













**NEW PRODUCTS**  
EMO 2017








## PU-HPU universal high performance drills for ISO **P M K N S** application

| ITEM No. |   | TYPE | RANGE |
|----------|---|------|-------|
| 353PU    |  | 3xD  | 3-20  |
| 353HPU   |  | 5xD  | 3-20  |
| 355PU    |  | 3xD  | 3-20  |
| 355HPU   |  | 5xD  | 3-20  |

## SUH MINI high performance miniature short, long and extra long (5xD-30xD)

| ITEM No.     |   | TYPE | RANGE |
|--------------|---|------|-------|
| 355SUH MINI  |    | 5xD  | 1-3   |
| 358SUH MINI  |    | 8xD  | 1-3   |
| 3512SUH MINI |    | 12xD | 1-3   |
| 3520SUH MINI |    | 20xD | 1-3   |
| 3525SUH MINI |   | 25xD | 1-3   |
| 3530SUH MINI |  | 30xD | 1-3   |

## HL high performance long and extra long (12xD-30xD)

| ITEM No. |   | TYPE | RANGE |
|----------|---|------|-------|
| 3512HL   |  | 12xD | 1-10  |
| 3515HL   |  | 15xD | 1-10  |
| 3520HL   |  | 20xD | 1-10  |
| 3525HL   |  | 25xD | 1-9.5 |
| 3530HL   |  | 30xD | 1-8   |

**G2 and MDTA for general purpose**

| ITEM No. |  | TYPE                                | RANGE |
|----------|--|-------------------------------------|-------|
| G2CL4R   |  | 4 FLUTES, CORNER RADIUS, LONG       | 2-12  |
| MDTAUPR  |  | 3-4 FLUTES, UNEQUAL PITCH, ROUGHING | 6-20  |

**HF Variable Helix and Unequal Pitch for universal application**

| ITEM No. |  | TYPE   | RANGE |
|----------|--|--|-------|
| HF342    |  | 4 FLUTES, REDUCED NECK, EXTRA SHORT, CORNER RADIUS                       | 3-12  |
| HF542    |  | 4 FLUTES, REDUCED NECK, LONG REACH, CORNER RADIUS                        | 6-20  |
| HF942    |  | 4 FLUTES, LONG, TROCHOIDAL APPLICATION, CORNER RADIUS                    | 4-20  |
| HF943    |  | 4 FLUTES, WELDON SHANK, LONG, TROCHOIDAL APPLICATION, CORNER RADIUS      | 4-20  |
| HF642    |  | 5 FLUTES, TROCHOIDAL APPLICATION, CORNER RADIUS                          | 4-20  |
| HF643    |  | 5 FLUTES, WELDON SHANK, TROCHOIDAL APPLICATION, CORNER RADIUS            | 4-20  |
| HF742    |  | 5 FLUTES, LONG, TROCHOIDAL APPLICATION, CORNER RADIUS                    | 6-20  |
| HF743    |  | 5 FLUTES, WELDON SHANK, LONG, TROCHOIDAL APPLICATION, CORNER RADIUS      | 6-20  |
| HF861    |  | 4 FLUTES, WELDON SHANK, CHAMFER+RADIUS, SMOOTH CUT FOR LOW CUTTING FORCE | 1-20  |

**HF Unequal Pitch for Aluminium machining**

| ITEM No. |  | TYPE                          | RANGE |
|----------|--|-------------------------------|-------|
| HFAL3    |  | 3 FLUTES, CORNER RADIUS       | 2-20  |
| HFA53    |  | 3 FLUTES, CORNER RADIUS, LONG | 3-20  |

**MEX ultra-fine micrograin carbide for steel and hardened steel 30-55HRC**

| ITEM No. |  | TYPE  | RANGE   |
|----------|--|---|---------|
| MEXM2SC  |  | 2 FLUTES, MINIATURE, SHORT CUTTING LENGTH           | 0.2-0.9 |
| MEXLN2R  |  | 2 FLUTES, EXTENDED AND REDUCED NECK, CORNER RADIUS  | 0.3-4   |
| MEXCS4R  |  | 4 FLUTES, CORNER RADIUS                             | 1-20    |
| MEXMB2SC |  | 2 FLUTES BALL NOSE, MINIATURE, SHORT CUTTING LENGTH | 0.2-0.8 |

**UH nano micrograin carbide for hardened steel <70HRC**

| ITEM No. |  | TYPE  | RANGE   |
|----------|--|---|---------|
| UHM206   |  | 2 FLUTES, MINIATURE, 6mm SHANK Ø                                  | 0.3-2   |
| UHF4LN   |  | 4 FLUTES, UNEQUAL PITCH, EXTENDED AND REDUCED NECK, CORNER RADIUS | 1-4     |
| UH410    |  | 4 FLUTES, CORNER RADIUS   | 1-20    |
| UH413    |  | 4 FLUTES, REDUCED NECK, CORNER RADIUS, LONG                       | 6-16    |
| UHMB206  |  | 2 FLUTES BALL NOSE, MINIATURE, 6mm SHANK Ø                        | 0.4-0.8 |

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