

# 4刃 センタカット ショート

4 Flutes•Short•Center Cutting

## CC-EMS



●マークの説明はP1をご覧ください。See page 1 for explanation of icons.



0~+0.03



P.249

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | 外径<br>Dc | 全長<br>L | 刃長<br>ℓ | シャンク径<br>Ds | 在庫<br>Stock | 標準価格<br>(Yen) |
|--------------------|----------|---------|---------|-------------|-------------|---------------|
|                    | 2        | 50      | 8       | 6           | □           |               |
|                    | 2.1      |         |         |             |             |               |
|                    | 2.2      |         |         |             |             |               |
|                    | 2.3      |         |         |             |             |               |
|                    | 2.4      |         |         |             |             |               |
| 80705              | 2.5      |         | 10      |             | A           | 2,910         |
|                    | 2.6      |         |         |             |             |               |
|                    | 2.7      |         |         |             |             |               |
|                    | 2.8      |         |         |             |             |               |
|                    | 2.9      |         |         |             |             |               |
| 80706              | 3        | 60      | 12      | A           | 2,510       |               |
|                    | 3.1      |         |         |             |             |               |
|                    | 3.2      |         |         |             |             |               |
|                    | 3.3      |         |         |             |             |               |
|                    | 3.4      |         |         |             |             |               |
| 80707              | 3.5      |         | 15      | □           |             |               |
|                    | 3.6      |         |         |             |             |               |
|                    | 3.7      |         |         |             |             |               |
|                    | 3.8      |         |         |             |             |               |
|                    | 3.9      |         |         |             |             |               |
| 80708              | 4        | 60      | 8       | A           | 2,510       |               |
|                    | 4.1      |         |         |             |             |               |
|                    | 4.2      |         |         |             |             |               |
|                    | 4.3      |         |         |             |             |               |
|                    | 4.4      |         |         |             |             |               |
| 80709              | 4.5      |         | 20      | 10          | A           | 2,780         |
|                    | 4.6      |         |         |             |             |               |
|                    | 4.7      |         |         |             |             |               |
|                    | 4.8      |         |         |             |             |               |
|                    | 4.9      |         |         |             |             |               |
| 80710              | 5        | 60      | 15      | A           | 2,510       |               |
|                    | 5.1      |         |         |             |             |               |
|                    | 5.2      |         |         |             |             |               |
|                    | 5.3      |         |         |             |             |               |
|                    | 5.4      |         |         |             |             |               |
| 80711              | 5.5      |         | 20      | 10          | A           | 2,780         |
|                    | 5.6      |         |         |             |             |               |
|                    | 5.7      |         |         |             |             |               |
|                    | 5.8      |         |         |             |             |               |
|                    | 5.9      |         |         |             |             |               |
| 80712              | 6        | 60      | 20      | □           |             |               |
|                    | 6.1      |         |         |             |             |               |
|                    | 6.2      |         |         |             |             |               |
|                    | 6.3      |         |         |             |             |               |
|                    | 6.4      |         |         |             |             |               |
| 80713              | 6.5      |         | 20      | 10          | A           | 2,780         |
|                    | 6.6      |         |         |             |             |               |
|                    | 6.7      |         |         |             |             |               |
|                    | 6.8      |         |         |             |             |               |

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | 外径<br>Dc | 全長<br>L | 刃長<br>ℓ | シャンク径<br>Ds | 在庫<br>Stock | 標準価格<br>(Yen) |       |       |
|--------------------|----------|---------|---------|-------------|-------------|---------------|-------|-------|
|                    | 6.9      | 60      | 20      | 10          | □           |               |       |       |
| 80714              | 7        |         |         |             |             |               | A     | 2,780 |
|                    | 7.1      |         |         |             |             |               |       |       |
|                    | 7.2      |         |         |             |             |               |       |       |
|                    | 7.3      |         |         |             |             |               |       |       |
|                    | 7.4      |         |         |             |             |               |       |       |
| 80715              | 7.5      |         |         |             | 70          | 25            | A     | 2,780 |
|                    | 7.6      |         |         |             |             |               |       |       |
|                    | 7.7      |         |         |             |             |               |       |       |
|                    | 7.8      |         |         |             |             |               |       |       |
|                    | 7.9      |         |         |             |             |               |       |       |
| 80716              | 8        | 80      | 30      | A           |             |               | 2,780 |       |
|                    | 8.1      |         |         |             |             |               |       |       |
|                    | 8.2      |         |         |             |             |               |       |       |
|                    | 8.3      |         |         |             |             |               |       |       |
|                    | 8.4      |         |         |             |             |               |       |       |
| 80717              | 8.5      |         |         | 80          | 30          | A             | 3,250 |       |
|                    | 8.6      |         |         |             |             |               |       |       |
|                    | 8.7      |         |         |             |             |               |       |       |
|                    | 8.8      |         |         |             |             |               |       |       |
|                    | 8.9      |         |         |             |             |               |       |       |
| 80718              | 9        | 80      | 30      |             |             | A             | 3,250 |       |
|                    | 9.1      |         |         |             |             |               |       |       |
|                    | 9.2      |         |         |             |             |               |       |       |
|                    | 9.3      |         |         |             |             |               |       |       |
|                    | 9.4      |         |         |             |             |               |       |       |
| 80719              | 9.5      |         |         | 80          | 30          | A             | 3,250 |       |
|                    | 9.6      |         |         |             |             |               |       |       |
|                    | 9.7      |         |         |             |             |               |       |       |
|                    | 9.8      |         |         |             |             |               |       |       |
|                    | 9.9      |         |         |             |             |               |       |       |
| 80720              | 10       | 80      | 30      |             |             | A             | 3,250 |       |
|                    | 10.1     |         |         |             |             |               |       |       |
|                    | 10.2     |         |         |             |             |               |       |       |
|                    | 10.3     |         |         |             |             |               |       |       |
|                    | 10.4     |         |         |             |             |               |       |       |
| 87741              | 10.5     |         |         | 80          | 30          | D             | 6,330 |       |
|                    | 10.6     |         |         |             |             |               |       |       |
|                    | 10.7     |         |         |             |             |               |       |       |
|                    | 10.8     |         |         |             |             |               |       |       |
|                    | 10.9     |         |         |             |             |               |       |       |
| 80721              | 11       | 80      | 30      |             |             | A             | 4,170 |       |
|                    | 11.1     |         |         |             |             |               |       |       |
|                    | 11.2     |         |         |             |             |               |       |       |
|                    | 11.3     |         |         |             |             |               |       |       |
|                    | 11.4     |         |         |             |             |               |       |       |
| 87742              | 11.5     |         |         | 80          | 30          | D             | 6,330 |       |
|                    | 11.6     |         |         |             |             |               |       |       |
|                    | 11.7     |         |         |             |             |               |       |       |

切削油剤はP261をご参照下さい。Cutting Fluid:Please refer to P261.



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| 炭素鋼<br>CARBON STEELS          | 合金鋼<br>ALLOY STEELS | プリハードン鋼<br>PREHARDENED STEELS | ステンレス鋼<br>STAINLESS STEELS | 鋳鉄<br>CAST IRON              | 銅合金<br>COPPER ALLOYS | アルミ合金<br>ALUMINUM ALLOYS | チタン合金<br>TITANIUM ALLOYS | 耐熱合金<br>HEAT RESISTANT ALLOYS | プラスチック<br>PLASTIC |
|-------------------------------|---------------------|-------------------------------|----------------------------|------------------------------|----------------------|--------------------------|--------------------------|-------------------------------|-------------------|
| プリハードン鋼<br>PREHARDENED STEELS | 工具鋼<br>TOOL STEELS  | 焼き入れ鋼<br>HARDENED STEELS      |                            | ダクタイル鋳鉄<br>DUCTILE CAST IRON |                      |                          |                          |                               |                   |
| ~40HRC                        |                     | ~45HRC                        | ~35HRC                     | ~350HB                       |                      |                          |                          |                               |                   |
| ○                             |                     |                               | ○                          | ○                            | ○                    | ○                        |                          |                               |                   |

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.

□=特定代理店在庫品 □=Stocked by specific distributors. Contact us for price & availability.

# 4刃 センタカット ショート

4 Flutes • Short • Center Cutting

## CC-EMS

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0~+0.03



切削条件

P.249



(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | 外径<br>Dc | 全長<br>L | 刃長<br>ℓ | シャンク径<br>Ds | 在庫<br>Stock              | 標準価格<br>(Yen)            |                          |                          |  |
|--------------------|----------|---------|---------|-------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
|                    | 11.8     | 80      | 30      | 12          | <input type="checkbox"/> |                          |                          |                          |  |
| 80722              | 11.9     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 12       |         |         |             |                          | A                        | 4,170                    |                          |  |
|                    | 12.1     |         |         |             |                          | <input type="checkbox"/> |                          |                          |  |
|                    | 12.2     |         |         |             |                          | <input type="checkbox"/> |                          |                          |  |
|                    | 12.3     | 85      |         |             | 12                       | <input type="checkbox"/> |                          |                          |  |
| 87743              | 12.4     |         |         |             |                          |                          |                          |                          |  |
|                    | 12.5     |         |         |             |                          |                          | D                        | 7,800                    |  |
|                    | 12.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 12.7     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 12.8     | 90      |         | 12          |                          | <input type="checkbox"/> |                          |                          |  |
| 80723              | 12.9     |         |         |             |                          |                          |                          |                          |  |
|                    | 13       |         |         |             |                          |                          | A                        | 5,140                    |  |
|                    | 13.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 13.2     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 13.3     | 90      |         |             | 16                       | <input type="checkbox"/> |                          |                          |  |
| 87744              | 13.4     |         |         |             |                          |                          |                          |                          |  |
|                    | 13.5     |         |         |             |                          |                          | D                        | 7,800                    |  |
|                    | 13.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 13.7     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 13.8     | 95      | 40      | 16          |                          | <input type="checkbox"/> |                          |                          |  |
| 80724              | 13.9     |         |         |             |                          |                          |                          |                          |  |
|                    | 14       |         |         |             |                          |                          | A                        | 5,140                    |  |
|                    | 14.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 14.2     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 14.3     | 95      |         |             | 16                       | <input type="checkbox"/> |                          |                          |  |
| 87745              | 14.4     |         |         |             |                          |                          |                          |                          |  |
|                    | 14.5     |         |         |             |                          |                          | D                        | 8,750                    |  |
|                    | 14.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 14.7     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 14.8     | 95      | 40      | 16          |                          | <input type="checkbox"/> |                          |                          |  |
| 80725              | 14.9     |         |         |             |                          |                          |                          |                          |  |
|                    | 15       |         |         |             |                          |                          | A                        | 5,780                    |  |
|                    | 15.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 15.2     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 15.3     | 95      |         |             | 16                       | <input type="checkbox"/> |                          |                          |  |
| 87746              | 15.4     |         |         |             |                          |                          |                          |                          |  |
|                    | 15.5     |         |         |             |                          |                          | D                        | 9,390                    |  |
|                    | 15.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 15.7     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 15.8     | 95      | 40      | 16          |                          | <input type="checkbox"/> |                          |                          |  |
| 80726              | 15.9     |         |         |             |                          |                          |                          |                          |  |
|                    | 16       |         |         |             |                          |                          | A                        | 6,190                    |  |
|                    | 16.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 16.2     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 16.3     | 95      |         |             | 16                       | <input type="checkbox"/> |                          |                          |  |
| 87747              | 16.4     |         |         |             |                          |                          |                          |                          |  |
|                    | 16.5     |         |         |             |                          |                          | D                        | 11,300                   |  |
|                    | 16.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    |          |         |         |             |                          | 16.6                     |                          | <input type="checkbox"/> |  |

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | 外径<br>Dc | 全長<br>L | 刃長<br>ℓ | シャンク径<br>Ds | 在庫<br>Stock              | 標準価格<br>(Yen)            |                          |                          |  |
|--------------------|----------|---------|---------|-------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
|                    | 16.7     | 95      | 40      | 16          | <input type="checkbox"/> |                          |                          |                          |  |
| 80727              | 16.8     |         |         |             |                          |                          |                          |                          |  |
|                    | 16.9     |         |         |             |                          | A                        | 7,430                    |                          |  |
|                    | 17       |         |         |             |                          | <input type="checkbox"/> |                          |                          |  |
|                    | 17.1     |         |         |             |                          | <input type="checkbox"/> |                          |                          |  |
|                    | 17.2     | 95      | 40      |             | 16                       | <input type="checkbox"/> |                          |                          |  |
| 87748              | 17.3     |         |         |             |                          |                          |                          |                          |  |
|                    | 17.4     |         |         |             |                          |                          | D                        | 11,300                   |  |
|                    | 17.5     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 17.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 17.7     | 110     | 45      | 20          |                          | <input type="checkbox"/> |                          |                          |  |
| 80728              | 17.8     |         |         |             |                          |                          |                          |                          |  |
|                    | 17.9     |         |         |             |                          |                          | A                        | 7,430                    |  |
|                    | 18       |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 18.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 18.2     | 110     | 45      |             | 20                       | <input type="checkbox"/> |                          |                          |  |
| 87749              | 18.3     |         |         |             |                          |                          |                          |                          |  |
|                    | 18.4     |         |         |             |                          |                          | D                        | 13,600                   |  |
|                    | 18.5     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 18.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 18.7     | 110     | 45      | 20          |                          | <input type="checkbox"/> |                          |                          |  |
| 80729              | 18.8     |         |         |             |                          |                          |                          |                          |  |
|                    | 18.9     |         |         |             |                          |                          | A                        | 8,880                    |  |
|                    | 19       |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 19.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 19.2     | 110     | 45      |             | 20                       | <input type="checkbox"/> |                          |                          |  |
| 87750              | 19.3     |         |         |             |                          |                          |                          |                          |  |
|                    | 19.4     |         |         |             |                          |                          | D                        | 13,600                   |  |
|                    | 19.5     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 19.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 19.7     | 110     | 45      | 20          |                          | <input type="checkbox"/> |                          |                          |  |
| 80730              | 19.8     |         |         |             |                          |                          |                          |                          |  |
|                    | 19.9     |         |         |             |                          |                          | A                        | 8,880                    |  |
|                    | 20       |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 20.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 20.2     | 110     | 45      |             | 20                       | <input type="checkbox"/> |                          |                          |  |
| 87751              | 20.3     |         |         |             |                          |                          |                          |                          |  |
|                    | 20.4     |         |         |             |                          |                          | D                        | 16,800                   |  |
|                    | 20.5     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 20.6     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 20.7     | 110     | 45      | 20          |                          | <input type="checkbox"/> |                          |                          |  |
| 80731              | 20.8     |         |         |             |                          |                          |                          |                          |  |
|                    | 20.9     |         |         |             |                          |                          | A                        | 11,000                   |  |
|                    | 21       |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 21.1     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    | 21.2     | 110     | 45      |             | 20                       | <input type="checkbox"/> |                          |                          |  |
| 87752              | 21.3     |         |         |             |                          |                          |                          |                          |  |
|                    | 21.4     |         |         |             |                          |                          | D                        | 16,800                   |  |
|                    | 21.5     |         |         |             |                          |                          | <input type="checkbox"/> |                          |  |
|                    |          |         |         |             |                          | 21.5                     |                          | <input type="checkbox"/> |  |

切削油剤はP261をご参照下さい。Cutting Fluid:Please refer to P261.



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形状寸法表

HSS END MILLS

HSS Square Series

ハイスクエアシリーズ



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|                               |                     |                               |                            |                              |                          |                          |                          |                               |                   |
|-------------------------------|---------------------|-------------------------------|----------------------------|------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------|-------------------|
| 炭素鋼<br>CARBON STEELS          | 合金鋼<br>ALLOY STEELS | プリハードン鋼<br>PREHARDENED STEELS | ステンレス鋼<br>STAINLESS STEELS | 鋳鉄<br>CAST IRON              | 銅合金<br>COPPER ALLOYS     | アルミ合金<br>ALUMINUM ALLOYS | チタン合金<br>TITANIUM ALLOYS | 耐熱合金<br>HEAT RESISTANT ALLOYS | プラスチック<br>PLASTIC |
| プリハードン鋼<br>PREHARDENED STEELS | 工具鋼<br>TOOL STEELS  | 焼き入れ鋼<br>HARDENED STEELS      |                            | ダクタイル鋳鉄<br>DUCTILE CAST IRON |                          |                          |                          |                               |                   |
| ~40HRC                        |                     | ~45HRC                        | ~35HRC                     | ~350HB                       |                          |                          |                          |                               |                   |
| <input type="checkbox"/>      |                     |                               | <input type="checkbox"/>   | <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> |                          |                               |                   |

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=特定代理店在庫品 =Stocked by specific distributors. Contact us for price & availability.

ハイススクエアシリーズ HSS Square Series

4刃 センタカット ショート

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CC-EMS



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前ページより

形状寸法表

HSS END MILLS

HSS Square Series

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | 外径<br>Dc | 全長<br>L | 刃長<br>ℓ | シャンク径<br>Ds | 在庫<br>Stock | 標準価格<br>(Yen) |   |        |
|--------------------|----------|---------|---------|-------------|-------------|---------------|---|--------|
|                    | 21.6     | 110     | 45      | 20          | □           |               |   |        |
|                    | 21.7     |         |         |             |             |               |   |        |
|                    | 21.8     |         |         |             |             |               |   |        |
|                    | 21.9     |         |         |             |             |               |   |        |
| 80732              | 22       |         |         |             |             |               | A | 11,000 |
|                    | 22.1     |         |         |             |             |               |   |        |
|                    | 22.2     |         |         |             |             |               |   |        |
|                    | 22.3     |         |         |             |             |               |   |        |
|                    | 22.4     |         |         |             |             |               |   |        |
| 87753              | 22.5     | D       | 19,400  |             |             |               |   |        |
|                    | 22.6     |         |         |             |             |               |   |        |
|                    | 22.7     |         |         |             |             |               |   |        |
|                    | 22.8     |         |         |             |             |               |   |        |
|                    | 22.9     |         |         |             |             |               |   |        |
| 80733              | 23       | A       | 12,800  |             |             |               |   |        |
|                    | 23.1     |         |         |             |             |               |   |        |
|                    | 23.2     |         |         |             |             |               |   |        |
|                    | 23.3     |         |         |             |             |               |   |        |
|                    | 23.4     |         |         |             |             |               |   |        |
| 87754              | 23.5     | D       | 19,400  |             |             |               |   |        |
|                    | 23.6     |         |         |             |             |               |   |        |
|                    | 23.7     |         |         |             |             |               |   |        |
|                    | 23.8     |         |         |             |             |               |   |        |
|                    | 23.9     |         |         |             |             |               |   |        |
| 80734              | 24       | A       | 12,800  |             |             |               |   |        |
|                    | 24.1     |         |         |             |             |               |   |        |
|                    | 24.2     |         |         |             |             |               |   |        |
|                    | 24.3     |         |         |             |             |               |   |        |
|                    | 24.4     |         |         |             |             |               |   |        |
| 87755              | 24.5     | D       | 19,400  |             |             |               |   |        |
|                    | 24.6     |         |         |             |             |               |   |        |
|                    | 24.7     |         |         |             |             |               |   |        |
|                    | 24.8     |         |         |             |             |               |   |        |
|                    | 24.9     |         |         |             |             |               |   |        |
| 80735              | 25       | A       | 12,800  |             |             |               |   |        |
|                    | 25.1     |         |         |             |             |               |   |        |
|                    | 25.2     |         |         |             |             |               |   |        |
|                    | 25.3     |         |         |             |             |               |   |        |
|                    | 25.4     |         |         |             |             |               |   |        |
| 87756              | 25.5     | D       | 20,600  |             |             |               |   |        |
|                    | 25.6     |         |         |             |             |               |   |        |
|                    | 25.7     |         |         |             |             |               |   |        |
|                    | 25.8     |         |         |             |             |               |   |        |
|                    | 25.9     |         |         |             |             |               |   |        |
| 80736              | 26       | A       | 13,600  |             |             |               |   |        |
|                    | 26.1     |         |         |             |             |               |   |        |
|                    | 26.2     |         |         |             |             |               |   |        |
|                    | 26.3     |         |         |             |             |               |   |        |

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | 外径<br>Dc | 全長<br>L | 刃長<br>ℓ | シャンク径<br>Ds | 在庫<br>Stock | 標準価格<br>(Yen) |   |        |
|--------------------|----------|---------|---------|-------------|-------------|---------------|---|--------|
|                    | 26.4     | 125     | 55      | 25          | □           |               |   |        |
| 87757              | 26.5     |         |         |             |             |               | D | 24,600 |
|                    | 26.6     |         |         |             |             |               |   |        |
|                    | 26.7     |         |         |             |             |               |   |        |
|                    | 26.8     |         |         |             |             |               |   |        |
|                    | 26.9     |         |         |             |             |               |   |        |
| 80737              | 27       |         |         |             |             |               | A | 16,200 |
|                    | 27.1     |         |         |             |             |               |   |        |
|                    | 27.2     |         |         |             |             |               |   |        |
|                    | 27.3     |         |         |             |             |               |   |        |
|                    | 27.4     |         |         |             |             |               |   |        |
| 87758              | 27.5     |         |         |             |             |               | D | 24,600 |
|                    | 27.6     |         |         |             |             |               |   |        |
|                    | 27.7     |         |         |             |             |               |   |        |
|                    | 27.8     |         |         |             |             |               |   |        |
|                    | 27.9     |         |         |             |             |               |   |        |
|                    | 28       |         |         |             |             |               |   |        |
|                    | 28.1     |         |         |             |             |               |   |        |
|                    | 28.2     |         |         |             |             |               |   |        |
|                    | 28.3     |         |         |             |             |               |   |        |
|                    | 28.4     |         |         |             |             |               |   |        |
| 87759              | 28.5     | D       | 29,700  |             |             |               |   |        |
|                    | 28.6     |         |         |             |             |               |   |        |
|                    | 28.7     |         |         |             |             |               |   |        |
|                    | 28.8     |         |         |             |             |               |   |        |
|                    | 28.9     |         |         |             |             |               |   |        |
| 80739              | 29       | A       | 19,600  |             |             |               |   |        |
|                    | 29.1     |         |         |             |             |               |   |        |
|                    | 29.2     |         |         |             |             |               |   |        |
|                    | 29.3     |         |         |             |             |               |   |        |
|                    | 29.4     |         |         |             |             |               |   |        |
| 87760              | 29.5     | D       | 29,700  |             |             |               |   |        |
|                    | 29.6     |         |         |             |             |               |   |        |
|                    | 29.7     |         |         |             |             |               |   |        |
|                    | 29.8     |         |         |             |             |               |   |        |
|                    | 29.9     |         |         |             |             |               |   |        |
| 80740              | 30       | 145     | 60      | 32          | A           | 19,600        |   |        |
| 80741              | 31       |         |         |             |             | 23,900        |   |        |
| 80742              | 32       |         |         |             |             | 23,900        |   |        |
| 80743              | 33       |         |         |             |             | 28,200        |   |        |
| 80744              | 34       |         |         |             |             | 28,200        |   |        |
| 80745              | 35       |         |         |             |             | 28,200        |   |        |
| 80746              | 36       |         |         |             |             | 32,100        |   |        |
| 80747              | 37       |         |         |             |             | 34,400        |   |        |
| 80748              | 38       |         |         |             |             | 34,400        |   |        |
| 80749              | 39       |         |         |             |             | 40,000        |   |        |
| 80750              | 40       |         |         |             |             | 40,000        |   |        |

◆は2面平切り欠け付きシャンクです。 ◆ : Shank with two flat face.

切削油剤はP261をご参照下さい。 Cutting Fluid:Please refer to P261.

| 炭素鋼<br>CARBON STEELS          | 合金鋼<br>ALLOY STEELS | プリハードン鋼<br>PREHARDENED STEELS | ステンレス鋼<br>STAINLESS STEELS | 鋳鉄<br>CAST IRON              | 銅合金<br>COPPER ALLOYS | アルミ合金<br>ALUMINUM ALLOYS | チタン合金<br>TITANIUM ALLOYS | 耐熱合金<br>HEAT RESISTANT ALLOYS | プラスチック<br>PLASTIC |
|-------------------------------|---------------------|-------------------------------|----------------------------|------------------------------|----------------------|--------------------------|--------------------------|-------------------------------|-------------------|
| プリハードン鋼<br>PREHARDENED STEELS | 工具鋼<br>TOOL STEELS  | 焼き入れ鋼<br>HARDENED STEELS      |                            | ダクタイル鋳鉄<br>DUCTILE CAST IRON |                      |                          |                          |                               |                   |
| ~40HRC                        |                     | ~45HRC                        | ~35HRC                     | ~350HB                       |                      |                          |                          |                               |                   |
| ○                             |                     |                               | ○                          | ○                            | ○                    | ○                        |                          |                               |                   |

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.

□=特定代理店在庫品 □=Stocked by specific distributors. Contact us for price & availability.