# HAND TOOLS

*Herramientas manuales*

METISA

## Handle models/ Modelos de mangos:

We supply the following types of handles:
Long wood and fiber handle
Short wood and fiber handle
The short wood "Y" handles can be supplied in polyethylene, metal grips and "T" wood.

Suministramos los siguientes tipos de Mangos:
Mango Largo de madera y de Fibra
Mango Corto de madera y de Fibra
Los puños de los mangos cortos "Y" pueden ser suminstrados de plastico polietileno, de metal y "T" de madera.

## Step Models/ Modelos de doblez:

rolled / redonda

back / atrás

forw / adelante

W/O

without step / sin doblez

## It keeps this open border while to use the catalogue

## *Guarda esta frontera abierta mientras utiliza el catálogo*

The following icons give the meaning of each symbol used in this catalogue.

Los siguientes íconos dan lo significado de cada símbolo utilizado en este catálogo.

### Handle models/ Modelos de mangos:

#### *Wood handle/ Mango de madera*

| | |
|---|---|
| A | Short wood handle polyethlene grips 28" to 32"<br>Mango de madera corto puños de polietileno 28" a 32" |
| D | Long wood handle 48"<br>Mango de madera largo 48" |
| DD | Long wood handle 47"<br>Mango de madera largo 47" |
| DDD | Long wood handle 48"<br>Mango de madera largo 48" |
| E | Short wood handle metal grips 28" to 32"<br>Mango de madera corto puños de metal 28" a 32" |
| J | Long wood handle 42" 45" 48" 49" 59"<br>Mango de madera largo 42" 45" 48" 49" 59" |
| JJ | Long wood handle 48"<br>Mango de madera largo 48" |
| JJJ | Long wood handle 48"<br>Mango de madera largo 48" |
| K | Long wood handle 47"<br>Mango de madera largo 47" |
| P | Short wood handle polyethelene grips 28" to 32"<br>Mango de madera corto puños de polietileno 28" a 32" |
| T | Short wood handle 28"<br>Mango de madera corto 28" |

#### *Fibre handle/ Mango de fibra*

| | |
|---|---|
| R | Long fibre handle 48"<br>Mango de fibra largo 48" |
| W | Short fibre handle 28"<br>Mango de fibra corto 28" |

#### *Steel Handle/ Mango de Acero*

| | |
|---|---|
| F | Steel Handle 48"<br>Mango de Acero 48" |

### Types of step/ Tipos de doblez

| | |
|---|---|
| rolled / redonda | forw / adelante |
| back / atrás | W/O without step / sin doblez |

# **Introduction**/*Introducción*

## **Hand tools**/*Herramientas manuales*

METISA is one of the world´s largest manufacturers of shovels, spades and post hole diggers.

Made of high-carbon steel, Metisa´s shovels are optimal for jobs requiring high mechanical resistance and good tenacity, such as in civil construction, gardening, agriculture and mining.

METISA´s shovels, spades and post hole diggers are available in several types of steps and with a wide range of wooden or fiberglass handles having either steel or high-density polyethylene grips, or just without handle.

*La METISA está entre los fabricantes más grandes del mundo en el segmento de palas y cavahoyos.*

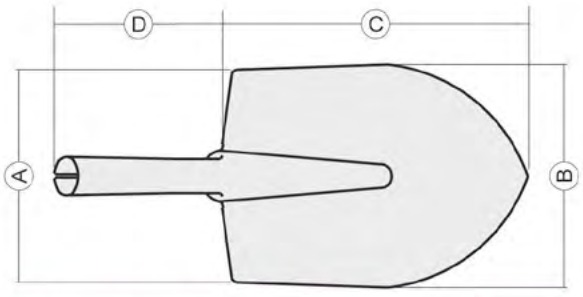
*Hechas de acero con alto contenido de carbono, las palas METISA son ideales para trabajos que exigen grande resistencia mecánica y buena tenacidad, tales como en la construcción civil, jardinería, agricultura y minería.*

*Las palas METISA son ofrecidas en diferentes tipos de doblez en los hombros y con un gran rango de mangos de madera o de fibra, teniendo puños de acero o de polietileno de alta densidad, o simplemente sinmango.*

METISA CERTIFIED COMPANY ISO 9001

# Round Point Shovels - USA Models

*Palas Redondas - Modelos Estados Unidenses*



| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | Step | Doblez |
|---|---|---|---|---|---|---|---|---|---|
| 101-2 | 1,70 | 195 | 200 | 285 | 135 | 34 | 1,00 | rolled | *atrás* |
| 104-2 | 1,70 | 216 | 226 | 310 | 225 | 34 | 1,20 | back | *atrás* |
| 107-2 | 1,70 | 214 | 237 | 315 | 230 | 36 | 1,20 | back | *atrás* |
| 108-2 | 1,60 | 214 | 225 | 305 | 210 | 35,5 | 1,06 | forw | *adelante* |
| 109-2 | 1,70 | 205 | 215 | 295 | 130 | 34 | 1,16 | rolled | *atrás* |
| 110-2 | 1,70 | 212 | 212 | 285 | 225 | 34 | 1,00 | rolled | *atrás* |
| 112-2 | 1,70 | 212 | 219 | 285 | 225 | 34 | 1,00 | forw | *adelante* |

# Round Point Shovels - South American Models

*Palas Redondas - Modelos Sudamericanas*

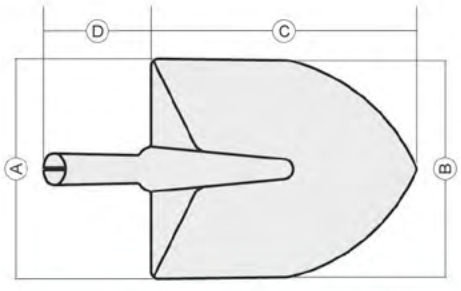
100-2

100-5

100-3

100-4

113-3



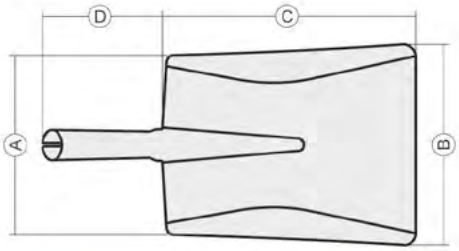

| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 100-2 | 1,70 | 225 | 225 | 295 | 180 | 35 | 1,10 | w/o | *sin* |
| 100-3 | 1,70 | 250 | 250 | 305 | 180 | 35 | 1,25 | w/o | *sin* |
| 100-4 | 1,70 | 265 | 265 | 322 | 180 | 35 | 1,38 | w/o | *sin* |
| 100-5 | 1,70 | 305 | 305 | 325 | 180 | 35 | 1,48 | w/o | *sin* |
| 113-3 | 1,70 | 285 | 280 | 335 | 205 | 35 | 1,40 | w/o | *sin* |

# Square Point Shovels - USA Models

*Palas Cuadradas - Modelos Estados Unidenses*

203-2 205-2 208-2

| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 203-2 | 1,70 | 206 | 244 | 305 | 225 | 35 | 1,36 | forw | *adelante* |
| 205-2 | 1,70 | 205 | 240 | 292 | 225 | 34 | 1,28 | rolled | *atrás* |
| 208-2 | 1,70 | 208 | 240 | 282 | 210 | 35 | 1,30 | forw | *adelante* |




# Square Point Shovels - Canadian Models

*Palas Cuadradas - Modelos Canadienses*

206-2

212-2

| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 206-2 | 1,70 | 220 | 260 | 305 | 210 | 35 | 1,50 | forw | *adelante* |
| 212-2 | 1,70 | 238 | 281 | 338 | 143 | 37 | 1,50 | w/o | *sin* |

# Square Point Shovels - South American Models

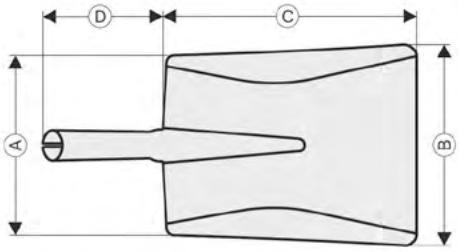
*Palas Cuadradas - Modelos Sudamericanos*

200-3

200-4

200-5

207-2
207-4
207-6
207-8
207-10




| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 200-3 | 1,70 | 226 | 248 | 295 | 180 | 35 | 1,35 | w/o | *sin* |
| 200-4 | 1,70 | 230 | 260 | 320 | 180 | 35 | 1,54 | w/o | *sin* |
| 200-5 | 1,70 | 275 | 310 | 340 | 180 | 35 | 1,75 | w/o | *sin* |
| 207-2 | 1,70 | 260 | 260 | 320 | 200 | 35 | 1,50 | w/o | *sin* |
| 207-4 | 1,70 | 255 | 280 | 335 | 200 | 34,5 | 1,65 | w/o | *sin* |
| 207-6 | 1,70 | 275 | 300 | 355 | 185 | 34,5 | 1,87 | w/o | *sin* |
| 207-8 | 1,70 | 295 | 325 | 380 | 185 | 34,5 | 2,13 | w/o | *sin* |
| 207-10 | 1,70 | 315 | 350 | 400 | 195 | 34,5 | 2,41 | w/o | *sin* |

# Square Point Spades
*Palas Jardineras*

400-3

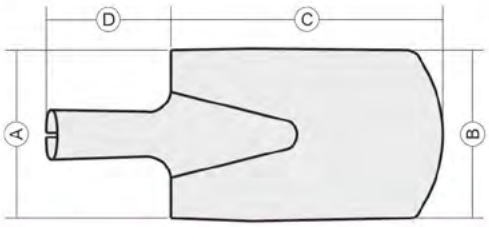
409-2

409-3

402-2

410-1
410-2

406-2




| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | Step | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 400-3 | 1,90 | 218 | 200 | 290 | 95 | 38 | 1,09 | forw | *adelante* |
| 402-2 | 2,00 | 188 | 156 | 315 | 185 | 35 | 1,26 | forw | *adelante* |
| 406-2 | 1,70 | 178 | 183 | 295 | 200 | 35 | 1,04 | back | *atrás* |
| 409-2 | 1,80 | 152 | 127 | 350 | 278 | 34 | 1,15 | forw | *adelante* |
| 409-3 | 1,70 | 152 | 110 | 400 | 230 | 32 | 0,95 | forw | *adelante* |
| 410-1 | 1,80 | 165 | 128 | 302 | 230 | 34,5 | 1,02 | forw | *adelante* |
| 410-2 | 1,80 | 182 | 178 | 305 | 230 | 34,5 | 1,15 | forw | *adelante* |

# Specific Models
## *Modelos Específicos*

122-2

222-2

602

600

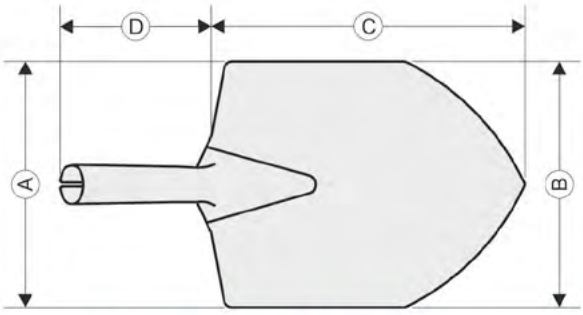
700-2

800-2

900-1

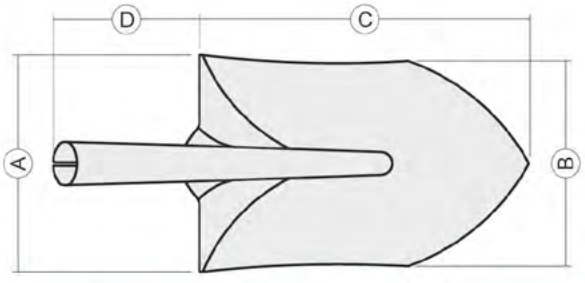
| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | Step | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 122-2 | 1,70 | 226 | 248 | 295 | 180 | 35 | 1,35 | forw | *adelante* |
| 222-2 | 1,70 | 230 | 260 | 320 | 180 | 35 | 1,54 | forw | *adelante* |
| 700-2 | 1,70 | 275 | 310 | 340 | 180 | 35 | 1,75 | back | *atrás* |
| 602 | 1,70 | 260 | 260 | 320 | 200 | 35 | 1,50 | w/o | *sin* |
| 600 | 2,00 | 190 | 230 | 240 | 105 | 49 | 1,00 | w/o | *sin* |
| 800-2 | 4,50 | 360 | 100 | - | - | - | 1,20 | w/o | *sin* |
| 900-1 | 2,00 | 146 | 120 | 255 | 65 | 34,5 | 0,78 | w/o | *sin* |

# Round Point Spades
*Palas Cortadoras Redondas*




| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 105-2 | 1,70 | 240 | 230 | 280 | 145 | 34 | 1,00 | forw | *adelante* |
| 105-3 | 1,80 | 250 | 250 | 320 | 190 | 34 | 1,37 | forw | *adelante* |
| 115-2 | 1,70 | 227 | 218 | 265 | 105 | 32,5 | 0,85 | forw | *adelante* |
| 300-3 | 1,90 | 218 | 210 | 285 | 80 | 38 | 1,00 | forw | *adelante* |
| 304-2 | 1,70 | 226 | 229 | 290 | 228 | 34,5 | 1,00 | rolled | *atrás* |

# Australian Models
*Palas Modelos Australianos*




| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 116 | 1,70 | 190 | 180 | 290 | 173 | 35 | 0,86 | forw | *adelante* |
| 117 | 1,70 | 240 | 117 | 293 | 175 | 35 | 1,15 | forw | *adelante* |
| 301 | 1,70 | 201 | 185 | 316 | 175 | 35 | 1,02 | w/o | *sin* |
| 303 | 1,70 | 194 | 188 | 267 | 160 | 35 | 0,89 | forw | *adelante* |
| 411 | 1,70 | 118 | 99 | 290 | 156 | 35 | 1,05 | forw | *adelante* |

# European Models
*Palas Modelos Europeos*

106-2

102-2

201-2

201-1

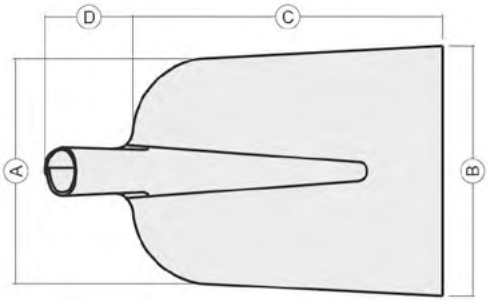
204-2

204-1

113-3

404-2

A
D
E
T



207-4

| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | Step | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 102-2 | 1,70 | 265 | - | 285 | 85 | 38 | 1,02 | w/o | *sin* |
| 106-2 | 1,70 | 260 | 254 | 275 | 65 | 34,5 | 1,02 | w/o | *sin* |
| 201-1 | 1,80 | 200 | 220 | 272 | 80 | 38 | 0,95 | w/o | *sin* |
| 201-2 | 1,70 | 245 | 250 | 279 | 75 | 38 | 1,00 | w/o | *sin* |
| 204-1 | 1,70 | 200 | 215 | 260 | 80 | 38 | 0,90 | w/o | *sin* |
| 204-2 | 1,70 | 230 | 250 | 295 | 65 | 38 | 1,05 | w/o | *sin* |
| 404-2 | 1,70 | 182 | 182 | 270 | 165 | 33 | 0,90 | forw | *adelante* |
| 113-3 | 1,70 | 285 | 280 | 335 | 205 | 35 | 1,40 | w/o | *sin* |
| 207-4 | 1,70 | 255 | 280 | 335 | 185 | 34,5 | 1,65 | w/o | *sin* |

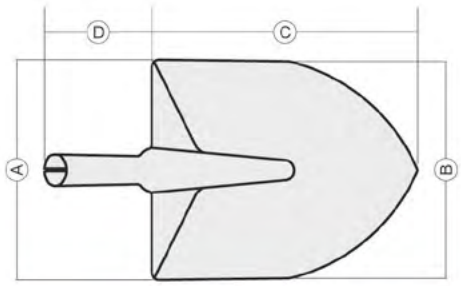
# French Models
*Palas Modelos Franceses*

127

129

131

213-2

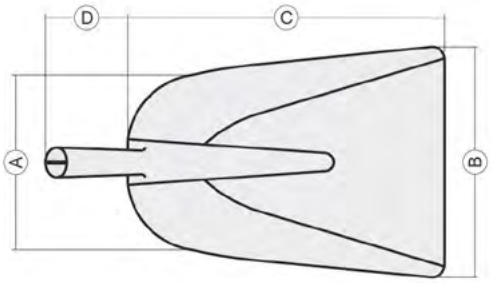



| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 127 | 1,70 | 275 | 266 | 266 | 179 | 38 | 1,15 | w/o | *sin* |
| 129 | 1,70 | 290 | - | 295 | 165 | 38 | 1,25 | w/o | *sin* |
| 131 | 2,00 | 300 | 280 | 315 | 105 | 38 | 1,70 | w/o | *sin* |
| 213-2 | 1,70 | 225 | 205 | 270 | 170 | 38 | 1,10 | w/o | *sin* |

# Coal Shovels
*Palas Carboneras*

209-4 - 9 lift
210-4 - 11 lift
211-4 - 14 lift
221-4 - 21 lift

225-6




| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* | *Step* | *Doblez* |
|---|---|---|---|---|---|---|---|---|---|
| 209-4 | 1,70 | 338 | 372 | 390 | 178 | 34,5 | 2,20 | w/o | *sin* |
| 210-4 | 1,70 | 330 | 366 | 398 | 155 | 34,5 | 2,20 | w/o | *sin* |
| 211-4 | 1,70 | 338 | 360 | 386 | 175 | 34,5 | 2,20 | w/o | *sin* |
| 221-4 | 1,70 | 338 | 360 | 386 | 175 | 34,5 | 2,78 | w/o | *sin* |
| 225-6 | 1,70 | 285 | 315 | 400 | 147.5 | 35 | 1,85 | back | *atrás* |
| 212-2 | 1,70 | 238 | 281 | 338 | 143 | 37 | 1,50 | w/o | *sin* |
| 217-3 | 2,20 | 320 | 365 | 435 | 160 | 33,5 | 1,05 | w/o | *sin* |
| 217-4 | 2,20 | 335 | 375 | 455 | 160 | 33,5 | 1,20 | w/o | *sin* |
| 217-5 | 2,20 | 350 | 385 | 475 | 160 | 33,5 | 1,35 | w/o | *sin* |

# Aluminium Shovels
*Palas de aluminio*

217-3
217-4
217-5

212-2

# Post Hole Diggers
*Palas Abre Hoyos*

J

500-2 J 42"
500-2 J 45"

J

500-3 J 49"

K

500-2 K 47"

DDD
R

501-2 DDD 48"
501-2 R 48"

J

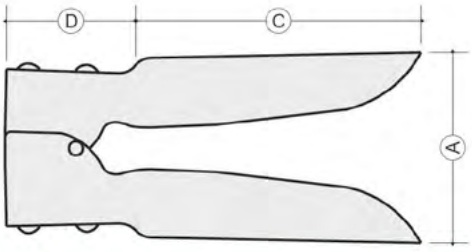
500-4 J 49"
500-4 J 59"

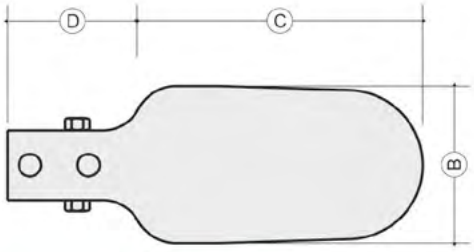
DDD
R

502-2 DDD 48"
502-2 R 48"

DDD
R

502-3 DDD 48"
502-3 R 48"




| Type *Tipo* | Thickness (mm) *Espesor (mm)* | A (mm) | B (mm) | C (mm) | D (mm) | Inside diameter neck (mm) *Diámetro Interno Cuello (mm)* | Weight (kg) without handle *Peso (kg) s/ Mango* |
|---|---|---|---|---|---|---|---|
| 500-2K | 2,20 | 139 | 120 | 218 | 78 | 34,5 | 3,40 |
| 500-2J | 2,20 | 130 | 113 | 220 | 80 | 37 | 3,95 |
| 500-3J | 1,70 | 136 | 118 | 251 | 105 | 37 | 3,60 |
| 500-4J | 2,00 | 179 | 170 | 289 | 110 | 37 | 5,32 |
| 501-2 | 2,70 | 140 | 124 | 257 | 92 | 38,5 | 4,05 |
| 502-2 | 1,70 | 140 | 120 | 256 | 89 | 38,5 | 3,70 |
| 502-3 | 3,00 | 154 | 135 | 281 | 101 | 38,5 | 6,75 |

F

502-3F 48"

## A Solid Firm

METISA, Metalurgica Timboense S.A., installed in an area of 240.000 m² of which 37.250 m² is the industrial plant itself, guarantees the production of 80.000 tons per year of hot rolled steel products. METISA has seven lines of products:

- Ground Engaging Tools and Undercarriage Parts
- Agricultural Implements such as Disc Blades and Accessories for agricultural implements
- Sugarcane harvest blade
- Hand Tools
- Granite Saw Blades
- Railroad Accessories
- Washers
- Truck Accessories

## Una Empresa Sólida

METISA- Metalúrgica Timboense S.A., está instalada en una área de 240.000 m² de los cuales 37.250 m² corresponden a su planta industrial, con capacidad de fabricación de 80.000 toneladas al año en productos de acero laminados:

- Repuestos para Maquinárias Viales de Movimento de Tierra
- Discos e Implementos Agrícolas
- Cosechadoras de caña de azúcar
- Herramientas Manuales
- Láminas para Corte de Granito
- Accesórios Ferroviários
- Arandelas
- Piezas para Equipos Camineros

## METISA Services

METISA exports products to more than 40 countries on the 5 continents, and is apt to give pre and post-sales service by qualified professionals.

## Servicios METISA

METISA exporta sus productos para más de 40 países de los 5 continentes y ofrece servicios de pre y post ventas con profesionales cualificados.

Technical features and product design can be changed without prior warning. Mere illustrative pictures. February/2014
Especificaciones técnicas y dibujo del producto pueden sufrir cambios sin aviso previo. Fotos meramente ilustrativas. Febrero/2014

METISA

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