# Recoules™

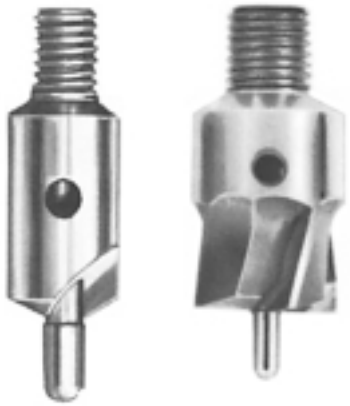
## RB 156
**M6 x 1 Metric**

*Using Cutters of .394" dia.*
*M6 x 1 Ground Thread*

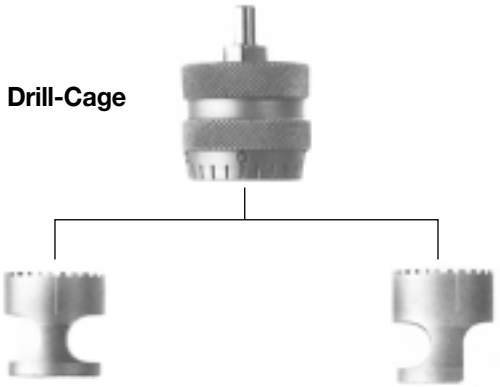
**Bulk:**
**Shank: Ø 4,8 mm - .188" dia**
**Tool attachment: M6 x 1**
**Stroke: 3,5 mm - .14"**
**Body off: 25 mm - 1" dia**
**Overall length:**
**maxi: 55 mm - 2.16"**
**mini: 51 mm - 2"**
**Weight: 75 g.**

**Advantages:**
- **Different mounting bases and overall dimensions reduced for very restricted areas.**

**Precision:**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on a self lubricating bronze body and a ball-thrust bearing.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment (1 scale division = .001").**
- **Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**



**Basic Drill-Cage**



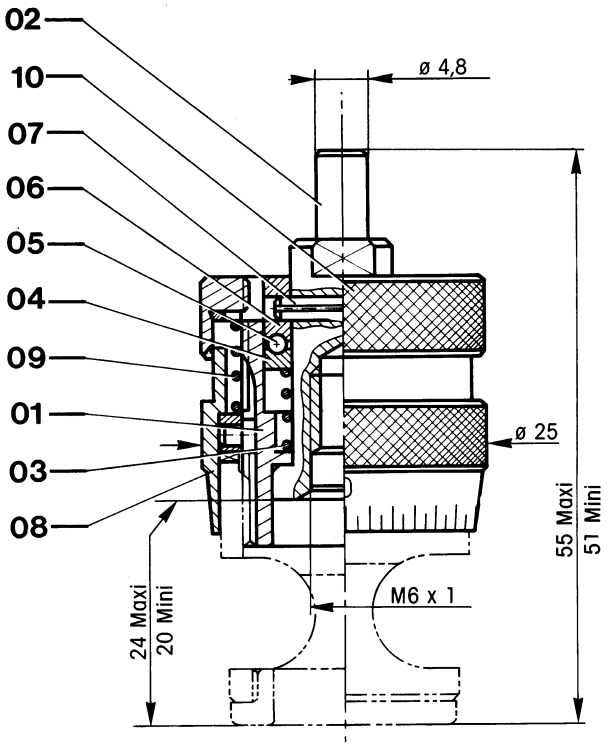
*Tapped Mounting Base*
*90.815.170*

*Offset Mounting Base*
*90.815.175*

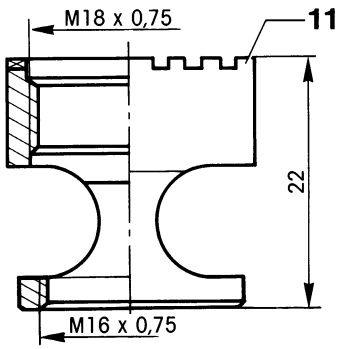
*Nylon Nose Piece*
*90.825.005*

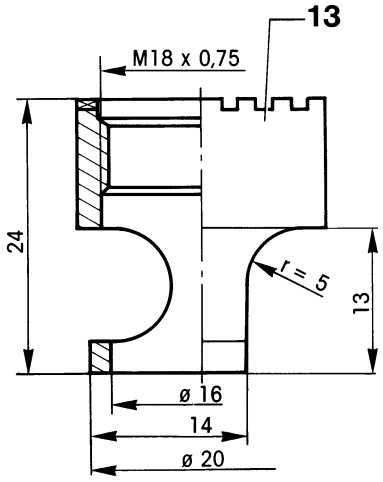
| Basic Drill-Cage | Tapped Mounting Base 90.815.170 | Nylon Nose Piece 90.825.005 | Offset Mounting Base 90.815.175 | | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|
| ● | ● | ● | | | | 10.000.010 |
| ● | | | ● | | | 10.000.100 |
| | | | | | | |
| | | | | | | |

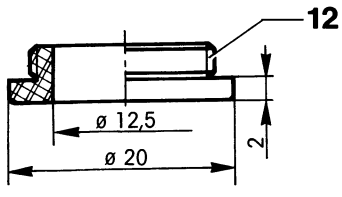
To order, please indicate codification number of the complete drill-cage assembly.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.005 | 01 | 1 | BODY |
| 90.025.005 | 02 | 1 | SPINDLE |
| 93.430.040 | 03 | 1 | SPRING |
| 90.280.005 | 04 | 1 | BALL THRUST BEARING |
| 90.245.100 | 05 | 18 | BALL 2 MM DIA |
| 93.440.020 | 06 | 1 | LOCK WASHER |
| 91.218.110 | 07 | 1 | PIN |
| 94.215.005 | 08 | 1 | VERNIER ASSEMBLY |
| 93.430.035 | 09 | 1 | SPRING |
| 90.495.005 | 10 | 1 | LOCKNUT |
| 90.815.170 | 11 | 1 | TAPPED MOUNTING BASE |
| 90.825.005 | 12 | 1 | NYLON NOSE PIECE |
| 90.815.175 | 13 | 1 | OFFSET MOUNTNG BASE |




For spare parts, please indicate codification number.

# Recoules™

## RB 206
**M6 x 1 Metric**

*Using Cutters of .394" dia.*
*M6 x 1 Ground Thread*

**Bulk:**
- **Shank: Ø 6 mm - .236" dia**
- **Tool attachment: M6 x 1**
- **Stroke: 6 mm - .236"**
- **Body off: Ø 21 mm - .826" dia**
- **Overall length:**
  - **maxi: 101 mm - 3.97"**
  - **mini: 95 mm - 3.74"**
- **Weight: 110 g.**

**Advantages:**
- **Different mounting bases and overall dimensions reduced for very restricted areas.**

**Precision:**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on a self lubricating bronze body and a ball-thrust bearing.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment (1 scale division = .001")**
- **Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

**Basic Drill-Cage**

*Mounting Base*
*Flat Bearing*
*90.815.005*

*Mounting Base*
*Offset Bearing*
*90.815.015**

*Tapped Mounting Base*
*90.815.020*

*Nylon Nose Piece*
*Flat Bearing*
*90.825.005*

| Basic Drill-Cage | Mounting Base Flat Bearing 90.815.005 | Mounting Base Offset Bearing 90.815.015 | Tapped Mounting Base 90.815.020 | Nylon Nose Piece 90.825.005 | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|
| ● | ● | | | | | 10.005.000 |
| ● | | ● | | | | 10.005.200* |
| ● | | | ● | ● | | 10.005.305 |
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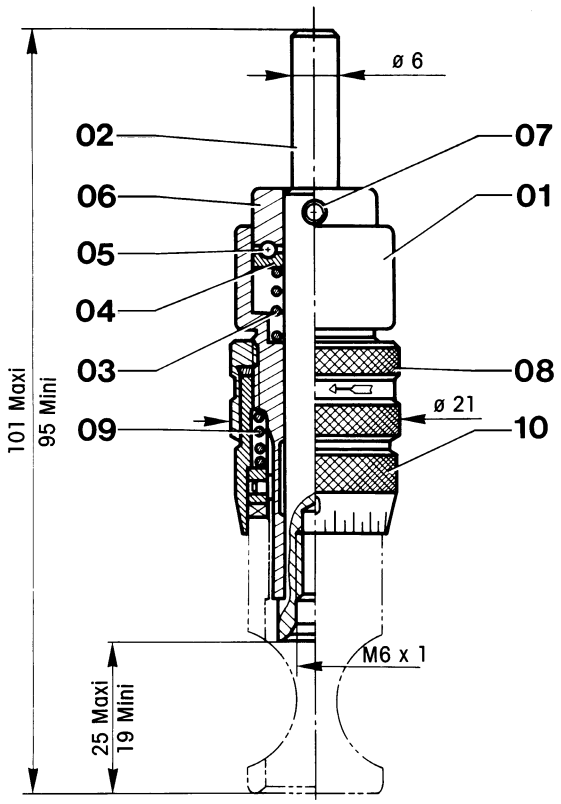
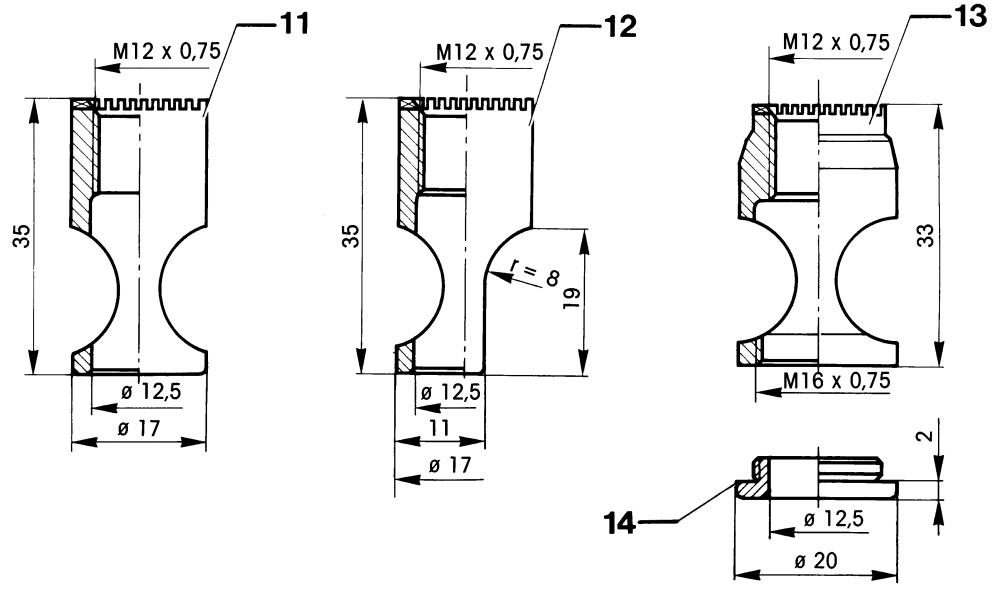
To order, please indicate codification number of the complete drill-cage assembly.

*On request only.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.010 | 01 | 1 | BODY |
| 90.025.015 | 02 | 1 | SPINDLE |
| 93.430.005 | 03 | 1 | SPRING |
| 90.280.010 | 04 | 1 | BALL THRUST BEARING |
| 90.245.100 | 05 | 18 | BALL 2 MM DIA |
| 93.440.005 | 06 | 1 | LOCK WASHER |
| 91.218.230 | 07 | 1 | PIN |
| 90.495.010 | 08 | 1 | LOCKNUT ASSEMBLY |
| 93.430.045 | 09 | 1 | SPRING |
| 94.215.010 | 10 | 1 | VERNIER ASSEMBLY |
| 90.815.005 | 11 | 1 | MOUNTING BASE FLAT BEARING |
| 90.815.015 | 12 | 1 | MOUNTING BASE OFFSET BEARING |
| 90.815.020 | 13 | 1 | TAPPED MOUNTING BASE |
| 90.825.005 | 14 | 1 | NYLON NOSE PIECE FLAT BEARING |




For spare parts, please indicate codification number.

# Recoules™

## RBI 206
**1/4”- 28 Inches**

*Using Cutters of .394” dia.*
*1/4” - 28 Ground Thread*

**Bulk:**
**Shank: Ø 6 mm - .236” dia**
**Tool attachment: 1/4” - 28**
**Stroke: 6 mm - .236”**
**Body off: Ø 21 mm - .826” dia**
**Overall length:**
**maxi: 101 mm - 3.97”**
**mini: 95 mm - 3.74”**
**Weight: 110 g.**

**Advantages:**
- **Different mounting bases and overall dimensions reduced for very restricted areas.**

**Precision:**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on a self lubricating bronze body and a ball-thrust bearing.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment (1 scale division = .001”)**
- **Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

**Basic Drill-Cage**

*Mounting Base*
*Flat Bearing*
*90.815.005*

*Mounting Base*
*Offset Bearing*
*90.815.015**

*Tapped Mounting Base*
*90.815.020*

*Nylon Nose Piece*
*Flat Bearing*
*90.825.005*

| Basic Drill-Cage | Mounting Base Flat Bearing 90.815.005 | Mounting Base Offset Bearing 90.815.015 | Tapped Mounting Base 90.815.020 | Nylon Nose Piece 90.825.005 | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|
| ● | ● | | | | | 10.005.050 |
| ● | | ● | | | | 10.005.250* |
| ● | | | ● | ● | | 10.005.355 |
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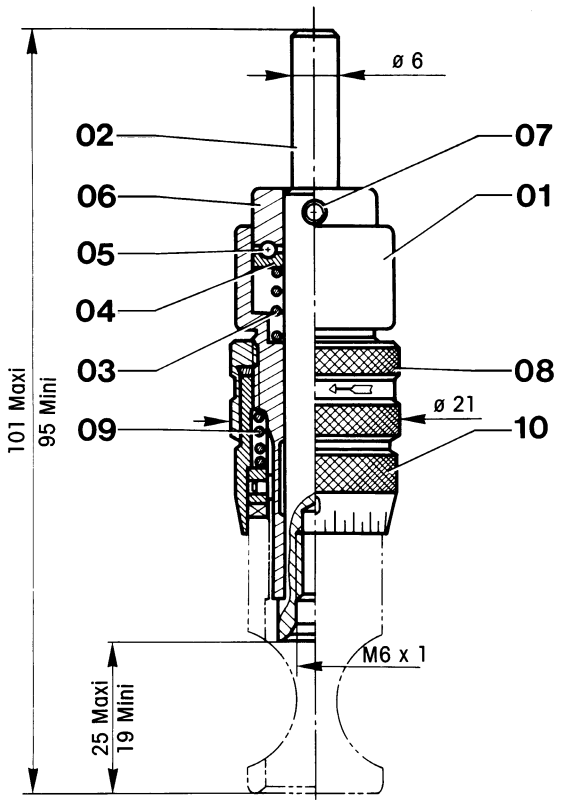
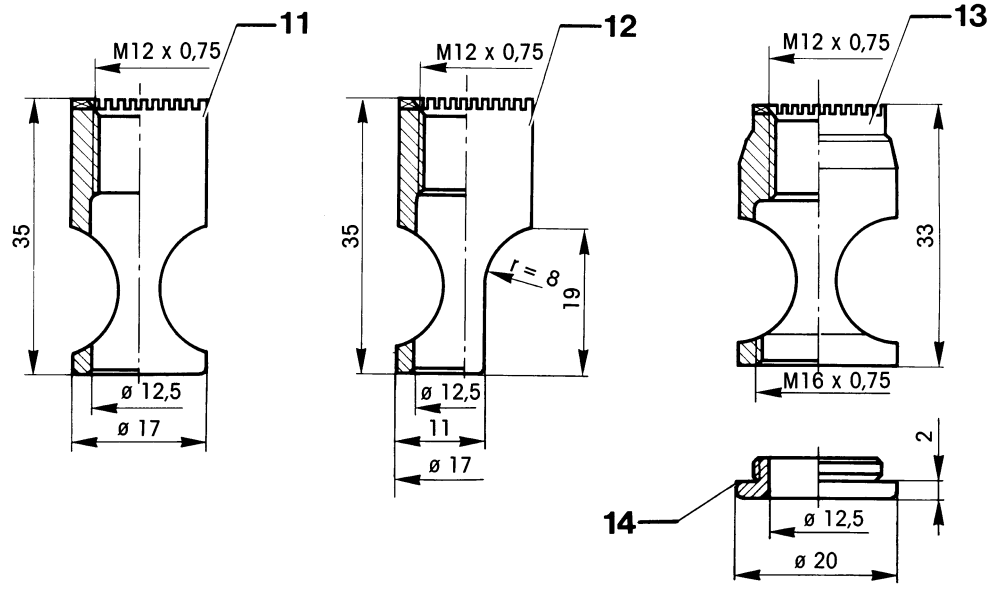
To order, please indicate codification number of the complete drill-cage assembly.

*On request only.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.010 | 01 | 1 | BODY |
| 90.025.016 | 02 | 1 | SPINDLE |
| 93.430.005 | 03 | 1 | SPRING |
| 90.280.010 | 04 | 1 | BALL THRUST BEARING |
| 90.245.100 | 05 | 18 | BALL 2 MM DIA |
| 93.440.005 | 06 | 1 | LOCK WASHER |
| 91.218.230 | 07 | 1 | PIN |
| 90.495.010 | 08 | 1 | LOCKNUT ASSEMBLY |
| 93.430.045 | 09 | 1 | SPRING |
| 94.215.010 | 10 | 1 | VERNIER ASSEMBLY |
| 90.815.005 | 11 | 1 | MOUNTING BASE FLAT BEARING |
| 90.815.015 | 12 | 1 | MOUNTING BASE OFFSET BEARING |
| 90.815.020 | 13 | 1 | TAPPED MOUNTING BASE |
| 90.825.005 | 14 | 1 | NYLON NOSE PIECE FLAT BEARING |




For spare parts, please indicate codification number.

# Recoules™

## RB 256
**M6 x 1 Metric**

**Bulk:**
**Shank: Ø 6 mm - .236" dia**
**Tool attachment: M6 x 1**
**Stroke: 7,5 mm - .3"**
**Body off: Ø 28 mm - 1.1" dia**
**Overall length:**
**maxi: 98 mm - 3.85"**
**mini: 91 mm - 3.58"**
**Weight: 165 g.**

**Advantages:**
- **Different mounting bases available and reduced overall dimensions.**

**Precision:**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on a self lubricating bronze body and a ball-thrust bearing.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment (1 scale division = .001")**
- **Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

*Using Cutters of .394" dia.*
*M6 x 1 Ground Thread*

**Basic Drill-Cage**

*Hard Chrome Steel Nose*
*90.825.015*

*Nylon Nose Piece*
*90.825.020*

| Basic Drill-Cage | Hard Chrome Steel Nose 90.825.015 | Nylon Nose Piece 90.825.020 | | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|
| ● | ● | | | | 10.010.010 |
| ● | | ● | | | 10.010.015 |
| | | | | | |
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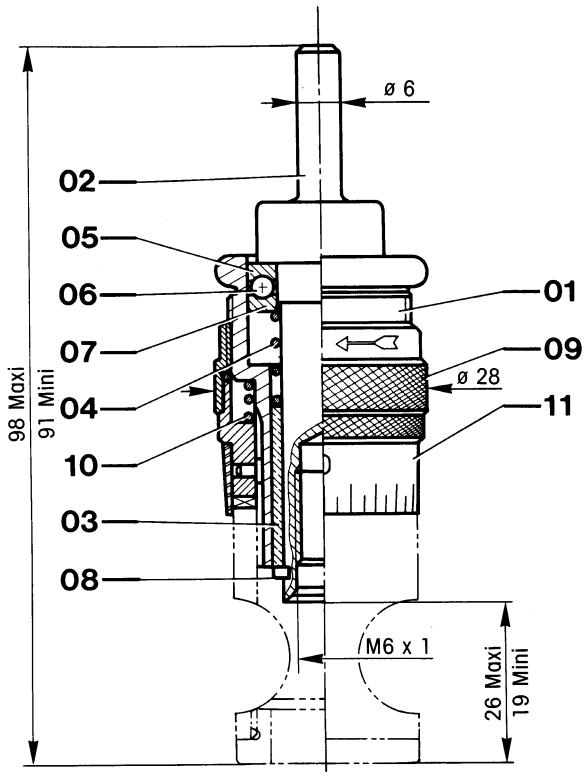
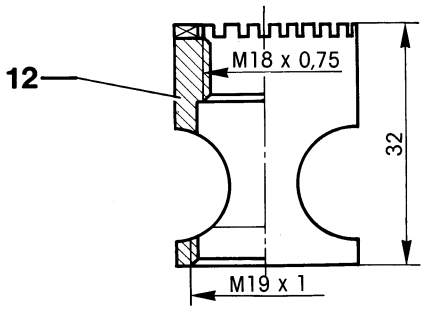
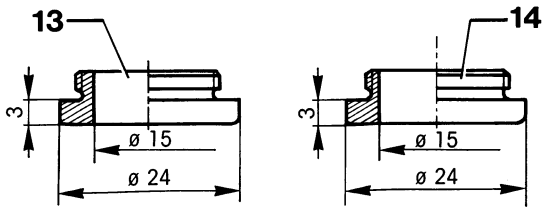
To order, please indicate codification number of the complete drill-cage assembly.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.020 | 01 | 1 | BODY |
| 90.025.025 | 02 | 1 | SPINDLE |
| 90.205.280 | 03 | 1 | BRONZE BUSHING |
| 93.430.045 | 04 | 1 | SPRING |
| 90.280.015 | 05 | 1 | BALL THRUST BEARING |
| 90.245.130 | 06 | 20 | BALL 2,5 MM DIA. |
| 90.280.020 | 07 | 1 | BALL THRUST BEARING |
| 90.013.029 | 08 | 1 | CIRCLIPS |
| 90.495.015 | 09 | 1 | LOCKNUT |
| 93.430.015 | 10 | 1 | SPRING |
| 94.215.015 | 11 | 1 | VERNIER |
| 90.815.060 | 12 | 1 | TAPPED MOUNTING BASE |
| 90.825.015 | 13 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.020 | 14 | 1 | NYLON NOSE PIECE |

For spare parts, please indicate codification number.

# Recoules™

## RBI 256
**1/4" -28 Inches**

**Bulk:**
**Shank: Ø 6 mm - .236" dia**
**Tool attachment: 1/4" - 28**
**Stroke: 7,5 mm - .3"**
**Body off: Ø 28 mm - 1.1" dia**
**Overall length:**
**maxi: 98 mm - 3.85"**
**mini: 91 mm - 3.58"**
**Weight: 165 g.**

**Advantages:**
- **Different mounting bases available and reduced overall dimensions.**

**Precision:**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on a self lubricating bronze body and a ball-thrust bearing.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment (1 scale division = .001")**
- **Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

*Using Cutters of .394" dia.*
*1/4" - 28 Ground Thread*

**Basic Drill-Cage**

*Hard Chrome Steel Nose*
*90.825.015*

*Nylon Nose Piece*
*90.825.020*

| Basic Drill-Cage | Hard Chrome Steel Nose 90.825.015 | Nylon Nose Piece 90.825.020 | | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|
| ● | ● | | | | 10.010.110 |
| ● | | ● | | | 10.010.115 |
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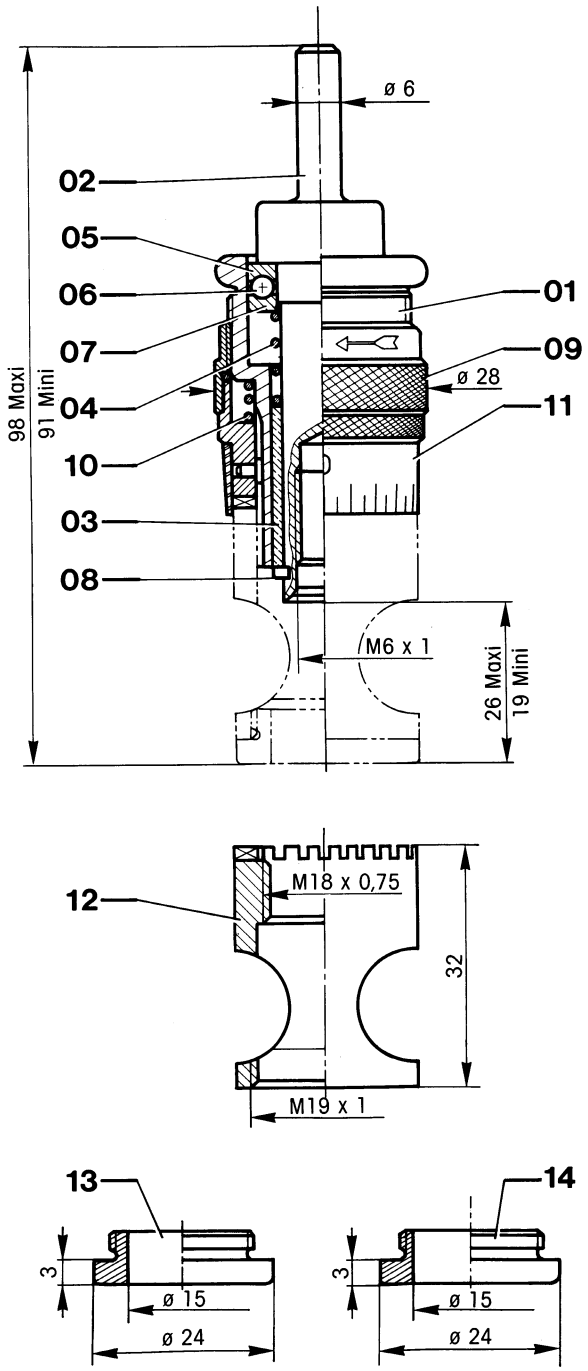
To order, please indicate codification number of the complete drill-cage assembly.



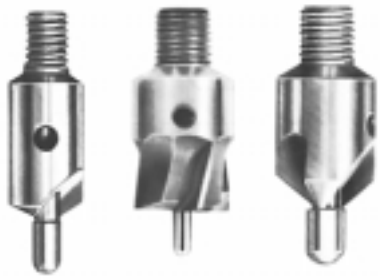

| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.020 | 01 | 1 | BODY |
| 90.025.095 | 02 | 1 | SPINDLE |
| 90.205.280 | 03 | 1 | BRONZE BUSHING |
| 93.430.045 | 04 | 1 | SPRING |
| 90.280.015 | 05 | 1 | BALL THRUST BEARING |
| 90.245.130 | 06 | 20 | BALL 2,5 MM DIA. |
| 90.280.020 | 07 | 1 | BALL THRUST BEARING |
| 90.013.029 | 08 | 1 | CIRCLIPS |
| 90.495.015 | 09 | 1 | LOCKNUT |
| 93.430.015 | 10 | 1 | SPRING |
| 94.215.015 | 11 | 1 | VERNIER |
| 90.815.060 | 12 | 1 | TAPPED MOUNTING BASE |
| 90.825.015 | 13 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.020 | 14 | 1 | NYLON NOSE PIECE |

For spare parts, please indicate codification number.

# Recoules™

## RB 257
**M6 x 1 Metric**

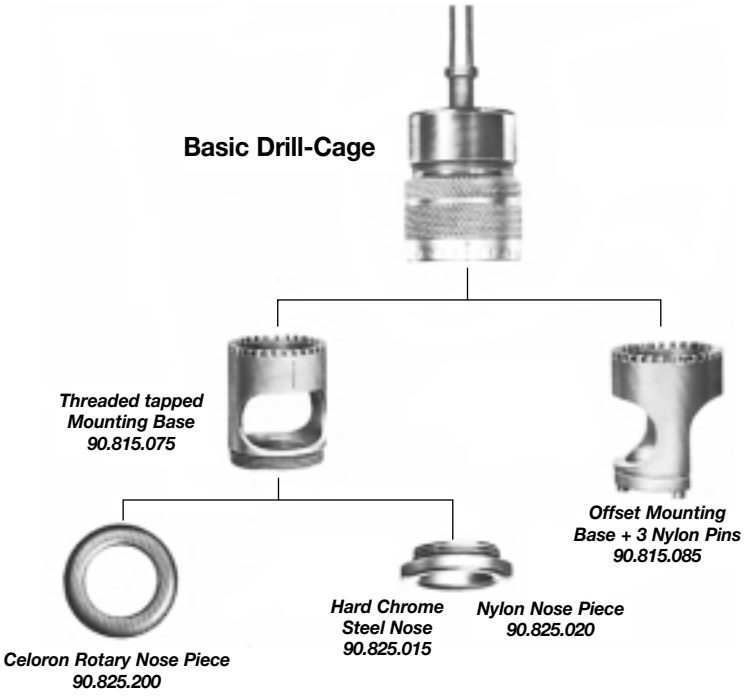
*Using Cutters of .394" dia.*
*M6 x 1 Ground Thread*



**Bulk:**
- Shank: Ø 6 mm - .236" dia
- Tool attachment: M6 x 1
- Stroke: 6 mm - .236"
- Body off: Ø 29 mm - 1.141" dia
- Overall length:
  - maxi: 92 mm - 3.62"
  - mini: 88 mm - 3.46"
- Weight: 155 g.

**Advantages:**
- Different mounting bases available and reduced overall dimensions.

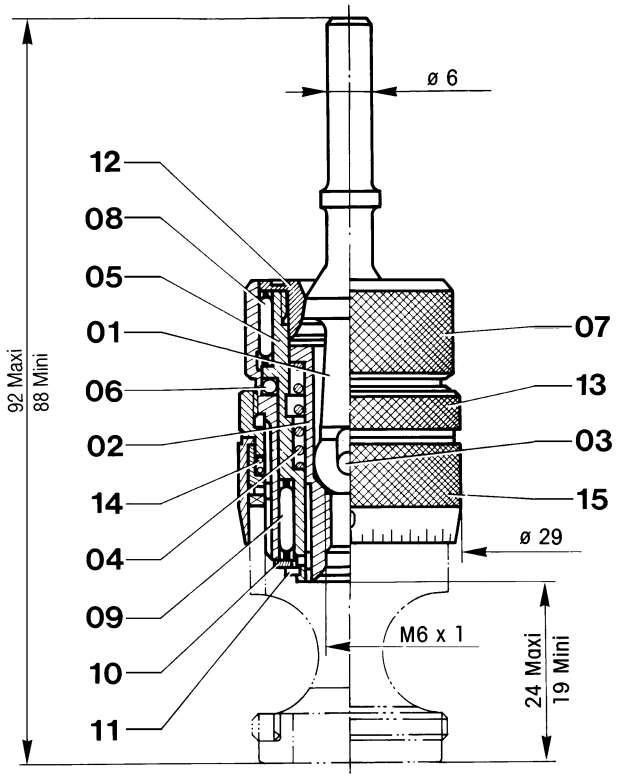
**Precision:**
- High precision drill-cage, body in special treated chromed steel, fully ground throughout. This ball mounted drill-cage includes two needle bearings for best utilization.
- Any wrong position of the hand holding the drilling machine is offset by the ball system and it has been specially designed for countersinking and spotfacing perfectly perpendicular to the bearing surfaces and concentric with the reamings of rivet and screw holes.
- Ground centring-cone of the cutter (120°) for perfect concentricity.
- Safety locking of microstop depth adjustment (one scale division = .001")
- Rotation and translation movements separated for best accuracy.



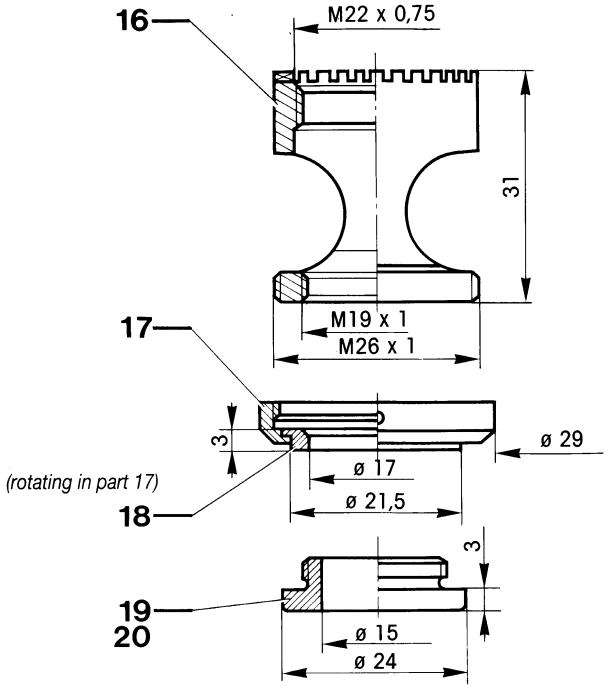

| Basic Drill-Cage | Threaded + Tapped Base 90.815.075 | Celoron Rotary Nose 90.825.200 | Hard Chrome Steel Nose 90.825.015 | Nylon Nose Piece 90.825.020 | Offset Base + 3 Nylon Pins 90.815.085 | | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|---|
| ● | ● | ● | | | | | | 10.015.010 |
| ● | ● | | ● | | | | | 10.015.015 |
| ● | ● | | | ● | | | | 10.015.020 |
| ● | | | | | ● | | | 10.015.200* |
| | | | | | | | | |
| | | | | | | | | |

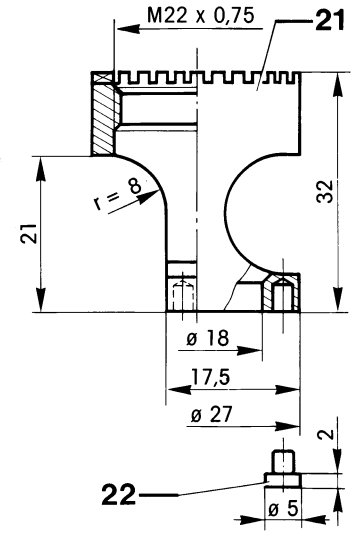
To order, please indicate codification number of the complete drill-cage assembly.

*On request only.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.025.030 | 01 | 1 | SPINDLE |
| 91.015.005 | 02 | 1 | SLEEVE |
| 91.215.010 | 03 | 1 | PIN |
| 93.430.045 | 04 | 1 | SPRING |
| 90.620.005 | 05 | 1 | BUSH |
| 90.245.100 | 06 | 31 | BALL 2 MM DIA. |
| 90.505.025 | 07 | 1 | BODY |
| 90.405.295 | 08 | 1 | NEEDLE CAGE |
| 90.405.165 | 09 | 1 | NEEDLE CAGE |
| 93.440.010 | 10 | 1 | WASHER |
| 93.605.050 | 11 | 1 | CIRCLIPS |
| 90.255.005 | 12 | 1 | PLUG |
| 90.495.020 | 13 | 1 | LOCKNUT |
| 93.430.020 | 14 | 1 | SPRING |
| 94.215.020 | 15 | 1 | VERNIER ASSEMBLY |
| 90.815.075 | 16 | 1 | THREADED + TAPPED BASE |
| 90.225.005 | 17 | 1 | RING |
| 90.825.210 | 18 | 1 | ROTARY NOSE PIECE |
| 90.825.015 | 19 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.020 | 20 | 1 | NYLON NOSE PIECE |
| 90.815.084 | 21 | 1 | OFFSET MOUNTING BASE |
| 93.045.015 | 22 | 3 | NYLON PIN |



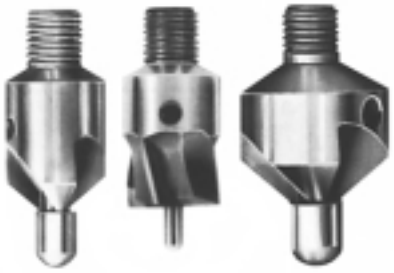




For spare parts, please indicate codification number.

# Recoules™

## RB 306
**M8 x 1 Metric**

*For use With M8 x 1 Ground Thread Cutters*



**Bulk:**
- Shank: Ø 6 mm - .236" dia
- Tool attachment: M8 x 1
- Stroke: 7,5 mm - .3"
- Body off: Ø 28 mm - 1.1" dia
- Overall length:
  - maxi: 98 mm - 3.85"
  - mini: 91mm - 3.58"
- Weight: 175 g.

**Advantages:**
- This cage has been designed for use with cutters of more than .394" dia. (10 mm).

**Precision:**
- Cemented, hardened and ground chrome-nickel steel spindle mounted on a self lubricating bronze body and a ball-thrust bearing.
- Ground centring-cone of the cutter (120°) for perfect concentricity.
- Microstop depth adjustment (1 scale division = .001")
- Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.

**Basic Drill-Cage**

*Threaded Mounting Base 90.815.090*

*Hard Chrome Steel Nose 90.825.050*

*Nylon Nose Piece 90.825.055*

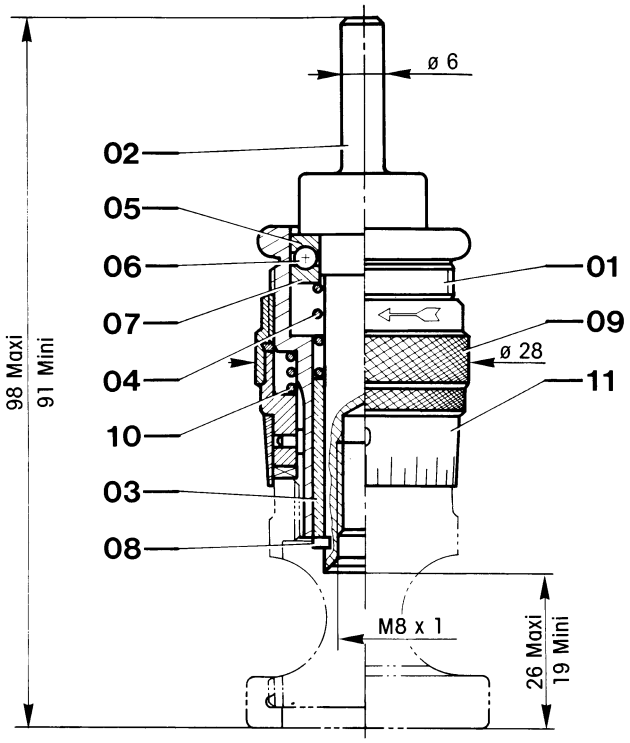
*Threaded Mounting Base 90.815.095*

*Hard Chrome Steel Nose 90.825.080*

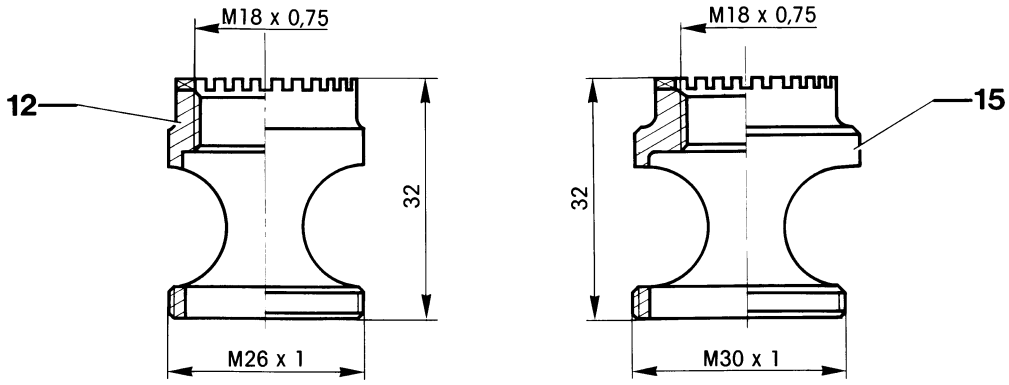
*Nylon Nose Piece 30.825.085*

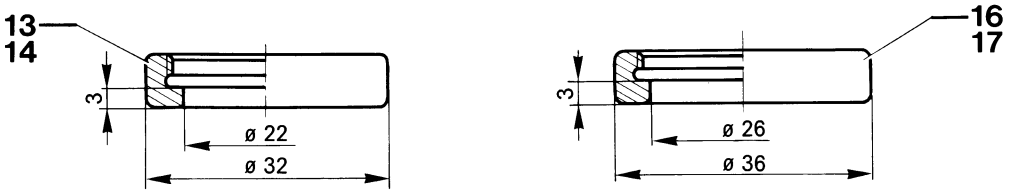
| Basic Drill-Cage | Mounting Base 90.815.090 | Steel Nose Piece 90.825.050 | Nylon Nose Piece 90.825.055 | Mounting Base 90.815.095 | Steel Nose Piece 90.825.080 | Nylon Nose Piece 90.825.085 | | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|---|---|
| ● | ● | ● | | | | | | | 10.025.010 |
| ● | ● | | ● | | | | | | 10.025.015 |
| ● | | | | ● | ● | | | | 10.025.105 |
| ● | | | | ● | | ● | | | 10.025.110 |
| | | | | | | | | | |
| | | | | | | | | | |

To order, please indicate codification number of the complete drill-cage assembly.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.020 | 01 | 1 | BODY |
| 90.025.035 | 02 | 1 | SPINDLE |
| 90.205.280 | 03 | 1 | BRONZE BUSHING |
| 93.430.045 | 04 | 1 | SPRING |
| 90.280.015 | 05 | 1 | BALL THRUST BEARING |
| 90.245.130 | 06 | 20 | BALL 2,5 MM DIA. |
| 90.280.020 | 07 | 1 | BALL THRUST BEARING |
| 90.013.029 | 08 | 1 | CIRCLIPS |
| 90.495.015 | 09 | 1 | LOCKNUT ASSEMBLY |
| 93.430.015 | 10 | 1 | SPRING |
| 94.215.015 | 11 | 1 | VERNIER ASSEMBLY |
| 90.815.090 | 12 | 1 | THREADED MOUNTING BASE |
| 90.825.050 | 13 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.055 | 14 | 1 | NYLON NOSE PIECE |
| 90.815.095 | 15 | 1 | THREADED MOUNTING BASE |
| 90.825.080 | 16 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.085 | 17 | 1 | NYLON NOSE PIECE |



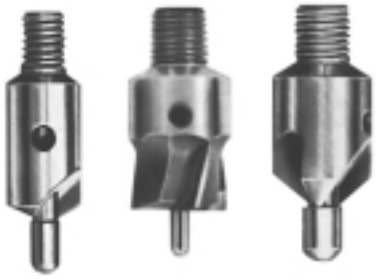




For spare parts, please indicate codification number.

# Recoules™

## RB 307
**M8 x 1 Metric**

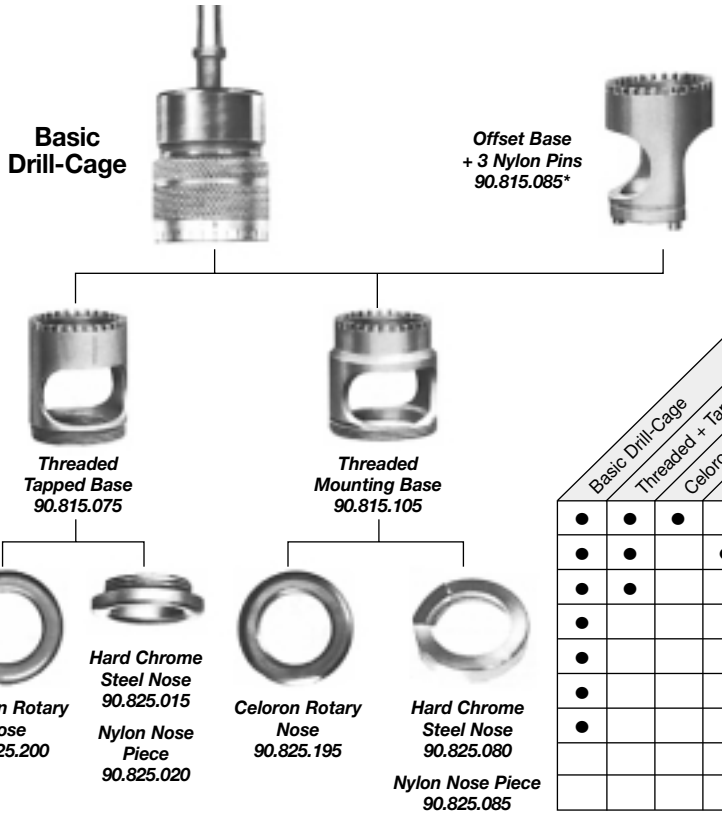
*For use With M8 x 1 Ground Thread Cutters*



**Bulk:**
- **Shank: Ø 6 mm - .236" dia**
- **Tool attachment: M8 x 1**
- **Stroke: 7 mm - .275"**
- **Body off: Ø 29 mm - 1.141" dia**
- **Overall length:**
  - **maxi: 92 mm - 3.62"**
  - **mini: 88 mm - 3.46"**
- **Weight: 155 g.**

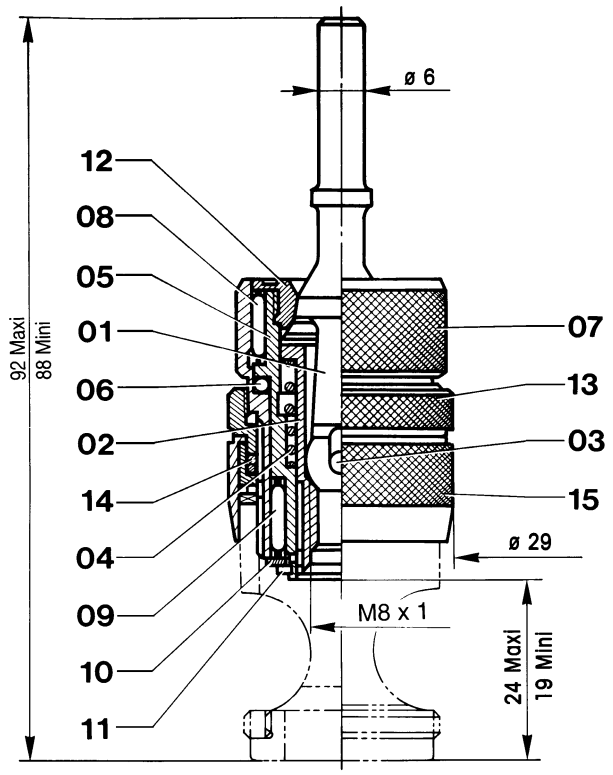
**Advantages:**
- **Different mounting bases available and reduced overall dimensions.**

**Precision:**
- **High precision drill-cage, body in special treated chromed steel, fully ground throughout. This ball mounted drill-cage includes two needle bearings for best utilization.**
- **Any wrong position of the hand holding the drilling machine is offset by the ball system, and it has been specially designed for countersinking and spotfacing perfectly perpendicular to the bearing surfaces and concentric with the reamings of rivet and screw holes.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Safety locking of microstop depth adjustment (one scale division = .001")**

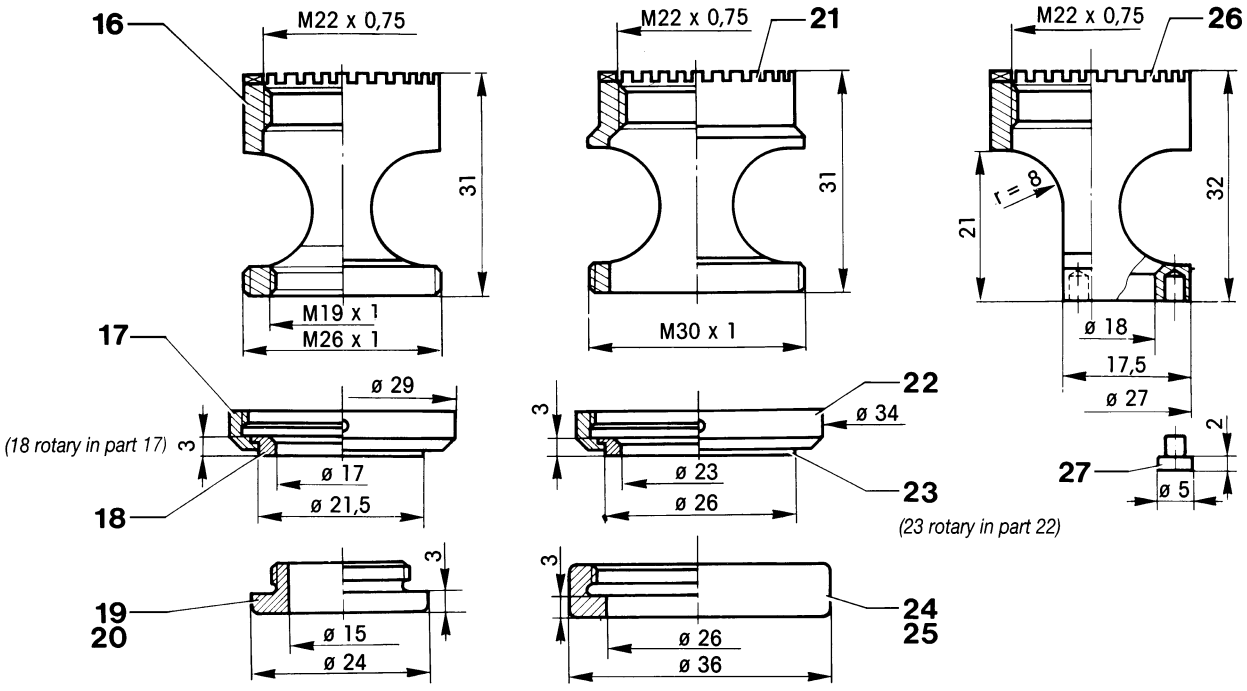



| Basic Drill-Cage | Threaded + Tapped Base 90.815.075 | Celoron Rotary Nose 90.825.200 | Hard Chrome Steel Nose 90.825.015 | Nylon Nose Piece 90.825.020 | Threaded Mounting Base 90.815.105 | Celoron Rotary Nose Piece 90.825.195 | Hard Chrome Steel Nose 90.825.080 | Nylon Nose Piece 90.825.085 | Offset Base + 3 Nylon Pins 90.815.085 | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | ● | ● | | | | | | | | 10.020.010 |
| ● | ● | | ● | | | | | | | 10.020.015 |
| ● | ● | | | ● | | | | | | 10.020.020 |
| ● | | | | | ● | ● | | | | 10.020.105 |
| ● | | | | | ● | | ● | | | 10.020.110 |
| ● | | | | | ● | | | ● | | 10.020.115 |
| ● | | | | | | | | | ● | 10.020.200* |
| | | | | | | | | | | |
| | | | | | | | | | | |

To order, please indicate codification number of the complete drill-cage assembly. *On request only.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.025.030 | 01 | 1 | SPINDLE |
| 91.015.010 | 02 | 1 | SLEEVE |
| 91.215.010 | 03 | 1 | PIN |
| 93.430.045 | 04 | 1 | SPRING |
| 90.620.005 | 05 | 1 | BUSH |
| 90.245.100 | 06 | 31 | BALL 2 MM DIA. |
| 90.505.025 | 07 | 1 | BODY |
| 90.405.295 | 08 | 1 | NEEDLE CAGE |
| 90.405.165 | 09 | 1 | NEEDLE CAGE |
| 93.440.010 | 10 | 1 | WASHER |
| 93.605.050 | 11 | 1 | CIRCLIPS |
| 90.255.005 | 12 | 1 | PLUG |
| 90.495.020 | 13 | 1 | LOCKNUT |
| 93.430.020 | 14 | 1 | SPRING |
| 94.215.020 | 15 | 1 | VERNIER ASSEMBLY |
| 90.815.075 | 16 | 1 | THREADED + TAPPED BASE |
| 90.225.005 | 17 | 1 | RING |
| 90.825.210 | 18 | 1 | ROTARY NOSE PIECE |
| 90.825.015 | 19 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.020 | 20 | 1 | NYLON NOSE PIECE |
| 90.815.105 | 21 | 1 | THREADED MOUNTING BASE |
| 90.225.010 | 22 | 1 | RING |
| 90.825.205 | 23 | 1 | ROTARY NOSE PIECE |
| 90.825.080 | 24 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.085 | 25 | 1 | NYLON NOSE PIECE |
| 90.815.084 | 26 | 1 | OFFSET MOUNTING BASE |
| 93.045.015 | 27 | 3 | NYLON PIN |

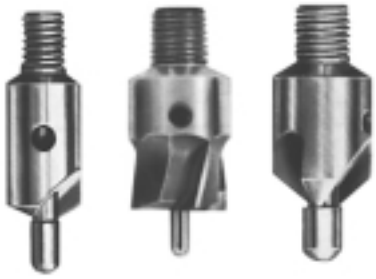



For spare parts, please indicate codification number.

# Recoules™

## RBI 307
**1/4" - 28 Inches**

*For use With 1/4" - 28 Ground Thread Cutters*



**Bulk:**
- **Shank: Ø 6 mm - .236" dia**
- **Tool attachment: 1/4" - 28**
- **Stroke: 7 mm - .275"**
- **Body off: Ø 29 mm - 1.141" dia**
- **Overall length:**
  - **maxi: 92 mm - 3.62"**
  - **mini: 88 mm - 3.46"**
- **Weight: 155 g.**

**Advantages:**
- **Different mounting bases available and reduced overall dimensions.**

**Precision:**
- **High precision drill-cage, body in special treated chromed steel, fully ground throughout. This ball mounted drill-cage includes two needle bearings for best utilization.**
- **Any wrong position of the hand holding the drilling machine is offset by the ball system, and it has been specially designed for countersinking and spotfacing perfectly perpendicular to the bearing surfaces and concentric with the reamings of rivet and screw holes.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Safety locking of microstop depth adjustment (one scale division = .001")**

**Basic Drill-Cage**

***Offset Base + 3 Nylon Pins 90.815.085****

***Threaded Tapped Base 90.815.075***

***Threaded Mounting Base 90.815.105***

***Celoron Rotary Nose 90.825.200***

***Hard Chrome Steel Nose 90.825.015***

***Nylon Nose Piece 90.825.020***

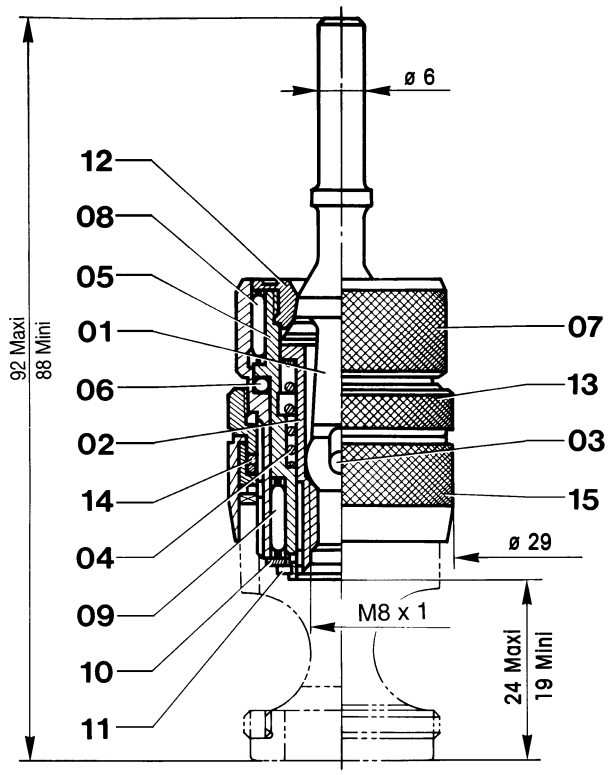
***Celoron Rotary Nose 90.825.195***

***Hard Chrome Steel Nose 90.825.080***

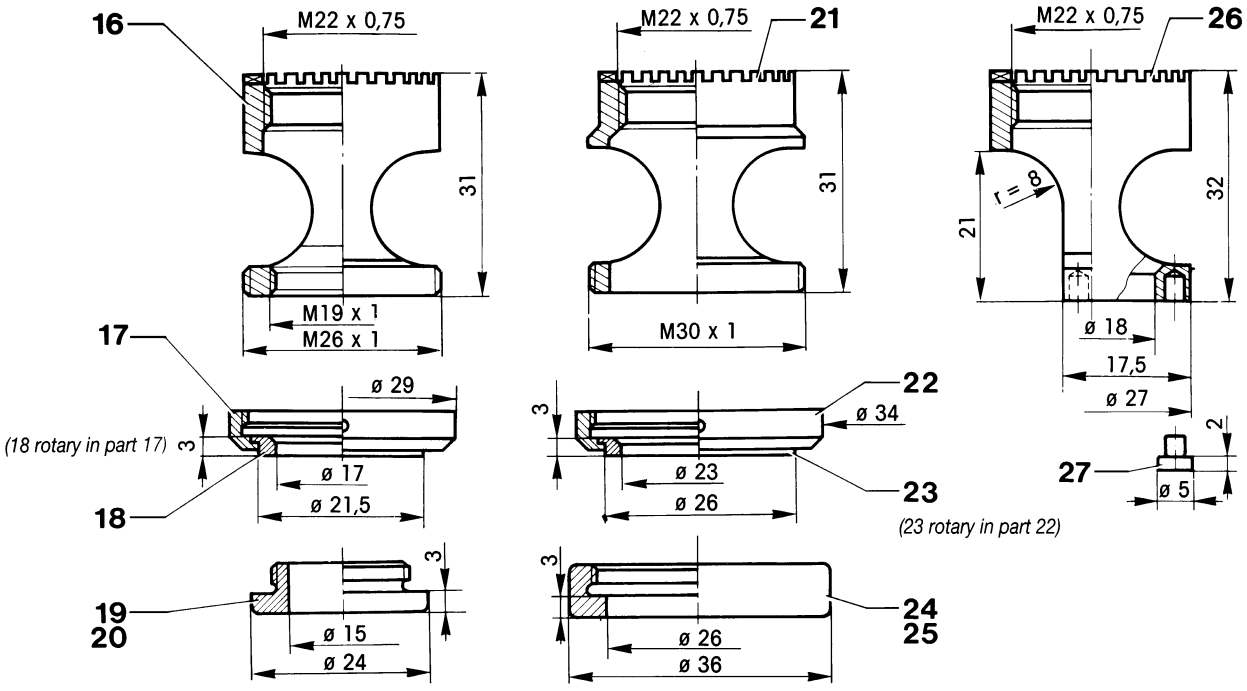
***Nylon Nose Piece 90.825.085***

| Basic Drill-Cage | Threaded + Tapped Base 90.815.075 | Celoron Rotary Nose 90.825.200 | Hard Chrome Steel Nose 90.825.015 | Nylon Nose Piece 90.825.020 | Threaded Mounting Base 90.815.105 | Celoron Rotary Nose Piece 90.825.195 | Hard Chrome Steel Nose 90.825.080 | Nylon Nose Piece 90.825.085 | Offset Base + 3 Nylon Pins 90.815.085 | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | ● | ● | | | | | | | | 10.020.060 |
| ● | ● | | ● | | | | | | | 10.020.065 |
| ● | ● | | | ● | | | | | | 10.020.070 |
| ● | | | | | ● | ● | | | | 10.020.155 |
| ● | | | | | ● | | ● | | | 10.020.160 |
| ● | | | | | ● | | | ● | | 10.020.165 |
| ● | | | | | | | | | ● | 10.020.250* |
| | | | | | | | | | | |
| | | | | | | | | | | |

To order, please indicate codification number of the complete drill-cage assembly. *On request only.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.025.030 | 01 | 1 | SPINDLE |
| 91.015.006 | 02 | 1 | SLEEVE |
| 91.215.010 | 03 | 1 | PIN |
| 93.430.045 | 04 | 1 | SPRING |
| 90.620.005 | 05 | 1 | BUSH |
| 90.245.100 | 06 | 31 | BALL 2 MM DIA. |
| 90.505.025 | 07 | 1 | BODY |
| 90.405.295 | 08 | 1 | NEEDLE CAGE |
| 90.405.165 | 09 | 1 | NEEDLE CAGE |
| 93.440.010 | 10 | 1 | WASHER |
| 93.605.050 | 11 | 1 | CIRCLIPS |
| 90.255.005 | 12 | 1 | PLUG |
| 90.495.020 | 13 | 1 | LOCKNUT |
| 93.430.020 | 14 | 1 | SPRING |
| 94.215.020 | 15 | 1 | VERNIER ASSEMBLY |
| 90.815.075 | 16 | 1 | THREADED + TAPPED BASE |
| 90.225.005 | 17 | 1 | RING |
| 90.825.210 | 18 | 1 | ROTARY NOSE PIECE |
| 90.825.015 | 19 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.020 | 20 | 1 | NYLON NOSE PIECE |
| 90.815.105 | 21 | 1 | THREADED MOUNTING BASE |
| 90.225.010 | 22 | 1 | RING |
| 90.825.205 | 23 | 1 | ROTARY NOSE PIECE |
| 90.825.080 | 24 | 1 | HARD CHROME STEEL NOSE PIECE |
| 90.825.085 | 25 | 1 | NYLON NOSE PIECE |
| 90.815.084 | 26 | 1 | OFFSET MOUNTING BASE |
| 93.045.015 | 27 | 3 | NYLON PIN |




For spare parts, please indicate codification number.

# Recoules™

## RB 406
**M10 x 1 Metric**

**Bulk:**
**Tool attachment: M10 x 1**
**Stroke: 14 mm - .551”**
**Body off: Ø 36 mm - 1.417” dia**
**Overall length:**
**maxi: 163 mm - 6.417”**
**mini: 136mm - 5.354”**
**Weight: 545 g.**

**Advantages:**
- **This drill-cage has been especially designed for use with cutters of 7/8” to 1 1/2” dia.**
- **Different mounting bases available and reduced overall dimensions.**

**Precision:**
- **Removable adaptor with two possibilities of use:**
  **A. Chuck-clamping of the straight shank with three wrench flats,**
  **B. Direct fitting on the spindle without using the drill chuck.**
  **This gives perfect concentricity and noticeably reduces the length and weight of the drill-and-tool assembly. Results are higher performance, improved machining and much less fatigue for the operator.**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on three needle-bearings and a ball thrust bearing.**
- **Microstop depth adjustment each scale division corresponding to a displacement of .001”.**
- **Safety locking ensured by a locknut equipped with a seal.**
  **This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**



***For Use With M10 x 1 Ground Thread Cutters***

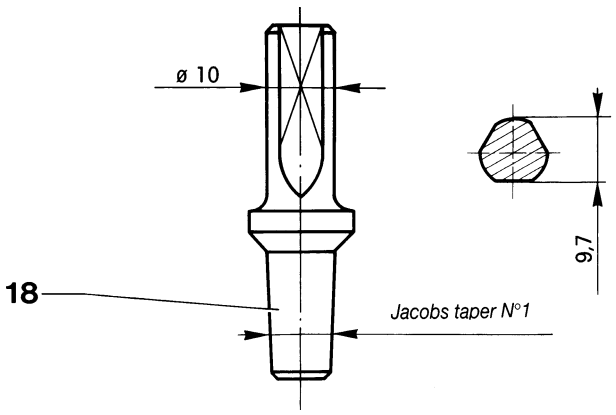
**Basic Drill-Cage**

***Mounting Base 90.815.150***

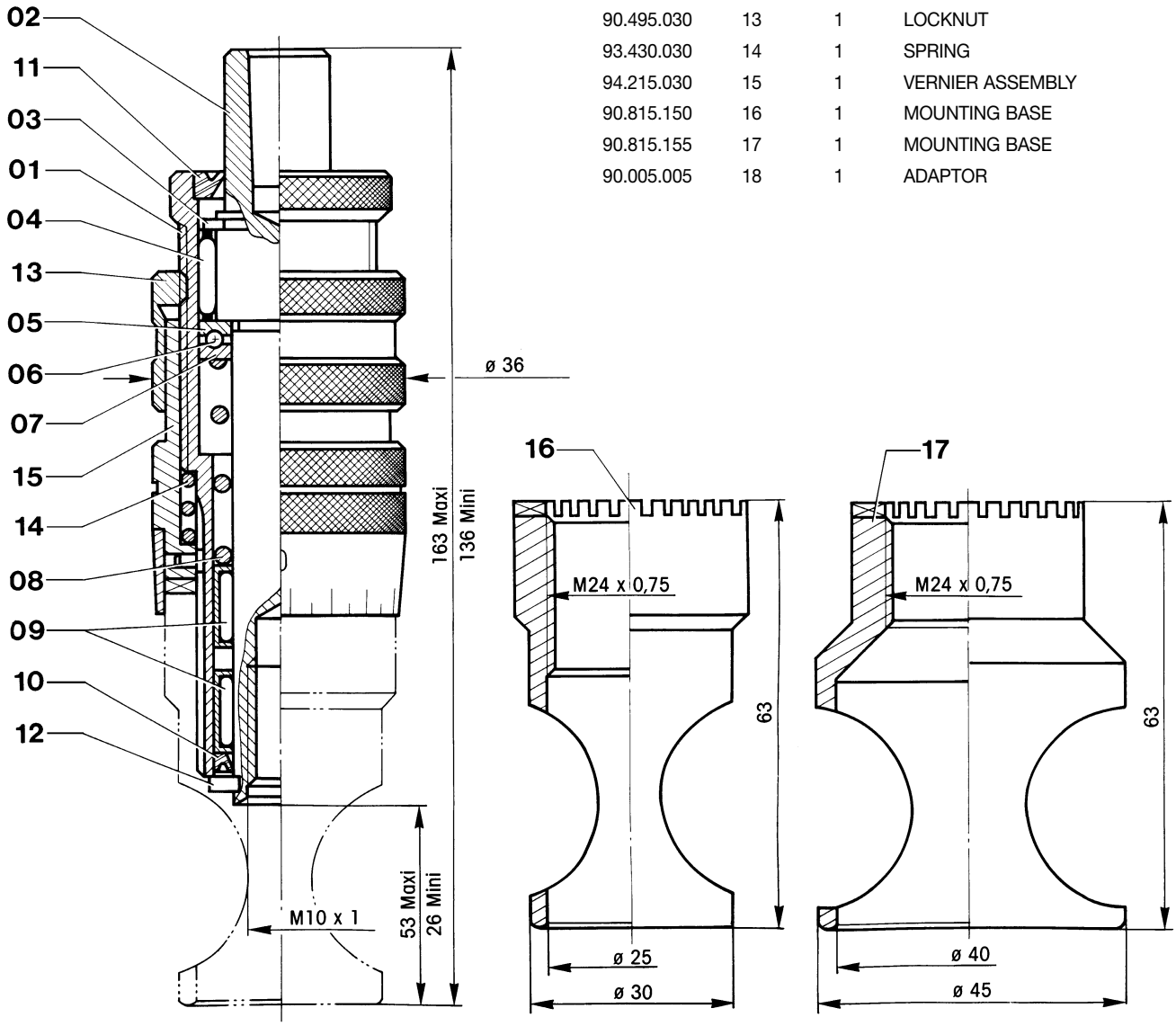
***Mounting Base 90.815.155***

| Basic Drill-Cage + Adaptor | Mounting Base 90.815.150 | Mounting Base 90.815.155 | | | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|
| ● | ● | | | | 10.030.010 |
| ● | | ● | | | 10.030.105 |
| | | | | | |
| | | | | | |

To order, please indicate codification number of the complete drill-cage assembly.




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.035 | 01 | 1 | BODY |
| 90.025.045 | 02 | 1 | SPINDLE |
| 93.605.065 | 03 | 1 | CIRCLIPS |
| 90.405.270 | 04 | 1 | NEEDLE CAGE |
| 90.280.025 | 05 | 1 | BALL THRUST BEARING |
| 90.245.130 | 06 | 23 | BALL 2,5 MM DIA. |
| 90.280.030 | 07 | 1 | BALL THRUST BEARING |
| 93.430.055 | 08 | 1 | SPRING |
| 90.615.085 | 09 | 2 | NEEDLE BEARING |
| 90.230.085 | 10 | 1 | SEAL RING |
| 90.230.120 | 11 | 1 | SEAL RING |
| 90.430.005 | 12 | 1 | U-LINK |
| 90.495.030 | 13 | 1 | LOCKNUT |
| 93.430.030 | 14 | 1 | SPRING |
| 94.215.030 | 15 | 1 | VERNIER ASSEMBLY |
| 90.815.150 | 16 | 1 | MOUNTING BASE |
| 90.815.155 | 17 | 1 | MOUNTING BASE |
| 90.005.005 | 18 | 1 | ADAPTOR |




For spare parts, please indicate codification number.

# Recoules™

## RB 356 HP 21 & RB 356 HP 38

**M6 x 1 Metric**

**Bulk:**

**RB 356 HP 21**

| | |
|---|---|
| **Tool attachment:** | **M6 x 1** |
| **Stroke:** | **21 mm - .826”** |
| **Body off:** | **Ø 27 mm - 1.063” dia.** |
| **Overall length:** | **maxi: 136 mm - 5.354”** |
| | **mini: 116 mm - 4.567”** |
| **Weight:** | **300 g.** |

**RB 356 HP 38**

| | |
|---|---|
| **Tool attachment:** | **M6 x 1** |
| **Stroke:** | **38 mm - 1.500”** |
| **Body off:** | **Ø 27 mm - 1.063” dia.** |
| **Overall length:** | **maxi: 183 mm - 7.204”** |
| | **mini: 168 mm - 6.614”** |
| **Weight:** | **375 g.** |

**Advantages:**

- **Mounted on three needle bearings, this high precision drill-cage ensures perfect concentricity.**
- **Removable adaptor with two possibilities of use:**
  **A. Chuck-clamping of the straight shank with three wrench flats,**
  **B. Direct fitting on the spindle without using the drill chuck.**
  **This gives perfect concentricity and noticeably reduces the length and weight of the drill and tool assembly.**
  **Results are higher performance, improved machining and much less fatigue for the operator.**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on three needle bearings and a ball thrust bearing. Body of specially treated chrome steel.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment: (1 scale division = .001”).**
- **Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

*For Use With Cutters of M6 x 1 Ground Thread*

On request all our cutter attachments can be 1/4” - 28 thread.

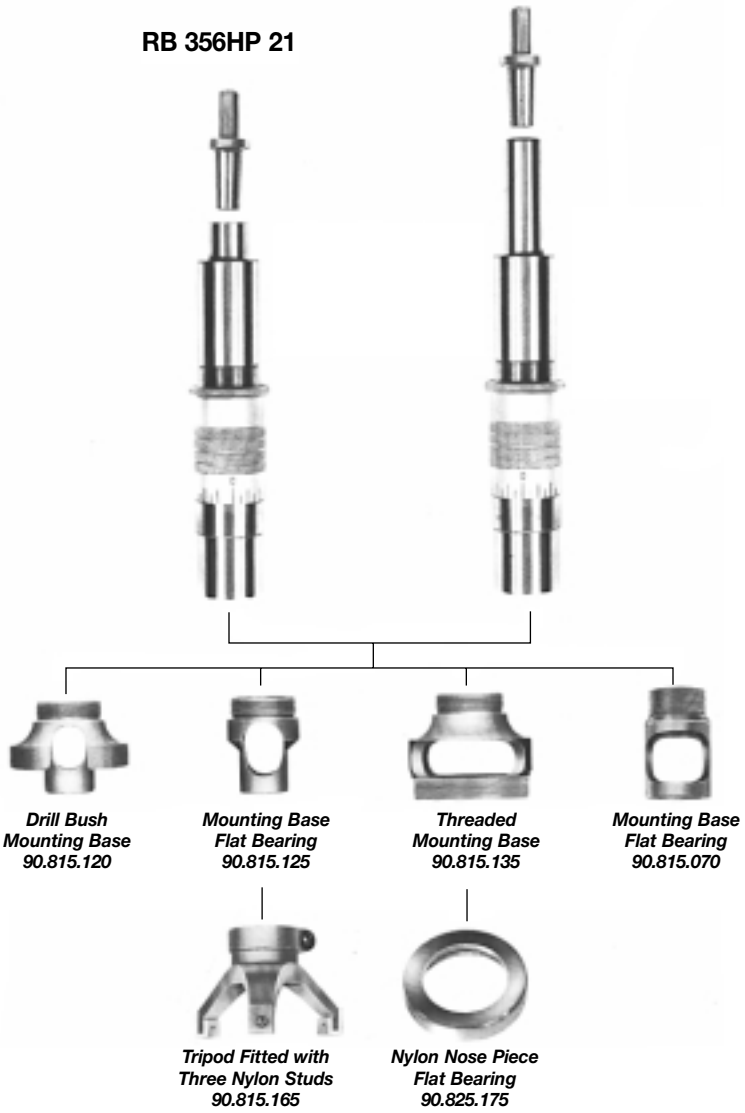
# *Microstop Drill-Cage for Drilling, Reaming and Countersinking*

RB 356 HP 21 and RB 356 HP 38 Metric

**Basic Drill-Cage**

**RB 356HP 38**

**RB 356HP 21**



*Drill Bush Mounting Base 90.815.120*

*Mounting Base Flat Bearing 90.815.125*

*Threaded Mounting Base 90.815.135*

*Mounting Base Flat Bearing 90.815.070*

*Tripod Fitted with Three Nylon Studs 90.815.165*

*Nylon Nose Piece Flat Bearing 90.825.175*

**Available on separate order:**

*Drill Bush*

*Spanner for Fitting of Drill Bushes 90.469.020*

**How to order a drill bush:**

**example: drill bush of 3,17 mm dia.**

**A. Basic Code: 10.110**

**+**

**B. Bush Dia in 100th of mm: 317**

**=**

**10.110.317**
**Code to indicate**

**RB 356 HP 21**

| Basic Drill-Cage + Adaptor | Drill Bush Mounting Base 90.815.120 | Mounting Base Flat Bearing 90.815.125 | Tripod + 3 Nylon Studs 90.815.165 | Threaded Mounting Base 90.815.135 | Nylon Nose Piece 90.825.175 | Mounting Base Flat Bearing 90.815.070 | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|
| ● | | | | | | | 10.040.000 |
| ● | ● | | | | | | 10.040.100 |
| ● | | ● | | | | | 10.040.200 |
| ● | | ● | ● | | | | 10.040.210 |
| ● | | | | ● | ● | | 10.040.405 |
| ● | | | ● | | | | 10.040.505 |
| ● | | | | | | ● | 10.040.600 |
| | | | | | | | |
| | | | | | | | |

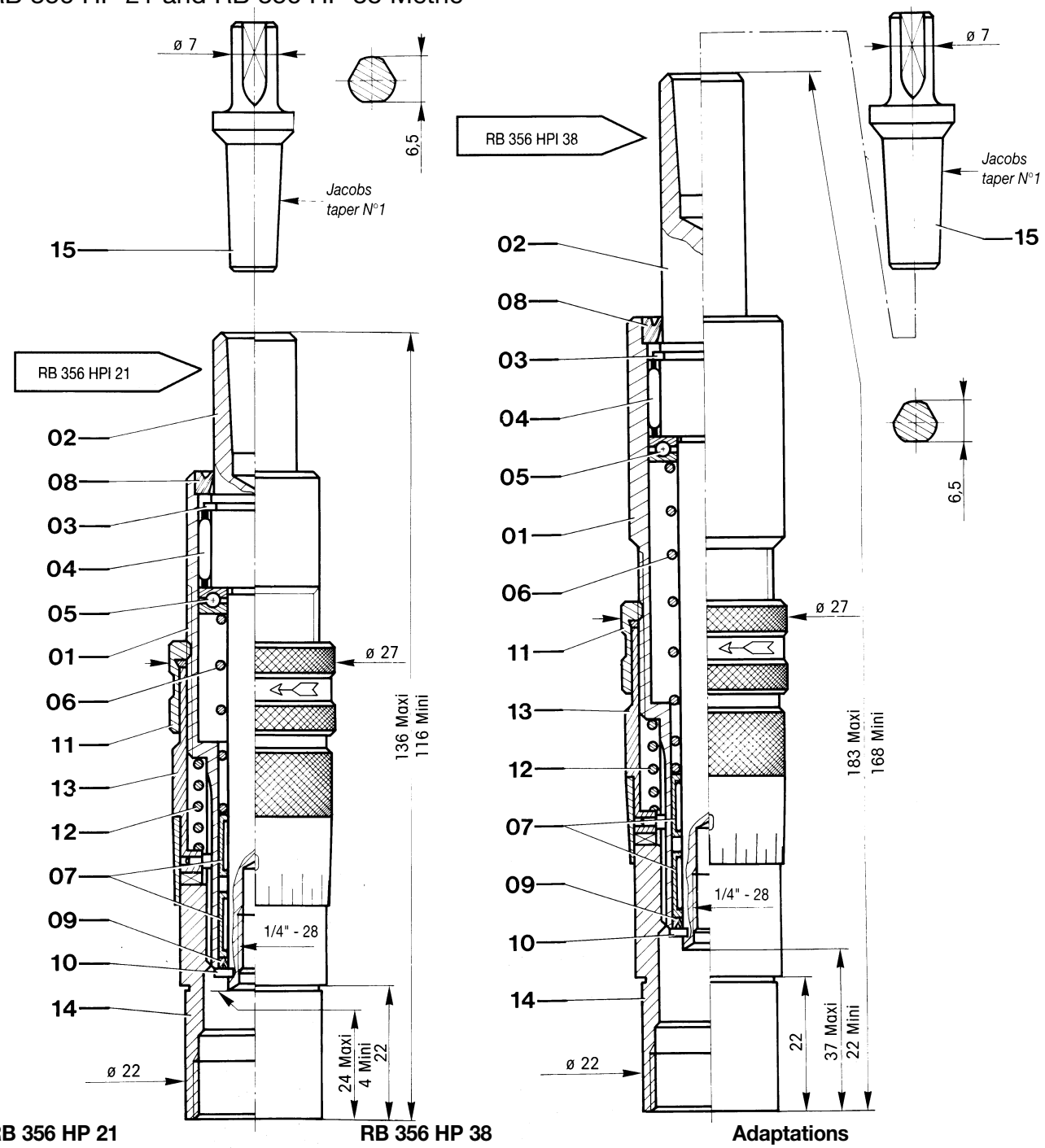
**RB 356 HP 38**

| Basic Drill-Cage + Adaptor | Drill Bush Mounting Base 90.815.120 | Mounting Base Flat Bearing 90.815.125 | Tripod + 3 Nylon Studs 90.815.165 | Threaded Mounting Base 90.815.135 | Nylon Nose Piece 90.825.175 | Mounting Base Flat Bearing 90.815.070 | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|
| ● | | | | | | | 10.045.000 |
| ● | ● | | | | | | 10.045.100 |
| ● | | ● | | | | | 10.045.200 |
| ● | | ● | ● | | | | 10.045.210 |
| ● | | | | ● | ● | | 10.045.405 |
| ● | | | ● | | | | 10.045.505 |
| ● | | | | | | ● | 10.045.600 |
| | | | | | | | |
| | | | | | | | |

For spare parts, please indicate codification number.

# *Microstop Drill-Cage for Drilling, Reaming and Countersinking*

RB 356 HP 21 and RB 356 HP 38 Metric




**RB 356 HP 21**

| Code Reference | REP Index | NB QTY | Description |
|---|---|---|---|
| 90.505.050 | 01 | 1 | BODY |
| 90.025.065 | 02 | 1 | SPINDLE |
| 93.605.050 | 03 | 1 | CIRCLIPS |
| 90.405.170 | 04 | 1 | NEEDLE CAGE |
| 90.280.035 | 05 | 1 | BALL THRUST BEARING |
| 93.430.070 | 06 | 1 | SPRING |
| 90.615.050 | 07 | 2 | NEEDLE BUSHES |
| 90.230.085 | 08 | 1 | SEAL RING |
| 90.230.045 | 09 | 1 | SEAL RING |
| 90.456.030 | 10 | 1 | CIRCLIPS |
| 90.495.035 | 11 | 1 | LOCKNUT |
| 93.430.035 | 12 | 1 | SPRING |
| 94.215.035 | 13 | 1 | VERNIER ASSEMBLY |
| 90.815.115 | 14 | 1 | MOUNTING BASE |
| 90.005.010 | 15 | 1 | ADAPTOR |

**RB 356 HP 38**

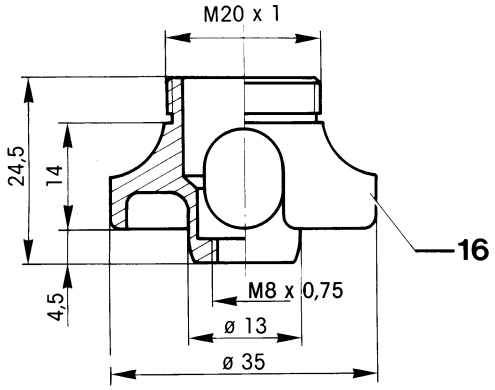
| Code Reference | REP Index | NB QTY | Description |
|---|---|---|---|
| 90.505.045 | 01 | 1 | BODY |
| 90.025.060 | 02 | 1 | SPINDLE |
| 93.605.050 | 03 | 1 | CIRCLIPS |
| 90.405.170 | 04 | 1 | NEEDLE CAGE |
| 90.280.035 | 05 | 1 | BALL THRUST BEARING |
| 93.430.065 | 06 | 1 | SPRING |
| 90.615.050 | 07 | 2 | NEEDLE BUSHES |
| 90.230.085 | 08 | 1 | SEAL RING |
| 90.230.045 | 09 | 1 | SEAL RING |
| 90.456.030 | 10 | 1 | CIRCLIPS |
| 90.495.035 | 11 | 1 | LOCKNUT |
| 93.430.035 | 12 | 1 | SPRING |
| 94.215.035 | 13 | 1 | VERNIER ASSEMBLY |
| 90.815.065 | 14 | 1 | MOUNTING BASE |
| 90.005.010 | 15 | 1 | ADAPTOR |

**Adaptations**

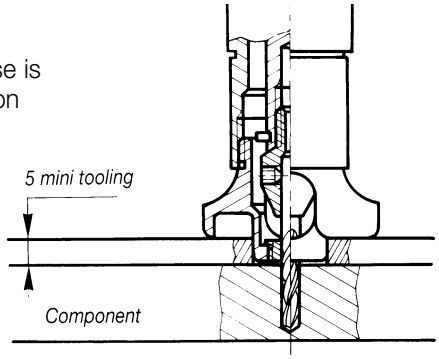
| Code Reference | REP Index | NB QTY | Description |
|---|---|---|---|
| 90.815.120 | 16 | 1 | MOUNTING BASE |
| 90.815.125 | 17 | 1 | MOUNTING BASE |
| 90.815.160 | 18 | 1 | MOUNTING BASE |
| 90.825.190 | 19 | 3 | NYLON STUD |
| 94.235.324 | 20 | 3 | SCREW |
| 94.232.085 | 21 | 1 | SCREW |
| 90.815.135 | 22 | 1 | MOUNTING BASE |
| 90.825.175 | 23 | 1 | NYLON NOSE PIECE |
| 90.815.070 | 24 | 1 | MOUNTING BASE |

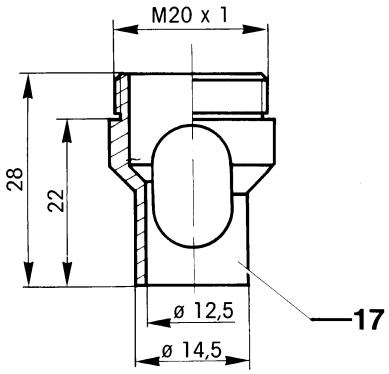
# Microstop Drill-Cage for Drilling, Reaming and Countersinking

RB 356 HP 21 and RB 356 HP 38 Metric

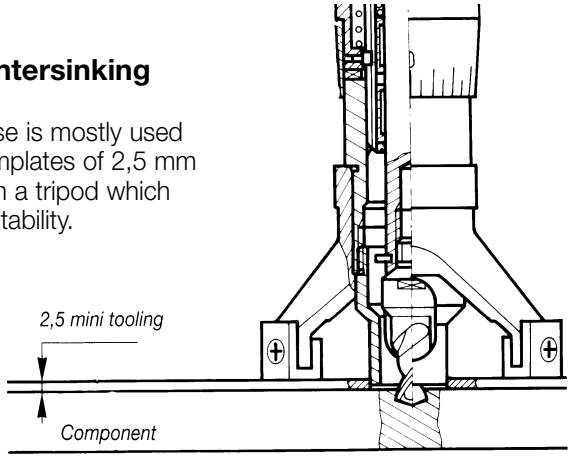


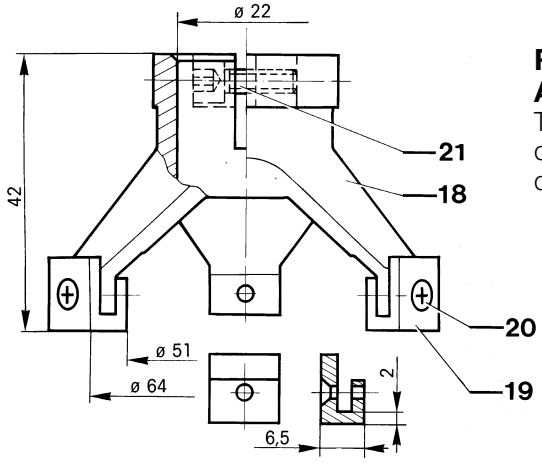

**Drilling Application**
This drill bush mounting base is used with bushes codification number 10.110 + Ø.



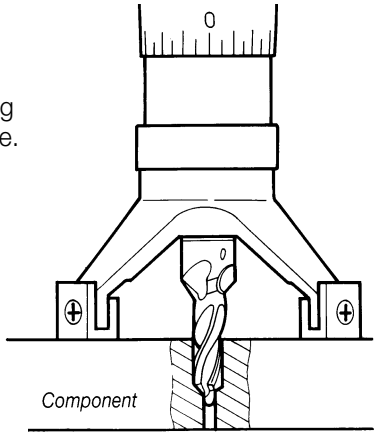



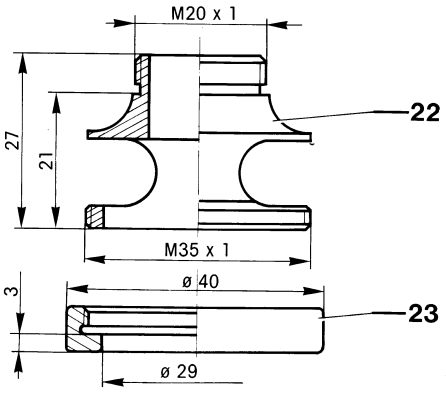

**Drilling + Countersinking Application**
This mounting base is mostly used with aluminum templates of 2,5 mm thickness and with a tripod which ensures a better stability.

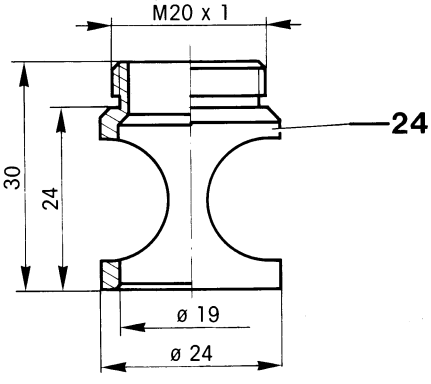



**Reaming + Countersinking Application**
This tripod is used for reaming + countersinking application. Positioning of the cutter with a pilot in the prehole.



# Recoules™

## RB 356 HPI 21 & RB 356 HPI 38
**1/4” - 28 Inches**

**Bulk:**

**RB 356 HPI 21**

| | |
|---|---|
| **Tool attachment:** | **1/4” - 28 F** |
| **Stroke:** | **21 mm - .826”** |
| **Body off:** | **Ø 27 mm - 1.063” dia.** |
| **Overall length:** | **maxi: 136 mm - 5.354”** |
| | **mini: 116 mm - 4.567”** |
| **Weight:** | **300 g.** |

**RB 356 HPI 38**

| | |
|---|---|
| **Tool attachment:** | **1/4” - 28 F** |
| **Stroke:** | **38 mm - 1.500”** |
| **Body off:** | **Ø 27 mm - 1.063” dia.** |
| **Overall length:** | **maxi: 183 mm - 7.204”** |
| | **mini: 168 mm - 6.614”** |
| **Weight:** | **375 g.** |

**Advantages:**

- **Mounted on three needle bearings, this high precision drill-cage ensures perfect concentricity.**
- **Removable adaptor with two possibilities of use:**
  **A. Chuck-clamping of the straight shank with three wrench flats,**
  **B. Direct fitting on the spindle without using the drill chuck.**
  **This gives perfect concentricity and noticeably reduces the length and weight of the drill and tool assembly.**
  **Results are higher performance, improved machining and much less fatigue for the operator.**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on three needle bearings and a ball thrust bearing. Body of specially treated chrome steel.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment: (1 scale division = .001”).**
- **Safety locking ensured by a locknut equipped with a seal. This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

*For Use With Cutters of 1/4” - 28 Ground Thread*

On request all our cutter attachments can be 1/4” - 28 thread.

# *Microstop Drill-Cage for Drilling, Reaming and Countersinking*

RB 356 HPI 21 and RB 356 HPI 38 Inches

**Basic Drill-Cage**

**RB 356HPI 38**

**RB 356HPI 21**

***Drill Bush Mounting Base 90.815.120***

***Mounting Base Flat Bearing 90.815.125***

***Threaded Mounting Base 90.815.135***

***Mounting Base Flat Bearing 90.815.070***

***Tripod Fitted with Three Nylon Studs 90.815.165***

***Nylon Nose Piece Flat Bearing 90.825.175***

**Available on separate order:**

***Drill Bush***

***Spanner for Fitting of Drill Bushes 90.469.020***

**How to order a drill bush:**

**example: drill bush of 3,17 mm dia.**

**A. Basic Code: 10.110**

**+**

**B. Bush Dia in 100th of mm: 317**

**=**

**10.110.317**
**Code to indicate**

**RB 356 HPI 21**

| Basic Drill-Cage + Adaptor | Drill Bush Mounting Base 90.815.120 | Mounting Base Flat Bearing 90.815.125 | Tripod + 3 Nylon Studs 90.815.165 | Threaded Mounting Base 90.815.135 | Nylon Nose Piece 90.825.175 | Mounting Base Flat Bearing 90.815.070 | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|
| ● | | | | | | | 10.040.050 |
| ● | ● | | | | | | 10.040.150 |
| ● | | ● | | | | | 10.040.250 |
| ● | | ● | ● | | | | 10.040.260 |
| ● | | | | ● | ● | | 10.040.455 |
| ● | | | ● | | | | 10.040.555 |
| ● | | | | | | ● | 10.040.650 |
| | | | | | | | |
| | | | | | | | |

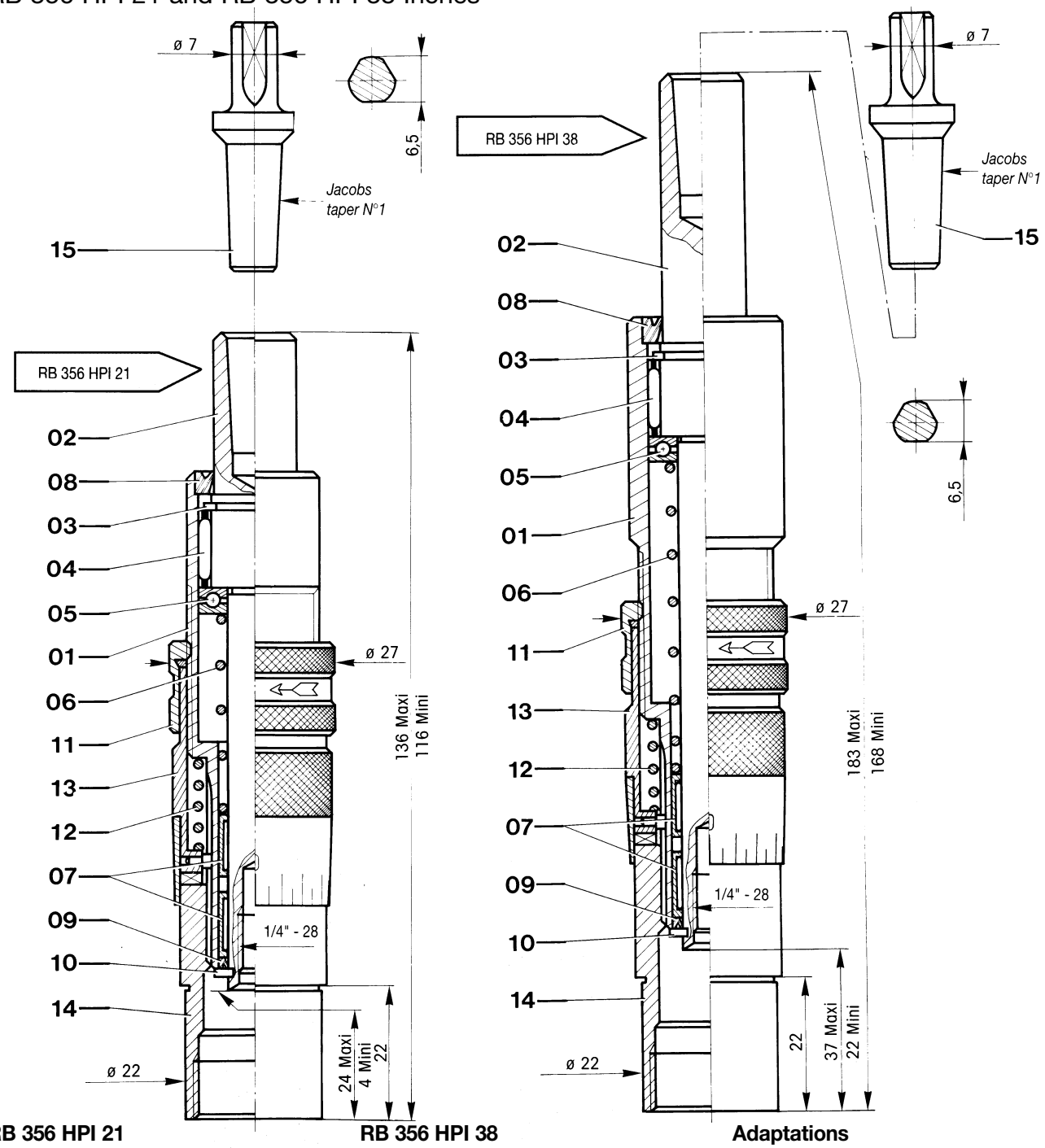
**RB 356 HPI 38**

| Basic Drill-Cage + Adaptor | Drill Bush Mounting Base 90.815.120 | Mounting Base Flat Bearing 90.815.125 | Tripod + 3 Nylon Studs 90.815.165 | Threaded Mounting Base 90.815.135 | Nylon Nose Piece 90.825.175 | Mounting Base Flat Bearing 90.815.070 | Microstop Drill-Cage Assembly Codification |
|---|---|---|---|---|---|---|---|
| ● | | | | | | | 10.045.050 |
| ● | ● | | | | | | 10.045.150 |
| ● | | ● | | | | | 10.045.250 |
| ● | | ● | ● | | | | 10.045.260 |
| ● | | | | ● | ● | | 10.045.455 |
| ● | | | ● | | | | 10.045.555 |
| ● | | | | | | ● | 10.045.650 |
| | | | | | | | |
| | | | | | | | |

For spare parts, please indicate codification number.

# *Microstop Drill-Cage for Drilling, Reaming and Countersinking*

RB 356 HPI 21 and RB 356 HPI 38 Inches




**RB 356 HPI 21**

| Code Reference | REP Index | NB QTY | Description |
|---|---|---|---|
| 90.505.050 | 01 | 1 | BODY |
| 90.025.066 | 02 | 1 | SPINDLE |
| 93.605.050 | 03 | 1 | CIRCLIPS |
| 90.405.170 | 04 | 1 | NEEDLE CAGE |
| 90.280.035 | 05 | 1 | BALL THRUST BEARING |
| 93.430.070 | 06 | 1 | SPRING |
| 90.615.050 | 07 | 2 | NEEDLE BUSHES |
| 90.230.085 | 08 | 1 | SEAL RING |
| 90.230.045 | 09 | 1 | SEAL RING |
| 90.456.030 | 10 | 1 | CIRCLIPS |
| 90.495.035 | 11 | 1 | LOCKNUT |
| 93.430.035 | 12 | 1 | SPRING |
| 94.215.035 | 13 | 1 | VERNIER ASSEMBLY |
| 90.815.115 | 14 | 1 | MOUNTING BASE |
| 90.005.010 | 15 | 1 | ADAPTOR |

**RB 356 HPI 38**

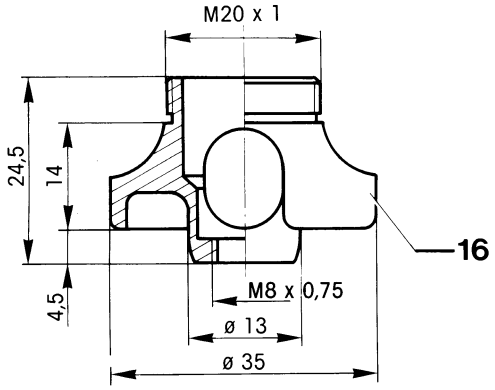
| Code Reference | REP Index | NB QTY | Description |
|---|---|---|---|
| 90.505.045 | 01 | 1 | BODY |
| 90.025.070 | 02 | 1 | SPINDLE |
| 93.605.050 | 03 | 1 | CIRCLIPS |
| 90.405.170 | 04 | 1 | NEEDLE CAGE |
| 90.280.035 | 05 | 1 | BALL THRUST BEARING |
| 93.430.065 | 06 | 1 | SPRING |
| 90.615.050 | 07 | 2 | NEEDLE BUSHES |
| 90.230.085 | 08 | 1 | SEAL RING |
| 90.230.045 | 09 | 1 | SEAL RING |
| 90.456.030 | 10 | 1 | CIRCLIPS |
| 90.495.035 | 11 | 1 | LOCKNUT |
| 93.430.035 | 12 | 1 | SPRING |
| 94.215.035 | 13 | 1 | VERNIER ASSEMBLY |
| 90.815.065 | 14 | 1 | MOUNTING BASE |
| 90.005.010 | 15 | 1 | ADAPTOR |

**Adaptations**

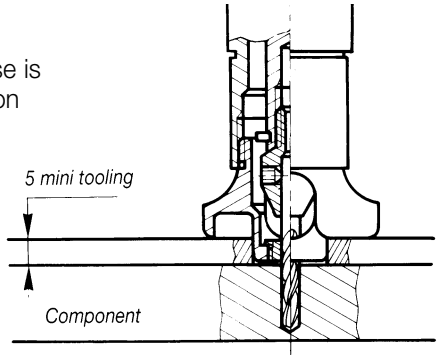
| Code Reference | REP Index | NB QTY | Description |
|---|---|---|---|
| 90.815.120 | 16 | 1 | MOUNTING BASE |
| 90.815.125 | 17 | 1 | MOUNTING BASE |
| 90.815.160 | 18 | 1 | MOUNTING BASE |
| 90.825.190 | 19 | 3 | NYLON STUD |
| 94.235.324 | 20 | 3 | SCREW |
| 94.232.085 | 21 | 1 | SCREW |
| 90.815.135 | 22 | 1 | MOUNTING BASE |
| 90.825.175 | 23 | 1 | NYLON NOSE PIECE |
| 90.815.070 | 24 | 1 | MOUNTING BASE |

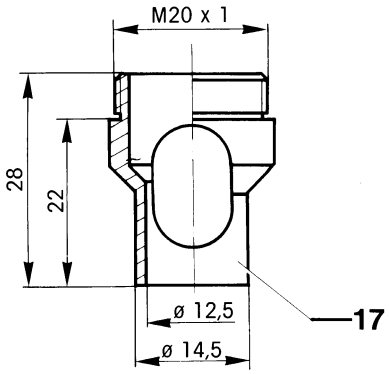
# *Microstop Drill-Cage for Drilling, Reaming and Countersinking*

RB 356 HPI 21 and RB 356 HPI 38 Inches

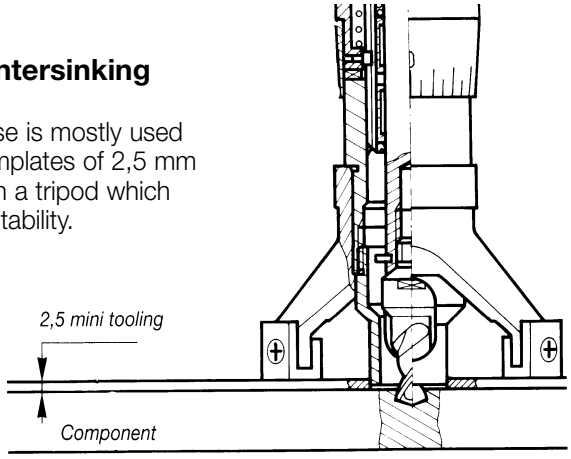


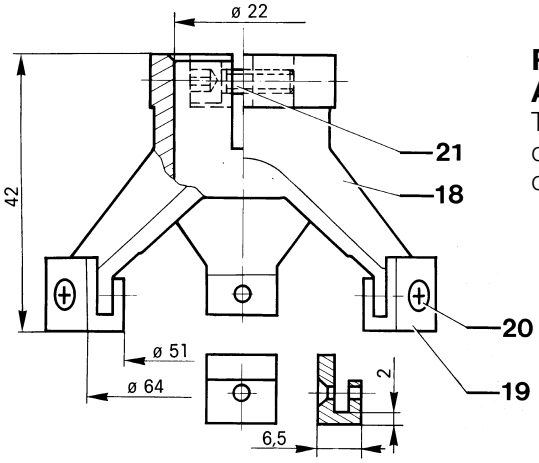

**Drilling Application**
This drill bush mounting base is used with bushes codification number 10.110 + Ø.



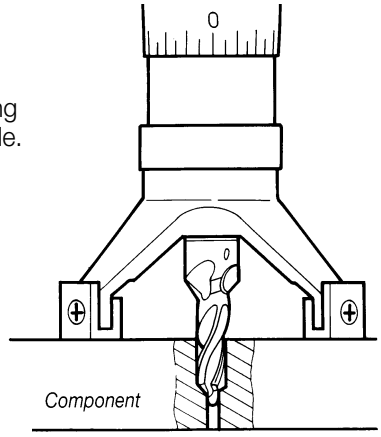



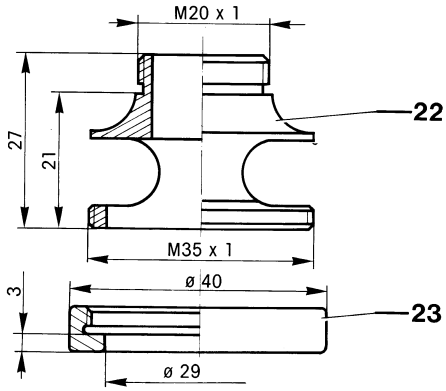

**Drilling + Countersinking Application**
This mounting base is mostly used with aluminum templates of 2,5 mm thickness and with a tripod which ensures a better stability.

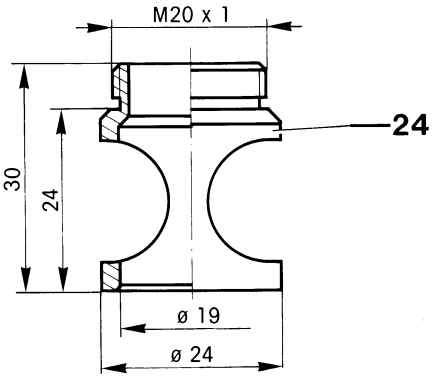



**Reaming + Countersinking Application**
This tripod is used for reaming + countersinking application. Positioning of the cutter with a pilot in the prehole.



# Recoules™

## RB 356 HP 58
**M10 x 1 Metric**

**Special for Drill Countersinking Reamers and Taper-Lok Cutters**

**Bulk:**

**Tool attachment: M10 x 1**
**Stroke: 58 mm - 2.283”**
**Body off: Ø 38 mm - 1.5” dia**
**Overall length:**
**maxi: 292 mm - 11.5”**
**mini: 264 mm - 10.4”**
**Weight: 970 g.**

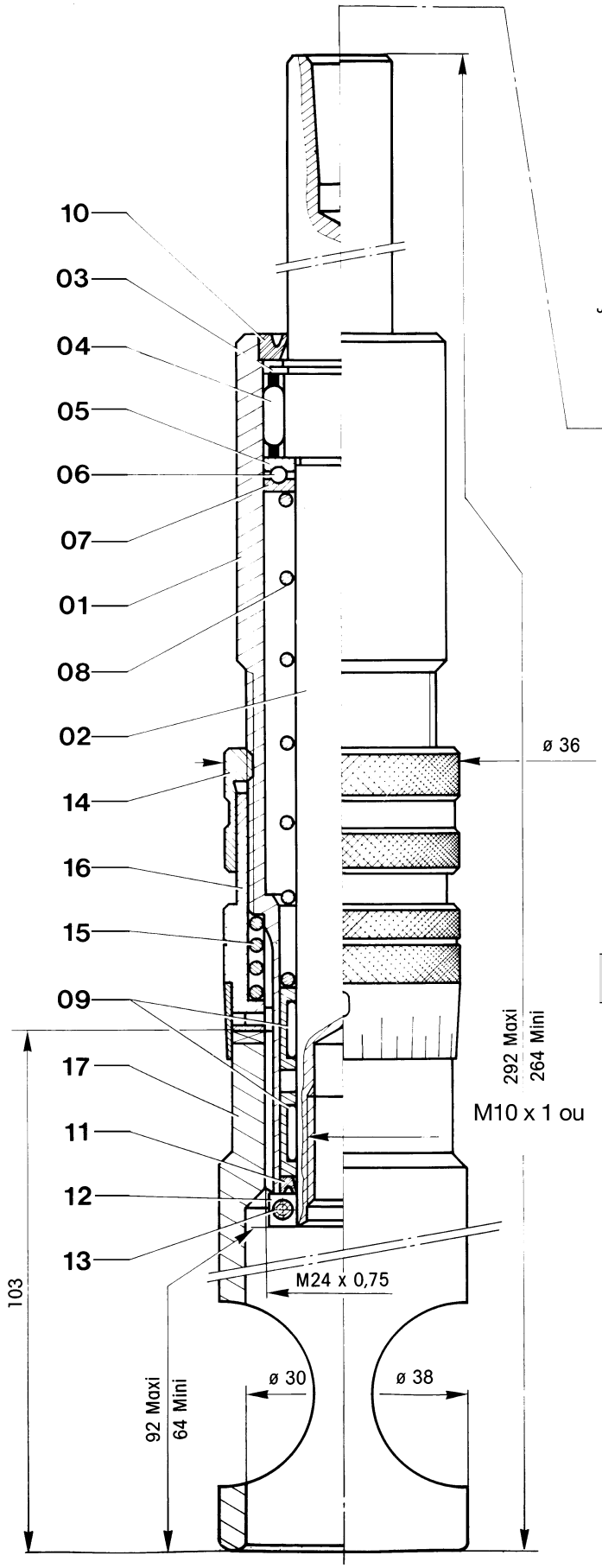
**Code number: 10.050.000**

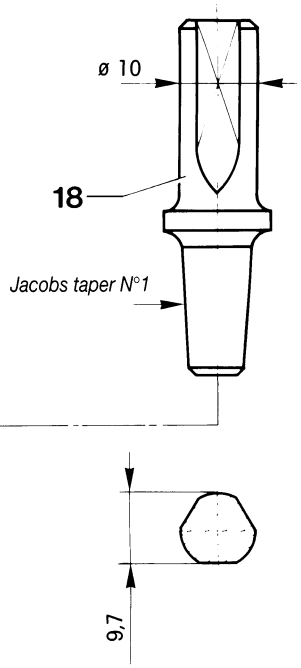
**Advantages:**

- **Mounted on three needle bearings, this high precision drill-cage ensures perfect concentricity.**
- **It has been specially designed for drilling, reaming and countersinking operations.**
- **Removable adaptor with two possibilities of use:**
  **A. Chuck clamping of the straight shank with 3 wrench flats,**
  **B. Direct fitting on the spindle without using the drill chuck.**
  **This gives perfect concentricity and noticeably reduces the length and weight of the drill-and-tool assembly.**
  **Results are higher performance, improved machining and much less fatigue for the operator.**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on three needle bearings and a ball thrust bearing.**
- **Body of specially treated chrome steel fully ground throughout.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment: (1 scale division = .001”).**
- **Safety locking ensured by a locknut equipped with a seal.**
  **This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

# *Microstop Drill-Cage for Drilling, Reaming and Countersinking*

RB 356 HP 58 Metric




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.040 | 01 | 1 | BODY |
| 90.025.055 | 02 | 1 | SPINDLE |
| 93.605.065 | 03 | 1 | CIRCLIPS |
| 90.405.270 | 04 | 1 | NEEDLE CAGE |
| 90.280.025 | 05 | 1 | BALL THRUST BEARING |
| 90.245.130 | 06 | 23 | BALL 2,5 MM DIA. |
| 90.280.030 | 07 | 1 | BALL THRUST BEARING |
| 93.430.060 | 08 | 1 | SPRING |
| 90.615.085 | 09 | 2 | NEEDLE BUSHES |
| 90.230.120 | 10 | 1 | SEAL RING |
| 90.230.085 | 11 | 1 | SEAL RING |
| 90.475.005 | 12 | 1 | COLLAR |
| 94.235.001 | 13 | 1 | SCREW |
| 90.495.030 | 14 | 1 | LOCKNUT |
| 93.430.030 | 15 | 1 | SPRING |
| 94.215.030 | 16 | 1 | VERNIER ASSEMBLY |
| 90.815.140 | 17 | 1 | MOUNTING BASE |
| 90.005.005 | 18 | 1 | ADAPTOR |

For spare parts, please indicate codification number.

# Recoules™

## RB 356 HPI 58
**7/16” - 20 F Inches**

**Special for Drill Countersinking Reamers and Taper-Lok Cutters**

**Bulk:**

**Tool attachment: 7/16” - 20 F**
**Stroke: 58 mm - 2.283”**
**Body off: Ø 38 mm - 1.5” dia**
**Overall length:**
**maxi: 292 mm - 11.5”**
**mini: 264 mm - 10.4”**
**Weight: 970 g.**

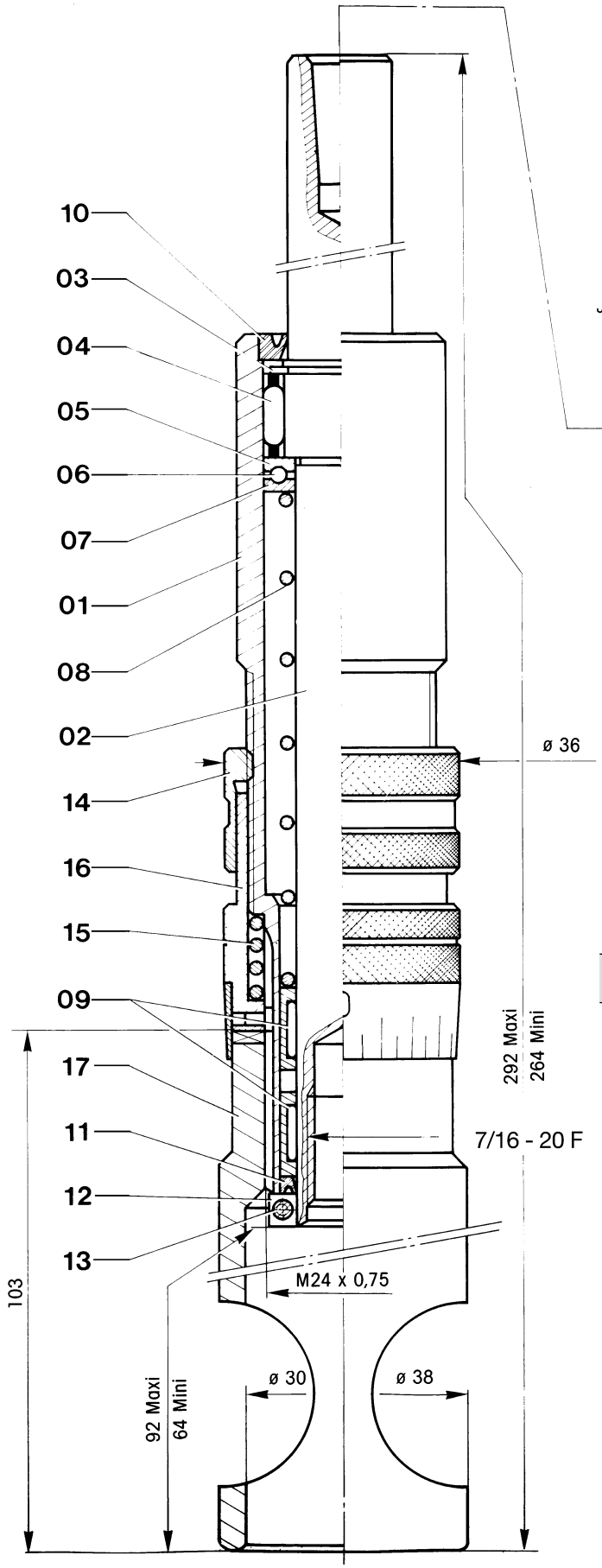
**Code number: 10.050.050**

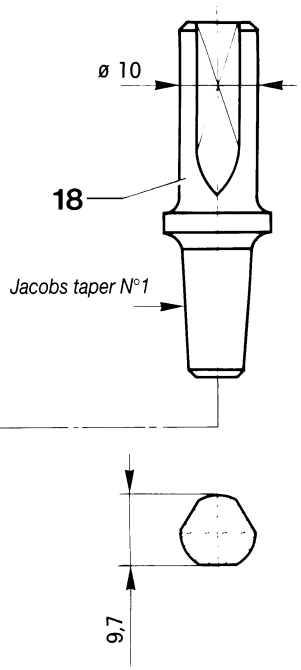
**Advantages:**

- **Mounted on three needle bearings, this high precision drill-cage ensures perfect concentricity.**
- **It has been specially designed for drilling, reaming and countersinking operations.**
- **Removable adaptor with two possibilities of use:**
  **A. Chuck clamping of the straight shank with 3 wrench flats,**
  **B. Direct fitting on the spindle without using the drill chuck.**
  **This gives perfect concentricity and noticeably reduces the length and weight of the drill-and-tool assembly.**
  **Results are higher performance, improved machining and much less fatigue for the operator.**
- **Cemented, hardened and ground chrome-nickel steel spindle mounted on three needle bearings and a ball thrust bearing.**
- **Body of specially treated chrome steel fully ground throughout.**
- **Ground centring-cone of the cutter (120°) for perfect concentricity.**
- **Microstop depth adjustment: (1 scale division = .001”).**
- **Safety locking ensured by a locknut equipped with a seal.**
  **This patented feature allows an easy loosening of the locknut without damage to the drill-cage.**

# Microstop Drill-Cage for Drilling, Reaming and Countersinking

RB 356 HPI 58 Inches




| Code Reference | REP Index | NB Quantity | Description |
|---|---|---|---|
| 90.505.040 | 01 | 1 | BODY |
| 90.025.050 | 02 | 1 | SPINDLE |
| 93.605.065 | 03 | 1 | CIRCLIPS |
| 90.405.270 | 04 | 1 | NEEDLE CAGE |
| 90.280.025 | 05 | 1 | BALL THRUST BEARING |
| 90.245.130 | 06 | 23 | BALL 2,5 MM DIA. |
| 90.280.030 | 07 | 1 | BALL THRUST BEARING |
| 93.430.060 | 08 | 1 | SPRING |
| 90.615.085 | 09 | 2 | NEEDLE BUSHES |
| 90.230.120 | 10 | 1 | SEAL RING |
| 90.230.085 | 11 | 1 | SEAL RING |
| 90.475.005 | 12 | 1 | COLLAR |
| 94.235.001 | 13 | 1 | SCREW |
| 90.495.030 | 14 | 1 | LOCKNUT |
| 93.430.030 | 15 | 1 | SPRING |
| 94.215.030 | 16 | 1 | VERNIER ASSEMBLY |
| 90.815.140 | 17 | 1 | MOUNTING BASE |
| 90.005.005 | 18 | 1 | ADAPTOR |

For spare parts, please indicate codification number.

## Notes

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Fax: 803-808-6735
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Téléphone: (33) 01 64 43 22 00
Téléfax: (33) 01 64 40 17 17

JUNE 2002

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