

## Idler Roller Pipe Cutting & Bevelling Machine



*This is an automatic system for fixed-length cutting of steel pipes for manufacturing idler rollers. The cutting and bevelling of pipe is done simultaneously. The cutting tool head is fixed while the tool is fed by hydraulic cylinder and pipe rotates at high rpm, which delivers high cut quality with precision.*



### **Idler Roller Pipe Cutting & Bevelling Machine + Pipe Loading System (Option)**

*This system contains an automatic fixed length cutting and bevelling of steel pipes (same as above) along with a pipe loading system to minimize the loading time of pipes, which further improves the overall productivity. The pipe loading system is optional, which can be purchased together with cutting and bevelling system or may be added later.*

## ■ Salient Features

- Automated System – the pipe clamping, locating and tool feeding are all driven by hydraulic system, high machining precision (cut quality) is achieved by steady tool feeding.
- Easy to use – simple and user-friendly controls, operator can be trained and familiarized with the system easily in no time.
- High Productivity – much faster than the manual / band saw cutting e.g. for cutting a 150 mm diameter steel pipe the KAIYUAN system takes about 20 sec only, which is app. 8 ~ 10 times faster than the band saw cutting along with much higher cutting precision than band saw.
- Reliable, Heavy Duty and Low Maintenance Cost – these machines are powerful work horses, which once commissioned run continuously without requiring any major maintenance. As compared to CNC operated systems these machines have negligible maintenance cost.
- Options Available – the system is available in two variants for cutting up to 159 / 219 mm diameter steel pipes and can also be equipped with an additional pipe loading system to reduce the pipe loading time, which further enhances the overall productivity.

## ■ Main Specifications

S. No.	Parameter	QJQG-159-2.2D	QJQG-219-2.6D
<b>Machine Specifications</b>			
1	Diameter of steel pipe for cutting	76 – 159 mm	76 – 219 mm
2	Length of steel pipe for cutting	200 – 2200 mm	200 – 2600 mm
3	Feeding distance	12000 mm (max)	12000 mm (max)
4	Spindle center height of the machine tool	800 mm	800 mm
5	Hydraulic system pressure	1.5 – 4 mPa	1.5 – 4 mPa
6	Spindle speed	150, 220 rpm	100, 160, 250 rpm
7	Tool feeding speed	Adjustable (stepless)	Adjustable (stepless)
8	Spindle drive motor	15 kW, 960 rpm	22 kW, 960 rpm
9	Hydraulic system motor	5.5 kW	5.5 kW
10	Motor of the feeding mechanism	2.2 kW	2.2 kW
11	Dimensions (L x W x H)	19150 x 1550 x 1130 mm	20310 x 2420 x 1250 mm
12	Weight	6500 Kgs	8400 Kgs
<b>Manufacturing Precision / Tolerance</b>			
1	Repeated precision in cutting length	≤0.5 mm	≤0.5 mm
2	Parallelity at both ends of cut-pipe	≤0.4 mm	≤0.4 mm
3	Roughness of the bevelled surface	6.3 ~ 3.2 μm	6.3 ~ 3.2 μm

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