



BLADES FOR ROADWORKS EQUIPMENT

8
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Inagro
QUENCHED



Usage recommendation

Curved or hooked blades are recommended for roadwork finishing tasks since the cutting edge lasts longer when deeper ground penetration is required

Curved blades are recommended when:

- The ground is heavily packed.
- Ground penetration is hard.
- Accurate levelling is required.

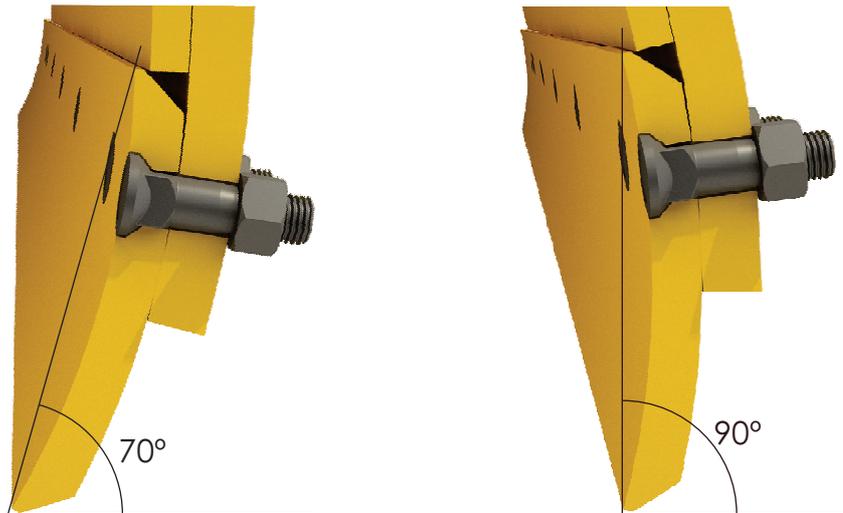


Assembly

Shovel tilt angle depends on the kind of work to be done: earth moving, maintenance, road finish or paving. As a general rule it should be considered that the harder the ground is, the more vertical the blade angle should be.

On the contrary, for slope finishing and for earth scattering a significant angle of attack will be required for a good performance.

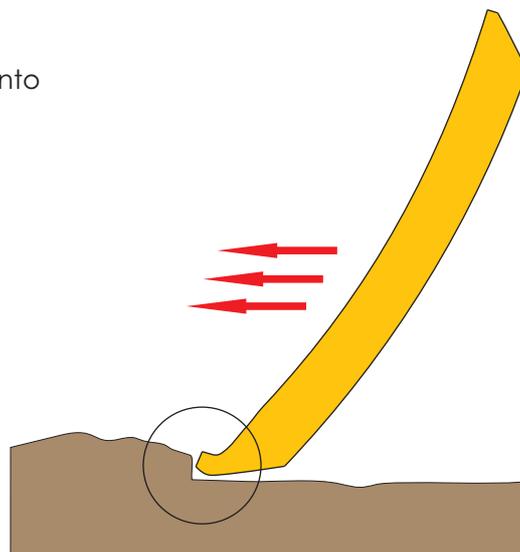
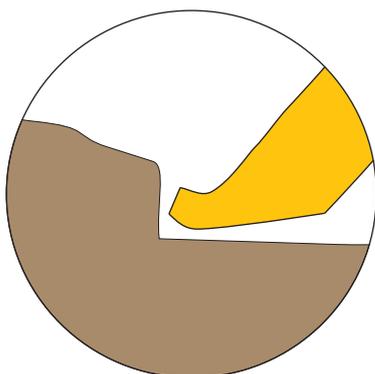
The recommended angle of attack for all the operations is between 70° to 90°.



Angle of attack

Cutting edge wear or deformation is more usual with curved blade shovels than with straight blades as a result of:

- A very aggressive angle of ground penetration.
- The pressure required to keep the blade penetrating into the ground.
- Higher average speed than recommended.

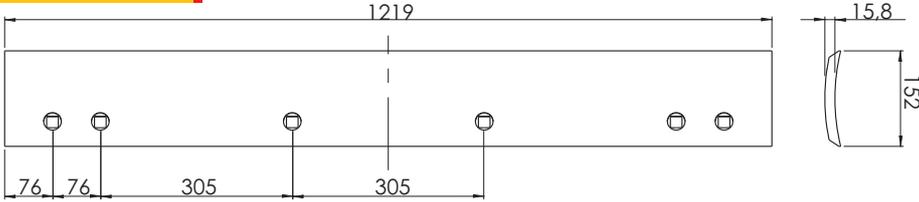


Excessive downsizing of angle of attack results in fast wear and shorter blade life.

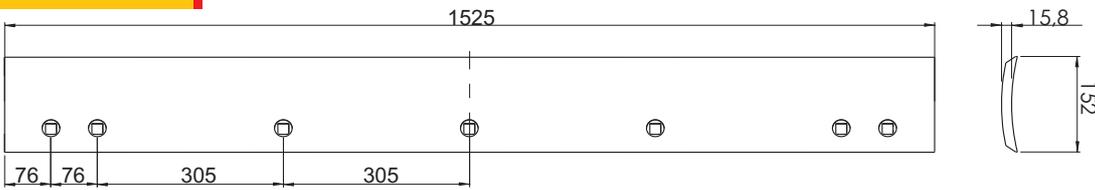
Choices



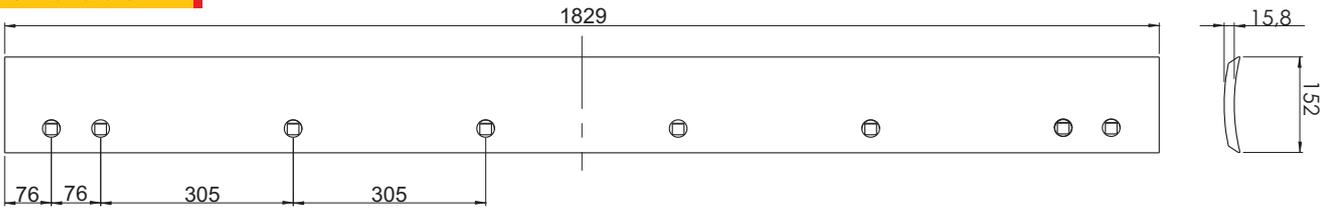
4' blade



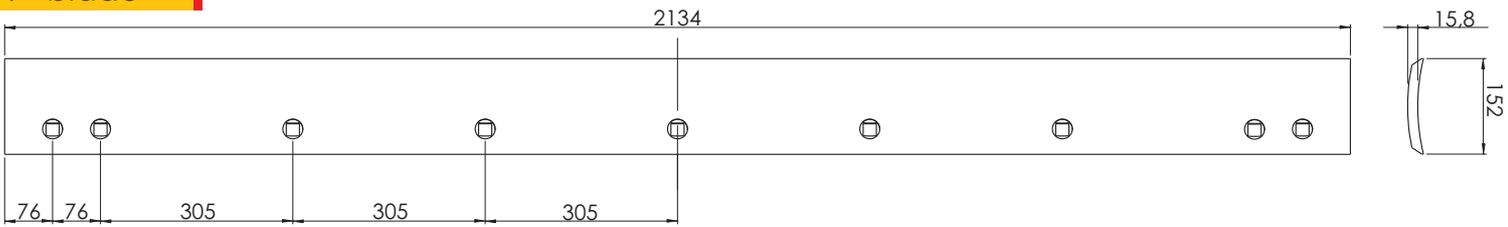
5' blade



6' blade



7' blade



FC - Short cutting edge

Longer life blade. The new Ingersoll desing.

IAR-0856-4-FC

IAR-0856-5-FC

IAR-0856-6-FC

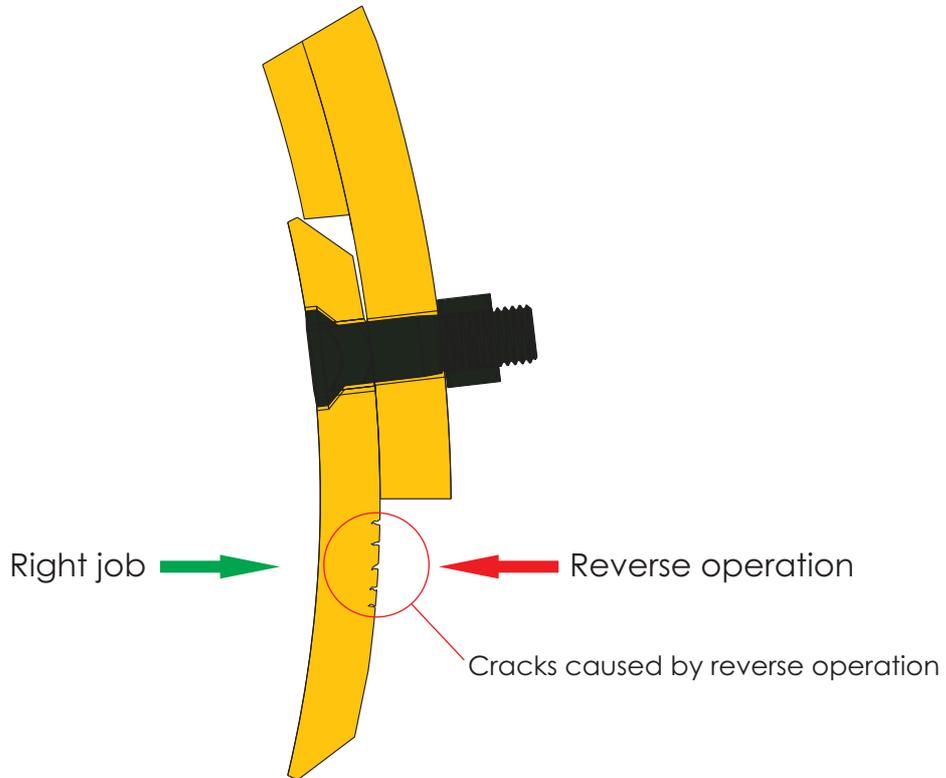
IAR-0856-7-FC



Reverse operation

Reverse operation must be avoided when finishing or paving roads in order to prevent damage to the blade set as it exerts stress on the mounting bolts and concentrates tension on the rounded inner edge of the square hole which may cause blade cracking or breakage.

This problem can easily be seen when inspecting the blade if there are marks on the reverse of the blade caused by stones or the ground itself.



Mounting bolts

5/8" square neck bolt.



Square fastening hole.



THE COMPANY

INGERSOLL ARGENTISA S.A is a fifty-year old metal industrial company.

It is located in Monte Maíz, a town in the southeast of the province of Córdoba in Argentina on a 4.5 hectares site with 12.000 sq meters premises and more than 200 employees.

Ingersoll and its people

Ingersoll's tools to manufacture the highest quality products and to offer the best working conditions to the workers are personnel training and the use of the latest manufacturing technology.

In this way high performance working teams are aimed at innovation regarding manufacturing, new product design, safety and quality with the goal of finding original solutions to make operability easier and developing good people-to-people relationships which add to staff satisfaction.

Besides, the people engage in in-company training courses as well as in external training which gives Ingersoll a highly trained staff who is able to manufacture products of the highest quality as for world standards.

The material we use

Microalloy Boron Steel is a kind of steel developed under the latest technology standards which give the material outstanding hardness and shock resistance. These features make Boron Steel the best material to undergo great strength and to extend the useful life of the road equipment blades.

All our road equipment blades are manufactured with Boron Steel which is then heat-treated for longer life and durability. Ingersoll has pioneered in the use of Boron in the manufacture of blades for road building and farming.

The Manufacturing Process

Ingersoll has the expertise in handling the manufacturing processes of heat-treated road and farm parts.

Quality

Ingersoll uses Statistics Control Processes quality systems to support product manufacturing which allows for the continual improvement and the highest quality standards of our products.

The aims of Ingersoll Argentina are Quality and Innovation.



Fabricante de partes de maquinaria agrícola certificado ISO 9001:2000



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