

English Version

www.deemex.gr



# The Company:

ELKAT SA has strived to improve existing technologies and develop new products against abrasion. DEEMEX WearPlates is a range of products that meets the requirements of total wear solutions, based in the creation of a high-density Chromium Carbide Matrix. A matrix which is well known worldwide to be responsible for extreme wear resistance and high hardness which simultaneously provides an effect that reduces the loss due to abrasion. For each case after calculating all the parameters separately and by adding extra carbides like Boron and Niobium more products have been developed in order to provide the best available and tailor-made solutions that fit best each occasion.

# Field of activity:

**Engineering Solutions** 

·Client Orientated Designs

·Technical and Economical Analysis

WearPlates

**Custom Constructions** 

Pipes / Chutes

Earth Moving Equipment

·Blades

·Armors

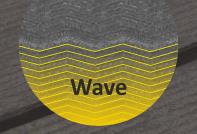
Mining Equipment

·Buckets

·Silos



### **Available Patterns**





## **DEEMEX**



## **Series**

#### **DMX 100**

C. (%): 3.2 – 4.7 Cr. (%): 22 – 27 Other: Mn, Fe Hardness Rockwell: 50 – 56

> Plate Thickness Plate : >=3mm Coating : >=3mm

#### **DMX 105**

C. (%) : 4.5 – 5.5 Cr. (%) : 27 – 32 Other : Mn, B, Fe Hardness Rockwell : 56 – 60

> Plate Thickness Plate : >=3mm Coating : >=3mm

#### **DMX 110**

C. (%): 4.5 – 5.9 Cr. (%): 32 – 37 Other: Mn, B, Mo, Fe Hardness Rockwell: 60 – 64

> Plate Thickness Plate : >=3mm Coating : >=3mm

#### **DMX 413**

C. (%): 3.3 – 4.7 Cr. (%): 22 – 32 Nb. (%): 2.7 – 3.3 Other: Mn, Mo, Fe Hardness Rockwell: 58 – 62

> Plate Thickness Plate : >=3mm Coating : >=3mm

#### **DMX 415**

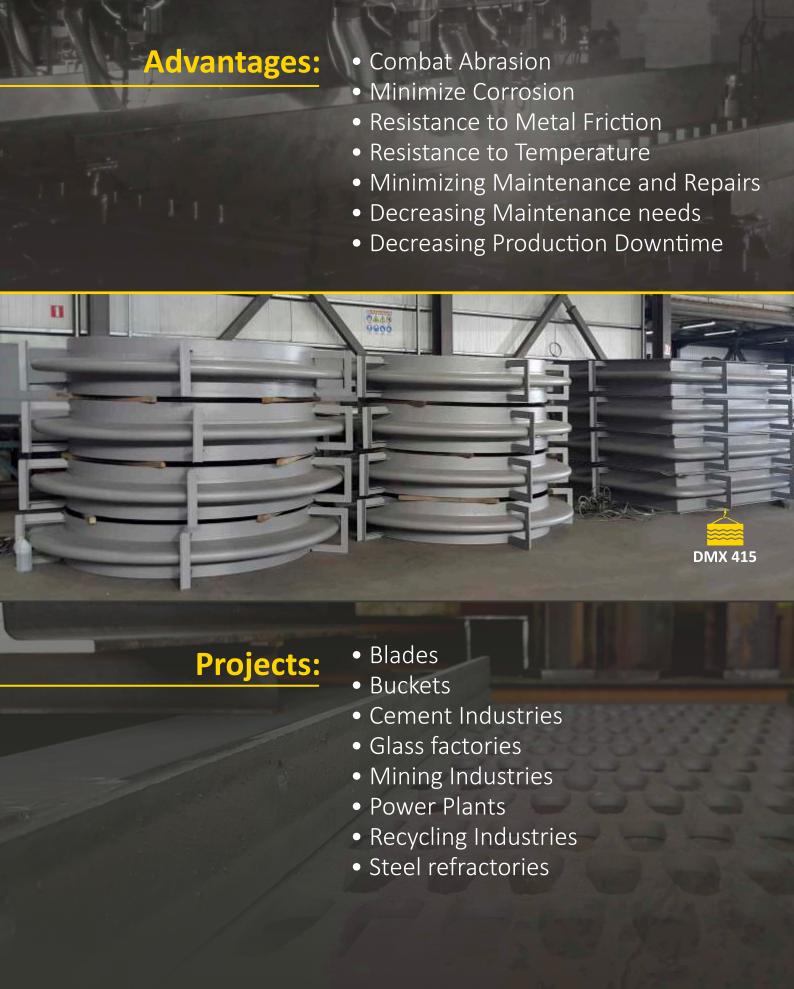
C. (%): 3.5 – 4.9 Cr. (%): 22 – 32 Nb. (%): 4.7 – 5.3 Other: Mn, Mo, Fe Hardness Rockwell: 60 – 64

> Plate Thickness Plate : >=3mm Coating : >=3mm

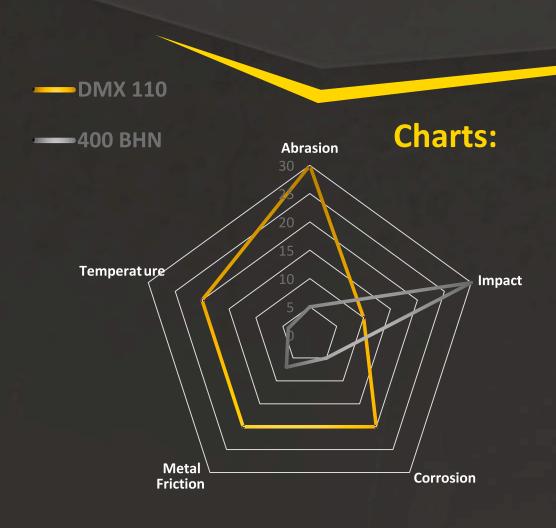
#### **DMX 510**

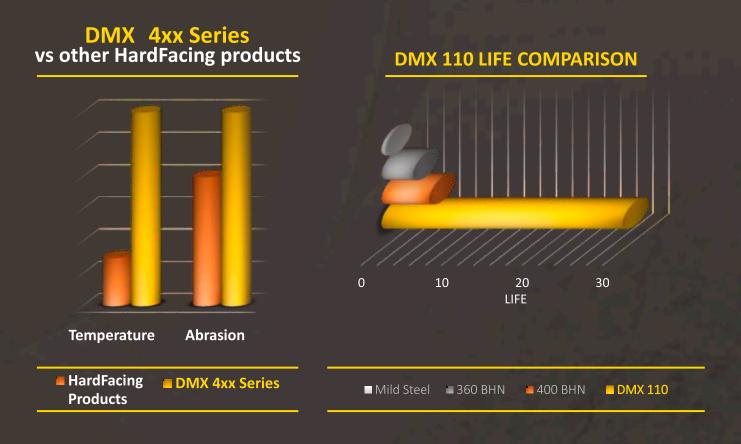
C. (%): 4.2 – 5.9 Cr. (%): 18 – 28 Nb. (%): 6.7 – 7.3 Other: Mn, B, Mo, Fe Hardness Rockwell: 62 – 67

> Plate Thickness Plate : >=5mm Coating : >=3mm







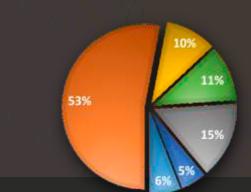






### **COMMON EQUIPMENT FAILURE**







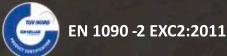
## **Achievements:**

- 3+3mm Wear Plates
  - (5% of the worldwide hardfacing productions are able to provide such solutions)
- Layers extra durable to temperature and abrasion simultaneously (DMX 4xx Series & DMX510)
- Multi pattern layer technology (Straight- Wave Pattern)
- Pipes internal hardfacing technology for better stream flow











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The HardFacing Department of



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