

# **EUROMAC**



## **NOUVEAUTES 2025**

OUTILS COUPANTS CARBURE, HSS ET HSS-E

# ECHO

## FRAISES CARBURE MONOBLOC 4 LEVRES ANTIVIBRATOIRES DOUBLE HELICE 30/33°

Bout droit - Courtes - 2 dents au centre

Revêtement pour aciers trempés et fontes, avec ou sans lubrification



*Solid carbide short endmills - Square nose - Double helix 30/33° - 4 flutes - 2 flutes until the center - Coated*



*Fresas rectas cortas MD integral - Doble hélice 30/33° - 4 labios - 2 labios al centro - Con recubrimiento*



*Frese dritte corte MD integrale - Doppia elica 30/33° - 4 taglienti - 2 taglienti al centro - Rivestite*



*VHM kurze Schaftfräser - Doppelhelix 30/33° - 4 Schneiden - 2 Zähne zur Mitte - Beschichtet*

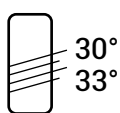


ECHO



MADE IN FRANCE

SOLID  
WC



MACH 11+

| Ø  | d  | L   | l  | Z |
|----|----|-----|----|---|
| 4  | 4  | 40  | 12 | 4 |
| 5  | 5  | 50  | 14 | 4 |
| 6  | 6  | 57  | 16 | 4 |
| 7  | 7  | 60  | 20 | 4 |
| 8  | 8  | 60  | 20 | 4 |
| 9  | 9  | 60  | 20 | 4 |
| 10 | 10 | 70  | 22 | 4 |
| 11 | 11 | 70  | 22 | 4 |
| 12 | 12 | 83  | 26 | 4 |
| 13 | 13 | 83  | 26 | 4 |
| 14 | 14 | 83  | 26 | 4 |
| 15 | 15 | 92  | 32 | 4 |
| 16 | 16 | 92  | 32 | 4 |
| 18 | 18 | 92  | 32 | 4 |
| 20 | 20 | 100 | 32 | 4 |
| 25 | 25 | 122 | 45 | 4 |

Ex. ref. Ø4 = ECHO-004.000



# NOUVEAUTES 2022 - 2025

New products from 2022 to 2025

## ALESOIRS CARBURE MONOBLOC - Solid carbide reamers

- ALC212** Micro-alésoirs machine hélice à gauche - DIN 212 (1/100) **NEW**  
Solid carbide machine micro-reamers - DIN 212 - Shape B - Scale 1/100 mm ..... Page 164
- ALC710** Alésoirs machine hélice à gauche - Extra courts (1/100) **NEW**  
Machine reamers left hand helix - Extra short length ..... Page 165
- ALC720** Alésoirs machine taille droite - Extra courts (1/100) **NEW**  
Machine reamers straight flutes - Extra short length ..... Page 166
- ALC100** Alésoirs machine taille droite - Extra courts - Lub centrale (1/100) **NEW**  
Machine reamers straight flutes - Extra sort length - Central lubrication ..... Page 167

## ALESOIRS HSS - HSS reamers

- ALE219** Alésoirs HSS expansibles en bout DIN 859 - Forme B **NEW**  
Expandable reamers DIN 859 - Shape B ..... Page 168
- ALE229** Alésoirs HSS expansibles en bout DIN 859 - Forme A **NEW**  
Expandable reamers DIN 859 - Shape A ..... Page 169
- ALH611** Alésoirs machine HSS DIN 311 pour rivets - Hélice 25° **NEW**  
HSS machine reamers for rivet holes DIN 311 - 25° Left hand helix ..... Page 170
- ALH630** Alésoirs machine HSS DIN 2179 conicité 1:50 (2%) - Forme E **NEW**  
HSS taper machine reamers 1:50 (2%) DIN 2179 - 45° Left hand helix ..... Page 171
- ALH738** Alésoirs machine HSS DIN 1895 pour cône morse - Forme D **NEW**  
HSS taper machine reamers for morse taper holes DIN 1895 ..... Page 172
- ALH746** Alésoirs à main HSS DIN 204 pour cône morse - Forme W **NEW**  
HSS taper hand reamers for morse taper holes DIN 204 ..... Page 173

## FRAISES CARBURE MONOBLOC - Solid carbide endmills

- ECHO** Fraises antivibratoires - 4 dents - Droites - Courtes - Revêtues **NEW**  
Antivibration endmills - 4 flutes - Square nose - Short length - Coated ..... Page 162

FOC  
ALC  
ALB-E-H  
FTC  
FRC  
EVC-H  
LRC  
EBC  
COF  
XTRA  
info

**ALC  
212**

## MICRO-ALESOIRS MACHINE CARBURE MONOBLOC DIN 212

Hélice à gauche pour trous débouchants (Forme B)  
Queue cylindrique



Solid carbide machine micro-reamers DIN 212 - Left hand helix for through holes



Micro-escariadores de máquina MD integral DIN 212 - Hélice a izquierda para agujeros pasantes



Micro-alesatori a macchina MD integrale DIN 212 - Spirale sinistra per fori passanti

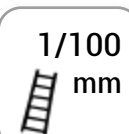


VHM Mikromaschinenreibahlen DIN 212 - Linksspiralgenutet für Durchgangsloch



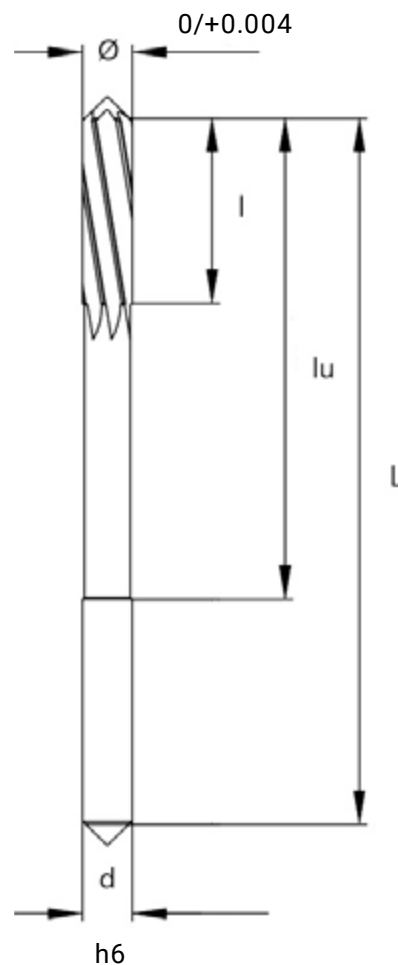
SOLID  
WC

DIN  
212



| $\emptyset$ |  | d | L  | l  | lu | Z |
|-------------|--|---|----|----|----|---|
| 0.90 → 1.06 |  | 3 | 50 | 6  | 22 | 3 |
| 1.07 → 1.50 |  | 3 | 50 | 9  | 22 | 3 |
| 1.51 → 1.70 |  | 3 | 50 | 10 | 22 | 3 |
| 1.71 → 1.90 |  | 3 | 50 | 11 | 22 | 4 |
| 1.91 → 2.25 |  | 3 | 50 | 12 | 22 | 4 |

Ex. ref.  $\emptyset 0.90$  = ALC212-000.900





# ALESOIRS CARBURE MONOBLOC EXTRA COURTS DIN 8089 POUR MACHINES AUTOMATIQUES

Hélice à gauche pour trous débouchants (forme B)  
Queue cylindrique



Solid carbide extra short machine reamers DIN 8089 - Left hand helix for through holes



Escariadores extra cortos MD integral DIN 8089 - Hélice a izquierda para agujeros pasantes



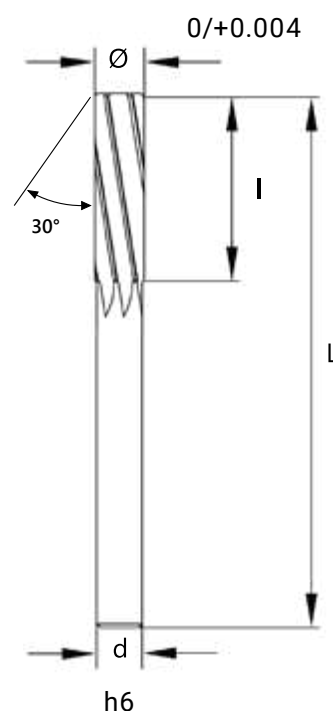
Alesatori extra corti MD integrale DIN 8089 - Spirale sinistra per fori passanti



VHM extra kurze Maschinenreibahlen DIN 8089 - Linksspiralgenutet für Durchgangsloch



| Ø             | + Ø    | d  | L   | I  | Z |
|---------------|--------|----|-----|----|---|
| 3.50 → 3.60   | 3.505  | 4  | 56  | 12 | 4 |
| 3.61 → 4.10   | 4.005  | 4  | 56  | 12 | 4 |
| 4.11 → 4.60   | 4.505  | 4  | 63  | 12 | 4 |
| 4.61 → 5.10   | 5.005  | 4  | 63  | 12 | 4 |
| 5.11 → 5.60   | 5.505  | 5  | 63  | 12 | 4 |
| 5.61 → 6.10   | 6.005  | 5  | 63  | 12 | 4 |
| 6.11 → 6.60   | 6.505  | 6  | 63  | 12 | 4 |
| 6.61 → 7.10   | 7.005  | 6  | 71  | 12 | 6 |
| 7.11 → 7.60   | 7.505  | 6  | 71  | 12 | 6 |
| 7.61 → 8.10   | 8.005  | 6  | 71  | 12 | 6 |
| 8.11 → 8.60   | 8.505  | 8  | 71  | 12 | 6 |
| 8.61 → 9.10   | 9.005  | 8  | 71  | 12 | 6 |
| 9.11 → 9.60   | 9.505  | 8  | 71  | 12 | 6 |
| 9.61 → 10.10  | 10.005 | 8  | 71  | 12 | 6 |
| 10.11 → 10.60 |        | 10 | 71  | 12 | 6 |
| 10.61 → 11.10 |        | 10 | 80  | 15 | 6 |
| 11.11 → 11.60 |        | 10 | 80  | 15 | 6 |
| 11.61 → 12.10 |        | 10 | 80  | 15 | 6 |
| 12.11 → 12.60 |        | 10 | 80  | 15 | 6 |
| 12.61 → 13.10 |        | 10 | 80  | 15 | 6 |
| 13.11 → 13.60 |        | 12 | 80  | 15 | 6 |
| 13.61 → 14.10 |        | 12 | 90  | 20 | 6 |
| 14.11 → 14.60 |        | 14 | 90  | 20 | 6 |
| 14.61 → 15.10 |        | 14 | 90  | 20 | 6 |
| 15.11 → 15.60 |        | 14 | 90  | 20 | 6 |
| 15.61 → 16.10 |        | 14 | 90  | 20 | 6 |
| 16.11 → 16.60 |        | 14 | 90  | 20 | 6 |
| 16.61 → 17.10 |        | 14 | 90  | 20 | 6 |
| 17.11 → 17.60 |        | 16 | 90  | 20 | 6 |
| 17.61 → 18.10 |        | 16 | 100 | 25 | 6 |
| 18.11 → 18.60 |        | 16 | 100 | 25 | 6 |
| 18.61 → 19.10 |        | 16 | 100 | 25 | 6 |
| 19.11 → 19.60 |        | 16 | 100 | 25 | 6 |
| 19.61 → 20.10 |        | 16 | 100 | 25 | 6 |



Ex. ref. Ø3.50 = ALC710-003.500

# ALC 720

## ALESOIRS CARBURE MONOBLOC EXTRA COURTS DIN 8089 POUR MACHINES AUTOMATIQUES

Taille droite pour trous borgnes (Forme A)  
Queue cylindrique



Solid carbide extra short machine reamers DIN 8089 - Straight flutes for blind holes



Escariadores extra cortos MD integral DIN 8089 - Labios rectos para agujeros ciegos



Alesatori extra corti MD integrale DIN 8089 - Taglienti diritti per fori ciechi



VHM extra kurze Maschinenreibahlen DIN 8089 - Geradenutet für Sackloch

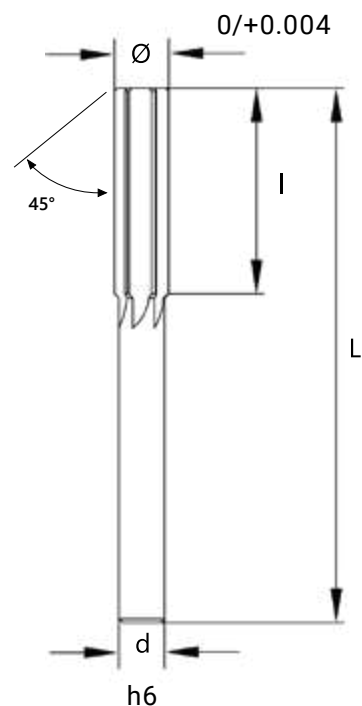


SOLID  
WC

DIN  
8089



| Ø             | + Ø    | d  | L   | I  | Z |
|---------------|--------|----|-----|----|---|
| 3.50 → 3.60   | 3.505  | 4  | 56  | 12 | 4 |
| 3.61 → 4.10   | 4.005  | 4  | 56  | 12 | 4 |
| 4.11 → 4.60   | 4.505  | 4  | 63  | 12 | 4 |
| 4.61 → 5.10   | 5.005  | 4  | 63  | 12 | 4 |
| 5.11 → 5.60   | 5.505  | 5  | 63  | 12 | 4 |
| 5.61 → 6.10   | 6.005  | 5  | 63  | 12 | 4 |
| 6.11 → 6.60   | 6.505  | 6  | 63  | 12 | 4 |
| 6.61 → 7.10   | 7.005  | 6  | 71  | 12 | 6 |
| 7.11 → 7.60   | 7.505  | 6  | 71  | 12 | 6 |
| 7.61 → 8.10   | 8.005  | 6  | 71  | 12 | 6 |
| 8.11 → 8.60   | 8.505  | 8  | 71  | 12 | 6 |
| 8.61 → 9.10   | 9.005  | 8  | 71  | 12 | 6 |
| 9.11 → 9.60   | 9.505  | 8  | 71  | 12 | 6 |
| 9.61 → 10.10  | 10.005 | 8  | 71  | 12 | 6 |
| 10.11 → 10.60 |        | 10 | 71  | 12 | 6 |
| 10.61 → 11.10 |        | 10 | 80  | 15 | 6 |
| 11.11 → 11.60 |        | 10 | 80  | 15 | 6 |
| 11.61 → 12.10 |        | 10 | 80  | 15 | 6 |
| 12.11 → 12.60 |        | 10 | 80  | 15 | 6 |
| 12.61 → 13.10 |        | 10 | 80  | 15 | 6 |
| 13.11 → 13.60 |        | 12 | 80  | 15 | 6 |
| 13.61 → 14.10 |        | 12 | 90  | 20 | 6 |
| 14.11 → 14.60 |        | 14 | 90  | 20 | 6 |
| 14.61 → 15.10 |        | 14 | 90  | 20 | 6 |
| 15.11 → 15.60 |        | 14 | 90  | 20 | 6 |
| 15.61 → 16.10 |        | 14 | 90  | 20 | 6 |
| 16.11 → 16.60 |        | 14 | 90  | 20 | 6 |
| 16.61 → 17.10 |        | 14 | 90  | 20 | 6 |
| 17.11 → 17.60 |        | 16 | 90  | 20 | 6 |
| 17.61 → 18.10 |        | 16 | 100 | 25 | 6 |
| 18.11 → 18.60 |        | 16 | 100 | 25 | 6 |
| 18.61 → 19.10 |        | 16 | 100 | 25 | 6 |
| 19.11 → 19.60 |        | 16 | 100 | 25 | 6 |
| 19.61 → 20.10 |        | 16 | 100 | 25 | 6 |



Ex. ref. Ø3.50 = ALC720-003.500

# ALC 100

## ALESOIRS CARBURE MONOBLOC EXTRA COURTS DIN 8089 POUR MACHINES AUTOMATIQUES

Taille droite pour trous borgnes (Forme A)

**Lubrification interne centrale** - Queue cylindrique



Solid carbide extra short machine reamers DIN 8089 - Straight flutes for blind holes - Central lubrication



Escariadores extra cortos MD integral DIN 8089 - Labios rectos para agujeros ciegos - Refrigeración central



Alesatori extra corti MD integrale DIN 8089 - Taglienti diritti per fori ciechi - Lubrificazione centrale



VHM extra kurze Maschinenreibahlen DIN 8089 - Geradegenutet für Sackloch - Mit zentraler Innenkühlung

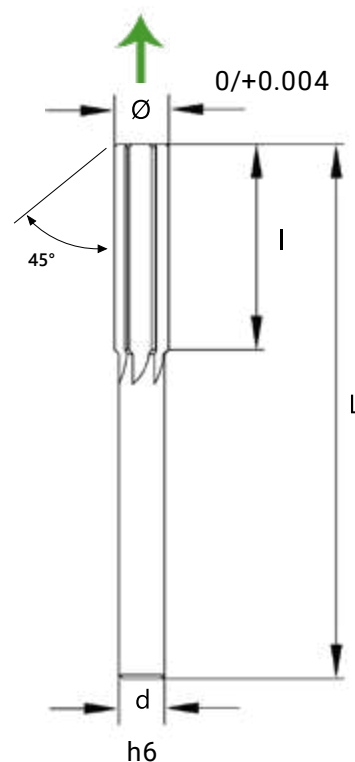


**SOLID  
WC**

**DIN  
8089**



| Ø             | + Ø    | d  | L   | l  | Z |
|---------------|--------|----|-----|----|---|
| 3.50 → 3.60   | 3.505  | 4  | 56  | 12 | 4 |
| 3.61 → 4.10   | 4.005  | 4  | 56  | 12 | 4 |
| 4.11 → 4.60   | 4.505  | 4  | 63  | 12 | 4 |
| 4.61 → 5.10   | 5.005  | 4  | 63  | 12 | 4 |
| 5.11 → 5.60   | 5.505  | 5  | 63  | 12 | 4 |
| 5.61 → 6.10   | 6.005  | 5  | 63  | 12 | 4 |
| 6.11 → 6.60   | 6.505  | 6  | 63  | 12 | 4 |
| 6.61 → 7.10   | 7.005  | 6  | 71  | 12 | 4 |
| 7.11 → 7.60   | 7.505  | 6  | 71  | 12 | 4 |
| 7.61 → 8.10   | 8.005  | 6  | 71  | 12 | 4 |
| 8.11 → 8.60   | 8.505  | 8  | 71  | 12 | 5 |
| 8.61 → 9.10   | 9.005  | 8  | 71  | 12 | 5 |
| 9.11 → 9.60   | 9.505  | 8  | 71  | 12 | 5 |
| 9.61 → 10.10  | 10.005 | 8  | 71  | 12 | 5 |
| 10.11 → 10.60 |        | 10 | 71  | 12 | 5 |
| 10.61 → 11.10 |        | 10 | 80  | 15 | 5 |
| 11.11 → 11.60 |        | 10 | 80  | 15 | 5 |
| 11.61 → 12.10 |        | 10 | 80  | 15 | 5 |
| 12.11 → 12.60 |        | 10 | 80  | 15 | 5 |
| 12.61 → 13.10 |        | 10 | 80  | 15 | 5 |
| 13.11 → 13.60 |        | 12 | 80  | 15 | 5 |
| 13.61 → 14.10 |        | 12 | 90  | 20 | 5 |
| 14.11 → 14.60 |        | 14 | 90  | 20 | 5 |
| 14.61 → 15.10 |        | 14 | 90  | 20 | 5 |
| 15.11 → 15.60 |        | 14 | 90  | 20 | 5 |
| 15.61 → 16.10 |        | 14 | 90  | 20 | 5 |
| 16.11 → 16.60 |        | 14 | 90  | 20 | 5 |
| 16.61 → 17.10 |        | 14 | 90  | 20 | 5 |
| 17.11 → 17.60 |        | 16 | 90  | 20 | 5 |
| 17.61 → 18.10 |        | 16 | 100 | 25 | 5 |
| 18.11 → 18.60 |        | 16 | 100 | 25 | 5 |
| 18.61 → 19.10 |        | 16 | 100 | 25 | 5 |
| 19.11 → 19.60 |        | 16 | 100 | 25 | 5 |
| 19.61 → 20.10 |        | 16 | 100 | 25 | 5 |



Ex. ref. Ø3.50 = ALC100-003.500

**ALE  
219**

## ALESOIRS A MAIN EXPANSIBLES EN BOUT HSS DIN 859

Hélice à gauche pour trous débouchants



HSS expandable hand reamers - Left hand helix for through holes - Straight shank with square



Escariadores manuales expandibles HSS - Hélice a izquierda para agujeros pasantes - Mango cilíndrico con cuadrado



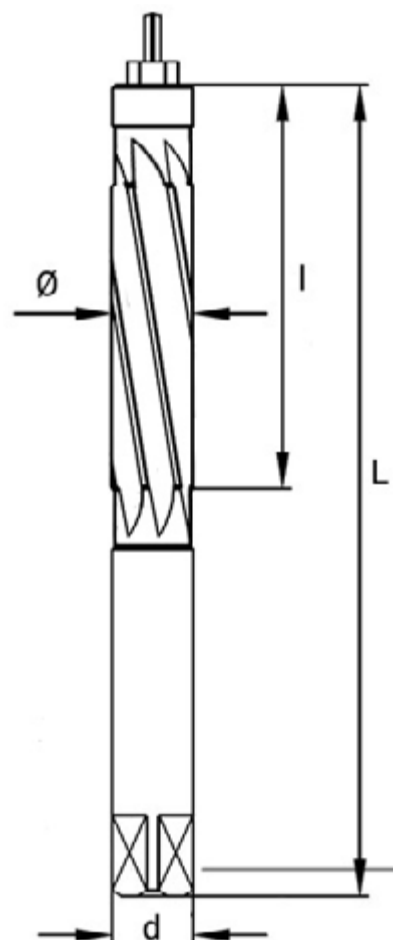
Alesatori a mano espandibili HSS - Spirale sinistra per fori passanti - Gambo cilindrico con quadrato



HSS nachstellbare Handreibahlen - Linksspiralgenutet für Durchgangsloch - Zylinderschaft mit Vierkant

**HSS****DIN  
859**

| Ø       | exp. | d   | L   | l   | Z  |
|---------|------|-----|-----|-----|----|
| 6       | 0.10 | d=Ø | 93  | 47  | 6  |
| 7       | 0.10 | d=Ø | 107 | 54  | 9  |
| 8       | 0.10 | d=Ø | 115 | 58  | 9  |
| 9       | 0.10 | d=Ø | 124 | 62  | 9  |
| 10      | 0.10 | d=Ø | 133 | 66  | 9  |
| 11      | 0.15 | d=Ø | 142 | 71  | 9  |
| 12      | 0.15 | d=Ø | 152 | 76  | 9  |
| 13      | 0.15 | d=Ø | 152 | 76  | 9  |
| 14      | 0.15 | d=Ø | 163 | 81  | 9  |
| 15      | 0.15 | d=Ø | 163 | 81  | 9  |
| 16      | 0.20 | d=Ø | 175 | 87  | 9  |
| 17      | 0.20 | d=Ø | 175 | 87  | 9  |
| 18      | 0.20 | d=Ø | 188 | 93  | 9  |
| 19      | 0.20 | d=Ø | 188 | 93  | 9  |
| 20      | 0.20 | d=Ø | 201 | 100 | 9  |
| 21      | 0.20 | d=Ø | 201 | 100 | 9  |
| 22      | 0.20 | d=Ø | 215 | 107 | 12 |
| 23      | 0.30 | d=Ø | 215 | 107 | 12 |
| 24 → 26 | 0.30 | d=Ø | 231 | 115 | 12 |
| 27 & 29 | 0.30 | d=Ø | 247 | 124 | 12 |
| 28 & 30 | 0.30 | d=Ø | 247 | 124 | 12 |
| 31      | 0.40 | d=Ø | 265 | 133 | 12 |
| 32      | 0.40 | d=Ø | 265 | 133 | 12 |
| 33      | 0.40 | d=Ø | 265 | 133 | 12 |
| 34      | 0.40 | d=Ø | 284 | 142 | 12 |
| 35      | 0.40 | d=Ø | 284 | 142 | 12 |
| 36      | 0.40 | d=Ø | 284 | 142 | 12 |
| 37      | 0.40 | d=Ø | 284 | 142 | 12 |
| 38 & 40 | 0.40 | d=Ø | 305 | 152 | 12 |
| 39 & 41 | 0.40 | d=Ø | 305 | 152 | 12 |
| 42      | 0.40 | d=Ø | 305 | 152 | 12 |
| 43 → 45 | 0.40 | d=Ø | 326 | 163 | 12 |
| 46 & 47 | 0.60 | d=Ø | 326 | 163 | 12 |
| 48      | 0.60 | d=Ø | 347 | 174 | 12 |
| 49      | 0.60 | d=Ø | 347 | 174 | 12 |
| 50      | 0.60 | d=Ø | 347 | 174 | 12 |
| 52      | 0.60 | d=Ø | 347 | 174 | 16 |
| 55      | 0.60 | d=Ø | 367 | 181 | 16 |
| 58      | 0.60 | d=Ø | 367 | 181 | 16 |
| 60      | 0.60 | d=Ø | 367 | 181 | 16 |



Ex. ref. Ø6 = ALE219-006.000

# ALE 229

## ALESOIRS A MAIN EXPANSIBLES EN BOUT HSS DIN 859

Taille droite pour trous borgnes



HSS expandable hand reamers - Straight flutes for blind holes - Straight shank with square



Escariadores manuales expandibles HSS - Labios rectos para agujeros ciegos - Mango cilíndrico con cuadrado



Alesatori a mano espandibili HSS - Taglienti diritti per fori ciechi - Gambo cilindrico con quadrato



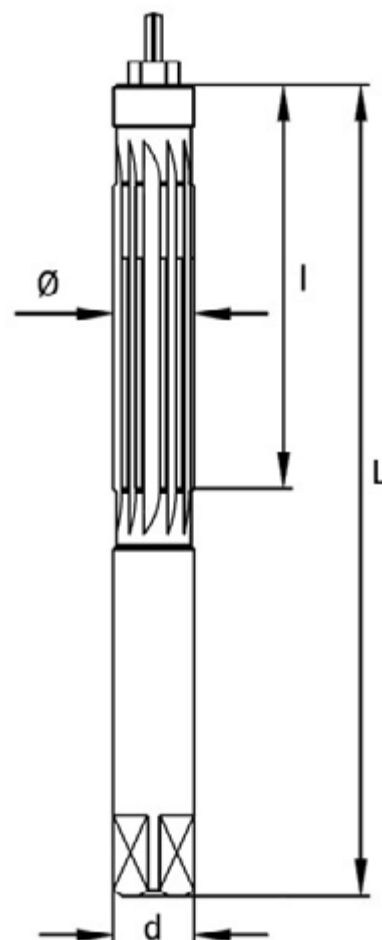
HSS nachstellbare Handreibahlen - Geradenutet für Sackloch - Zylinderschaft mit Vierkant



HSS

DIN  
859

| Ø       | exp. | d   | L   | l   | Z  |
|---------|------|-----|-----|-----|----|
| 6       | 0.10 | d=Ø | 93  | 47  | 6  |
| 7       | 0.10 | d=Ø | 107 | 54  | 9  |
| 8       | 0.10 | d=Ø | 115 | 58  | 9  |
| 9       | 0.10 | d=Ø | 124 | 62  | 9  |
| 10      | 0.10 | d=Ø | 133 | 66  | 9  |
| 11      | 0.15 | d=Ø | 142 | 71  | 9  |
| 12      | 0.15 | d=Ø | 152 | 76  | 9  |
| 13      | 0.15 | d=Ø | 152 | 76  | 9  |
| 14      | 0.15 | d=Ø | 163 | 81  | 9  |
| 15      | 0.15 | d=Ø | 163 | 81  | 9  |
| 16      | 0.20 | d=Ø | 175 | 87  | 9  |
| 17      | 0.20 | d=Ø | 175 | 87  | 9  |
| 18      | 0.20 | d=Ø | 188 | 93  | 9  |
| 19      | 0.20 | d=Ø | 188 | 93  | 9  |
| 20      | 0.20 | d=Ø | 201 | 100 | 9  |
| 21      | 0.20 | d=Ø | 201 | 100 | 9  |
| 22      | 0.20 | d=Ø | 215 | 107 | 12 |
| 23      | 0.30 | d=Ø | 215 | 107 | 12 |
| 24 → 26 | 0.30 | d=Ø | 231 | 115 | 12 |
| 27 & 29 | 0.30 | d=Ø | 247 | 124 | 12 |
| 28 & 30 | 0.30 | d=Ø | 247 | 124 | 12 |
| 31      | 0.40 | d=Ø | 265 | 133 | 12 |
| 32      | 0.40 | d=Ø | 265 | 133 | 12 |
| 33      | 0.40 | d=Ø | 265 | 133 | 12 |
| 34      | 0.40 | d=Ø | 284 | 142 | 12 |
| 35      | 0.40 | d=Ø | 284 | 142 | 12 |
| 36      | 0.40 | d=Ø | 284 | 142 | 12 |
| 37      | 0.40 | d=Ø | 284 | 142 | 12 |
| 38 & 40 | 0.40 | d=Ø | 305 | 152 | 12 |
| 39 & 41 | 0.40 | d=Ø | 305 | 152 | 12 |
| 42      | 0.40 | d=Ø | 305 | 152 | 12 |
| 43 → 45 | 0.40 | d=Ø | 326 | 163 | 12 |
| 46 & 47 | 0.60 | d=Ø | 326 | 163 | 12 |
| 48      | 0.60 | d=Ø | 347 | 174 | 12 |
| 49      | 0.60 | d=Ø | 347 | 174 | 12 |
| 50      | 0.60 | d=Ø | 347 | 174 | 12 |
| 52      | 0.60 | d=Ø | 347 | 174 | 16 |
| 55      | 0.60 | d=Ø | 367 | 181 | 16 |
| 58      | 0.60 | d=Ø | 367 | 181 | 16 |
| 60      | 0.60 | d=Ø | 367 | 181 | 16 |



Ex. ref. Ø6 = ALE229-006.000

FOC

ALC

ALB-E-H

FTC

FRC

EVC-H

LRC

EBC

COF

XTRA

info

# ALH 611

## ALESOIRS MACHINE HSS POUR RIVETS DIN 311

Hélice à gauche 25°  
Queue cône morse



HSS machine reamers for rivet holes DIN 311 - 25° Left hand helix - MT shank



Escariadores de máquina HSS para remaches DIN 311 - Hélice 25° a izquierda - Mango cónico



Alesatori a macchina HSS per rivetti DIN 311 - Spirale sinistra 25° - Gambo conico



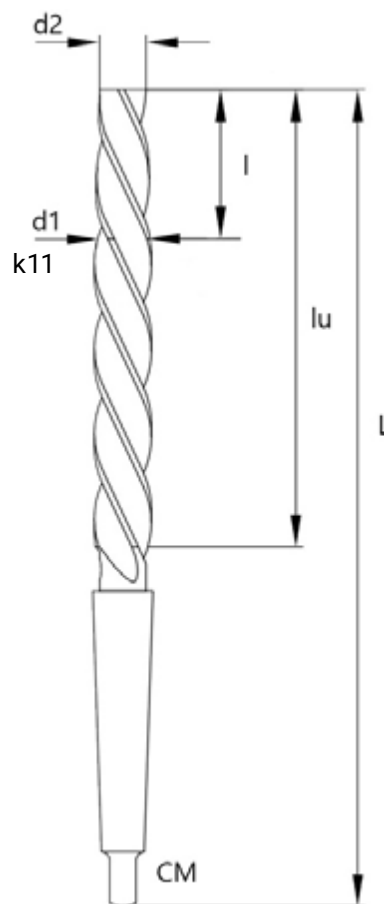
Nietlochreibahlen DIN 311 - 25° linksspiral - MK-schaft



HSS

DIN  
311

| d1   | d2   | CM | L   | I  | lu  | Z |
|------|------|----|-----|----|-----|---|
| 6.4  | 4.5  | 1  | 151 | 19 | 75  | 3 |
| 7.4  | 5.2  | 1  | 156 | 22 | 80  | 3 |
| 8.0  | 5.5  | 1  | 161 | 25 | 85  | 3 |
| 8.4  | 5.9  | 1  | 161 | 25 | 85  | 3 |
| 9.0  | 6.3  | 1  | 166 | 27 | 90  | 4 |
| 9.5  | 6.8  | 1  | 166 | 27 | 90  | 4 |
| 10.0 | 7    | 1  | 171 | 30 | 95  | 4 |
| 11.0 | 7.7  | 1  | 176 | 33 | 100 | 4 |
| 12.0 | 8.1  | 2  | 199 | 39 | 105 | 5 |
| 13.0 | 9.1  | 2  | 199 | 39 | 105 | 5 |
| 14.0 | 9.8  | 2  | 209 | 42 | 115 | 5 |
| 15.0 | 10.5 | 2  | 219 | 45 | 125 | 5 |
| 16.0 | 11.2 | 2  | 229 | 48 | 135 | 5 |
| 17.0 | 11.9 | 3  | 251 | 51 | 135 | 5 |
| 18.0 | 12.2 | 3  | 261 | 58 | 145 | 5 |
| 19.0 | 13.2 | 3  | 261 | 58 | 145 | 5 |
| 20.0 | 13.8 | 3  | 271 | 62 | 155 | 5 |
| 21.0 | 14.8 | 3  | 271 | 62 | 155 | 5 |
| 22.0 | 15.4 | 3  | 281 | 66 | 165 | 5 |
| 23.0 | 16.4 | 3  | 281 | 66 | 165 | 5 |
| 24.0 | 16.8 | 3  | 296 | 72 | 180 | 5 |
| 25.0 | 17.8 | 3  | 296 | 72 | 180 | 5 |
| 26.0 | 18.8 | 3  | 296 | 72 | 180 | 5 |
| 27.0 | 19.2 | 3  | 311 | 78 | 195 | 5 |
| 28.0 | 20.2 | 3  | 311 | 78 | 195 | 5 |
| 29.0 | 21.2 | 3  | 311 | 78 | 195 | 5 |
| 30.0 | 22.2 | 3  | 311 | 78 | 195 | 5 |
| 31.0 | 22.6 | 3  | 326 | 84 | 210 | 5 |
| 32.0 | 23.6 | 4  | 354 | 84 | 210 | 5 |
| 33.0 | 24.6 | 4  | 354 | 84 | 210 | 5 |
| 34.0 | 25.2 | 4  | 364 | 88 | 220 | 5 |
| 35.0 | 26.2 | 4  | 364 | 88 | 220 | 5 |
| 36.0 | 27.2 | 4  | 364 | 88 | 220 | 5 |
| 37.0 | 28.2 | 4  | 364 | 88 | 220 | 5 |
| 38.0 | 28.8 | 4  | 374 | 92 | 230 | 5 |
| 39.0 | 29.8 | 4  | 374 | 92 | 230 | 5 |
| 40.0 | 30.8 | 4  | 374 | 92 | 230 | 5 |



Ex. ref. Ø6.4 = ALH611-006.400

# ALH 630

## ALESOIRS MACHINE HSS CONICITE 1:50 (2%) DIN 2179

Hélice à gauche 45° (Forme E)  
Queue cylindrique



HSS taper machine reamers 1:50 (2%) DIN 2179 - 45° Left hand helix



Escariadores de máquina HSS cónicos 1:50 (2%) DIN 2179 - Hélice 45° a izquierda



Alesatori a macchina HSS conicità 1:50 (2%) DIN 2179 - Spirale sinistra 45°



Kegel-Schälreibahnen 1:50 (2%) DIN 2179 - 45° linksspiral

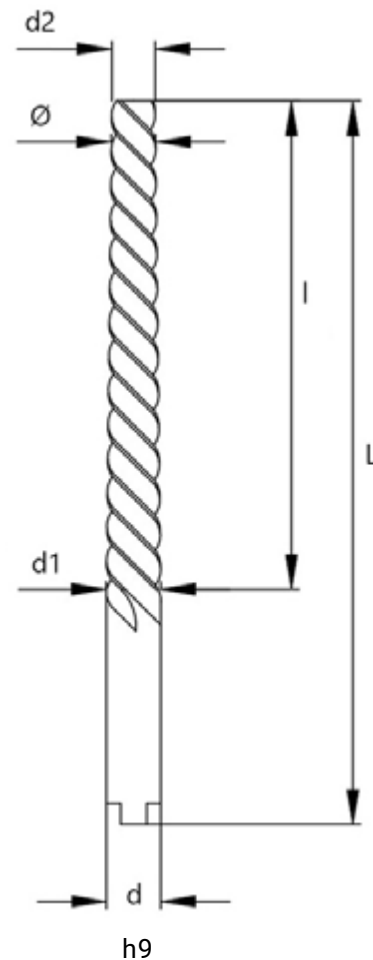


HSS

DIN  
2179

| Ø     | d1    | d2    | d    | L   | l   | Z |
|-------|-------|-------|------|-----|-----|---|
| 1.50  | 2.26  | 1.40  | 2    | 64  | 43  | 2 |
| 2.00  | 2.86  | 1.90  | 3.15 | 86  | 48  | 2 |
| 2.50  | 3.36  | 2.40  | 3.15 | 86  | 48  | 3 |
| 3.00  | 4.06  | 2.90  | 4    | 100 | 58  | 3 |
| 4.00  | 5.26  | 3.90  | 5    | 112 | 68  | 3 |
| 5.00  | 6.36  | 4.90  | 6.3  | 122 | 73  | 3 |
| 6.00  | 8.00  | 5.90  | 8    | 160 | 105 | 3 |
| 6.50  | 8.78  | 6.40  | 8.5  | 187 | 119 | 3 |
| 8.00  | 10.80 | 7.90  | 10   | 207 | 145 | 3 |
| 10.00 | 13.40 | 9.90  | 12.5 | 245 | 175 | 3 |
| 12.00 | 16.00 | 11.80 | 16   | 290 | 210 | 3 |
| 13.00 | 16.74 | 12.86 | 16   | 275 | 194 | 3 |
| 14.00 | 17.74 | 13.86 | 17   | 275 | 194 | 3 |
| 16.00 | 21.12 | 15.84 | 20   | 355 | 264 | 3 |
| 20.00 | 25.20 | 19.80 | 24   | 370 | 270 | 3 |
| 25.00 | 30.94 | 24.74 | 28   | 420 | 310 | 4 |

Ex. ref. Ø1.50 = ALH630-001.500



ALH  
738

## ALESOIRS MACHINE HSS POUR CONE MORSE (A) DIN 1895

Forme D  
Queue cône morse



HSS taper machine reamers for morse taper holes (A) DIN 1895 - MT shank



Escariadores de máquina cónicos HSS para conos morse (A) DIN 1895 - Mango cónico



Alesatori a macchina conici HSS per coni morse (A) DIN 1895 - Gambo conico



HSS Morse-Kegelreibahlen zum Reiben von Morsekegelbohrungen (A) DIN 1895 - MK-schaft

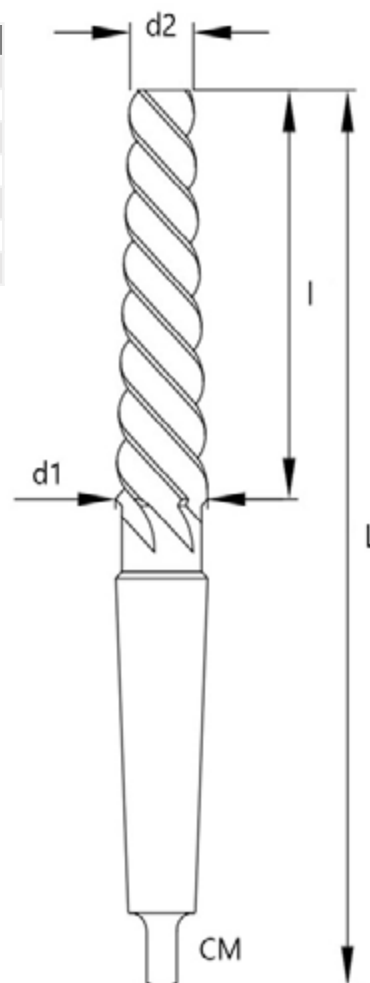


HSS

DIN  
1895

| A | d1     | d2     | CM | L   | I   | Z |
|---|--------|--------|----|-----|-----|---|
| 0 | 9.513  | 6.338  | 1  | 137 | 61  | 3 |
| 1 | 12.664 | 9.571  | 1  | 142 | 66  | 3 |
| 2 | 18.479 | 14.533 | 2  | 173 | 79  | 4 |
| 3 | 24.628 | 19.809 | 3  | 212 | 96  | 5 |
| 4 | 32.098 | 25.917 | 4  | 263 | 119 | 6 |
| 5 | 45.452 | 37.558 | 5  | 331 | 150 | 6 |
| 6 | 64.704 | 53.859 | 5  | 389 | 208 | 7 |

Ex. ref. application (A) pour cône morse 0 = ALH738-0





# ALESOIRS A MAIN HSS POUR CONE MORSE (A) DIN 204

Forme W  
Taille droite avec brise-copeaux



HSS taper hand reamers for morse taper holes (A) DIN 204 - Straight flutes with chip breakers



Escariadores manuales cónicos HSS para conos morse (A) DIN 204 - Labios rectos con rompevirutas



Alesatori a mano conici HSS per coni morse (A) DIN 204 - Taglienti diritti con rompitruciolo



HSS Vorreibahlen zum Reiben von Morsekegelbohrungen (A) DIN 204 - Geradenutet mit Spanbrechern

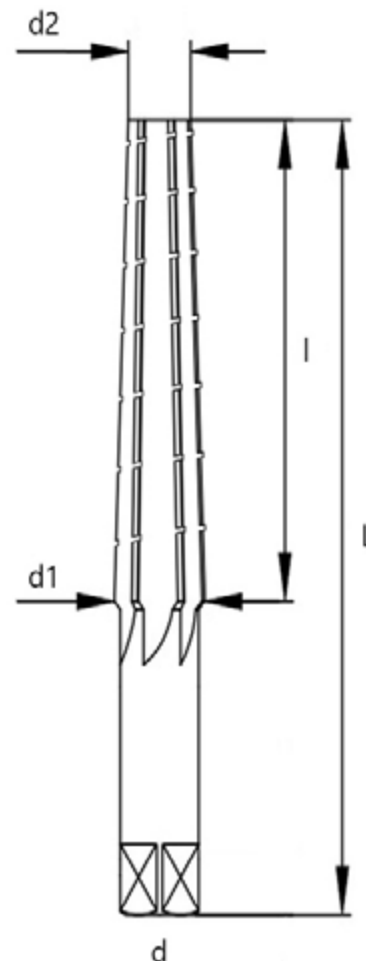


HSS

DIN  
204

| A | d1     | d2     | d   | L   | l   | Z  |
|---|--------|--------|-----|-----|-----|----|
| 0 | 9.722  | 6.547  | 6.2 | 93  | 61  | 6  |
| 1 | 12.863 | 9.571  | 8   | 102 | 66  | 8  |
| 2 | 18.679 | 14.733 | 11  | 121 | 79  | 8  |
| 3 | 24.829 | 20.010 | 16  | 146 | 96  | 10 |
| 4 | 32.410 | 26.229 | 20  | 179 | 119 | 10 |
| 5 | 45.767 | 37.873 | 24  | 222 | 150 | 12 |
| 6 | 65.016 | 54.172 | 35  | 300 | 208 | 16 |

Ex. ref. application (A) pour cône morse 0 = ALH746-0



FOC

ALC

ALB-E-H

FTC

FRC

EVG-H

LRC

EBC

COF

XTRA

info

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