

# KSR-2

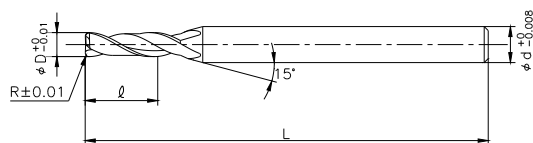
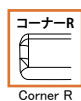
## 超硬2枚刃コーナーR付エンドミル Tungsten Carbide 2 Flutes Corner R Endmill

■コーナーRを用途に合わせてきめ細かく揃えました

Line-uped various sizes according to the use

■刃径をφ1～φ6まで0.1とびにラインナップ

Line-uped φ1～φ6 at pitch 0.1



| 被削材 Workpiece                     |                     |                                   |                             |                 |                         |
|-----------------------------------|---------------------|-----------------------------------|-----------------------------|-----------------|-------------------------|
| 一般構造鋼<br>General Structural Steel | 炭素鋼<br>Carbon Steel | 合金鋼・工具鋼<br>Alloy Steel Tool Steel | プリハートン鋼<br>Pre-Harden Steel | 鋳鉄<br>Cast Iron | アルミ合金<br>Aluminum Alloy |
| ○                                 | ○                   | ○                                 | ○                           | ○               | ○                       |

●切削条件表はP209に記載

●Cutting conditions are recommended on page 209.

単位 [寸法:mm]

Unit [size:mm]

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-210010R    | 1                      | R0.1               | 3                    | 40                   | 4                      |
| KSR-210015R    | 1                      | R0.15              | 3                    | 40                   | 4                      |
| KSR-210020R    | 1                      | R0.2               | 3                    | 40                   | 4                      |
| KSR-210025R    | 1                      | R0.25              | 3                    | 40                   | 4                      |
| KSR-210030R    | 1                      | R0.3               | 3                    | 40                   | 4                      |
| KSR-211010R    | 1.1                    | R0.1               | 3                    | 40                   | 4                      |
| KSR-211015R    | 1.1                    | R0.15              | 3                    | 40                   | 4                      |
| KSR-211020R    | 1.1                    | R0.2               | 3                    | 40                   | 4                      |
| KSR-211025R    | 1.1                    | R0.25              | 3                    | 40                   | 4                      |
| KSR-211030R    | 1.1                    | R0.3               | 3                    | 40                   | 4                      |
| KSR-212010R    | 1.2                    | R0.1               | 3                    | 40                   | 4                      |
| KSR-212015R    | 1.2                    | R0.15              | 3                    | 40                   | 4                      |
| KSR-212020R    | 1.2                    | R0.2               | 3                    | 40                   | 4                      |
| KSR-212025R    | 1.2                    | R0.25              | 3                    | 40                   | 4                      |
| KSR-212030R    | 1.2                    | R0.3               | 3                    | 40                   | 4                      |
| KSR-213010R    | 1.3                    | R0.1               | 3                    | 40                   | 4                      |
| KSR-213015R    | 1.3                    | R0.15              | 3                    | 40                   | 4                      |
| KSR-213020R    | 1.3                    | R0.2               | 3                    | 40                   | 4                      |
| KSR-213025R    | 1.3                    | R0.25              | 3                    | 40                   | 4                      |
| KSR-213030R    | 1.3                    | R0.3               | 3                    | 40                   | 4                      |
| KSR-214010R    | 1.4                    | R0.1               | 3                    | 40                   | 4                      |
| KSR-214015R    | 1.4                    | R0.15              | 3                    | 40                   | 4                      |
| KSR-214020R    | 1.4                    | R0.2               | 3                    | 40                   | 4                      |
| KSR-214025R    | 1.4                    | R0.25              | 3                    | 40                   | 4                      |
| KSR-214030R    | 1.4                    | R0.3               | 3                    | 40                   | 4                      |
| KSR-215010R    | 1.5                    | R0.1               | 4                    | 40                   | 4                      |
| KSR-215015R    | 1.5                    | R0.15              | 4                    | 40                   | 4                      |
| KSR-215020R    | 1.5                    | R0.2               | 4                    | 40                   | 4                      |
| KSR-215025R    | 1.5                    | R0.25              | 4                    | 40                   | 4                      |
| KSR-215030R    | 1.5                    | R0.3               | 4                    | 40                   | 4                      |

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-216010R    | 1.6                    | R0.1               | 4                    | 40                   | 4                      |
| KSR-216015R    | 1.6                    | R0.15              | 4                    | 40                   | 4                      |
| KSR-216020R    | 1.6                    | R0.2               | 4                    | 40                   | 4                      |
| KSR-216025R    | 1.6                    | R0.25              | 4                    | 40                   | 4                      |
| KSR-216030R    | 1.6                    | R0.3               | 4                    | 40                   | 4                      |
| KSR-217010R    | 1.7                    | R0.1               | 4                    | 40                   | 4                      |
| KSR-217015R    | 1.7                    | R0.15              | 4                    | 40                   | 4                      |
| KSR-217020R    | 1.7                    | R0.2               | 4                    | 40                   | 4                      |
| KSR-217025R    | 1.7                    | R0.25              | 4                    | 40                   | 4                      |
| KSR-217030R    | 1.7                    | R0.3               | 4                    | 40                   | 4                      |
| KSR-218010R    | 1.8                    | R0.1               | 4                    | 40                   | 4                      |
| KSR-218015R    | 1.8                    | R0.15              | 4                    | 40                   | 4                      |
| KSR-218020R    | 1.8                    | R0.2               | 4                    | 40                   | 4                      |
| KSR-218025R    | 1.8                    | R0.25              | 4                    | 40                   | 4                      |
| KSR-218030R    | 1.8                    | R0.3               | 4                    | 40                   | 4                      |
| KSR-219010R    | 1.9                    | R0.1               | 4                    | 40                   | 4                      |
| KSR-219015R    | 1.9                    | R0.15              | 4                    | 40                   | 4                      |
| KSR-219020R    | 1.9                    | R0.2               | 4                    | 40                   | 4                      |
| KSR-219025R    | 1.9                    | R0.25              | 4                    | 40                   | 4                      |
| KSR-219030R    | 1.9                    | R0.3               | 4                    | 40                   | 4                      |
| KSR-220010R    | 2                      | R0.1               | 6                    | 40                   | 4                      |
| KSR-220015R    | 2                      | R0.15              | 6                    | 40                   | 4                      |
| KSR-220020R    | 2                      | R0.2               | 6                    | 40                   | 4                      |
| KSR-220025R    | 2                      | R0.25              | 6                    | 40                   | 4                      |
| KSR-220030R    | 2                      | R0.3               | 6                    | 40                   | 4                      |
| KSR-220035R    | 2                      | R0.35              | 6                    | 40                   | 4                      |
| KSR-220040R    | 2                      | R0.4               | 6                    | 40                   | 4                      |
| KSR-220045R    | 2                      | R0.45              | 6                    | 40                   | 4                      |
| KSR-220050R    | 2                      | R0.5               | 6                    | 40                   | 4                      |
| KSR-221010R    | 2.1                    | R0.1               | 6                    | 40                   | 4                      |

超硬エンドミル

Carbide Endmill

# KSR-2

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-221015R    | 2.1                    | R0.15              | 6                    | 40                   | 4                      |
| KSR-221020R    | 2.1                    | R0.2               | 6                    | 40                   | 4                      |
| KSR-221025R    | 2.1                    | R0.25              | 6                    | 40                   | 4                      |
| KSR-221030R    | 2.1                    | R0.3               | 6                    | 40                   | 4                      |
| KSR-221035R    | 2.1                    | R0.35              | 6                    | 40                   | 4                      |
| KSR-221040R    | 2.1                    | R0.4               | 6                    | 40                   | 4                      |
| KSR-221050R    | 2.1                    | R0.5               | 6                    | 40                   | 4                      |
| KSR-222010R    | 2.2                    | R0.1               | 6                    | 40                   | 4                      |
| KSR-222015R    | 2.2                    | R0.15              | 6                    | 40                   | 4                      |
| KSR-222020R    | 2.2                    | R0.2               | 6                    | 40                   | 4                      |
| KSR-222025R    | 2.2                    | R0.25              | 6                    | 40                   | 4                      |
| KSR-222030R    | 2.2                    | R0.3               | 6                    | 40                   | 4                      |
| KSR-222035R    | 2.2                    | R0.35              | 6                    | 40                   | 4                      |
| KSR-222040R    | 2.2                    | R0.4               | 6                    | 40                   | 4                      |
| KSR-222050R    | 2.2                    | R0.5               | 6                    | 40                   | 4                      |
| KSR-223010R    | 2.3                    | R0.1               | 6                    | 40                   | 4                      |
| KSR-223015R    | 2.3                    | R0.15              | 6                    | 40                   | 4                      |
| KSR-223020R    | 2.3                    | R0.2               | 6                    | 40                   | 4                      |
| KSR-223025R    | 2.3                    | R0.25              | 6                    | 40                   | 4                      |
| KSR-223030R    | 2.3                    | R0.3               | 6                    | 40                   | 4                      |
| KSR-223035R    | 2.3                    | R0.35              | 6                    | 40                   | 4                      |
| KSR-223040R    | 2.3                    | R0.4               | 6                    | 40                   | 4                      |
| KSR-223050R    | 2.3                    | R0.5               | 6                    | 40                   | 4                      |
| KSR-224010R    | 2.4                    | R0.1               | 6                    | 40                   | 4                      |
| KSR-224015R    | 2.4                    | R0.15              | 6                    | 40                   | 4                      |
| KSR-224020R    | 2.4                    | R0.2               | 6                    | 40                   | 4                      |
| KSR-224025R    | 2.4                    | R0.25              | 6                    | 40                   | 4                      |
| KSR-224030R    | 2.4                    | R0.3               | 6                    | 40                   | 4                      |
| KSR-224035R    | 2.4                    | R0.35              | 6                    | 40                   | 4                      |
| KSR-224040R    | 2.4                    | R0.4               | 6                    | 40                   | 4                      |
| KSR-224050R    | 2.4                    | R0.5               | 6                    | 40                   | 4                      |
| KSR-225010R    | 2.5                    | R0.1               | 8                    | 40                   | 4                      |
| KSR-225015R    | 2.5                    | R0.15              | 8                    | 40                   | 4                      |
| KSR-225020R    | 2.5                    | R0.2               | 8                    | 40                   | 4                      |
| KSR-225025R    | 2.5                    | R0.25              | 8                    | 40                   | 4                      |
| KSR-225030R    | 2.5                    | R0.3               | 8                    | 40                   | 4                      |
| KSR-225035R    | 2.5                    | R0.35              | 8                    | 40                   | 4                      |
| KSR-225040R    | 2.5                    | R0.4               | 8                    | 40                   | 4                      |
| KSR-225045R    | 2.5                    | R0.45              | 8                    | 40                   | 4                      |
| KSR-225050R    | 2.5                    | R0.5               | 8                    | 40                   | 4                      |
| KSR-226010R    | 2.6                    | R0.1               | 8                    | 40                   | 4                      |
| KSR-226015R    | 2.6                    | R0.15              | 8                    | 40                   | 4                      |
| KSR-226020R    | 2.6                    | R0.2               | 8                    | 40                   | 4                      |
| KSR-226025R    | 2.6                    | R0.25              | 8                    | 40                   | 4                      |
| KSR-226030R    | 2.6                    | R0.3               | 8                    | 40                   | 4                      |
| KSR-226035R    | 2.6                    | R0.35              | 8                    | 40                   | 4                      |
| KSR-226040R    | 2.6                    | R0.4               | 8                    | 40                   | 4                      |
| KSR-226050R    | 2.6                    | R0.5               | 8                    | 40                   | 4                      |

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-227010R    | 2.7                    | R0.1               | 8                    | 40                   | 4                      |
| KSR-227015R    | 2.7                    | R0.15              | 8                    | 40                   | 4                      |
| KSR-227020R    | 2.7                    | R0.2               | 8                    | 40                   | 4                      |
| KSR-227025R    | 2.7                    | R0.25              | 8                    | 40                   | 4                      |
| KSR-227030R    | 2.7                    | R0.3               | 8                    | 40                   | 4                      |
| KSR-227035R    | 2.7                    | R0.35              | 8                    | 40                   | 4                      |
| KSR-227040R    | 2.7                    | R0.4               | 8                    | 40                   | 4                      |
| KSR-227050R    | 2.7                    | R0.5               | 8                    | 40                   | 4                      |
| KSR-228010R    | 2.8                    | R0.1               | 8                    | 40                   | 4                      |
| KSR-228015R    | 2.8                    | R0.15              | 8                    | 40                   | 4                      |
| KSR-228020R    | 2.8                    | R0.2               | 8                    | 40                   | 4                      |
| KSR-228025R    | 2.8                    | R0.25              | 8                    | 40                   | 4                      |
| KSR-228030R    | 2.8                    | R0.3               | 8                    | 40                   | 4                      |
| KSR-228035R    | 2.8                    | R0.35              | 8                    | 40                   | 4                      |
| KSR-228040R    | 2.8                    | R0.4               | 8                    | 40                   | 4                      |
| KSR-228050R    | 2.8                    | R0.5               | 8                    | 40                   | 4                      |
| KSR-229010R    | 2.9                    | R0.1               | 8                    | 40                   | 4                      |
| KSR-229015R    | 2.9                    | R0.15              | 8                    | 40                   | 4                      |
| KSR-229020R    | 2.9                    | R0.2               | 8                    | 40                   | 4                      |
| KSR-229025R    | 2.9                    | R0.25              | 8                    | 40                   | 4                      |
| KSR-229030R    | 2.9                    | R0.3               | 8                    | 40                   | 4                      |
| KSR-229035R    | 2.9                    | R0.35              | 8                    | 40                   | 4                      |
| KSR-229040R    | 2.9                    | R0.4               | 8                    | 40                   | 4                      |
| KSR-229050R    | 2.9                    | R0.5               | 8                    | 40                   | 4                      |
| KSR-230010R    | 3                      | R0.1               | 8                    | 45                   | 6                      |
| KSR-230015R    | 3                      | R0.15              | 8                    | 45                   | 6                      |
| KSR-230020R    | 3                      | R0.2               | 8                    | 45                   | 6                      |
| KSR-230025R    | 3                      | R0.25              | 8                    | 45                   | 6                      |
| KSR-230030R    | 3                      | R0.3               | 8                    | 45                   | 6                      |
| KSR-230035R    | 3                      | R0.35              | 8                    | 45                   | 6                      |
| KSR-230040R    | 3                      | R0.4               | 8                    | 45                   | 6                      |
| KSR-230045R    | 3                      | R0.45              | 8                    | 45                   | 6                      |
| KSR-230050R    | 3                      | R0.5               | 8                    | 45                   | 6                      |
| KSR-230075R    | 3                      | R0.75              | 8                    | 45                   | 6                      |
| KSR-230100R    | 3                      | R1                 | 8                    | 45                   | 6                      |
| KSR-231010R    | 3.1                    | R0.1               | 8                    | 45                   | 6                      |
| KSR-231015R    | 3.1                    | R0.15              | 8                    | 45                   | 6                      |
| KSR-231020R    | 3.1                    | R0.2               | 8                    | 45                   | 6                      |
| KSR-231025R    | 3.1                    | R0.25              | 8                    | 45                   | 6                      |
| KSR-231030R    | 3.1                    | R0.3               | 8                    | 45                   | 6                      |
| KSR-231035R    | 3.1                    | R0.35              | 8                    | 45                   | 6                      |
| KSR-231040R    | 3.1                    | R0.4               | 8                    | 45                   | 6                      |
| KSR-231050R    | 3.1                    | R0.5               | 8                    | 45                   | 6                      |
| KSR-231075R    | 3.1                    | R0.75              | 8                    | 45                   | 6                      |
| KSR-231100R    | 3.1                    | R1                 | 8                    | 45                   | 6                      |
| KSR-232010R    | 3.2                    | R0.1               | 8                    | 45                   | 6                      |
| KSR-232015R    | 3.2                    | R0.15              | 8                    | 45                   | 6                      |
| KSR-232020R    | 3.2                    | R0.2               | 8                    | 45                   | 6                      |

# KSR-2

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナーR<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|-------------------|----------------------|----------------------|------------------------|
| KSR-232025R    | 3.2                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-232030R    | 3.2                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-232035R    | 3.2                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-232040R    | 3.2                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-232050R    | 3.2                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-232075R    | 3.2                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-232100R    | 3.2                    | R1                | 8                    | 45                   | 6                      |
| KSR-233010R    | 3.3                    | R0.1              | 8                    | 45                   | 6                      |
| KSR-233015R    | 3.3                    | R0.15             | 8                    | 45                   | 6                      |
| KSR-233020R    | 3.3                    | R0.2              | 8                    | 45                   | 6                      |
| KSR-233025R    | 3.3                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-233030R    | 3.3                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-233035R    | 3.3                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-233040R    | 3.3                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-233050R    | 3.3                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-233075R    | 3.3                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-233100R    | 3.3                    | R1                | 8                    | 45                   | 6                      |
| KSR-234010R    | 3.4                    | R0.1              | 8                    | 45                   | 6                      |
| KSR-234015R    | 3.4                    | R0.15             | 8                    | 45                   | 6                      |
| KSR-234020R    | 3.4                    | R0.2              | 8                    | 45                   | 6                      |
| KSR-234025R    | 3.4                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-234030R    | 3.4                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-234035R    | 3.4                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-234040R    | 3.4                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-234050R    | 3.4                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-234075R    | 3.4                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-234100R    | 3.4                    | R1                | 8                    | 45                   | 6                      |
| KSR-235010R    | 3.5                    | R0.1              | 8                    | 45                   | 6                      |
| KSR-235015R    | 3.5                    | R0.15             | 8                    | 45                   | 6                      |
| KSR-235020R    | 3.5                    | R0.2              | 8                    | 45                   | 6                      |
| KSR-235025R    | 3.5                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-235030R    | 3.5                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-235035R    | 3.5                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-235040R    | 3.5                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-235050R    | 3.5                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-235075R    | 3.5                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-235100R    | 3.5                    | R1                | 8                    | 45                   | 6                      |
| KSR-236010R    | 3.6                    | R0.1              | 8                    | 45                   | 6                      |
| KSR-236015R    | 3.6                    | R0.15             | 8                    | 45                   | 6                      |
| KSR-236020R    | 3.6                    | R0.2              | 8                    | 45                   | 6                      |
| KSR-236025R    | 3.6                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-236030R    | 3.6                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-236035R    | 3.6                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-236040R    | 3.6                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-236050R    | 3.6                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-236075R    | 3.6                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-236100R    | 3.6                    | R1                | 8                    | 45                   | 6                      |
| KSR-237010R    | 3.7                    | R0.1              | 8                    | 45                   | 6                      |

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナーR<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|-------------------|----------------------|----------------------|------------------------|
| KSR-237015R    | 3.7                    | R0.15             | 8                    | 45                   | 6                      |
| KSR-237020R    | 3.7                    | R0.2              | 8                    | 45                   | 6                      |
| KSR-237025R    | 3.7                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-237030R    | 3.7                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-237035R    | 3.7                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-237040R    | 3.7                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-237050R    | 3.7                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-237075R    | 3.7                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-237100R    | 3.7                    | R1                | 8                    | 45                   | 6                      |
| KSR-238010R    | 3.8                    | R0.1              | 8                    | 45                   | 6                      |
| KSR-238015R    | 3.8                    | R0.15             | 8                    | 45                   | 6                      |
| KSR-238020R    | 3.8                    | R0.2              | 8                    | 45                   | 6                      |
| KSR-238025R    | 3.8                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-238030R    | 3.8                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-238035R    | 3.8                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-238040R    | 3.8                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-238050R    | 3.8                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-238075R    | 3.8                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-238100R    | 3.8                    | R1                | 8                    | 45                   | 6                      |
| KSR-239010R    | 3.9                    | R0.1              | 8                    | 45                   | 6                      |
| KSR-239015R    | 3.9                    | R0.15             | 8                    | 45                   | 6                      |
| KSR-239020R    | 3.9                    | R0.2              | 8                    | 45                   | 6                      |
| KSR-239025R    | 3.9                    | R0.25             | 8                    | 45                   | 6                      |
| KSR-239030R    | 3.9                    | R0.3              | 8                    | 45                   | 6                      |
| KSR-239035R    | 3.9                    | R0.35             | 8                    | 45                   | 6                      |
| KSR-239040R    | 3.9                    | R0.4              | 8                    | 45                   | 6                      |
| KSR-239050R    | 3.9                    | R0.5              | 8                    | 45                   | 6                      |
| KSR-239075R    | 3.9                    | R0.75             | 8                    | 45                   | 6                      |
| KSR-239100R    | 3.9                    | R1                | 8                    | 45                   | 6                      |
| KSR-240010R    | 4                      | R0.1              | 11                   | 45                   | 6                      |
| KSR-240015R    | 4                      | R0.15             | 11                   | 45                   | 6                      |
| KSR-240020R    | 4                      | R0.2              | 11                   | 45                   | 6                      |
| KSR-240025R    | 4                      | R0.25             | 11                   | 45                   | 6                      |
| KSR-240030R    | 4                      | R0.3              | 11                   | 45                   | 6                      |
| KSR-240035R    | 4                      | R0.35             | 11                   | 45                   | 6                      |
| KSR-240040R    | 4                      | R0.4              | 11                   | 45                   | 6                      |
| KSR-240045R    | 4                      | R0.45             | 11                   | 45                   | 6                      |
| KSR-240050R    | 4                      | R0.5              | 11                   | 45                   | 6                      |
| KSR-240075R    | 4                      | R0.75             | 11                   | 45                   | 6                      |
| KSR-240100R    | 4                      | R1                | 11                   | 45                   | 6                      |
| KSR-241010R    | 4.1                    | R0.1              | 11                   | 45                   | 6                      |
| KSR-241015R    | 4.1                    | R0.15             | 11                   | 45                   | 6                      |
| KSR-241020R    | 4.1                    | R0.2              | 11                   | 45                   | 6                      |
| KSR-241025R    | 4.1                    | R0.25             | 11                   | 45                   | 6                      |
| KSR-241030R    | 4.1                    | R0.3              | 11                   | 45                   | 6                      |
| KSR-241035R    | 4.1                    | R0.35             | 11                   | 45                   | 6                      |
| KSR-241040R    | 4.1                    | R0.4              | 11                   | 45                   | 6                      |
| KSR-241050R    | 4.1                    | R0.5              | 11                   | 45                   | 6                      |

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| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-241075R    | 4.1                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-241100R    | 4.1                    | R1                 | 11                   | 45                   | 6                      |
| KSR-242010R    | 4.2                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-242015R    | 4.2                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-242020R    | 4.2                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-242025R    | 4.2                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-242030R    | 4.2                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-242035R    | 4.2                    | R0.35              | 11                   | 45                   | 6                      |
| KSR-242040R    | 4.2                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-242050R    | 4.2                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-242075R    | 4.2                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-242100R    | 4.2                    | R1                 | 11                   | 45                   | 6                      |
| KSR-243010R    | 4.3                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-243015R    | 4.3                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-243020R    | 4.3                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-243025R    | 4.3                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-243030R    | 4.3                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-243035R    | 4.3                    | R0.35              | 11                   | 45                   | 6                      |
| KSR-243040R    | 4.3                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-243050R    | 4.3                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-243075R    | 4.3                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-243100R    | 4.3                    | R1                 | 11                   | 45                   | 6                      |
| KSR-244010R    | 4.4                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-244015R    | 4.4                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-244020R    | 4.4                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-244025R    | 4.4                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-244030R    | 4.4                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-244035R    | 4.4                    | R0.35              | 11                   | 45                   | 6                      |
| KSR-244040R    | 4.4                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-244050R    | 4.4                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-244075R    | 4.4                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-244100R    | 4.4                    | R1                 | 11                   | 45                   | 6                      |
| KSR-245010R    | 4.5                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-245015R    | 4.5                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-245020R    | 4.5                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-245025R    | 4.5                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-245030R    | 4.5                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-245035R    | 4.5                    | R0.35              | 11                   | 45                   | 6                      |
| KSR-245040R    | 4.5                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-245050R    | 4.5                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-245075R    | 4.5                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-245100R    | 4.5                    | R1                 | 11                   | 45                   | 6                      |
| KSR-246010R    | 4.6                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-246015R    | 4.6                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-246020R    | 4.6                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-246025R    | 4.6                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-246030R    | 4.6                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-246035R    | 4.6                    | R0.35              | 11                   | 45                   | 6                      |

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-246040R    | 4.6                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-246050R    | 4.6                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-246075R    | 4.6                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-246100R    | 4.6                    | R1                 | 11                   | 45                   | 6                      |
| KSR-247010R    | 4.7                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-247015R    | 4.7                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-247020R    | 4.7                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-247025R    | 4.7                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-247030R    | 4.7                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-247035R    | 4.7                    | R0.35              | 11                   | 45                   | 6                      |
| KSR-247040R    | 4.7                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-247050R    | 4.7                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-247075R    | 4.7                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-247100R    | 4.7                    | R1                 | 11                   | 45                   | 6                      |
| KSR-248010R    | 4.8                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-248015R    | 4.8                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-248020R    | 4.8                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-248025R    | 4.8                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-248030R    | 4.8                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-248035R    | 4.8                    | R0.35              | 11                   | 45                   | 6                      |
| KSR-248040R    | 4.8                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-248050R    | 4.8                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-248075R    | 4.8                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-248100R    | 4.8                    | R1                 | 11                   | 45                   | 6                      |
| KSR-249010R    | 4.9                    | R0.1               | 11                   | 45                   | 6                      |
| KSR-249015R    | 4.9                    | R0.15              | 11                   | 45                   | 6                      |
| KSR-249020R    | 4.9                    | R0.2               | 11                   | 45                   | 6                      |
| KSR-249025R    | 4.9                    | R0.25              | 11                   | 45                   | 6                      |
| KSR-249030R    | 4.9                    | R0.3               | 11                   | 45                   | 6                      |
| KSR-249035R    | 4.9                    | R0.35              | 11                   | 45                   | 6                      |
| KSR-249040R    | 4.9                    | R0.4               | 11                   | 45                   | 6                      |
| KSR-249050R    | 4.9                    | R0.5               | 11                   | 45                   | 6                      |
| KSR-249075R    | 4.9                    | R0.75              | 11                   | 45                   | 6                      |
| KSR-249100R    | 4.9                    | R1                 | 11                   | 45                   | 6                      |
| KSR-250010R    | 5                      | R0.1               | 13                   | 50                   | 6                      |
| KSR-250015R    | 5                      | R0.15              | 13                   | 50                   | 6                      |
| KSR-250020R    | 5                      | R0.2               | 13                   | 50                   | 6                      |
| KSR-250025R    | 5                      | R0.25              | 13                   | 50                   | 6                      |
| KSR-250030R    | 5                      | R0.3               | 13                   | 50                   | 6                      |
| KSR-250035R    | 5                      | R0.35              | 13                   | 50                   | 6                      |
| KSR-250040R    | 5                      | R0.4               | 13                   | 50                   | 6                      |
| KSR-250050R    | 5                      | R0.5               | 13                   | 50                   | 6                      |
| KSR-250075R    | 5                      | R0.75              | 13                   | 50                   | 6                      |
| KSR-250100R    | 5                      | R1                 | 13                   | 50                   | 6                      |
| KSR-250125R    | 5                      | R1.25              | 13                   | 50                   | 6                      |
| KSR-250150R    | 5                      | R1.5               | 13                   | 50                   | 6                      |
| KSR-251010R    | 5.1                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-251015R    | 5.1                    | R0.15              | 13                   | 50                   | 6                      |

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| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-251020R    | 5.1                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-251025R    | 5.1                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-251030R    | 5.1                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-251035R    | 5.1                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-251040R    | 5.1                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-251050R    | 5.1                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-251075R    | 5.1                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-251100R    | 5.1                    | R1                 | 13                   | 50                   | 6                      |
| KSR-251125R    | 5.1                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-251150R    | 5.1                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-252010R    | 5.2                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-252015R    | 5.2                    | R0.15              | 13                   | 50                   | 6                      |
| KSR-252020R    | 5.2                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-252025R    | 5.2                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-252030R    | 5.2                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-252035R    | 5.2                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-252040R    | 5.2                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-252050R    | 5.2                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-252075R    | 5.2                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-252100R    | 5.2                    | R1                 | 13                   | 50                   | 6                      |
| KSR-252125R    | 5.2                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-252150R    | 5.2                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-253010R    | 5.3                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-253015R    | 5.3                    | R0.15              | 13                   | 50                   | 6                      |
| KSR-253020R    | 5.3                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-253025R    | 5.3                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-253030R    | 5.3                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-253035R    | 5.3                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-253040R    | 5.3                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-253050R    | 5.3                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-253075R    | 5.3                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-253100R    | 5.3                    | R1                 | 13                   | 50                   | 6                      |
| KSR-253125R    | 5.3                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-253150R    | 5.3                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-254010R    | 5.4                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-254015R    | 5.4                    | R0.15              | 13                   | 50                   | 6                      |
| KSR-254020R    | 5.4                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-254025R    | 5.4                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-254030R    | 5.4                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-254035R    | 5.4                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-254040R    | 5.4                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-254050R    | 5.4                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-254075R    | 5.4                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-254100R    | 5.4                    | R1                 | 13                   | 50                   | 6                      |
| KSR-254125R    | 5.4                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-254150R    | 5.4                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-255010R    | 5.5                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-255015R    | 5.5                    | R0.15              | 13                   | 50                   | 6                      |

| 品番<br>Code No. | 刃径 D<br>Flute Diameter | コーナー R<br>Corner R | 刃長 ℓ<br>Flute Length | 全長 L<br>Total Length | 柄径 d<br>Shank Diameter |
|----------------|------------------------|--------------------|----------------------|----------------------|------------------------|
| KSR-255020R    | 5.5                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-255025R    | 5.5                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-255030R    | 5.5                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-255035R    | 5.5                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-255040R    | 5.5                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-255050R    | 5.5                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-255075R    | 5.5                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-255100R    | 5.5                    | R1                 | 13                   | 50                   | 6                      |
| KSR-255125R    | 5.5                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-255150R    | 5.5                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-256010R    | 5.6                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-256015R    | 5.6                    | R0.15              | 13                   | 50                   | 6                      |
| KSR-256020R    | 5.6                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-256025R    | 5.6                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-256030R    | 5.6                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-256035R    | 5.6                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-256040R    | 5.6                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-256050R    | 5.6                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-256075R    | 5.6                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-256100R    | 5.6                    | R1                 | 13                   | 50                   | 6                      |
| KSR-256125R    | 5.6                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-256150R    | 5.6                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-257010R    | 5.7                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-257015R    | 5.7                    | R0.15              | 13                   | 50                   | 6                      |
| KSR-257020R    | 5.7                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-257025R    | 5.7                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-257030R    | 5.7                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-257035R    | 5.7                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-257040R    | 5.7                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-257050R    | 5.7                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-257075R    | 5.7                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-257100R    | 5.7                    | R1                 | 13                   | 50                   | 6                      |
| KSR-257125R    | 5.7                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-257150R    | 5.7                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-258010R    | 5.8                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-258015R    | 5.8                    | R0.15              | 13                   | 50                   | 6                      |
| KSR-258020R    | 5.8                    | R0.2               | 13                   | 50                   | 6                      |
| KSR-258025R    | 5.8                    | R0.25              | 13                   | 50                   | 6                      |
| KSR-258030R    | 5.8                    | R0.3               | 13                   | 50                   | 6                      |
| KSR-258035R    | 5.8                    | R0.35              | 13                   | 50                   | 6                      |
| KSR-258040R    | 5.8                    | R0.4               | 13                   | 50                   | 6                      |
| KSR-258050R    | 5.8                    | R0.5               | 13                   | 50                   | 6                      |
| KSR-258075R    | 5.8                    | R0.75              | 13                   | 50                   | 6                      |
| KSR-258100R    | 5.8                    | R1                 | 13                   | 50                   | 6                      |
| KSR-258125R    | 5.8                    | R1.25              | 13                   | 50                   | 6                      |
| KSR-258150R    | 5.8                    | R1.5               | 13                   | 50                   | 6                      |
| KSR-259010R    | 5.9                    | R0.1               | 13                   | 50                   | 6                      |
| KSR-259015R    | 5.9                    | R0.15              | 13                   | 50                   | 6                      |

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[illegible][illegible]

# KSR-2

## 切削条件参考

Referential Cutting Conditions



| 被削材<br>Workpiece            | 炭素鋼・一般構造用鋼<br>Carbon Steel・<br>General Structural Steel<br>S55C・SS材                                          |                        | 合金鋼・工具鋼<br>Alloy Steel・Tool Steel<br><br>SCM・SKT・SKS・SKD |                        | プリハードン鋼<br>Pre-Harden Steel<br><br>HPM-1・NAK55・SKT |                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------|------------------------|----------------------------------------------------|------------------------|
| 刃 径<br>Flute Diameter<br>mm | 回転数<br>Revolution<br>min <sup>-1</sup>                                                                       | 送り速度<br>Feed<br>mm/min | 回転数<br>Revolution<br>min <sup>-1</sup>                   | 送り速度<br>Feed<br>mm/min | 回転数<br>Revolution<br>min <sup>-1</sup>             | 送り速度<br>Feed<br>mm/min |
| 1                           | 16,000                                                                                                       | 70                     | 12,700                                                   | 65                     | 9,500                                              | 35                     |
| 1.5                         | 10,500                                                                                                       | 70                     | 8,500                                                    | 65                     | 6,300                                              | 35                     |
| 2                           | 8,000                                                                                                        | 95                     | 6,300                                                    | 75                     | 4,700                                              | 35                     |
| 2.5                         | 6,300                                                                                                        | 105                    | 5,100                                                    | 85                     | 3,800                                              | 35                     |
| 3                           | 5,300                                                                                                        | 120                    | 4,200                                                    | 90                     | 3,200                                              | 35                     |
| 4                           | 4,000                                                                                                        | 120                    | 3,200                                                    | 90                     | 2,300                                              | 40                     |
| 6                           | 2,600                                                                                                        | 120                    | 2,100                                                    | 90                     | 1,600                                              | 40                     |
| 備 考<br>Remarks              | ・回転数と送り速度は同じ割合で調整して下さい。・Adjust Revolution and Feed Speed at the same rate.<br>・切削油を使用して下さい。・Use Cutting Oil. |                        |                                                          |                        |                                                    |                        |