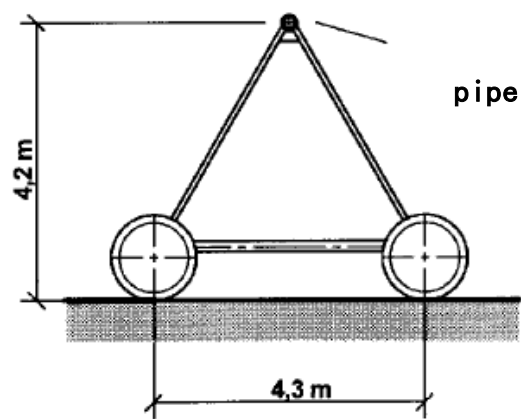
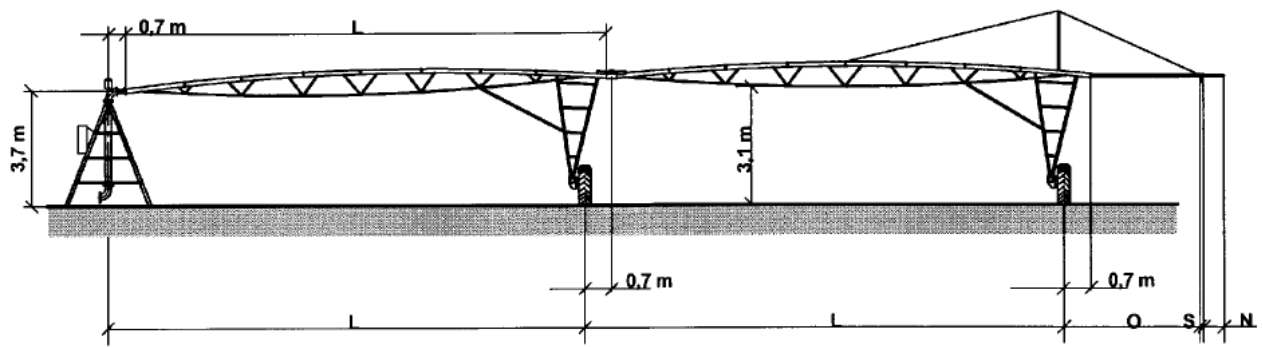

Technical advantages of center pivot irrigation system

General

1. Technical performance: in line with the client's requirements item by item, without any deviation.
2. Administrative standards: the production and manufacturing are in line with the ISO international standards.
3. Inspection: the whole process of producing all products is supervised by Roehren-und Pumpenwek BAUER Gesellschaft M.B.H. The products are inspected in line with European standards and international common industrial standards. Main parts are imported with original packaging from Austria, as good as the products made by BAUER Gesellschaft.
4. Training on field installation: our company has rich experiences in relevance with installation and commissioning. We send experienced engineers to guide the installation and commissioning of the equipment until the end user signs with satisfaction on the inspection report. Our company can provide sufficient technical trainings for users.
5. After-sales services: our company provides thorough training in the process of installation and commissioning and sets up spare parts store based on the size of the project to the benefits and for the convenience of users.
6. Quality guarantees period and service life: the guarantee period is 2 years and the service life is 15 years.
7. Ability of production: our company, as a professional manufacturer of irrigation equipment, can manufacture 800 sets center pivot irrigation systems each year. We completely are capable of handling this project. We arrange the supply plan according to the will of users, including the production, delivery, installation and commissioning.


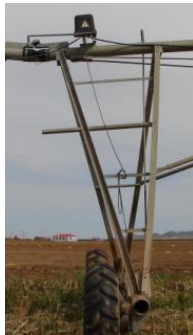
1. Technical data

- 1) Dimension of center pivot irrigation system



2) Main data of center pivots

Name	Position	Data
Main data	Outer diameter of main pipe	168mm,203mm,219mm, the raw material is chosen standard steel, Q235B
	Thickness of the main pipe	3.0mm, the thinnest thickness of pipe is no less than 2.9mm
	Surface treatment of main parts	Hot-galvanized steel, anti-corrosion for 10 years
	Thickness of the main pipe flange	10mm
	Flange bolts	8 bolts (carton steel of 8.8 class, cold galvanized)

	Connection among spans	Flexible connection; sealed with rubber; (main material: EPDM , tailored, service life 7 years, as shown in the following: 
	Height	3.1m, high clearance than other suppliers' products
	Tire	14.9-24 : American standard, outer dia. 1.26 meters, width 0.38 meters, supplied by chosen supplier especially for Austria BAUER.
	Grade ability	No more than 12 degrees
	Motor and gear box	Imported UMC or from chosen supplier especially for Austria BAUER. Cover of aluminum, double seal of outer shaft, standard rotation speed of motor:43r/min (460V) ,35r/min (380V)
	Insulation	≥F
	Driving wheel	V design as follows 
Sprinkling system	Uniform irrigation	Uniform irrigation≥88%
	Distance between sprinklers	2.9 meters, of equal distance
	Model of sprinkler	Imported, low-pressure, wind-proof, with pressure regulator, and sprayer NELSON D3000/R3000
	Pressure regulator	Equip one pressure regulator for each sprayer
	Height of sprayer	≥1.5m

	Balance weight	≥1.2kg
	End gun and booster pump	Equipped

2 Advantages

Item	Advantages
Center tower	Sturdy structure of four legs on cement foundation with broad support; pivot tower angle 108*108; C-profile for increased structural strength; broad support plates with large support surface area; entire pivot tower is hot dip galvanized; double lip seal preventing from leakage.
Driving tower	Drive tower bracing angle 100*75 for high torsion resistance; large-dimension wheel base drive tower heights for optimum adjustment to different crops; wheel base brackets with bracing; highly stable stand thanks to extremely wide wheel base; permissible slope: up to 12%.
Motor	High-torque motor with CCC certification; working voltage 50HZ and 380 V. The teeth of gear box are designed in spiral with safety factor of 1.3. With overheat protection and enclosed moisture-proof. Rotation rate: 40:1. The power of motor depends on type of soil and quantity of spans.
Span structure	Composed of steel pipes (material: Q235B), angle steel (material: Q235B) and trusses (material: 20/Q345B). Different diameter of main pipes for all kinds of water flow demands. Optimized irrigation with low costs. The uniform length of main pipe per piece is 5.85 meters, made by standard tooling. The universality of main pipes is convenient for transportation and installation. The trusses of 20 mm ensure tensile strength and the safety of whole system.
Main pipe	Of uniform length, can be used on each span. To ensure the water amount of large-model center pivot, and to decrease the loss of pressure, we also recommend the user to use combined system of

	168mm and 203mm main pipes.
Tower box	Emergency switch under each tower box. The user can handle the one near it in emergency.
Connection of trusses	Flexible
Galvanization	Main steel parts are hot-galvanized with thickness over 70um, strictly follow the galvanizing techniques to avoid oxidization and rusting.
Sector control	Normal and reverse running on sector irrigation field.
End gun	Imported sprinkler KOMET with original packaging. Three models available. Increase the irrigation area. Optional booster pump.
End field stop	For end gun and booster pump, allows settings up to 4 times of on and off, avoid irrigating the house and other facilities.
Connection of spans	Flexible
Material of steel parts	High-strength alloy steel, trusses of medium-carbon alloy steels
Speedometer	Electronic control mode instead of traditional mechanical conditioning, more precise speed control.
Cable	Tailored and high temperature protection and ultraviolet protection.
Control panel	Low pressure and fault running, the controller shut down the center pivot and the pump.
	Simultaneously start and shut-down of center pivot with pump.
	Regulate the running speed of center pivot.
	The center pivot can running reversely or stops on fixed points.
	All electric elements are imported from SCHNEIDER of good quality.
	Shut down when the voltage vibrates.
Service life	Hot-dip galvanizing whole system, with good appearance and

	<p>thickness no less than 2.8 um. Galvanizing thickness of angle no less than 3.4 um. The steel thickness over 6.4mm is galvanized over 3.9 um.</p> <p>Stainless steel of main standard parts.</p> <p>Anti-corrosion over 15 years.</p>
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