

# NEWS 2015

# Rime

UTENSILERIA



RN-N14.02



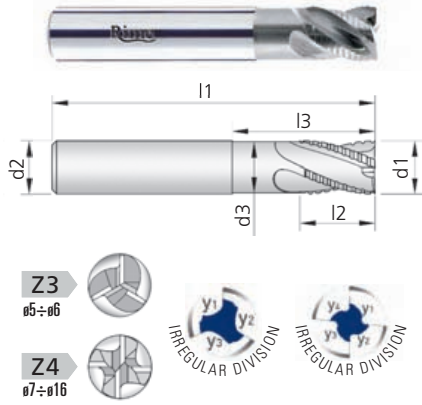
**HM**



MADE IN ITALY

**HM18CNFR**

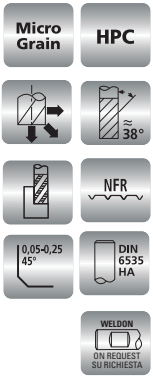
Denti elicoidali con rompitrucolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Divisione irregolare  
 ROUGHING SOLID CARBIDE END MILL - Helical teeth with form relieved entirely ground chip-breaker - Irregular division



| CODE        | d1<br>mm h10 | l2<br>mm | l1<br>mm | l3<br>mm | d3<br>mm | d2<br>mm h6 | Z | K<br>€ | SUPREME<br>€ |
|-------------|--------------|----------|----------|----------|----------|-------------|---|--------|--------------|
| HM18CNFR/05 | 5            | 8        | 50       | 13       | 4,8      | 6           | 3 | 34,00  | 43,00        |
| HM18CNFR/06 | 6            | 9        | 50       | 15       | 5,8      | 6           | 3 | 34,00  | 43,00        |
| HM18CNFR/07 | 7            | 10       | 58       | 17       | 6,7      | 8           | 4 | 54,00  | 65,00        |
| HM18CNFR/08 | 8            | 12       | 58       | 20       | 7,7      | 8           | 4 | 48,50  | 59,50        |
| HM18CNFR/09 | 9            | 13       | 66       | 21       | 8,6      | 10          | 4 | 77,00  | 90,50        |
| HM18CNFR/10 | 10           | 15       | 66       | 23       | 9,6      | 10          | 4 | 69,00  | 82,50        |
| HM18CNFR/11 | 11           | 16       | 73       | 26       | 10,5     | 12          | 4 | 102,00 | 119,20       |
| HM18CNFR/12 | 12           | 18       | 73       | 27       | 11,5     | 12          | 4 | 93,50  | 110,70       |
| HM18CNFR/13 | 13           | 19       | 75       | 28       | 12,5     | 14          | 4 | 138,00 | 159,00       |
| HM18CNFR/14 | 14           | 20       | 75       | 29       | 13,4     | 14          | 4 | 128,00 | 149,50       |
| HM18CNFR/16 | 16           | 23       | 82       | 33       | 15,4     | 16          | 4 | 165,00 | 187,00       |

**SUPREME** Rivestimento Coating **NFR** Rugosità della superficie lavorata Ra >1,6 <3,2 μm  
 Roughness surface machined Ra >1,6 <3,2 μm

SHORT  
 NORMAL  
 LONG  
 EXTRA-LONG



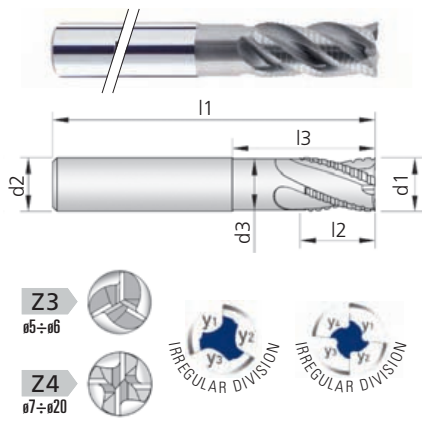
Consigliato l'utilizzo con mandrini a forte serraggio o Weldon Suggested with hard chuck or Weldon holder

▲ CONSIGLIATO RECOMMENDED  
 ▼ SCONSIGLIATO NOT RECOMMENDED  
 ▲ ACCETTABILE ACCEPTABLE



**HM18NFR**

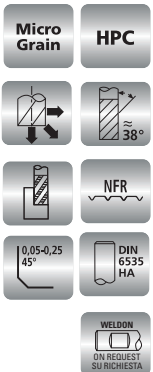
Denti elicoidali con rompitrucolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Divisione irregolare  
 ROUGHING SOLID CARBIDE END MILL - Helical teeth with form relieved entirely ground chip-breaker - Irregular division



| CODE       | d1<br>mm h10 | l2<br>mm | l1<br>mm | l3<br>mm | d3<br>mm | d2<br>mm h6 | Z | K<br>€ | SUPREME<br>€ |
|------------|--------------|----------|----------|----------|----------|-------------|---|--------|--------------|
| HM18NFR/05 | 5            | 13       | 58       | 18       | 4,9      | 6           | 3 | 39,80  | 48,60        |
| HM18NFR/06 | 6            | 15       | 58       | 21       | 5,8      | 6           | 3 | 38,80  | 47,60        |
| HM18NFR/07 | 7            | 18       | 64       | 25       | 6,7      | 8           | 4 | 63,00  | 73,80        |
| HM18NFR/08 | 8            | 19       | 64       | 27       | 7,7      | 8           | 4 | 56,80  | 67,60        |
| HM18NFR/09 | 9            | 20       | 72       | 30       | 8,6      | 10          | 4 | 86,50  | 99,60        |
| HM18NFR/10 | 10           | 22       | 72       | 32       | 9,6      | 10          | 4 | 78,50  | 91,60        |
| HM18NFR/11 | 11           | 24       | 83       | 36       | 10,5     | 12          | 4 | 119,00 | 136,20       |
| HM18NFR/12 | 12           | 25       | 83       | 37       | 11,5     | 12          | 4 | 107,00 | 124,20       |
| HM18NFR/13 | 13           | 25       | 83       | 37       | 12,4     | 14          | 4 | 162,50 | 183,50       |
| HM18NFR/14 | 14           | 26       | 83       | 38       | 13,4     | 14          | 4 | 149,50 | 170,50       |
| HM18NFR/16 | 16           | 32       | 92       | 44       | 15,4     | 16          | 4 | 188,50 | 210,50       |
| HM18NFR/18 | 18           | 32       | 92       | 44       | 17,3     | 18          | 4 | 239,00 | 266,80       |
| HM18NFR/20 | 20           | 36       | 104      | 52       | 19,2     | 20          | 4 | 285,00 | 312,60       |

**SUPREME** Rivestimento Coating **NFR** Rugosità della superficie lavorata Ra >1,6 <3,2 μm  
 Roughness surface machined Ra >1,6 <3,2 μm

SHORT  
 NORMAL  
 LONG  
 EXTRA-LONG



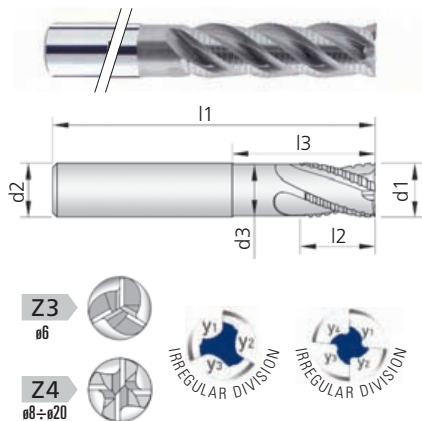
Consigliato l'utilizzo con mandrini a forte serraggio o Weldon Suggested with hard chuck or Weldon holder

▲ CONSIGLIATO RECOMMENDED  
 ▼ SCONSIGLIATO NOT RECOMMENDED  
 ▲ ACCETTABILE ACCEPTABLE



**HM18LNFR**

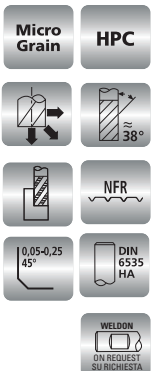
Denti elicoidali con rompitrucolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Divisione irregolare  
 ROUGHING SOLID CARBIDE END MILL - Helical teeth with form relieved entirely ground chip-breaker - Irregular division



| CODE        | d1<br>mm h10 | l2<br>mm | l1<br>mm | l3<br>mm | d3<br>mm | d2<br>mm h6 | Z | K<br>€ | SUPREME<br>€ |
|-------------|--------------|----------|----------|----------|----------|-------------|---|--------|--------------|
| HM18LNFR/06 | 6            | 20       | 65       | 28       | 5,8      | 6           | 3 | 52,80  | 62,30        |
| HM18LNFR/08 | 8            | 30       | 80       | 40       | 7,8      | 8           | 4 | 72,50  | 85,00        |
| HM18LNFR/10 | 10           | 30       | 80       | 40       | 9,7      | 10          | 4 | 92,00  | 107,75       |
| HM18LNFR/12 | 12           | 40       | 100      | 50       | 11,5     | 12          | 4 | 121,50 | 141,50       |
| HM18LNFR/14 | 14           | 45       | 115      | 60       | 13,5     | 14          | 4 | 187,50 | 212,50       |
| HM18LNFR/16 | 16           | 50       | 120      | 65       | 15,4     | 16          | 4 | 227,00 | 253,25       |
| HM18LNFR/18 | 18           | 50       | 120      | 65       | 17,3     | 18          | 4 | 299,00 | 325,00       |
| HM18LNFR/20 | 20           | 55       | 125      | 70       | 19,2     | 20          | 4 | 319,00 | 348,60       |

**SUPREME** Rivestimento Coating **NFR** Rugosità della superficie lavorata Ra >1,6 <3,2 μm  
 Roughness surface machined Ra >1,6 <3,2 μm

SHORT  
 NORMAL  
 LONG  
 EXTRA-LONG



Consigliato l'utilizzo con mandrini a forte serraggio o Weldon Suggested with hard chuck or Weldon holder

▲ CONSIGLIATO RECOMMENDED  
 ▼ SCONSIGLIATO NOT RECOMMENDED  
 ▲ ACCETTABILE ACCEPTABLE



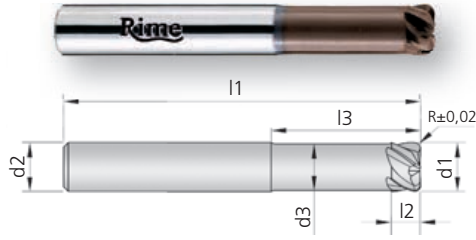
# FORM 2000 PRODIGE HM76

NEW

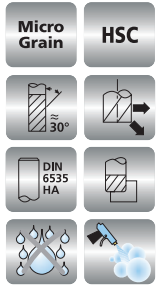
## FRESE TORICHE AD ALTO AVANZAMENTO • SERIE NORMALE

Codolo cilindrico  
SOLID CARBIDE TORIC END MILLS - High feed cutting - Straight shank

SHORT  
NORMAL  
LONG  
EXTRA-LONG



| CODE    | d1<br>mm h7 | R<br>mm | d2<br>mm h6 | d3<br>mm | l1<br>mm | l2<br>mm | l3<br>mm | Z | PRODIGE<br>€ |
|---------|-------------|---------|-------------|----------|----------|----------|----------|---|--------------|
| HM76/06 | 6           | 1,5     | 6           | 5,7      | 55       | 3        | 18       | 4 | 59,80        |
| HM76/08 | 8           | 2       | 8           | 7,5      | 63       | 4        | 25       | 5 | 79,80        |
| HM76/10 | 10          | 2       | 10          | 9,4      | 72       | 5        | 30       | 5 | 102,00       |
| HM76/12 | 12          | 3       | 12          | 11,2     | 83       | 6        | 35       | 5 | 130,00       |



▲ CONSIGLIATO RECOMMENDED  
▶ ACCETTABILE ACCEPTABLE  
▼ SCONSIGLIATO NOT RECOMMENDED

| ACCAI STEELS | GHISE CAST IRON | ≤56 HRC | ACCAI TEMPRATI HARDENED STEELS | >56 HRC | ACCAI INOSSIDABILI STAINLESS STEELS | SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM | LEGHE LEGGERE LIGHT ALLOYS | MATERIALI NON FERROSI NON FERROUS MATERIAL | GRAFITE GRAPHITE |
|--------------|-----------------|---------|--------------------------------|---------|-------------------------------------|--|----------------------------|--|------------------|
| ▶            | ▲               | ▲       | ▲                              | ▲       | ▶                                   | ▼  | ▼                          | ▼  | ▼                |

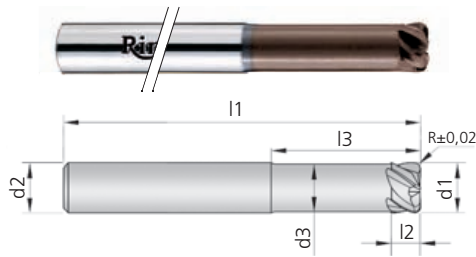
# FORM 2000 PRODIGE HM76L

NEW

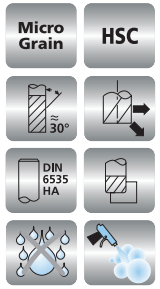
## FRESE TORICHE AD ALTO AVANZAMENTO • SERIE LUNGA

Codolo cilindrico  
SOLID CARBIDE TORIC END MILLS - High feed cutting - Straight shank

SHORT  
NORMAL  
LONG  
EXTRA-LONG



| CODE     | d1<br>mm h7 | R<br>mm | d2<br>mm h6 | d3<br>mm | l1<br>mm | l2<br>mm | l3<br>mm | Z | PRODIGE<br>€ |
|----------|-------------|---------|-------------|----------|----------|----------|----------|---|--------------|
| HM76L/06 | 6           | 1,5     | 6           | 5,7      | 80       | 3        | 25       | 4 | 76,80        |
| HM76L/08 | 8           | 2       | 8           | 7,5      | 100      | 4        | 30       | 5 | 109,00       |
| HM76L/10 | 10          | 2       | 10          | 9,4      | 100      | 5        | 35       | 5 | 134,00       |
| HM76L/12 | 12          | 3       | 12          | 11,2     | 100      | 6        | 40       | 5 | 162,00       |



▲ CONSIGLIATO RECOMMENDED  
▶ ACCETTABILE ACCEPTABLE  
▼ SCONSIGLIATO NOT RECOMMENDED

| ACCAI STEELS | GHISE CAST IRON | ≤56 HRC | ACCAI TEMPRATI HARDENED STEELS | >56 HRC | ACCAI INOSSIDABILI STAINLESS STEELS | SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM | LEGHE LEGGERE LIGHT ALLOYS | MATERIALI NON FERROSI NON FERROUS MATERIAL | GRAFITE GRAPHITE |
|--------------|-----------------|---------|--------------------------------|---------|-------------------------------------|--|----------------------------|--|------------------|
| ▶            | ▲               | ▲       | ▲                              | ▲       | ▶                                   | ▼  | ▼                          | ▼  | ▼                |

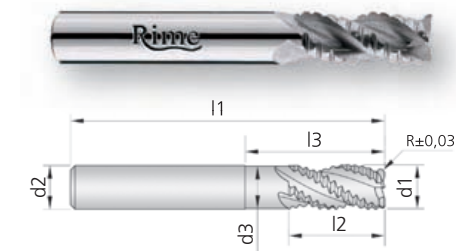
# FORM 2000 PRODIGE HM90NFW

NEW

## FRESE A SGROSSARE • SERIE NORMALE

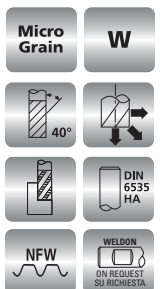
Per alluminio, leghe leggere - Metallo duro integrale micrograna - Codolo cilindrico  
ROUGHING END MILLS - For aluminium, light alloys - Solid carbide - Straight shank

SHORT  
NORMAL  
LONG  
EXTRA-LONG



| CODE       | d1<br>mm h10 | R<br>mm | l2<br>mm | l1<br>mm | l3<br>mm | d3<br>mm h6 | d2<br>mm | Z | K<br>€ | ALU PRODIGE<br>€ |
|------------|--------------|---------|----------|----------|----------|-------------|----------|---|--------|------------------|
| HM90NFW/06 | 6            | 0,25    | 15       | 58       | 21       | 5,8         | 6        | 3 | 46,50  | 58,90            |
| HM90NFW/08 | 8            | 0,25    | 19       | 64       | 27       | 7,8         | 8        | 3 | 69,80  | 85,40            |
| HM90NFW/10 | 10           | 0,50    | 22       | 72       | 32       | 9,7         | 10       | 3 | 89,00  | 108,70           |
| HM90NFW/12 | 12           | 0,50    | 26       | 83       | 37       | 11,5        | 12       | 3 | 119,00 | 141,15           |
| HM90NFW/16 | 16           | 1       | 32       | 93       | 42       | 16,7        | 16       | 3 | 192,00 | 224,60           |
| HM90NFW/20 | 20           | 1       | 38       | 104      | 50       | 19,2        | 20       | 3 | 296,00 | 346,40           |

Ricoperte ALU PRODIGE a richiesta  
ALU PRODIGE coating only upon requirements



▲ CONSIGLIATO RECOMMENDED  
▶ ACCETTABILE ACCEPTABLE  
▼ SCONSIGLIATO NOT RECOMMENDED

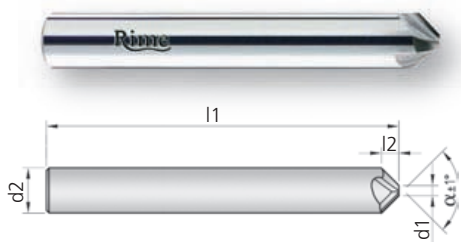
| ACCAI <500 N/mm <sup>2</sup> STEELS <500 N/mm <sup>2</sup> | ACCAI INOSSIDABILI STAINLESS STEELS | OTTONE - BRONZO BRASS - BRONZE | RAME COPPER | ALLUMINIO PURO UNALLOYED ALUMINIUM | LEGHE DI ALLUMINIO ALUMINIUM ALLOYS | MATERIALI PLASTICI PLASTIC MATERIAL | MATERIALI COMPOSITI COMPOSITE MATERIAL |
|--|-------------------------------------|--------------------------------|-------------|------------------------------------|-------------------------------------|-------------------------------------|--|
| ▼  | ▼                                   | ▶                              | ▶           | ▲                                  | ▲                                   | ▼                                   | ▼                                      |

NEW

FRESE PER SMUSSARE - SVASARE • SERIE NORMALE

HM38

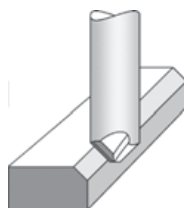
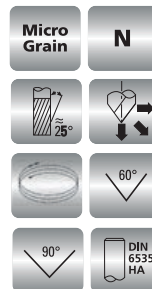
Metallo duro integrale - Codolo cilindrico  
SOLID CARBIDE COUNTERSINK END MILL - Straight shank



| CODE       | d1 mm | l2 mm | l1 mm | d2 mm h6 | α   | Z | K €   | TIALN € |
|------------|-------|-------|-------|----------|-----|---|-------|---------|
| HM38/04.60 | 1     | 2,6   | 50    | 4        | 60° | 3 | 26,50 | 32,85   |
| HM38/06.60 | 1,5   | 3,9   | 58    | 6        | 60° | 3 | 31,90 | 39,15   |
| HM38/08.60 | 2     | 5,2   | 64    | 8        | 60° | 3 | 46,00 | 57,50   |
| HM38/10.60 | 2,5   | 6,5   | 72    | 10       | 60° | 3 | 65,00 | 78,20   |
| HM38/12.60 | 3     | 7,8   | 83    | 12       | 60° | 3 | 89,70 | 106,85  |
| HM38/04.90 | 1     | 1,5   | 50    | 4        | 90° | 3 | 26,50 | 32,85   |
| HM38/06.90 | 1,5   | 2,25  | 58    | 6        | 90° | 3 | 31,90 | 39,15   |
| HM38/08.90 | 2     | 3     | 64    | 8        | 90° | 3 | 46,00 | 57,50   |
| HM38/10.90 | 2,5   | 3,75  | 72    | 10       | 90° | 3 | 65,00 | 78,20   |
| HM38/12.90 | 3     | 4,5   | 83    | 12       | 90° | 3 | 89,70 | 106,85  |



SHORT  
NORMAL  
LONG  
EXTRA-LONG



▲ CONSIGLIATO RECOMMENDED  
▶ ACCETTABILE ACCEPTABLE  
▼ SCONSIGLIATO NOT RECOMMENDED

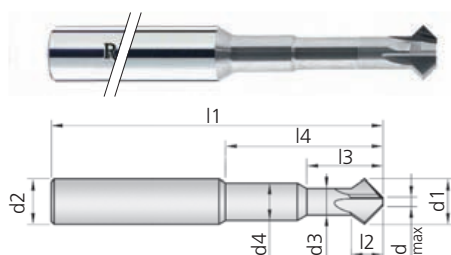
| ACCAI STEELS | GHISE CAST IRON | ≤56 HRC | ACCAI TEMPRATI HARDENED STEELS >56 HRC | ACCAI INOSSIDABILI STAINLESS STEELS | SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM | LEGHE LEGGERE LIGHT ALLOYS | MATERIALI NON FERROSI NON FERROUS MATERIAL | GRAFITE GRAPHITE |
|--------------|-----------------|---------|--|-------------------------------------|--|----------------------------|--|------------------|
| ▲            | ▲               | ▶       | ▶                                      | ▲                                   | ▶  | ▶                          | ▶  | ▶                |

NEW

FRESE PER SVASARE - SMUSSARE A DOPPIO ANGOLO • SERIE NORMALE

HM39

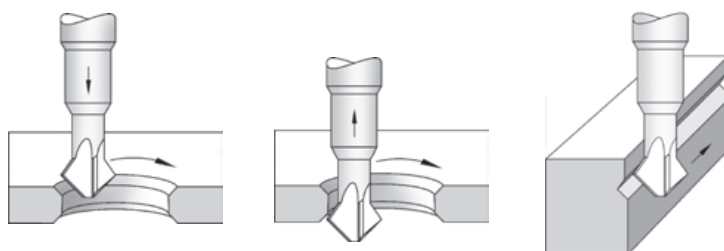
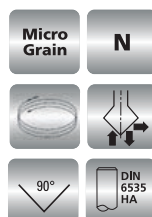
Denti dritti - Codolo cilindrico  
SOLID CARBIDE COUNTERSINK END MILL - Double angle - Straight shank



| CODE     | d1 mm h10 | l2 mm | d max | l1 mm | l3 mm | d3 mm | d2 mm h6 | d4 mm | l4 mm | K €    | TIALN € |
|----------|-----------|-------|-------|-------|-------|-------|----------|-------|-------|--------|---------|
| HM39/038 | 3,8       | 1,6   | 1,6   | 80    | 13    | 2,9   | 6        | -     | -     | 65,00  | 79,30   |
| HM39/048 | 4,8       | 2     | 2     | 80    | 15    | 3,5   | 6        | 4     | 25    | 67,00  | 81,30   |
| HM39/058 | 5,8       | 2,6   | 2,4   | 80    | 18    | 3,9   | 6        | 4,7   | 30    | 69,50  | 83,80   |
| HM39/078 | 7,8       | 3,3   | 4     | 100   | 22    | 5     | 8        | 6,5   | 35    | 99,80  | 116,50  |
| HM39/098 | 9,8       | 3,8   | 5,5   | 100   | 25    | 6,5   | 10       | 7,5   | 40    | 122,00 | 145,70  |
| HM39/118 | 11,8      | 5,3   | 6     | 100   | 30    | 7     | 12       | 8     | 43    | 149,00 | 169,30  |



SHORT  
NORMAL  
LONG  
EXTRA-LONG



▲ CONSIGLIATO RECOMMENDED  
▶ ACCETTABILE ACCEPTABLE  
▼ SCONSIGLIATO NOT RECOMMENDED

| ACCAI STEELS | GHISE CAST IRON | ≤56 HRC | ACCAI TEMPRATI HARDENED STEELS >56 HRC | ACCAI INOSSIDABILI STAINLESS STEELS | SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM | LEGHE LEGGERE LIGHT ALLOYS | MATERIALI NON FERROSI NON FERROUS MATERIAL | GRAFITE GRAPHITE |
|--------------|-----------------|---------|--|-------------------------------------|--|----------------------------|--|------------------|
| ▲            | ▲               | ▶       | ▶                                      | ▲                                   | ▶  | ▶                          | ▶  | ▶                |

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