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JEPAE

Design social infrastructure

- · Steel pipe pile method
- \cdot Welding automationt
- \cdot Factory automation



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About Us

Greetings . History **Certification Status**



JEPAE

GREETINGS

Jepae is a industry specialized company with outstanding technology and production capacity. We are engaged in various industries ranging from architecture, machinery, and automation.

Jepae follows the social and economic paradigm centered on eco-friendliness, promotes the commercialization of eco-friendly civil engineering methods, and places value in technology development in the wireless business and safety and health fields based on the future industry group. We put efforts to develop new technologies and create values centered on the environment.

Jepae considers the highest level of safety and eco-friendliness, and intends to establish a foundation for a more productive and sustainable industrial group and promote innovation as the best professional industrial company.

Executives and employees of Jepae

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History

Certification Status

G-CERTI Certificate

문사: 전달날드 발동시 미월구 출운유 91, 11호권 4월 26호 (두덕용, 변자달달관) 공량: 전양날드 전체시 전체한 2.5.8, 348-7

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ISO9001(2021)

수기술기업 인증서

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주식회사 계패

ISO 9001:2015 물질경영시스템

G-CERT/

• 2	2021	12	Acquired root company confirmation
		09	Acquired ISO certification (9001, 14001, 45001)
		07	Registered as a partner of Crayon (Cryogenic Piping) and established a research department
		06	Registered as a partner of MANAKH in Saudi Arabia
		03	Registered as a partner of Able ENC (aluminum ship)
			Signed an industry-academic cooperation agreement with Inje University
			Signed an industry-academic cooperation agreement with Changwon Moonsung University
			Achieved the first export of \$20,000 – Overseas (ALIVETEC, Japan)
		02	Registered with Smart Manufacturing Innovation Promotion Group
			Completed certification and registration of Venture Business
		01	Signed an official overseas partnership with Saudi Arabia JK Global
			The Korea Trade-Investment Promotion Agency (KOTRA)

• 2020

- 10 Registered as a partner of UAE GP Cloud
- 04 Registered as a partner of ALIVETEC in Japan
- 02 Established Jepae corporation









Steel Pipe Pile Method

Field of Application Comparative Analysis of Construction Methods **Construction Procedure** Foundation subsidence restoration work Steel Pipe Pile Heavy Equipment Accessory



Field of Application

IWD Method

The importance and compulsory design of earthquake-resistant design due to earthquake damage is continuously being promoted, and as a vibration-resistance method, the most advanced Japanese-style construction method has been introduced and localized to prevent damage from earthquakes in advance.

Main Features

- · High workability in narrow areas
- · Reduction of noise and vibration
- · Minimization of polluted water generation

Benefit

· Material reuse

- · Minimize complaints
- · Reduced labor costs
- · Minimization of process
- · Eco-friendly construction

Introduction to the field of application

We support the supply and construction of raw materials in various fields such as general construction and special purpose construction / plants, power generation facilities / energy transport facilities, etc. The field of construction can be expanded in various ways such as new construction / reconstruction / maintenance, and the scope of application can be broadly applied to the lower foundation construction of facilities other than buildings if necessary.





Plant Facilities

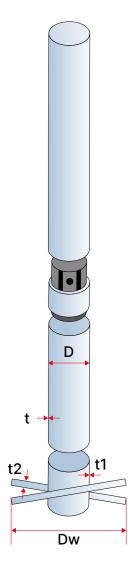




Transmission Tower

Railroad

· No drilling or curing required · Construction possible for 2 people per set · High workability of soft ground



Pipeline





Residential Construction



Bridge

Comparative Analysis of Construction Methods

As a new field of revolving penetration type steel pipe pile construction, it is a new concept construction technique that can be used for the foundation work of a wide range of buildings as it is possible to construct high-strength, medium-to-large-diameter steel pipes, unlike the current construction method that allows for small-diameter construction.be broadly applied to the lower foundation construction of facilities other than buildings if necessary.

Public method name	IWD Method	P.H.C Method	Helical Method
Summary	 Attaching wings and protrusions to high-strength, medium-to-large- diameter steel pipe and drilling at the same time. Maximize bearing capacity with compression and tension forces with wings and pipes. 	• Ground excavation with crane auger screw and drive device	 Attach multiple blades to small diameter steel pipe Securing bearing capacity through ground friction and tip support
Ground application	Clay, Sand, Weathering Table	Clay, weathering table	Clay, Sand, Weathering Table
Advantages	 O No drilling and grouting required due to smart heavy machine Increases frictional force due to rotational press-fitting, and secures strong support for horizontal force Large construction possible with medium and large piles There is no residual soil, and construction is possible even in the rain Eco-friendly with low noise and low vibration Easy to make into big data due to mobile implementation of construction data 	 ① Drilling to the design depth ③ Reinforcement of pile tip support and friction with cement ③ Prevention of damage to the tip of the pile and the head 	 O Can be constructed only by combining specialized equipment and backhoe Ease of construction and shortening of construction period Eco-friendly construction method that is noise-free and vibration-free Can be installed at any angle
Disadvantage		 O Potential collapse of the pore wall when the sand gravel layer is drilled O Hard weathering belts are difficult to drill O Perforation causes peripheral relaxation O Vibration and noise 	 ② Because it is a small diameter, the bearing capacity of one piece is weak ③ It is not possible to construct the ground with a deep support layer

Division	IWD	P.H.C	Micro	Helical
File specifications	267MM×8T×600φ×6M	500MM/15M	508MM/15M	159MM×8T×500φ×4Ν
Design load	120~200 ton	100~150 ton	50~150 ton	110~130 ton
Construction period	50~70%	100%	100%	50~70%
Total	80%	75%	100%	90%
construction cost	Small and medium-sized equipment	Large equipment	Large equipment	Small equipment
Strength	Securing seismic resistance, horizontal force, and bearing capacity	Weak in earthquake resistance and horizontal force		
Whether material loss	None	Dummy file occurrence	None	None
Required work space	1.2	4.0~	4.0~	1
Equipment	Rotary hydraulic heavy machine	Perforator+Hydraulic Driving+Crane+Mixer	Perforator+Hydraulic Driving+Crane+Mixer	Backhoe/Hydraulic Motor+Mixer
1 day construction	150~200M	200~300M	100~200M	200~300M
Depth ability	35M	30M	30M	20M
Process	Penetration \rightarrow Connection \rightarrow Head cleaning	Drilling \rightarrow Casing \rightarrow Grouting \rightarrow Head cleaning	Drilling \rightarrow Casing \rightarrow Grouting \rightarrow Head cleaning	Penetration → Connection → Head cleaning
By-product/ waste	None	Occur	Occur Occur	
Vibration and noise	lowness	Somewhat high	Somewhat high	General
Surrounding ground influence	None	Occur	Occur	None

Construction Procedure

Construction plan preparation –

Consultation with the contractor (quality control, process management) according to the design plan Flat pile arrangement Foundation type pile core, number of cores

Material supply –

According to the design drawing (steel pipe part) Steel pipe material, length, thickness, outer diameter

Field input

Depends on construction (steel pipe part) Steel pipe material, length, thickness, outer diameter

Medium-term investment

According to the construction design, it must be a medium term suitable for the length and outer diameter

Pile construction

According to the construction design, check the construction order and management figures

Construction result measurement –

Checking the depth of the tip whether the depth of the tip has reached the support layer

Report writing

Construction record Attached photo Record of actual site after construction

Foundation subsidence restoration work

It is a new method to restore the foundation of a house or factory that has been tilted to its original state by using the revolving pipe method, and since vibration and noise are reduced by more than 70% compared to the existing restoration construction, follow-up management for construction (movement of residents and compensation for damage) You don't need it.

High Reliability

There is no risk of re-sinking because the foundation is raised and fixed directly with brackets using the reaction force of the pile.

Economical Construction

It is economical because piles of the required length are manufactured in a dedicated manufacturing plant in the required quantity according to the ground investigation. Since most of the work is carried out on the ground, the work proceeds safely and quickly, and the construction period is shortened, so it can be constructed at a low construction cost.

Vibration-free, Noise-free

Since it is a vibration-free and noise-free construction method, it can be installed while living without harming neighbors. It also has no effect on the surrounding ground.







Steel Pipe Pile

Steel pipe pile shape and material

- · Applicable pipe diameter: D101.6 ~ D457.2mm
- Tip blade di<mark>ame</mark>ter: D200 ~ D1,150mm
- · Steel pipe material: SKT490, HU590 (Steel)



Steel pipe pile specifications

(mm)	(mm)	(m2)	5	10	15	20	25	30	35	40	45	50	55	60
	200	0.023	3	6	10	13	16	20	23	26	30	33	36	40
101.6	250	0.041	5	11	17	23	29	35	41	46	52	58	64	70
	300	0.063	8	17	26	35	44	53	62	71	80	89	98	107
	250	0.039	5	11	16	22	27	33	38	44	50	55	61	66
114.3	300	0.060	8	17	25	34	43	51	60	69	77	86	95	130
	350	0.086	12	24	36	49	61	73	86	98	110	123	135	147
	300	0.055	7	15	23	31	39	47	55	63	71	79	87	95
139.8	350	0.081	11	23	34	46	57	69	81	92	104	115	127	139
	400	0.110	15	31	47	63	73	94	110	126	142	158	173	189
	350	0.075	10	21	32	42	53	64	75	85	96	107	117	128
165.0	400	0.104	14	29	44	59	74	89	104	119	134	149	164	179
165.2	450	0.138	19	39	59	78	98	118	138	157	177	197	216	236
	500	0.175	25	50	75	100	125	150	175	200	225	250	275	301

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Heavy Equipment

- ^① When constructing on a narrow and soft ground, it is often difficult to bring in and install a machine for foundation construction, so a small size and high-performance machine with mobility is required.
- ③ The medium machine using the steel pipe rotation press-fit method is compact in size and is easy to construct on narrow and soft ground.
- ③ Although small in size, it realizes fast and efficient ground improvement with excellent maneuverability and maneuverability.
- (a) In addition, it is eco-friendly as it is possible to construct comfortably even in the area adjacent to a house due to low noise and low vibration.

Product LINE-UP

MSJ003-S	MSJ006-S	MSJ012-S	MSJ015-S	MSJ025-S
4.5~8.0 kN.m	6~40 kN.m	20~110 kN.m	15~139 kN.m	30~300 kN.m

Product Specification

Division	Unit	15-5SP				
	Nominal dimensions					
Overall width(Max in tr	ansportation)	mm	2,490			
Crawler overall	width	mm	2,590			
Crawler center to cer	ter distance	mm	1,990			
Crawler shoe	width	mm	600			
Crawler overall	length	mm	3,500			
Tumblers center to ce	nter distance	mm	3,035			
Ground cleara	ance	mm	410			
Rear end rac	lius	mm	2,362			
Overall length(Trans	mm	8,904				
Overall height(Trans	mm	2,788				
	nment					
Auger mode	Low	kN-m	15-46			
Rotation torque	High	kN-m	46~139			
	Low	m/min	5			
Rotation torque	High	m/min	31			
	Low	kN-m	68.6			
Driving (Push down)/Extracting speed	Low	m/min	0.5			
Elevating speed	Elevating speed High		9			
Mast						
Standard len	gth					
	Forward	0	3			
Range of movement	Backward	0	90			
(with respect to vertical axis)	Leftward	0	3			
	Rightward	0	3			
Auger elevating	mm	7,088				
	Winch					
Maximum liftin	g load	kN	9.8			
Hoisting/Lowerin	g speed	m/min	20			
Wire rope			IWRC6×Fi(29) 12mm×30m			

Product Specification

Division	Unit	15-5SP					
Diesel engine							
Maker		CUMMINS					
Model		QSB4.5 Tier IV					
Туре	CARB Tier 4(f),	EU Stage IV, U.S. EPA Tier 4(f)					
Rated output	kW/rpm	122/2.500					
Maximum torque	kW/rpm	125/2,300					
Fuel tank capacity	Liters	250					
	Hydraullc System						
Main Pump							
Туре	Two variable displacement						
Max. discharge flow	pump+2gear pump	2×220L/min, 2×20L/min					
Swing Motor							
Туре		Axial-Piston Pump					
Brake							
	swing control lever is in neutral position						
Swing speed	min	24					
	Travel System						
Motor Type		2×Axial Piston, Two-Step Motor					
Brakes		Hydraulic Disc Brake					
Travel Shoes		46 each Side					
Travel Speed	km/hr	0.7/3.0					
Drawbar Pulling Force	kN	229					
Gradeability	%	30					
Ground Clearance	mm	350					
Mass							
Total working mass	ton	17.5					
Transporting mass (excluding drive rod and pile)	ton	14					
Average ground pressure(total working mass)	kg	0.37					

Accessory

Welding Machine



- \cdot Complete solution for wire feeding and tube sheet welding, titanium alloy tubing
- · Dual gas protection to achieve perfect welding results
- · Torch and water cooling cooling system to ensure longer operating time and effectively prevent inner tube oxidation

Pipe Connection Product





· Product Name: SAM (Moveable Orbital Welding Machine)

- \cdot Use: For welding steel pipe for construction (vertical welding)
- · Fastening type: RAIL
- · Driving method: Rack & Pinion / Button type
- · Weight: 10kg
- · Running speed: up to 1m/min
- \cdot Upward speed: up to 2m/min
- · Welding method: CO2 & MIG / 600A

· Complete solution for wire feeding and tube sheet welding, titanium alloy tube

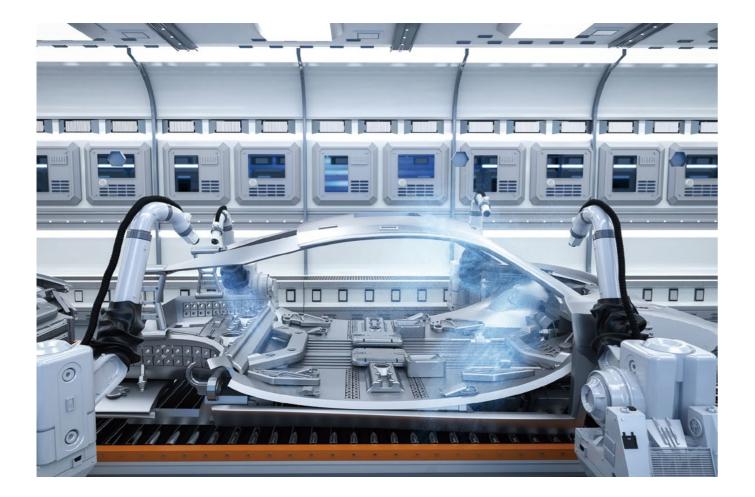
- · Dual gas protection to achieve perfect welding results
- \cdot Water cooling cooling system to ensure torch and discrete
- operating time and effectively prevent inner tube oxidation

 \cdot It is designed in a structure that adds a sense of unity to the connection part and can increase the strength, so there is no deformation in any impact or distortion, and there is no play in the connection part.

Automation Equipment

Welding Automation Equipment

Factory Automation Equipment



Welding Automation Equipment

PIPE COASTER



This is a device that cuts the pipe cap and branch pipe or the slider, and it is a device that can work according to the desired model by saving the cutting data with a dedicated CAM program.

- · Powerful performance and excellent handling ability
- \cdot Easy and precise cutting of joint welding without separate post-processing work
- · Various models can be cut
- \cdot Touch screen method and P/C combination

MODEL		JP-COS5-600N	JP-COS5-800N	JP-COS5-1000N	
MIN. PIPE DIAMETER		65A	65A	65A	
MAX. PIPE DIAMETER		600A	800A	1000A	
MAX. PIPE WEIGHT		Мах. 2000Кg			
EFFECTIVE PIPE LENGTH		Max. 6000mm			
CUTTING PROCESS		OXYGEN & PLASMA			
AIR PRESSURE		5Kg			
TABLE HEIGHT		F.L +770mm			
CUTTING	GAS	Max. 100mm			
THICKNESS (STEEL)	PLASMA	100A : Max. 25mm / 200A : Max. 40mm			
	ANGLE	100A : ±60° / 200A : ±50°			
TORCH BEVEL ANGLE	ANGLE CONTROL	AUTO & MANUAL			
	DRIVING	AC SERVO MOTOR			
TORCH UP- DOWN	STROKE	Max. 750mm	Max. 950mm	Max. 1150mm	
	SPEED	Max. 50mm			
	DRIVING	AC SERVO MOTOR			
CARRIAGE	TRAVEL STROKE	Max. 6300mm			
	TRAVEL SPEED	Max. 6m/min			
	DRIVING	AC SERVO MOTOR			



BENDING M/C





Pipe Bender Equipment used to bend pipes at arbitrary angles

- \cdot Made with sturdy one-piece frame
- \cdot Manufactured in a creep type for easy mold mounting
- · Angle digital control
- $\cdot \, \text{Easy}$ operation by the operator
- \cdot The working state is uniform by the sequence circuit method

MODEL		JP-BD 65	JP-BD 100	JP-BD 150
MAX.TUBE DIAMETER		15A~65A	65A~100A	100A~150A
EFFECTIVE TUBE LENGTH		6,000mm	6,000mm	6,000mm
BENDING	ROTATE	190°		
	SPEED	20°/Sec	15°/Sec	7.0°/Sec
	CENTER	F.L+1141mm	F.L+1091mm	F.L+1368mm
	RADIUS	Min:2.5D, Max:3D		
FORMER		1-STEP		
PRESSURE DIE BOOSTER		HYDRAULIC		
HYDRAULIC PUMP MOTOR		7.5Kw (11Kw)	15Kw (18.5Kw)	22Kw
AMOUNT HYDRAULIC OIL		400Liter	500Liter	700Liter
CONTROL		1 CYCLE AUTO (SEMI AUTO)		
TOTAL ELECTRIC POWER		7.5Kw	18Kw	25Kw
MACHINE	LENGTH	6,700mm	6,895mm	8,200mm
	HEIGHT	1,200mm	1,316mm	1,570mm
	WIDTH	1,250mm	1,325mm	2,785mm
	WEIGHT	5,500Kg	7,500Kg	13,000Kg

FACING M/C



Processing equipment for improving and processing the pipe end into a desired shape

- \cdot Various pattern shapes available
- · Easy operation and convenience
- · External groove (grooving) machining
- \cdot Excellent durability and simplicity
- · CNC control/precise work

MODEL		JP-CBV 600	JP-CBV 800
WORKABLE PIPE DIA		Ø150~600mm (6"~24")	Ø350~800mm (8"~32")
PLATE FACE DIAMETER		Ø600mm	Ø800mm
BITE HOLDER FOR BEVELING/FACING		1EA/1EA	1EA/1EA
SPINDLE RPM		40~200RPM	40~200RPM
SPINDLE MOTOR CAPACITY		7.5Kw	11Kw
MANUAL FEED		4mm/rev	4mm/rev
VISE CLAMPING RANGE		Ø150~600mm (6"~24")	Ø200~800mm (8"~32")
CENTERING ADJUST BY MANUAL		±5mm, 2mm/rev	±5mm, 2mm/rev
SIZE	LENGTH	2500mm	2600mm
	WIDTH	2400mm	2700mm
	HEIGHT	2050mm	2050mm
	CENTERING HEIGHT	1250mm	1250mm
NET WEIGHT		8000Kg	10000Kg



CUTTING M/C



Equipment to cut 45° and 90° elbows to the required angle

Control device and angle can be easily adjusted by touch method, and fast cutting operation is possible.
Smaller working space compared to the existing · product rotation method, so space utilization is high
Automatic optimization, internal digestion

МС	DEL	JP-ECM 600N	
CUTTING CAPACITY		200~600A	
LOADING CAPACITY		600Kg	
CHUCK CLAMPING METHOD		MANUAL BY HANDLE	
	METHOD	WORM REDUCER BY GEARED MOTOR	
	ANGLE	0~90°	
CHUCK TILTING	SPEED	1.5~5°/SEC	
	CONTROL	MANUAL	
	METHOD	WORM REDUCER BY GEARED MOTOR	
TABLE ROTATION	ANGLE	±360°	
(CUTTING)	SPEED	Max.32mm/sec	
	CONTROL	MANUAL	
	LENGTH	2,500mm	
MACHINE	HEIGHT	3,600mm	
WACHINE	WIDTH	1,400mm	
	WEIGHT	2,400Kg	

Factory Automation Equipment

FA is a technology that automates processes within a factory from product design to manufacturing and shipment. We aim to reduce energy and improve productivity and quality by introducing robots to unmanned processes and automating production management.

Line Automation Equipment



Welding Automation Equipment



Inspection and Measurement Automation







JEPAE's **R&D** Center

Conquest that considers the environment and safety creates the future of cutting-edge technology.

We design and manufacture research and development equipment in the form of government projects through corporate research institutes and industry-university cooperation to suit the purpose.

In order to establish a technological system, ZEPAE is conducting various R&D and national projects to secure its own technology through prototype production and continuous R&D.

In order to establish manufacturing infrastructure and infrastructure, we will establish a production system by preparing a production base by introducing a variety of specialized manpower and manufacturing facilities.



Research Field



Steel pipe pile construction method in basic civil engineering field

Japanese technology localization project



Build factory automation Smart Factory

> **Robot automation system** Smart Factory



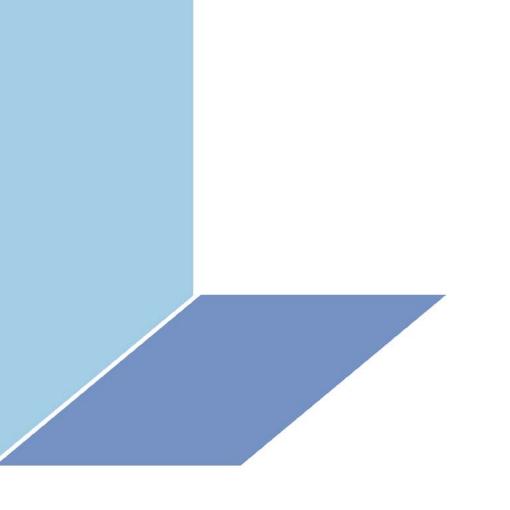
Build welding automation Smart Factory



FRP \rightarrow aluminum, Fossil energy \rightarrow Electric energy











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