



**MANAGEMENT, CONTROL AND
EXECUTION OF CIVIL WORKS**



Commitment, Capability and Experience





Elmasa, specialists in earthworks and blasting

Elmasa Obras Públicas boasts over 20 years of experience, as a firm determined to offer a fully integrated service for your earthworks and blasting needs.

A diverse fleet of machinery and a well-qualified staff of university educated technicians enjoying proven experience, make Elmasa a benchmark in the sector. The team of directors' challenge has been to create a company that is specialised, effective, efficient, dynamic and flexible to adapt to every new request from their clients.





- 02 - Integrated service
- 04 - Elmasa in figures
- 06 - Differential values
- 08 - Specialised technicians
- 10 - Specific auxiliary installations
- 12 - Laboratory
- 14 - Wide experience
- 16 - Any type of project
- 36 - Continuous investment in machinery
- 50 - Open to new challenges



Global management of earthworks and blasting

INTEGRATED SERVICE





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We present Elmasa as a specialised supplier of integrated services for earthworks and blasting, recycling and preparation of aggregates, assessing, advising and supporting our clients on any question in this field. Elmasa's activities do not end with the every-day activities such as excavating and transport of materials, but offers clients a complete earthwork service including blasting, manufacture and selection of aggregates, recycling, trenches and other specific types of excavations,... from the design stage through to the management and execution of the work, we can always count on a team of highly qualified technicians.



ELMASA IN FIGURES



Solid, long term company project



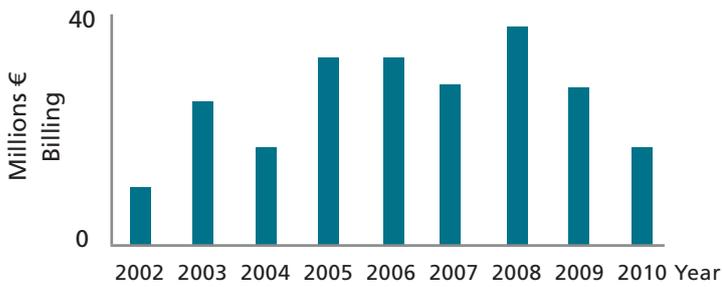
Elmasa has, in the last few years, doubled its turnover thanks to its strong capabilities and having known how to take advantage of the opportunities available in the market.

The management team, with a long-term business philosophy has reinvested the resources generated in the consolidation and development of the business.

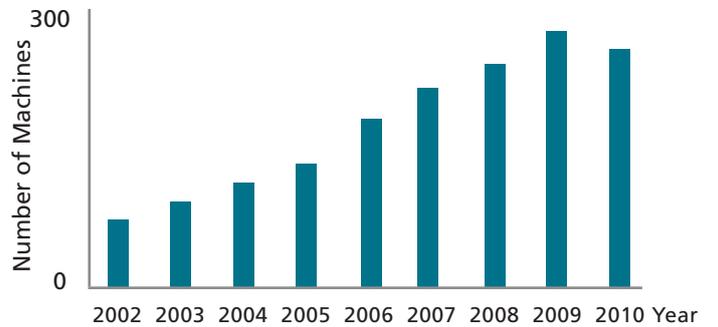
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Strong Growth

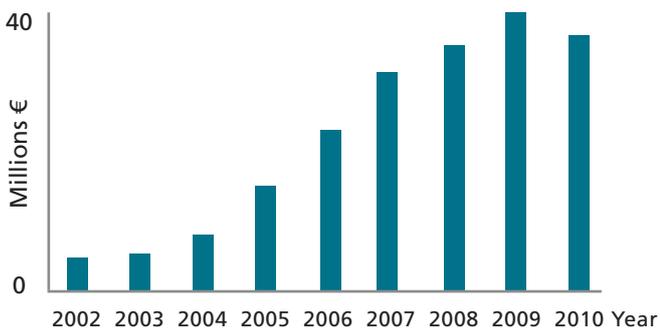


Increased Productivity Capacity



Continuous Investment

Fixed assets





DIFFERENTIAL VALUES



Quality, experience and service as a vocation

An integrated, specialised, quality, service upheld by the belief in company values and in the will to respect them.

For Elmasa, all these values are equally important:

- A team working together; committed to the company itself and to our clients.
- Installations and auxiliary equipment at the service of the projects.
- Learning capacity and constants improvement guaranteed by over 20 years of experience in important projects.
- Our own machinery is in tip-top condition with the technical requirements that our clients need.

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SPECIALISED TECHNICIANS

Professional team, highly qualified with experience and capacity

The Elmasa team is made up of professionals with different profiles, all committed and armed with specific knowledge and a wide experience in the sector. The team is made complete with highly trained technicians; including civil engineers, mining engineers, topographers and others; well qualified master journeymen fill the roles of supervisors, foremen and hands with all manner of skills, all kind of specialists, including workmen, machine operators, mechanics, soldering experts, electricians, etc.



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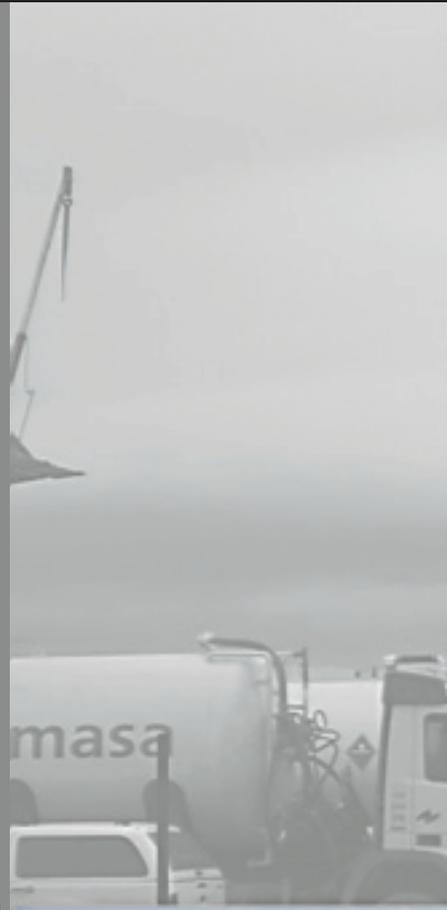




SPECIFIC AUXILIARY INSTALLATIONS

Full orientation of all resources for building

In Elmasa's installations their own highly qualified technical team is responsible for the maintenance of the machinery in service, thus giving an immediate solution to any breakdown or unforeseen incidence. In addition, Elmasa has centralised services dealing with the administrative management and optimising the available services.



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Laboratory tests of soils for recognition and terrain analysis

LABORATORY



-ELMASA has highly qualified staff and a wide experience in soil testing laboratory for recognition and terrain analysis, in order to meet the needs of public and private sector.

-We address your particular needs as deadlines, difficulties in the soil, etc. providing the best and most effective solvency.

-Laboratory test to determinate the conditions of soil distribution, geologic and geotechnical conditions used for ELMASA, are developed according to adequate and standardized procedures in situ and perforations.



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Soil testing::

- Soil particle size analysis test, gravel and aggregates (sieving and sedimentation)
- Sand equivalent test
- Atterberg limits
- Determination of organic content
- Determination of water content
- Modified Proctor.
- CBR.
- Determination of density, porosity, absorption coefficient and water content.
- Determination crush stiffness coefficient and form factor.
- Determination the degree of uniformity in aggregates.
- Determination of the cleaning in aggregates.
- Testing of Los Angeles.
- Uniaxial compressive strength test.
- Determination in situ density by the method of membrane.
- Determination of the plate load test.

Concrete Test:

- Water quality for concrete.
- Compressive strength of concrete.
- Analysis of fresh concrete.
- Vicat testing
- Determination of thickness.

Testing of bitumen:

- Flashpoint.
- Penetration needle.
- Ring and ball softening point.
- Temperature.
- Viscosity.
- Extraction Test TWIT.
- Adherence test.
- Adherence test with Vialit plate.



WIDE EXPERIENCE

Continuous improvement based on solid experience and on an innate disposition for earthworks

Elmasa boasts a 20-year career in the sector, during which we have managed directly earthworks of different kinds. This has allowed us to gather experience and develop distinctive capabilities in the management of earthworks and blasting. This experience lends Elmasa the ability to take on any type of project and to be a benchmark supplier for builders and large building contractors. Elmasa also has distribution bases in northern Spain and abroad.



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ANY TYPE OF PROJECT

Capacity to take on the challenge of any type of project



Elmasa enjoys a widely general vocation and as an integrated manager of earthworks in any type of project: roads, railway lines, water conduits, gas pipelines, oil pipelines, maritime works, residential estates, dams, etc. Elmasa has taken an active part in great projects in public and private sector civil engineering, working on infrastructures, residential and industrial estates and building.



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WORKS

Roads · Dual-carriageways · Motorways



■ Roads

Conduits

Trenching Equipment

Dams

Railways

Residential Estates

Reinforced concrete structures

Stabilized

01	02
05	03
06	04

- 01 UTE (TEMPORARY JOINT VENTURE) VALLE DE LOS CAIDOS. Third lane and tunnel Guadarrama (Madrid).
- 02 Zeme Rocade (2nd Ring road) Motorway of Alger (Algeria)
- 03 Dual-carriageway A-23 from Arguís to Monrepós (Huesca).
- 04 El Molar (Madrid) ring road.
- 05 National Road 121 between Irun and Pamplona
- 06 New Autonomus Dual-carriageway between Navalmoral de la Mata and Plasencia. Stretch II (Rio Tietar - N-630).



ACS

- Improvement M-608. Cerceda (Madrid).
- Improvement M-604. El Cuadrón (Madrid).

ACS - FCC - OHL - SACYR

- RADIALES UTE
- Toll motorway R-3- stretch from: M-45 to Río Jarama (Madrid).
- Motorway M-50, stretch: M-511 to M-513 (Madrid).

ACS - FCC - SACYR

- UTE Ávila 6. Toll motorway A-6, connection to Avila, stretch 2.

COMSA - CORSAN - CORVIAM

- UTE COLUNGA - CARAVIA Dual Carriageway of Cantábrico CN-620.

COMSA-PADECASA

- Enlargement AP-6 third lane, stretch San Rafael-Villacastín (Segovia).

CONSTRUCCIONES SARRIÓN

- Conditioning of CM-215 (Cuenca)

CORSAN - CORVIAM

- Improvement N-III, stretch: Arganda del Rey (Madrid).
- Motorway I.C. 16 Radial Pontinha Portugal.
- Widening and Improvement of the road from Velilla - Triollo (Palencia).

DRAGADOS - ACSA

- UTE CUARTO CARRIL. Enlargement A-6 4th lane Las Rozas (North) and Collado Villalba (Madrid).
- UTE TUNNEL VALLE DE LOS CAÍDOS. Third lane and tunnel Guadarrama (Madrid).

DRAGADOS - FCC - ACSA

- UTE AP6 STRETCH II - Third and Forth lanes AP6, stretch from Collado Villalba - Junction Valle de los Caídos (Madrid).

DRAGADOS Obras y Proyectos

- Road widening Guijuelo-Béjar (Salamanca).
- Widening N-III, stretch from: Las Rozas - Collado Villalba (Madrid).
- Improvement road M-607, stretch from Colmenar Viejo - Cerceda (Madrid).

FCC

- Dual Carriageway A-23 stretch from Arguís - Monrepós (Huesca).

FERROVIAL - AGROMAN

- Dual-carriageway of North-East A-6, stretch from: Benavente - La Bañeza.

FERROVIAL - DRAGADOS - NECSO

- UTE SEGOVIA 6. Toll Motorway A-6 stretch Los Ángeles de San Rafael (Segovia).

GEA 21 - ROVER ALCISA - CARIJA

- UTE FUENTE DE CANTOS. Dual-carriageway de la Plata. From Fuente de Cantos. L.P. Huelva.

OHL

- 2nd Ring road Autorroutière D'Alger.

OHL - ELSAN PACSA

- El Molar (Madrid) ring road.

OHL - IDECOMSA - ECAY - ANDUEZA

- Eje de Belate N-121A. Stretch from: Sumbilla-Echalar and Echalar-Vera de Bidasoa, Irún (Guipúzcoa).

SACYR, S.A.

- Widening and improvement of the road M-231 stretch from: Villarejo de Salvanés to Villamanrique de Tajo (Madrid).

SACYR - ARIAS Hnos.

- UTE Arteixo - Dual-carriageway of North-West A- 6, stretch from: A-9 to Arteixo (A Coruña).

SACYR - MAGENTA - COPEMOVEX

- New Dual Carriageway between Navalmodal de la Mata and Plasencia. Stretch II Río Tietar N-630 (Cáceres).

VÍAS - ISOLUX - CORSAN CORVIAN

- Duplication of the road M-501 (Madrid).

WORKS

Conduits · Oil pipelines · Gas pipelines



01	02
	03
	04

Roads

■ **Conduits**

Trenching Equipment

Dams

Railways

Residential Estates

Reinforced concrete structures

Stabilized

- 01 Installation of the desalter of Carboneras to the Valle de Almanzora phase I (Almería).
- 02 SACYR manifold PAU II Carabanchel (Madrid).
- 03 Beja Canal (Pisao-Ferreira).
- 04 Gas pipeline Valga-Tuy (Pontevedra).



ACCIONA

- 4th stretch of 2nd ring of drinking water distribution for CAM

ACS

- Drinking water conduit for La Cabrera (Madrid).

CHV - SOGEOSA - EPTISA

- UTE ABASTECIMIENTO PLASENCIA
Construction of conduit from water treatment plant to Plasencia's deposits (Cáceres).

CORSAN - CORVIAN

- Water supply Torrijos, La Puebla de Montalbán, Fuensalida (Toledo).

DRAGADOS - MECO

- UTE (TEMPORARY JOINT VENTURE)
ALMADÉN - Supply Almadén and the surrounding area from La Colada dam to Almadén (Ciudad Real).

DRAGADOS Obras y Proyectos

- Extension of water supply to Algodor. Stretch III (Toledo).

FERPI TTES. Y OBRAS

- Oil pipeline A Coruña - Vigo.
- Gas pipeline Ramal A Coruña to Ferrol (A Coruña).

FERROVIAL - AGROMAN

- Gas pipeline and connection network (A Coruña).
- Oil pipeline Cartagena - Puertollano, stretch II.
- Valmayor crossing - Picadas (Madrid).
- Beja Canal (Pisao-Ferrerira).

NECSO

- Gas pipeline Valga-Tuy (Pontevedra).

OHL - OHV

- UTE (TEMPORARY JOINT VENTURE)
CASRAMA - Project: supply to Casrama with resources from the Manzanares River (Madrid).

ORTÍZ

- Supply to Meco (Madrid).

ORTÍZ - GRUPAL

- Installation of the desalter of Carboneras to the Valle de Alanzora phase I (Almería).

OSHA

- Gas pipeline for network Torreledones and Hoyo de Manzanares (Madrid).

SACYR S.A.

- Main drainage Valdebebas (Madrid).
- Main drainage P.A.U. II-6 Carabanchel (Madrid).

SACYR - CIOPSA

- Strengthening of supply to Aranjuez and area of influence (Madrid).

SANDO

- Irrigation water supply using recycled water in Culebro system (Madrid).

SANDO - SOSEGOSA

- 1st stretch of 2nd main ring of drinking water distribution for CAM (Madrid).



WORKS

Trenching Equipment



Roads

Conduits

■ **Trenching Equipment**

Dams

Railways

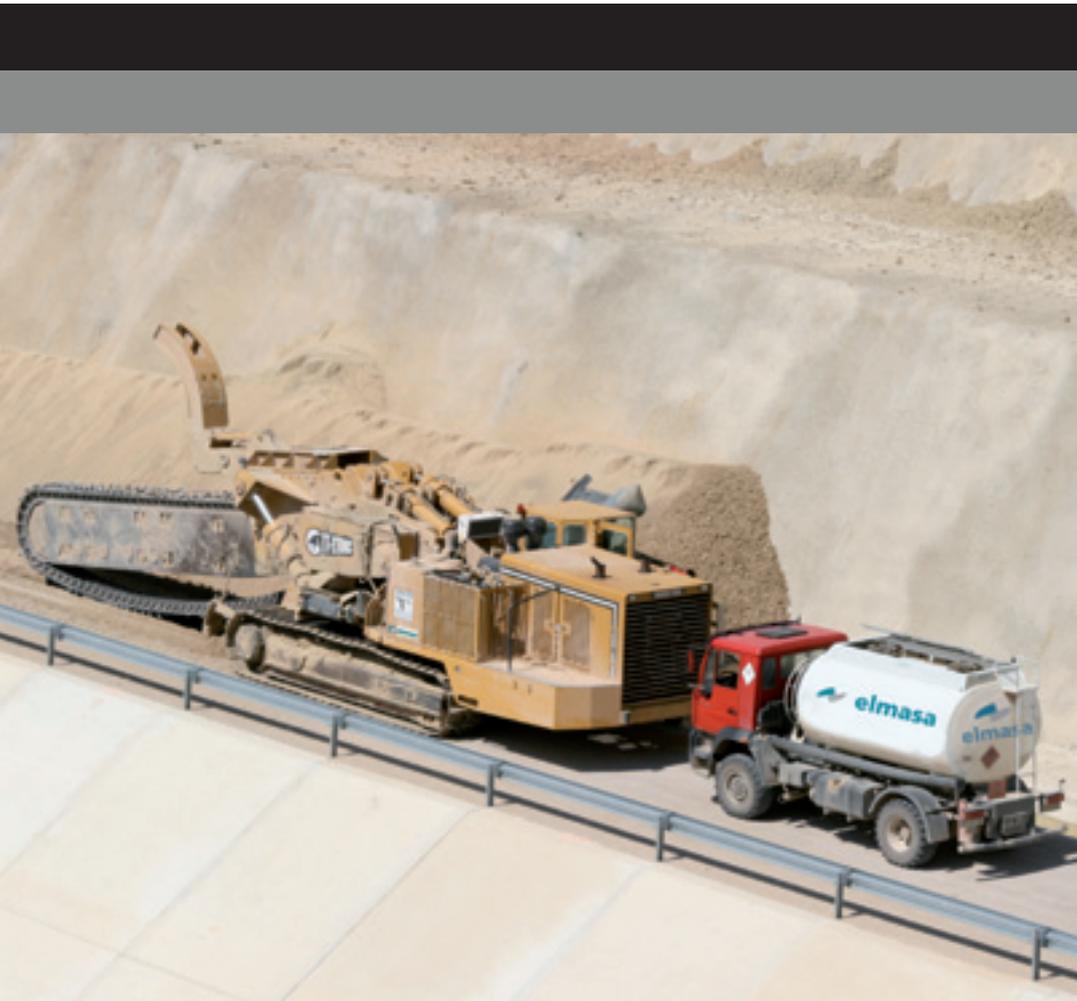
Residential Estates

Reinforced concrete structures

Stabilized

01	02
03	04
	05

- 01 ACCIONA / MJ CRANES
Irrigation South Garrigues (Lleida)
- 02 SACYR
Drainage for Navarra channel
- 03 SPIECAPAG / GROUP FIVE
NMPP Multiducto-Durban Johannesburg
(South Africa).
- 04 Transportation TT2500.
- 05 Improvement in the supply of
Cáceres from the reservoir Portaje
(Cáceres).



ADVANTAGES:

- High execution speed.
- Possibility of excavation in hard terrains without hydraulic hammers or explosives.
- High quality finishes and lateral accuracy of excavation.
- Reuse of excavated materials.
- Avoids the use of landfill.
- Direct collection of fine materials for use as sand beds and precover.
- Overexcavation is avoided, so it is needed less track width.
- Possibility of automatic control by GPS.

TRENCH DIMENSIONS

- Width from 0,60 m to 2,00 m.
- Depths up to 4,5 m.

FEATURES OF TRENCHING EQUIPMENT

TRENCOR 1060	40 TN
TRENCH TECH 2500	80 TN
TRENCH TECH 2700	140 TN
TRENCOR 1760	160 TN



WORKS

Trenching Equipment



Roads

Conduits

■ **Trenching Equipment**

Dams

Railways

Residential Estates

Reinforced concrete structures

Stabilized



- 01 ELEC NOR
Pipeline Yela-Villar de Arnedo
(northern section).
- 02 FCC
Pipeline Yela-Villar de Arnedo
(southern section).
- 03 UTE (Temporary joint venture) Supplying
Caceres
(BEFESA-ABENGOA) Water supply
improvement for Caceres city from Portaje
reservoir.
- 04 FCC
Pipeline Yela-Villar de Arnedo
(southern section).
- 05 FCC
Pipeline Yela-Villar de Arnedo
(southern section).



UTE Cáceres Supply (BEFESA-Sando)

- Water supply improvement for Cáceres city from Portaje reservoir (Cáceres)

UTE Almaden (DRAGADOS-MECO)

- Supplying Almaden and its region from Colada dam to Almaden(Ciudad Real).

ELECNOR

- Pipeline Yela-Villar de Arnedo, Northern Section.
- Pipeline Yela-Almazan (Guadalajara / Soria).
- Cartagena-Puertollano pipeline section II (Murcia).
- PE Almatret (Lleida).
- PE San Antoni (Lleida).

FERROVIAL-AGROMAN

- Pipeline Zaragoza-Torrejón. Section: Zaragoza Arcos del Jalon).

FCC

- Pipeline Yela-Villar de Arnedo, Southern Section.
- Pipeline Gallur ring (Zaragoza).
- Pipeline Conquest-Almodovar (Ciudad Real).
- Cartagena-Puertollano pipeline section I (Murcia).
- Aqueduct Deva-Nasa (Cantabria).

COLLOSA

- Pipeline Ajofrín-Toledo (Toledo).
- Pipeline Haro-Lemona (Vitoria / Bilbao).

GISCA

- Pipeline Alcazar de San Juan-Villarrobledo (Albacete).

BONATTI

- Pipeline Almería-Chinchilla (Almería / Albacete).

SICCIM

- Pipeline Chinchilla - Calasparra (Albacete / Almería).

INEREX

- Pipeline Route de la Plata (Cáceres).
- Pipeline Zafra-Mérida (Badajoz).

OSHA

- Pipeline Cartagena-Puertollano section IV (Ciudad Real).

SPIECAPAG/GROUP FIVE

- Multiducto NMPP Johannesburg-Durban (South Africa).

EMILIO BOLADO

- Aqueduct Reinosa-Santander (Cantabria).

ACCIONA

- Aqueduct Bolaños-Almagro (Ciudad Real).
- Solar Park in Zuera (Zaragoza).

ACCIONA/MJ CRANES

- Irrigation Garrigues South Juncosa (Lleida).

PAVASAL

- Irrigation Sallent (Valencia).

BALZOLA

- Irrigation Lanciego (Alava)
- New facility in Burgos CDH deposits (Burgos).

COPCISA

- Canal Segarra-Garrigues tramo Agramunt (Lérida).
- Canal Segarra-Garrigues tramo Alfés (Lérida).

SACYR

- Navarra drainage channel. Depth of 6.80 m (Navarra).
- Solar Park Don Alvaio in Mérida (Badajoz).
- Housing development Puerto Valencia (Zaragoza).

APO

- PE Almoren in Calatayud (Zaragoza).

THE UTE

- PE Los Morrones (Granada).

CELYSA

- Housing development in Baroba (Soria).

WORKS

Dams · Desalters · Sewage-works



Roads

Conduits

Trenching Equipment

■ **Dams**

Railways

Residential Estates

Reinforced concrete structures

Stabilized

01	02
	03
	04

- 01 Enlargement of the E.T.A.P. of Valmayor (Madrid).
- 02 Reservoir enlargement Yesa on the Aragón River (Navarra).
- 03 Ceguilla River Dam (Segovia)
- 04 Desalter plant, Honaine (Algeria).



ACCIONA

- UTE (TEMPORARY JOINT VENTURE) EDAR NAVARROSILLOS. Enlargement of EDAR in Colmenar Viejo (Madrid).

ACS

- Ceguilla River Dam (Segovia).

ACS - FCC - FERROVIAL

- UTE (TEMPORARY JOINT VENTURE) YESA. Yesa Dam (Navarra).

CORSAN - CORVIAM

- Regulating tank for E.T.A.P. in Colmenar Viejo (Madrid).

FERROVIAL - AGROMAN

- Valmayor crossing - Picadas (Madrid).

FERROVIAL - CADAGUA

ACCIONA INFRAESTRUCTURA ACCIONA AGUA

- UTE (TEMPORARY JOINT VENTURE) VALMAYOR. Enlargement of the E.T.A.P. of Valmayor (Madrid).

OHL

- Extension of supply to Las Navas del Marques (Ávila).

ORTIZ - PRIDESA

- Construction fire refining installation and other improvements to E.T.A.P. of Santillana.

SACYR S.A.

- Conditioning of dumping area for the Pinto Tip (Madrid).

SACYR - BEFESA

- Desalter plant, Honaine (Algeria).



WORKS

Railways



Roads

Conduits

Trenching Equipment

Presas

■ **Railways**

Residential Estates

Reinforced concrete structures

Stabilized

01	02
	03

- 01 N.A.F. North and North-West of Spain. Stretch from Tres Cantos - Colmenar Viejo (Madrid).
- 02 UTE (TEMPORARY JOINT VENTURE) SAN PEDRO. North entrance of the San Pedro tunnel N.A.F. North and North-West Spain (Madrid).
- 03 OHL Construction of two railroad way between Annaba and Ramdane (Algerie).



ALDESA - SANDO - COPASA - TAPUSA

- UTE (TEMPORARY JOINT VENTURE) SAN PEDRO. North Entrance to the San Pedro. tunnel N.A.F. North and North-West Spain (Madrid).
- UTE (TEMPORARY JOINT VENTURE) SOTO DEL REAL. N.A.F. North and North-West Spain. Stretch from Colmenar Viejo - Soto del Real (Madrid).

COMSA

- Elimination of level-crossing Madrid-Segovia. Los Molinos (Madrid).

FERROVIAL - SACYR - CAVOSA

- Tunnel Pajares lot 3 (Oviedo).

NECSO - DRAGADOS - SACYR - OHL - TECSA - COMSA - GUINOVAR

- UTE (TEMPORARY JOINT VENTURE) TUNNEL GUADARRAMA SUR - New railway access to North and North-West Spain (Madrid, Segovia, Valladolid).

OHL

- Light metro line stretch from Colonia Jardín to Pozuelo de Alarcón (Madrid).
- New railway line between Móstoles Central and Navalcarnero.
- Construction of two railroad way between Annaba and Ramdane (Algerie).

VÍAS y CONSTRUCCIONES

- N.A.F. North and North-West Spain. Stretch Tres Cantos - Colmenar Viejo (Madrid).



WORKS

Residential Estates · Other Works



Roads

Conduits

Trenching Equipment

Dams

Railways

■ Residential Estates

Reinforced concrete structures

Stabilized

01	02
03	04

- 01 UTE (TEMPORARY JOINT VENTURE)
LA ETACIÓN.
La Estación Residential Estate,
Colmenar Viejo (Madrid).
- 02 Nuevo Tres Cantos Residential
Estate (Madrid).
- 03 Buenavista Residential Estate
(Madrid).
- 04 Las Zanjas Residential Estate,
Valdemoro (Madrid).



RESIDENTIAL ESTATES

COMYLSA

- Residential Estate of 144 houses in Collado Villalba (Madrid).

FCC

- Nuevo Tres Cantos Residential Estate (Madrid).

OBRUM

- Las Zanjás Residential Estate, Valdemoro (Madrid).

OBRUM - GRABITUM

- Unamuno Residential Estate in San Lorenzo de El Escorial (Madrid).

ORTÍZ - RICO

- La Estación Residential Estate Colmenar Viejo (Madrid).

SACYR, S.A.

- Industrial Estate Pinto (Madrid).
- El Tomillar Estate, El Escorial (Madrid).
- P.A.U. Estate Carabanchel.
- Busines Park Arroyo Culebro, Leganés (Madrid).
- Manzanares Park (Madrid).
- Buenavista Estate, Getafe (Madrid).

SANDO

- Las Adelfillas Estate, Colmenar Viejo (Madrid).

OTHER WORKS

AC HOTELES

- Demolition hotel Fluxá (Mallorca).

BEGAR

- Espacio Torreldones Shopping Centre (Madrid).

COMYLSA

- Demolition of the San Juan bridge in Alcaudete (Córdoba).

FCC

- School- Peñalvento, Colmenar Viejo (Madrid).

FERROVIAL - AGROMAN

- Shopping and leisure centre "Planetocio" Collado Villalba (Madrid).

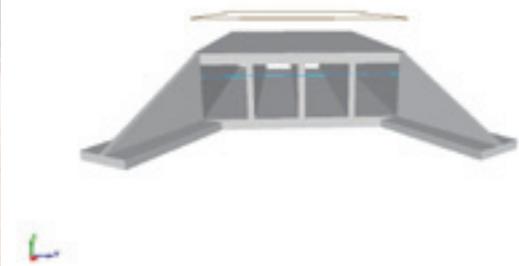
SAN JOSÉ

- Endesa new HQ Parque Juan Carlos I (Madrid).



WORKS

Reinforced concrete structures



Roads

Conduits

Trenching Equipment

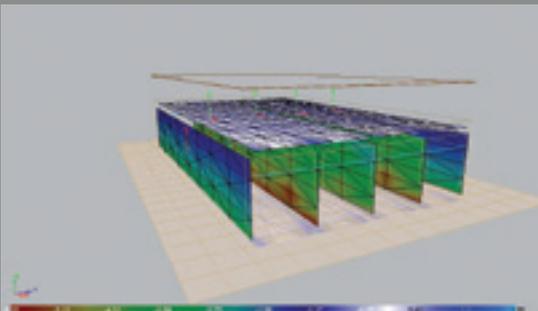
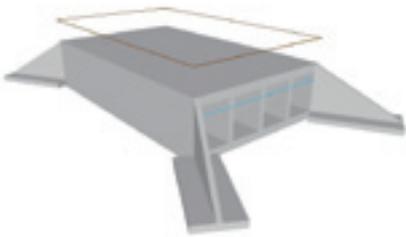
Dams

Railways

Residential Estates

■ **Reinforced concrete structures**

Stabilized



- Specialists in reinforced concrete structures through CYPECAD
- ELMASA has a team where engineers, framers and iron workers have a large experience and proven results in order to facilitate the management of their projects.
- Corporate culture of ELMASA, is based on guarantee our customers, a good service, respecting the deadlines and quality standards.
- We advise our customers for choosing the best solution according to the project needs to be done.
- Our work and interest in your development, is our commitment to achieve the satisfaction of our customers.

WORKS

Stabilized



- Roads
- Conduits
- Trenching Equipment
- Dams
- Railways
- Residential Estates
- Reinforced concrete structures
- **Stabilized**



- For economic and environmental reasons, in lineal infrastructure projects, it is recommended to use in situ, existing materials, especially those works where the quality requirements are very high

- ELMASA uses this technique build improved esplanades from deficit soils

Advantages:

- Allows the use of material from the soil, improving their characteristics to the satisfaction grade.

- Provides a high bearing capacity on the esplanade increasing the lifetime of the soil.

- Improving soils characteristics, really important feature due to the current restrictions with the use of loans and landfills.

- Savings in materials transportation.





CONTINUOUS INVESTMENT IN MACHINERY



Capital reinvestment policy:
in own work tools and
machinery

elmasa



Elmasa has capacity for executing all types of earthworks: clearing, excavation, spread and compacted, material transporting , crushing, drilling and blasting, trenching, breakwater placement ...

During these years, the philosophy of the company has been reinvest our incomes in new equipment, not only to have a renewed fleet but to offer customers the newest specialized machinery (trencher, guidance systems ...).

Elmasa has a large number of different types and sizes of machines that guarantee the versatility to meet the needs of all theirs customers.

MACHINERY

Excavation



■ Excavation

- Wide and Compact
- Drilling and Blasting
- Trenching Equipment
- Crushing
- Auxiliary Equipment



Machinery List

HYDRAULIC EXCAVATORS	MODEL	WEIGHT
CATERPILLAR	385 C	91T
CATERPILLAR	375	81T
CATERPILLAR	365 B II	72T
CATERPILLAR	345 B II	50T
CATERPILLAR	345 C	51T
CATERPILLAR	330 C	38T
CATERPILLAR	330 D	37T
CATERPILLAR	325 C	32T
CATERPILLAR	325 D	31T
CATERPILLAR	322 LN	25T
VOLVO	360	35T
KOMATSU	450	50T
KOMATSU	340	35T
FIAT HITACHI	450	45T

HYDRAULIC EXCAVATORS WITH HAMMER	MODEL	HAMMER
VOLVO	450	KRUPP 2.500
FIAT HITACHI	400	KRUPP 2.300
VOLVO	360	KRUPP 2.300
CATERPILLAR	345 B II	ATLAS COPCO 4200
CATERPILLAR	345 C	ATLAS COPCO 4200
CATERPILLAR	330 C	KRUPP 2.300
CATERPILLAR	330 C	ATLAS COPCO 4200
CATERPILLAR	330 D	ATLAS COPCO 4200
CATERPILLAR	325 C	KRUPP 1.500 M
CATERPILLAR	325 B	PINZA DEMOL. PRIMAR FR-20/HS
CATERPILLAR	325 D	CAZO CRIBADOR
CATERPILLAR	325 D	KRUPP 1.500 M
FIAT HITACHI	280	KRUPP 1.500 M
FIAT HITACHI	280	KRUPP 1.000 M
KOMATSU	290	KOROTA

MOBILE EXCAVATORS	MODEL	WEIGHT
CATERPILLAR	322 C	25T
CATERPILLAR	322 C	25T HAMMER
CATERPILLAR	320 C	20T
CATERPILLAR	318 C	18T
AKERMAN	EW 200	20T
AKERMAN	EW 200	22T HAMMER
VOLVO	170	20T
VOLVO	170	20T HAMMER

MINI EXCAVATORS	MODEL	WEIGHT
CATERPILLAR	302	3T
CATERPILLAR	302	HAMMER

DUMPERS	MODEL
ARTICULED DUMP TRUCKS VOLVO	A 35 6x6 (24m ³)
ARTICULED DUMP TRUCKS VOLVO	A 40D 6x6 (28m ³)
ROCK TRUCKS CATERPILLAR	773 E (36m ³)
ROCK TRUCKS CATERPILLAR	773 F (37m ³)

MACHINERY

Wide and Compact

GPS and 3D equipment



Excavation

■ **Wide and Compact**

Drilling and Blasting

Trenching Equipment

Crushing

Auxiliary Equipment



Machinery List

WHEEL LOADERS	MODEL	WEIGHT
CATERPILLAR	980 H	32T
CATERPILLAR	972 H	26T
CATERPILLAR	966 G II	24T
CATERPILLAR	950 G II	18T
CATERPILLAR	938 G II	15T
VOLVO	180 E	30T
VOLVO	L70	13T

CRAWLER LOADERS	MODEL	WEIGHT
CATERPILLAR	963	20T

CRAWLER TRACTORS	MODEL	WEIGHT
CATERPILLAR	D-6H	20T
CATERPILLAR	D-6R II	20T
CATERPILLAR	D-6R III	21T
CATERPILLAR	D-7H	27T
CATERPILLAR	D-7R II	30T
CATERPILLAR	D-8R	37T
CATERPILLAR	D-8T	38T
CATERPILLAR	D-9H	51T
CATERPILLAR	D-10N	65T
CATERPILLAR	D-11N	107T

MOTOR GRADERS AND COMPACTORS	
MOTOR GRADER CATERPILLAR	16G
MOTOR GRADER CATERPILLAR	14M
MOTOR GRADER CATERPILLAR	14H
MOTOR GRADER CATERPILLAR	140H
MOTOR GRADER CATERPILLAR	CAT 12H or similar models
MOTOR GRADER VOLVO	736
COMPACTORS BOMAG BW 219-D4	PADFOOT
COMPACTORS BOMAG BW 219-D4	
COMPACTORS BOMAG BW 216-D4	
COMPACTORS BOMAG BW 212-D4	

MACHINERY

Drilling and Blasting



Excavation

Wide and Compact

■ **Drilling and Blasting**

Trenching Equipment

Crushing

Auxiliary Equipment



Machinery List

DRILLING

WAGON DRILLS INGERSOLL RAND 660
WAGON DRILLS ATLAS COPCO ROC D-7
WAGON DRILLS TAMROCK DHA-560
WAGON DRILLS TAMROCK DHA-500

MACHINERY

Trenching Equipment



Excavation

Wide and Compact

Drilling and Blasting

■ **Trenching Equipment**

Crushing

Auxiliary Equipment



Machinery List

TRENCHERS

TRENCHING EQUIPMENT TRENCOR T 1060 HDE
TRENCHING EQUIPMENT TRENCOR T 1760 HDE
TRENCHING EQUIPMENT TRENCH-TEC TT 2700
TRENCHING EQUIPMENT TRENCH-TEC TT 2500
TRENCHING EQUIPMENT TRENCH-TEC TT 2000

MACHINERY

Crushing



Excavation

Wide and Compact

Drilling and Blasting

Trenching Equipment

■ **Crushing**

Auxiliary Equipment



Machinery List

CRUSHING EQUIPMENT

- CRUSHING GROUP EXTEC C-12 1.200* 700
- CRUSHING GROUP MILL IMPACTOR PEGSON TRAKPACTOR 428
- SCREENING PLANTS EXTEC TURBOTRAC
- SCREENING PLANTS EXTEC ROBOTRAC
- SCREENING PLANTS EXTEC 55
- PRIMARY MOBILE DRUM SCREENER EXTEC E7

MACHINERY

Auxiliary Equipment



Excavation

Wide and Compact

Drilling and Blasting

Trenching Equipment

Crushing

■ **Auxiliary Equipment**



Machinery List

DUMP TRUCK	MODEL
DUMP TRUCK	3 AXEL
DUMP TRUCK	3 AXEL HEAVY DUTY
DUMP TRUCK	WITH SEMI-TRAILER
DUMP TRUCK	4 AXEL

WATER AND FUEL TRUCK
3 AXEL WATER TRUCK (10.000 l.)
3 AXEL WATER TRUCK (18.000 l.)
FUEL TRUCK (12.000 l.)
FUEL TRUCK (18.000 l.)

CRANE TRUCKS
CRANE TRUCKS 3 AXEL 60T



OPEN TO NEW CHALLENGES

Strategy and actions directed towards making real new opportunities



The capabilities and experience of Elmasa alongside the strategy of consolidation and growth have led the company to take part in international projects of great importance. As part of our expansion and growth plan, we are aiming to develop our international activities as a faithful provider to both Spanish and European multinational companies in the sector.



elmassa

We work nationally and abroad



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elmasa

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