INFRASTRUCTURE SYSTEM







To become a world brand by researching, developing and producing new Technologies that will form distinctions in transfer of the fluids

In order to transfer the fluids with the most optimal method; to achieve becoming a reliable and productive company by developing projects, products and systems peculiar to the problem with the accurate technology.







SELLING ITS PRODUCTS OVER 80 COUNTRIES













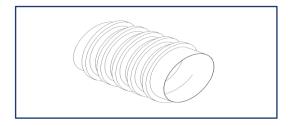
SEWAGE DISCHARGE SYSTEMS



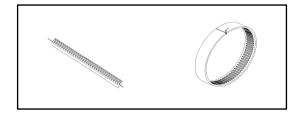
Advantages

- Perfect leak proof
- Flexibility
- High durability
- Strength against abrasion
- Resistance to chemicals
- Different welding techniques
- Resistance to earthquakes
- Long service life
- Resistance to decaying
- Mobile production

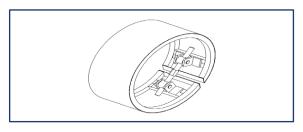




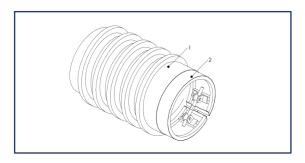
New technology spiral pipe



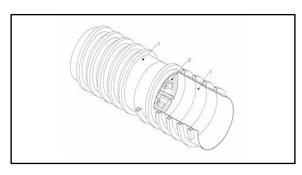
New technology electro fusion muff



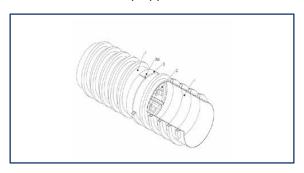
: Internal Stay Apparatus



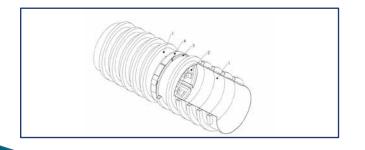
Installation of the Internal Stay Apparatus



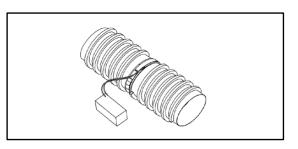
Internal Stay and assembly of pipes



: Placing the electro fusion muff on the pipe



Using the external stay apparatus



Performing EF welding













SPIRAL SELF PIPES

Raw Material : HDPE 100 Production Color : Black

Production Range: 500 mm - 3000 mm

Pressure Range : SR2 - SR32 1,5 Bar - Gravitational Flow

Unit Lengths: 6 or 12 meters Bar (Customized

Length may also be produced)

Production Standard: EN 13476 -1, DIN 16961

Certificates: TSE, Ghost ASTM F894-13







Advantages of Mobile Production

- Logistics Advantages
- Competative Unit Prices
- Dead Line
- Application Advantages

SAMPLE PROJECT:

1000 mm 6 km SR 16

1200 mm 6 km SR 16

1400 mm 6 km SR 16





LOGISTICS ADVANTAGES

MOBILE PRO	DUCTION		PIPE IN PIPE CALCULATION				
RAW MATERIAL TRANSPORT			PIPE TRANSPORT				
TOTAL WEIGHT	1135104		TOTAL WEIGHT	1135104			
TRUCK LOADING			TRUCK LOADING				
CAPASITY - kg	20000		CAPASITY - meter	12			
TRUCK QUANTITY	56,7552		TRUCK QUANTITY	263,5833333			
MACHINE TRANSPORT	15.000,00 \$						
TRANSPORT COST			TRANSPORT COST				
PER TRUCK	2.500,00 \$		PER TRUCK	2.500,00 \$			
TOTAL	156.888,00 \$		TOTAL	658.958,33 \$			
				-			





COMPETATIVE UNIT PRICES

MOBILE PRODUCTION	PIPE IN PIPE CALCULATION				
RAW MATERIAL TRANSPORT	PIPE TRANSPORT				
TOTAL EXWORKS ÇORLU	2240760	TOTAL EXWORKS ÇORLU	2240760		
TRANSPORT OF RAW					
MATRIAL	156.888,00 \$	TRANSPORT OF PIPES	658.958,33 \$		
TOTAL	2.397.648,00 \$	TOTAL	2.899.718,33 \$		
		DIFFERENCES \$	502.070,33 \$		
		DIFFERENCES %	20,94		



DEADLINE ADVANTAGES

- Mobile Production can be ready to ship in 1 week.
- The Production will be completed on Application Side so the goods can be applied just in time.
- The Pipe length does not have to be standard 6 meter.





APPLICATION ADVANTAGES

- Electrofusion makes more strong welding on applied points so any leakage is possible on welding points.
- The pipe lenght can be produced more then 6 meter so the quantity of welding points will be reduced.
- The application time will be reduced because of long pipe lenght.





MOBILE PRODUCTION CONDITIONS

EXPACTATIONS FROM LOCAL PARTNER

500 m'2 closed area

630 kWA trafo and electricity

connections

Water connections

Customs clearance for raw material

(definitive import)

Customs clearance for machine

(temporary import)

Hotel, flight cost for 4 production supervisors

Local workers which will be worke on production side

Loca Trade Rules and Office Taxe

MOBILE PRODUCTION CONDITIONS

RESPONSIBILITIES

Management of Production Area
The start up the Production
Transport of Raw Material and
Machines

Technical Approval of Produced Pipe Internal Management of Stock











The pipes are joined by means of a specially developed EF welding system. This special joining method guarantees a reliable weld and 100% tightness.











MOBILE PRODUCTION TECHNOLOJY



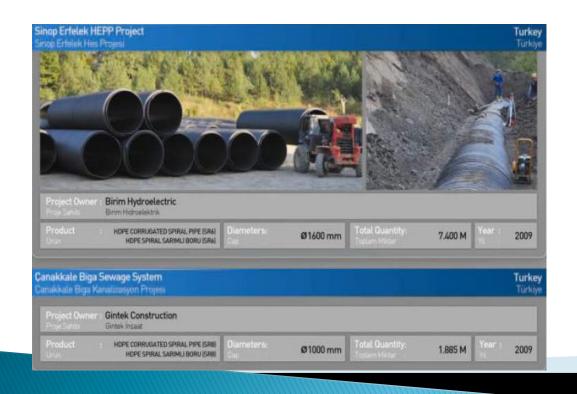
MOBILE PRODUCTION TECHNOLOJY



MOBILE PRODUCTION TECHNOLOJY



Some of Successful Projects Achieved by Dizayn Group ERFELEK, SINOP MOBILE PRODUCTION PROJECT



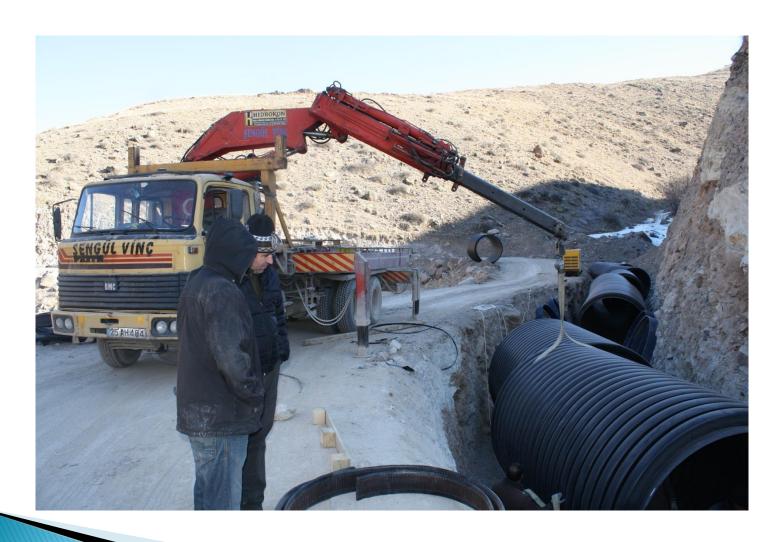
Thanks to this newlydeveloped technology, the manufacturing yard erected on the territory of the power plant and the resulting on-site manufacturing process clears the transport costs. Under this technology, when water supply lines are designed with plastic pipes, competitive costs can be produced compared





Stock in Mobile Production











Some of Successful Projects Achieved by RIZE CAYELI UZUNDERE HEPP PROJECT



Some of Successful Projects Achieved

EUROPEAN FREE-ZONE NETWORK PROJECT



COMPARATION BETWEEN OTHER RAW MATERIALS

FEATURES	PIPE TYPE	DJZAYN PE	PVC	STEEL	DUCTILE FONT	CONCRETE	GRP	ASBESTOS	EXPLANATION
Production range (mm	1)	Ø20 - Ø3600	Ø20 - Ø630	Ø15 - Ø4000	Ø50 - Ø2000	Ø200 - Ø3200	Ø20 - Ø1600	Ø Ø1600	
Guaranteed service life (year)		50	0-20	3-15	5-25	0-30	0-50	0-30	For the ppies other then PE 100 pipes, the service life depends on many parameters like quality of the raw material of the pipe, bedding in the trench, etc.
Feature of breaking		Very Durable	Weak	Durable	Durable	Very Weak	Partiallly Durable	Very Weak	
Max. Production lengti	h	500	6	12	6	4	6-12	4	
Standard production k	ength (m)	12	6	6	6	2	6	2	
Strength against corro		Very Durable Very easy	Partially Durable Very easy	Very Weak Difficult	Very Weak Very Difficult	Partially Durable Very Difficult	Durable Very Difficult	Weak Very Difficult	This evaluation depends on the nature and type of the chemical ike SO2, Nax, Clorine
The eassines of the ins		very easy	very easy	Diritori	very birricult	very Dillicuit	very birricuit	very Diricult	
(The easiest: 100 The r		100	50	25	40	15	45	5	
Superiority from the si	ide of hygiene	Perfect	Doubtful	Doubtful	Doubtful	Doubtful	Good	Troubles	
Surface roughness coo	efficient (C)	149	149	120	130	100	145	130	Depend on the quality of the production and raw material.
Variety of fittings and	their price	Perfect-Cheap	Perfect-Cheap	Limited-	Limited-	Limited-	Limited-	Limited-	
				expensive	Very expensive	expensive	expensive	expensive	
Strength against chem	nicals	Perfect	Doubtful	Troubles	Doubtful	Doubtful	Good	Doubtful	
Surface elasticity coef	ficient (C)	377	33	0,5	1	4,4	>3	-0,5	
Ability for passifying the	he ram impact	Perfect	Troubles	Troubles	Troubles	Troubles	Troubles	Troubles	
The easiness of making test at site	g pressure	Perfect	Troubles	Troubles	Troubles	Troubles	Troubles	Troubles	Since the connection f the pipes other than steel and PE pipes is done using o-ring, it is very difficult to have perfect leak proof. It is necessary to take additional precautions for absolute leak proof.
Need of bends at turn	points	Very little	Very much	Very much	Very much	Very much	Very much	Very much	For PE 100 pipes it is possible to make even full round shape with a diameter 25 times of the pipe outer diameter.
Max. instant test press	sure (for PN 10)	>28 bar	>16 bar	>40 bar	>40bar	>13bar	>18 bar	>13 bar	
The safety of 1 connec (max.:100-min.:0)	tion points	100	0-50	0-80	0-80	0-30	0-70	0-40	The connections with o-ring always create problems. For PE pipes, since the connection is done by welding, the molecular fusion makes.
Ability for passifying the	he ram impact	Perfect	Doubtful	Troubles	Doubtful	Troubles	Doubtful	Troubles	
Needed trench width		approx,965-10	approx.% 100	approx.%200	approx.% 110	approx.%200	approx.%200	approx.%200	These figures are for pipes with average 400
(as %pipe diameter)		wider than the	wider than the	wider than the	wider than the	wider than the	wider than the	wider than the	mm diameter.

Thank you



