

# ANNULAR

# CUTTERS



**ANNULAR CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE**

**HSS**

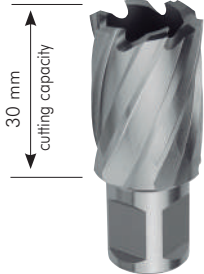


**75**  
Kg/mm<sup>2</sup>

Ref. 250R

**30 mm**  
CUTTING  
CAPACITY

AVAILABLE FOR MACHINES TYPES AS BELOW:  
Rota Broach - Alfra Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen



| 250R   |         |        |
|--------|---------|--------|
|        | Ø<br>mm | €      |
| 250R12 | 12      | 38,03  |
| 250R13 | 13      | 38,03  |
| 250R14 | 14      | 39,43  |
| 250R15 | 15      | 41,07  |
| 250R16 | 16      | 42,73  |
| 250R17 | 17      | 44,10  |
| 250R18 | 18      | 45,75  |
| 250R19 | 19      | 46,86  |
| 250R20 | 20      | 49,07  |
| 250R21 | 21      | 52,37  |
| 250R22 | 22      | 54,31  |
| 250R23 | 23      | 56,51  |
| 250R24 | 24      | 58,73  |
| 250R25 | 25      | 60,64  |
| 250R26 | 26      | 62,84  |
| 250R27 | 27      | 63,40  |
| 250R28 | 28      | 67,26  |
| 250R29 | 29      | 69,47  |
| 250R30 | 30      | 71,39  |
| 250R31 | 31      | 77,73  |
| 250R32 | 32      | 83,24  |
| 250R33 | 33      | 87,65  |
| 250R34 | 34      | 103,11 |
| 250R35 | 35      | 114,13 |
| 250R36 | 36      | 116,89 |
| 250R37 | 37      | 118,98 |
| 250R38 | 38      | 120,17 |
| 250R39 | 39      | 121,27 |
| 250R40 | 40      | 122,39 |
| 250R41 | 41      | 124,59 |
| 250R42 | 42      | 132,87 |
| 250R43 | 43      | 138,92 |
| 250R44 | 44      | 143,33 |
| 250R45 | 45      | 144,99 |
| 250R46 | 46      | 148,29 |
| 250R47 | 47      | 151,05 |
| 250R48 | 48      | 157,12 |
| 250R49 | 49      | 158,24 |
| 250R50 | 50      | 167,59 |

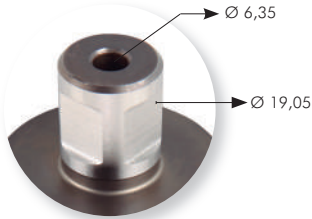
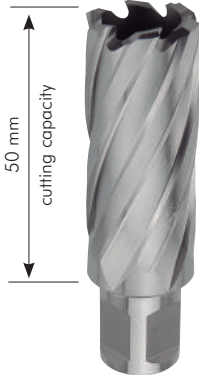
**HSS**



**75**  
Kg/mm<sup>2</sup>

Ref. 500R

**50 mm**  
CUTTING  
CAPACITY



| 500R   |         |        |
|--------|---------|--------|
|        | Ø<br>mm | €      |
| 500R12 | 12      | 72,64  |
| 500R13 | 13      | 72,64  |
| 500R14 | 14      | 54,58  |
| 500R15 | 15      | 56,77  |
| 500R16 | 16      | 60,64  |
| 500R17 | 17      | 62,84  |
| 500R18 | 18      | 67,54  |
| 500R19 | 19      | 68,92  |
| 500R20 | 20      | 70,83  |
| 500R21 | 21      | 78,83  |
| 500R22 | 22      | 81,05  |
| 500R23 | 23      | 83,80  |
| 500R24 | 24      | 86,28  |
| 500R25 | 25      | 88,75  |
| 500R26 | 26      | 91,51  |
| 500R27 | 27      | 95,92  |
| 500R28 | 28      | 100,34 |
| 500R29 | 29      | 104,20 |
| 500R30 | 30      | 108,61 |
| 500R31 | 31      | 114,13 |
| 500R32 | 32      | 119,08 |
| 500R33 | 33      | 124,59 |
| 500R34 | 34      | 130,11 |
| 500R35 | 35      | 135,63 |
| 500R36 | 36      | 139,47 |
| 500R37 | 37      | 144,73 |
| 500R38 | 38      | 148,86 |
| 500R39 | 39      | 159,88 |
| 500R40 | 40      | 168,15 |
| 500R41 | 41      | 170,91 |
| 500R42 | 42      | 173,11 |
| 500R43 | 43      | 177,53 |
| 500R44 | 44      | 179,72 |
| 500R45 | 45      | 185,23 |
| 500R46 | 46      | 187,44 |
| 500R47 | 47      | 197,91 |
| 500R48 | 48      | 202,87 |
| 500R49 | 49      | 203,98 |
| 500R50 | 50      | 208,38 |

**SCREW HOLE PUNCH BODY Ø 6,35 mm**



|         | DESCRIPTION                                  | L<br>mm | €     |
|---------|----------------------------------------------|---------|-------|
| P250CA  | Standard pin for cutters 250R/C series       | 71      | 17,01 |
| P250CAA | For using with adaptors to FEIN/NITTO 250R/C | 101     | 20,42 |
| P500CA  | Standard pin for cutters 500R/C series       | 92      | 23,93 |

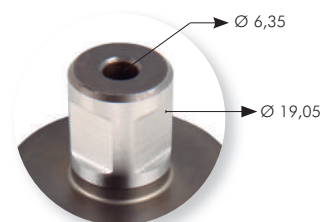
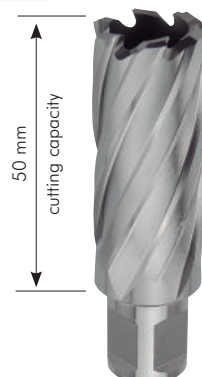
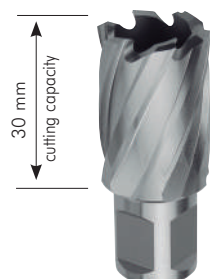
## ANNULAR CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE

**HSSCo 8%**  **110 Kg/mm²** Ref. 250C **30 mm CUTTING CAPACITY**

**HSSCo 8%**  **110 Kg/mm²** Ref. 500C **50 mm CUTTING CAPACITY**

AVAILABLE FOR MACHINES TYPES AS BELOW:

Rota Broach - Alfa Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen



| 250C   |      |        | 250C    |      |        |
|--------|------|--------|---------|------|--------|
|        | Ø mm | €      |         | Ø mm | €      |
| 250C12 | 12   | 58,70  | 250C57  | 57   | 246,24 |
| 250C13 | 13   | 58,70  | 250C58  | 58   | 271,57 |
| 250C14 | 14   | 58,70  | 250C59  | 59   | 279,91 |
| 250C15 | 15   | 60,13  | 250C60  | 60   | 282,06 |
| 250C16 | 16   | 60,86  | 250C61  | 61   | 302,50 |
| 250C17 | 17   | 62,99  | 250C62  | 62   | 305,77 |
| 250C18 | 18   | 65,15  | 250C63  | 63   | 309,02 |
| 250C19 | 19   | 67,30  | 250C64  | 64   | 325,40 |
| 250C20 | 20   | 70,88  | 250C65  | 65   | 335,85 |
| 250C21 | 21   | 74,45  | 250C66  | 66   | 489,91 |
| 250C22 | 22   | 76,61  | 250C67  | 67   | 496,47 |
| 250C23 | 23   | 80,55  | 250C68  | 68   | 506,43 |
| 250C24 | 24   | 83,41  | 250C69  | 69   | 518,21 |
| 250C25 | 25   | 86,99  | 250C70  | 70   | 531,73 |
| 250C26 | 26   | 89,49  | 250C71  | 71   | 555,66 |
| 250C27 | 27   | 92,35  | 250C72  | 72   | 559,85 |
| 250C28 | 28   | 95,59  | 250C73  | 73   | 564,95 |
| 250C29 | 29   | 98,45  | 250C74  | 74   | 575,22 |
| 250C30 | 30   | 100,93 | 250C75  | 75   | 565,75 |
| 250C31 | 31   | 109,90 | 250C76  | 76   | 598,14 |
| 250C32 | 32   | 117,63 | 250C77  | 77   | 600,45 |
| 250C33 | 33   | 124,03 | 250C78  | 78   | 602,91 |
| 250C34 | 34   | 125,52 | 250C79  | 79   | 610,88 |
| 250C35 | 35   | 145,27 | 250C80  | 80   | 595,08 |
| 250C36 | 36   | 145,90 | 250C81  | 81   | 625,43 |
| 250C37 | 37   | 156,74 | 250C82  | 82   | 636,27 |
| 250C38 | 38   | 165,03 | 250C83  | 83   | 649,17 |
| 250C39 | 39   | 165,84 | 250C84  | 84   | 662,98 |
| 250C40 | 40   | 167,45 | 250C85  | 85   | 640,31 |
| 250C41 | 41   | 171,12 | 250C86  | 86   | 669,40 |
| 250C42 | 42   | 166,52 | 250C87  | 87   | 673,34 |
| 250C43 | 43   | 173,69 | 250C88  | 88   | 681,64 |
| 250C44 | 44   | 179,21 | 250C89  | 89   | 687,14 |
| 250C45 | 45   | 185,81 | 250C90  | 90   | 697,25 |
| 250C46 | 46   | 191,89 | 250C91  | 91   | 704,89 |
| 250C47 | 47   | 197,40 | 250C92  | 92   | 711,38 |
| 250C48 | 48   | 201,82 | 250C93  | 93   | 718,53 |
| 250C49 | 49   | 228,92 | 250C94  | 94   | 728,31 |
| 250C50 | 50   | 208,44 | 250C95  | 95   | 735,21 |
| 250C51 | 51   | 217,47 | 250C96  | 96   | 742,11 |
| 250C52 | 52   | 223,86 | 250C97  | 97   | 748,78 |
| 250C53 | 53   | 231,85 | 250C98  | 98   | 758,88 |
| 250C54 | 54   | 196,50 | 250C99  | 99   | 769,07 |
| 250C55 | 55   | 212,67 | 250C100 | 100  | 782,30 |
| 250C56 | 56   | 230,08 |         |      |        |

| 500C   |      |        | 500C    |      |        |
|--------|------|--------|---------|------|--------|
|        | Ø mm | €      |         | Ø mm | €      |
| 500C12 | 12   | 80,83  | 500C57  | 57   | 372,56 |
| 500C13 | 13   | 76,24  | 500C58  | 58   | 411,04 |
| 500C14 | 14   | 76,24  | 500C59  | 59   | 423,72 |
| 500C15 | 15   | 79,48  | 500C60  | 60   | 434,49 |
| 500C16 | 16   | 85,90  | 500C61  | 61   | 444,60 |
| 500C17 | 17   | 86,99  | 500C62  | 62   | 450,82 |
| 500C18 | 18   | 97,38  | 500C63  | 63   | 468,06 |
| 500C19 | 19   | 99,86  | 500C64  | 64   | 475,79 |
| 500C20 | 20   | 104,88 | 500C65  | 65   | 488,38 |
| 500C21 | 21   | 111,32 | 500C66  | 66   | 549,34 |
| 500C22 | 22   | 113,83 | 500C67  | 67   | 566,21 |
| 500C23 | 23   | 117,76 | 500C68  | 68   | 574,34 |
| 500C24 | 24   | 120,28 | 500C69  | 69   | 582,56 |
| 500C25 | 25   | 125,29 | 500C70  | 70   | 591,11 |
| 500C26 | 26   | 130,47 | 500C71  | 71   | 620,45 |
| 500C27 | 27   | 135,66 | 500C72  | 72   | 623,97 |
| 500C28 | 28   | 131,89 | 500C73  | 73   | 628,01 |
| 500C29 | 29   | 138,27 | 500C74  | 74   | 638,23 |
| 500C30 | 30   | 125,71 | 500C75  | 75   | 627,89 |
| 500C31 | 31   | 132,33 | 500C76  | 76   | 666,85 |
| 500C32 | 32   | 137,84 | 500C77  | 77   | 672,31 |
| 500C33 | 33   | 142,27 | 500C78  | 78   | 679,61 |
| 500C34 | 34   | 147,23 | 500C79  | 79   | 685,60 |
| 500C35 | 35   | 151,64 | 500C80  | 80   | 665,17 |
| 500C36 | 36   | 156,60 | 500C81  | 81   | 696,95 |
| 500C37 | 37   | 159,90 | 500C82  | 82   | 703,82 |
| 500C38 | 38   | 165,41 | 500C83  | 83   | 714,47 |
| 500C39 | 39   | 178,70 | 500C84  | 84   | 722,66 |
| 500C40 | 40   | 184,51 | 500C85  | 85   | 705,85 |
| 500C41 | 41   | 188,57 | 500C86  | 86   | 747,50 |
| 500C42 | 42   | 194,98 | 500C87  | 87   | 758,50 |
| 500C43 | 43   | 201,96 | 500C88  | 88   | 762,11 |
| 500C44 | 44   | 208,94 | 500C89  | 89   | 765,80 |
| 500C45 | 45   | 214,19 | 500C90  | 90   | 773,12 |
| 500C46 | 46   | 221,75 | 500C91  | 91   | 780,69 |
| 500C47 | 47   | 226,98 | 500C92  | 92   | 791,43 |
| 500C48 | 48   | 233,99 | 500C93  | 93   | 798,03 |
| 500C49 | 49   | 296,89 | 500C94  | 94   | 807,89 |
| 500C50 | 50   | 241,55 | 500C95  | 95   | 819,16 |
| 500C51 | 51   | 323,35 | 500C96  | 96   | 825,94 |
| 500C52 | 52   | 328,68 | 500C97  | 97   | 834,39 |
| 500C53 | 53   | 335,79 | 500C98  | 98   | 843,90 |
| 500C54 | 54   | 344,67 | 500C99  | 99   | 863,71 |
| 500C55 | 55   | 351,77 | 500C100 | 100  | 872,78 |
| 500C56 | 56   | 374,86 |         |      |        |

### SCREW HOLE PUNCH BODY Ø 6,35 mm



|         | DESCRIPTION                                  | L mm | €     |
|---------|----------------------------------------------|------|-------|
| P250CA  | Standard pin for cutters 250R/C series       | 71   | 17,01 |
| P250CAA | For using with adaptors to FEIN/NITTO 250R/C | 101  | 20,42 |
| P500CA  | Standard pin for cutters 500R/C series       | 92   | 23,93 |

# ANNULAR CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE

**HSSCo**  
**8%**

**110**  
**Kg/mm<sup>2</sup>**

**TiAlN**

Ref. 250T

**30 mm**  
**CUTTING**  
**CAPACITY**

**HSSCo**  
**8%**

**110**  
**Kg/mm<sup>2</sup>**

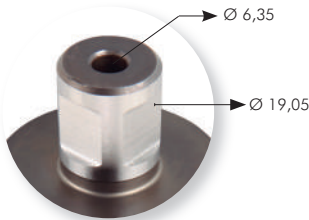
**TiAlN**

Ref. 500T

**50 mm**  
**CUTTING**  
**CAPACITY**

AVAILABLE FOR MACHINES TYPES AS BELOW:

Rota Broach - Alfa Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen



| 250T   |      |        |
|--------|------|--------|
|        | Ø mm | €      |
| 250T12 | 12   | 75,99  |
| 250T13 | 13   | 75,99  |
| 250T14 | 14   | 75,99  |
| 250T15 | 15   | 79,15  |
| 250T16 | 16   | 79,15  |
| 250T17 | 17   | 85,30  |
| 250T18 | 18   | 88,46  |
| 250T19 | 19   | 90,24  |
| 250T20 | 20   | 93,82  |
| 250T21 | 21   | 100,53 |
| 250T22 | 22   | 104,88 |
| 250T23 | 23   | 108,66 |
| 250T24 | 24   | 112,60 |
| 250T25 | 25   | 116,96 |
| 250T26 | 26   | 121,33 |
| 250T27 | 27   | 125,49 |
| 250T28 | 28   | 129,44 |
| 250T29 | 29   | 133,59 |
| 250T30 | 30   | 137,36 |
| 250T31 | 31   | 150,02 |
| 250T32 | 32   | 160,71 |
| 250T33 | 33   | 171,00 |
| 250T34 | 34   | 181,48 |
| 250T35 | 35   | 187,62 |

| 250T   |      |        |
|--------|------|--------|
|        | Ø mm | €      |
| 250T36 | 36   | 197,52 |
| 250T37 | 37   | 213,74 |
| 250T38 | 38   | 223,63 |
| 250T39 | 39   | 233,52 |
| 250T40 | 40   | 241,45 |
| 250T41 | 41   | 242,62 |
| 250T42 | 42   | 254,03 |
| 250T43 | 43   | 263,56 |
| 250T44 | 44   | 270,89 |
| 250T45 | 45   | 279,67 |
| 250T46 | 46   | 287,75 |
| 250T47 | 47   | 295,06 |
| 250T48 | 48   | 300,93 |
| 250T49 | 49   | 336,96 |
| 250T50 | 50   | 309,73 |
| 250T51 | 51   | 321,73 |
| 250T52 | 52   | 330,22 |
| 250T53 | 53   | 340,85 |
| 250T54 | 54   | 368,47 |
| 250T55 | 55   | 401,23 |
| 250T56 | 56   | 430,98 |
| 250T57 | 57   | 458,59 |
| 250T58 | 58   | 501,86 |
| 250T59 | 59   | 516,12 |
| 250T60 | 60   | 519,79 |

| 500T   |      |        |
|--------|------|--------|
|        | Ø mm | €      |
| 500T12 | 12   | 101,51 |
| 500T13 | 13   | 101,51 |
| 500T14 | 14   | 101,51 |
| 500T15 | 15   | 110,24 |
| 500T16 | 16   | 117,96 |
| 500T17 | 17   | 122,31 |
| 500T18 | 18   | 131,40 |
| 500T19 | 19   | 134,77 |
| 500T20 | 20   | 141,70 |
| 500T21 | 21   | 152,19 |
| 500T22 | 22   | 157,13 |
| 500T23 | 23   | 162,48 |
| 500T24 | 24   | 167,63 |
| 500T25 | 25   | 172,98 |
| 500T26 | 26   | 177,90 |
| 500T27 | 27   | 186,04 |
| 500T28 | 28   | 194,14 |
| 500T29 | 29   | 203,85 |
| 500T30 | 30   | 211,75 |
| 500T31 | 31   | 221,66 |
| 500T32 | 32   | 225,62 |
| 500T33 | 33   | 235,51 |
| 500T34 | 34   | 243,44 |
| 500T35 | 35   | 253,33 |

| 500T   |      |        |
|--------|------|--------|
|        | Ø mm | €      |
| 500T36 | 36   | 261,24 |
| 500T37 | 37   | 273,11 |
| 500T38 | 38   | 281,03 |
| 500T39 | 39   | 288,95 |
| 500T40 | 40   | 304,78 |
| 500T41 | 41   | 309,90 |
| 500T42 | 42   | 317,97 |
| 500T43 | 43   | 329,34 |
| 500T44 | 44   | 339,30 |
| 500T45 | 45   | 348,48 |
| 500T46 | 46   | 359,57 |
| 500T47 | 47   | 368,71 |
| 500T48 | 48   | 377,55 |
| 500T49 | 49   | 459,78 |
| 500T50 | 50   | 390,10 |
| 500T51 | 51   | 475,31 |
| 500T52 | 52   | 481,34 |
| 500T53 | 53   | 491,15 |
| 500T54 | 54   | 503,26 |
| 500T55 | 55   | 513,12 |
| 500T56 | 56   | 542,12 |
| 500T57 | 57   | 590,27 |
| 500T58 | 58   | 642,80 |
| 500T59 | 59   | 661,06 |
| 500T60 | 60   | 676,76 |

## SCREW HOLE PUNCH BODY Ø 6,35 mm



|         | DESCRIPTION                                  | L mm | €     |
|---------|----------------------------------------------|------|-------|
| P250CA  | Standard pin for cutters 250R/C series       | 71   | 17,01 |
| P250CAA | For using with adaptors to FEIN/NITTO 250R/C | 101  | 20,42 |
| P500CA  | Standard pin for cutters 500R/C series       | 92   | 23,93 |



## ANNULAR CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE

**HSSCo**  
**8%**

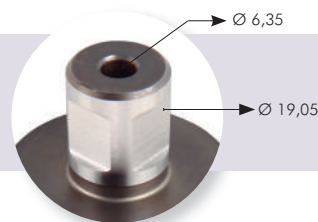


Ref. 750C

**75 mm**  
**CUTTING**  
**CAPACITY**

Ref. 1000C

**100 mm**  
**CUTTING**  
**CAPACITY**



AVAILABLE FOR MACHINES TYPES AS BELOW:

Rota Broach - Alfra Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen



| 750C   |         |        |
|--------|---------|--------|
|        | Ø<br>mm | €      |
| 750C18 | 18      | 101,84 |
| 750C19 | 19      | 106,09 |
| 750C20 | 20      | 111,39 |
| 750C21 | 21      | 115,56 |
| 750C22 | 22      | 122,62 |
| 750C23 | 23      | 127,51 |
| 750C24 | 24      | 132,09 |
| 750C25 | 25      | 134,81 |
| 750C26 | 26      | 138,74 |
| 750C27 | 27      | 142,66 |
| 750C28 | 28      | 148,67 |
| 750C29 | 29      | 155,09 |
| 750C30 | 30      | 162,87 |
| 750C31 | 31      | 165,52 |
| 750C32 | 32      | 171,05 |
| 750C33 | 33      | 182,76 |
| 750C34 | 34      | 186,37 |
| 750C35 | 35      | 189,74 |
| 750C36 | 36      | 194,79 |
| 750C37 | 37      | 200,49 |
| 750C38 | 38      | 206,51 |
| 750C39 | 39      | 220,29 |
| 750C40 | 40      | 230,08 |
| 750C41 | 41      | 232,23 |
| 750C42 | 42      | 249,96 |
| 750C43 | 43      | 263,12 |
| 750C44 | 44      | 276,59 |
| 750C45 | 45      | 290,22 |
| 750C46 | 46      | 312,59 |
| 750C47 | 47      | 325,03 |
| 750C48 | 48      | 339,06 |
| 750C49 | 49      | 353,82 |

| 750C    |         |          |
|---------|---------|----------|
|         | Ø<br>mm | €        |
| 750C50  | 50      | 367,53   |
| 750C51  | 51      | 383,40   |
| 750C52  | 52      | 386,94   |
| 750C53  | 53      | 390,39   |
| 750C54  | 54      | 395,12   |
| 750C55  | 55      | 401,40   |
| 750C56  | 56      | 408,99   |
| 750C57  | 57      | 412,92   |
| 750C58  | 58      | 422,31   |
| 750C59  | 59      | 432,41   |
| 750C60  | 60      | 454,22   |
| 750C61  | 61      | 472,17   |
| 750C62  | 62      | 485,74   |
| 750C63  | 63      | 494,96   |
| 750C64  | 64      | 507,63   |
| 750C65  | 65      | 520,30   |
| 750C66  | 66      | 650,05   |
| 750C67  | 67      | 665,20   |
| 750C68  | 68      | 679,33   |
| 750C69  | 69      | 690,31   |
| 750C70  | 70      | 699,29   |
| 750C71  | 71      | 709,22   |
| 750C72  | 72      | 720,84   |
| 750C73  | 73      | 731,82   |
| 750C74  | 74      | 741,51   |
| 750C75  | 75      | 749,82   |
| 750C76  | 76      | 758,58   |
| 750C77  | 77      | 765,38   |
| 750C78  | 78      | 773,08   |
| 750C79  | 79      | 788,94   |
| 750C80  | 80      | 810,28   |
| 750C81  | 81      | 834,44   |
| 750C82  | 82      | 842,78   |
| 750C83  | 83      | 867,62   |
| 750C84  | 84      | 886,29   |
| 750C85  | 85      | 908,21   |
| 750C86  | 86      | 935,40   |
| 750C87  | 87      | 962,47   |
| 750C88  | 88      | 978,43   |
| 750C89  | 89      | 1.001,66 |
| 750C90  | 90      | 1.023,53 |
| 750C91  | 91      | 1.057,75 |
| 750C92  | 92      | 1.088,59 |
| 750C93  | 93      | 1.111,75 |
| 750C94  | 94      | 1.146,35 |
| 750C95  | 95      | 1.178,96 |
| 750C96  | 96      | 1.197,55 |
| 750C97  | 97      | 1.222,47 |
| 750C98  | 98      | 1.246,66 |
| 750C99  | 99      | 1.267,01 |
| 750C100 | 100     | 1.289,05 |



| 1000C   |         |        |
|---------|---------|--------|
|         | Ø<br>mm | €      |
| 1000C18 | 18      | 148,95 |
| 1000C19 | 19      | 156,56 |
| 1000C20 | 20      | 164,18 |
| 1000C21 | 21      | 173,50 |
| 1000C22 | 22      | 180,97 |
| 1000C23 | 23      | 186,00 |
| 1000C24 | 24      | 194,95 |
| 1000C25 | 25      | 196,43 |
| 1000C26 | 26      | 197,83 |
| 1000C27 | 27      | 200,05 |
| 1000C28 | 28      | 209,30 |
| 1000C29 | 29      | 217,81 |
| 1000C30 | 30      | 228,38 |
| 1000C31 | 31      | 232,22 |
| 1000C32 | 32      | 238,22 |
| 1000C33 | 33      | 254,63 |
| 1000C34 | 34      | 258,26 |
| 1000C35 | 35      | 262,47 |
| 1000C36 | 36      | 269,79 |
| 1000C37 | 37      | 278,89 |
| 1000C38 | 38      | 285,62 |
| 1000C39 | 39      | 292,57 |
| 1000C40 | 40      | 301,67 |
| 1000C41 | 41      | 312,70 |
| 1000C42 | 42      | 336,65 |
| 1000C43 | 43      | 354,03 |
| 1000C44 | 44      | 371,71 |
| 1000C45 | 45      | 387,09 |
| 1000C46 | 46      | 403,58 |
| 1000C47 | 47      | 424,58 |
| 1000C48 | 48      | 445,44 |
| 1000C49 | 49      | 461,27 |

| 1000C    |         |          |
|----------|---------|----------|
|          | Ø<br>mm | €        |
| 1000C50  | 50      | 467,99   |
| 1000C51  | 51      | 473,69   |
| 1000C52  | 52      | 476,14   |
| 1000C53  | 53      | 478,06   |
| 1000C54  | 54      | 480,94   |
| 1000C55  | 55      | 486,11   |
| 1000C56  | 56      | 491,51   |
| 1000C57  | 57      | 495,07   |
| 1000C58  | 58      | 507,27   |
| 1000C59  | 59      | 518,44   |
| 1000C60  | 60      | 540,04   |
| 1000C61  | 61      | 549,58   |
| 1000C62  | 62      | 564,44   |
| 1000C63  | 63      | 573,61   |
| 1000C64  | 64      | 588,77   |
| 1000C65  | 65      | 597,79   |
| 1000C66  | 66      | 692,60   |
| 1000C67  | 67      | 707,32   |
| 1000C68  | 68      | 720,49   |
| 1000C69  | 69      | 735,87   |
| 1000C70  | 70      | 741,64   |
| 1000C71  | 71      | 755,99   |
| 1000C72  | 72      | 766,79   |
| 1000C73  | 73      | 776,84   |
| 1000C74  | 74      | 785,57   |
| 1000C75  | 75      | 794,96   |
| 1000C76  | 76      | 805,25   |
| 1000C77  | 77      | 809,31   |
| 1000C78  | 78      | 813,46   |
| 1000C79  | 79      | 830,98   |
| 1000C80  | 80      | 850,65   |
| 1000C81  | 81      | 870,40   |
| 1000C82  | 82      | 885,64   |
| 1000C83  | 83      | 903,23   |
| 1000C84  | 84      | 924,46   |
| 1000C85  | 85      | 1.103,39 |
| 1000C86  | 86      | 1.146,01 |
| 1000C87  | 87      | 1.171,30 |
| 1000C88  | 88      | 1.196,48 |
| 1000C89  | 89      | 1.219,09 |
| 1000C90  | 90      | 1.251,71 |
| 1000C91  | 91      | 1.290,02 |
| 1000C92  | 92      | 1.324,79 |
| 1000C93  | 93      | 1.355,24 |
| 1000C94  | 94      | 1.401,06 |
| 1000C95  | 95      | 1.434,71 |
| 1000C96  | 96      | 1.458,79 |
| 1000C97  | 97      | 1.487,68 |
| 1000C98  | 98      | 1.513,75 |
| 1000C99  | 99      | 1.537,91 |
| 1000C100 | 100     | 1.573,81 |

### SCREW HOLE PUNCH BODY Ø 6,35 mm



|          | DESCRIPTION                                 | L<br>mm | €     |
|----------|---------------------------------------------|---------|-------|
| P750CA   | Standard pin for cutters 750C series        | 123     | 26,22 |
| P1000CA  | Standard pin for cutters 1000C series       | 147     | 37,56 |
| P1000CAA | For using with adaptors to FEIN/NITTO 1000C | 177     | 31,46 |

ANNULAR CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE

HSS



Ref. 1500C

150 mm  
CUTTING  
CAPACITY

HSS



Ref. 2000C

200 mm  
CUTTING  
CAPACITY



| 1500C   |         |          |
|---------|---------|----------|
|         | Ø<br>mm | €        |
| 1500C22 | 22      | 477,20   |
| 1500C24 | 24      | 514,07   |
| 1500C26 | 26      | 521,67   |
| 1500C28 | 28      | 551,90   |
| 1500C30 | 30      | 602,20   |
| 1500C32 | 32      | 685,39   |
| 1500C34 | 34      | 743,06   |
| 1500C36 | 36      | 776,25   |
| 1500C38 | 38      | 821,80   |
| 1500C40 | 40      | 867,97   |
| 1500C42 | 42      | 968,61   |
| 1500C44 | 44      | 1.069,49 |
| 1500C46 | 46      | 1.161,19 |
| 1500C48 | 48      | 1.281,62 |
| 1500C50 | 50      | 1.346,53 |

| 2000C   |         |          |
|---------|---------|----------|
|         | Ø<br>mm | €        |
| 2000C26 | 26      | 725,12   |
| 2000C28 | 28      | 767,15   |
| 2000C30 | 30      | 837,06   |
| 2000C32 | 32      | 952,69   |
| 2000C34 | 34      | 1.032,84 |
| 2000C36 | 36      | 1.153,28 |
| 2000C38 | 38      | 1.220,93 |
| 2000C40 | 40      | 1.289,53 |
| 2000C42 | 42      | 1.439,06 |
| 2000C44 | 44      | 1.588,92 |
| 2000C46 | 46      | 1.725,16 |
| 2000C48 | 48      | 1.952,43 |
| 2000C50 | 50      | 2.051,30 |

SCREW HOLE PUNCH BODY Ø 8 mm



|         | DESCRIPTION                          | L<br>mm | €     |
|---------|--------------------------------------|---------|-------|
| P1500CA | Standard pin for cutters 1500 series | 198     | 45,00 |
| P2000CA | Standard pin for cutters 2000 series | 248     | 57,01 |

# CARBIDE TIPPED CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE

35 mm  
CUTTING  
CAPACITY

50 mm  
CUTTING  
CAPACITY

CARBIDE  
TIPPED



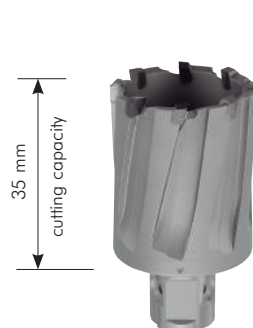
INOX

Al

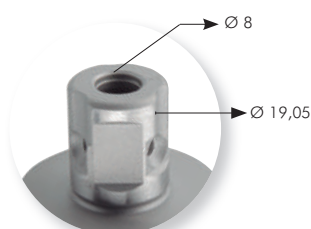


Cu - Ni - La

CAST  
IRON



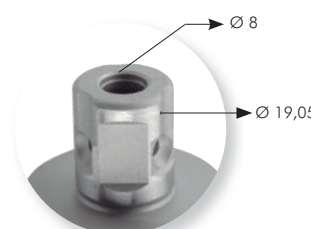
Ref. 350A



WELDON & NITTO  
UNIVERSAL SHANK



Ref. 500A



WELDON & NITTO  
UNIVERSAL SHANK

## 35 mm CAPACITY

|           | Ø<br>mm | €      |
|-----------|---------|--------|
| 350A12    | 12,0    | 120,83 |
| 350A13    | 13,0    | 120,83 |
| 350A14    | 14,0    | 120,83 |
| 350A15    | 15,0    | 120,83 |
| 350A16    | 16,0    | 120,83 |
| 350A17    | 17,0    | 120,83 |
| 350A17,5* | 17,5    | 120,83 |
| 350A18    | 18,0    | 120,83 |
| 350A19    | 19,0    | 120,83 |
| 350A20    | 20,0    | 120,83 |
| 350A21    | 21,0    | 120,83 |
| 350A21,5* | 21,5    | 129,66 |
| 350A22    | 22,0    | 129,66 |
| 350A22,5* | 22,5    | 129,66 |
| 350A23    | 23,0    | 129,66 |
| 350A23,5* | 23,5    | 129,66 |
| 350A24    | 24,0    | 129,66 |
| 350A24,5* | 24,5    | 129,66 |
| 350A25    | 25,0    | 129,66 |

|            | Ø<br>mm | €      |
|------------|---------|--------|
| 350A25,5 * | 25,5    | 129,66 |
| 350A26     | 26,0    | 129,66 |
| 350A26,5 * | 26,5    | 129,66 |
| 350A27     | 27,0    | 129,66 |
| 350A28     | 28,0    | 129,66 |
| 350A29     | 29,0    | 129,66 |
| 350A30     | 30,0    | 129,66 |
| 350A31     | 31,0    | 144,41 |
| 350A32     | 32,0    | 144,41 |
| 350A33     | 33,0    | 144,41 |
| 350A34     | 34,0    | 144,41 |
| 350A35     | 35,0    | 144,41 |
| 350A36     | 36,0    | 144,41 |
| 350A37     | 37,0    | 144,41 |
| 350A38     | 38,0    | 144,41 |
| 350A39     | 39,0    | 165,04 |
| 350A40     | 40,0    | 167,10 |
| 350A41     | 41,0    | 169,17 |
| 350A42     | 42,0    | 171,23 |
| 350A43     | 43,0    | 173,29 |
| 350A44     | 44,0    | 175,36 |
| 350A45     | 45,0    | 177,42 |
| 350A46     | 46,0    | 179,48 |
| 350A47     | 47,0    | 181,54 |
| 350A48     | 48,0    | 183,61 |
| 350A49     | 49,0    | 185,67 |
| 350A50     | 50,0    | 187,73 |
| 350A51     | 51,0    | 189,80 |
| 350A52     | 52,0    | 191,86 |



- The hit between cutter and material must be soft, without crashings or hard pushings.
- Use CUT MAGIC cutting fluid.

## 50 mm CUTTING CAPACITY

|           | Ø<br>mm | €      |
|-----------|---------|--------|
| 500A14    | 14,0    | 135,77 |
| 500A15    | 15,0    | 135,77 |
| 500A16    | 16,0    | 135,77 |
| 500A17    | 17,0    | 135,77 |
| 500A17,5* | 17,5    | 135,77 |
| 500A18    | 18,0    | 135,77 |
| 500A19    | 19,0    | 135,77 |
| 500A20    | 20,0    | 135,77 |
| 500A21    | 21,0    | 135,77 |
| 500A21,5* | 21,5    | 145,25 |
| 500A22    | 22,0    | 145,25 |
| 500A22,5* | 22,5    | 145,25 |
| 500A23    | 23,0    | 145,25 |
| 500A23,5* | 23,5    | 145,25 |
| 500A24    | 24,0    | 145,25 |
| 500A24,5* | 24,5    | 145,25 |
| 500A25    | 25,0    | 145,25 |
| 500A26    | 26,0    | 145,25 |
| 500A26,5* | 26,5    | 145,25 |
| 500A27    | 27,0    | 145,25 |
| 500A28    | 28,0    | 145,25 |
| 500A29    | 29,0    | 145,25 |
| 500A30    | 30,0    | 145,25 |
| 500A31    | 31,0    | 161,04 |
| 500A32    | 32,0    | 161,04 |
| 500A33    | 33,0    | 161,04 |
| 500A34    | 34,0    | 161,04 |
| 500A35    | 35,0    | 161,04 |
| 500A36    | 36,0    | 184,70 |
| 500A37    | 37,0    | 184,70 |
| 500A38    | 38,0    | 184,70 |
| 500A39    | 39,0    | 184,70 |

|        | Ø<br>mm | €      |
|--------|---------|--------|
| 500A40 | 40,0    | 184,70 |
| 500A41 | 41,0    | 216,29 |
| 500A42 | 42,0    | 216,29 |
| 500A43 | 43,0    | 216,29 |
| 500A44 | 44,0    | 216,29 |
| 500A45 | 45,0    | 216,29 |
| 500A46 | 46,0    | 239,97 |
| 500A47 | 47,0    | 239,97 |
| 500A48 | 48,0    | 239,97 |
| 500A49 | 49,0    | 239,97 |
| 500A50 | 50,0    | 239,97 |
| 500A51 | 51,0    | 265,22 |
| 500A52 | 52,0    | 265,22 |
| 500A53 | 53,0    | 265,22 |
| 500A54 | 54,0    | 265,22 |
| 500A55 | 55,0    | 265,22 |
| 500A56 | 56,0    | 299,96 |
| 500A57 | 57,0    | 299,96 |
| 500A58 | 58,0    | 299,96 |
| 500A59 | 59,0    | 299,96 |
| 500A60 | 60,0    | 299,96 |
| 500A61 | 61,0    | 347,32 |
| 500A62 | 62,0    | 347,32 |
| 500A63 | 63,0    | 347,32 |
| 500A64 | 64,0    | 347,32 |
| 500A65 | 65,0    | 347,32 |
| 500A66 | 66,0    | 368,37 |
| 500A67 | 67,0    | 368,37 |
| 500A68 | 68,0    | 368,37 |
| 500A69 | 69,0    | 368,37 |
| 500A70 | 70,0    | 368,37 |

\*Until end of stock

## PILOT PINS FOR CARBIDE TIPPED CUTTERS



Ref. P350AA



Ref. P350AA-1

|          | DESCRIPTION               | Ø x L<br>mm | €     |
|----------|---------------------------|-------------|-------|
| P350AA   | 350A Ø 12 - 15 mm cutters | Ø 5 x 91    | 17,68 |
| P350AA-1 | 350A Ø 16 - 52 mm cutters | Ø 8 x 91    | 17,94 |
| P500AA   | 500A Ø 14 - 16 mm cutters | Ø 5 x 112   | 20,55 |
| P500AA   | 500A Ø 17 - 70 mm cutters | Ø 8 x 112   | 20,13 |

CARBIDE TIPPED CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE

75 mm  
CUTTING  
CAPACITY

100 mm  
CUTTING  
CAPACITY

CARBIDE  
TIPPED

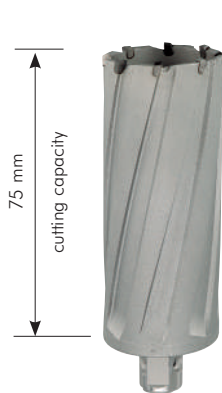


INOX

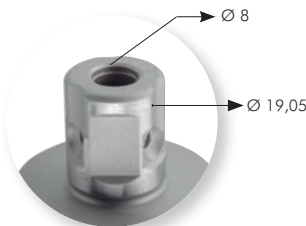
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CAST  
IRON



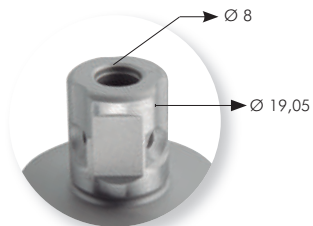
Ref. 750A



WELDON & NITTO  
UNIVERSAL SHANK



Ref. 1000A



WELDON & NITTO  
UNIVERSAL SHANK

75 mm CAPACITY

|        | Ø<br>mm | €      |
|--------|---------|--------|
| 750A17 | 17      | 172,91 |
| 750A18 | 18      | 208,18 |
| 750A19 | 19      | 208,18 |
| 750A20 | 20      | 208,18 |
| 750A21 | 21      | 208,18 |
| 750A22 | 22      | 222,72 |
| 750A23 | 23      | 222,72 |
| 750A24 | 24      | 222,72 |
| 750A25 | 25      | 222,72 |
| 750A26 | 26      | 222,72 |
| 750A27 | 27      | 222,72 |
| 750A28 | 28      | 222,72 |
| 750A29 | 29      | 222,72 |
| 750A30 | 30      | 222,72 |
| 750A31 | 31      | 246,93 |
| 750A32 | 32      | 246,93 |
| 750A33 | 33      | 246,93 |
| 750A34 | 34      | 246,93 |
| 750A35 | 35      | 246,93 |
| 750A36 | 36      | 283,21 |
| 750A37 | 37      | 283,21 |
| 750A38 | 38      | 283,21 |
| 750A39 | 39      | 283,21 |
| 750A40 | 40      | 283,21 |
| 750A41 | 41      | 331,65 |
| 750A42 | 42      | 331,65 |
| 750A43 | 43      | 331,65 |
| 750A44 | 44      | 331,65 |
| 750A45 | 45      | 331,65 |
| 750A46 | 46      | 367,95 |
| 750A47 | 47      | 367,95 |
| 750A48 | 48      | 367,95 |
| 750A49 | 49      | 367,95 |
| 750A50 | 50      | 367,95 |
| 750A51 | 51      | 406,67 |

Shank 32 mm

|         | Ø<br>mm | €        |
|---------|---------|----------|
| 750A52  | 52      | 406,67   |
| 750A53  | 53      | 406,67   |
| 750A54  | 54      | 406,67   |
| 750A55  | 55      | 406,67   |
| 750A56  | 56      | 459,93   |
| 750A57  | 57      | 459,93   |
| 750A58  | 58      | 459,93   |
| 750A59  | 59      | 459,93   |
| 750A60  | 60      | 459,93   |
| 750A61  | 61      | 532,55   |
| 750A62  | 62      | 532,55   |
| 750A63  | 63      | 532,55   |
| 750A64  | 64      | 532,55   |
| 750A65  | 65      | 532,55   |
| 750A66  | 66      | 532,55   |
| 750A67  | 67      | 532,55   |
| 750A68  | 68      | 532,55   |
| 750A69  | 69      | 532,55   |
| 750A70  | 70      | 532,55   |
| 750A75  | 75      | 560,24   |
| 750A80  | 80      | 591,98   |
| 750A85  | 85      | 642,22   |
| 750A90  | 90      | 705,31   |
| 750A95  | 95      | 736,67   |
| 750A100 | 100     | 805,80   |
| 750A105 | 105     | 1.108,02 |
| 750A110 | 110     | 1.108,02 |
| 750A115 | 115     | 1.429,13 |
| 750A120 | 120     | 1.429,13 |
| 750A125 | 125     | 1.838,64 |
| 750A130 | 130     | 1.622,33 |
| 750A135 | 135     | 2.005,67 |
| 750A140 | 140     | 2.005,67 |
| 750A145 | 145     | 2.539,00 |
| 750A150 | 150     | 2.539,00 |

100 mm CUTTING CAPACITY

|         | Ø<br>mm | €      |
|---------|---------|--------|
| 1000A25 | 25      | 256,13 |
| 1000A26 | 26      | 256,13 |
| 1000A27 | 27      | 256,13 |
| 1000A28 | 28      | 256,13 |
| 1000A29 | 29      | 256,13 |
| 1000A30 | 30      | 256,13 |
| 1000A31 | 31      | 283,97 |
| 1000A32 | 32      | 283,97 |
| 1000A33 | 33      | 283,97 |
| 1000A34 | 34      | 283,97 |
| 1000A35 | 35      | 293,36 |
| 1000A36 | 36      | 325,69 |
| 1000A37 | 37      | 325,69 |
| 1000A38 | 38      | 325,69 |
| 1000A39 | 39      | 325,69 |
| 1000A40 | 40      | 345,00 |
| 1000A41 | 41      | 381,40 |
| 1000A42 | 42      | 381,40 |
| 1000A43 | 43      | 419,54 |
| 1000A44 | 44      | 419,54 |
| 1000A45 | 45      | 419,54 |
| 1000A46 | 46      | 465,47 |
| 1000A47 | 47      | 465,47 |
| 1000A48 | 48      | 465,47 |
| 1000A49 | 49      | 465,47 |
| 1000A50 | 50      | 485,25 |
| 1000A51 | 51      | 514,45 |
| 1000A52 | 52      | 514,45 |
| 1000A53 | 53      | 514,45 |
| 1000A54 | 54      | 514,45 |
| 1000A55 | 55      | 514,45 |

Shank 32 mm

|          | Ø<br>mm | €        |
|----------|---------|----------|
| 1000A56  | 56      | 581,81   |
| 1000A57  | 57      | 581,81   |
| 1000A58  | 58      | 581,81   |
| 1000A59  | 59      | 581,81   |
| 1000A60  | 60      | 581,81   |
| 1000A61  | 61      | 673,68   |
| 1000A62  | 62      | 673,68   |
| 1000A63  | 63      | 673,68   |
| 1000A64  | 64      | 673,68   |
| 1000A65  | 65      | 673,68   |
| 1000A66  | 66      | 673,68   |
| 1000A67  | 67      | 612,44   |
| 1000A68  | 68      | 612,44   |
| 1000A69  | 69      | 612,44   |
| 1000A70  | 70      | 612,44   |
| 1000A75  | 75      | 672,33   |
| 1000A80  | 80      | 716,67   |
| 1000A85  | 85      | 811,00   |
| 1000A90  | 90      | 850,00   |
| 1000A95  | 95      | 889,00   |
| 1000A100 | 100     | 939,00   |
| 1000A105 | 105     | 1.322,33 |
| 1000A110 | 110     | 1.322,33 |
| 1000A115 | 115     | 1.766,67 |
| 1000A120 | 120     | 1.766,67 |
| 1000A125 | 125     | 2.265,00 |
| 1000A130 | 130     | 2.265,00 |
| 1000A135 | 135     | 2.833,33 |
| 1000A140 | 140     | 2.833,33 |
| 1000A145 | 145     | 3.805,67 |
| 1000A150 | 150     | 3.805,67 |

PILOT PINS FOR CARBIDE TIPPED CUTTERS



|           | DESCRIPTION                 | Ø x L<br>mm | €     |
|-----------|-----------------------------|-------------|-------|
| P750AA    | 750A Ø 17 - 70 mm cutters   | Ø8x140      | 27,73 |
| P750AA-1  | 750A Ø 75 - 150 mm cutters  | Ø8x160      | 32,56 |
| P1000AA   | 1000A Ø 25 - 70 mm cutters  | Ø8x175      | 36,12 |
| P1000AA-1 | 1000A Ø 75 - 150 mm cutters | Ø8x190      | 42,34 |



## ANNULAR CUTTER FOR ELECTROMAGNETIC DRILLING MACHINE WITH DOUBLE WELDON Ø 19,05 mm SPECIAL FOR RAILROADS, HARDOX ...



- Solid carbide teeth.
- For extremely hard materials.
- Possibility to work in lathes and drilling and milling machines.
- Possibility to work with Quick change morse taper



Holesaws

Pink

Ref. MB250AT  
Ref. MB500AT

**HSSCo**  
**8%**

**TiAIN**

**HARDOX**  
**450**

**HARDOX**  
**500**

Ref. MB350ST  
Ref. MB500ST

**CARBIDE**  
**TIPPED**

**HARDOX**  
**450**

**HARDOX**  
**500**

**HARDOX**  
**600**

**25 mm**  
**CUTTING**  
**CAPACITY**



Ref. MB250AT

**25 mm CAPACITY**

**50 mm**  
**CUTTING**  
**CAPACITY**



Ref. MB500AT

**50 mm CAPACITY**

**35 mm**  
**CUTTING**  
**CAPACITY**

35 mm  
cutting capacity



Ref. MB350ST

**35 mm CAPACITY**

**50 mm**  
**CUTTING**  
**CAPACITY**

50 mm  
cutting capacity



Ref. MB500ST

**50 mm CAPACITY**

| MB250AT   |      |        |
|-----------|------|--------|
|           | Ø mm | €      |
| MB250AT16 | 16   | 123,25 |
| MB250AT18 | 18   | 126,79 |
| MB250AT20 | 20   | 130,32 |
| MB250AT22 | 22   | 136,14 |
| MB250AT24 | 24   | 141,02 |
| MB250AT26 | 26   | 145,55 |
| MB250AT28 | 28   | 150,23 |
| MB250AT30 | 30   | 154,97 |
| MB250AT32 | 32   | 181,96 |

| MB500AT   |      |        |
|-----------|------|--------|
|           | Ø mm | €      |
| MB500AT16 | 16   | 153,77 |
| MB500AT18 | 18   | 161,99 |
| MB500AT20 | 20   | 170,20 |
| MB500AT22 | 22   | 177,29 |
| MB500AT24 | 24   | 183,09 |
| MB500AT26 | 26   | 188,96 |
| MB500AT28 | 28   | 198,39 |
| MB500AT30 | 30   | 210,09 |
| MB500AT32 | 32   | 231,79 |

| MB350ST   |      |        |
|-----------|------|--------|
|           | Ø mm | €      |
| MB350ST18 | 18   | 139,28 |
| MB350ST19 | 19   | 139,28 |
| MB350ST20 | 20   | 139,28 |
| MB350ST21 | 21   | 140,25 |
| MB350ST22 | 22   | 149,46 |
| MB350ST23 | 23   | 149,46 |
| MB350ST24 | 24   | 149,46 |
| MB350ST25 | 25   | 149,46 |
| MB350ST26 | 26   | 149,46 |
| MB350ST27 | 27   | 149,46 |
| MB350ST28 | 28   | 149,46 |
| MB350ST29 | 29   | 149,46 |
| MB350ST30 | 30   | 149,46 |
| MB350ST31 | 31   | 149,46 |
| MB350ST32 | 32   | 166,46 |
| MB350ST33 | 33   | 166,46 |
| MB350ST34 | 34   | 166,46 |
| MB350ST35 | 35   | 166,46 |
| MB350ST36 | 36   | 166,46 |

| MB500ST   |      |        |
|-----------|------|--------|
|           | Ø mm | €      |
| MB500ST37 | 37   | 195,36 |
| MB500ST38 | 38   | 195,36 |
| MB500ST39 | 39   | 195,36 |
| MB500ST40 | 40   | 195,36 |
| MB500ST41 | 41   | 210,22 |
| MB500ST42 | 42   | 210,22 |
| MB500ST43 | 43   | 210,22 |
| MB500ST44 | 44   | 210,22 |
| MB500ST45 | 45   | 210,22 |
| MB500ST46 | 46   | 245,36 |
| MB500ST47 | 47   | 245,36 |
| MB500ST48 | 48   | 245,36 |
| MB500ST49 | 49   | 245,36 |
| MB500ST50 | 50   | 245,36 |

**Ø 6,35 mm PILOT PINS Ref. MB250AT  
and Ref. MB500AT ANNULAR CUTTERS**



**PILOT PINS  
Ref. MB350ST & MB500ST ANNULAR CUTTERS**



|        | DESCRIPTION                     | L mm | €     |
|--------|---------------------------------|------|-------|
| P250CA | Ref. MB250AT Ø 16-32 mm cutters | 71   | 17,01 |
| P500CA | Ref. MB500AT Ø 16-32 mm cutters | 92   | 23,93 |

|          | DESCRIPTION            | Ø x L mm | €     |
|----------|------------------------|----------|-------|
| P350AA-1 | Ref. MB350ST Ø18-36 mm | Ø8x91    | 17,94 |
| P500AA   | Ref. MB500ST Ø37-50 mm | Ø8x112   | 20,13 |

DRILLS, TAPS AND ACCESSORIES FOR ELECTROMAGNETIC DRILLING MACHINE

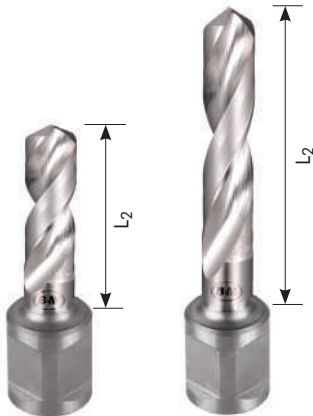
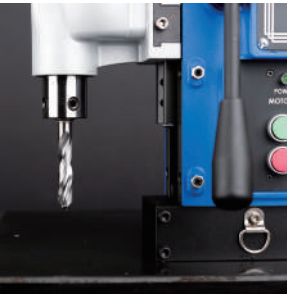
Holesaws

Pink

HSS

DRILL BIT

Ref. BMG

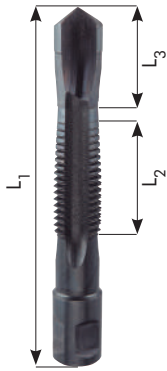


|         | BMG     |                      |       |                      | BMGL  |
|---------|---------|----------------------|-------|----------------------|-------|
|         | Ø<br>mm | L <sub>2</sub><br>mm | €     | L <sub>2</sub><br>mm | €     |
| BMG0600 | 6,00    | 25                   | 34,79 | 50                   | 43,48 |
| BMG0675 | 6,75    | 25                   | 34,79 | 50                   |       |
| BMG0700 | 7,00    | 25                   | 34,79 | 50                   | 43,48 |
| BMG0800 | 8,00    | 25                   | 34,79 | 50                   | 43,48 |
| BMG0850 | 8,50    | 25                   | 34,79 | 50                   |       |
| BMG0900 | 9,00    | 25                   | 34,79 | 50                   | 43,48 |
| BMG1000 | 10,00   | 25                   | 36,65 | 50                   | 45,81 |
| BMG1020 | 10,20   | 25                   | 36,65 | 50                   |       |
| BMG1100 | 11,00   | 25                   | 36,65 | 50                   | 45,81 |
| BMG1200 | 12,00   | 25                   | 36,65 | 50                   | 45,81 |
| BMG1300 | 13,00   | 25                   | 39,24 | 50                   | 52,19 |
| BMG1400 | 14,00   | 25                   | 39,99 | 50                   | 53,18 |
| BMG1500 | 15,00   | 25                   | 40,36 | 50                   | 54,49 |
| BMG1600 | 16,00   | 25                   | 49,80 | 50                   | 62,25 |

HSS

DRILL TAP

Ref. MBE



|              |       |                                                     |            | MBE    |
|--------------|-------|-----------------------------------------------------|------------|--------|
|              | Ø     | L <sub>1</sub> x L <sub>2</sub> x L <sub>3</sub> mm | THREAD     | €      |
| MBE8M08X1,25 | 6,75  | 110x12,5x15                                         | M 8 x 1,25 | 79,10  |
| MBE8M10X1,50 | 8,50  | 113x15,0x15                                         | M10 x 1,50 | 79,10  |
| MBE8M12X1,75 | 10,20 | 117x18,0x16                                         | M12 x 1,75 | 79,10  |
| MBE8M14X2,00 | 12,00 | 117x20,0x16                                         | M14 x 2,00 | 79,10  |
| MBE8M16X2,00 | 14,00 | 117x20,0x16                                         | M16 x 2,00 | 79,10  |
| MBE8M18X2,50 | 15,50 | 130x25,0x16                                         | M18 x 2,50 | 79,10  |
| MBE8M20X2,50 | 17,50 | 135x25,0x16                                         | M20 x 2,50 | 87,97  |
| MBE8M22X2,50 | 19,50 | 135x25,0x17                                         | M22 x 2,50 | 94,04  |
| MBE8M24X3,00 | 21,00 | 148x30,0x17                                         | M24 x 3,00 | 125,58 |
| MBE8M27X3,00 | 24,00 | 155x30,0x18                                         | M27 x 3,00 | 160,44 |
| MBE8M30X3,50 | 26,50 | 169x63,0x19                                         | M30 x 3,50 | 182,56 |

HSS

COUNTERSINK

Ref. ABE

90°



|       |      | ABE    |
|-------|------|--------|
|       | Ø mm | €      |
| ABE25 | 25   | 98,55  |
| ABE30 | 30   | 101,09 |
| ABE40 | 40   | 114,83 |
| ABE50 | 50   | 177,83 |
| ABE55 | 55   | 194,96 |
| ABE63 | 63   | 248,46 |



## DRILLS, TAPS AND ACCESSORIES FOR ELECTROMAGNETIC DRILLING MACHINE

HSS

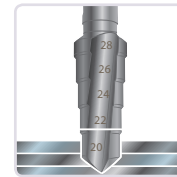
### COUNTERSINK

Ref. MBE

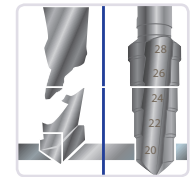


Ref. MBE20-28  
Type A

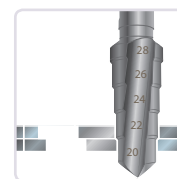
Ref. MBE22-26  
Type B



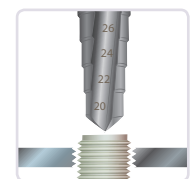
Several dimensions  
in one tool



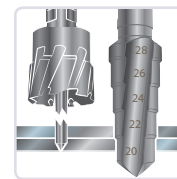
More rigid than hole saws



Able to drill two separate pieces. Can align two non-coaxial holes.



Able to enlarge holes.



Can drill through different sheets without breaking problem as in the hole-saws.



No need pin guide.

| MBE      |                        |          |   |          |        |
|----------|------------------------|----------|---|----------|--------|
|          | Ø Z mm<br>min - max    | Geometry | Z | Lz<br>mm | €      |
| MBE08-16 | 8 - 10 - 12 - 14 - 16  | Type A   | 5 | 12       | 43,70  |
| MBE10-18 | 10 - 12 - 14 - 16 - 18 | Type A   | 5 | 12       | 48,37  |
| MBE20-28 | 20 - 22 - 24 - 26 - 28 | Type A   | 5 | 12       | 68,94  |
| MBE30-38 | 30 - 32 - 34 - 36 - 38 | Type B   | 5 | 12       | 107,32 |
| MBE40-48 | 40 - 42 - 44 - 46 - 48 | Type B   | 5 | 12       | 153,73 |
| MBE10-14 | 10 - 12 - 14           | Type A   | 3 | 25       | 37,15  |
| MBE16-20 | 16 - 18 - 20           | Type A   | 3 | 25       | 53,01  |
| MBE22-26 | 22 - 24 - 26           | Type B   | 3 | 25       | 63,63  |
| MBE28-32 | 28 - 30 - 32           | Type B   | 3 | 25       | 86,15  |
| MBE34-38 | 34 - 36 - 38           | Type B   | 3 | 25       | 107,35 |
| MBE40-44 | 40 - 42 - 44           | Type B   | 3 | 25       | 132,51 |
| MBE46-50 | 46 - 48 - 50           | Type B   | 3 | 25       | 159,04 |

Type A geometry: With tip and centre cutting.

Type B Geometry: Without tip and without centre cutting. Only enlarges holes already drilled.

HSS

Ref. MBE



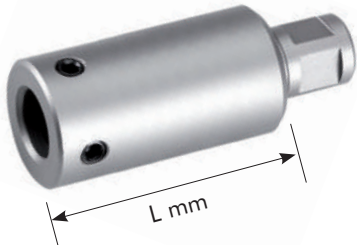
Ref. MBEHEX1/4

| MBE       |                                |       |
|-----------|--------------------------------|-------|
|           | DESCRIPTION                    | €     |
| MBEHEX1/4 | DOUBLE WELDON 19,05 a 1/4" HEX | 16,36 |

EXTENSIONS FOR ELECTROMAGNETIC DRILLING MACHINES

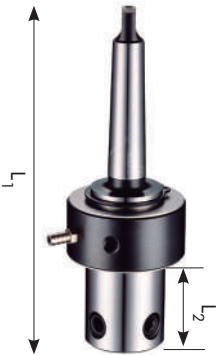
SHANK: 19,05 mm DOUBLE WELDON

EXIT: 19,05 mm WELDON



| ACRWX    |      |        |
|----------|------|--------|
|          | L mm | €      |
| ACRWX75  | 75   | 33,79  |
| ACRWX100 | 100  | 75,00  |
| ACRWX150 | 150  | 99,00  |
| ACRWX200 | 200  | 134,00 |
| ACRWX250 | 250  | 167,00 |

EXTENSIONS FOR ELECTROMAGNETIC DRILLING MACHINES



Ref.CMN°2



Ref.CMN°2SR



Ref.CMN°2CR



Ref.CMN°3



Ref.CMN°3SR



Ref.CMN°3x32



Ref.CMN°4x32



|          | L2 mm | L1 mm | CM | Exit               | Cooling | €      |
|----------|-------|-------|----|--------------------|---------|--------|
| CMN°2    | 43    | 158   | 2  | 19,05              | Yes     | 144,65 |
| CMN°2SR  | 43    | 158   | 2  | 19,05              | No      | 94,02  |
| CMN°2CR  | 43    | 158   | 2  | 19,05 Quick Change | Yes     | 245,44 |
| CMN°3    | 43    | 177   | 3  | 19,05              | Yes     | 144,65 |
| CMN°3SR  | 43    | 177   | 3  | 19,05              | No      | 94,02  |
| CMN°3CR  | 43    | 177   | 3  | 19,05 Quick Change | Yes     | 245,44 |
| CMN°4    | 80    | 250   | 4  | 19,05              | Yes     | 186,60 |
| CMN°5    | 80    | 270   | 5  | 19,05              | Yes     | 203,55 |
| CMN°3x32 | 116   | 229   | 3  | 32,00              | Yes     | 213,33 |
| CMN°4x32 | 116   | 250   | 4  | 32,00              | Yes     | 266,55 |

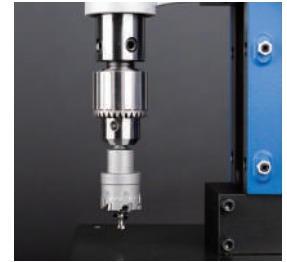


## CONVERTERS FOR OTHER SHANK TYPES



ACR18W

**SHANK: 18 mm FEIN**  
**EXIT: 19,05 mm DOUBLE WELDON**



ACRWB16

**SHANK: NITTO**  
**EXIT: 19,05 mm DOUBLE WELDON**



ACR18W  
33,79 €

**SHANK: 19,05 mm DOUBLE WELDON**  
**EXIT: M18 X 6 P1,5 THREAD**



ACRNITTO  
33,79 €

**SHANK: 19,05 mm DOUBLE WELDON**  
**EXIT: B16**



ACRWM18X6P1,5  
33,79 €

**SHANK: NITTO**  
**EXIT: M18 X 6 P1,5 THREAD**



ACRWB16  
33,79 €

**SHANK: 18 mm FEIN**  
**EXIT: B16**



ACRNM18X6P1,5  
33,79 €

**SHANK: 19,05 mm DOUBLE WELDON**  
**EXIT: 1/2 X 20 UNF**



ACR18B16  
33,79 €

**SHANK: NITTO / 19,05 mm DOUBLE WELDON**  
**EXIT: B16**



ACRW1/2X20  
33,79 €

**SHANK: NITTO / 19,05 mm DOUBLE WELDON**  
**EXIT: 1/2 X 20 UNF**



ACRNB16  
33,79 €

**SHANK: 19,05 mm DOUBLE WELDON**  
**EXIT: 32 mm DOUBLE WELDON**



ACRN1/2X20  
33,79 €



ACRWX32  
33,79 €

ANNULAR CUTTERS FOR ELECTROMAGNETIC DRILLING MACHINE CASES AND METHACRYLATE DISPLAYS

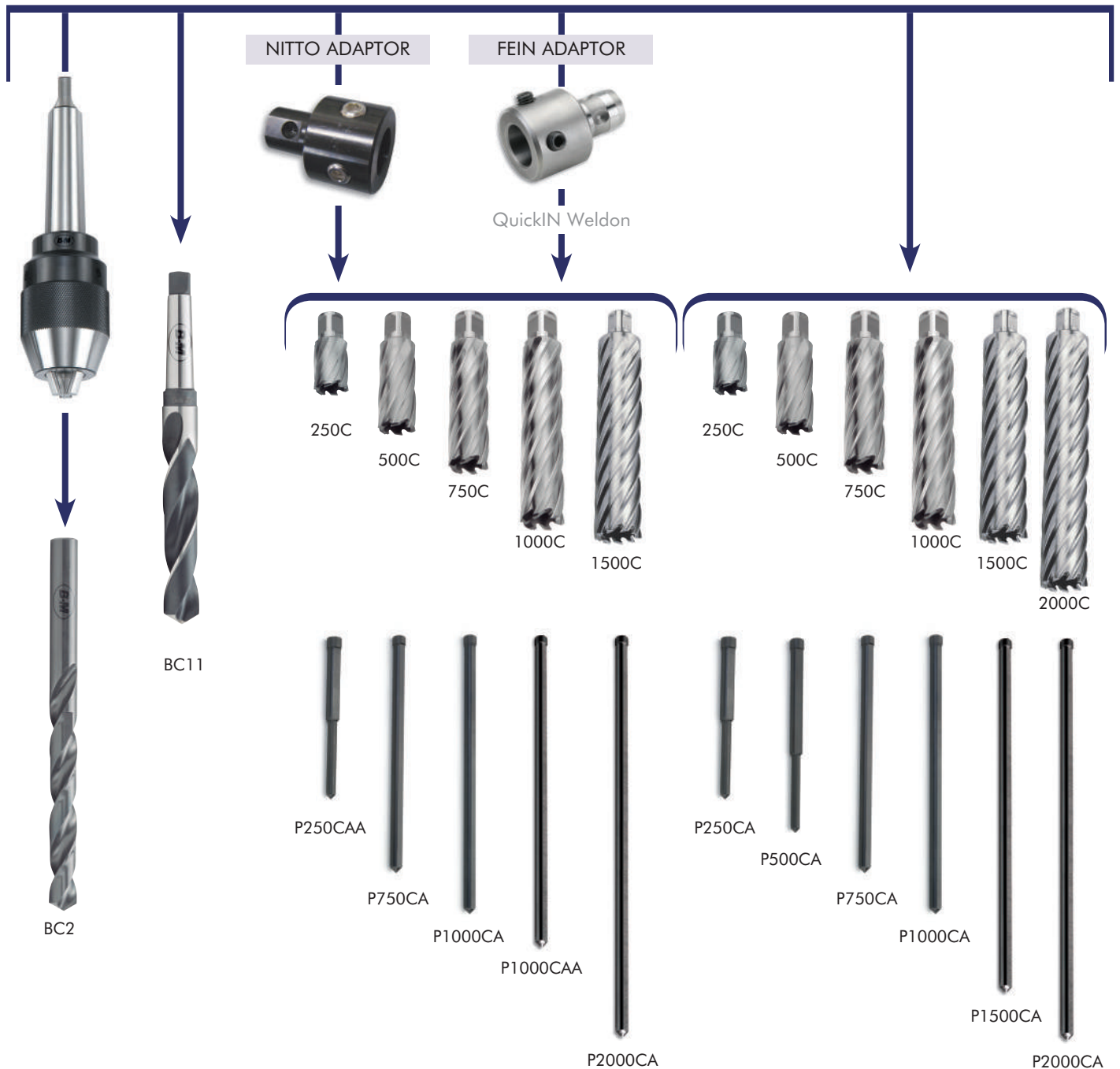
|            | Content:                                                              | €      |
|------------|-----------------------------------------------------------------------|--------|
| EFB250R1   | 6 Ref. 250R cutters: Ø 12 - 14 - 16 - 18 - 20 - 22 mm<br>2 Pilot pins | 329,12 |
| EFB250R2   | 5 Ref. 250R cutters: Ø 24 - 25 - 26 - 30 - 32 mm<br>2 Pilot pins      | 400,69 |
| EFB250C1   | 6 Ref. 250C cutters: Ø 12 - 14 - 16 - 18 - 20 - 22 mm<br>2 Pilot pins | 429,09 |
| EFB250C2   | 5 Ref. 250C cutters: Ø 24 - 25 - 26 - 30 - 32 mm<br>2 Pilot pins      | 524,59 |
| 250RM14-24 | 6 Ref. 250R cutters: Ø 14 - 16 - 18 - 20 - 22 - 24 mm<br>1 Pilot pin  | 317,97 |
| EFB500R1   | 6 Ref. 500R cutters: Ø 12 - 14 - 16 - 18 - 20 - 22 mm<br>2 Pilot pins | 475,38 |
| EFB500C1   | 6 Ref. 500C cutters: Ø 12 - 14 - 16 - 18 - 20 - 22 mm<br>2 Pilot pins | 636,29 |



|                             |                                                                                                                                    |            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------|
| Content: 20 Annular cutters |                                                                                                                                    | CFBE01     |
| <b>HSS</b>                  | Ref. 250R: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm<br>Ref. 500R: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm |            |
|                             |                                                                                                                                    | 1.500,27 € |
| Content: 20 Annular cutters |                                                                                                                                    | CFBE02     |
| <b>HSSCo</b>                | Ref. 250C: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm<br>Ref. 500C: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm |            |
|                             |                                                                                                                                    | 2.103,92 € |
| Content: 18 Annular cutters |                                                                                                                                    | CFBE03     |
| <b>SOLID CARBIDE</b>        | Ref. 350A: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm<br>Ref. 500A: Ø 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm           |            |
|                             |                                                                                                                                    | 4.074,90 € |



## EXPLICATIVE ANNULAR CUTTERS ACCESSORIES EASY USING DIAGRAM



## CUTTING CONDITIONS FOR ANNULAR CUTTERS

| mm/TURN                     |   |   |   |   |   |   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 250R - 500R - 1500C - 2000C | <b>0,053</b>                                                                                                                                                        | -                                                                                                                                                                   | <b>0,05</b>                                                                                                                                                         | <b>0,075</b>                                                                                                                                                           | <b>0,12</b>                                                                                                                                                             | -                                                                                                                                                                       |
| 250C - 500C - 750C - 1000C  | <b>0,063</b>                                                                                                                                                        | -                                                                                                                                                                   | <b>0,055</b>                                                                                                                                                        | <b>0,085</b>                                                                                                                                                           | <b>0,15</b>                                                                                                                                                             | -                                                                                                                                                                       |
| 350A - 500A                 | <b>0,10</b>                                                                                                                                                         | <b>0,075</b>                                                                                                                                                        | <b>0,10</b>                                                                                                                                                         | <b>0,15</b>                                                                                                                                                            | <b>0,22</b>                                                                                                                                                             | <b>0,07</b>                                                                                                                                                             |

**R.P.M. SELECTION FOR HOLESAWS: 250R - 500R - 250C - 500C - 750C - 1000C**

| Vc (m/min..) | 100 | 3183 | 2122 | 1952 | 1273 | 1061 | 909 | 796 | 637 | 531 | 455 | 398 | 354 | 318 |
|--------------|-----|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 95  | 3024 | 2016 | 1512 | 1512 | 1008 | 864 | 756 | 605 | 504 | 432 | 378 | 336 | 302 |
|              | 90  | 2865 | 1910 | 1432 | 1432 | 955  | 819 | 716 | 573 | 477 | 409 | 358 | 318 | 286 |
|              | 85  | 2706 | 1804 | 1353 | 1353 | 902  | 773 | 676 | 541 | 451 | 387 | 338 | 301 | 271 |
|              | 80  | 2547 | 1698 | 1273 | 1276 | 849  | 728 | 637 | 509 | 424 | 364 | 318 | 283 | 255 |
|              | 75  | 2387 | 1592 | 1194 | 1194 | 796  | 682 | 597 | 477 | 398 | 341 | 298 | 265 | 239 |
|              | 70  | 2228 | 1485 | 1114 | 1114 | 743  | 637 | 557 | 446 | 371 | 318 | 279 | 248 | 223 |
|              | 65  | 2069 | 1379 | 1035 | 1035 | 690  | 591 | 517 | 414 | 345 | 296 | 259 | 230 | 207 |
|              | 60  | 1910 | 1273 | 955  | 922  | 637  | 546 | 477 | 382 | 318 | 273 | 239 | 212 | 191 |
|              | 55  | 1751 | 1167 | 875  | 875  | 584  | 500 | 438 | 350 | 292 | 250 | 219 | 195 | 175 |
|              | 50  | 1592 | 1061 | 796  | 796  | 531  | 455 | 398 | 318 | 265 | 227 | 199 | 177 | 159 |
|              | 45  | 1432 | 955  | 716  | 716  | 477  | 409 | 358 | 286 | 239 | 205 | 179 | 159 | 143 |
|              | 40  | 1273 | 849  | 637  | 637  | 424  | 364 | 318 | 255 | 212 | 192 | 159 | 141 | 127 |
|              | 35  | 1114 | 743  | 557  | 557  | 371  | 318 | 279 | 223 | 186 | 159 | 139 | 124 | 111 |
|              | 30  | 955  | 637  | 477  | 477  | 318  | 273 | 239 | 191 | 159 | 136 | 119 | 106 | 95  |
|              | 25  | 796  | 531  | 398  | 398  | 265  | 227 | 199 | 159 | 133 | 114 | 99  | 88  | 80  |
|              | 20  | 637  | 424  | 318  | 318  | 212  | 182 | 159 | 127 | 106 | 91  | 80  | 71  | 64  |
|              | 15  | 477  | 318  | 239  | 239  | 159  | 136 | 119 | 95  | 80  | 68  | 60  | 53  | 48  |
|              | 10  | 318  | 212  | 159  | 159  | 106  | 91  | 80  | 64  | 53  | 45  | 40  | 35  | 32  |
|              | 10  | 15   | 20   | 25   | 30   | 35   | 40  | 50  | 60  | 70  | 80  | 90  | 100 |     |

DIAMETER SELECTION (Ø mm)

### R.P.M. SELECTION FOR HOLESAWS: 350A - 500A

| Vc (m/min..) | 100 | 3183 | 2122 | 1952 | 1273 | 1061 | 909 | 796 | 637 | 531 | 455 | 398 | 354 | 318 |
|--------------|-----|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 95  | 3024 | 2016 | 1512 | 1512 | 1008 | 864 | 756 | 605 | 504 | 432 | 378 | 336 | 302 |
|              | 90  | 2865 | 1910 | 1432 | 1432 | 955  | 819 | 716 | 573 | 477 | 409 | 358 | 318 | 286 |
|              | 85  | 2706 | 1804 | 1353 | 1353 | 902  | 773 | 676 | 541 | 451 | 387 | 338 | 301 | 271 |
|              | 80  | 2547 | 1698 | 1273 | 1276 | 849  | 728 | 637 | 509 | 424 | 364 | 318 | 283 | 255 |
|              | 75  | 2387 | 1592 | 1194 | 1194 | 796  | 682 | 597 | 477 | 398 | 341 | 298 | 265 | 239 |
|              | 70  | 2228 | 1485 | 1114 | 1114 | 743  | 637 | 557 | 446 | 371 | 318 | 279 | 248 | 223 |
|              | 65  | 2069 | 1379 | 1035 | 1035 | 690  | 591 | 517 | 414 | 345 | 296 | 259 | 230 | 207 |
|              | 60  | 1910 | 1273 | 955  | 922  | 637  | 546 | 477 | 382 | 318 | 273 | 239 | 212 | 191 |
|              | 55  | 1751 | 1167 | 875  | 875  | 584  | 500 | 438 | 350 | 292 | 250 | 219 | 195 | 175 |
|              | 50  | 1592 | 1061 | 796  | 796  | 531  | 455 | 398 | 318 | 265 | 227 | 199 | 177 | 159 |
|              | 45  | 1432 | 955  | 716  | 716  | 477  | 409 | 658 | 286 | 239 | 205 | 179 | 159 | 143 |
|              | 40  | 1273 | 849  | 637  | 637  | 424  | 364 | 618 | 255 | 212 | 192 | 159 | 141 | 127 |
|              | 35  | 1114 | 743  | 557  | 557  | 371  | 318 | 279 | 223 | 186 | 159 | 139 | 124 | 111 |
|              | 30  | 955  | 637  | 477  | 477  | 318  | 273 | 239 | 191 | 159 | 136 | 119 | 106 | 95  |
|              | 25  | 796  | 531  | 398  | 398  | 265  | 227 | 199 | 159 | 133 | 114 | 99  | 88  | 80  |
| 20           | 637 | 424  | 318  | 318  | 212  | 182  | 159 | 127 | 106 | 91  | 80  | 71  | 64  |     |
| 15           | 477 | 318  | 239  | 239  | 159  | 136  | 119 | 95  | 80  | 68  | 60  | 53  | 48  |     |
| 10           | 318 | 212  | 159  | 159  | 106  | 91   | 80  | 64  | 53  | 45  | 40  | 35  | 32  |     |
|              | 10  | 15   | 20   | 25   | 30   | 35   | 40  | 50  | 60  | 70  | 80  | 90  | 100 |     |

DIAMETER SELECTION (Ø mm)