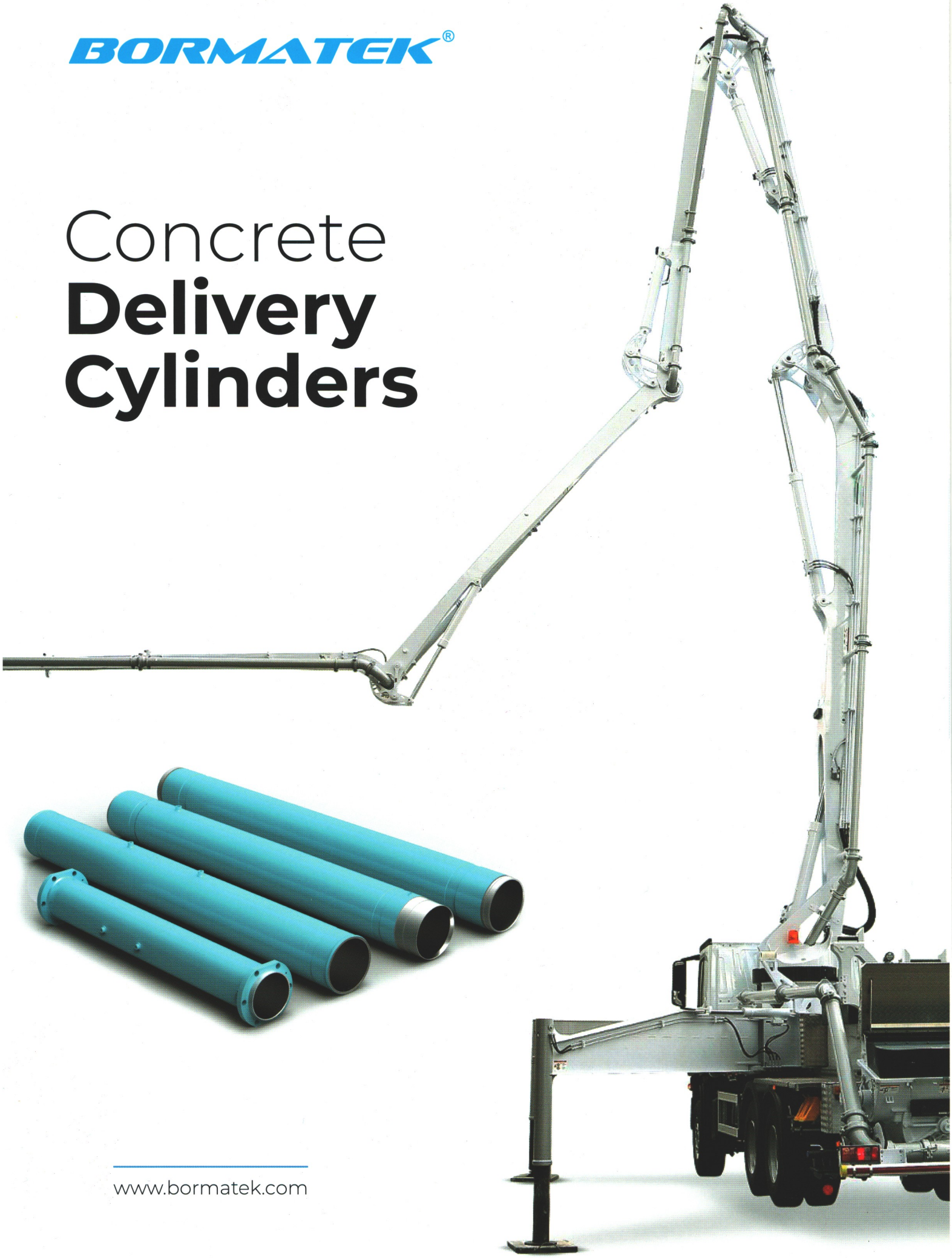
BORMATEK®

Concrete **Delivery Cylinders**



www.bormatek.com

About
Our Company

Bormatek has increased its service quality also by developing its management metality in parallel with the growth it has made with investments.

It started to give hard chromium plating service at the plating atelier that built with modest investment. It has become a favorite company in a short time by gradually performing the growth that put as a beginning target.

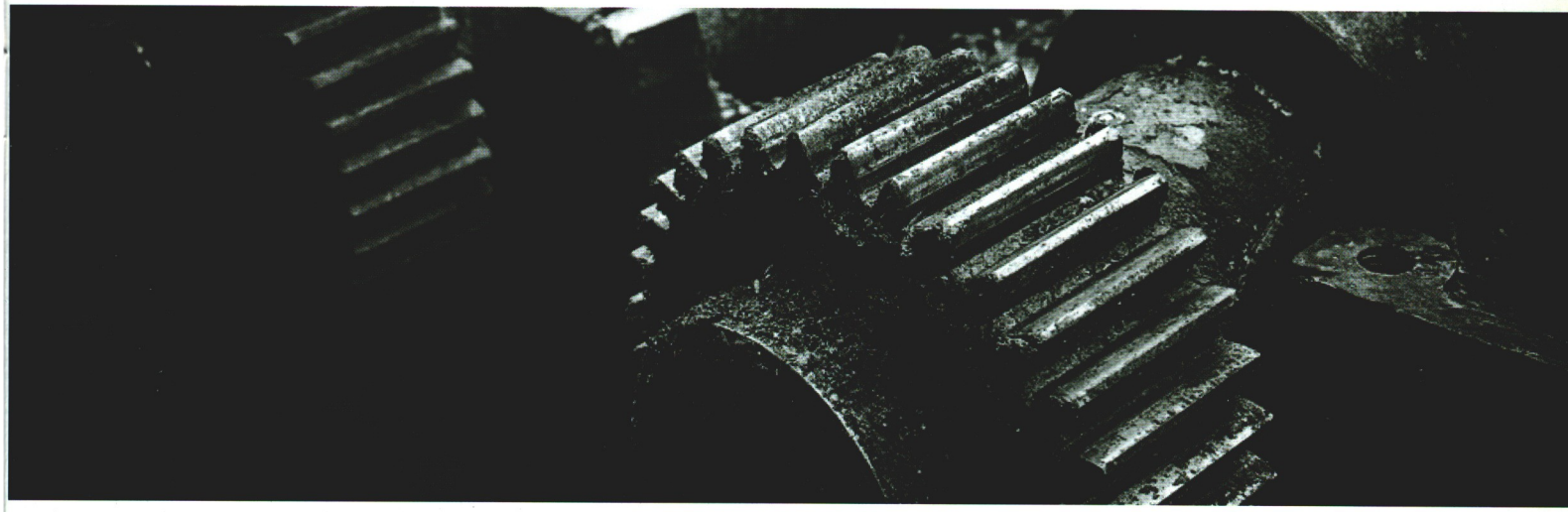
While hard chromium plating performance was continuing, cylindrical grinding section, which intended for processing the parts of machines such as planted shaft and roller, was established. Planting and grinding operations that complete each other increased productivity of work.

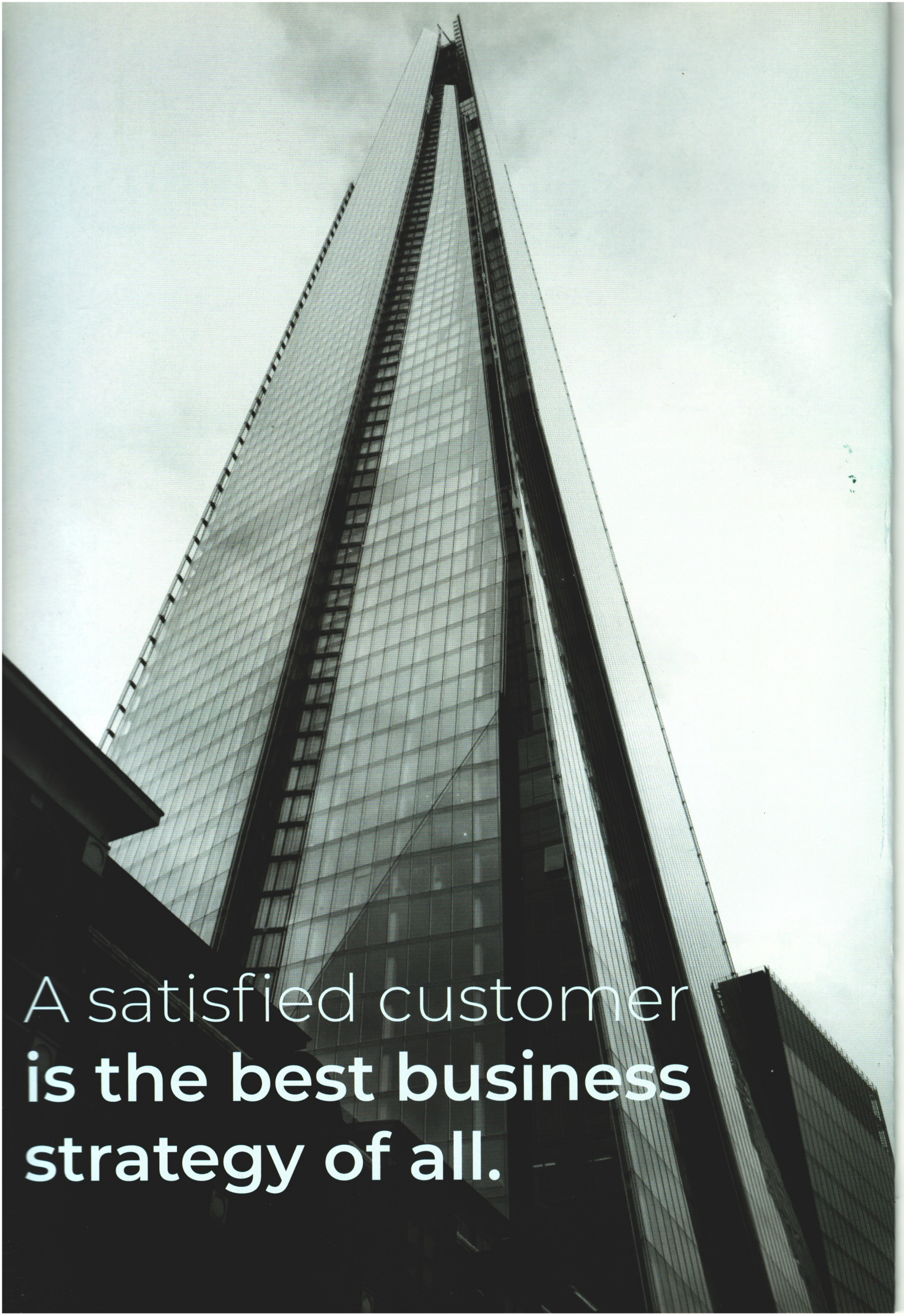
After foundation of Bormatek Co. Ltd. in 2007, studies to increase the existing capacity were started. Increase of the capacities of hard chromium plating and grinding was provided with the move of reorganization. A new machining section, which would carry out the manufacturing of various machine parts, and measuring/control section was established.

Facility was prepared with machine tools, grinding machines, CNC lathes on various types. As a result of these initiatives, manufacturing of planted machine parts has ranked among the important operation issues of Bormatek. Today, it keeps on its manufacturing by performing the standards of BS EN ISO 9001:2015

Aimed to work as product focused at the beginning of 2008, as manufacturing Concrete Pump Spare Parts, it provided diversification on products and broad stock in accordance with variable and developing demands. As strongly taking its market position in a short time, it has persistently developed its machinery with constant innovator and investor sense.

Bormatek has reached an assertive position on concrete delivery cylinder, wearing parts and hydraulic cylinder manufacturing by increasing its honing capacity at the beginning of 2011 lastly and deep-hole drilling machine has become a part of the operation.




A satisfied customer
is the best business
strategy of all.



Vision & **Mission**

Build a technologically advanced company which would envisage in building new and better technologies for its customers.

It is our duty to be with our customers after sales and to look after our products. Our main target is to protect the image that we have on quality and service; undertaking management on the fields of operation to reach this target, moving at the market by developing our leading position is our most essential principal.

Quality of our products and services begin with the quality of our employees. Bringing the best personnel and qualified man power to our company and employing them is the way that we determined to provide the continuance of Bormatek for generations.

Our Vision

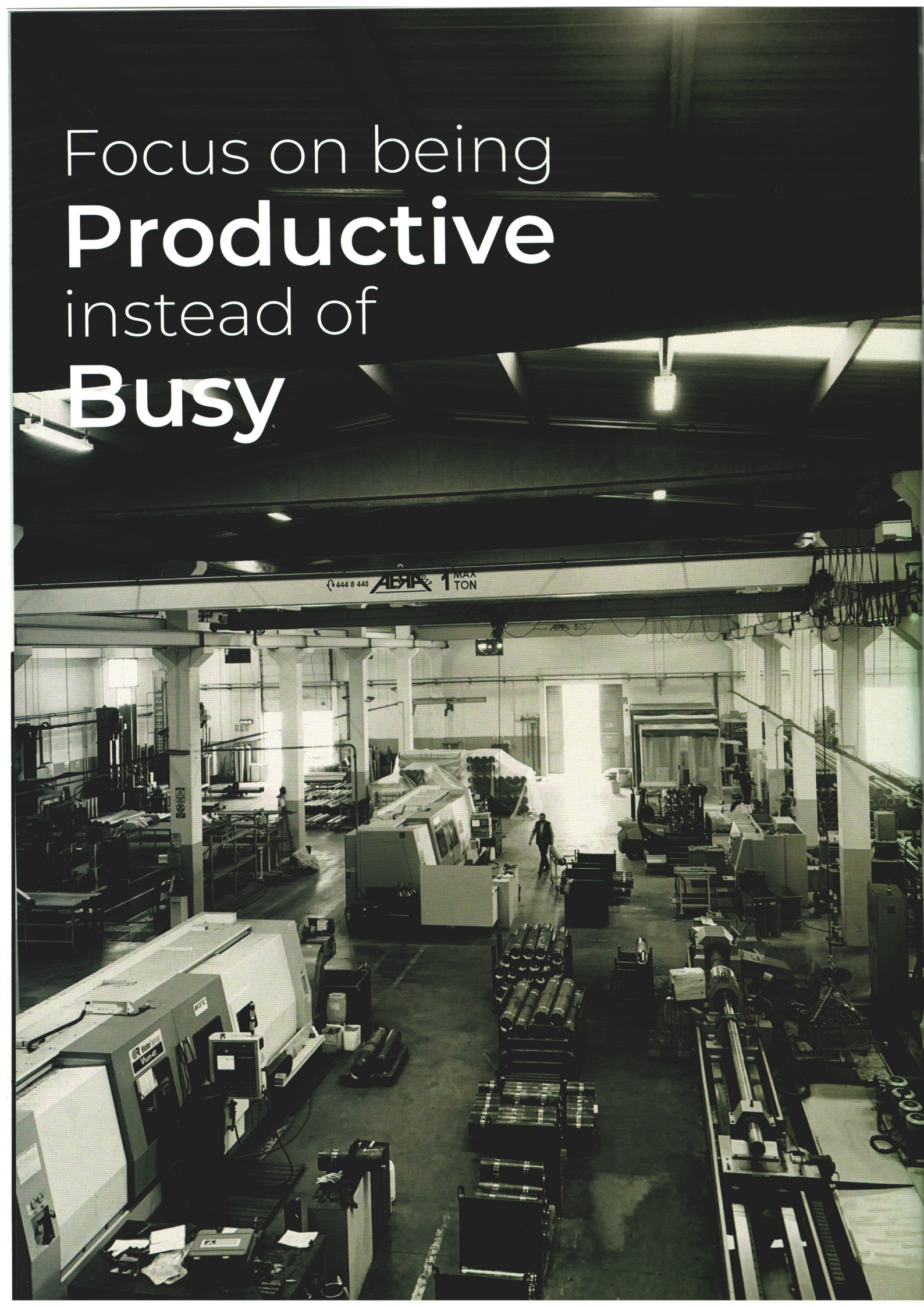
The vision of Bormatek is to continue the heritage of our Company and be a premier Turkish manufacturer of top quality products. We dedicate ourselves to be the supplier of choice when our type of products are being sought. This vision will be accomplished by sharing the responsibilities of planning and decision making with all of our employees.

Bormatek will strive to maintain the image it has developed over the many years with its suppliers, employees and community as a company of excellence. Carrying out the required investments so as to offer better service ever; making use of the profit that is the right of the capital on activities that contribute the economic and social development of our society and our employees is one of our main principles.

Our Mission

Our mission is to produce and continually develop quality products at a competitive price while fostering a climate where environmental technologies can thrive. We will always strive to service our customer with the utmost integrity, and to their complete satisfaction. It is our goal to ensure our mission by continuous self improvement, growth in our operations and employees; while maintaining profitability to the benefit of our customers, employees, and community. All employees will work together in combining their efforts and skills to ensure our mission and goals are fulfilled in a courteous manner.

Acting with good will and consideration, obeying the laws and moral rules with the intent of providing mutual benefits in all our relations is our principle.


Focus on being
Productive
instead of
Busy

All In-House **Processes**



Machining

1

Along with its hard chrome plating technology which has been developed since its foundation, it has made investments by following the technology in metal processing and achieved high capacity and quality in metal processing. All of our products have traceability. We are behind of our quality, from the installation until the end of its life time.

Hard Chrome Plating

2

Bormateks knowhow in hard chrome plating is continually being improved by the companys engineers. We are the leader of this process in our Country. We are working as a voluntary consultant of Turkish companies, about hard chromium plating in Turkey, for many years. Our hard chromium plating is firm, flexible, optimum and ecofriendly.

For this reason, we dont have minimum quantities for your orders, we can manufacture from one pieces up to thousands of pieces with the best leading timeand quality.

Quality

3

We can control the mechanical, physical and chemical properties of our products. The quality control department performs 100% quality control in all processes of production. Being a preferred supplier of our customers is the key to our continuous improvement philosophy. Bormatek has successfully passed the audits of very known brands of Concrete Machines.

Properties of **Hard Chromium**

CHROMIUM IS a greyish-white metal, hard and brittle and capable of being polished to a very high lustre, in which condition it seems to assume a bluish tinge.

The characteristics of chromium in the metallic state are follows :

atomic weight	52·01
atomic number	24
melting point	1850°C
coef. of expansion	8·1 X 10-6
resistivity	13 microhm/cm³
crystal form	body centred cube
heat conductivity	0·165 cal/s cm³ °C at 18°C 51 W/m °C
magnetic properties	paramagnetic
Youngs modulus	15 X 106 lb/in2 10 X 103 h bar (as deposited)



Hard chromium deposits are obtained by the electrolysis of chromic acid solutions, and this basic source for the electrodeposited metal is obtained from chrome iron ore (Cr2, O3, Feo). The ore is converted to the chromate by roasting with potassium carbonate and lime; treating with sulphuric acid then produces potassium dichromate, this is concentrated and when excess sulphuric acid is added, chromic acid is precipitated.

Electrodeposits of hard chromium usually have a hard lustrous appearance, are not affected by heat up to 400°C (750°F) to any great extent, they resist corrosion well and are attacked by few substances.

The main properties for which hard chromium is deposited are:

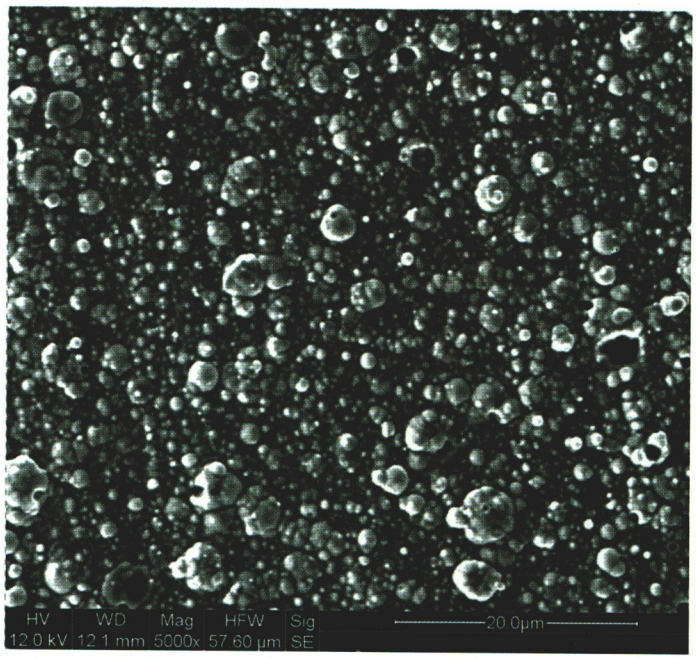
1. Hardness and resistance to wear
2. Resistance to corrosion and heat
3. Low coefficient of friction and non-adhesive properties
4. Appearance and decorative properties
5. Paramagnetic properties

Hardness and resistance to wear

The extreme hardness of electrodeposits of chromium has led to the adoption of term hard chromium or hard chrome in industry.

Multi-Layered **Hard Chromium**

The special feature of the multi-layered hard chromium plating process lies in the multi-layered construction of the hard chrome coating.



The defined intermediate processing ensures that the crystalline structure of the MHC coating is interrupted, resulting in the formation of layers. In this way, continuous macro-cracks from the surface to the base material of the part are excluded.

The particular advantage of the double or triple hard chromium plating is its very high corrosion resistance. Multi-layered hard chromium coatings are utilised in printing cylinders, vehicle hydraulics, hydraulic systems in mining and machine construction. Parts that are constantly exposed to liquids, such as chemicals, plastics and salt water, retain their characteristics and functionality with the multi-layered hard chromium coating for over 480 hours in accordance with DIN EN ISO 9227 - NSS (formerly DIN 50021 - ESS).

Technical data:
Minimum coating thickness: 90 µm
Corrosion resistance of the basic material in accordance with DIN EN ISO 9227 - NSS (formerly DIN 50021 - ESS): 480 hours
Wear resistance of the plating (Taber abrasion values with CS 10 rollers; 9.81 N loading after 1,000 r
Evolutions: 1.2 mg
Hardness HV 1: 1,000 ± 50

These hardness figures are not so easy to obtain as might at first be though, the difficulty being that because the figure is calculated on the resistance of the metal to penetration by a suitable body (diamond, ball, etc.), other factors influence an accurate assessment, such as:

(a) Type and shape of the penetrator
(b) Influence of friction, elasticity, etc., and
(c) Thickness of deposit

In practice it is usual to measure the hardness on a Micro Vickers Hardometer machine or similar, and to use as light a load as possible, sometimes as little as 1 kg. The deposit should be at least 0·125mm (0·005 in) thick, preferably 0·25mm (0·010 in) thick, so that no deformation of the base material takes place. With loads of 1 or 2 kg consistent results should be obtained, but these should always be the average of, say, 3 readings.

Honing **Process**



The surface of a honed workpiece. Honing is an abrasive machining process that produces a precision surface on a metal workpiece by scrubbing an abrasive stone against it along a controlled path.

Since honing stones look similar to grinding wheels, it is tempting to think of honing as a form of low-stock removal grinding. Instead, it is better to think of it as a self-truing grinding process.

In grinding, the wheel follows a simple path. For example, in plunge grinding a shaft, the wheel moves in towards the axis of the part, grinds it, and then moves back out. Since each slice of the wheel repeatedly contacts the same slice of the workpiece, any inaccuracies in the geometric shape of the grinding wheel will be transferred onto the part. Therefore, the accuracy of the finished workpiece geometry is limited to the accuracy of the truing dresser. The accuracy becomes even worse as the grind wheel wears, so truing must occur periodically to reshape it.

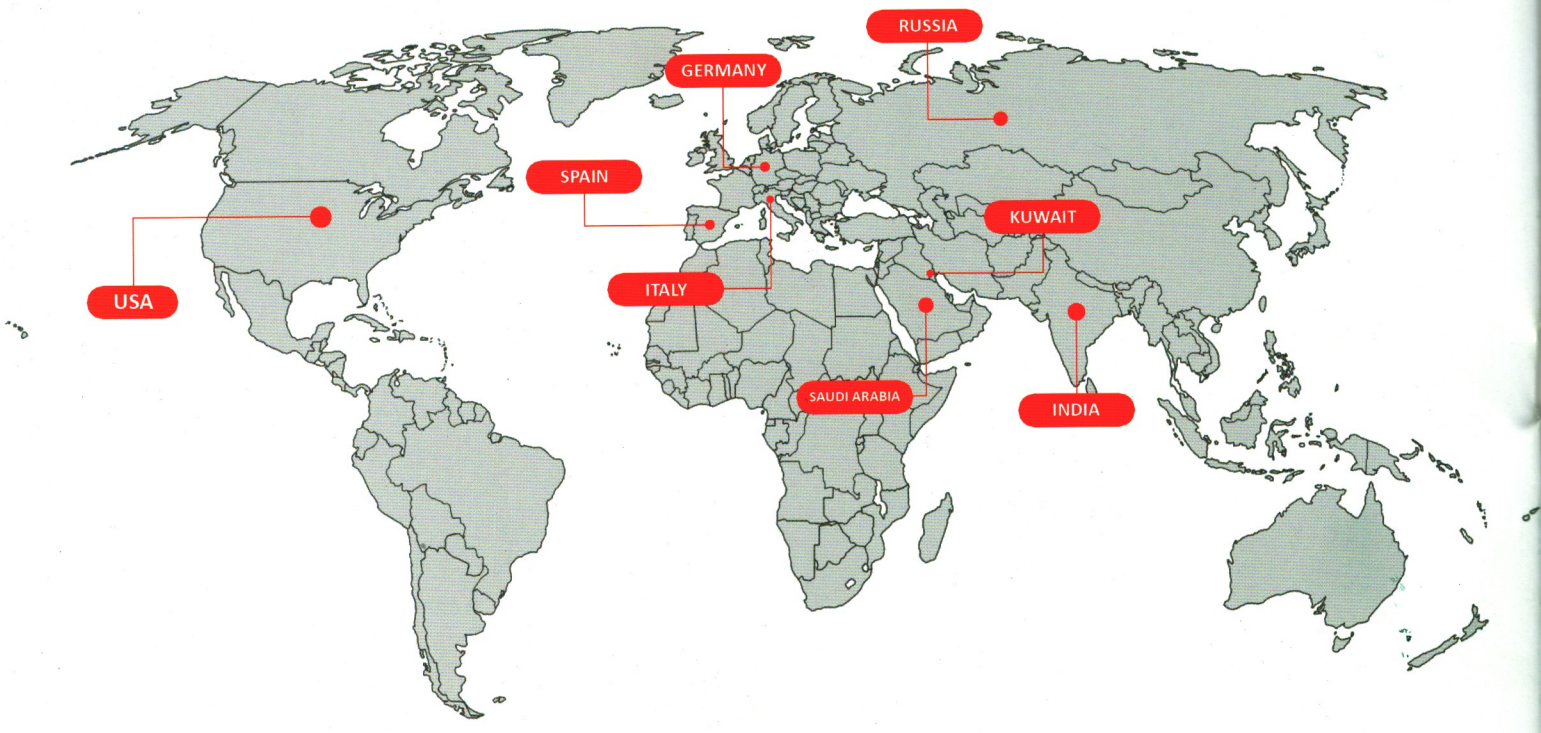
Since honing is a relatively expensive manufacturing process, it can only be economically justified for applications that require very good form accuracy. The improved shape after honing may result in a quieter running or higher precision component. The flexible honing tool provides a relatively inexpensive honing process. This tool produces a controlled surface condition unobtainable by any other method. It involves finish, geometry and metallurgical structure. A high percentage plateau free of cut, torn and folded metal is produced. The flexible hone is a resilient, flexible honing tool with a soft cutting action. The abrasive globules each have independent suspension that assures the tool to be self-centering, self-aligning to the bore, and self-compensating for wear.



Quality & **Management**

High-quality products and services, mass production and the basic forces of competition are price eligibility. Therefore the technical advantage of high technology machinery and equipment, trained and qualified personnel with the highest quality products at the most economical way for the fastest and most offer their customers by producing a major competitor in the sector has become.

- To produce delivery cylinders at the quality standards and delivery times requested by the customer
- To become a leader in Turkey and EU with production of dimensional differences in the delivery cylinders
- To comply with current legal regulations and customer requirements during manufacturing
- To provide the necessary infrastructure and resources to bring out innovative products
- To create the necessary resources, equipment and personnel support to sustain leading of the sector
- To increase the satisfaction of all stakeholders
- To being an eco-friendly business place with quality production
- healthy employee and safe working environment.



Some of The Countries

which we export our products

We love what we do, some might say a bit too much & we bring enthusiasm and quality to every products we produce on.

- USA
- INDIA
- GERMANY
- SPAIN
- ITALY
- RUSSIA
- SAUDI ARABIA
- KUWAIT

Production **Line**





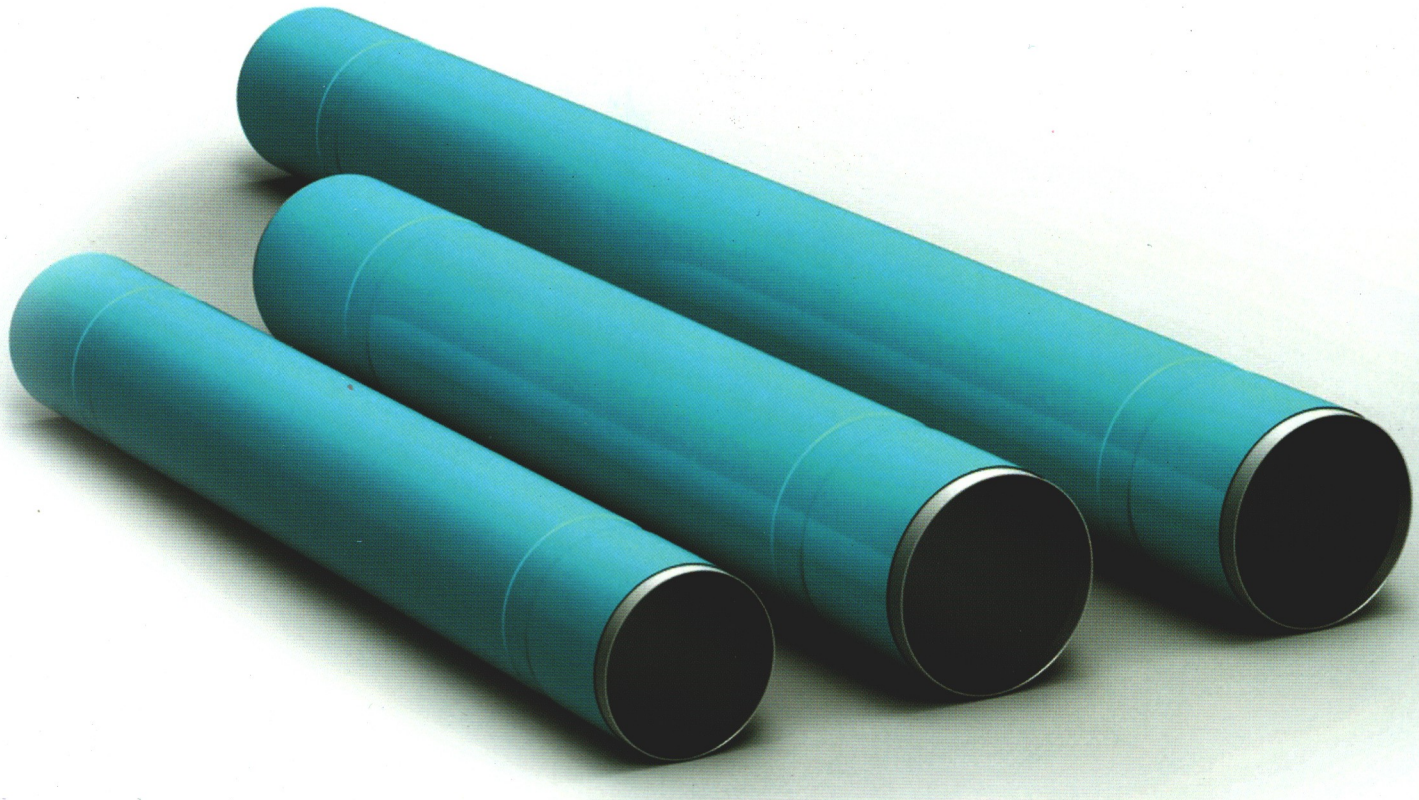


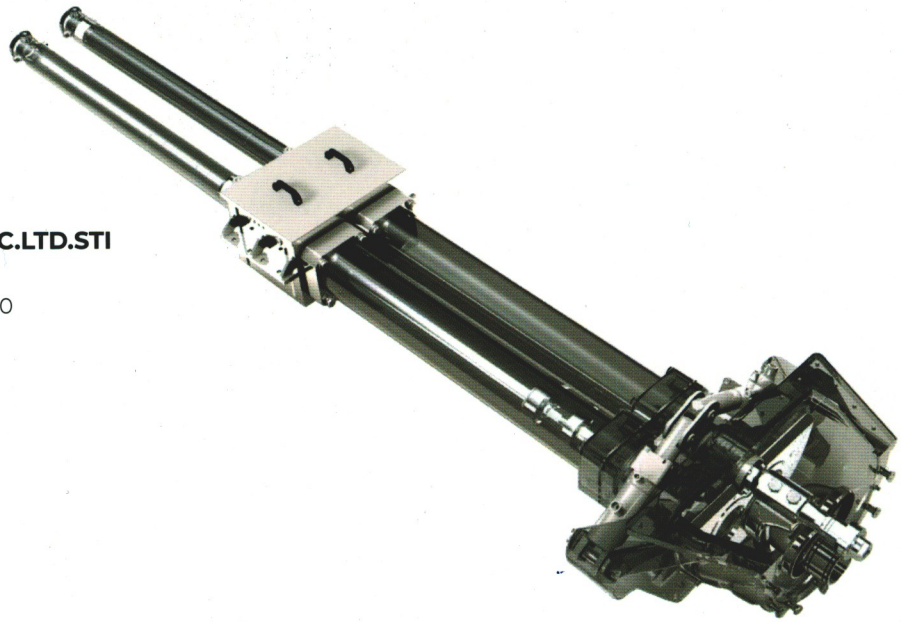




Promotion Film

BORMATEK®





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