

MOLETEADORES POR DEFORMACIÓN FORM-KNURLING TOOLS

Caracteristicas

· Herramienta de moletear por deformación para trabajos no repetitivos y de precisión media

- · Indicada tanto para moleteados axiales (F) como radiales (R)
- Moleteados axiales (F) solo para las formas RAA, RBL, RBR
- · Ejes de HSS fijados mediante circlips
- Recomendado para moleteados rectos tipo AA

Tipos de máquinas

· Para tornos convencionales

Features

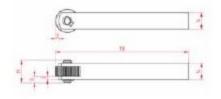
- Form-knurling tool to perform medium accuracy knurling operations
- Not intended for intensive use
- · Suitable for both traverse (F) and radial (R) feed
- Traverse feed (F) only for RAA, RBL, RBR patterns
- HSS axles fixed with circlips
- · Recommended for AA straight knurlings

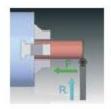
Machine Types

· For conventional lathes

Tipos de moleteados según DIN 82 / Knurlings according to DIN 82









| Codigo Code | Referencia Reference | Version Version | Capacidad Capacity | | kg kg | 1000 | Repuesto Dare Part |
|----------------|-------------------------|--------------------|-----------------------|--------|----------|------|-----------------------|
| 01010100 | M1 20.08.14 | R+L | Ø8÷200 | 20x8x6 | 0.2 | EM1 | 2 |

KIT M1-M7:

Conjunto básico de moleteado por deformación que contiene:

1xM1 20.08.14

1xM7 20.08.25

2xEM7, eje de repuesto para moleteador M7

1xEM1, eje de repuesto para moleteador M1

Un juego de moletas (BR30° + BL30°) de paso 0.8

Un juego de moletas (BR30° + BL30°) de paso 1.2 Un juego de moletas (BR30° + BL30°) de paso 1.6

1 moleta AA de paso 0.8, otra de paso 1.2 y otra de paso 1.6

Form-kurling basic kit that consists of:

1xM1 20.08.14

1xM7 20.08.25

2xEM7, spare axle for M7 tool

1xEM1, spare axle for M1 tool

One pair of knurts (BR30" + BL30") pitch 0.8

One pair of knurts (BR30° + BL30°) pitch 1.2 One pair of knurts (BR30° + BL30°) pitch 1.6

1 AA knurl pitch 0.8, 1 AA knurl pitch 1.2, 1 AA knurl pitch 1.6

Nota: Las moletas suministradas en este kit son de medida 20x8x6 mm Notice: Knurls delivered within this kit are 20x8x6 mm sized



| Code | Referencia Reference | kg kg |
|----------|-------------------------|----------|
| 01110100 | KM1-M7 | 1.1 |

MOLETEADORES POR DEFORMACIÓN FORM-KNURLING TOOLS

INIEGI

Características

- · Herramienta de moletear por deformación
- Posibilidad de corrección del ángulo de ataque de la moleta mediante dos espárragos Allen situados en el mango
- Indicada tanto para moleteados axiales (F) como radiales (R)
- · Moleteados axiales (F) solo para las formas RAA, RBL, RBR
- · Eje de metal duro
- · Eje fijado mediante prisionero, lo que permite un cambio rapido de la moleta

Tipos de máquinas

Tornos automáticos, multihusillo, de cabezal móvil, convencionales y CNC

Features

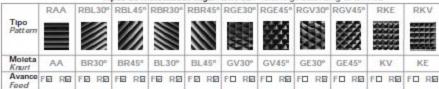
- · Form-knurling tool
- · Possibility to vary clearance angle by means of a pair of screws placed in the shank
- · Suitable for both traverse (F) and radial (R) feed
- · Traverse feed (F) only for RAA, RBL, RBR patterns
- · Carbide axle
- · Axle fixed with a screw for an instant knurl change

Machine Types

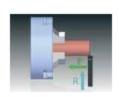
· Swiss type , multi-spindle, sliding head, conventional and CNC lathes

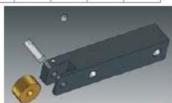


Tipos de moleteados según DIN 82 / Knurlings according to DIN 82

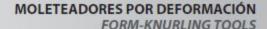








| Código Code | Referencia Reference | Versión Version | Capacity Capacity | Moleta Knurl | Α | В | С | D | E | F | G | Н | kg kg | | puesto are Part |
|----------------|-------------------------|--------------------|-------------------|--------------------|-------|------|-----|-----|------|-------|-----|----|----------|--------------|--------------------|
| 01062900 | M6.15,06.0B-N | R+L | Ø3+100 | 15x6x4 | 100 | 20 | B:: | 8 | 14 | 1 | 2.5 | 14 | 0.2 | | |
| 01062900 | M6 15.06.10-N | R+L | Ø3÷100 | *10x4x4 | 100 | 20 | 10 | 10 | 14 | (Ø10) | 2.5 | 14 | 0.2 | EM6 14.4 HM | |
| 01063000 | M6 15.06.12-N | R+L | Ø3÷100 | *10x5x4 *15x4x4 | 102,5 | 22,5 | 12 | 12 | 14 | 3,5 | 2.5 | 14 | 0.2 | EMD 14.4 HM | |
| 01063100 | M6 15:06:14-N | R+L | Ø3÷100 | *15x5x4 | 102,5 | 22,5 | 14 | .14 | . 14 | (Ø15) | 2.5 | 14 | 0.2 | | |
| 01061300 | M6 20.06.10 | R+L | Ø5+200 | | 105 | 28 | 10 | 10 | 20 | | 2.5 | 20 | 0.2 | | |
| 01061400 | MS 20.06.12 | R+L | Ø5+200 | anveve | 105 | 28 | 12 | 12. | 20 | 3 | 2.5 | 20 | 0.2 | | |
| 01061500 | M6 20.06.14 | R+L | Ø5÷200 | 20X6X6 | 105 | 28 | 14 | 14 | 20 | 3 | 2.5 | 20 | 0.2 | | |
| 01061600 | M6 20.06.16 | R+L | Ø5+200 | | 105 | 28 | 16 | 16 | 20 | | 2.5 | 20 | 0.3 | | |
| 01061700 | M6 20.08.10 | R+L | Ø5÷200 | | 105 | 28 | 20 | 20 | 20 | | 2.5 | 20 | 0.5 | | 1112 |
| 01061800 | M6 20.08.10 | R+L | Ø5+200 | 20x8x6 | 105 | 28 | 10 | 10 | 20 | | 2.5 | 20 | 0.5 | EM6 20.6 HM | / |
| 01061900 | M6 20,08.12 | R+L | Ø5+200 | *20X6X6 | 105 | 28 | 12 | 12 | 20 | | 2.5 | 20 | 0.5 | EWO ZULO FIM | 00 |
| 01062000 | M6 20.08.14 | R+L | Ø5÷200 | | 105 | 28 | 14 | 14 | 20 | 3 | 2.5 | 20 | 0.3 | 1 | - |
| 01062100 | MS 20.08.16 | R+L | Ø5+200 | | 105 | . 28 | 16 | 16 | 20 | | 2.5 | 20 | 0.4 |] | |
| 01062200 | M6 20.08.20 | R+L | Ø5÷200 | | 105 | 28 | 20 | 20 | 20 | | 2.5 | 20 | 0.5 | | |
| 01062300 | M6 20.10.10 | R+L | Ø5÷200 | | 105 | 28 | 10 | 10 | 20 | | 2.5 | 20 | 0.3 | | |
| 01062400 | M6 20.10.12 | R+L | Ø5÷200 | 20x10x6 | 105 | 28 | 12 | 12 | 20 | | 2.5 | 20 | 0.3 | | |
| 01062500 | M6 20.10.14 | R+L | Ø5÷200 | *20X6X6 | 105 | 28 | 14 | 14 | 20 | 3 | 2.5 | 20 | 0.3 | | |
| 01062600 | M6 20.10.16 | R+L | Ø5+200 | *20XBX6 | 105 | 28 | 16 | 16 | 20 | | 2.5 | 20 | 0.4 | | |
| 01062700 | M6 20.10.20 | R+L | Ø5÷200 | | 105 | 28 | 20 | 20 | 20 | | 2.5 | 20 | 0.5 |] | |





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- · Moleteados axiales (F) solo para las formas RAA, RBL, RBR
- Eje de metal duro
- Eje fijado mediante prisionero, lo que permite un cambio r\u00e4pido de la moleta

Tipos de máquinas

 Tornos automáticos, multihusillo, de cabezal móvil, convencionales y CNC.

Features

- · Form-knurling tool
- Rossibility to vary clearance angle by means of a pair of screws placed in the shank
- · Suitable for both traverse (F) and radial (R) feed
- · Traverse feed (F) only for RAA, RBL, RBR patterns
- · Carbide axle
- · Axles fixed with a screw for an instant knurl change

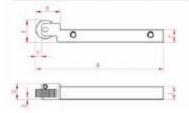
Tipos de máquinas

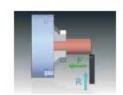
· Swiss type, multi-spindle, conventional and CNC lathes.

and CNC lathes.

Tipos de moleteados según DIN 82 / Knurlings according to DIN 82









| Codigo | Referencia | Ver. | Capacida | d/Capacity | Molet | a/Knuri | 1 | 4 | I | 3 | C | 1 | E | | F | kg | Repu | esto | | | | | |
|----------|---------------|------|-------------------|---|--------|---------|-------|-------|---------|--------|--------|------|------|-----|-----|--------|-------|------|---|----|-----|-------------|----|
| Code | Reference | Var. | @10 | Ø15 | 6230 | Ø15 | 2370 | Ø15 | Ø10 | Ø15 | - | £710 | Ø15 | Ø10 | @15 | kg | Spare | Part | | | | | |
| 01201300 | MB 15.06.08 R | | 0.12 - 12 12 - 12 | 100000000000000000000000000000000000000 | - | Market | | | | | | | | | | | | | | | | | |
| 01200700 | M8 15.05.08 R | R | £33÷50 | Ø3÷100 | Water | 15x5x4 | 965 | 99 | 165 | 19 | В | 15 | 17.5 | 2 | 4.5 | 0.2 | | | | | | | |
| 01200100 | M8 15.04.08 R | | | | Thrist | Salat | | | 0 | | | | | | | | | | | | | | |
| 01201400 | MB 15.06.08 L | | | | - | 15sto4 | | | | | | | | | | | | | | | | | |
| 01200900 | MB 15.05.08 L | L | Ø3÷50 | Ø3÷100 | Water | 15x5x4 | 965 | 99 | 155 | 19 | B | 15 | 17.5 | 2 | 45 | 0.2 | | | | | | | |
| 01200200 | M8 15.04.08 L | | | | Thrist | 15x4x4 | | | | | | | | | | | | | | | | | |
| 01201500 | MB 15.06.10 R | | | | - | 15x5x4 | | | | | | | | | | | | _ | | | | | |
| 01200900 | MB 15.05.10 R | R | Ø3+50 | Ø3÷50 | Ø3÷50 | Ø3+50 | Ø3÷50 | Ø3÷50 | £33÷100 | 10x5x4 | 15x5x4 | 965 | 99 | 155 | 19 | 10 | 15 | 17.5 | 2 | 45 | 0.2 | EM8 12.4 HM | 10 |
| 01200300 | MB 15.04.10 R | | | | Thrist | 15x4x4 | | | | | | | | | | | | 0 | | | | | |
| 01201600 | MB 15.06.10 L | | | | - | 15x5x4 | | | | | | | | | | | | | | | | | |
| 01200400 | MB 15:05:10 L | L | Ø3÷50 | Ø3÷100 | 10x5x4 | 15x5x4 | 965 | 99 | 165 | 19 | 10 | 15 | 17.5 | 2. | 45 | 02 | | | | | | | |
| 01201000 | M8 15.04.10 L | | | | Thrist | 15x4x4 | | | | | | | | | | | | | | | | | |
| 01201700 | MB 15.06.12 R | D | Ø3-50 | @3+100 | - | 15xfe4 | 965 | 99 | 165 | 19 | 12 | 15 | 17.5 | 2 | 45 | 02 | 1 | | | | | | |
| 01201100 | MB 15:05:12 R | | 100+00 | 12/3-100 | 10x5x4 | 15x5x4 | 303 | 20 | 163 | 12 | 12 | 12 | 14.2 | - | 100 | 44 | | | | | | | |
| 01201900 | M8 15.06.12 L | E | @3:50 | Ø3÷100 | 3- | 15x5x4 | 965 | 99 | 165 | 19 | 12 | 15 | 17.5 | 2: | 45 | 0.2 | | | | | | | |
| 01201200 | MB 15.05.12 L | | 223100 | 239100 | 10x5x4 | 96.5 | - | | | | | 12 | 100 | - | 1 | - make | | | | | | | |







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- · Moleteados axiales (F) solo para las formas RAA, RBL, RBR
- Eje de metal duro
- Eje fijado mediante prisionero, lo que permite un cambio r\u00e4pido de la moleta

Tipos de máquinas

· Tornos automáticos, multihusillo, convencionales y CNC

Features

- · Form-knurling tool
- Possibility to vary clearance angle by means of a pair of screws placed in the shank
- · Suitable for both traverse (F) and radial (R) feed
- · Traverse feed (F) only for RAA, RBL, RBR patterns
- · Carbide axle
- · Axle fixed with a screw for an instant knurl change

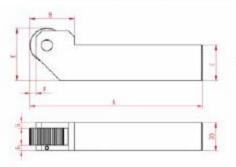
Machine Types

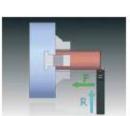
Feed

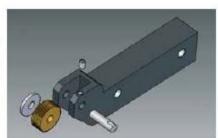
Swiss type, multi-spindle conventional and CNC lathes

Tipos de moleteados según DIN 82 / Knurlings according to DIN 82 RBL45° RBR30° RBR45° RGE30° RGE45° RGV30° RAA RKV Tipo Pattern Moleta BR30° BR45° BL30° BL45° GV45° GE30° GE45° AA GV30° ΚV KE Knuri

Avance Fig Rig Fig Rig



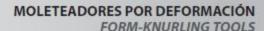




FO RØ FO RØ FO RØ

| Code Code | Reference Reference | Version Version | Capacidad Capacity | Moleta Knurl | A | В | С | E | F | kg kg | Spare i | |
|--------------|------------------------|--------------------|-----------------------|---------------------|-------|------|-----|------|-----|----------|--------------------|-----|
| 01041300 | M4-20.08.20 | R+L | Ø8÷200 | 20x8x6 | 119,5 | 29,5 | -20 | 30 | 2.5 | 0.4 | | |
| 01041400 | M4 20.08.25 | R+L | Ø8+200 | *20x6x6 | 119,5 | 29.5 | 25 | 35 | 2.5 | 0.5 | EM4/M5 20.6 HM | |
| 01041500 | M4 20.10.20 | R+L | Ø8+200 | 20x10x6 | 119,5 | 29.5 | 20 | 30 | 2.5 | 0.4 | EMPAIRIO ZULO FIMI | |
| 01041600 | M4 20.10.25 | R+L | Ø8-200 | *20x6x6 *20x8x6 | 119.5 | 29.5 | 25 | 35 | 2.5 | 0.5 | | ^ |
| 01041700 | M4 25.08.20 | R+L | Ø8÷300 | 25x8x8 | 122 | 32 | 20 | 32.5 | 5 | 0.4 | | 000 |
| 01041800 | M4 25.08.25 | R+L | Ø8÷300 | 2.000.00 | 122 | 32 | 25 | 37.5 | 5 | 0.5 | | 00 |
| 01041900 | M4 25.10.20 | R+L | Ø8÷300 | 25x10x8 | 122 | 32 | 20 | 32.5 | 5 | 0.4 | EM4/M5 20.8 HM | |
| 01042000 | M4 25.10.25 | R+L | Ø8:300 | *25x8x8 | 122 | 32 | 25 | 37.5 | 5 | 0.5 | | |
| 01042100 | M4 25.12.20 | R+L | Ø8÷300 | 25x12x8 | 122 | 32 | 20 | 32.5 | 5 | 0.4 | | |
| 01042200 | M4 25.12.25 | R+L | Ø8÷300 | *25x8x8 *25x10x8 | 122 | 32 | 25 | 37.5 | 5 | 0.5 | | |

^{*} Con arandelas de suplemento / * Using backing washers





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- · Indicada tanto para moleteados axiales (F) como radiales (R)
- Moleteados axiales (F) solo para las formas RAA, RBL, RBR
- Ejes fijados mediante prisionero, lo que permite un cambio rápido de la moleta
- · Para moleteados hasta una cara lateral

Tipo de máquinas

Tornos automáticos, multihusillo, de cabezal móvil, convencionales y CNC

Features

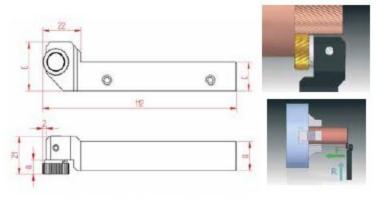
- · Form-knurling tool
- Possibility to vary clearance angle by means of a pair of screws placed in the shark
- · Suitable for both traverse (F) and radial (R) feed
- · Traverse feed (F) only for RAA, RBL and RBR patterns
- · Axles fixed with screws for an instant knurl change
- · For knurlings up to a vertical face

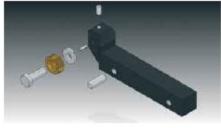
Machine types

Feed

· Swiss type, multi-spindle, sliding head, conventional and CNC lathes







| Codigo Code | Reference Reference | Version Version | Capacity | Moleta Knurl | C | D | kg kg | Repuesto Spare Part |
|----------------|------------------------|--------------------|----------|-----------------|----|----|----------|------------------------|
| 01290300 | M20 15.06.10 R | R | | | 10 | 10 | 0.3 | - Crsknsta (110070 |
| 01290400 | M20 15.06.10 L | L | | | 10 | 10 | 0.3 | |
| 01290500 | M20 15.06.12 R | R | Ø3÷100 | 15x6x10/6 | 12 | 16 | 0.3 | EAM20M21 |
| 01290600 | M20 15.06.12 L | L | 201100 | TOXOXTO | 12 | 16 | 0.3 | EPONEUME ! |
| 01290700 | M20 15,06.16 R | R | | 1 | 16 | 16 | 0.3 | |
| 01290800 | M20 15.06.16 L | L | | | 16 | 16 | 0.3 | |



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- Indicada tanto para moleteados axiales (F) como radiales (R)
- Moleteados axiales (F) solo para las formas RAA, RBL, RBR
- Ejes fijados mediante prisionero, lo que permite un cambio rápido de la moleta
- · Para moleteados hasta una cara lateral

Tipos de máquinas

Tornos automáticos, multihusillo, convencionales y CNC

Features

- · Form-knurling tool
- Possibility to vary clearance angle by means of a pair of screws placed in the shank
- · Suitable for both traverse (F) and radial (R) feed
- Traverse feed (F) only for RAA, RBL, RBR patterns
- Axles fixed with screws for an instant knurl change
- · For knurlings up to a vertical face

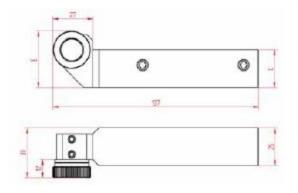
Machine Types

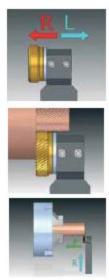
· Swiss type, multi-spindle, conventional and CNC lathes

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Tipos de moleteados según DIN 82 / Knurlinas accordina to DIN 82

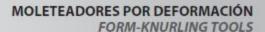
| | | | pos de n | loieteaut | os segun | DIIV OF / | remai ming | is account | ing to Di | W 02 | |
|-----------------|-------|--------|----------|-----------|----------|-----------|------------|------------|-----------|-------|-------|
| 553 | RAA | RBL30° | RBL45° | RBR30° | RBR45° | RGE30° | RGE45° | RGV30° | RGV45° | RKE | RKV |
| Tipo Pattern | | | | | | | | | | | |
| Moleta Knuri | AA | BR30° | BR45° | BL30° | BL45° | GV30° | GV45° | GE30° | GE45° | KV | KE |
| Avance Feed | FØ RØ | FØ RØ | FØ RØ | FØ RØ | FØ RØ | FO RØ | FO RØ | FO RØ | FO RØ | FO RØ | FO RE |







| Código Code | Reference Reference | | | Moleta Knurl | c | E | kg kg | Repu Spare | |
|----------------|------------------------|-----|--------|-----------------|----|----|----------|---------------|--|
| 0 070 00 | MI0 25.10.20 | R+L | Ø8+200 | 25×10×15/11 | 20 | 30 | 0.7 | EAMIO | |
| 01070200 | MI0 25. 0.25 | R+L | 60.200 | 22X10X13/11 | 25 | 35 | 0.8 | EAPIIO | |





- Herramienta de moletear por deformación para moleteaados interiores
- Indicada tanto para moleteados axiales (F) como radiales (R)
- Moleteados axiales (F) solo para las formas RAA, RBL, RBR
- Sustitución rápida de la moleta (eje asegurado mediante espárragos roscados)

Tipos de máquinas

Tornos automáticos, multihusillo, convencionales y CNC

Features

- Form-knurling tool for internal knurlings
- Suitable for both traverse (F) and radial (R) knurlings
- Traverse feeding (F) only for RAA, RBL and RBR patterns
- Axle fixed with screws for instant knurl change

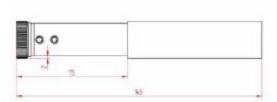
Machine Types

- Swiss type, multi-spindle, conventional and CNC lathes



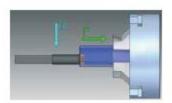
Tipos de moleteados según DIN 82 / Knurlings according to DIN 82

| | RAA | RBL30° | RBL45° | RBR30° | RBR45° | RGE30° | RGE45° | RGV30° | RGV45° | RKE | RKV |
|-----------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| Tipo Pattern | | | | | | | | | | | |
| Moleta Knuri | AA | BR30° | BR45° | BL30° | BL45° | GV30° | GV45° | GE30° | GE45° | KV | KE |
| Avance Feed | FØ RØ | FØ RØ | FØ RØ | FØ RØ | FØ RØ | FO RØ | FO RØ | FO RE | FO RØ | FO RØ | FO RE |











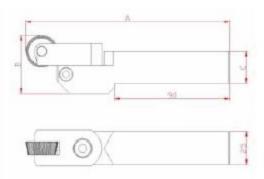
| Codigo Code | Referencia Reference | Version Version | Capacidad Capacity | Moleta Knuri | С | kg kg | Repu Spare | |
|----------------|-------------------------|--------------------|-----------------------|-----------------|----|----------|---------------|---|
| 01190100 | M19 25.10.20 | R+L | Ø27÷200 | 25x10x15/11 | 20 | 0.2 | EAM10 | 1 |
| 01190200 | M19 25.10.25 | R+L | Ø27÷200 | 23210213711 | 25 | 0.3 | EAMIU | 1 |

- · Herramienta de moletear por deformación para moleteados cónicos o frontales
- · Cabeza portamoletas giratoria para posicionar la moleta de acuerdo al angulo del cono de la pieza
- Doble sistema de bloqueo de la cabeza porta-moletas que confiere una gran rigidez al conjunto porta-moletas-mango
- · Posibilidad de montaje tanto a derechas como a izquierdas
- Eje de metal duro
- · Eje fijado mediante un prisionero para un cambio rapido de la moleta Tipos de máquinas
- Tornos automáticos, multihusillo, convencionales y CNC

- · Form-knurling tool for conical or frontal knurlings
- · Swivel head to place the knurl according to the workpiece's cone angle
- · Double head blocking system that conferes high rigidity to the whole tool assembly
- · Possibility to work in both right-handed and left-handed lathes
- · Carbide axle
- · Axle fixed with a screw for an instant knurl change

Machine Types

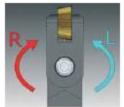
· Automatic, multi-spindle, conventional and CNC lathes













Tipos de moleteados según DIN 82 Knurlings according to DIN 82

| 10.000 | RKAA | RKBL30° | RKBR30° |
|-----------------|------|---------|---------|
| Tipo Pattern | | | |
| Moleta Knuri | KAA | KBR30° | KBL30° |
| Avance Feed | Р | Р | Р |



| Codigo Code | Reference Reference | Versión Version | Capacidad Capacity | Α | В | С | kg kg | Repuesto Spare Part |
|----------------|------------------------|--------------------|-----------------------|-----|----|----|----------|------------------------|
| 01150300 | M15 25.08.20 | R+L | | 160 | 46 | 20 | 0.6 | |
| 01150400 | M15 25.08.25 | R+L | | 160 | 46 | 25 | 0.8 | |
| 01150500 | M15 25.10.20 | R+L | CONICAL | 160 | 46 | 20 | 0.6 | EM15 25.08 HM |
| 01150600 | M15 25.10.25 | R+L | CONSIGNE | 160 | 46 | 25 | 0.8 | 0 |
| 01150700 | M15 25.12.20 | R+L | | 160 | 46 | 20 | 0.6 | |
| 01150800 | M15 25.12.25 | R+L | | 160 | 46 | 25 | 0.8 | |