please feel free to contact us If you have any special needs.*

## Recommended Configuration

Code	Description	Qty
103011	Axial feed unit	
103022	Rotation unit, Reduction Ratio: 5:1	
103031	Lead Screw,300mm	
103040	Limit Block	
103060	Boring Heads	
102062	Boring Bar,50*1828mm	
103071	Rapid Centering System	
103081	Cutter Measuring Tool (fit to 50mm)	
104091	Bore Measuring Tool(300mm)	
103101	Single Arm Mounting Kit	
103132	Electric motor,230V,1800W	
1041407	16mm inserted tool holder,lh,90°	
103170	Tool Pack	
103180	Shipping Box	

Code	Description	Qty
103011	Axial feed unit	
103022	Rotation unit, Reduction Ratio: 5:1	
103031	Lead Screw,300mm	
103032	Lead Screw,600mm	
103060	Boring Heads	
104061	Boring Bar,30*1200mm	
104062	Boring Bar,30*2000mm	
103061	Boring Bar,50*1828mm	
103062	Boring Bar,50*2500mm	
103063	Boring Bar,50*3000mm	
103064	Boring Bar,50*3500mm	
103070	Rapid Centering System(fit to 30/50mm)	
103071	Rapid Centering System(fit to 50mm)	
104081	Cutter Measuring Tool (fit to 30mm)	
103081	Cutter Measuring Tool (fit to 50mm)	
104091	Bore Measuring Tool(300mm)	
104092	Bore Measuring Tool(500mm)	
103101	Single Arm Mounting Kit	
103102	Double Arm Mounting Kit	
103100	Spherical Bearing	
103121	Facing head:80-380mm	
103122	Facing head:120-450mm	
104131	Electric motor,110V,1800W	
104132	Electric motor,230V,1800W	
1041401	12*12*38mm HSS tool bit	
1041402	16*16*50mm HSS tool bit	
1041404	12*12*200mm HSS tool bit	
1041405	16*16*200mm HSS tool bit	
1041407	16mm inserted tool holder,lh,90°	
104140	Carbide tips	
104161	Auto Bore Welder, BW350	
104162	Auto Bore Welder, BW360	

