

GELEN
CRUSHING & SCREENING

PRODUCTS CATALOGUE

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ABOUT US

GELEN was established in 1981 with the intention of manufacturing mining, road and construction machineries and plants. With more than 40 years of experience now, GELEN has realized a great number of successful projects in interior and exterior markets and has been a reliable supplier of some of the leading construction companies in Turkey.

The production program of the company consists of complete crushing, screening and washing plants, bulk material conveying and stock-piling plants, screw conveyors, bucket elevators, cement and aggregate silos.

We offer reliable and rational engineering solutions for any aggregate size reduction projects, upgrade existing plants and supply individual machines; always following the technological developments. An after-sales service of field technical assistance, repair, installation and spare parts services for the plants provided by GELEN allowed us to grow consistently and retain existing customers. Our project and customer-oriented philosophy has led to the satisfaction and happiness of our customers.

GELEN

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JAW CRUSHERS

CK SERIES

GELEN jaw crushers are satisfactorily used to crush hard and abrasive materials in a wide range of applications including:

- Quarry
- Recycling
- River Material
- Industrial

High Durability

- Cast steel pitman designed for maximum strength with minimum weight.
- Stress-relieved main frame.
- Cast steel frame bearing housing with four equal size bearings.

High performance

- Symmetrical crushing chamber
- Large flywheel
- Robust eccentric shaft design with high swing

Low operational costs

- Optional central lubrication
- Reversible jaw plates
- Adaptable motor base



CK series jaw crushers are your reliable partner in the toughest feed conditions. With a wide range of size selection GELEN jaw crushers offer you the most productive and cost-efficient solution for your primary and secondary applications. Easy setting, safe and quick maintenance increase your production efficiency to a maximum level.



	CK SERIES PRIMARY JAW CRUSHERS									SECONDARY JAW CRUSHERS		
	CK638	CK855	CK965	CK1075	CK1185	CK1395	CK1411	CK1612	CK3055	CK920	CK1338	CK1465
INLET OPENING mm	600x380	800x550	900x650	1000x750	1100x850	1250x950	1400x1100	1600x1200	1400x750	900x200	1300x380	1400x650
MAX. FEED SIZE mm	340	490	580	680	760	850	990	1080	680	180	340	540
OUTLET SETTING mm	40 - 150	50 - 170	60 - 170	70 - 200	75 - 200	100 - 250	125 - 275	150 - 300	75 - 200	30 - 90	50 - 125	75 - 175
OUTPUT mtpH	25 - 120	75 - 250	80 - 260	150 - 420	180 - 460	270 - 645	400 - 850	500-1000	240-600	20 - 75	40 - 120	200 - 550
POWER kw	30	55	75	110	132	160	200	250	160	30	55	132
WEIGHT kg	6,300	9,800	13,400	21,000	33,000	43,000	54,500	74,200	31,000	5,600	16,900	29,900

IMPACT CRUSHERS

HORIZONTAL SHAFT IMPACT CRUSHERS

GELEN impact crushers provide high performance in all stages of crushing with their unique designs. The robust rotor production, high quality wear parts and well engineered chamber design are the key factors of the GELEN quality in impact crushers.

PDK series impact crushers are used in the first stage crushing of the soft to medium- hard quarry minerals. With ability to process a wide range of materials they offer a high reduction rates in one step with an excellent product grading and increased quality.



PDK SERIES PRIMARY HORIZONTAL IMPACT CRUSHERS

	PDK1210	PDK1313	PDK1415	PDK1518	PDK1620
INLET OPENING mm	1040x900	1340x1200	1540x1300	1840x1400	2040x1600
MAX. FEED SIZE mm	800	900	1000	1100	1300
ROTOR DIAMETER mm	1200	1300	1400	1500	1600
OUTPUT MTPH	150 - 250	250 - 400	300 - 600	400 - 750	500 - 900
POWER KW	160	200	250	315	355
WEIGHT KG	14,000	18,200	22,000	34,600	41,800

SDK series secondary impact crushers are used for the crushing of soft to medium- hard quarry minerals. With ability to process a wide range of materials they offer a high degree of crushing in one step with an excellent product grading and increased quality.

SDK SERIES SECONDARY HORIZONTAL IMPACT CRUSHERS							
	SDK1210	SDK1213	SDK1315	SDK1418	SDK1420	K36	K35
INLET OPENING mm	1040x800	1340x800	1540x900	1840x940	2040x980	1000x280	1500x280
MAX. FEED SIZE mm	400	500	600	650	700	200	200
ROTOR DIAMETER mm	1200	1200	1300	1400	1500	1535	1535
OUTPUT mtph	100 - 250	150 - 300	200 - 450	250 - 520	300 - 600	75 - 130	175 - 250
POWER kW	160	200	250	355	400	90	160
WEIGHT kg	9,800	12,700	17,200	24,000	28,300	12,900	22,000



TDK series impact crushers are third stage impact crushers suited to crush soft to medium-hard materials. Thanks to the versatile design of the breaker plates a wide range of highly cubical final product grading can be obtained. TDK series crushers are the right choice especially when higher percentage of mechanical sand is demanded.

TDK SERIES PRIMARY IMPACT CRUSHERS					
	TDK1215	TDK1212	TDK1285	TDK1260	HTK1010
INLET OPENING mm	330x1540	230x1240	230x890	230x640	300x1040
MAX. FEED SIZE mm	120	80	80	80	40
ROTOR DIAMETER mm	1200	1200	1200	1200	1000
OUTPUT TPH	150 - 250	100 - 150	70 - 100	40 - 70	80 - 100
POWER KW	315	250	160	110	200
WEIGHT KG	20,600	16,500	10,500	7,200	6,000

IMPACT CRUSHERS

VERTICAL SHAFT IMPACT CRUSHERS

VSI is mainly a third or fourth stage crusher. These impact crushers combine crushing and grinding processes especially for all abrasive, brittle and moist materials. Closed rotor VSI's use rock-on-rock impact crushing system which means that the rock fed into the machine crushes itself. This allows economical and high quality solution for the production of concrete, asphalt and base mixtures.

VSI SERIES VERTICAL SHAFT IMPACT CRUSHERS				
	VSI900-CR	VSI800-CR	VSI700-CR	VSI900-OR
ROTOR DIAMETER mm	900	800	700	900
MAX. FEED SIZE mm	50	40	40	120
ROTOR SPEED m/s	45 - 65	45 - 65	45 - 70	40 - 60
OUTPUT TPH	250 - 350	115 - 185	50 - 100	240 - 280
POWER KW	320 - 500	220 - 264	120 - 150	320 - 500
WEIGHT KG	13,600	8,900	6,800	13,800

**THE ROBUST ROTOR PRODUCTION, HIGH
QUALITY WEAR PARTS AND WELL
ENGINEERED CHAMBER DESIGNS.**

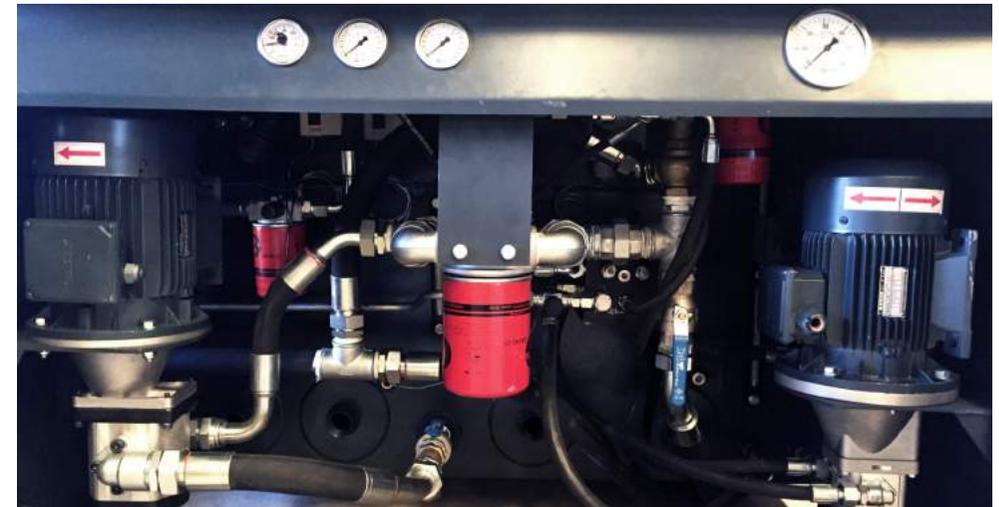


CONE CRUSHERS

GHC SERIES CONE CRUSHERS

Gelen cone crushers reflect the power and ease of operation of hydraulic type cone crushers. Excellent performance in secondary and tertiary crushing operations. Hydraulic setting system and different chamber options gives an optimized solution. They can be selected for both stationary and mobile plants.

GHC SERIES CONE CRUSHERS						
	MOTOR kW	CAPACITY m ³ /h	CLOSE SIDE SETTING mm	MAX FEED SIZE mm	THROW RANGE mm	CONCAVE TYPES
GHC45	200	60-300	10 - 45	45 - 220	16 - 44	F, M, EC



VIBRATING SCREENS

The vibrating screens consist of a screen body, a vibrator mechanism, a drive assembly and spring suspension units mounted on a frame or support structure

The screen body is supported by coil springs which makes the body bounce freely. The vibrating motion thus is given by counterweights built on the shaft. Depending on their shaft location, GELEN two bearing inclined screens have two types:

- STE Series Circular motion screens and ITE Series Grizzly screens with center mounted counterweights.
- ELTE Series Elvar screens with off center counterweights which provide different stroke patterns on the deck.

The ETE Series Elliptical Vibrating Screens are horizontal type screens with triple shaft geared together resulting in elliptical motion. Elliptical vibrating screens give better results when the feed material is sticky or flaky. Also depending on the application, the shape and the angle of the ellipse can be adjusted.





VIBRATING SCREENS

STE SERIES INCLINED SCREENS

STE inclined screens are engineered to perform from the coarsest to the finest separations in aggregate plants. The shaft is positioned at the center of gravity of the screen resulting in a circular uniform motion at all points of the screen.

VERSATILITY

They are so versatile that they can be adjusted for wet screening, washing and rinsing purposes. To benefit to maximum in every application the stroke, inclination angle and the rotational speed can be set.

STE SERIES INCLINED SCREENS						
	MAIN DIMENSIONS mm		WEIGHT KG			POWER KW
	WIDTH	LENGTH	2-DECK	3-DECK	4-DECK	
STE2470	2400	7000	14,500	-	-	30
STE2470	2400	7000	-	16,900	19,600	37
STE2460	2400	6000	12,600	-	-	22
STE2460	2400	6000	-	15,400	18,500	30
STE2060	2000	6000	10,500	-	-	18.5
STE2060	2000	6000	-	13,700	14,600	22
STE2050	2000	5000	11,400	-	-	15
STE2050	2000	5000	-	12,200	13,800	18.5
STE1650	1600	5000	8,100	8,800	9,500	15
STE1640	1600	4000	6,600	7,000	-	11
STE1240	1200	4000	4,200	4,700	5,200	7.5
STE1030	1000	3000	2,300	2,500	-	5.5
STE1025	1000	2500	2,100	-	-	4
STE1020	1000	2000	1,550	-	-	3

VIBRATING SCREENS

ITE SERIES GRIZZLY SCREENS

Grizzly scalpers are specially designed for heavy duty applications due to bigger top size material coming from primary crushing. Top decks are equipped with grizzly bars or specially perforated wear and abrasion steel plates. Stronger frame structure is the key element for a long lasting high performance of GELEN scalpers.

MAXIMUM PRODUCTIVITY AND DURABILITY IN ALL THE STAGES OF SIZE REDUCTION APPLICATIONS.

ITE SERIES GRIZZLY SCREENS						
	MAIN DIMENSIONS mm		WEIGHT KG			POWER KW
	WIDTH	LENGTH	2-DECK	3-DECK	4-DECK	
ITE2050	2000	5000	9,200	-	-	22
ITE1850	1800	5000	8,500	9,550	-	22
ITE1650	1600	5000	8,100	8,800	-	18.5
ITE1440	1400	4000	4,200	4,700	-	15
ITE1240	1200	4000	2,300	2,850	-	11
ITE1230	1200	3000	1,800	2,000	-	5.5
ITE1225	1200	2500	1,650	1,900	-	5.5



VIBRATING SCREENS

ETE SERIES HORIZONTAL SCREENS

The ETE Series Elliptical vibrating screens are of horizontal type screens with triple shaft geared together resulting in elliptical motion which is the most efficient screening motion in the industry. The ability to change the shape and angle of the ellipse allows you to best suit your screening needs from scalping to fine screening. These screens are available in wet screening and washing applications.

HIGH PERFORMANCE IN ALL STAGES OF SCREENING WITH THEIR UNIQUE DESIGNS.



ETE SERIES HORIZONTAL SCREENS

	MAIN DIMENSIONS mm		WEIGHT KG			POWER KW
	WIDTH	LENGTH	2-DECK	3-DECK	4-DECK	
ETE1848	1800	4800	8,900	10,600	12,400	22-30
ETE2260	2200	6000	13,800	14,800	15,700	37-45
ETE2561	2500	6100	14,700	15,700	-	45

**THE LATEST TECHNOLOGICAL ADVANCES IMPLEMENTED FOR
BETTER SCREENING AND SCALPING OPTIONS.**



FEEDING SYSTEMS

GELEN offers you a wide range of feeders for different feeding applications. Safe and easy handling, range of wear protection, reduced maintenance and operating costs are some of many advantages.

Heavy duty grizzly primary feeders designed for high capacities and long term use, separate pan feeder and a double-deck vibrating screen combination for efficient scalping applications, vibration free heavy duty hydraulic reciprocating plate feeders with multiple feed rate adjustments all come with a wide range of sizes to best suit your primary feeding requirements.

Also a wide range of pan feeders for secondary and tertiary stage feeding with base mounted and suspended installations offer reliable and low cost solutions.





FEEDING SYSTEMS

TB SERIES VIBRATING FEEDERS

Smooth, uniform feeding of the material is crucial for the efficiency in a crushing plant. Having this in mind, GELEN vibrating feeders are designed to give the best feeding solutions with different sized crushing equipment. High feeding capacity and success with hard and abrasive materials make GELEN feeders ideal for the customer.

Designed for the toughest conditions, GELEN Grizzly Feed Screens offer the most efficient solution matching GELEN primary vibrating feeders. Easily adjustable speed and stroke gives maximum control over the feed material. Many applications need special configurations in grizzly design. GELEN offers high capacity solutions for every application. Practical change of grizzly bars minimizes downtime thus increasing the overall efficiency during service life.

TB SERIES VIBRATING FEEDERS			
	MAIN DIMENSIONS mm		POWER KW
	WIDTH	LENGTH	
TB615	600	1500	2x0.9
TB817	800	1700	2x1.2
TB917	900	1700	2x1.2
TB920	900	2000	2x2.6
TB930	900	3000	2x5.5
TB940	900	4000	2x7.1
TB9540	950	4000	2x7.6
TB9555	950	5500	2x7.6
TB1020	1000	2000	2x2.6
TB1255	1200	5500	2x9.8
TB1320	1300	2000	2x2.6
TB1335	1300	3500	2x8.5
TB1355	1300	5500	2x11.5
TB1445	1400	4500	2x11.5
TB1455	1400	5500	2x13

FEEDING SYSTEMS

BE SERIES GRIZZLY FEED SCREEN

Designed for the toughest conditions, GELEN Grizzly Feed Screens offer the most efficient solution matching GELEN primary vibrating feeders. Easily adjustable speed and stroke gives maximum control over the feed material. Many applications need special configurations in grizzly design. GELEN offers high capacity solutions for every application. Practical change of grizzly bars minimizes downtime thus increasing the overall efficiency during service life.

**WIDE RANGE OF FEEDERS FOR DIFFERENT FEEDING APPLICATIONS.
SAFE AND EASY HANDLING, RANGE OF WEAR PROTECTION, REDUCED MAINTENANCE AND OPERATING COSTS.**

BE SERIES GRIZZLY FEED SCREENS			
	MAIN DIMENSIONS mm		POWER KW
	WIDTH	LENGTH	
BE1525	1500	2500	2x8
BE1423	1400	2300	2x5.3





FEEDING SYSTEMS

RB SERIES RECIPROCATING FEEDERS

Materials introduced by means of a hopper are unloaded from the feeder by a reciprocating motion. Back and forth motion frequency can be adjusted. With the forward movement the material flow begins at the transfer point, with the backward movement the feeding material supports itself against the rear wall of the bunker and feeds the material in the direction of the transfer point.

AF SERIES APRON FEEDERS

Offered in a wide range of widths and lengths, GELEN apron feeders are designed for all types of heavy duty applications and process requirements. Controlled feeding of ROM material supplies desired capacities from dump hoppers and product stockpiles to the product handling equipment at a proper flow rate and maximum efficiency. Heavy head shaft is machined from high grade hot rolled steel. Tail-end tensioning is adjusted by hydraulic jacks and fixed by take-up screws. Tractor chains, bolted sprockets, carrying truck idlers and shaftless traction wheels are all standard heavy duty equipment used in the earth-moving equipment industry. Cast steel pans reinforced with packers in the middle run in close proximity to the impact rails. High Mn content pans are optional for XHD applications where abrasion is a major concern. Full length heavy duty impact rails are fitted to the frame in a close proximity to the pans to prevent permanent distortion of the pans.

FEEDING SYSTEMS

WB SERIES WOBBLER FEEDER

The WB series wobbler feeders are designed for feeding oversized material at a controlled rate and scalping out the fines. This is accomplished by the rotation of elliptical bars 90 degrees apart, one bar tip in a vertical and the next bar tip in a horizontal position. All bars rotate at the same rate of speed, moving the loaded material along the bars and causing the separation of the fines, mud and dirt through the constant gaps in between.

WB SERIES WOBBLER FEEDERS

MAIN DIMENSIONS mm

POWER KW

	WIDTH	LENGTH	
WB1630	1600	3000	37
WB1430	1400	3000	37



**WIDE RANGE OF FEEDERS FOR DIFFERENT FEEDING APPLICATIONS.
SAFE AND EASY HANDLING, RANGE OF WEAR PROTECTION, REDUCED MAINTENANCE AND
OPERATING COSTS.**



WASHING SYSTEMS

HY SERIES SCREW CLASSIFIERS

GELEN screw classifiers are used for washing and dewatering sand. It is an inclined conveyor which is composed of a tank in which the sand is washed and a spiral shaft which transports the washed sand up the incline to the chute during which the dewatering happens. GELEN has both the one spiral and the two spiral designs with different length selections suitable for different output needs.

HY SERIES SCREW CLASSIFIERS						
		MAIN DIMENSIONS	OUTPUT TPH		POWER KW	WEIGHT KG
		mm	0-3 mm	0 - 7 mm		
SINGLE	HY1100	Ø800x8000	75	100	11	4,500
	HY880	Ø800x8000	75	100	11	4,500
	HY660	Ø600x6000	30	45	5.5	2,500
	HY880	Ø800x8000	30	45	5.5	2,500
	HY1100	Ø800x8000	30	45	5.5	2,500
DOUBLE	HY1100-2	Ø1000x10000 - 2	110	160	2x11	6,500
	HY880-2	Ø800x8000 - 2	110	160	2x11	6,500
	HY660-2	Ø600x6000 - 2	55	85	2x5.5	3,500
	HY550-2	Ø500x5000 - 2	40	60	2x4	2,700

**UNIFORM CLEAN PRODUCT.
EFFECTIVE CLASSIFICATION AND SEPARATION
BY SIZE.**



WASHING SYSTEMS

GSP SERIES

SAND PROCESSING PLANTS

GELEN compact sand plants are static sand recovery units with hydrocyclone designed to be highly efficient to produce a very low moisture content saleable product. The plant is a complete unit with a slurry pump to direct the sump material to hydrocyclones which clean the material from clay, silt and slime with the use of centrifugal force. Pumps and cyclones are equipped with rubber liners for longer life. The high frequency linear motion dewatering screen comes with modular PU decks ensuring an ease of use. The application areas are industrial sand production, quarry fines optimization, higher quality asphalt and concrete sand production.

SAND PROCESSING PLANTS								
MODEL	CAPACITY	SCREEN	Screen Size mm	Screen Motor	Cyclone Size	Pump Size mm	Pump Motor	Feed Volume m ³ /h
GSP-1	100	GDW68	1800 x 2400	2 x 5,5	660	250/200	37	300 - 350
GSP-2	200	GDW513	1500 x 4000	2 x 6,1	2 x 660	250/200	55	500 - 550
GSP-3	250	GDW613	1800 x 4000	2 x 7,5	2 x 660	250/200	75	550 - 600
GSP-4	300	GDW716	2100 x 4900	2 x 11	2 x 840	300/250	75	700 - 750





MIXING PLANTS

MP SERIES CONTINUOUS MIXING PLANTS

The continuous pugmill includes two counter rotating shafts with paddles, along with timing gears that provide optimum speed to obtain the quality mix desired. Inside the mixer is a spray bar with nozzles. Pugmill continuous mixing plants come with a feed system with minimum 3 feed bins with dosing belts to provide controlled blending and automatic proportioning ensures your end product is consistent. The optional cement The applications of pugmill mixers include but are not limited to Subbase (HMT), Aggregate Base (AB), Cement Treated Base (CTB). The continuous mixing plants come in 2 sizes which can be both fixed or mobile. Real-time monitors show the actual motor loads, blending rate and feed rates of each material depending on the project specific mix recipes.

MP SERIES CONTINUOUS MIXING PLANTS					
	METERING FEED HOPPERS m ³	CONTINUOUS MIXER TYPE	BASE COURSE SILO m ³	OUTPUT TPH	TOTAL INSTALLED POWER KW
MP500	4x20	SK1430	40	450 - 550	97
MP350	4x15	SK1226	25	300 - 400	80

MATERIAL HANDLING

When it comes to material handling GELEN offers a wide range of products for each specific application from aggregates to salt. The equipment range is shortly;

- Radial Conveyors
- Portable Stacker Conveyors
- Portable Feed Systems
- Tunnel Feed Systems
- Loading/Unloading Systems
- Overland Conveyors

The modular design of gelen belt conveyors offer easy setup and maintenance in the work site. The welded construction of modules gives a reliable conveying experience. Impact rollers and bars are used to increase the service life of the belt absorbing the energy generated by the impacting material. Highly efficient pu belt cleaners and sealing systems are standard gelen conveying solutions.

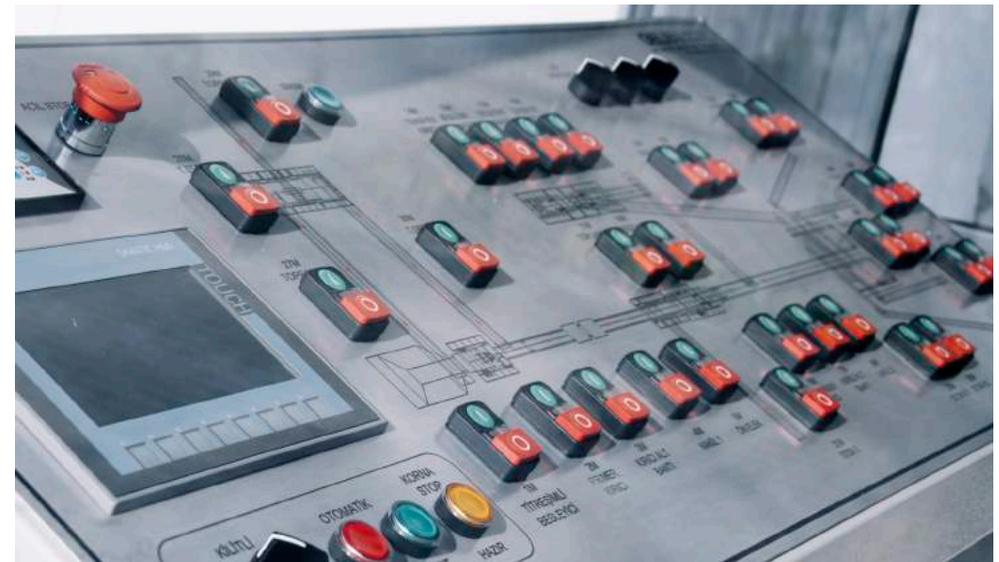


AUTOMATION

The control room is where all the process is controlled and monitored. Depending on the site conditions and the customers needs GELEN finds a unique solution to maximize the uptime for every single crushing plant project.

Some of the features are:

- Process safety controls
- Collection of production data • Malfunction records
- Current control
- Frequency control
- Sequential start/stop



MOBILE SOLUTIONS

When it comes to short-term projects, easy setup and quick operation are key elements. Having this in mind GELEN has realized hundreds of mobile and semi mobile units throughout the years on rubber wheels.

Most of GELEN crushing and screening equipments can be mounted on a mobile chassis within the regulatory limitations.



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EXCELLENCE BY EXPERIENCE



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