

OUR MISSION:

To make high performance abrasion resistant ceramic pipe affordable everywhere.

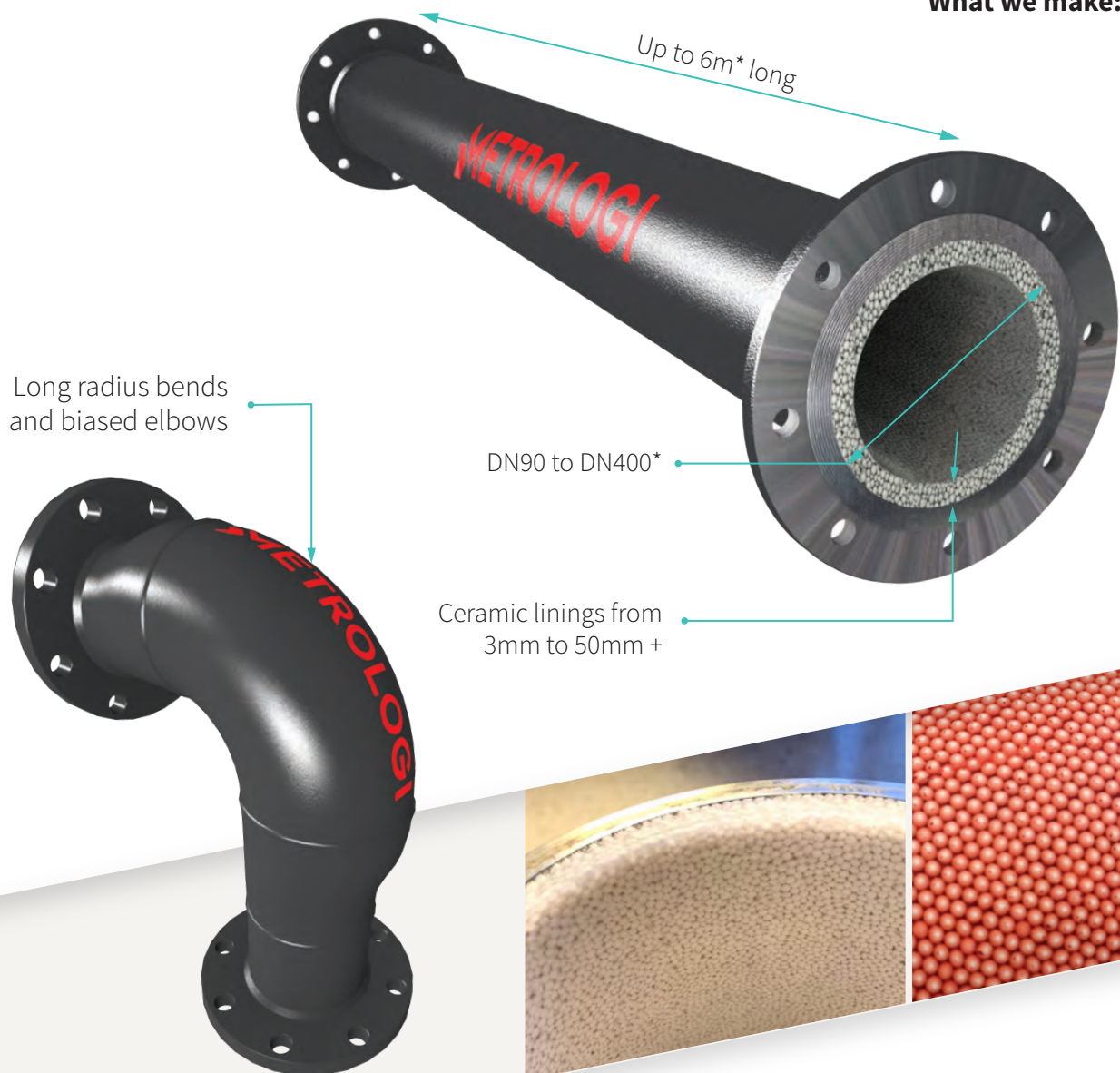
Industry problem:

When abrasion in pipe becomes too high for conventional wear materials, people have to either accept extremely high prices for suitable pipe technology or continue to tolerate pipe failures.

OUR SOLUTION:

Cost effective, high performance ceramic pipe

What we make:



The technology:

Digital manufacturing technology and research at our advanced materials characterisation facility have been brought together to create the highest possible quality ceramic composite pipe.

QUALITY



The toughest alumina, with a carefully selected ceramic micro-structure.

DENSITY



Highest packing density of ceramic reinforcements.

PRECISION



Computer controlled manufacturing process, guaranteeing precision and quality.



Specifications:

Ceramic	: 90% Al_2O_3
Compressive strength (ASTM-C773-88)	: 1461.7 MPa
Vicker's hardness (ASTM E384-89)	: 1136 VHN
Fracture toughness (Vickers Indentation)	: 3.3 MPa/ $M^{1/2}$
Glass transition (Post cure)	: 123 deg C
Cured density	: $\sim 2.92 \text{ g/cm}^3$

How we do it:

Metrologi is a vertically integrated, **true pipe OEM**. This reduces costs and increases quality by cutting out the “middle men” and by bringing a controlled, efficient, zero waste culture to pipe manufacture.



Our leadership team:

Combines over 16 years experience as leaders in ceramic wear parts design and supply in mining with the unique expertise in materials technology and digital manufacturing.



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