

# JOLLY

## JOLLY B MINI-TOOL JOLLY Z MINI-MILL

MULTIFUNZIONALE  
FACILE IMPIEGO  
ALTA EFFICIENZA  
BASSO COSTO



EUROPEAN INDUSTRIAL COMPONENTS

jolly-001



# JOLLY B MINI-TOOL (da Pag.3)

UTENSILI BILANCIATI A SINGOLO TAGLIANTE PER CENTRARE, SVASARE, TORNIRE, SFACCIARE, INCIDERE, SMUSSARE E RAGGIARE SU CENTRI DI LAVORO, TORNII A CN E PANTOGRAFI.

**JOLLY B:** è un utensile **BILANCIATO** innovativo e multifunzionale per centri di lavoro, torni e pantografi a CN. Può montare sullo stesso gambo diverse geometrie di inserti, per lavorazioni singole, per **CENTRARE, SVASARE, TORNIRE, SFACCIARE, INCIDERE, SMUSSARE** e **RAGGIARE**. Con il JOLLY si possono eseguire infinite lavorazioni combinate con un solo piazzamento sia sui mandrini in rotazione sia sulle stazioni statiche dei torni.

Ampia scelta di **STELI** in funzione del tipo di lavorazione ed attacco. Steli in acciaio speciale al cromo, molibdeno e vanadio (**THG 2000**) ad alta resistenza meccanica, eseguiti in **h6**, adatti per **CALETTAMENTO A CALDO**.

Ampia scelta di **INSERTI** in funzione del tipo di lavorazione e del materiale da lavorare. Inserti con qualità in **GRANA ULTRAFINE K20** affilati con precisione in classe **E**. Rivestimenti ad alto rendimento: in **DEVIL** (per acciai legati e ghisa meehanite); in **TIN** (per acciai e ghise); in **ZIRCONIO** (per alluminio, leghe non ferrose e acciaio inox). A richiesta si realizzano inserti per profili speciali e rivestimenti dedicati a materiali difficili.



# JOLLY Z MINI-MILL (da Pag.11)

FRESE A SINGOLO O A QUATTRO TAGLIANTI PER LAVORAZIONI DI FINITURA PER FRESARE, SMUSSARE E RAGGIARE ANCHE SOTTOSQUADRA.

**JOLLY Z:** è una serie di **MINI FRESE** dal design compatto, a **1 o a 4 TAGLIANTI** su diametro di taglio minimo!!!

Ideali per lavorazioni di **FINITURA** con **Ra** inferiore a **0,4µm**, **FRESATURA, SMUSSATURA** e **RAGGIATURA** anche sottosquadra.

Altissime prestazioni tecnologiche: velocità di avanzamento fino al **400%** in più grazie alla rigidità del corpo fresa ed agli **INSERTI** con qualità in **GRANA ULTRAFINE K20** affilati con precisione in classe **E**.

Gli **STELI** sono in acciaio speciale al cromo, molibdeno e vanadio (**THG 2000**) ad alta resistenza meccanica, eseguiti in **h6**, adatti per **CALETTAMENTO A CALDO**.

Ampia scelta di **INSERTI** in funzione del tipo di lavorazione e del materiale da lavorare. Tre differenti rivestimenti: in **DEVIL** (per acciai legati e ghisa meehanite); in **TIN** (per acciai e ghise); in **ZIRCONIO** (per alluminio, leghe non ferrose e acciaio inox). A richiesta si realizzano inserti per profili speciali e rivestimenti dedicati a materiali difficili.



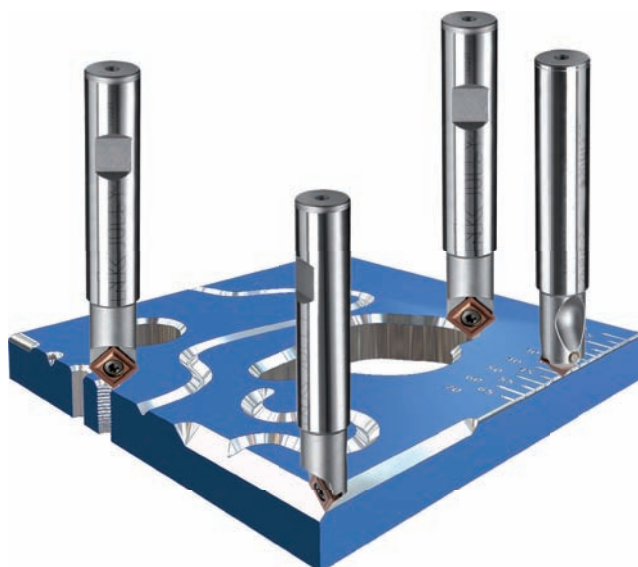
## JOLLY B MINI-TOOL

**JOLLY B:** è un utensile **BILANCIATO** innovativo e multifunzionale per centri di lavoro, torni e pantografi a CN. Può montare sullo stesso gambo diverse geometrie di inserti, per lavorazioni singole, per **CENTRARE, SVASARE, TORNIRE, SFACCIARE, INCIDERE, SMUSSARE** e **RAGGIARE**. Con il JOLLY si possono eseguire infinite lavorazioni combinate con un solo piazzamento sia sui mandrini in rotazione sia sulle stazioni statiche dei torni.

Ampia scelta di **STELI** in funzione del tipo di lavorazione ed attacco. Steli in acciaio speciale al cromo, molibdeno e vanadio (**THG 2000**) ad alta resistenza meccanica, eseguiti in **h6**, adatti per **CALETTAMENTO A CALDO**.

Ampia scelta di **INSERTI** in funzione del tipo di lavorazione e del materiale da lavorare. Inserti con qualità in **GRANA ULTRAFINE K20** affilati con precisione in classe **E**. Rivestimenti ad alto rendimento: in **DEVIL** (per acciai legati e ghisa meehanite); in **TIN** (per acciai e ghise); in **ZIRCONIO** (per alluminio, leghe non ferrose e acciaio inox).

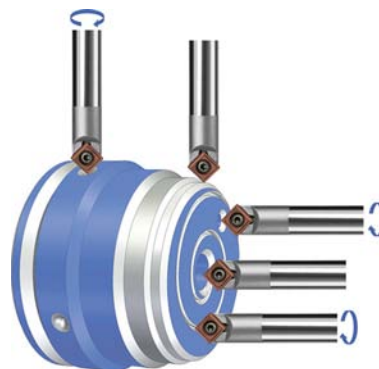
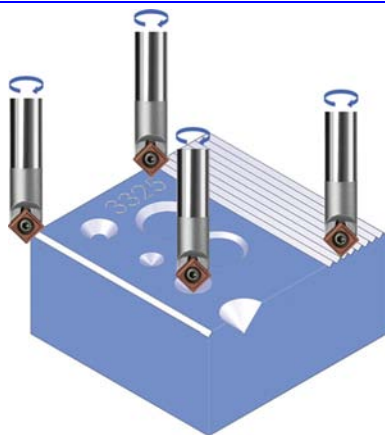
A richiesta si realizzano inserti per profili speciali e rivestimenti dedicati a materiali difficili.



## JOLLY B MINI-TOOL

## SCELTA DELL'INSERTO E SUE APPLICAZIONI

| MATERIALE DA LAVORARE                                                               |                                                                                        | RIVESTIMENTO                   | TIPO DI LAVORAZIONE |           |         |             |           |           |            |                         | ANGOLO     |                         |     |     | TIPO DI STELO |                                                                                       | PAGINA                                                                                |          |   |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------|---------------------|-----------|---------|-------------|-----------|-----------|------------|-------------------------|------------|-------------------------|-----|-----|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|---|
| ACCIAI LEGATI, GHISA MEEHAN.                                                        |                                                                                        | DEVIL (D1)<br>(HV 3800 ±200)   | CENTRATURA          | SVASATURA | TORNIRE | SFACCIATURA | INCISIONE | FRESATURA | SMUSSATURA | SMUSSATURA SOTTOSQUADRA | RAGGIATURA | RAGGIATURA SOTTOSQUADRA | 60° | 90° | 120°          | 142°                                                                                  |                                                                                       |          |   |
| ACCIAI, GHISE                                                                       |                                                                                        | TIN<br>(HV 2500 ±400)          |                     |           |         |             |           |           |            |                         |            |                         |     |     |               |                                                                                       |                                                                                       |          |   |
| AL, LEGHE-AL, ACCIAIO INOX                                                          |                                                                                        | ZRN<br>(HV 2500 ±300)          |                     |           |         |             |           |           |            |                         |            |                         |     |     |               |                                                                                       |                                                                                       |          |   |
| MODELLO INSERTO                                                                     |                                                                                        | D1 (DEVIL)<br>... = TIN<br>ZRN |                     |           |         |             |           |           |            |                         |            |                         |     |     |               |                                                                                       |                                                                                       |          |   |
|  | SD050203CT...                                                                          |                                | •                   | •         | •       | •           | •         | •         | •          |                         |            |                         |     | •   |               |                                                                                       |  | SP0606-S | 4 |
|  | SD08020..CT...                                                                         |                                | •                   | •         | •       | •           | •         | •         | •          |                         |            |                         |     | •   |               |                                                                                       |  | SP1010-S | 5 |
|  | SD080201W60...                                                                         |                                |                     |           |         |             | •         |           |            |                         |            |                         | •   |     |               |  | SP1010-L                                                                              |          |   |
|  | SD080201W90...                                                                         |                                |                     |           |         |             | •         |           |            |                         |            |                         | •   |     |               |                                                                                       |                                                                                       |          | 6 |
|  | SD11T3CT...                                                                            |                                | •                   | •         | •       | •           | •         | •         | •          |                         |            |                         | •   |     |               |  | SP1614-S                                                                              |          |   |
|                                                                                     |                                                                                        |                                | •                   | •         |         |             |           |           | •          |                         |            |                         |     |     |               |  | SP1614-L                                                                              | 8        |   |
|                                                                                     |                                                                                        |                                | •                   | •         |         |             |           |           | •          |                         |            |                         | •   |     |               |  | SP2017-120D-S                                                                         |          |   |
|                                                                                     |                                                                                        |                                |                     |           |         |             |           |           |            |                         |            |                         |     |     | •             |  | SP2018-142D-S                                                                         | 6        |   |
|  | SD11T3P60...                                                                           |                                | •                   |           | •       |             | •         |           | •          |                         |            |                         | •   |     |               |  | SP1614-S                                                                              |          |   |
|  | SD11T3D20...<br>SD11T3D25...<br>SD11T3D315...                                          |                                | •                   |           | •       |             | •         |           | •          |                         |            |                         | •   |     |               |  | SP1614-L                                                                              | 9        |   |
|  | SD11T30...                                                                             |                                |                     | •         | •       | •           |           |           | •          | •                       |            |                         |     |     |               |  | SP2017-18-S                                                                           |          |   |
|                                                                                     |                                                                                        |                                |                     | •         | •       | •           |           |           | •          | •                       |            |                         |     |     |               |  | SP2020-28-S                                                                           | 10       |   |
|  | SD11T308R10...<br>SD11T308R15...<br>SD11T308R20...<br>SD11T308R25...<br>SD11T308R30... |                                |                     |           | •       |             |           |           | •          |                         | •          |                         |     |     |               |  | SP1625R-S                                                                             |          |   |

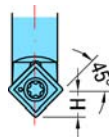


| MOD.     | ØD | L  |           |         |         |                     |
|----------|----|----|-----------|---------|---------|---------------------|
| SP0606-S | 6  | 40 | SD05020.. | SC20048 | TORX-T6 | Nr.1<br>Nr.1 , Nr.1 |

**PARTI DI RICAMBIO**  
**SPARE PARTS**

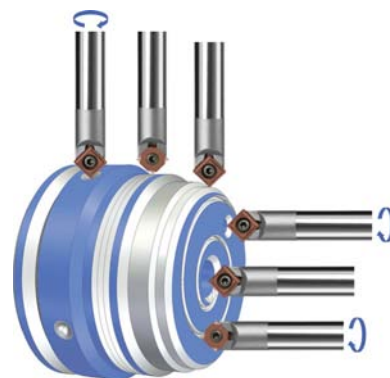
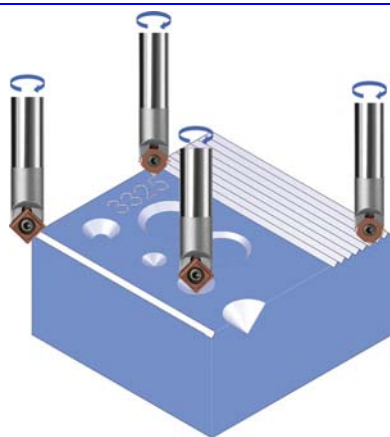
**SC20048**  
**TORX-T6**

Nr.1   
Nr.1



|  | MOD.           | RIVESTIMENTO<br>COATING | Q   | S | Re  | H    | MIN.<br>ORD. |
|--|----------------|-------------------------|-----|---|-----|------|--------------|
|  | SD050203CT-D1  | DEVIL<br>(HV 3800 ±200) | 5,3 | 2 | 0,3 | 3,25 | 10 pcs.      |
|  | SD050203CT-TIN | TIN<br>(HV 2500 ±400)   | 5,3 | 2 | 0,3 | 3,25 | 10 pcs.      |
|  | SD050203CT-ZRN | ZRN<br>(HV 2500 ±300)   | 5,3 | 2 | 0,3 | 3,25 | 10 pcs.      |



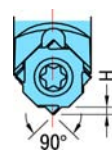
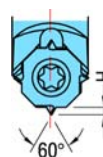
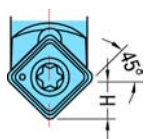


| MOD.            | ØD | L   |           |         |         |                  |
|-----------------|----|-----|-----------|---------|---------|------------------|
| <b>SP1010-S</b> | 10 | 90  | SD08020.. | SC30055 | TORX-T8 | Nr.1  Nr.1  Nr.1 |
| <b>SP1010-L</b> | 10 | 150 | SD08020.. | SC30055 | TORX-T8 | Nr.1  Nr.1  Nr.1 |

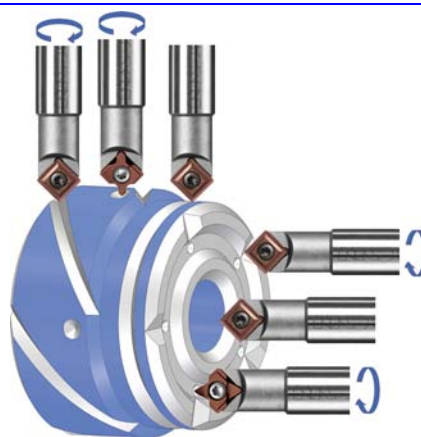
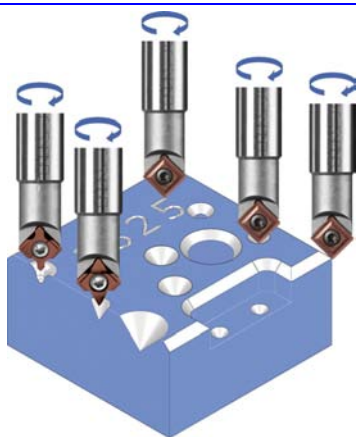
**PARTI DI RICAMBIO**  
**SPARE PARTS**

**SC30055**  
**TORX-T8**

Nr.1   
Nr.1



|  | MOD.                   | RIVESTIMENTO<br>COATING | Q   | S    | Re  | H    | MIN.<br>ORD.   |
|--|------------------------|-------------------------|-----|------|-----|------|----------------|
|  | <b>SD080208CT-D1</b>   | DEVIL<br>(HV 3800 ±200) | 8,3 | 2,38 | 0,8 | 4,9  | <b>10 PCS.</b> |
|  | <b>SD080208CT-TIN</b>  | TIN<br>(HV 2500 ±400)   | 8,3 | 2,38 | 0,8 | 4,9  | <b>10 PCS.</b> |
|  | <b>SD080204CT-ZRN</b>  | ZRN<br>(HV 2500 ±300)   | 8,3 | 2,38 | 0,4 | 5,3  | <b>10 PCS.</b> |
|  | <b>SD080201W60-D1</b>  | DEVIL<br>(HV 3800 ±200) | 8,3 | 2,38 | 0,1 | 0,95 | <b>4 PCS.</b>  |
|  | <b>SD080201W60-TIN</b> | TIN<br>(HV 2500 ±400)   | 8,3 | 2,38 | 0,1 | 0,95 | <b>4 PCS.</b>  |
|  | <b>SD080201W60-ZRN</b> | ZRN<br>(HV 2500 ±300)   | 8,3 | 2,38 | 0,1 | 0,95 | <b>4 PCS.</b>  |
|  | <b>SD080201W90-D1</b>  | DEVIL<br>(HV 3800 ±200) | 8,3 | 2,38 | 0,1 | 0,95 | <b>4 PCS.</b>  |
|  | <b>SD080201W90-TIN</b> | TIN<br>(HV 2500 ±400)   | 8,3 | 2,38 | 0,1 | 0,95 | <b>4 PCS.</b>  |
|  | <b>SD080201W90-ZRN</b> | ZRN<br>(HV 2500 ±300)   | 8,3 | 2,38 | 0,1 | 0,95 | <b>4 PCS.</b>  |

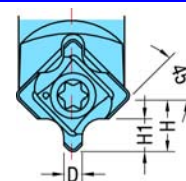
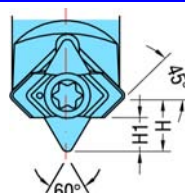
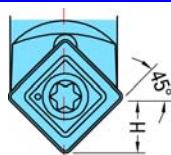


| MOD.            | ØD | ØD1 | L   | L1  |          |         |          |                  |
|-----------------|----|-----|-----|-----|----------|---------|----------|------------------|
| <b>SP1614-S</b> | 16 | 14  | 100 | 70  | SD11T3.. | SC35087 | TORX-T15 | Nr.1  Nr.1  Nr.1 |
| <b>SP1614-L</b> | 16 | 14  | 150 | 120 | SD11T3.. | SC35087 | TORX-T15 | Nr.1  Nr.1  Nr.1 |

**PARTI DI RICAMBIO**  
**SPARE PARTS**

**SC35087**  
**TORX-T15**

Nr.1   
Nr.1



|  | MOD.                    | RIVESTIMENTO<br>COATING | Q  | S    | Re  | D    | H   | H1   | MIN.<br>ORD.   |
|--|-------------------------|-------------------------|----|------|-----|------|-----|------|----------------|
|  | <b>SD11T3CT-D1 R04</b>  | DEVIL                   | 11 | 3,97 | 0,4 | /    | 7,2 | /    | <b>10 PCS.</b> |
|  | <b>SD11T3CT-D1</b>      | (HV 3800 ±200)          |    |      | 0,8 | /    | 6,7 | /    | <b>10 PCS.</b> |
|  | <b>SD11T3CT-TIN R04</b> | TIN                     | 11 | 3,97 | 0,4 | /    | 7,2 | /    | <b>10 PCS.</b> |
|  | <b>SD11T3CT-TIN</b>     | (HV 2500 ±400)          |    |      | 0,8 | /    | 6,7 | /    | <b>10 PCS.</b> |
|  | <b>SD11T3CT-ZRN R02</b> | ZRN                     | 11 | 3,97 | 0,2 | /    | 7,4 | /    | <b>10 PCS.</b> |
|  | <b>SD11T3CT-ZRN R04</b> | (HV 2500 ±300)          |    |      | 0,4 | /    | 7,2 | /    | <b>10 PCS.</b> |
|  | <b>SD11T3P60-D1</b>     | DEVIL                   | 11 | 3,97 | 0,8 | /    | 6,7 | 4,4  | <b>4 PCS.</b>  |
|  | <b>SD11T3P60-TIN</b>    | TIN                     | 11 | 3,97 | 0,8 | /    | 6,7 | 4,4  | <b>4 PCS.</b>  |
|  | <b>SD11T3P60-ZRN</b>    | ZRN                     | 11 | 3,97 | 0,4 | /    | 7,2 | 4,75 | <b>4 PCS.</b>  |
|  | <b>SD11T3D20-D1</b>     | DEVIL                   | 11 | 3,97 | 0,8 | 2,0  | 6,7 | 3,9  | <b>4 PCS.</b>  |
|  | <b>SD11T3D25-D1</b>     | (HV 3800 ±200)          |    |      |     | 2,5  |     | 4,3  | <b>4 PCS.</b>  |
|  | <b>SD11T3D315-D1</b>    |                         |    |      |     | 3,15 |     | 4,8  | <b>4 PCS.</b>  |
|  | <b>SD11T3D20-TIN</b>    | TIN                     | 11 | 3,97 | 0,4 | 2,0  | 7,2 | 3,9  | <b>4 PCS.</b>  |
|  | <b>SD11T3D25-TIN</b>    | (HV 2500 ±400)          |    |      |     | 2,5  |     | 4,3  | <b>4 PCS.</b>  |
|  | <b>SD11T3D315-TIN</b>   |                         |    |      |     | 3,15 |     | 4,8  | <b>4 PCS.</b>  |
|  | <b>SD11T3D20-ZRN</b>    | ZRN                     | 11 | 3,97 | 0,4 | 2,0  | 7,2 | 3,9  | <b>4 PCS.</b>  |
|  | <b>SD11T3D25-ZRN</b>    | (HV 2500 ±300)          |    |      |     | 2,5  |     | 4,3  | <b>4 PCS.</b>  |
|  | <b>SD11T3D315-ZRN</b>   |                         |    |      |     | 3,15 |     | 4,8  | <b>4 PCS.</b>  |

# JOLLY B KIT SP1614-S

Ø16 • L100

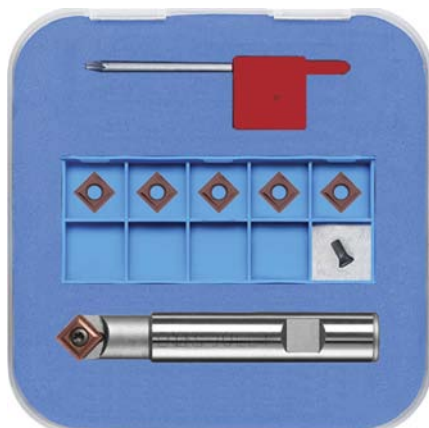
**RIVESTIMENTO INSERTI**  
**INSERTS COATING**  
**DEVIL**

**RIVESTIMENTO INSERTI**  
**INSERTS COATING**  
**TIN**

**RIVESTIMENTO INSERTI**  
**INSERTS COATING**  
**ZRN**

**MOD. KIT**

**KS02 S CT D1**



Nr.1 SP1614-S

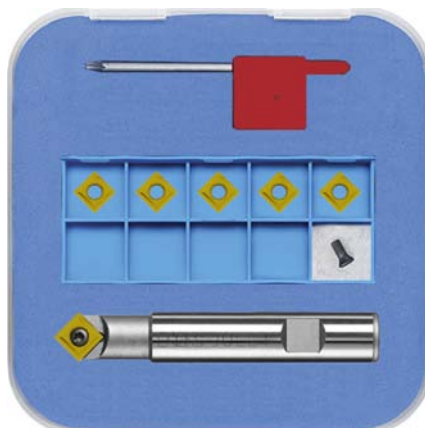
Nr.6 SD11T3CT-D1

Nr.2

Nr.1

**MOD. KIT**

**KS02 S CT TIN**



Nr.1 SP1614-S

Nr.6 SD11T3CT-TIN

Nr.2

Nr.1

**MOD. KIT**

**KS02 S CT ZRN04**



Nr.1 SP1614-S

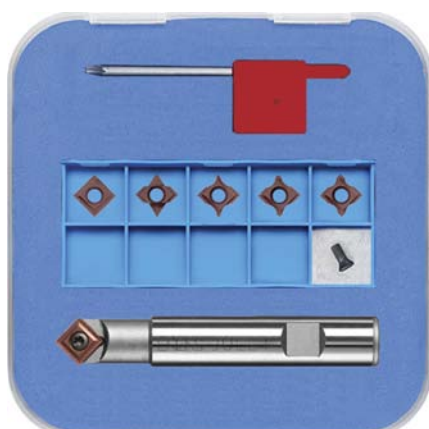
Nr.6 SD11T3CT-ZRN R04

Nr.2

Nr.1

**MOD. KIT**

**KS02 S U1 D1**



Nr.1 SP1614-S

Nr.2 SD11T3CT-D1

Nr.1 SD11T3P60-D1

Nr.1 SD11T3D20-D1

Nr.1 SD11T3D25-D1

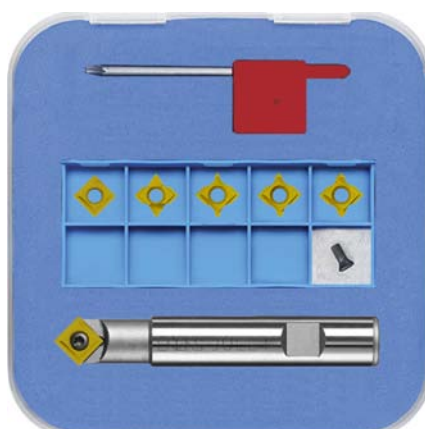
Nr.1 SD11T3D315-D1

Nr.2

Nr.1

**MOD. KIT**

**KS02 S U1 TIN**



Nr.1 SP1614-S

Nr.2 SD11T3CT-TIN

Nr.1 SD11T3P60-TIN

Nr.1 SD11T3D20-TIN

Nr.1 SD11T3D25-TIN

Nr.1 SD11T3D315-TIN

Nr.2

Nr.1

**MOD. KIT**

**KS02 S U1 ZRN04**



Nr.1 SP1614-S

Nr.2 SD11T3CT-ZRN R04

Nr.1 SD11T3P60-ZRN

Nr.1 SD11T3D20-ZRN

Nr.1 SD11T3D25-ZRN

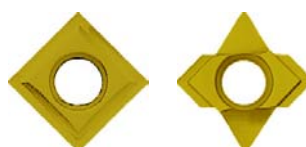
Nr.1 SD11T3D315-ZRN

Nr.2

Nr.1



SD11T3CT-D1 .. SD11T3P60-D1



SD11T3CT-TIN .. SD11T3P60-TIN



SD11T3CT-ZRN .. SD11T3P60-ZRN



SD11T3D20-D1 SD11T3D25-D1 SD11T3D315-D1



SD11T3D20-TIN SD11T3D25-TIN SD11T3D315-TIN



SD11T3D20-ZRN SD11T3D25-ZRN SD11T3D315-ZRN

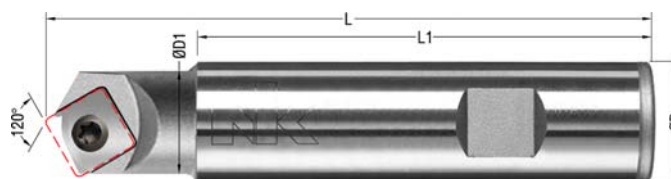
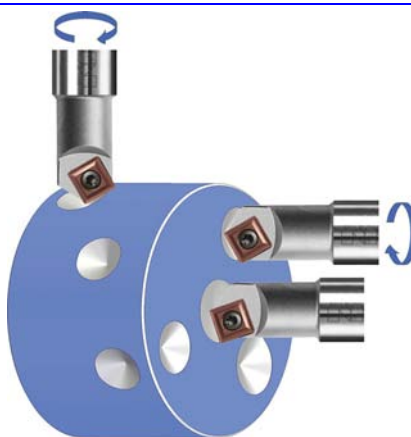
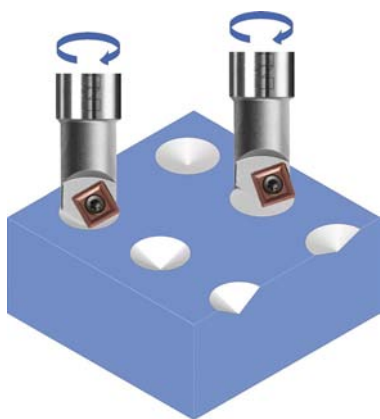
2012/04 R01-0

# JOLLY B

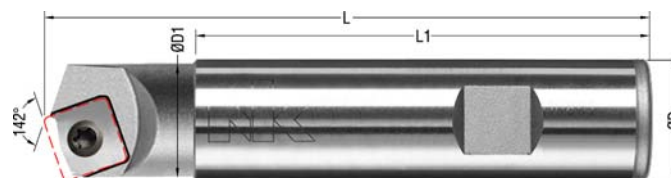
SP2017-120D-S  
Ø20 • L100 • 120°

SP2018-142D-S  
Ø20 • L100 • 142°

MAX  
10.000min<sup>-1</sup>



| MOD.          | ØD | ØD1 | L   | L1 |            |         |          |                      |
|---------------|----|-----|-----|----|------------|---------|----------|----------------------|
| SP2017-120D-S | 20 | 17  | 100 | 75 | SD11T3CT.. | SC35087 | TORX-T15 | Nr.1<br>Nr.1  , Nr.1 |

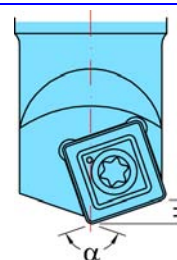
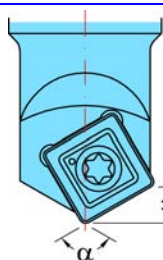


| MOD.          | ØD | ØD1  | L   | L1 |            |         |          |                      |
|---------------|----|------|-----|----|------------|---------|----------|----------------------|
| SP2018-142D-S | 20 | 18,7 | 100 | 75 | SD11T3CT.. | SC35087 | TORX-T15 | Nr.1<br>Nr.1  , Nr.1 |

**PARTI DI RICAMBIO**  
**SPARE PARTS**

SC35087  
TORX-T15

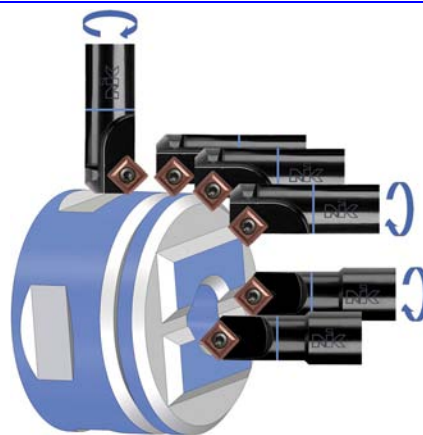
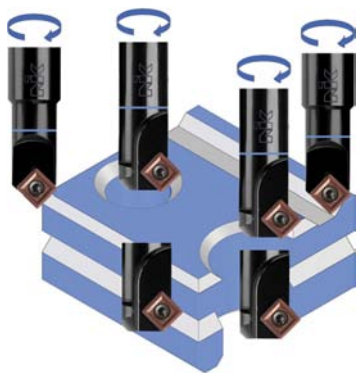
Nr.1   
Nr.1



|  | MOD.             | RIVESTIMENTO<br>COATING | Q  | S    | Re  | STELO<br>SHANK | α    | H    | MIN.<br>ORD. |
|--|------------------|-------------------------|----|------|-----|----------------|------|------|--------------|
|  | SD11T3CT-D1 R04  | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,4 | SP2017-120D-S  | 120° | 5,1  | 10 pcs.      |
|  |                  |                         |    |      |     | SP2018-142D-S  | 142° | 3,3  |              |
|  | SD11T3CT-D1      |                         |    |      | 0,8 | SP2017-120D-S  | 120° | 4,75 | 10 pcs.      |
|  |                  |                         |    |      |     | SP2018-142D-S  | 142° | 3,05 |              |
|  | SD11T3CT-TIN R04 | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,4 | SP2017-120D-S  | 120° | 5,1  | 10 pcs.      |
|  |                  |                         |    |      |     | SP2018-142D-S  | 142° | 3,3  |              |
|  | SD11T3CT-TIN     |                         |    |      | 0,8 | SP2017-120D-S  | 120° | 4,75 | 10 pcs.      |
|  |                  |                         |    |      |     | SP2018-142D-S  | 142° | 3,05 |              |
|  | SD11T3CT-ZRN R02 | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,2 | SP2017-120D-S  | 120° | 5,3  | 10 pcs.      |
|  |                  |                         |    |      |     | SP2018-142D-S  | 142° | 3,4  |              |
|  | SD11T3CT-ZRN R04 |                         |    |      | 0,4 | SP2017-120D-S  | 120° | 5,1  | 10 pcs.      |
|  |                  |                         |    |      |     | SP2018-142D-S  | 142° | 3,3  |              |

2012/04 R01-0





| MOD.        | ØD | ØD1 | L   | L1 |           |         |          |            |
|-------------|----|-----|-----|----|-----------|---------|----------|------------|
| SP2017-18-S | 20 | 17  | 120 | 80 | SD11T30.. | SC35087 | TORX-T15 | Nr.1  Nr.1 |

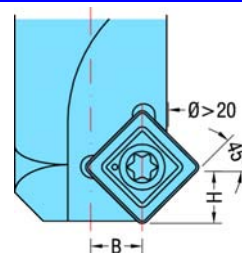
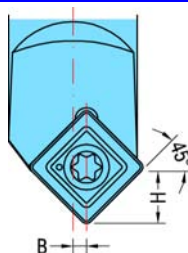


| MOD.        | ØD | ØD1 | L   | L1 |           |         |          |            |
|-------------|----|-----|-----|----|-----------|---------|----------|------------|
| SP2020-28-S | 20 | /   | 120 | /  | SD11T30.. | SC35087 | TORX-T15 | Nr.1  Nr.1 |

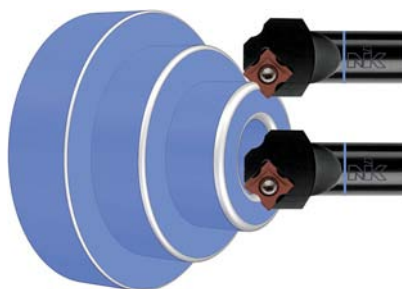
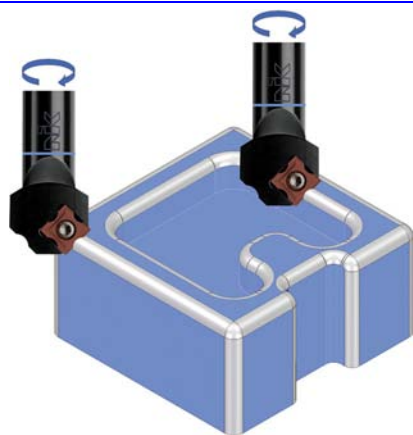
**PARTI DI RICAMBIO**  
**SPARE PARTS**

**SC35087**  
**TORX-T15**

Nr.1   
Nr.1



|  | MOD.         | RIVESTIMENTO<br>COATING | Q  | S    | Re  | STELO<br>SHANK | B   | H    | MIN.<br>ORD. |
|--|--------------|-------------------------|----|------|-----|----------------|-----|------|--------------|
|  | SD11T308-D1  | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,8 | SP2017-18-S    | 1,3 | 6,7  | 10 PCS.      |
|  |              |                         |    |      |     | SP2020-28-S    | 6,5 | 6,85 |              |
|  | SD11T308-TIN | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,8 | SP2017-18-S    | 1,3 | 6,7  | 10 PCS.      |
|  |              |                         |    |      |     | SP2020-28-S    | 6,5 | 6,85 |              |
|  | SD11T303-ZRN | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,3 | SP2017-18-S    | 1,3 | 7,3  | 10 PCS.      |
|  |              |                         |    |      |     | SP2020-28-S    | 6,5 | 7,4  |              |

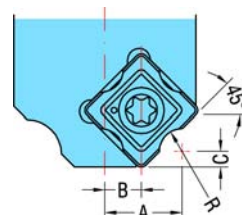
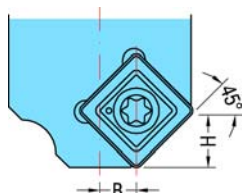


| MOD.      | ØD | ØD1 | L   | L1 |             |         |          |                     |
|-----------|----|-----|-----|----|-------------|---------|----------|---------------------|
| SP1625R-S | 16 | 24  | 100 | 80 | SD11T308R.. | SC35087 | TORX-T15 | Nr.1<br>Nr.1 , Nr.1 |

**PARTI DI RICAMBIO**  
**SPARE PARTS**

**SC35087**  
**TORX-T15**

Nr.1   
Nr.1



|  | MOD.         | RIVESTIMENTO<br>COATING | Q  | S    | Re  | R | A | B   | C | H    | MIN.<br>ORD. |
|--|--------------|-------------------------|----|------|-----|---|---|-----|---|------|--------------|
|  | SD11T308-D1  | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,8 | / | / | 4,8 | / | 6,85 | 10 PCS.      |
|  | SD11T308-TIN | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,8 | / | / | 4,8 | / | 6,85 | 10 PCS.      |
|  | SD11T303-ZRN | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,3 | / | / | 4,8 | / | 7,4  | 10 PCS.      |

|                 |                         |    |      |     |  |     |       |     |      |   |        |
|-----------------|-------------------------|----|------|-----|--|-----|-------|-----|------|---|--------|
| SD11T308R10-D1  |                         |    |      |     |  | 1,0 | 9,25  |     | 3,0  |   | 4 pcs. |
| SD11T308R15-D1  |                         |    |      |     |  | 1,5 | 9,5   |     | 2,83 |   | 4 pcs. |
| SD11T308R20-D1  | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,8 |  | 2,0 | 9,75  | 4,8 | 2,52 | / | 4 pcs. |
| SD11T308R25-D1  |                         |    |      |     |  | 2,5 | 10,0  |     | 2,27 |   | 4 pcs. |
| SD11T308R30-D1  |                         |    |      |     |  | 3,0 | 10,25 |     | 2,1  |   | 4 pcs. |
| SD11T308R10-TIN |                         |    |      |     |  | 1,0 | 9,25  |     | 3,0  |   | 4 pcs. |
| SD11T308R15-TIN |                         |    |      |     |  | 1,5 | 9,5   |     | 2,83 |   | 4 pcs. |
| SD11T308R20-TIN | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,8 |  | 2,0 | 9,75  | 4,8 | 2,52 | / | 4 pcs. |
| SD11T308R25-TIN |                         |    |      |     |  | 2,5 | 10,0  |     | 2,27 |   | 4 pcs. |
| SD11T308R30-TIN |                         |    |      |     |  | 3,0 | 10,25 |     | 2,1  |   | 4 pcs. |
| SD11T308R10-ZRN |                         |    |      |     |  | 1,0 | 9,25  |     | 3,0  |   | 4 pcs. |
| SD11T308R15-ZRN |                         |    |      |     |  | 1,5 | 9,5   |     | 2,83 |   | 4 pcs. |
| SD11T308R20-ZRN | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,8 |  | 2,0 | 9,75  | 4,8 | 2,52 | / | 4 pcs. |
| SD11T308R25-ZRN |                         |    |      |     |  | 2,5 | 10,0  |     | 2,27 |   | 4 pcs. |
| SD11T308R30-ZRN |                         |    |      |     |  | 3,0 | 10,25 |     | 2,1  |   | 4 pcs. |

## JOLLY Z MINI-MILL

**JOLLY Z:** è una serie di **MINI FRESE** dal design compatto, a **1** o a **4** **TAGLIENTI**, su diametro di taglio minimo!!!

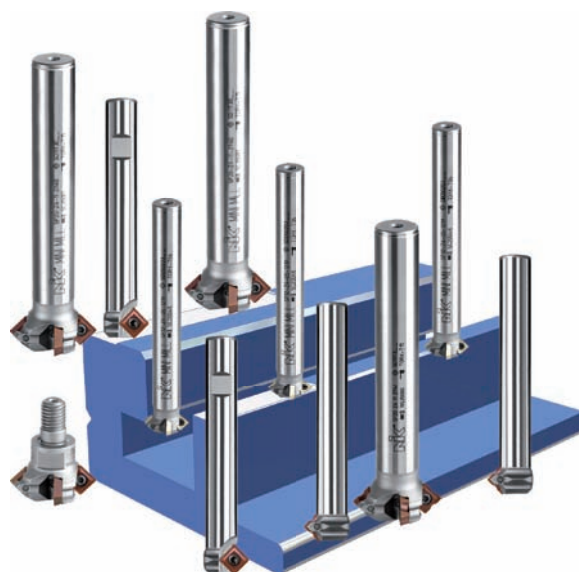
Ideali per lavorazioni di **FINITURA** con **Ra** inferiore a **0,4µm**, **FRESATURA**, **SMUSSATURA** e **RAGGIATURA** anche sottosquadra.

Altissime prestazioni tecnologiche: velocità di avanzamento fino al **400%** in più grazie alla rigidità del corpo fresa ed agli **INSERTI** con qualità in **GRANA ULTRAFINE K20** affilati con precisione in classe **E**.

Gli **STELI** sono in acciaio speciale al cromo, molibdeno e vanadio (**THG 2000**) ad alta resistenza meccanica, eseguiti in **h6**, adatti per **CALETTAMENTO A CALDO**.

Ampia scelta di **INSERTI** in funzione del tipo di lavorazione e del materiale da lavorare. Tre differenti rivestimenti: in **DEVIL** (per acciai legati e ghisa meehanite); in **TIN** (per acciai e ghise); in **ZIRCONIO** (per alluminio, leghe non ferrose e acciaio inox).

A richiesta si realizzano inserti per profili speciali e rivestimenti dedicati a materiali difficili.



## JOLLY Z MINI-MILL

## SCELTA DELL'INSERTO E SUE APPLICAZIONI

| MATERIALE DA LAVORARE                                                               |                                                                                        | RIVESTIMENTO                                                                                                                                                  | TIPO DI LAVORAZIONE |   |  |  |  |   |   |   | TIPO DI STELO |   | PAGINA |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---|--|--|--|---|---|---|---------------|---|--------|
| ACCIAI LEGATI, GHISA MEEHAN.                                                        | DEVIL (D1)<br>(HV 3800 ±200)                                                           | CENTRATURA<br>SVASATURA<br>TORNIRE<br>SFACCIATURA<br>INCISIONE<br>FRESATURA<br>SMUSSATURA<br>SMUSSATURA SOTTOSQUADRA<br>RAGGIATURA<br>RAGGIATURA SOTTOSQUADRA |                     |   |  |  |  |   |   |   |               |   |        |
| ACCIAI, GHISE                                                                       | TIN<br>(HV 2500 ±400)                                                                  |                                                                                                                                                               |                     |   |  |  |  |   |   |   |               |   |        |
| AL, LEGHE-AL, ACCIAIO INOX                                                          | ZRN<br>(HV 2500 ±300)                                                                  |                                                                                                                                                               |                     |   |  |  |  |   |   |   |               |   |        |
| MODELLO INSERTO                                                                     |                                                                                        | D1 (DEVIL)<br>... = TIN<br>ZRN                                                                                                                                |                     |   |  |  |  |   |   |   |               |   |        |
|  | SD050203...                                                                            |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● |               |   |        |
|  | SD050203R05...<br>SD050203R075...<br>SD050203R10...                                    |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● | ●             | ● |        |
|  | SD11T30...                                                                             |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● |               |   |        |
|                                                                                     |                                                                                        |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● |               |   |        |
|                                                                                     |                                                                                        |                                                                                                                                                               | ●                   | ● |  |  |  | ● | ● | ● |               |   |        |
|  | SD11T308R10...<br>SD11T308R15...<br>SD11T308R20...<br>SD11T308R25...<br>SD11T308R30... |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● | ●             | ● |        |
|                                                                                     |                                                                                        |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● | ●             | ● |        |
|                                                                                     |                                                                                        |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● | ●             | ● |        |
|                                                                                     |                                                                                        |                                                                                                                                                               |                     |   |  |  |  | ● | ● | ● | ●             | ● |        |

SP12-Z4-05-1219

SP20-Z4-11-2740

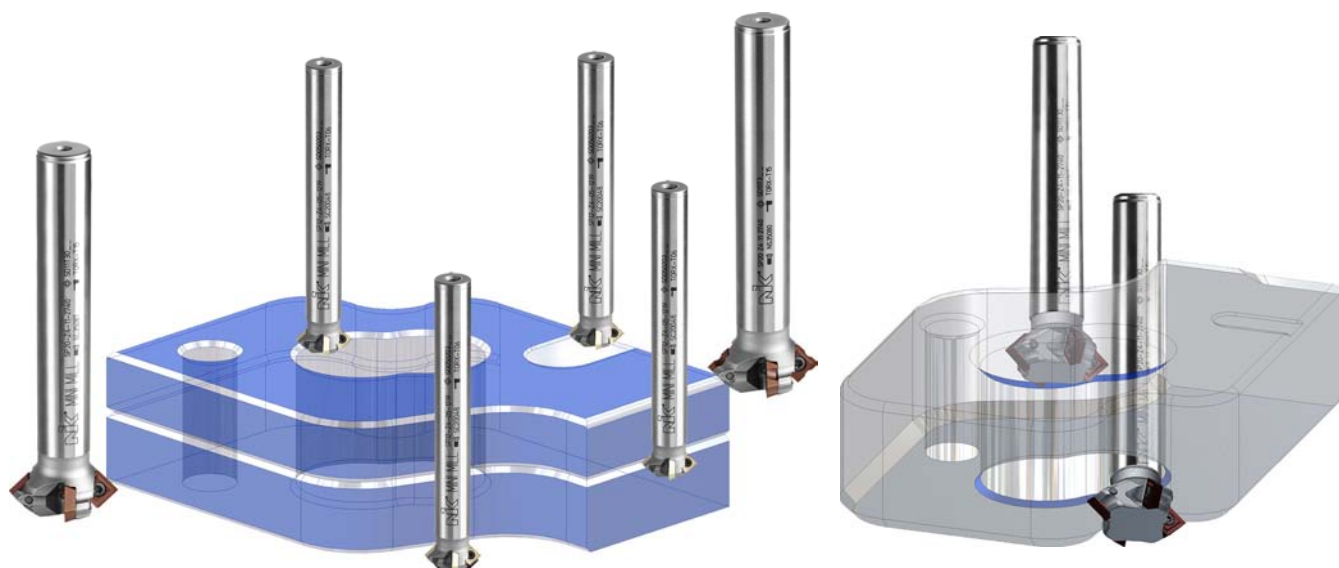
SP20-Z4-11-2740-M12

SP16-Z1-11-1328

SP20-Z4-11-2740

SP20-Z4-11-2740-M12

SP16-Z1-11-1328



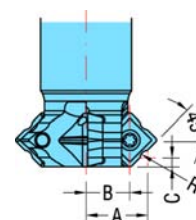
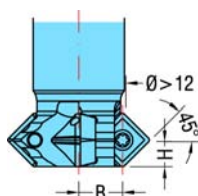
| MOD.            | ØD | L   |           |         |         |                   |
|-----------------|----|-----|-----------|---------|---------|-------------------|
| SP12-Z4-05-1219 | 12 | 100 | SD05020.. | SC20048 | TORX-T6 | Nr.1  Nr.4 , Nr.1 |

**PARTI DI RICAMBIO**  
**SPARE PARTS**

**SC20048**  
**TORX-T6**

Nr.1

Nr.1

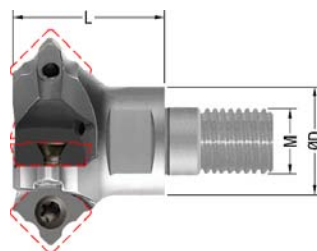


|  | MOD.             | RIVESTIMENTO<br>COATING | Q   | S | Re  | R    | A    | B   | C    | H   | MIN.<br>ORD. |
|--|------------------|-------------------------|-----|---|-----|------|------|-----|------|-----|--------------|
|  | SD050203-D1      | DEVIL<br>(HV 3800 ±200) | 5,3 | 2 | 0,3 | /    | /    | 5,8 | /    | 3,4 | 10 PCS.      |
|  | SD050203-TIN     | TIN<br>(HV 2500 ±400)   | 5,3 | 2 | 0,3 | /    | /    | 5,8 | /    | 3,4 | 10 PCS.      |
|  | SD050203-ZRN     | ZRN<br>(HV 2500 ±300)   | 5,3 | 2 | 0,3 | /    | /    | 5,8 | /    | 3,4 | 10 PCS.      |
|  | SD050203R05-D1   | DEVIL<br>(HV 3800 ±200) | 5,3 | 2 | 0,3 | 0,5  | 7,95 | 5,8 | 1,27 | /   | 4 PCS.       |
|  | SD050203R075-D1  |                         |     |   |     | 0,75 | 8,05 |     |      |     | 4 PCS.       |
|  | SD050203R10-D1   |                         |     |   |     | 1,0  | 8,20 |     |      |     | 4 PCS.       |
|  | SD050203R05-TIN  | TIN<br>(HV 2500 ±400)   | 5,3 | 2 | 0,3 | 0,5  | 7,95 | 5,8 | 1,27 | /   | 4 PCS.       |
|  | SD050203R075-TIN |                         |     |   |     | 0,75 | 8,05 |     |      |     | 4 PCS.       |
|  | SD050203R10-TIN  |                         |     |   |     | 1,0  | 8,20 |     |      |     | 4 PCS.       |
|  | SD050203R05-ZRN  | ZRN<br>(HV 2500 ±300)   | 5,3 | 2 | 0,3 | 0,5  | 7,95 | 5,8 | 1,27 | /   | 4 PCS.       |
|  | SD050203R075-ZRN |                         |     |   |     | 0,75 | 8,05 |     |      |     | 4 PCS.       |
|  | SD050203R10-ZRN  |                         |     |   |     | 1,0  | 8,20 |     |      |     | 4 PCS.       |





| MOD.            | ØD | L   |           |         |          |                   |
|-----------------|----|-----|-----------|---------|----------|-------------------|
| SP20-Z4-11-2740 | 20 | 140 | SD11T30.. | SC35087 | TORX-T15 | Nr.1  Nr.4 , Nr.1 |

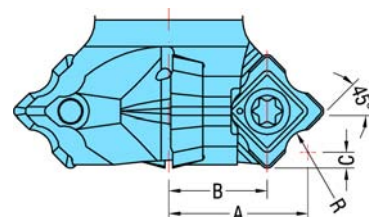
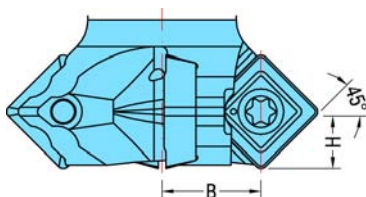


| MOD.                | ØD | L  | M   |           |         |          |
|---------------------|----|----|-----|-----------|---------|----------|
| SP20-Z4-11-2740-M12 | 20 | 28 | M12 | SD11T30.. | SC35087 | TORX-T15 |

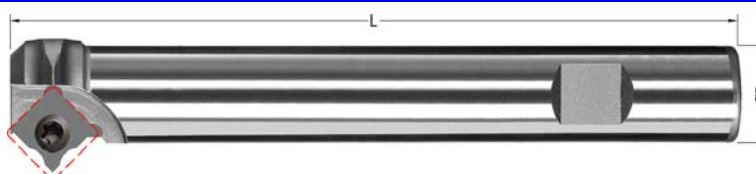
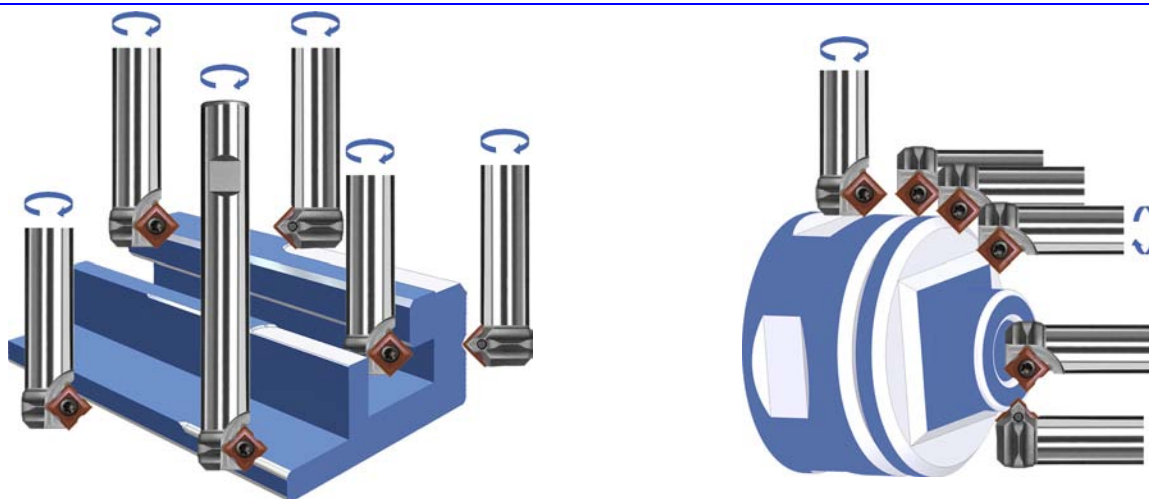
**PARTI DI RICAMBIO**  
**SPARE PARTS**

SC35087  
TORX-T15

Nr.1   
Nr.1



|  | MOD.            | RIVESTIMENTO<br>COATING | Q  | S    | Re  | R   | A     | B     | C    | H    | MIN.<br>ORD. |
|--|-----------------|-------------------------|----|------|-----|-----|-------|-------|------|------|--------------|
|  | SD11T308-D1     | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,8 | /   | /     | 12,95 | /    | 6,85 | 10 PCS.      |
|  | SD11T308-TIN    | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,8 | /   | /     | 12,95 | /    | 6,85 | 10 PCS.      |
|  | SD11T303-ZRN    | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,3 | /   | /     | 12,95 | /    | 7,4  | 10 PCS.      |
|  | SD11T308R10-D1  | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,8 | 1,0 | 17,3  |       | 3,0  |      | 4 PCS.       |
|  | SD11T308R15-D1  |                         |    |      |     | 1,5 | 17,55 |       | 2,83 |      | 4 PCS.       |
|  | SD11T308R20-D1  |                         |    |      |     | 2,0 | 17,8  | 12,95 | 2,52 | /    | 4 PCS.       |
|  | SD11T308R25-D1  |                         |    |      |     | 2,5 | 18,05 |       | 2,27 |      | 4 PCS.       |
|  | SD11T308R30-D1  |                         |    |      |     | 3,0 | 18,3  |       | 2,1  |      | 4 PCS.       |
|  | SD11T308R10-TIN | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,8 | 1,0 | 17,3  |       | 3,0  |      | 4 PCS.       |
|  | SD11T308R15-TIN |                         |    |      |     | 1,5 | 17,55 |       | 2,83 |      | 4 PCS.       |
|  | SD11T308R20-TIN |                         |    |      |     | 2,0 | 17,8  | 12,95 | 2,52 | /    | 4 PCS.       |
|  | SD11T308R25-TIN |                         |    |      |     | 2,5 | 18,05 |       | 2,27 |      | 4 PCS.       |
|  | SD11T308R30-TIN |                         |    |      |     | 3,0 | 18,3  |       | 2,1  |      | 4 PCS.       |
|  | SD11T308R10-ZRN | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,8 | 1,0 | 17,3  |       | 3,0  |      | 4 PCS.       |
|  | SD11T308R15-ZRN |                         |    |      |     | 1,5 | 17,55 |       | 2,83 |      | 4 PCS.       |
|  | SD11T308R20-ZRN |                         |    |      |     | 2,0 | 17,8  | 12,95 | 2,52 | /    | 4 PCS.       |
|  | SD11T308R25-ZRN |                         |    |      |     | 2,5 | 18,05 |       | 2,27 |      | 4 PCS.       |
|  | SD11T308R30-ZRN |                         |    |      |     | 3,0 | 18,3  |       | 2,1  |      | 4 PCS.       |

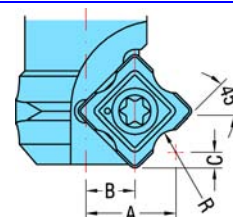
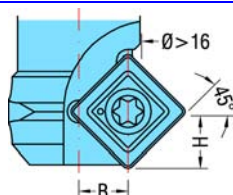


| MOD.            | ØD | L   |           |         |          |                                     |
|-----------------|----|-----|-----------|---------|----------|-------------------------------------|
| SP16-Z1-11-1328 | 16 | 120 | SD11T30.. | SC35087 | TORX-T15 | Nr.1  SP16-Z1-11-1328<br>Nr.1  Nr.1 |

**PARTI DI RICAMBIO**  
**SPARE PARTS**

**SC35087**  
**TORX-T15**

Nr.1   
Nr.1



|  | MOD.            | RIVESTIMENTO<br>COATING | Q  | S    | Re  | R   | A     | B    | C    | H    | MIN.<br>ORD. |
|--|-----------------|-------------------------|----|------|-----|-----|-------|------|------|------|--------------|
|  | SD11T308-D1     | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,8 | /   | /     | 6,35 | /    | 6,85 | 10 pcs.      |
|  | SD11T308-TIN    | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,8 | /   | /     | 6,35 | /    | 6,85 | 10 pcs.      |
|  | SD11T303-ZRN    | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,3 | /   | /     | 6,35 | /    | 7,4  | 10 pcs.      |
|  | SD11T308R10-D1  | DEVIL<br>(HV 3800 ±200) | 11 | 3,97 | 0,8 | 1,0 | 10,75 | 3,0  |      |      | 4 PCS.       |
|  | SD11T308R15-D1  |                         |    |      |     | 1,5 | 11,0  | 2,83 |      |      | 4 PCS.       |
|  | SD11T308R20-D1  |                         |    |      |     | 2,0 | 11,25 | 6,35 | 2,52 | /    | 4 PCS.       |
|  | SD11T308R25-D1  |                         |    |      |     | 2,5 | 11,5  |      | 2,27 |      | 4 PCS.       |
|  | SD11T308R30-D1  |                         |    |      |     | 3,0 | 11,75 |      | 2,1  |      | 4 PCS.       |
|  | SD11T308R10-TIN | TIN<br>(HV 2500 ±400)   | 11 | 3,97 | 0,8 | 1,0 | 10,75 | 3,0  |      |      | 4 PCS.       |
|  | SD11T308R15-TIN |                         |    |      |     | 1,5 | 11,0  | 2,83 |      |      | 4 PCS.       |
|  | SD11T308R20-TIN |                         |    |      |     | 2,0 | 11,25 | 6,35 | 2,52 | /    | 4 PCS.       |
|  | SD11T308R25-TIN |                         |    |      |     | 2,5 | 11,5  |      | 2,27 |      | 4 PCS.       |
|  | SD11T308R30-TIN |                         |    |      |     | 3,0 | 11,75 |      | 2,1  |      | 4 PCS.       |
|  | SD11T308R10-ZRN | ZRN<br>(HV 2500 ±300)   | 11 | 3,97 | 0,8 | 1,0 | 10,75 | 3,0  |      |      | 4 PCS.       |
|  | SD11T308R15-ZRN |                         |    |      |     | 1,5 | 11,0  | 2,83 |      |      | 4 PCS.       |
|  | SD11T308R20-ZRN |                         |    |      |     | 2,0 | 11,25 | 6,35 | 2,52 | /    | 4 PCS.       |
|  | SD11T308R25-ZRN |                         |    |      |     | 2,5 | 11,5  |      | 2,27 |      | 4 PCS.       |
|  | SD11T308R30-ZRN |                         |    |      |     | 3,0 | 11,75 |      | 2,1  |      | 4 PCS.       |

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. The paper has a white background and is framed by a thin blue border. There are no markings, text, or drawings on the grid.

I dati indicati non sono impegnativi e  
possono essere modificati anche senza preavviso.

**JOLLY - 2012/04**  
**Rev.01-0-1**

*The data are not binding and  
can be changed without advance notice.*

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