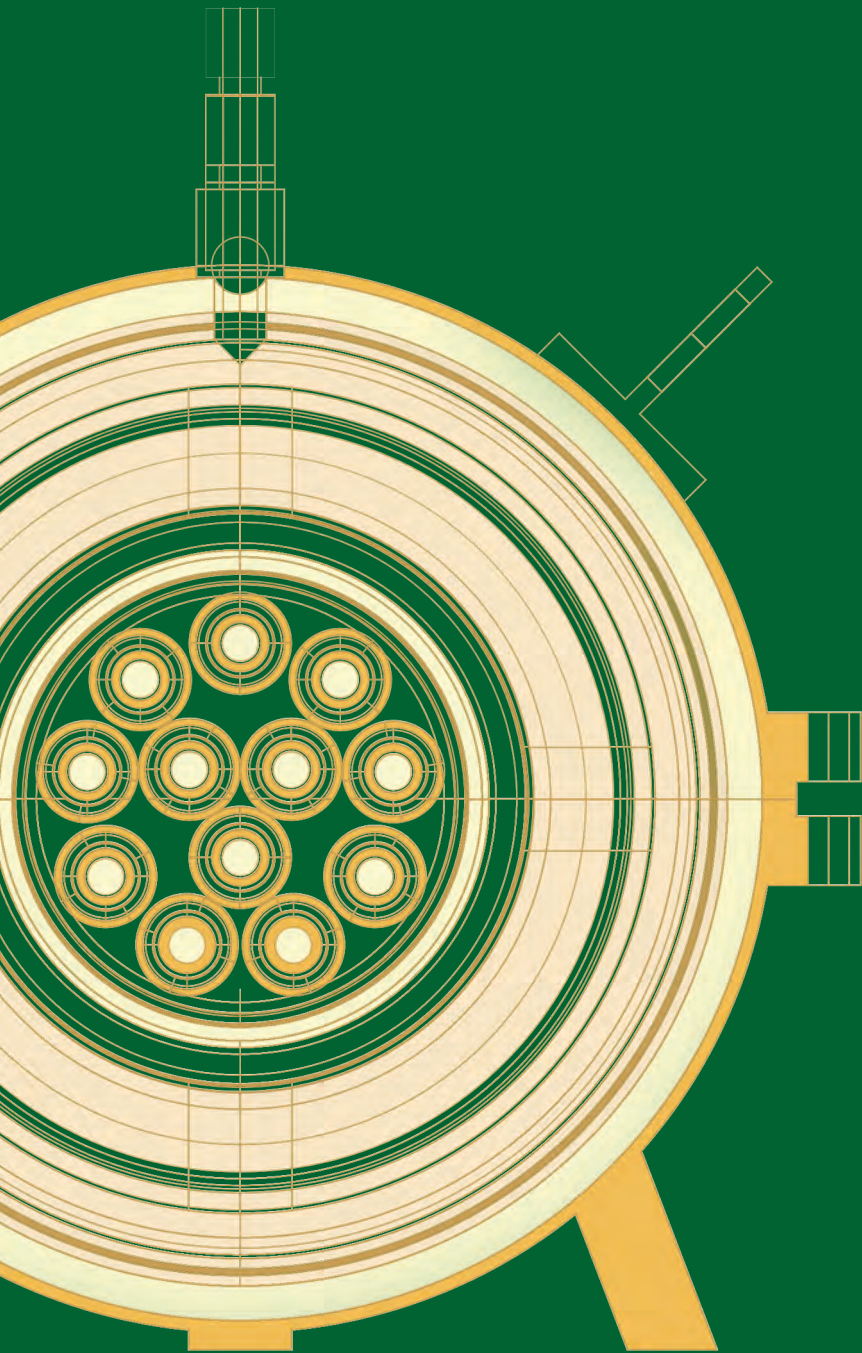


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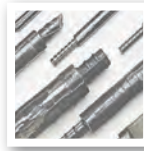
Art & Engineering
in Bridges





Structural Design

Prestressed Concrete, Concrete-Steel Composites Bridges. Buildings, Silos & Tanks. Value and Construction Engineering.



Rebar Splicing

With cold-swaged Couplers, #4 to #18 rebar sizes.

DEL



Post-tensioning

Multistrand with tendon capacities up to 10 000 KN. Monostrand, Bar, flat Multistrand.

DEL



Ground Anchors

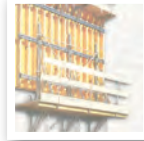
Bar & Strand. Temporary & Permanent. Self-drilling & traditional.

DEL



Stay & Suspension Cables **DEL** for Bridges, Domes & Roofs

With bare, galvanized, polyester and epoxy coated Strand.



Climbing Forms

Manual & Automatic.

doka



Incrementally Launched Bridges **DEL**

Engineering & Systems.

DEL



Preformed Seals

For concrete Slabs.



Form Travelers

For Balanced Cantilever Bridges.

DEL



Expansion Joints

Modular, Transflex, & Asphaltic.



Advancing Shoring

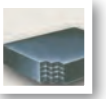
For Bridge in-situ Construction.

DEL



Bridge Bearings

Pot, Spherical & Elastomeric Pads.



Beam & Segments Launchers

Hydraulic-Electrically operated.

DEL



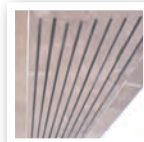
Seismic Protection Devices

Shock Transmission Units. Dampers for Bridges & Stays.



Precast-Prestressed Beams **DEL**

DEL



Carbon Fibers

Engineering & Installation.

FYFE



Jacking Systems **DEL**

Lifting, Lowering, Shifting, Pile driving, Pipe Jacking.

DEL



Structure repair & upgrade

With listed Techniques.



Moveable Bridges **DEL**

Engineering & Systems.


















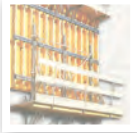



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6. Stay & Suspension Cables

Project	Constructor/Owner	Location	Year
Airport Access Interchange	Ingenieria y Proyectos Medi, S.A. de C.V.	Mexico City	2013
Carrera Novena Bridge	Consortio Internacional Viaducto Carrera Novena	Bucaramanga, Colombia	2012
Las Coloradas Bridge	Remolcadores para Construcción, S.A. de C.V.	Valladolid-Río Lagartos, Hway Yucatán	2012
Aguarico Bridge	Taller Industrial Ponce	Ecuador	2011
Vidalta Bridge	Banca Mifel, S.A.	Mexico City	2009
Convention Center Zacatecas	Construcciones Y Edificaciones Gals, S.A. De C.V.	Zacatecas, Zacatecas	2008
El Parque Bicentenario Bridge	Municipio De Queretaro	Querétaro, Querétaro	2008
Tlalpan Footbridge Suspension Cables	Caminos y Puentes Federales de Ingresos y Servicios Conexos, Delegación Regional IV Zona Centro Sur.	México-Cuernavaca Hway	2006
Amador Salazar Bridge.	Ingenieros Consultores e Inmobiliaria, S.A. de C.V.	Mexico City	2004
Río Chiquito Pipeline.	PEMEX, Refinación.	Maltrata, Veracruz.	2003
Duarte Bridge over the Ozama river. Cable Installation.	Dragados FC.C.	Santo Domingo, República Dominicana	2002



Río Chiquito Pipeline, Veracruz



Grijalva I Bridge , Villahermosa, Tabasco



Zacatecas Convention Center



Tlalpan Footbridge, Mexico City

6. Stay & Suspension Cables

Project	Constructor/Owner	Location	Year
Grijalva I Bridge.	Gobierno del Estado de Tabasco. CAPUFE.	Villahermosa -Chetumal Hway	2001
Ciudad Judicial Interchange. Supply and Installation of post- tensioning materials.	Grupo Constructor Indigo, S.A de C.V.	Puebla, Puebla.	2000
“Alvarado y Tlacotalpan” Bridge Supply and Installation of protection for the cables.	CAPUFE.	Veracruz.	2000
Papaloapan Bridge.	OPSA de GMD (Concesionaria) D.G.C.F. (Propietario Final)	La Tinaja - Cosoleacaque Hway	1993
Quetzalapa Bridge.	TRIBASA (Concesionaria) D.G.C.F. (Propietario Final)	México-Acapulco Hway	1993
Barranca El Cañón Bridge.	OPSA de GMD (Concesionaria) D.G.C.F. (Propietario Final)	México-Acapulco Hway	1990
Telecomunicaciones Bridge and Amador Salazar Bridge.	COVITUR, D.D.F.	Mexico City	1990



Papaloapan Bridge , Veracruz.



Vidalta Bridge , Mexico City



Quetzalapa Bridge, México-Acapulco Highway.



Barranca El Cañón Bridge, México-Acapulco Highway.

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