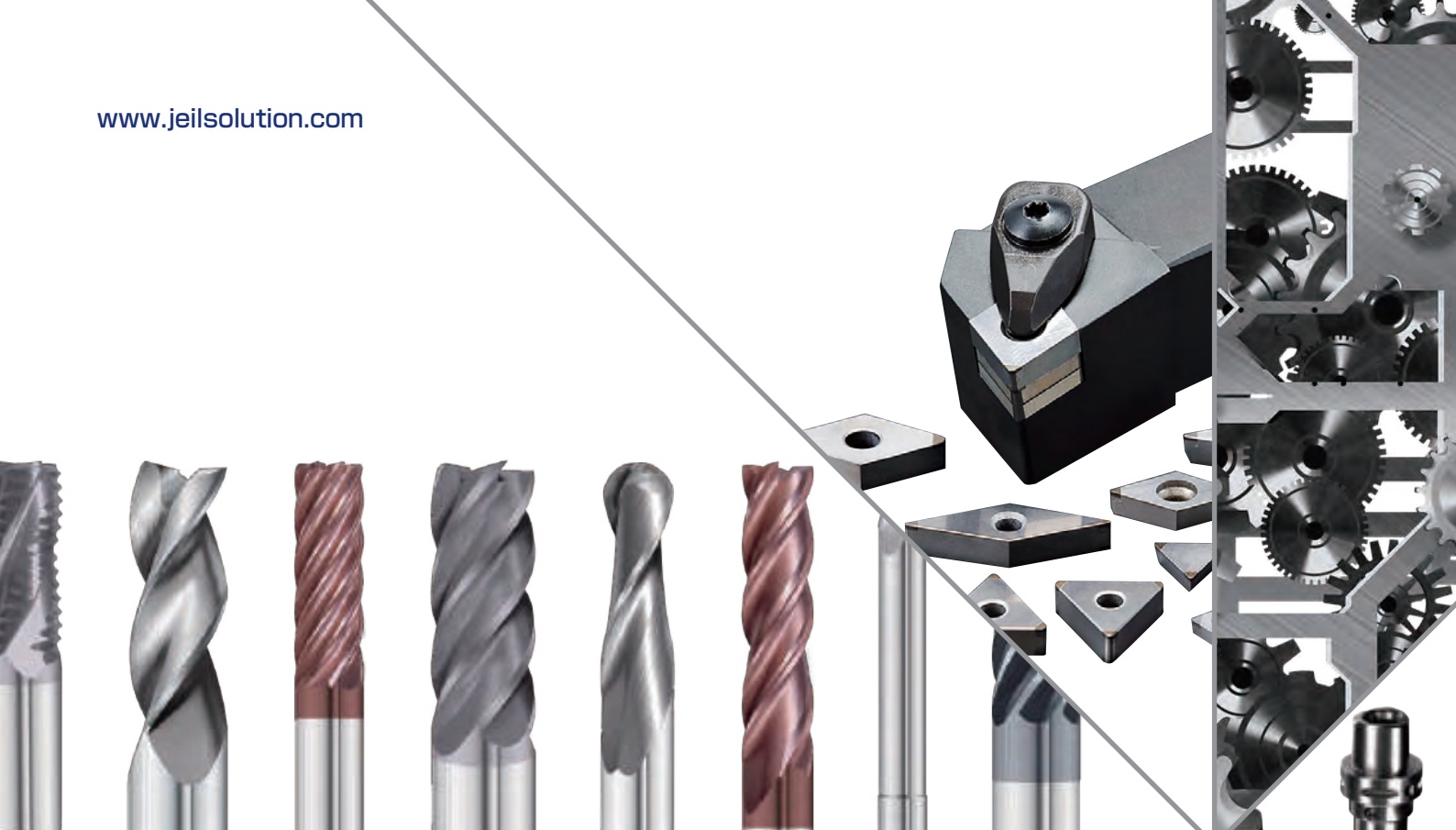




The Most advanced Technics

JEIL SOLUTION CUTTING TOOLS

Vol.1

The Most advanced Technics
JEIL SOLUTION CUTTING TOOLS





 JEIL Solution

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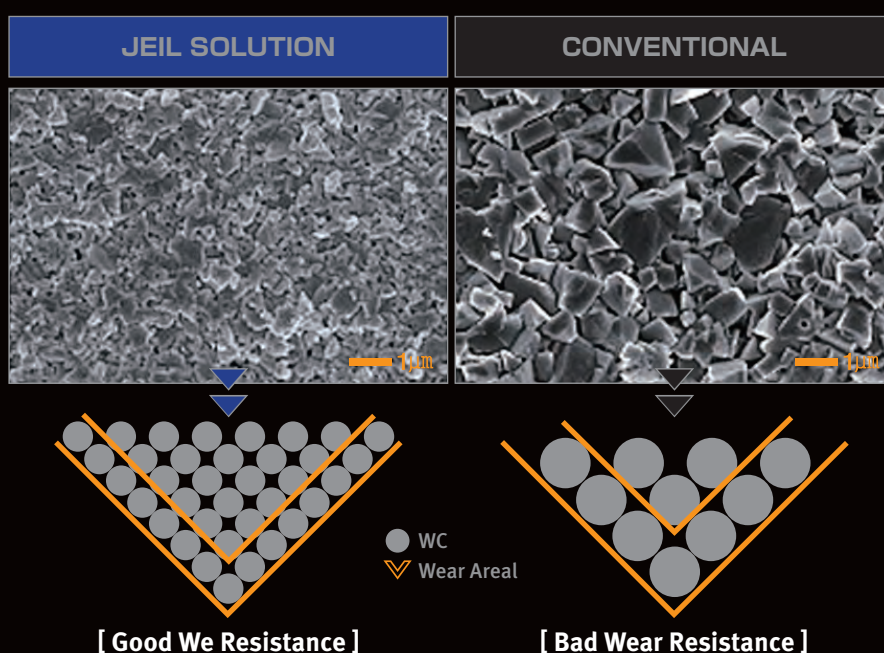
Introduction of Material Technology

Specialized in difficult-to-cut materials

- Excellent hardness, toughness, wear resistance by nano WC size
- Suitable for aerospace and automobile

Features of difficult-to-cut materials machining

- **HRSA** : Tool temperature increases due to low thermal conductivity
→ Surface, Internal, Mechanical defects.
- **High hardened steel** : Characteristic of material with high hardness and toughness
→ High cutting resistance & high cutting load.





JEIL SOLUTION GROOVING CUTTING INSERT

**Applying stable clamping system,
guaranteed high quality
and efficiency machining**

- Stable clamping system for specially designed grooving machining
- Various machining available (grooving, parting off, turning)
- High quality and high efficiency machining in aerospace and automobile industry

JEIL SOLUTION Chip Breaker Features

Chip Breaker

- Machining type
- Grooving / Turning Parting off
- Work piece
- P, M, S group

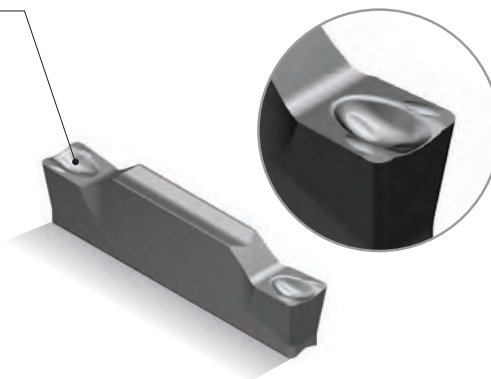


• Features

- Sharp edge
- Low cutting force
- Prevent built up edge

Chip Breaker

- Machining type
- Grooving / Turning
- Parting off
- Work piece
- P, M, S group

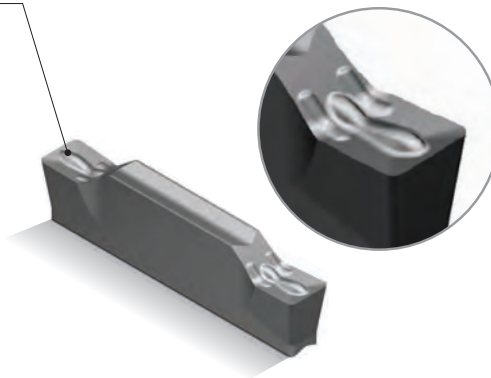


• Features

- Various machining type
- Excellent tool life
- Enhanced chip control

Chip Breaker

- Machining type
- Grooving / Turning Parting off
- Work piece
- P, M, S group

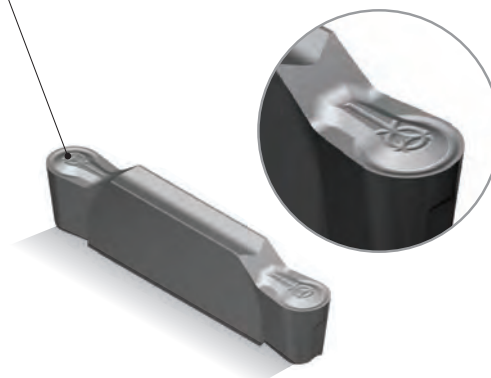


• Features

- Various machining type
- Excellent tool life
- Enhanced chip control
- Full Radius for profiling

Chip Breaker

- Machining type
- Profiling / Undercut
- Work piece
- P, M, S group

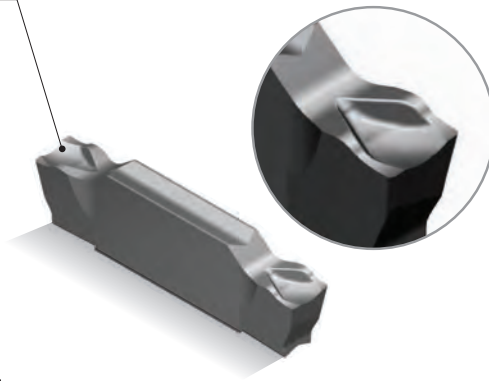


• Features

- Sharp edge
- Low cutting force
- Prevent built up edge

Chip Breaker

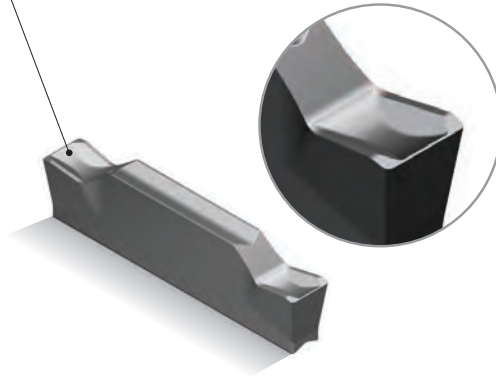
- Machining type
- Parting off
- Work piece
- P, M, S group



- **Features**
 - Sharp edge
 - Low cutting force
 - Enhanced chip control

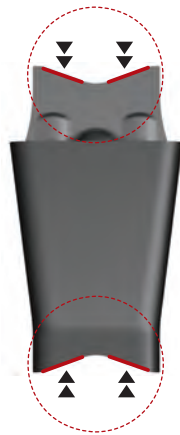
Chip Breaker

- Machining type
- Grooving / Turning Parting off
- P, M, S group
- Work piece
- P, M, K, S group



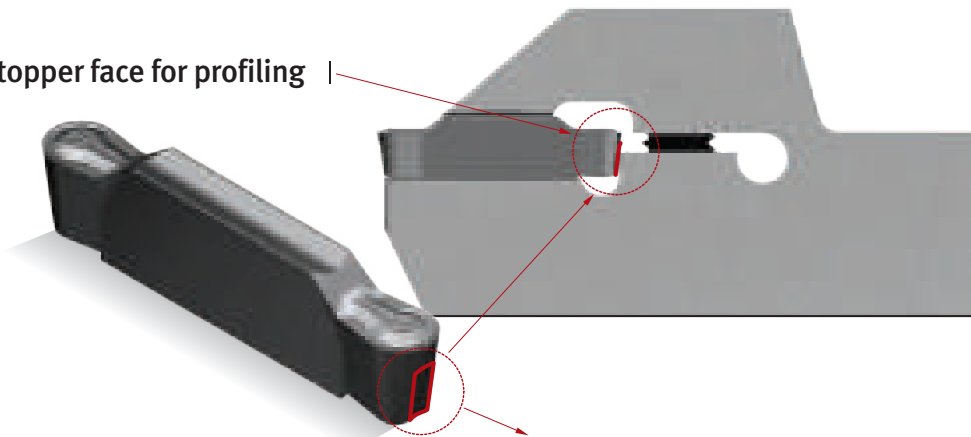
- **Features**
 - High feed machining
 - Strong cutting edge
 - Enhanced productivity

JEIL SOLUTION Stable Clamping



- Applying self-centering system, excellent insert repeatability
- High precision machining with stable clamping

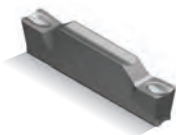
Stopper face for profiling



- Enhanced contact force with increase contact area → Stable machining available

JEIL SOLUTION Grooving Cutting Insert Taegutec type

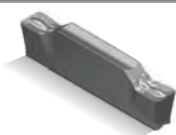
TDC - TAEGUTEC

Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		Compatible (호환)	Material (재종)
		Tolerance(공차)	노즈 R		
	JDC-2S-02M	M Grade	0.2R	TDC-2 TT9080	JI0085
	JDC-3S-02M	M Grade	0.2R	TDC-3 TT9080	JI0085
	JDC-4S-03M	M Grade	0.3R	TDC-4 TT9080	JI0085
	JDC-5S-03M	M Grade	0.3R	TDC-5 TT9080	JI0085
	JDC-6S-04M	M Grade	0.4R	TDC-6 TT9080	JI0085

TDT - RU TAEGUTEC

Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		Compatible (호환)	Material (재종)
		Tolerance(공차)	노즈 R		
	JDT-2RS-10M	M Grade	1.0R	TDT-2.00E-1.0	JI0085
	JDT-3RS-15M	M Grade	1.5R	TDT-3.00E-1.5	JI0085
	JDT-4RS-20M	M Grade	2.0R	TDT-4.00E-2.0	JI0085
	JDT-5RS-25M	M Grade	2.5R	TDT-5.00E-2.5	JI0085

TDJ - TAEGUTEC

Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		Compatible (호환)	Material (재종)
		Tolerance(공차)	노즈 R		
	JDJ-2S-02M	M Grade	0.2R	TDJ-2 TT9080	JI0085
	JDJ-3S-02M	M Grade	0.2R	TDJ-3 TT9080	JI0085
	JDJ-4S-03M	M Grade	0.3R	TDJ-4 TT9080	JI0085

TDT - TAEGUTEC

Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		Compatible (호환)	Material (재종)
		Tolerance(공차)	노즈 R		
	JDT-3S-04M	M Grade	0.4R	TDT-3 TT9080	JI0085
	JDT-4S-04M	M Grade	0.4R	TDT-4 TT9080	JI0085
	JDT-5S-04M	M Grade	0.4R	TDT-5 TT9080	JI0085
	JDT-6S-08M	M Grade	0.8R	TDT-6 TT9080	JI0085

TDXU - TAEGUTEC

Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		Compatible (호환)	Material (재종)
		Tolerance(공차)	노즈 R		
	JDXU-3E-03			TDXU-3E-0.3	JI0085
	JDXU-4E-04			TDXU-4E-0.4	JI0085



JEIL SOLUTION END MILL

“SOLID CARBIDE END MILLS” SERIES

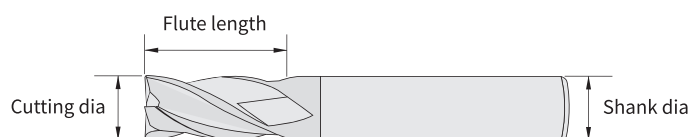
- JH for high hardened steel (HRC 45~65)
- JG for general steel (HRC 50)
- JS for stainless steel
- JA for aluminum



JEIL SOLUTION End Mills

Application of product code

- Numbering System (End Mills)



END MILLS

J	G	C	R	4
Jeil	Workpiece	Type		Number of flute
	H : Hardened S : Stainless G : General A : Aluminum	F : flat CR : corner R R : Rib B : Ball		-

10	X	0.5R	X	22	X	S10	X	100L
Dia	-	Corner R	-	Flute Length	-	Shank Dia	-	Total Length

✦ END MILLS FOR STAINLESS STEEL

- Superior material , coating , geometry for stainless steel & Ni based alloy & Ti alloy machining
- Excellent performance in ISO M.S group
- Wide range of applications with various geometries and specifications

Product Feature

Unique powder, special geometry, coating guarantee excellent cutting performance in stainless steel & Ni based alloy & Ti alloy machining

- Provide highest machining quality and tool life with excellent cutting edge in difficult to cut materials machining
- Longer tool life and minimization cutting force with high rake angle and enhanced edge resistance



Recommended Cutting Conditions

Material group	Stainless steel		HRSA	
Dia(mm)	RPM	Feed(mm/rev)	RPM	Feed(mm/rev)
2	5,400	240	2,500	90
4	4,000	250	2,000	95
6	3,200	350	1,250	95
8	2,000	380	1,050	100
10	1,600	400	800	115

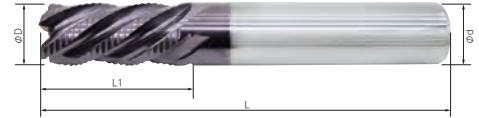
JEIL SOLUTION SUS ENDMILL

4F FLAT



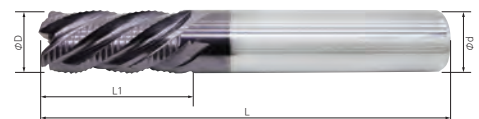
타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Flat	JSF4-1025	JSF4-1.0×2.5×S6×50L	1	6		2.5	50		4
4F Flat	JSF4-1230	JSF4-1.2×3.0×S6×50L	1.2	6		3	50		4
4F Flat	JSF4-1540	JSF4-1.5×4.0×S6×50L	1.5	6		4	50		4
4F Flat	JSF4-2060	JSF4-2.0×6.0×S6×50L	2	6		6	50		4
4F Flat	JSF4-2570	JSF4-2.5×7.0×S6×50L	2.5	6		7	50		4
4F Flat	JSF4-3080	JSF4-3.0×8.0×S6×55L	3	6		8	55		4
4F Flat	JSF4-30100	JSF4-3.0×10×S6×60L	3	6		10	60		4
4F Flat	JSF4-35100	JSF4-3.5×10×S6×55L	3.5	6		10	55		4
4F Flat	JSF4-40100	JSF4-4.0×10×S6×55L	4	6		10	55		4
4F Flat	JSF4-40120	JSF4-4.0×12×S6×60L	4	6		12	60		4
4F Flat	JSF4-45120	JSF4-4.5×12×S6×55L	4.5	6		12	55		4
4F Flat	JSF4-50150	JSF4-5.0×15×S6×55L	5	6		15	55		4
4F Flat	JSF4-55150	JSF4-5.5×15×S6×60L	5.5	6		15	60		4
4F Flat	JSF4-60150	JSF4-6.0×15×S6×60L	6	6		15	60		4
4F Flat	JSF4-60200	JSF4-6.0×20×S6×65L	6	6		20	65		4
4F Flat	JSF4-65150	JSF4-6.5×15×S8×60L	6.5	8		15	60		4
4F Flat	JSF4-70200	JSF4-7.0×20×S8×80L	7	8		20	80		4
4F Flat	JSF4-80200	JSF4-8.0×20×S8×70L	8	8		20	70		4
4F Flat	JSF4-80250	JSF4-8.0×25×S8×70L	8	8		25	70		4
4F Flat	JSF4-80300	JSF4-8.0×30×S8×80L	8	8		30	80		4
4F Flat	JSF4-85200	JSF4-8.5×20×S10×70L	8.5	10		20	70		4
4F Flat	JSF4-90250	JSF4-9.0×25×S10×80L	9	10		25	80		4
4F Flat	JSF4-100250	JSF4-10×25×S10×75L	10	10		25	75		4
4F Flat	JSF4-100350	JSF4-10×35×S10×85L	10	10		35	85		4
4F Flat	JSF4-120300	JSF4-12×30×S12×80L	12	12		30	80		4
4F Flat	JSF4-120400	JSF4-12×40×S12×90L	12	12		40	90		4
4F Flat	JSF4-160420	JSF4-16×42×S16×100L	16	16		42	100		4
4F Flat	JSF4-200480	JSF4-20×48×S20×100L	20	20		48	100		4

3F-5F ROUGHING



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d	R	L1	L	L2	Z
3~5F Roughing	JSFR3-3080	JSFR3-3.0×0.2R×8.0×S6×50L	3	6	0.2	8	50		3
3~5F Roughing	JSFR3-40100	JSFR3-4.0×0.2R×10×S6×50L	4	6	0.2	10	50		3
3~5F Roughing	JSFR4-50130	JSFR4-5.0×0.2R×13×S6×50L	5	6	0.2	13	50		4
3~5F Roughing	JSFR4-6002130	JSFR4-6.0×0.2R×13×S6×60L	6	6	0.2	13	60		4
3~5F Roughing	JSFR4-60200	JSFR4-6.0×0.2R×20×S6×60L	6	6	0.2	10	60	20	4
3~5F Roughing	JSFR4-6005130	JSFR4-6.0×0.5R×13×S6×60L	6	6	0.5	13	60		4
3~5F Roughing	JSFR4-70180	JSFR4-7.0×0.2R×18×S8×70L	7	8	0.2	18	70		4
3~5F Roughing	JSFR4-80190	JSFR4-8.0×0.2R×19×S8×70L	8	8	0.2	19	70		4
3~5F Roughing	JSFR4-80250	JSFR4-8.0×0.2R×25×S8×70L	8	8	0.2	12	70	25	4
3~5F Roughing	JSFR4-8005190	JSFR4-8.0×0.5R×19×S8×70L	8	8	0.5	19	70		4
3~5F Roughing	JSFR4-8010190	JSFR4-8.0×1.0R×19×S8×70L	8	8	1	19	70		4
3~5F Roughing	JSFR4-90200	JSFR4-9.0×0.3R×20×S10×70L	9	10	0.3	20	70		4
3~5F Roughing	JSFR4-10003220	JSFR4-10×0.3R×22×S10×75L	10	10	0.3	22	75		4
3~5F Roughing	JSFR4-10003300	JSFR4-10×0.3R×30×S10×75L	10	10	0.3	15	75	30	4
3~5F Roughing	JSFR4-10005220	JSFR4-10×0.5R×22×S10×75L	10	10	0.5	22	75		4
3~5F Roughing	JSFR4-10010220	JSFR4-10×1.0R×22×S10×75L	10	10	1	22	75		4
3~5F Roughing	JSFR4-110250	JSFR4-11×0.3R×25×S12×80L	11	12	0.3	25	80		4
3~5F Roughing	JSFR4-12003260	JSFR4-12×0.3R×26×S12×80L	12	12	0.3	26	80		4
3~5F Roughing	JSFR4-12010260	JSFR4-12×1.0R×26×S12×80L	12	12	1	26	80		4
3~5F Roughing	JSFR4-120350	JSFR4-12×0.3R×35×S12×80L	12	12	0.3	20	80	35	4
3~5F Roughing	JSFR5-16005320	JSFR5-16×0.5R×32×S16×100L	16	16	0.5	32	100		5
3~5F Roughing	JSFR5-160420	JSFR5-16×0.5R×42×S16×100L	16	16	0.5	42	100		5
3~5F Roughing	JSFR5-16015320	JSFR5-16×1.5R×32×S16×100L	16	16	1.5	32	100		5
3~5F Roughing	JSFR5-16015420	JSFR5-16×1.5R×42×S16×100L	16	16	1.5	42	100		5
3~5F Roughing	JSFR5-20005380	JSFR5-20×0.5R×38×S20×100L	20	20	0.5	38	100		5
3~5F Roughing	JSFR5-20005450	JSFR5-20×0.5R×45×S20×100L	20	20	0.5	45	100		5
3~5F Roughing	JSFR5-20020380	JSFR5-20×2.0R×38×S20×100L	20	20	2	38	100		5
3~5F Roughing	JSFR5-20020450	JSFR5-20×2.0R×45×S20×100L	20	20	2	45	100		5

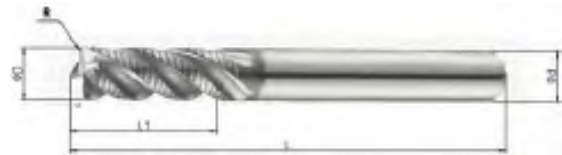
3F-45 ANGLE



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d	R	L1	L	L2	Z
3F 45 Angle	JS45F3-1025	JS45F3-1.0×2.5×S6×50L	1	6		2.5	50		3
3F 45 Angle	JS45F3-1230	JS45F3-1.2×3.0×S6×50L	1.2	6		3	50		3
3F 45 Angle	JS45F3-1540	JS45F3-1.5×4.0×S6×50L	1.5	6		4	50		3
3F 45 Angle	JS45F3-2060	JS45F3-2.0×6.0×S6×50L	2	6		6	50		3

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
3F 45 Angle	JS45F3-2570	JS45F3-2.5×7.0×S6×50L	2.5	6		7	50		3
3F 45 Angle	JS45F3-3080	JS45F3-3.0×8.0×S6×55L	3	6		8	55		3
3F 45 Angle	JS45F3-30100	JS45F3-3.0×10×S6×60L	3	6		10	60		3
3F 45 Angle	JS45F3-40100	JS45F3-4.0×10×S6×55L	4	6		10	55		3
3F 45 Angle	JS45F3-40120	JS45F3-4.0×12×S6×60L	4	6		12	60		3
3F 45 Angle	JS45F3-50130	JS45F3-5.0×13×S6×55L	5	6		13	55		3
3F 45 Angle	JS45F3-60150	JS45F3-6.0×15×S6×60L	6	6		15	60		3
3F 45 Angle	JS45F3-60200	JS45F3-6.0×20×S6×65L	6	6		20	65		3
3F 45 Angle	JS45F3-80200	JS45F3-8.0×20×S8×70L	8	8		20	70		3
3F 45 Angle	JS45F3-80300	JS45F3-8.0×30×S8×80L	8	8		30	80		3
3F 45 Angle	JS45F3-100250	JS45F3-10×25×S10×75L	10	10		25	75		3
3F 45 Angle	JS45F3-100350	JS45F3-10×35×S10×85L	10	10		35	85		3
3F 45 Angle	JS45F3-120300	JS45F3-12×30×S12×80L	12	12		30	80		3
3F 45 Angle	JS45F3-120400	JS45F3-12×40×S12×90L	12	12		40	90		3
3F 45 Angle	JS45F3-160420	JS45F3-16×42×S16×100L	16	16		42	100		3
3F 45 Angle	JS45F3-200480	JS45F3-20×48×S20×100L	20	20		48	100		3

4F CR



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F CR	JSCR4-300280	JSCR4-3.0×0.2R×8.0×S6×55L	3	6	0.2	8	55		4
4F CR	JSCR4-4002100	JSCR4-4.0×0.2R×10×S6×55L	4	6	0.2	10	55		4
4F CR	JSCR4-5002150	JSCR4-5.0×0.2R×15×S6×55L	5	6	0.2	15	55		4
4F CR	JSCR4-6003150	JSCR4-6.0×0.3R×15×S6×60L	6	6	0.3	15	60		4
4F CR	JSCR4-6005150	JSCR4-6.0×0.5R×15×S6×60L	6	6	0.5	15	60		4
4F CR	JSCR4-8005200	JSCR4-8.0×0.5R×20×S8×70L	8	8	0.5	20	70		4
4F CR	JSCR4-10003250	JSCR4-10×0.3R×25×S10×75L	10	10	0.3	25	75		4
4F CR	JSCR4-10005250	JSCR4-10×0.5R×25×S10×75L	10	10	0.5	25	75		4
4F CR	JSCR4-10010250	JSCR4-10×1.0R×25×S10×75L	10	10	1	25	75		4
4F CR	JSCR4-12005300	JSCR4-12×0.5R×30×S10×80L	12	12	0.5	30	80		4

END MILLS FOR HIGH HARDENED MATERIAL

- Specially designed for machining high hardened material (HRC45-65)
- Excellent quality and performance for automotive and mold industry
- Apply optimal design for cutting edge and coating improve wear resistance and toughness

Product Feature

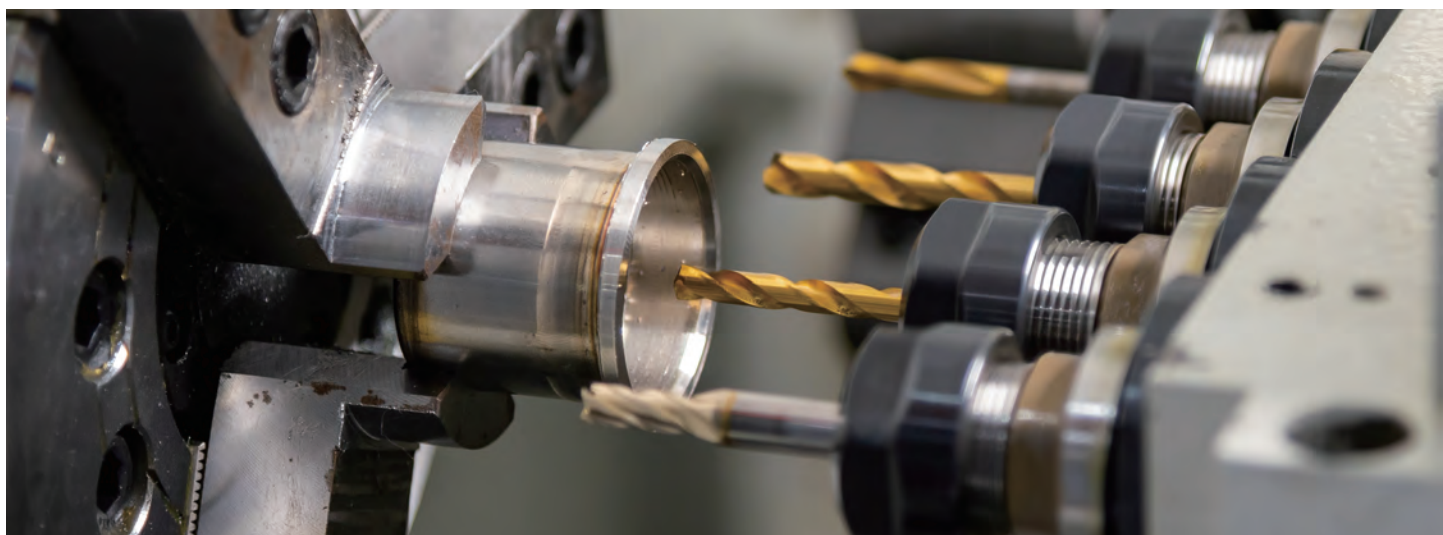
Apply for optimized material and coating guarantee excellent cutting and tool life in automobile and mold industry hardened material machining

- Improve productivity and reduce cutting force at high speed machining
- Improve surface quality and high precision machining with high quality of end mills
- Stable machining with optimized rake - angle and clearance angle



Recommended Cutting Conditions

Material group	High Hardened Steel	
Dia(mm)	RPM	Feed(mm/rev)
2	4,200	230
4	3,100	270
6	2,500	270
8	2,100	290
10	1,600	300



JEIL SOLUTION HIGH HARDENED ENDMILL

2F BALL SHORT

WC			30°	d_1 0~0.01 d1≤5	d_1 -0.01 ~0.025 d1>5	r ±0.005 r≤2.5	r ±0.01 r>2.5
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Ball Short	JHBS2-01005	JHBS2-0.1×0.05R×0.1×S6×40L	0.1	6		0.1	40		2
2F Ball Short	JHBS2-0201	JHBS2-0.2×0.1R×0.2×S6×40L	0.2	6		0.2	40		2
2F Ball Short	JHBS2-03015	JHBS2-0.3×0.15R×0.3×S6×40L	0.3	6		0.3	40		2
2F Ball Short	JHBS2-0402	JHBS2-0.4×0.2R×0.4×S6×40L	0.4	6		0.4	40		2
2F Ball Short	JHBS2-05025	JHBS2-0.5×0.25R×0.5×S6×40L	0.5	6		0.5	40		2
2F Ball Short	JHBS2-0603	JHBS2-0.6×0.3R×0.6×S6×40L	0.6	6		0.6	40		2
2F Ball Short	JHBS2-07035	JHBS2-0.7×0.35R×0.7×S6×40L	0.7	6		0.7	40		2
2F Ball Short	JHBS2-0804	JHBS2-0.8×0.4R×0.8×S6×40L	0.8	6		0.8	40		2
2F Ball Short	JHBS2-09045	JHBS2-0.9×0.45R×0.9×S6×40L	0.9	6		0.9	40		2
2F Ball Short	JHBS2-1005	JHBS2-1.0×0.5R×1.5×S6×40L	1	6		1.5	40		2
2F Ball Short	JHBS2-15075	JHBS2-1.5×0.75R×2.5×S6×40L	1.5	6		2.5	40		2
2F Ball Short	JHBS2-2010	JHBS2-2.0×1.0R×3.0×S6×40L	2	6		3	40		2
2F Ball Short	JHBS2-3015	JHBS2-3.0×1.5R×4.5×S6×50L	3	6		4.5	50		2
2F Ball Short	JHBS2-4020	JHBS2-4.0×2.0R×6.0×S6×50L	4	6		6	50		2
2F Ball Short	JHBS2-5025	JHBS2-5.0×2.5R×7.5×S6×50L	5	6		7.5	50		2
2F Ball Short	JHBS2-6030	JHBS2-6.0×3.0R×9.0×S6×50L	6	6		9	50		2
2F Ball Short	JHBS2-8040	JHBS2-8.0×4.0R×12×S8×50L	8	8		12	50		2
2F Ball Short	JHBS2-10050	JHBS2-10×5.0R×15×S10×60L	10	10		15	60		2
2F Ball Short	JHBS2-12060	JHBS2-12×6.0R×18×S12×60L	12	12		18	60		2

2F BALL

WC			30°	d_1 0~0.01 d1≤5	d_1 -0.01 ~0.025 d1>5	r ±0.005 r≤2.5	r ±0.01 r>2.5
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Ball	JHB2-01005	JHB2-0.1×0.05R×0.2×S4×40L	0.1	4		0.2	40		2
2F Ball	JHB2-0201	JHB2-0.2×0.1R×0.4×S4×40L	0.2	4		0.4	40		2
2F Ball	JHB2-03015	JHB2-0.3×0.15R×0.6×S4×40L	0.3	4		0.6	40		2
2F Ball	JHB2-0402	JHB2-0.4×0.2R×0.8×S4×40L	0.4	4		0.8	40		2
2F Ball	JHB2-05025	JHB2-0.5×0.25R×1.0×S4×40L	0.5	4		1	40		2
2F Ball	JHB2-0603	JHB2-0.6×0.3R×1.2×S4×40L	0.6	4		1.2	40		2
2F Ball	JHB2-07035	JHB2-0.7×0.35R×1.4×S4×40L	0.7	4		1.4	40		2
2F Ball	JHB2-0804	JHB2-0.8×0.4R×1.6×S4×40L	0.8	4		1.6	40		2
2F Ball	JHB2-09045	JHB2-0.9×0.45R×1.8×S4×40L	0.9	4		1.8	40		2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Ball	JHB2-1005	JHB2-1.0×0.5R×2.5×S6×50L	1	6		2.5	50		2
2F Ball	JHB2-1005-1	JHB2-1.0×0.5R×2.5×S4×50L	1	4		2.5	50		2
2F Ball	JHB2-1206	JHB2-1.2×0.6R×3.0×S6×50L	1.2	6		3	50		2
2F Ball	JHB2-15075	JHB2-1.5×0.75R×4.0×S6×50L	1.5	6		4	50		2
2F Ball	JHB2-15075-1	JHB2-1.5×0.75R×4.0×S4×50L	1.5	4		4	50		2
2F Ball	JHB2-201050	JHB2-2.0×1.0R×5.0×S6×50L	2	6		5	50		2
2F Ball	JHB2-201050-1	JHB2-2.0×1.0R×5.0×S4×50L	2	4		5	50		2
2F Ball	JHB2-2512570	JHB2-2.5×1.25R×7.0×S6×60L	2.5	6		7	60		2
2F Ball	JHB2-301580	JHB2-3.0×1.5R×8.0×S6×60L	3	6		8	60		2
2F Ball	JHB2-301580-1	JHB2-3.0×1.5R×8.0×S3×70L	3	3		8	70		2
2F Ball	JHB2-301580-2	JHB2-3.0×1.5R×8.0×S4×60L	3	4		8	60		2
2F Ball	JHB2-3517580	JHB2-3.5×1.75R×8.0×S6×70L	3.5	6		8	70		2
2F Ball	JHB2-402080	JHB2-4.0×2.0R×8.0×S6×70L	4	6		8	70		2
2F Ball	JHB2-402080-1	JHB2-4.0×2.0R×8.0×S4×80L	4	4		8	80		2
2F Ball	JHB2-45225100	JHB2-4.5×2.25R×10×S6×80L	4.5	6		10	80		2
2F Ball	JHB2-5025100	JHB2-5.0×2.5R×10×S6×80L	5	6		10	80		2
2F Ball	JHB2-55275110	JHB2-5.5×2.75R×11×S6×90L	5.5	6		11	90		2
2F Ball	JHB2-6030120	JHB2-6.0×3.0R×12×S6×90L	6	6		12	90		2
2F Ball	JHB2-7035140	JHB2-7.0×3.5R×14×S8×90L	7	8		14	90		2
2F Ball	JHB2-8040140	JHB2-8.0×4.0R×14×S8×100L	8	8		14	100		2
2F Ball	JHB2-9045180	JHB2-9.0×4.5R×18×S10×100L	9	10		18	100		2
2F Ball	JHB2-10050180	JHB2-10×5.0R×18×S10×100L	10	10		18	100		2
2F Ball	JHB2-12060220	JHB2-12×6.0R×22×S12×110L	12	12		22	110		2

4F CORNER R

WC		30°	d ₁ 0~0.01 d1≤5	d ₁ ~0.01 ~0.025 d1>5	r ±0.005 r≤0.5	r ±0.01 0.5<r≤2	r ±0.01 r>2
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F CR	JHCR4-1001	JHCR4-1.0×0.1R×2.0×S6×50L	1	6	R0.1	2	50		4
4F CR	JHCR4-1002	JHCR4-1.0×0.2R×2.0×S6×50L	1	6	R0.2	2	50		4
4F CR	JHCR4-1003	JHCR4-1.0×0.3R×2.0×S6×50L	1	6	R0.3	2	50		4
4F CR	JHCR4-1501	JHCR4-1.5×0.1R×3.0×S6×50L	1.5	6	R0.1	3	50		4
4F CR	JHCR4-1502	JHCR4-1.5×0.2R×3.0×S6×50L	1.5	6	R0.2	3	50		4
4F CR	JHCR4-1503	JHCR4-1.5×0.3R×3.0×S6×50L	1.5	6	R0.3	3	50		4
4F CR	JHCR4-1505	JHCR4-1.5×0.5R×3.0×S6×50L	1.5	6	R0.5	3	50		4
4F CR	JHCR4-2001	JHCR4-2.0×0.1R×5.0×S6×50L	2	6	R0.1	5	50		4
4F CR	JHCR4-2002	JHCR4-2.0×0.2R×5.0×S6×50L	2	6	R0.2	5	50		4
4F CR	JHCR4-2003	JHCR4-2.0×0.3R×5.0×S6×50L	2	6	R0.3	5	50		4
4F CR	JHCR4-2004	JHCR4-2.0×0.4R×5.0×S6×50L	2	6	R0.4	5	50		4
4F CR	JHCR4-2005	JHCR4-2.0×0.5R×5.0×S6×50L	2	6	R0.5	5	50		4
4F CR	JHCR4-2501	JHCR4-2.5×0.1R×7.0×S6×60L	2.5	6	R0.1	7	60		4
4F CR	JHCR4-2502	JHCR4-2.5×0.2R×7.0×S6×60L	2.5	6	R0.2	7	60		4

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F CR	JHCR4-2503	JHCR4-2.5×0.3R×7.0×S6×60L	2.5	6	R0.3	7	60		4
4F CR	JHCR4-2505	JHCR4-2.5×0.5R×7.0×S6×60L	2.5	6	R0.5	7	60		4
4F CR	JHCR4-3001	JHCR4-3.0×0.1R×8.0×S6×60L	3	6	R0.1	8	60		4
4F CR	JHCR4-3002	JHCR4-3.0×0.2R×8.0×S6×60L	3	6	R0.2	8	60		4
4F CR	JHCR4-3003	JHCR4-3.0×0.3R×8.0×S6×60L	3	6	R0.3	8	60		4
4F CR	JHCR4-3005	JHCR4-3.0×0.5R×8.0×S6×60L	3	6	R0.5	8	60		4
4F CR	JHCR4-4001	JHCR4-4.0×0.1R×10×S6×70L	4	6	R0.1	10	70		4
4F CR	JHCR4-4002	JHCR4-4.0×0.2R×10×S6×70L	4	6	R0.2	10	70		4
4F CR	JHCR4-4003	JHCR4-4.0×0.3R×10×S6×70L	4	6	R0.3	10	70		4
4F CR	JHCR4-4005	JHCR4-4.0×0.5R×10×S6×70L	4	6	R0.5	10	70		4
4F CR	JHCR4-4010	JHCR4-4.0×1.0R×10×S6×70L	4	6	R1	10	70		4
4F CR	JHCR4-5001	JHCR4-5.0×0.1R×13×S6×80L	5	6	R0.1	13	80		4
4F CR	JHCR4-5002	JHCR4-5.0×0.2R×13×S6×80L	5	6	R0.2	13	80		4
4F CR	JHCR4-5003	JHCR4-5.0×0.3R×13×S6×80L	5	6	R0.3	13	80		4
4F CR	JHCR4-5005	JHCR4-5.0×0.5R×13×S6×80L	5	6	R0.5	13	80		4
4F CR	JHCR4-5010	JHCR4-5.0×1.0R×13×S6×80L	5	6	R1	13	80		4
4F CR	JHCR4-6001	JHCR4-6.0×0.1R×15×S6×90L	6	6	R0.1	15	90		4
4F CR	JHCR4-6002	JHCR4-6.0×0.2R×15×S6×90L	6	6	R0.2	15	90		4
4F CR	JHCR4-6003	JHCR4-6.0×0.3R×15×S6×90L	6	6	R0.3	15	90		4
4F CR	JHCR4-6005	JHCR4-6.0×0.5R×15×S6×90L	6	6	R0.5	15	90		4
4F CR	JHCR4-6010	JHCR4-6.0×1.0R×15×S6×90L	6	6	R1	15	90		4
4F CR	JHCR4-7001	JHCR4-7.0×0.1R×18×S8×90L	7	8	R0.1	18	90		4
4F CR	JHCR4-7002	JHCR4-7.0×0.2R×18×S8×90L	7	8	R0.2	18	90		4
4F CR	JHCR4-7003	JHCR4-7.0×0.3R×18×S8×90L	7	8	R0.3	18	90		4
4F CR	JHCR4-7005	JHCR4-7.0×0.5R×18×S8×90L	7	8	R0.5	18	90		4
4F CR	JHCR4-7010	JHCR4-7.0×1.0R×18×S8×90L	7	8	R1	18	90		4
4F CR	JHCR4-7020	JHCR4-7.0×2.0R×18×S8×90L	7	8	R2	18	90		4
4F CR	JHCR4-8001	JHCR4-8.0×0.1R×20×S8×100L	8	8	R0.1	20	100		4
4F CR	JHCR4-8002	JHCR4-8.0×0.2R×20×S8×100L	8	8	R0.2	20	100		4
4F CR	JHCR4-8003	JHCR4-8.0×0.3R×20×S8×100L	8	8	R0.3	20	100		4
4F CR	JHCR4-8005	JHCR4-8.0×0.5R×20×S8×100L	8	8	R0.5	20	100		4
4F CR	JHCR4-8010	JHCR4-8.0×1.0R×20×S8×100L	8	8	R1	20	100		4
4F CR	JHCR4-8020	JHCR4-8.0×2.0R×20×S8×100L	8	8	R2	20	100		4
4F CR	JHCR4-10002	JHCR4-10×0.2R×25×S10×100L	10	10	R0.2	25	100		4
4F CR	JHCR4-10003	JHCR4-10×0.3R×25×S10×100L	10	10	R0.3	25	100		4
4F CR	JHCR4-10005	JHCR4-10×0.5R×25×S10×100L	10	10	R0.5	25	100		4
4F CR	JHCR4-10010	JHCR4-10×1.0R×25×S10×100L	10	10	R1	25	100		4
4F CR	JHCR4-10020	JHCR4-10×2.0R×25×S10×100L	10	10	R2	25	100		4
4F CR	JHCR4-11002	JHCR4-11×0.2R×28×S12×110L	11	12	R0.2	28	110		4
4F CR	JHCR4-11003	JHCR4-11×0.3R×28×S12×110L	11	12	R0.3	28	110		4
4F CR	JHCR4-11005	JHCR4-11×0.5R×28×S12×110L	11	12	R0.5	28	110		4
4F CR	JHCR4-11010	JHCR4-11×1.0R×28×S12×110L	11	12	R1	28	110		4
4F CR	JHCR4-11020	JHCR4-11×2.0R×28×S12×110L	11	12	R2	28	110		4
4F CR	JHCR4-12002	JHCR4-12×0.2R×30×S12×110L	12	12	R0.2	30	110		4
4F CR	JHCR4-12003	JHCR4-12×0.3R×30×S12×110L	12	12	R0.3	30	110		4
4F CR	JHCR4-12005	JHCR4-12×0.5R×30×S12×110L	12	12	R0.5	30	110		4
4F CR	JHCR4-12010	JHCR4-12×1.0R×30×S12×110L	12	12	R1	30	110		4
4F CR	JHCR4-12020	JHCR4-12×2.0R×30×S12×110L	12	12	R2	30	110		4

2F CORNER R

WC			35°	d_1 0~0.01 d1≤5	d_1 -0.01 ~0.025 d1>5	r ±0.005 r≤0.5	r ±0.01 0.5<r≤2
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d	R	L1	L	L2	Z
2F CR	JHCR2-04005	JHCR2-0.4×0.05R×0.8×S4×40L	0.4	4	R0.05	0.8	40		2
2F CR	JHCR2-0401	JHCR2-0.4×0.1R×0.8×S4×40L	0.4	4	R0.1	0.8	40		2
2F CR	JHCR2-05005	JHCR2-0.5×0.05R×1.0×S4×40L	0.5	4	R0.05	1	40		2
2F CR	JHCR2-0501	JHCR2-0.5×0.1R×1.0×S4×40L	0.5	4	R0.1	1	40		2
2F CR	JHCR2-06005	JHCR2-0.6×0.05R×1.2×S4×40L	0.6	4	R0.05	1.2	40		2
2F CR	JHCR2-0601	JHCR2-0.6×0.1R×1.2×S4×40L	0.6	4	R0.1	1.2	40		2
2F CR	JHCR2-07005	JHCR2-0.7×0.05R×1.4×S4×40L	0.7	4	R0.05	1.4	40		2
2F CR	JHCR2-0701	JHCR2-0.7×0.1R×1.4×S4×40L	0.7	4	R0.1	1.4	40		2
2F CR	JHCR2-08005	JHCR2-0.8×0.05R×1.6×S4×40L	0.8	4	R0.05	1.6	40		2
2F CR	JHCR2-0801	JHCR2-0.8×0.1R×1.6×S4×40L	0.8	4	R0.1	1.6	40		2
2F CR	JHCR2-09005	JHCR2-0.9×0.05R×1.8×S4×40L	0.9	4	R0.05	1.8	40		2
2F CR	JHCR2-0901	JHCR2-0.9×0.1R×1.8×S4×40L	0.9	4	R0.1	1.8	40		2
2F CR	JHCR2-10005	JHCR2-1.0×0.05R×2.0×S6×50L	1	6	R0.05	2	50		2
2F CR	JHCR2-1001	JHCR2-1.0×0.1R×2.0×S6×50L	1	6	R0.1	2	50		2
2F CR	JHCR2-1002	JHCR2-1.0×0.2R×2.0×S6×50L	1	6	R0.2	2	50		2
2F CR	JHCR2-1003	JHCR2-1.0×0.3R×2.0×S6×50L	1	6	R0.3	2	50		2
2F CR	JHCR2-15005	JHCR2-1.5×0.05R×3.0×S6×50L	1.5	6	R0.05	3	50		2
2F CR	JHCR2-1501	JHCR2-1.5×0.1R×3.0×S6×50L	1.5	6	R0.1	3	50		2
2F CR	JHCR2-1502	JHCR2-1.5×0.2R×3.0×S6×50L	1.5	6	R0.2	3	50		2
2F CR	JHCR2-1503	JHCR2-1.5×0.3R×3.0×S6×50L	1.5	6	R0.3	3	50		2
2F CR	JHCR2-1505	JHCR2-1.5×0.5R×3.0×S6×50L	1.5	6	R0.5	3	50		2
2F CR	JHCR2-2001	JHCR2-2.0×0.1R×5.0×S6×50L	2	6	R0.1	5	50		2
2F CR	JHCR2-2002	JHCR2-2.0×0.2R×5.0×S6×50L	2	6	R0.2	5	50		2
2F CR	JHCR2-2003	JHCR2-2.0×0.3R×5.0×S6×50L	2	6	R0.3	5	50		2
2F CR	JHCR2-2004	JHCR2-2.0×0.4R×5.0×S6×50L	2	6	R0.4	5	50		2
2F CR	JHCR2-2005	JHCR2-2.0×0.5R×5.0×S6×50L	2	6	R0.5	5	50		2
2F CR	JHCR2-2501	JHCR2-2.5×0.1R×7.0×S6×60L	2.5	6	R0.1	7	60		2
2F CR	JHCR2-2502	JHCR2-2.5×0.2R×7.0×S6×60L	2.5	6	R0.2	7	60		2
2F CR	JHCR2-2503	JHCR2-2.5×0.3R×7.0×S6×60L	2.5	6	R0.3	7	60		2
2F CR	JHCR2-2505	JHCR2-2.5×0.5R×7.0×S6×60L	2.5	6	R0.5	7	60		2
2F CR	JHCR2-3001	JHCR2-3.0×0.1R×8.0×S6×60L	3	6	R0.1	8	60		2
2F CR	JHCR2-3002	JHCR2-3.0×0.2R×8.0×S6×60L	3	6	R0.2	8	60		2
2F CR	JHCR2-3003	JHCR2-3.0×0.3R×8.0×S6×60L	3	6	R0.3	8	60		2
2F CR	JHCR2-3005	JHCR2-3.0×0.5R×8.0×S6×60L	3	6	R0.5	8	60		2
2F CR	JHCR2-3501	JHCR2-3.5×0.1R×9.0×S6×70L	3.5	6	R0.1	9	70		2
2F CR	JHCR2-3502	JHCR2-3.5×0.2R×9.0×S6×70L	3.5	6	R0.2	9	70		2
2F CR	JHCR2-3503	JHCR2-3.5×0.3R×9.0×S6×70L	3.5	6	R0.3	9	70		2
2F CR	JHCR2-3505	JHCR2-3.5×0.5R×9.0×S6×70L	3.5	6	R0.5	9	70		2
2F CR	JHCR2-4001	JHCR2-4.0×0.1R×10×S6×70L	4	6	R0.1	10	70		2
2F CR	JHCR2-4002	JHCR2-4.0×0.2R×10×S6×70L	4	6	R0.2	10	70		2
2F CR	JHCR2-4003	JHCR2-4.0×0.3R×10×S6×70L	4	6	R0.3	10	70		2
2F CR	JHCR2-4005	JHCR2-4.0×0.5R×10×S6×70L	4	6	R0.5	10	70		2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F CR	JHCR2-4010	JHCR2-4.0×1.0R×10×S6×70L	4	6	R1	10	70		2
2F CR	JHCR2-4501	JHCR2-4.5×0.1R×12×S6×80L	4.5	6	R0.1	12	80		2
2F CR	JHCR2-4502	JHCR2-4.5×0.2R×12×S6×80L	4.5	6	R0.2	12	80		2
2F CR	JHCR2-4503	JHCR2-4.5×0.3R×12×S6×80L	4.5	6	R0.3	12	80		2
2F CR	JHCR2-4505	JHCR2-4.5×0.5R×12×S6×80L	4.5	6	R0.5	12	80		2
2F CR	JHCR2-5001	JHCR2-5.0×0.1R×13×S6×80L	5	6	R0.1	13	80		2
2F CR	JHCR2-5002	JHCR2-5.0×0.2R×13×S6×80L	5	6	R0.2	13	80		2
2F CR	JHCR2-5003	JHCR2-5.0×0.3R×13×S6×80L	5	6	R0.3	13	80		2
2F CR	JHCR2-5005	JHCR2-5.0×0.5R×13×S6×80L	5	6	R0.5	13	80		2
2F CR	JHCR2-5010	JHCR2-5.0×1.0R×13×S6×80L	5	6	R1	13	80		2
2F CR	JHCR2-5501	JHCR2-5.5×0.1R×14×S6×90L	5.5	6	R0.1	14	90		2
2F CR	JHCR2-5502	JHCR2-5.5×0.2R×14×S6×90L	5.5	6	R0.2	14	90		2
2F CR	JHCR2-5503	JHCR2-5.5×0.3R×14×S6×90L	5.5	6	R0.3	14	90		2
2F CR	JHCR2-5505	JHCR2-5.5×0.5R×14×S6×90L	5.5	6	R0.5	14	90		2
2F CR	JHCR2-5510	JHCR2-5.5×1.0R×14×S6×90L	5.5	6	R1	14	90		2
2F CR	JHCR2-6001	JHCR2-6.0×0.1R×15×S6×90L	6	6	R0.1	15	90		2
2F CR	JHCR2-6002	JHCR2-6.0×0.2R×15×S6×90L	6	6	R0.2	15	90		2
2F CR	JHCR2-6003	JHCR2-6.0×0.3R×15×S6×90L	6	6	R0.3	15	90		2
2F CR	JHCR2-6005	JHCR2-6.0×0.5R×15×S6×90L	6	6	R0.5	15	90		2
2F CR	JHCR2-6010	JHCR2-6.0×1.0R×15×S6×90L	6	6	R1	15	90		2
2F CR	JHCR2-7001	JHCR2-7.0×0.1R×18×S8×90L	7	8	R0.1	18	90		2
2F CR	JHCR2-7002	JHCR2-7.0×0.2R×18×S8×90L	7	8	R0.2	18	90		2
2F CR	JHCR2-7003	JHCR2-7.0×0.3R×18×S8×90L	7	8	R0.3	18	90		2
2F CR	JHCR2-7005	JHCR2-7.0×0.5R×18×S8×90L	7	8	R0.5	18	90		2
2F CR	JHCR2-7010	JHCR2-7.0×1.0R×18×S8×90L	7	8	R1	18	90		2
2F CR	JHCR2-7020	JHCR2-7.0×2.0R×18×S8×90L	7	8	R2	18	90		2
2F CR	JHCR2-8001	JHCR2-8.0×0.1R×20×S8×100L	8	8	R0.1	20	100		2
2F CR	JHCR2-8002	JHCR2-8.0×0.2R×20×S8×100L	8	8	R0.2	20	100		2
2F CR	JHCR2-8003	JHCR2-8.0×0.3R×20×S8×100L	8	8	R0.3	20	100		2
2F CR	JHCR2-8005	JHCR2-8.0×0.5R×20×S8×100L	8	8	R0.5	20	100		2
2F CR	JHCR2-8010	JHCR2-8.0×1.0R×20×S8×100L	8	8	R1	20	100		2
2F CR	JHCR2-8020	JHCR2-8.0×2.0R×20×S8×100L	8	8	R2	20	100		2
2F CR	JHCR2-10002	JHCR2-10×0.2R×25×S10×100L	10	10	R0.2	25	100		2
2F CR	JHCR2-10003	JHCR2-10×0.3R×25×S10×100L	10	10	R0.3	25	100		2
2F CR	JHCR2-10005	JHCR2-10×0.5R×25×S10×100L	10	10	R0.5	25	100		2
2F CR	JHCR2-10010	JHCR2-10×1.0R×25×S10×100L	10	10	R1	25	100		2
2F CR	JHCR2-10020	JHCR2-10×2.0R×25×S10×100L	10	10	R2	25	100		2
2F CR	JHCR2-11002	JHCR2-11×0.2R×28×S12×110L	11	12	R0.2	28	110		2
2F CR	JHCR2-11003	JHCR2-11×0.3R×28×S12×110L	11	12	R0.3	28	110		2
2F CR	JHCR2-11005	JHCR2-11×0.5R×28×S12×110L	11	12	R0.5	28	110		2
2F CR	JHCR2-11010	JHCR2-11×1.0R×28×S12×110L	11	12	R1	28	110		2
2F CR	JHCR2-11020	JHCR2-11×2.0R×28×S12×110L	11	12	R2	28	110		2
2F CR	JHCR2-12002	JHCR2-12×0.2R×30×S12×110L	12	12	R0.2	30	110		2
2F CR	JHCR2-12003	JHCR2-12×0.3R×30×S12×110L	12	12	R0.3	30	110		2
2F CR	JHCR2-12005	JHCR2-12×0.5R×30×S12×110L	12	12	R0.5	30	110		2
2F CR	JHCR2-12010	JHCR2-12×1.0R×30×S12×110L	12	12	R1	30	110		2
2F CR	JHCR2-12020	JHCR2-12×2.0R×30×S12×110L	12	12	R2	30	110		2

2F RIB CORNER R

WC		35°	d ₁ 0 ~ 0.01 d1 ≤ 5	d ₁ -0.01 ~ -0.025 d1 > 5	r ±0.005 r ≤ 0.5	r ±0.01 0.5 < r ≤ 2
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib CR	JHRCR2-0400510	JHRCR2-0.4×0.05R×1.0×S4×45L	0.4	4	R0.05	1	45	0.6	2
2F Rib CR	JHRCR2-0400515	JHRCR2-0.4×0.05R×1.5×S4×45L	0.4	4	R0.05	1.5	45	0.6	2
2F Rib CR	JHRCR2-0400525	JHRCR2-0.4×0.05R×2.5×S4×45L	0.4	4	R0.05	2.5	45	0.6	2
2F Rib CR	JHRCR2-0400530	JHRCR2-0.4×0.05R×3.0×S4×45L	0.4	4	R0.05	3	45	0.6	2
2F Rib CR	JHRCR2-0400540	JHRCR2-0.4×0.05R×4.0×S4×45L	0.4	4	R0.05	4	45	0.6	2
2F Rib CR	JHRCR2-0500510	JHRCR2-0.5×0.05R×1.0×S4×45L	0.5	4	R0.05	1	45	0.7	2
2F Rib CR	JHRCR2-0500515	JHRCR2-0.5×0.05R×1.5×S4×45L	0.5	4	R0.05	1.5	45	0.7	2
2F Rib CR	JHRCR2-0500525	JHRCR2-0.5×0.05R×2.5×S4×45L	0.5	4	R0.05	2.5	45	0.7	2
2F Rib CR	JHRCR2-0500530	JHRCR2-0.5×0.05R×3.0×S4×45L	0.5	4	R0.05	3	45	0.7	2
2F Rib CR	JHRCR2-0500540	JHRCR2-0.5×0.05R×4.0×S4×45L	0.5	4	R0.05	4	45	0.7	2
2F Rib CR	JHRCR2-0600520	JHRCR2-0.6×0.05R×2.0×S4×45L	0.6	4	R0.05	2	45	0.9	2
2F Rib CR	JHRCR2-0600540	JHRCR2-0.6×0.05R×4.0×S4×45L	0.6	4	R0.05	4	45	0.9	2
2F Rib CR	JHRCR2-0600560	JHRCR2-0.6×0.05R×6.0×S4×45L	0.6	4	R0.05	6	45	0.9	2
2F Rib CR	JHRCR2-060120	JHRCR2-0.6×0.1R×2.0×S4×45L	0.6	4	R0.1	2	45	0.9	2
2F Rib CR	JHRCR2-060140	JHRCR2-0.6×0.1R×4.0×S4×45L	0.6	4	R0.1	4	45	0.9	2
2F Rib CR	JHRCR2-060160	JHRCR2-0.6×0.1R×6.0×S4×45L	0.6	4	R0.1	6	45	0.9	2
2F Rib CR	JHRCR2-060220	JHRCR2-0.6×0.2R×2.0×S4×45L	0.6	4	R0.2	2	45	0.9	2
2F Rib CR	JHRCR2-060240	JHRCR2-0.6×0.2R×4.0×S4×45L	0.6	4	R0.2	4	45	0.9	2
2F Rib CR	JHRCR2-060260	JHRCR2-0.6×0.2R×6.0×S4×45L	0.6	4	R0.2	6	45	0.9	2
2F Rib CR	JHRCR2-0800520	JHRCR2-0.8×0.05R×2.0×S4×45L	0.8	4	R0.05	2	45	1.2	2
2F Rib CR	JHRCR2-0800540	JHRCR2-0.8×0.05R×4.0×S4×45L	0.8	4	R0.05	4	45	1.2	2
2F Rib CR	JHRCR2-0800560	JHRCR2-0.8×0.05R×6.0×S4×45L	0.8	4	R0.05	6	45	1.2	2
2F Rib CR	JHRCR2-0800580	JHRCR2-0.8×0.05R×8.0×S4×45L	0.8	4	R0.05	8	45	1.2	2
2F Rib CR	JHRCR2-080120	JHRCR2-0.8×0.1R×2.0×S4×45L	0.8	4	R0.1	2	45	1.2	2
2F Rib CR	JHRCR2-080140	JHRCR2-0.8×0.1R×4.0×S4×45L	0.8	4	R0.1	4	45	1.2	2
2F Rib CR	JHRCR2-080160	JHRCR2-0.8×0.1R×6.0×S4×45L	0.8	4	R0.1	6	45	1.2	2
2F Rib CR	JHRCR2-080180	JHRCR2-0.8×0.1R×8.0×S4×45L	0.8	4	R0.1	8	45	1.2	2
2F Rib CR	JHRCR2-080220	JHRCR2-0.8×0.2R×2.0×S4×45L	0.8	4	R0.2	2	45	1.2	2
2F Rib CR	JHRCR2-080240	JHRCR2-0.8×0.2R×4.0×S4×45L	0.8	4	R0.2	4	45	1.2	2
2F Rib CR	JHRCR2-080260	JHRCR2-0.8×0.2R×6.0×S4×45L	0.8	4	R0.2	6	45	1.2	2
2F Rib CR	JHRCR2-080280	JHRCR2-0.8×0.2R×8.0×S4×45L	0.8	4	R0.2	8	45	1.2	2
2F Rib CR	JHRCR2-1000530	JHRCR2-1.0×0.05R×3.0×S4×50L	1	4	R0.05	3	50	2	2
2F Rib CR	JHRCR2-1000540	JHRCR2-1.0×0.05R×4.0×S4×50L	1	4	R0.05	4	50	2	2
2F Rib CR	JHRCR2-1000560	JHRCR2-1.0×0.05R×6.0×S4×50L	1	4	R0.05	6	50	2	2
2F Rib CR	JHRCR2-1000580	JHRCR2-1.0×0.05R×8.0×S4×50L	1	4	R0.05	8	50	2	2
2F Rib CR	JHRCR2-10005100	JHRCR2-1.0×0.05R×10×S4×50L	1	4	R0.05	10	50	2	2
2F Rib CR	JHRCR2-100130	JHRCR2-1.0×0.1R×3.0×S4×50L	1	4	R0.1	3	50	2	2
2F Rib CR	JHRCR2-100140	JHRCR2-1.0×0.1R×4.0×S4×50L	1	4	R0.1	4	50	2	2
2F Rib CR	JHRCR2-100160	JHRCR2-1.0×0.1R×6.0×S4×50L	1	4	R0.1	6	50	2	2
2F Rib CR	JHRCR2-100180	JHRCR2-1.0×0.1R×8.0×S4×50L	1	4	R0.1	8	50	2	2
2F Rib CR	JHRCR2-1001100	JHRCR2-1.0×0.1R×10×S4×50L	1	4	R0.1	10	50	2	2
2F Rib CR	JHRCR2-100230	JHRCR2-1.0×0.2R×3.0×S4×50L	1	4	R0.2	3	50	2	2
2F Rib CR	JHRCR2-100240	JHRCR2-1.0×0.2R×4.0×S4×50L	1	4	R0.2	4	50	2	2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib CR	JHRCR2-100260	JHRCR2-1.0×0.2R×6.0×S4×50L	1	4	R0.2	6	50	2	2
2F Rib CR	JHRCR2-100280	JHRCR2-1.0×0.2R×8.0×S4×50L	1	4	R0.2	8	50	2	2
2F Rib CR	JHRCR2-1002100	JHRCR2-1.0×0.2R×10×S4×50L	1	4	R0.2	10	50	2	2
2F Rib CR	JHRCR2-100330	JHRCR2-1.0×0.3R×3.0×S4×50L	1	4	R0.3	3	50	2	2
2F Rib CR	JHRCR2-100340	JHRCR2-1.0×0.3R×4.0×S4×50L	1	4	R0.3	4	50	2	2
2F Rib CR	JHRCR2-100360	JHRCR2-1.0×0.3R×6.0×S4×50L	1	4	R0.3	6	50	2	2
2F Rib CR	JHRCR2-100380	JHRCR2-1.0×0.3R×8.0×S4×50L	1	4	R0.3	8	50	2	2
2F Rib CR	JHRCR2-1003100	JHRCR2-1.0×0.3R×10×S4×50L	1	4	R0.3	10	50	2	2
2F Rib CR	JHRCR2-1540	JHRCR2-1.5×0.05R×4.0×S4×50L	1.5	4	R0.05	4	50	2.5	2
2F Rib CR	JHRCR2-1560	JHRCR2-1.5×0.05R×6.0×S4×50L	1.5	4	R0.05	6	50	2.5	2
2F Rib CR	JHRCR2-1580	JHRCR2-1.5×0.05R×8.0×S4×50L	1.5	4	R0.05	8	50	2.5	2
2F Rib CR	JHRCR2-15100	JHRCR2-1.5×0.05R×10×S4×50L	1.5	4	R0.05	10	50	2.5	2
2F Rib CR	JHRCR2-15120	JHRCR2-1.5×0.05R×12×S4×50L	1.5	4	R0.05	12	50	2.5	2
2F Rib CR	JHRCR2-150140	JHRCR2-1.5×0.1R×4.0×S4×50L	1.5	4	R0.1	4	50	2.5	2
2F Rib CR	JHRCR2-150160	JHRCR2-1.5×0.1R×6.0×S4×50L	1.5	4	R0.1	6	50	2.5	2
2F Rib CR	JHRCR2-150180	JHRCR2-1.5×0.1R×8.0×S4×50L	1.5	4	R0.1	8	50	2.5	2
2F Rib CR	JHRCR2-1501100	JHRCR2-1.5×0.1R×10×S4×50L	1.5	4	R0.1	10	50	2.5	2
2F Rib CR	JHRCR2-1501120	JHRCR2-1.5×0.1R×12×S4×50L	1.5	4	R0.1	12	50	2.5	2
2F Rib CR	JHRCR2-150240	JHRCR2-1.5×0.2R×4.0×S4×50L	1.5	4	R0.2	4	50	2.5	2
2F Rib CR	JHRCR2-150260	JHRCR2-1.5×0.2R×6.0×S4×50L	1.5	4	R0.2	6	50	2.5	2
2F Rib CR	JHRCR2-150280	JHRCR2-1.5×0.2R×8.0×S4×50L	1.5	4	R0.2	8	50	2.5	2
2F Rib CR	JHRCR2-1502100	JHRCR2-1.5×0.2R×10×S4×50L	1.5	4	R0.2	10	50	2.5	2
2F Rib CR	JHRCR2-1502120	JHRCR2-1.5×0.2R×12×S4×50L	1.5	4	R0.2	12	50	2.5	2
2F Rib CR	JHRCR2-150340	JHRCR2-1.5×0.3R×4.0×S4×50L	1.5	4	R0.3	4	50	2.5	2
2F Rib CR	JHRCR2-150360	JHRCR2-1.5×0.3R×6.0×S4×50L	1.5	4	R0.3	6	50	2.5	2
2F Rib CR	JHRCR2-150380	JHRCR2-1.5×0.3R×8.0×S4×50L	1.5	4	R0.3	8	50	2.5	2
2F Rib CR	JHRCR2-1503100	JHRCR2-1.5×0.3R×10×S4×50L	1.5	4	R0.3	10	50	2.5	2
2F Rib CR	JHRCR2-1503120	JHRCR2-1.5×0.3R×12×S4×50L	1.5	4	R0.3	12	50	2.5	2
2F Rib CR	JHRCR2-150540	JHRCR2-1.5×0.5R×4.0×S4×50L	1.5	4	R0.5	4	50	2.5	2
2F Rib CR	JHRCR2-150560	JHRCR2-1.5×0.5R×6.0×S4×50L	1.5	4	R0.5	6	50	2.5	2
2F Rib CR	JHRCR2-150580	JHRCR2-1.5×0.5R×8.0×S4×50L	1.5	4	R0.5	8	50	2.5	2
2F Rib CR	JHRCR2-1505100	JHRCR2-1.5×0.5R×10×S4×50L	1.5	4	R0.5	10	50	2.5	2
2F Rib CR	JHRCR2-1505120	JHRCR2-1.5×0.5R×12×S4×50L	1.5	4	R0.5	12	50	2.5	2
2F Rib CR	JHRCR2-200160	JHRCR2-2.0×0.1R×6.0×S4×50L	2	4	R0.1	6	50	3	2
2F Rib CR	JHRCR2-200180	JHRCR2-2.0×0.1R×8.0×S4×50L	2	4	R0.1	8	50	3	2
2F Rib CR	JHRCR2-2001100	JHRCR2-2.0×0.1R×10×S4×50L	2	4	R0.1	10	50	3	2
2F Rib CR	JHRCR2-2001120	JHRCR2-2.0×0.1R×12×S4×50L	2	4	R0.1	12	50	3	2
2F Rib CR	JHRCR2-2001160	JHRCR2-2.0×0.1R×16×S4×50L	2	4	R0.1	16	50	3	2
2F Rib CR	JHRCR2-2001200	JHRCR2-2.0×0.1R×20×S4×50L	2	4	R0.1	20	50	3	2
2F Rib CR	JHRCR2-200260	JHRCR2-2.0×0.2R×6.0×S4×50L	2	4	R0.2	6	50	3	2
2F Rib CR	JHRCR2-200280	JHRCR2-2.0×0.2R×8.0×S4×50L	2	4	R0.2	8	50	3	2
2F Rib CR	JHRCR2-2002100	JHRCR2-2.0×0.2R×10×S4×50L	2	4	R0.2	10	50	3	2
2F Rib CR	JHRCR2-2002120	JHRCR2-2.0×0.2R×12×S4×50L	2	4	R0.2	12	50	3	2
2F Rib CR	JHRCR2-2002160	JHRCR2-2.0×0.2R×16×S4×50L	2	4	R0.2	16	50	3	2
2F Rib CR	JHRCR2-2002200	JHRCR2-2.0×0.2R×20×S4×50L	2	4	R0.2	20	50	3	2
2F Rib CR	JHRCR2-200360	JHRCR2-2.0×0.3R×6.0×S4×50L	2	4	R0.3	6	50	3	2
2F Rib CR	JHRCR2-200380	JHRCR2-2.0×0.3R×8.0×S4×50L	2	4	R0.3	8	50	3	2
2F Rib CR	JHRCR2-2003100	JHRCR2-2.0×0.3R×10×S4×50L	2	4	R0.3	10	50	3	2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib CR	JHRCR2-2003120	JHRCR2-2.0×0.3R×12×S4×50L	2	4	R0.3	12	50	3	2
2F Rib CR	JHRCR2-2003160	JHRCR2-2.0×0.3R×16×S4×50L	2	4	R0.3	16	50	3	2
2F Rib CR	JHRCR2-2003200	JHRCR2-2.0×0.3R×20×S4×50L	2	4	R0.3	20	50	3	2
2F Rib CR	JHRCR2-200560	JHRCR2-2.0×0.5R×6.0×S4×50L	2	4	R0.5	6	50	3	2
2F Rib CR	JHRCR2-200580	JHRCR2-2.0×0.5R×8.0×S4×50L	2	4	R0.5	8	50	3	2
2F Rib CR	JHRCR2-2005100	JHRCR2-2.0×0.5R×10×S4×50L	2	4	R0.5	10	50	3	2
2F Rib CR	JHRCR2-2005120	JHRCR2-2.0×0.5R×12×S4×50L	2	4	R0.5	12	50	3	2
2F Rib CR	JHRCR2-2005160	JHRCR2-2.0×0.5R×16×S4×50L	2	4	R0.5	16	50	3	2
2F Rib CR	JHRCR2-2005200	JHRCR2-2.0×0.5R×20×S4×50L	2	4	R0.5	20	50	3	2
2F Rib CR	JHRCR2-250280	JHRCR2-2.5×0.2R×8.0×S4×55L	2.5	4	R0.2	8	55	3.5	2
2F Rib CR	JHRCR2-2502100	JHRCR2-2.5×0.2R×10×S4×55L	2.5	4	R0.2	10	55	3.5	2
2F Rib CR	JHRCR2-2502120	JHRCR2-2.5×0.2R×12×S4×55L	2.5	4	R0.2	12	55	3.5	2
2F Rib CR	JHRCR2-2502160	JHRCR2-2.5×0.2R×16×S4×55L	2.5	4	R0.2	16	55	3.5	2
2F Rib CR	JHRCR2-250380	JHRCR2-2.5×0.3R×8×S4×55L	2.5	4	R0.3	8	55	3.5	2
2F Rib CR	JHRCR2-2503100	JHRCR2-2.5×0.3R×10×S4×55L	2.5	4	R0.3	10	55	3.5	2
2F Rib CR	JHRCR2-2503120	JHRCR2-2.5×0.3R×12×S4×55L	2.5	4	R0.3	12	55	3.5	2
2F Rib CR	JHRCR2-2503160	JHRCR2-2.5×0.3R×16×S4×55L	2.5	4	R0.3	16	55	3.5	2
2F Rib CR	JHRCR2-250580	JHRCR2-2.5×0.5R×8.0×S4×55L	2.5	4	R0.5	8	55	3.5	2
2F Rib CR	JHRCR2-2505100	JHRCR2-2.5×0.5R×10×S4×55L	2.5	4	R0.5	10	55	3.5	2
2F Rib CR	JHRCR2-2505120	JHRCR2-2.5×0.5R×12×S4×55L	2.5	4	R0.5	12	55	3.5	2
2F Rib CR	JHRCR2-2505160	JHRCR2-2.5×0.5R×16×S4×55L	2.5	4	R0.5	16	55	3.5	2
2F Rib CR	JHRCR2-300180	JHRCR2-3.0×0.1R×8.0×S6×55L	3	6	R0.1	8	55	4.5	2
2F Rib CR	JHRCR2-3001100	JHRCR2-3.0×0.1R×10×S6×55L	3	6	R0.1	10	55	4.5	2
2F Rib CR	JHRCR2-3001120	JHRCR2-3.0×0.1R×12×S6×55L	3	6	R0.1	12	55	4.5	2
2F Rib CR	JHRCR2-3001160	JHRCR2-3.0×0.1R×16×S6×55L	3	6	R0.1	16	55	4.5	2
2F Rib CR	JHRCR2-3001200	JHRCR2-3.0×0.1R×20×S6×60L	3	6	R0.1	20	60	4.5	2
2F Rib CR	JHRCR2-300280	JHRCR2-3.0×0.2R×8.0×S6×55L	3	6	R0.2	8	55	4.5	2
2F Rib CR	JHRCR2-3002100	JHRCR2-3.0×0.2R×10×S6×55L	3	6	R0.2	10	55	4.5	2
2F Rib CR	JHRCR2-3002120	JHRCR2-3.0×0.2R×12×S6×55L	3	6	R0.2	12	55	4.5	2
2F Rib CR	JHRCR2-3002160	JHRCR2-3.0×0.2R×16×S6×55L	3	6	R0.2	16	55	4.5	2
2F Rib CR	JHRCR2-3002200	JHRCR2-3.0×0.2R×20×S6×60L	3	6	R0.2	20	60	4.5	2
2F Rib CR	JHRCR2-300380	JHRCR2-3.0×0.3R×8.0×S6×55L	3	6	R0.3	8	55	4.5	2
2F Rib CR	JHRCR2-3003100	JHRCR2-3.0×0.3R×10×S6×55L	3	6	R0.3	10	55	4.5	2
2F Rib CR	JHRCR2-3003120	JHRCR2-3.0×0.3R×12×S6×55L	3	6	R0.3	12	55	4.5	2
2F Rib CR	JHRCR2-3003160	JHRCR2-3.0×0.3R×16×S6×55L	3	6	R0.3	16	55	4.5	2
2F Rib CR	JHRCR2-3003200	JHRCR2-3.0×0.3R×20×S6×60L	3	6	R0.3	20	60	4.5	2
2F Rib CR	JHRCR2-300580	JHRCR2-3.0×0.5R×8.0×S6×55L	3	6	R0.5	8	55	4.5	2
2F Rib CR	JHRCR2-3005100	JHRCR2-3.0×0.5R×10×S6×55L	3	6	R0.5	10	55	4.5	2
2F Rib CR	JHRCR2-3005120	JHRCR2-3.0×0.5R×12×S6×55L	3	6	R0.5	12	55	4.5	2
2F Rib CR	JHRCR2-3005160	JHRCR2-3.0×0.5R×16×S6×55L	3	6	R0.5	16	55	4.5	2
2F Rib CR	JHRCR2-3005200	JHRCR2-3.0×0.5R×20×S6×60L	3	6	R0.5	20	60	4.5	2
2F Rib CR	JHRCR2-301080	JHRCR2-3.0×1.0R×8.0×S6×55L	3	6	R1	8	55	4.5	2
2F Rib CR	JHRCR2-3010100	JHRCR2-3.0×1.0R×10×S6×55L	3	6	R1	10	55	4.5	2
2F Rib CR	JHRCR2-3010120	JHRCR2-3.0×1.0R×12×S6×55L	3	6	R1	12	55	4.5	2
2F Rib CR	JHRCR2-3010160	JHRCR2-3.0×1.0R×16×S6×55L	3	6	R1	16	55	4.5	2
2F Rib CR	JHRCR2-3010200	JHRCR2-3.0×1.0R×20×S6×60L	3	6	R1	20	60	4.5	2
2F Rib CR	JHRCR2-4001100	JHRCR2-4.0×0.1R×10×S6×55L	4	6	R0.1	10	55	6	2
2F Rib CR	JHRCR2-4001120	JHRCR2-4.0×0.1R×12×S6×55L	4	6	R0.1	12	55	6	2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib CR	JHRCR2-4001160	JHRCR2-4.0×0.1R×16×S6×55L	4	6	R0.1	16	55	6	2
2F Rib CR	JHRCR2-4001200	JHRCR2-4.0×0.1R×20×S6×60L	4	6	R0.1	20	60	6	2
2F Rib CR	JHRCR2-4001250	JHRCR2-4.0×0.1R×25×S6×60L	4	6	R0.1	25	60	6	2
2F Rib CR	JHRCR2-4002100	JHRCR2-4.0×0.2R×10×S6×55L	4	6	R0.2	10	55	6	2
2F Rib CR	JHRCR2-4002120	JHRCR2-4.0×0.2R×12×S6×55L	4	6	R0.2	12	55	6	2
2F Rib CR	JHRCR2-4002160	JHRCR2-4.0×0.2R×16×S6×55L	4	6	R0.2	16	55	6	2
2F Rib CR	JHRCR2-4002200	JHRCR2-4.0×0.2R×20×S6×60L	4	6	R0.2	20	60	6	2
2F Rib CR	JHRCR2-4002250	JHRCR2-4.0×0.2R×25×S6×60L	4	6	R0.2	25	60	6	2
2F Rib CR	JHRCR2-4003100	JHRCR2-4.0×0.3R×10×S6×55L	4	6	R0.3	10	55	6	2
2F Rib CR	JHRCR2-4003120	JHRCR2-4.0×0.3R×12×S6×55L	4	6	R0.3	12	55	6	2
2F Rib CR	JHRCR2-4003160	JHRCR2-4.0×0.3R×16×S6×55L	4	6	R0.3	16	55	6	2
2F Rib CR	JHRCR2-4003200	JHRCR2-4.0×0.3R×20×S6×60L	4	6	R0.3	20	60	6	2
2F Rib CR	JHRCR2-4003250	JHRCR2-4.0×0.3R×25×S6×60L	4	6	R0.3	25	60	6	2
2F Rib CR	JHRCR2-4005100	JHRCR2-4.0×0.5R×10×S6×55L	4	6	R0.5	10	55	6	2
2F Rib CR	JHRCR2-4005120	JHRCR2-4.0×0.5R×12×S6×55L	4	6	R0.5	12	55	6	2
2F Rib CR	JHRCR2-4005160	JHRCR2-4.0×0.5R×16×S6×55L	4	6	R0.5	16	55	6	2
2F Rib CR	JHRCR2-4005200	JHRCR2-4.0×0.5R×20×S6×60L	4	6	R0.5	20	60	6	2
2F Rib CR	JHRCR2-4005250	JHRCR2-4.0×0.5R×25×S6×60L	4	6	R0.5	25	60	6	2
2F Rib CR	JHRCR2-4010100	JHRCR2-4.0×1.0R×10×S6×55L	4	6	R1	10	55	6	2
2F Rib CR	JHRCR2-4010120	JHRCR2-4.0×1.0R×12×S6×55L	4	6	R1	12	55	6	2
2F Rib CR	JHRCR2-4010160	JHRCR2-4.0×1.0R×16×S6×55L	4	6	R1	16	55	6	2
2F Rib CR	JHRCR2-4010200	JHRCR2-4.0×1.0R×20×S6×60L	4	6	R1	20	60	6	2
2F Rib CR	JHRCR2-4010250	JHRCR2-4.0×1.0R×25×S6×60L	4	6	R1	25	60	6	2
2F Rib CR	JHRCR2-6002150	JHRCR2-6.0×0.2R×15×S6×60L	6	6	R0.2	15	60	9	2
2F Rib CR	JHRCR2-6003150	JHRCR2-6.0×0.3R×15×S6×60L	6	6	R0.3	15	60	9	2
2F Rib CR	JHRCR2-6003200	JHRCR2-6.0×0.3R×20×S6×60L	6	6	R0.3	20	60	9	2
2F Rib CR	JHRCR2-6005150	JHRCR2-6.0×0.5R×15×S6×60L	6	6	R0.5	15	60	9	2
2F Rib CR	JHRCR2-6005200	JHRCR2-6.0×0.5R×20×S6×60L	6	6	R0.5	20	60	9	2
2F Rib CR	JHRCR2-6010150	JHRCR2-6.0×1.0R×15×S6×60L	6	6	R1	15	60	9	2
2F Rib CR	JHRCR2-6010200	JHRCR2-6.0×1.0R×20×S6×60L	6	6	R1	20	60	9	2
2F Rib CR	JHRCR2-6015150	JHRCR2-6.0×1.5R×15×S6×60L	6	6	R1.5	15	60	9	2
2F Rib CR	JHRCR2-6020150	JHRCR2-6.0×2.0R×15×S6×60L	6	6	R2	15	60	9	2
2F Rib CR	JHRCR2-8002200	JHRCR2-8.0×0.2R×20×S8×65L	8	8	R0.2	20	65	12	2
2F Rib CR	JHRCR2-8003200	JHRCR2-8.0×0.3R×20×S8×65L	8	8	R0.3	20	65	12	2
2F Rib CR	JHRCR2-8005200	JHRCR2-8.0×0.5R×20×S8×65L	8	8	R0.5	20	65	12	2
2F Rib CR	JHRCR2-8010200	JHRCR2-8.0×1.0R×20×S8×65L	8	8	R1	20	65	12	2
2F Rib CR	JHRCR2-8015200	JHRCR2-8.0×1.5R×20×S8×65L	8	8	R1.5	20	65	12	2
2F Rib CR	JHRCR2-10002250	JHRCR2-10×0.2R×25×S10×70L	10	10	R0.2	25	70	15	2
2F Rib CR	JHRCR2-10003250	JHRCR2-10×0.3R×25×S10×70L	10	10	R0.3	25	70	15	2
2F Rib CR	JHRCR2-10005250	JHRCR2-10×0.5R×25×S10×70L	10	10	R0.5	25	70	15	2
2F Rib CR	JHRCR2-10010250	JHRCR2-10×1.0R×25×S10×70L	10	10	R1	25	70	15	2
2F Rib CR	JHRCR2-10015250	JHRCR2-10×1.5R×25×S10×70L	10	10	R1.5	25	70	15	2
2F Rib CR	JHRCR2-10020250	JHRCR2-10×2.0R×25×S10×70L	10	10	R2	25	70	15	2
2F Rib CR	JHRCR2-12003300	JHRCR2-12×0.3R×30×S12×80L	12	12	R0.3	30	80	18	2
2F Rib CR	JHRCR2-12005300	JHRCR2-12×0.5R×30×S12×80L	12	12	R0.5	30	80	18	2
2F Rib CR	JHRCR2-12010300	JHRCR2-12×1.0R×30×S12×80L	12	12	R1	30	80	18	2
2F Rib CR	JHRCR2-12015300	JHRCR2-12×1.5R×30×S12×80L	12	12	R1.5	30	80	18	2
2F Rib CR	JHRCR2-12020300	JHRCR2-12×2.0R×30×S12×80L	12	12	R2	30	80	18	2

4F RIB CORNER R

WC		35°	d ₁ 0~0.01 d1≤5	d ₂ -0.01 ~0.025 d1>5	r ±0.005 r≤0.5	r ₂ ±0.01 0.5<r≤2
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Rib CR	JHRCR4-100130	JHRCR4-1.0×0.1R×3.0×S4×50L	1	4	R0.1	3	50	2	4
4F Rib CR	JHRCR4-100140	JHRCR4-1.0×0.1R×4.0×S4×50L	1	4	R0.1	4	50	2	4
4F Rib CR	JHRCR4-100160	JHRCR4-1.0×0.1R×6.0×S4×50L	1	4	R0.1	6	50	2	4
4F Rib CR	JHRCR4-100230	JHRCR4-1.0×0.2R×3.0×S4×50L	1	4	R0.2	3	50	2	4
4F Rib CR	JHRCR4-100240	JHRCR4-1.0×0.2R×4.0×S4×50L	1	4	R0.2	4	50	2	4
4F Rib CR	JHRCR4-100260	JHRCR4-1.0×0.2R×6.0×S4×50L	1	4	R0.2	6	50	2	4
4F Rib CR	JHRCR4-100330	JHRCR4-1.0×0.3R×3.0×S4×50L	1	4	R0.3	3	50	2	4
4F Rib CR	JHRCR4-100340	JHRCR4-1.0×0.3R×4.0×S4×50L	1	4	R0.3	4	50	2	4
4F Rib CR	JHRCR4-100360	JHRCR4-1.0×0.3R×6.0×S4×50L	1	4	R0.3	6	50	2	4
4F Rib CR	JHRCR4-150140	JHRCR4-1.5×0.1R×4.0×S4×50L	1.5	4	R0.1	4	50	2.5	4
4F Rib CR	JHRCR4-150160	JHRCR4-1.5×0.1R×6.0×S4×50L	1.5	4	R0.1	6	50	2.5	4
4F Rib CR	JHRCR4-150240	JHRCR4-1.5×0.2R×4.0×S4×50L	1.5	4	R0.2	4	50	2.5	4
4F Rib CR	JHRCR4-150260	JHRCR4-1.5×0.2R×6.0×S4×50L	1.5	4	R0.2	6	50	2.5	4
4F Rib CR	JHRCR4-150340	JHRCR4-1.5×0.3R×4.0×S4×50L	1.5	4	R0.3	4	50	2.5	4
4F Rib CR	JHRCR4-150360	JHRCR4-1.5×0.3R×6.0×S4×50L	1.5	4	R0.3	6	50	2.5	4
4F Rib CR	JHRCR4-200160	JHRCR4-2.0×0.1R×6.0×S4×50L	2	4	R0.1	6	50	3	4
4F Rib CR	JHRCR4-200180	JHRCR4-2.0×0.1R×8.0×S4×50L	2	4	R0.1	8	50	3	4
4F Rib CR	JHRCR4-200260	JHRCR4-2.0×0.2R×6.0×S4×50L	2	4	R0.2	6	50	3	4
4F Rib CR	JHRCR4-200280	JHRCR4-2.0×0.2R×8.0×S4×50L	2	4	R0.2	8	50	3	4
4F Rib CR	JHRCR4-200360	JHRCR4-2.0×0.3R×6.0×S4×50L	2	4	R0.3	6	50	3	4
4F Rib CR	JHRCR4-200380	JHRCR4-2.0×0.3R×8.0×S4×50L	2	4	R0.3	8	50	3	4
4F Rib CR	JHRCR4-200560	JHRCR4-2.0×0.5R×6.0×S4×50L	2	4	R0.5	6	50	3	4
4F Rib CR	JHRCR4-200580	JHRCR4-2.0×0.5R×8.0×S4×50L	2	4	R0.5	8	50	3	4
4F Rib CR	JHRCR4-300180	JHRCR4-3.0×0.1R×8.0×S6×55L	3	6	R0.1	8	55	4	4
4F Rib CR	JHRCR4-3001100	JHRCR4-3.0×0.1R×10×S6×55L	3	6	R0.1	10	55	4	4
4F Rib CR	JHRCR4-3001120	JHRCR4-3.0×0.1R×12×S6×55L	3	6	R0.1	12	55	4	4
4F Rib CR	JHRCR4-3001160	JHRCR4-3.0×0.1R×16×S6×55L	3	6	R0.1	16	55	4	4
4F Rib CR	JHRCR4-3001200	JHRCR4-3.0×0.1R×20×S6×60L	3	6	R0.1	20	60	4	4
4F Rib CR	JHRCR4-300280	JHRCR4-3.0×0.2R×8.0×S6×55L	3	6	R0.2	8	55	4	4
4F Rib CR	JHRCR4-3002100	JHRCR4-3.0×0.2R×10×S6×55L	3	6	R0.2	10	55	4	4
4F Rib CR	JHRCR4-3002120	JHRCR4-3.0×0.2R×12×S6×55L	3	6	R0.2	12	55	4	4
4F Rib CR	JHRCR4-3002160	JHRCR4-3.0×0.2R×16×S6×55L	3	6	R0.2	16	55	4	4
4F Rib CR	JHRCR4-3002200	JHRCR4-3.0×0.2R×20×S6×60L	3	6	R0.2	20	60	4	4
4F Rib CR	JHRCR4-300380	JHRCR4-3.0×0.3R×8.0×S6×55L	3	6	R0.3	8	55	4	4
4F Rib CR	JHRCR4-3003100	JHRCR4-3.0×0.3R×10×S6×55L	3	6	R0.3	10	55	4	4
4F Rib CR	JHRCR4-3003120	JHRCR4-3.0×0.3R×12×S6×55L	3	6	R0.3	12	55	4	4
4F Rib CR	JHRCR4-3003160	JHRCR4-3.0×0.3R×16×S6×55L	3	6	R0.3	16	55	4	4
4F Rib CR	JHRCR4-3003200	JHRCR4-3.0×0.3R×20×S6×60L	3	6	R0.3	20	60	4	4
4F Rib CR	JHRCR4-300580	JHRCR4-3.0×0.5R×8.0×S6×55L	3	6	R0.5	8	55	4	4
4F Rib CR	JHRCR4-3005100	JHRCR4-3.0×0.5R×10×S6×55L	3	6	R0.5	10	55	4	4
4F Rib CR	JHRCR4-3005120	JHRCR4-3.0×0.5R×12×S6×55L	3	6	R0.5	12	55	4	4
4F Rib CR	JHRCR4-3005160	JHRCR4-3.0×0.5R×16×S6×55L	3	6	R0.5	16	55	4	4
4F Rib CR	JHRCR4-3005200	JHRCR4-3.0×0.5R×20×S6×60L	3	6	R0.5	20	60	4	4

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Rib CR	JHRCR4-301080	JHRCR4-3.0×1.0R×8.0×S6×55L	3	6	R1	8	55	4	4
4F Rib CR	JHRCR4-3010100	JHRCR4-3.0×1.0R×10×S6×55L	3	6	R1	10	55	4	4
4F Rib CR	JHRCR4-3010120	JHRCR4-3.0×1.0R×12×S6×55L	3	6	R1	12	55	4	4
4F Rib CR	JHRCR4-3010160	JHRCR4-3.0×1.0R×16×S6×55L	3	6	R1	16	55	4	4
4F Rib CR	JHRCR4-3010200	JHRCR4-3.0×1.0R×20×S6×60L	3	6	R1	20	60	4	4
4F Rib CR	JHRCR4-4001100	JHRCR4-4.0×0.1R×10×S6×55L	4	6	R0.1	10	55	6	4
4F Rib CR	JHRCR4-4001120	JHRCR4-4.0×0.1R×12×S6×55L	4	6	R0.1	12	55	6	4
4F Rib CR	JHRCR4-4001160	JHRCR4-4.0×0.1R×16×S6×55L	4	6	R0.1	16	55	6	4
4F Rib CR	JHRCR4-4001200	JHRCR4-4.0×0.1R×20×S6×60L	4	6	R0.1	20	60	6	4
4F Rib CR	JHRCR4-4001250	JHRCR4-4.0×0.1R×25×S6×60L	4	6	R0.1	25	60	6	4
4F Rib CR	JHRCR4-4002100	JHRCR4-4.0×0.2R×10×S6×55L	4	6	R0.2	10	55	6	4
4F Rib CR	JHRCR4-4002120	JHRCR4-4.0×0.2R×12×S6×55L	4	6	R0.2	12	55	6	4
4F Rib CR	JHRCR4-4002160	JHRCR4-4.0×0.2R×16×S6×55L	4	6	R0.2	16	55	6	4
4F Rib CR	JHRCR4-4002200	JHRCR4-4.0×0.2R×20×S6×60L	4	6	R0.2	20	60	6	4
4F Rib CR	JHRCR4-4002250	JHRCR4-4.0×0.2R×25×S6×60L	4	6	R0.2	25	60	6	4
4F Rib CR	JHRCR4-4003100	JHRCR4-4.0×0.3R×10×S6×55L	4	6	R0.3	10	55	6	4
4F Rib CR	JHRCR4-4003120	JHRCR4-4.0×0.3R×12×S6×55L	4	6	R0.3	12	55	6	4
4F Rib CR	JHRCR4-4003160	JHRCR4-4.0×0.3R×16×S6×55L	4	6	R0.3	16	55	6	4
4F Rib CR	JHRCR4-4003200	JHRCR4-4.0×0.3R×20×S6×60L	4	6	R0.3	20	60	6	4
4F Rib CR	JHRCR4-4003250	JHRCR4-4.0×0.3R×25×S6×60L	4	6	R0.3	25	60	6	4
4F Rib CR	JHRCR4-4005100	JHRCR4-4.0×0.5R×10×S6×55L	4	6	R0.5	10	55	6	4
4F Rib CR	JHRCR4-4005120	JHRCR4-4.0×0.5R×12×S6×55L	4	6	R0.5	12	55	6	4
4F Rib CR	JHRCR4-4005160	JHRCR4-4.0×0.5R×16×S6×55L	4	6	R0.5	16	55	6	4
4F Rib CR	JHRCR4-4005200	JHRCR4-4.0×0.5R×20×S6×60L	4	6	R0.5	20	60	6	4
4F Rib CR	JHRCR4-4005250	JHRCR4-4.0×0.5R×25×S6×60L	4	6	R0.5	25	60	6	4
4F Rib CR	JHRCR4-4010100	JHRCR4-4.0×1.0R×10×S6×55L	4	6	R1	10	55	6	4
4F Rib CR	JHRCR4-4010120	JHRCR4-4.0×1.0R×12×S6×55L	4	6	R1	12	55	6	4
4F Rib CR	JHRCR4-4010160	JHRCR4-4.0×1.0R×16×S6×55L	4	6	R1	16	55	6	4
4F Rib CR	JHRCR4-4010200	JHRCR4-4.0×1.0R×20×S6×60L	4	6	R1	20	60	6	4
4F Rib CR	JHRCR4-4010250	JHRCR4-4.0×1.0R×25×S6×60L	4	6	R1	25	60	6	4
4F Rib CR	JHRCR4-6002150	JHRCR4-6.0×0.2R×15×S6×60L	6	6	R0.2	15	60	9	4
4F Rib CR	JHRCR4-6003150	JHRCR4-6.0×0.3R×15×S6×60L	6	6	R0.3	15	60	9	4
4F Rib CR	JHRCR4-6005150	JHRCR4-6.0×0.5R×15×S6×60L	6	6	R0.5	15	60	9	4
4F Rib CR	JHRCR4-6010150	JHRCR4-6.0×1.0R×15×S6×60L	6	6	R1	15	60	9	4
4F Rib CR	JHRCR4-6015150	JHRCR4-6.0×1.5R×15×S6×60L	6	6	R1.5	15	60	9	4
4F Rib CR	JHRCR4-6020150	JHRCR4-6.0×2.0R×15×S6×60L	6	6	R2	15	60	9	4
4F Rib CR	JHRCR4-8002200	JHRCR4-8.0×0.2R×20×S8×70L	8	8	R0.2	20	70	12	4
4F Rib CR	JHRCR4-8003200	JHRCR4-8.0×0.3R×20×S8×70L	8	8	R0.3	20	70	12	4
4F Rib CR	JHRCR4-8005200	JHRCR4-8.0×0.5R×20×S8×70L	8	8	R0.5	20	70	12	4
4F Rib CR	JHRCR4-8010200	JHRCR4-8.0×1.0R×20×S8×70L	8	8	R1	20	70	12	4
4F Rib CR	JHRCR4-8015200	JHRCR4-8.0×1.5R×20×S8×70L	8	8	R1.5	20	70	12	4
4F Rib CR	JHRCR4-8020200	JHRCR4-8.0×2.0R×20×S8×70L	8	8	R2	20	70	12	4
4F Rib CR	JHRCR4-10002250	JHRCR4-10×0.2R×25×S10×70L	10	10	R0.2	25	70	15	4
4F Rib CR	JHRCR4-10003250	JHRCR4-10×0.3R×25×S10×70L	10	10	R0.3	25	70	15	4
4F Rib CR	JHRCR4-10005250	JHRCR4-10×0.5R×25×S10×70L	10	10	R0.5	25	70	15	4
4F Rib CR	JHRCR4-10010250	JHRCR4-10×1.0R×25×S10×70L	10	10	R1	25	70	15	4
4F Rib CR	JHRCR4-10015250	JHRCR4-10×1.5R×25×S10×70L	10	10	R1.5	25	70	15	4
4F Rib CR	JHRCR4-10020250	JHRCR4-10×2.0R×25×S10×70L	10	10	R2	25	70	15	4

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Rib CR	JHRCR4-12003300	JHRCR4-12×0.3R×30×S12×80L	12	12	R0.3	30	80	18	4
4F Rib CR	JHRCR4-12005300	JHRCR4-12×0.5R×30×S12×80L	12	12	R0.5	30	80	18	4
4F Rib CR	JHRCR4-12010300	JHRCR4-12×1.0R×30×S12×80L	12	12	R1	30	80	18	4
4F Rib CR	JHRCR4-12015300	JHRCR4-12×1.5R×30×S12×80L	12	12	R1.5	30	80	18	4
4F Rib CR	JHRCR4-12020300	JHRCR4-12×2.0R×30×S12×80L	12	12	R2	30	80	18	4

2F FLAT



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Flat	JHF2-0102	JHF2-0.1×0.2×S4×L40	0.1	4		0.2	40		2
2F Flat	JHF2-0101	JHF2-0.1×0.1×S4×L40	0.1	4		0.1	40		2
2F Flat	JHF2-0204	JHF2-0.2×0.4×S4×L40	0.2	4		0.4	40		2
2F Flat	JHF2-0202	JHF2-0.2×0.2×S4×L40	0.2	4		0.2	40		2
2F Flat	JHF2-0306	JHF2-0.3×0.6×S4×L40	0.3	4		0.6	40		2
2F Flat	JHF2-0303	JHF2-0.3×0.3×S4×L40	0.3	4		0.3	40		2
2F Flat	JHF2-0408	JHF2-0.4×0.8×S4×L40	0.4	4		0.8	40		2
2F Flat	JHF2-0404	JHF2-0.4×0.4×S4×L40	0.4	4		0.4	40		2
2F Flat	JHF2-0510	JHF2-0.5×1.0×S4×L40	0.5	4		1	40		2
2F Flat	JHF2-0505	JHF2-0.5×0.5×S4×L40	0.5	4		0.5	40		2
2F Flat	JHF2-0612	JHF2-0.6×1.2×S4×L40	0.6	4		1.2	40		2
2F Flat	JHF2-0606	JHF2-0.6×0.6×S4×L40	0.6	4		0.6	40		2
2F Flat	JHF2-0714	JHF2-0.7×1.4×S4×L40	0.7	4		1.4	40		2
2F Flat	JHF2-0707	JHF2-0.7×0.7×S4×L40	0.7	4		0.7	40		2
2F Flat	JHF2-0816	JHF2-0.8×1.6×S4×L40	0.8	4		1.6	40		2
2F Flat	JHF2-0808	JHF2-0.8×0.8×S4×L40	0.8	4		0.8	40		2
2F Flat	JHF2-0918	JHF2-0.9×1.8×S4×L40	0.9	4		1.8	40		2
2F Flat	JHF2-0909	JHF2-0.9×0.9×S4×L40	0.9	4		0.9	40		2
2F Flat	JHF2-1025	JHF2-1.0×2.5×S6×50L	1	6		2.5	50		2
2F Flat	JHF2-1020	JHF2-1.0×2.0×S6×50L	1	6		2	50		2
2F Flat	JHF2-1030	JHF2-1.0×3.0×S6×50L	1	6		3	50		2
2F Flat	JHF2-1040	JHF2-1.0×4.0×S6×50L	1	6		4	50		2
2F Flat	JHF2-1230	JHF2-1.2×3.0×S6×50L	1.2	6		3	50		2
2F Flat	JHF2-1540	JHF2-1.5×4.0×S6×50L	1.5	6		4	50		2
2F Flat	JHF2-1530	JHF2-1.5×3.0×S6×50L	1.5	6		3	50		2
2F Flat	JHF2-1560	JHF2-1.5×6.0×S6×50L	1.5	6		6	50		2
2F Flat	JHF2-1580	JHF2-1.5×8.0×S6×50L	1.5	6		8	50		2
2F Flat	JHF2-2060	JHF2-2.0×6.0×S6×50L	2	6		6	50		2
2F Flat	JHF2-2040	JHF2-2.0×4.0×S6×50L	2	6		4	50		2
2F Flat	JHF2-2080	JHF2-2.0×8.0×S6×50L	2	6		8	50		2
2F Flat	JHF2-20100	JHF2-2.0×10×S6×50L	2	6		10	50		2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Flat	JHF2-2570	JHF2-2.5×7.0×S6×50L	2.5	6		7	50		2
2F Flat	JHF2-3080	JHF2-3.0×8.0×S6×60L	3	6		8	60		2
2F Flat	JHF2-3060	JHF2-3.0×6.0×S3×70L	3	3		6	70		2
2F Flat	JHF2-30100	JHF2-3.0×10×S6×60L	3	6		10	60		2
2F Flat	JHF2-30120	JHF2-3.0×12×S6×60L	3	6		12	60		2
2F Flat	JHF2-3590	JHF2-3.5×9.0×S6×60L	3.5	6		9	60		2
2F Flat	JHF2-40100	JHF2-4.0×10×S6×60L	4	6		10	60		2
2F Flat	JHF2-4080	JHF2-4.0×8.0×S4×80L	4	4		8	80		2
2F Flat	JHF2-40120	JHF2-4.0×12×S6×60L	4	6		12	60		2
2F Flat	JHF2-40160	JHF2-4.0×16×S6×60L	4	6		16	60		2
2F Flat	JHF2-50130	JHF2-5.0×13×S6×60L	5	6		13	60		2
2F Flat	JHF2-60130	JHF2-6.0×15×S6×60L	6	6		15	60		2
2F Flat	JHF2-70180	JHF2-7.0×18×S8×65L	7	8		18	65		2
2F Flat	JHF2-80190	JHF2-8.0×19×S8×65L	8	8		19	65		2
2F Flat	JHF2-90220	JHF2-9.0×22×S10×70L	9	10		22	70		2
2F Flat	JHF2-100250	JHF2-10×25×S10×70L	10	10		25	70		2
2F Flat	JHF2-110280	JHF2-11×28×S12×80L	11	12		28	80		2
2F Flat	JHF2-120300	JHF2-12×30×S12×80L	12	12		30	80		2

4F FLAT



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Flat	JHF4-1025	JHF4-1.0×2.5×S6×50L	1	6		2.5	50		4
4F Flat	JHF4-1230	JHF4-1.2×3.0×S6×50L	1.2	6		3	50		4
4F Flat	JHF4-1540	JHF4-1.5×4.0×S6×50L	1.5	6		4	50		4
4F Flat	JHF4-2060	JHF4-2.0×6.0×S6×50L	2	6		6	50		4
4F Flat	JHF4-2570	JHF4-2.5×7.0×S6×50L	2.5	6		7	50		4
4F Flat	JHF4-3080	JHF4-3.0×8.0×S6×60L	3	6		8	60		4
4F Flat	JHF4-3590	JHF4-3.5×9.0×S6×60L	3.5	6		9	60		4
4F Flat	JHF4-40100	JHF4-4.0×10×S6×60L	4	6		10	60		4
4F Flat	JHF4-50130	JHF4-5.0×13×S6×60L	5	6		13	60		4
4F Flat	JHF4-60150	JHF4-6.0×15×S6×60L	6	6		15	60		4
4F Flat	JHF4-70180	JHF4-7.0×18×S8×65L	7	8		18	65		4
4F Flat	JHF4-80190	JHF4-8.0×19×S8×65L	8	8		19	65		4
4F Flat	JHF4-90220	JHF4-9.0×22×S10×70L	9	10		22	70		4
4F Flat	JHF4-100250	JHF4-10×25×S10×70L	10	10		25	70		4
4F Flat	JHF4-110280	JHF4-11×28×S12×80L	11	12		28	80		4
4F Flat	JHF4-120300	JHF4-12×30×S12×80L	12	12		30	80		4

2F RIB FLAT



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib Flat	JHRF2-0103	JHRF2-0.1×0.3×S4×45L	0.1	4		0.3	45	0.15	2
2F Rib Flat	JHRF2-0105	JHRF2-0.1×0.5×S4×45L	0.1	4		0.5	45	0.15	2
2F Rib Flat	JHRF2-0205	JHRF2-0.2×0.5×S4×45L	0.2	4		0.5	45	0.3	2
2F Rib Flat	JHRF2-0206	JHRF2-0.2×0.6×S4×45L	0.2	4		0.6	45	0.3	2
2F Rib Flat	JHRF2-0210	JHRF2-0.2×1.0×S4×45L	0.2	4		1	45	0.3	2
2F Rib Flat	JHRF2-0215	JHRF2-0.2×1.5×S4×45L	0.2	4		1.5	45	0.3	2
2F Rib Flat	JHRF2-0310	JHRF2-0.3×1.0×S4×45L	0.3	4		1	45	0.45	2
2F Rib Flat	JHRF2-0315	JHRF2-0.3×1.5×S4×45L	0.3	4		1.5	45	0.45	2
2F Rib Flat	JHRF2-0320	JHRF2-0.3×2.0×S4×45L	0.3	4		2	45	0.45	2
2F Rib Flat	JHRF2-0325	JHRF2-0.3×2.5×S4×45L	0.3	4		2.5	45	0.45	2
2F Rib Flat	JHRF2-0330	JHRF2-0.3×3.0×S4×45L	0.3	4		3	45	0.45	2
2F Rib Flat	JHRF2-0340	JHRF2-0.3×4.0×S4×45L	0.3	4		4	45	0.45	2
2F Rib Flat	JHRF2-0350	JHRF2-0.3×5.0×S4×45L	0.3	4		5	45	0.45	2
2F Rib Flat	JHRF2-0410	JHRF2-0.4×1.0×S4×45L	0.4	4		1	45	0.6	2
2F Rib Flat	JHRF2-0415	JHRF2-0.4×1.5×S4×45L	0.4	4		1.5	45	0.6	2
2F Rib Flat	JHRF2-0420	JHRF2-0.4×2.0×S4×45L	0.4	4		2	45	0.6	2
2F Rib Flat	JHRF2-0425	JHRF2-0.4×2.5×S4×45L	0.4	4		2.5	45	0.6	2
2F Rib Flat	JHRF2-0430	JHRF2-0.4×3.0×S4×45L	0.4	4		3	45	0.6	2
2F Rib Flat	JHRF2-0440	JHRF2-0.4×4.0×S4×45L	0.4	4		4	45	0.6	2
2F Rib Flat	JHRF2-0450	JHRF2-0.4×5.0×S4×45L	0.4	4		5	45	0.6	2
2F Rib Flat	JHRF2-0460	JHRF2-0.4×6.0×S4×45L	0.4	4		6	45	0.6	2
2F Rib Flat	JHRF2-0510	JHRF2-0.5×1.0×S4×45L	0.5	4		1	45	0.7	2
2F Rib Flat	JHRF2-0515	JHRF2-0.5×1.5×S4×45L	0.5	4		1.5	45	0.7	2
2F Rib Flat	JHRF2-0520	JHRF2-0.5×2.0×S4×45L	0.5	4		2	45	0.7	2
2F Rib Flat	JHRF2-0525	JHRF2-0.5×2.5×S4×45L	0.5	4		2.5	45	0.7	2
2F Rib Flat	JHRF2-0530	JHRF2-0.5×3.0×S4×45L	0.5	4		3	45	0.7	2
2F Rib Flat	JHRF2-0540	JHRF2-0.5×4.0×S4×45L	0.5	4		4	45	0.7	2
2F Rib Flat	JHRF2-0550	JHRF2-0.5×5.0×S4×45L	0.5	4		5	45	0.7	2
2F Rib Flat	JHRF2-0560	JHRF2-0.5×6.0×S4×45L	0.5	4		6	45	0.7	2
2F Rib Flat	JHRF2-0580	JHRF2-0.5×8.0×S4×45L	0.5	4		8	45	0.7	2
2F Rib Flat	JHRF2-0620	JHRF2-0.6×2.0×S4×45L	0.6	4		2	45	0.9	2
2F Rib Flat	JHRF2-0630	JHRF2-0.6×3.0×S4×45L	0.6	4		3	45	0.9	2
2F Rib Flat	JHRF2-0640	JHRF2-0.6×4.0×S4×45L	0.6	4		4	45	0.9	2
2F Rib Flat	JHRF2-0650	JHRF2-0.6×5.0×S4×45L	0.6	4		5	45	0.9	2
2F Rib Flat	JHRF2-0660	JHRF2-0.6×6.0×S4×45L	0.6	4		6	45	0.9	2
2F Rib Flat	JHRF2-0680	JHRF2-0.6×8.0×S4×45L	0.6	4		8	45	0.9	2
2F Rib Flat	JHRF2-06100	JHRF2-0.6×10×S4×45L	0.6	4		10	45	0.9	2
2F Rib Flat	JHRF2-0720	JHRF2-0.7×2.0×S4×45L	0.7	4		2	45	1.2	2
2F Rib Flat	JHRF2-0740	JHRF2-0.7×4.0×S4×45L	0.7	4		4	45	1.2	2
2F Rib Flat	JHRF2-0760	JHRF2-0.7×6.0×S4×45L	0.7	4		6	45	1.2	2
2F Rib Flat	JHRF2-0780	JHRF2-0.7×8.0×S4×45L	0.7	4		8	45	1.2	2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib Flat	JHRF2-07100	JHRF2-0.7×10×S4×45L	0.7	4		10	45	1.2	2
2F Rib Flat	JHRF2-07120	JHRF2-0.7×12×S4×45L	0.7	4		12	45	1.2	2
2F Rib Flat	JHRF2-0820	JHRF2-0.8×2.0×S4×45L	0.8	4		2	45	1.2	2
2F Rib Flat	JHRF2-0830	JHRF2-0.8×3.0×S4×45L	0.8	4		3	45	1.2	2
2F Rib Flat	JHRF2-0840	JHRF2-0.8×4.0×S4×45L	0.8	4		4	45	1.2	2
2F Rib Flat	JHRF2-0850	JHRF2-0.8×5.0×S4×45L	0.8	4		5	45	1.2	2
2F Rib Flat	JHRF2-0860	JHRF2-0.8×6.0×S4×45L	0.8	4		6	45	1.2	2
2F Rib Flat	JHRF2-0880	JHRF2-0.8×8.0×S4×45L	0.8	4		8	45	1.2	2
2F Rib Flat	JHRF2-08100	JHRF2-0.8×10×S4×45L	0.8	4		10	45	1.2	2
2F Rib Flat	JHRF2-08120	JHRF2-0.8×12×S4×45L	0.8	4		12	45	1.2	2
2F Rib Flat	JHRF2-1030	JHRF2-1.0×3.0×S4×50L	1	4		3	50	1.5	2
2F Rib Flat	JHRF2-1040	JHRF2-1.0×4.0×S4×50L	1	4		4	50	1.5	2
2F Rib Flat	JHRF2-1050	JHRF2-1.0×5.0×S4×50L	1	4		5	50	1.5	2
2F Rib Flat	JHRF2-1060	JHRF2-1.0×6.0×S4×50L	1	4		6	50	1.5	2
2F Rib Flat	JHRF2-1070	JHRF2-1.0×7.0×S4×50L	1	4		7	50	1.5	2
2F Rib Flat	JHRF2-1080	JHRF2-1.0×8.0×S4×50L	1	4		8	50	1.5	2
2F Rib Flat	JHRF2-10100	JHRF2-1.0×10×S4×50L	1	4		10	50	1.5	2
2F Rib Flat	JHRF2-10120	JHRF2-1.0×12×S4×50L	1	4		12	50	1.5	2
2F Rib Flat	JHRF2-10140	JHRF2-1.0×14×S4×50L	1	4		14	50	1.5	2
2F Rib Flat	JHRF2-10160	JHRF2-1.0×16×S4×50L	1	4		16	50	1.5	2
2F Rib Flat	JHRF2-10180	JHRF2-1.0×18×S4×55L	1	4		18	55	1.5	2
2F Rib Flat	JHRF2-10200	JHRF2-1.0×20×S4×55L	1	4		20	55	1.5	2
2F Rib Flat	JHRF2-1240	JHRF2-1.2×4.0×S4×50L	1.2	4		4	50	1.8	2
2F Rib Flat	JHRF2-1260	JHRF2-1.2×6.0×S4×50L	1.2	4		6	50	1.8	2
2F Rib Flat	JHRF2-1280	JHRF2-1.2×8.0×S4×50L	1.2	4		8	50	1.8	2
2F Rib Flat	JHRF2-12100	JHRF2-1.2×10×S4×50L	1.2	4		10	50	1.8	2
2F Rib Flat	JHRF2-12120	JHRF2-1.2×12×S4×50L	1.2	4		12	50	1.8	2
2F Rib Flat	JHRF2-12160	JHRF2-1.2×16×S4×50L	1.2	4		16	50	1.8	2
2F Rib Flat	JHRF2-1540	JHRF2-1.5×4.0×S4×50L	1.5	4		4	50	2.3	2
2F Rib Flat	JHRF2-1560	JHRF2-1.5×6.0×S4×50L	1.5	4		6	50	2.3	2
2F Rib Flat	JHRF2-1580	JHRF2-1.5×8.0×S4×50L	1.5	4		8	50	2.3	2
2F Rib Flat	JHRF2-15100	JHRF2-1.5×10×S4×50L	1.5	4		10	50	2.3	2
2F Rib Flat	JHRF2-15120	JHRF2-1.5×12×S4×50L	1.5	4		12	50	2.3	2
2F Rib Flat	JHRF2-15140	JHRF2-1.5×14×S4×50L	1.5	4		14	50	2.3	2
2F Rib Flat	JHRF2-15160	JHRF2-1.5×16×S4×50L	1.5	4		16	50	2.3	2
2F Rib Flat	JHRF2-15180	JHRF2-1.5×18×S4×55L	1.5	4		18	55	2.3	2
2F Rib Flat	JHRF2-15200	JHRF2-1.5×20×S4×55L	1.5	4		20	55	2.3	2
2F Rib Flat	JHRF2-2060	JHRF2-2.0×6.0×S4×50L	2	4		6	50	3	2
2F Rib Flat	JHRF2-2080	JHRF2-2.0×8.0×S4×50L	2	4		8	50	3	2
2F Rib Flat	JHRF2-20100	JHRF2-2.0×10×S4×50L	2	4		10	50	3	2
2F Rib Flat	JHRF2-20120	JHRF2-2.0×12×S4×50L	2	4		12	50	3	2
2F Rib Flat	JHRF2-20140	JHRF2-2.0×14×S4×50L	2	4		14	50	3	2
2F Rib Flat	JHRF2-20160	JHRF2-2.0×16×S4×50L	2	4		16	50	3	2
2F Rib Flat	JHRF2-20180	JHRF2-2.0×18×S4×55L	2	4		18	55	3	2
2F Rib Flat	JHRF2-20200	JHRF2-2.0×20×S4×55L	2	4		20	55	3	2
2F Rib Flat	JHRF2-20250	JHRF2-2.0×25×S4×60L	2	4		25	60	3	2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib Flat	JHRF2-20300	JHRF2-2.0×30×S4×70L	2	4		30	70	3	2
2F Rib Flat	JHRF2-2580	JHRF2-2.5×8.0×S4×50L	2.5	4		8	50	4	2
2F Rib Flat	JHRF2-25100	JHRF2-2.5×10×S4×50L	2.5	4		10	50	4	2
2F Rib Flat	JHRF2-25120	JHRF2-2.5×12×S4×50L	2.5	4		12	50	4	2
2F Rib Flat	JHRF2-25160	JHRF2-2.5×16×S4×50L	2.5	4		16	50	4	2
2F Rib Flat	JHRF2-25200	JHRF2-2.5×20×S4×55L	2.5	4		20	55	4	2
2F Rib Flat	JHRF2-3080	JHRF2-3.0×8.0×S6×55L	3	6		8	55	4.5	2
2F Rib Flat	JHRF2-30100	JHRF2-3.0×10×S6×55L	3	6		10	55	4.5	2
2F Rib Flat	JHRF2-30120	JHRF2-3.0×12×S6×55L	3	6		12	55	4.5	2
2F Rib Flat	JHRF2-30140	JHRF2-3.0×14×S6×55L	3	6		14	55	4.5	2
2F Rib Flat	JHRF2-30160	JHRF2-3.0×16×S6×55L	3	6		16	55	4.5	2
2F Rib Flat	JHRF2-30180	JHRF2-3.0×18×S6×60L	3	6		18	60	4.5	2
2F Rib Flat	JHRF2-30200	JHRF2-3.0×20×S6×60L	3	6		20	60	4.5	2
2F Rib Flat	JHRF2-30250	JHRF2-3.0×25×S6×60L	3	6		25	60	4.5	2
2F Rib Flat	JHRF2-30300	JHRF2-3.0×30×S6×70L	3	6		30	70	4.5	2
2F Rib Flat	JHRF2-30350	JHRF2-3.0×35×S6×75L	3	6		35	75	4.5	2
2F Rib Flat	JHRF2-30400	JHRF2-3.0×40×S6×80L	3	6		40	80	4.5	2
2F Rib Flat	JHRF2-40100	JHRF2-4.0×10×S6×55L	4	6		10	55	6	2
2F Rib Flat	JHRF2-40120	JHRF2-4.0×12×S6×55L	4	6		12	55	6	2
2F Rib Flat	JHRF2-40160	JHRF2-4.0×16×S6×55L	4	6		16	55	6	2
2F Rib Flat	JHRF2-40200	JHRF2-4.0×20×S6×60L	4	6		20	60	6	2
2F Rib Flat	JHRF2-40250	JHRF2-4.0×25×S6×60L	4	6		25	60	6	2
2F Rib Flat	JHRF2-40300	JHRF2-4.0×30×S6×70L	4	6		30	70	6	2
2F Rib Flat	JHRF2-40350	JHRF2-4.0×35×S6×75L	4	6		35	75	6	2
2F Rib Flat	JHRF2-40400	JHRF2-4.0×40×S6×80L	4	6		40	80	6	2
2F Rib Flat	JHRF2-50130	JHRF2-5.0×13×S6×60L	5	6		13	60	8	2
2F Rib Flat	JHRF2-50300	JHRF2-5.0×30×S6×90L	5	6		30	90	8	2
2F Rib Flat	JHRF2-60150	JHRF2-6.0×15×S6×60L	6	6		15	60	9	2
2F Rib Flat	JHRF2-60200	JHRF2-6.0×20×S6×80L	6	6		20	80	9	2
2F Rib Flat	JHRF2-60300	JHRF2-6.0×30×S6×100L	6	6		30	100	9	2
2F Rib Flat	JHRF2-80200	JHRF2-8.0×20×S8×65L	8	8		20	65	12	2
2F Rib Flat	JHRF2-80300	JHRF2-8.0×30×S8×80L	8	8		30	80	12	2
2F Rib Flat	JHRF2-80400	JHRF2-8.0×40×S8×100L	8	8		40	100	12	2
2F Rib Flat	JHRF2-100250	JHRF2-10×25×S10×70L	10	10		25	70	15	2
2F Rib Flat	JHRF2-100350	JHRF2-10×35×S10×80L	10	10		35	80	15	2
2F Rib Flat	JHRF2-100450	JHRF2-10×45×S10×100L	10	10		45	100	15	2
2F Rib Flat	JHRF2-120300	JHRF2-12×30×S12×80L	12	12		30	80	18	2
2F Rib Flat	JHRF2-120400	JHRF2-12×40×S12×100L	12	12		40	100	18	2
2F Rib Flat	JHRF2-120500	JHRF2-12×50×S12×120L	12	12		50	120	18	2

2F RIB BALL

WC			35°	d_1 0 ~ 0.01 d1 ≤ 5	d_1 -0.01 ~ -0.025 d1 > 5	r ±0.005 r ≤ 0.5	r ±0.01 0.5 < r ≤ 2
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d	R	L1	L	L2	Z
2F Rib Ball	JHRB2-0102	JHRB2-0.1×0.05R×0.2×S4×45L	0.1	4	0.05	0.2	45	0.1	2
2F Rib Ball	JHRB2-0103	JHRB2-0.1×0.05R×0.3×S4×45L	0.1	4	0.05	0.3	45	0.1	2
2F Rib Ball	JHRB2-0105	JHRB2-0.1×0.05R×0.5×S4×45L	0.1	4	0.05	0.5	45	0.1	2
2F Rib Ball	JHRB2-0206	JHRB2-0.2×0.1R×0.6×S4×45L	0.2	4	0.1	0.6	45	0.2	2
2F Rib Ball	JHRB2-0210	JHRB2-0.2×0.1R×1.0×S4×45L	0.2	4	0.1	1	45	0.2	2
2F Rib Ball	JHRB2-0215	JHRB2-0.2×0.1R×1.5×S4×45L	0.2	4	0.1	1.5	45	0.2	2
2F Rib Ball	JHRB2-0310	JHRB2-0.3×0.15R×1.0×S4×45L	0.3	4	0.15	1	45	0.3	2
2F Rib Ball	JHRB2-0315	JHRB2-0.3×0.15R×1.5×S4×45L	0.3	4	0.15	1.5	45	0.3	2
2F Rib Ball	JHRB2-0320	JHRB2-0.3×0.15R×2.0×S4×45L	0.3	4	0.15	2	45	0.3	2
2F Rib Ball	JHRB2-0325	JHRB2-0.3×0.15R×2.5×S4×45L	0.3	4	0.15	2.5	45	0.3	2
2F Rib Ball	JHRB2-0330	JHRB2-0.3×0.15R×3.0×S4×45L	0.3	4	0.15	3	45	0.3	2
2F Rib Ball	JHRB2-0410	JHRB2-0.4×0.2R×1.0×S4×45L	0.4	4	0.2	1	45	0.4	2
2F Rib Ball	JHRB2-0415	JHRB2-0.4×0.2R×1.5×S4×45L	0.4	4	0.2	1.5	45	0.4	2
2F Rib Ball	JHRB2-0420	JHRB2-0.4×0.2R×2.0×S4×45L	0.4	4	0.2	2	45	0.4	2
2F Rib Ball	JHRB2-0425	JHRB2-0.4×0.2R×2.5×S4×45L	0.4	4	0.2	2.5	45	0.4	2
2F Rib Ball	JHRB2-0430	JHRB2-0.4×0.2R×3.0×S4×45L	0.4	4	0.2	3	45	0.4	2
2F Rib Ball	JHRB2-0440	JHRB2-0.4×0.2R×4.0×S4×45L	0.4	4	0.2	4	45	0.4	2
2F Rib Ball	JHRB2-0450	JHRB2-0.4×0.2R×5.0×S4×45L	0.4	4	0.2	5	45	0.4	2
2F Rib Ball	JHRB2-0510	JHRB2-0.5×0.25R×1.0×S4×45L	0.5	4	0.25	1	45	0.5	2
2F Rib Ball	JHRB2-0515	JHRB2-0.5×0.25R×1.5×S4×45L	0.5	4	0.25	1.5	45	0.5	2
2F Rib Ball	JHRB2-0520	JHRB2-0.5×0.25R×2.0×S4×45L	0.5	4	0.25	2	45	0.5	2
2F Rib Ball	JHRB2-0525	JHRB2-0.5×0.25R×2.5×S4×45L	0.5	4	0.25	2.5	45	0.5	2
2F Rib Ball	JHRB2-0530	JHRB2-0.5×0.25R×3.0×S4×45L	0.5	4	0.25	3	45	0.5	2
2F Rib Ball	JHRB2-0540	JHRB2-0.5×0.25R×4.0×S4×45L	0.5	4	0.25	4	45	0.5	2
2F Rib Ball	JHRB2-0550	JHRB2-0.5×0.25R×5.0×S4×45L	0.5	4	0.25	5	45	0.5	2
2F Rib Ball	JHRB2-0560	JHRB2-0.5×0.25R×6.0×S4×45L	0.5	4	0.25	6	45	0.5	2
2F Rib Ball	JHRB2-0580	JHRB2-0.5×0.25R×8.0×S4×45L	0.5	4	0.25	8	45	0.5	2
2F Rib Ball	JHRB2-0620	JHRB2-0.6×0.3R×2.0×S4×45L	0.6	4	0.3	2	45	0.6	2
2F Rib Ball	JHRB2-0630	JHRB2-0.6×0.3R×3.0×S4×45L	0.6	4	0.3	3	45	0.6	2
2F Rib Ball	JHRB2-0640	JHRB2-0.6×0.3R×4.0×S4×45L	0.6	4	0.3	4	45	0.6	2
2F Rib Ball	JHRB2-0650	JHRB2-0.6×0.3R×5.0×S4×45L	0.6	4	0.3	5	45	0.6	2
2F Rib Ball	JHRB2-0660	JHRB2-0.6×0.3R×6.0×S4×45L	0.6	4	0.3	6	45	0.6	2
2F Rib Ball	JHRB2-0680	JHRB2-0.6×0.3R×8.0×S4×45L	0.6	4	0.3	8	45	0.6	2
2F Rib Ball	JHRB2-06100	JHRB2-0.6×0.3R×10×S4×45L	0.6	4	0.3	10	45	0.6	2
2F Rib Ball	JHRB2-0820	JHRB2-0.8×0.4R×2.0×S4×45L	0.8	4	0.4	2	45	0.8	2
2F Rib Ball	JHRB2-0830	JHRB2-0.8×0.4R×3.0×S4×45L	0.8	4	0.4	3	45	0.8	2
2F Rib Ball	JHRB2-0840	JHRB2-0.8×0.4R×4.0×S4×45L	0.8	4	0.4	4	45	0.8	2
2F Rib Ball	JHRB2-0850	JHRB2-0.8×0.4R×5.0×S4×45L	0.8	4	0.4	5	45	0.8	2
2F Rib Ball	JHRB2-0860	JHRB2-0.8×0.4R×6.0×S4×45L	0.8	4	0.4	6	45	0.8	2
2F Rib Ball	JHRB2-0880	JHRB2-0.8×0.4R×8.0×S4×45L	0.8	4	0.4	8	45	0.8	2
2F Rib Ball	JHRB2-08100	JHRB2-0.8×0.4R×10×S4×45L	0.8	4	0.4	10	45	0.8	2
2F Rib Ball	JHRB2-08120	JHRB2-0.8×0.4R×12×S4×45L	0.8	4	0.4	12	45	0.8	2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib Ball	JHRB2-1030	JHRB2-1.0×0.5R×3.0×S4×50L	1	4	0.5	3	50	1	2
2F Rib Ball	JHRB2-1040	JHRB2-1.0×0.5R×4.0×S4×50L	1	4	0.5	4	50	1	2
2F Rib Ball	JHRB2-1050	JHRB2-1.0×0.5R×5.0×S4×50L	1	4	0.5	5	50	1	2
2F Rib Ball	JHRB2-1060	JHRB2-1.0×0.5R×6.0×S4×50L	1	4	0.5	6	50	1	2
2F Rib Ball	JHRB2-1070	JHRB2-1.0×0.5R×7.0×S4×50L	1	4	0.5	7	50	1	2
2F Rib Ball	JHRB2-1080	JHRB2-1.0×0.5R×8.0×S4×50L	1	4	0.5	8	50	1	2
2F Rib Ball	JHRB2-1090	JHRB2-1.0×0.5R×9.0×S4×50L	1	4	0.5	9	50	1	2
2F Rib Ball	JHRB2-10100	JHRB2-1.0×0.5R×10×S4×50L	1	4	0.5	10	50	1	2
2F Rib Ball	JHRB2-10120	JHRB2-1.0×0.5R×12×S4×50L	1	4	0.5	12	50	1	2
2F Rib Ball	JHRB2-10140	JHRB2-1.0×0.5R×14×S4×50L	1	4	0.5	14	50	1	2
2F Rib Ball	JHRB2-10160	JHRB2-1.0×0.5R×16×S4×50L	1	4	0.5	16	50	1	2
2F Rib Ball	JHRB2-10180	JHRB2-1.0×0.5R×18×S4×55L	1	4	0.5	18	55	1	2
2F Rib Ball	JHRB2-10200	JHRB2-1.0×0.5R×20.×S4×55L	1	4	0.5	20	55	1	2
2F Rib Ball	JHRB2-1240	JHRB2-1.2×0.6R×4.0×S4×50L	1.2	4	0.6	4	50	1.2	2
2F Rib Ball	JHRB2-1260	JHRB2-1.2×0.6R×6.0×S4×50L	1.2	4	0.6	6	50	1.2	2
2F Rib Ball	JHRB2-1280	JHRB2-1.2×0.6R×8.0×S4×50L	1.2	4	0.6	8	50	1.2	2
2F Rib Ball	JHRB2-12100	JHRB2-1.2×0.6R×10×S4×50L	1.2	4	0.6	10	50	1.2	2
2F Rib Ball	JHRB2-12120	JHRB2-1.2×0.6R×12×S4×50L	1.2	4	0.6	12	50	1.2	2
2F Rib Ball	JHRB2-1540	JHRB2-1.5×0.75R×4.0×S4×50L	1.5	4	0.75	4	50	1.5	2
2F Rib Ball	JHRB2-1560	JHRB2-1.5×0.75R×6.0×S4×50L	1.5	4	0.75	6	50	1.5	2
2F Rib Ball	JHRB2-1580	JHRB2-1.5×0.75R×8.0×S4×50L	1.5	4	0.75	8	50	1.5	2
2F Rib Ball	JHRB2-15100	JHRB2-1.5×0.75R×10×S4×50L	1.5	4	0.75	10	50	1.5	2
2F Rib Ball	JHRB2-15120	JHRB2-1.5×0.75R×12×S4×50L	1.5	4	0.75	12	50	1.5	2
2F Rib Ball	JHRB2-15140	JHRB2-1.5×0.75R×14×S4×50L	1.5	4	0.75	14	50	1.5	2
2F Rib Ball	JHRB2-15160	JHRB2-1.5×0.75R×16×S4×50L	1.5	4	0.75	16	50	1.5	2
2F Rib Ball	JHRB2-15180	JHRB2-1.5×0.75R×18×S4×55L	1.5	4	0.75	18	55	1.5	2
2F Rib Ball	JHRB2-15200	JHRB2-1.5×0.75R×20×S4×55L	1.5	4	0.75	20	55	1.5	2
2F Rib Ball	JHRB2-2060	JHRB2-2.0×1.0R×6.0×S4×50L	2	4	1	6	50	3	2
2F Rib Ball	JHRB2-2080	JHRB2-2.0×1.0R×8.0×S4×50L	2	4	1	8	50	3	2
2F Rib Ball	JHRB2-20100	JHRB2-2.0×1.0R×10×S4×50L	2	4	1	10	50	3	2
2F Rib Ball	JHRB2-20120	JHRB2-2.0×1.0R×12×S4×50L	2	4	1	12	50	3	2
2F Rib Ball	JHRB2-20140	JHRB2-2.0×1.0R×14×S4×50L	2	4	1	14	50	3	2
2F Rib Ball	JHRB2-20160	JHRB2-2.0×1.0R×16×S4×50L	2	4	1	16	50	3	2
2F Rib Ball	JHRB2-20180	JHRB2-2.0×1.0R×18×S4×55L	2	4	1	18	55	3	2
2F Rib Ball	JHRB2-20200	JHRB2-2.0×1.0R×20×S4×55L	2	4	1	20	55	3	2
2F Rib Ball	JHRB2-20250	JHRB2-2.0×1.0R×25×S4×60L	2	4	1	25	60	3	2
2F Rib Ball	JHRB2-20300	JHRB2-2.0×1.0R×30×S4×70L	2	4	1	30	70	3	2
2F Rib Ball	JHRB2-2580	JHRB2-2.5×1.25R×8.0×S4×55L	2.5	4	1.25	8	55	3.5	2
2F Rib Ball	JHRB2-25100	JHRB2-2.5×1.25R×10×S4×55L	2.5	4	1.25	10	55	3.5	2
2F Rib Ball	JHRB2-25120	JHRB2-2.5×1.25R×12×S4×55L	2.5	4	1.25	12	55	3.5	2
2F Rib Ball	JHRB2-25160	JHRB2-2.5×1.25R×16×S4×55L	2.5	4	1.25	16	55	3.5	2
2F Rib Ball	JHRB2-25200	JHRB2-2.5×1.25R×20×S4×55L	2.5	4	1.25	20	55	3.5	2
2F Rib Ball	JHRB2-3080	JHRB2-3.0×1.5R×8.0×S6×55L	3	6	1.5	8	55	4	2
2F Rib Ball	JHRB2-30100	JHRB2-3.0×1.5R×10×S6×55L	3	6	1.5	10	55	4	2
2F Rib Ball	JHRB2-30120	JHRB2-3.0×1.5R×12×S6×55L	3	6	1.5	12	55	4	2
2F Rib Ball	JHRB2-30140	JHRB2-3.0×1.5R×14×S6×55L	3	6	1.5	14	55	4	2
2F Rib Ball	JHRB2-30160	JHRB2-3.0×1.5R×16×S6×55L	3	6	1.5	16	55	4	2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Rib Ball	JHRB2-30180	JHRB2-3.0×1.5R×18×S6×60L	3	6	1.5	18	60	4	2
2F Rib Ball	JHRB2-30200	JHRB2-3.0×1.5R×20×S6×60L	3	6	1.5	20	60	4	2
2F Rib Ball	JHRB2-30250	JHRB2-3.0×1.5R×25×S6×60L	3	6	1.5	25	60	4	2
2F Rib Ball	JHRB2-30300	JHRB2-3.0×1.5R×30×S6×70L	3	6	1.5	30	70	4	2
2F Rib Ball	JHRB2-30350	JHRB2-3.0×1.5R×35×S6×75L	3	6	1.5	35	75	4	2
2F Rib Ball	JHRB2-40100	JHRB2-4.0×2.0R×10×S6×55L	4	6	2	10	55	5	2
2F Rib Ball	JHRB2-40120	JHRB2-4.0×2.0R×12×S6×55L	4	6	2	12	55	5	2
2F Rib Ball	JHRB2-40160	JHRB2-4.0×2.0R×16×S6×55L	4	6	2	16	55	5	2
2F Rib Ball	JHRB2-40200	JHRB2-4.0×2.0R×20×S6×60L	4	6	2	20	60	5	2
2F Rib Ball	JHRB2-40250	JHRB2-4.0×2.0R×25×S6×60L	4	6	2	25	60	5	2
2F Rib Ball	JHRB2-40300	JHRB2-4.0×2.0R×30×S6×70L	4	6	2	30	70	5	2
2F Rib Ball	JHRB2-40350	JHRB2-4.0×2.0R×35×S6×75L	4	6	2	35	75	5	2
2F Rib Ball	JHRB2-40400	JHRB2-4.0×2.0R×40×S6×80L	4	6	2	40	80	5	2
2F Rib Ball	JHRB2-50120	JHRB2-5.0×2.5R×12×S6×60L	5	6	2.5	12	60	6	2
2F Rib Ball	JHRB2-50300	JHRB2-5.0×2.5R×30×S6×60L	5	6	2.5	30	60	6	2
2F Rib Ball	JHRB2-60150	JHRB2-6.0×3.0R×15×S6×60L	6	6	3	15	60	8	2
2F Rib Ball	JHRB2-60200	JHRB2-6.0×3.0R×20×S6×60L	6	6	3	20	60	8	2
2F Rib Ball	JHRB2-60300	JHRB2-6.0×3.0R×30×S6×60L	6	6	3	30	60	8	2
2F Rib Ball	JHRB2-60320	JHRB2-6.0×3.0R×32×S6×90L	6	6	3	32	90	8	2
2F Rib Ball	JHRB2-80200	JHRB2-8.0×4.0R×20×S8×80L	8	8	4	20	80	10	2
2F Rib Ball	JHRB2-80150	JHRB2-8.0×4.0R×15×S8×65L	8	8	4	15	65	10	2
2F Rib Ball	JHRB2-80300	JHRB2-8.0×4.0R×30×S8×100L	8	8	4	30	100	10	2
2F Rib Ball	JHRB2-100250	JHRB2-10×5.0R×25×S10×80L	10	10	5	25	80	12	2
2F Rib Ball	JHRB2-100200	JHRB2-10×5.0R×20×S10×60L	10	10	5	20	60	12	2
2F Rib Ball	JHRB2-100350	JHRB2-10×5.0R×35×S10×100L	10	10	5	35	100	12	2
2F Rib Ball	JHRB2-120250	JHRB2-12×6.0R×25×S12×80L	12	12	6	25	80	14	2
2F Rib Ball	JHRB2-120400	JHRB2-12×6.0R×40×S12×110L	12	12	6	40	110	14	2

✦ END MILLS FOR GENERAL MATERIAL

- Superior material, coating, geometry for general materials (HRC 501)
- Excellent quality and performance for mold and parts machining
- Wide range of applications with various geometries and specifications

Product Feature

Apply for optimized material and coating guarantee excellent cutting and tool life in mold and parts for general material machining.

- Improve surface quality, high precision machining with high quality of end mills
- Stable machining with optimized rake-angle and clearance



Recommended Cutting Conditions

Material group	Under HRC30		Under HRC45	
Dia(mm)	RPM	Feed(mm/rev)	RPM	Feed(mm/rev)
2	18,000	1,500	16,000	1200
4	12,000	1,300	10,000	1000
6	10,000	1,600	9,000	1,300
8	8,000	1,500	7,000	1,200
10	6,000	1,000	5,000	800



JEIL SOLUTION GENERAL ENDMILL

2F FLAT



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Flat	JGF2-1025	JGF2-1.0×2.5×S4×40L	1	4	-	2.5	40		2
2F Flat	JGF2-1060	JGF2-1.0×6.0×S6×50L	1	6	-	6	50		2
2F Flat	JGF2-1040	JGF2-1.0×4.0×S6×60L	1	6	-	4	60		2
2F Flat	JGF2-1230	JGF2-1.2×3.0×S4×40L	1.2	4	-	3	40		2
2F Flat	JGF2-1435	JGF2-1.4×3.5×S4×40L	1.4	4	-	3.5	40		2
2F Flat	JGF2-1640	JGF2-1.6×4.0×S4×40L	1.6	4	-	4	40		2
2F Flat	JGF2-1845	JGF2-1.8×4.5×S4×40L	1.8	4	-	4.5	40		2
2F Flat	JGF2-2060	JGF2-2.0×6.0×S4×40L	2	4	-	6	40		2
2F Flat	JGF2-20100	JGF2-2.0×10×S6×60L	2	0	-	10	60		2
2F Flat	JGF2-2580	JGF2-2.5×8.0×S4×45L	2.5	4	-	8	45		2
2F Flat	JGF2-3080	JGF2-3.0×8.0×S6×45L	3	6	-	8	45		2
2F Flat	JGF2-30120	JGF2-3.0×12×S6×70L	3	6	-	12	70		2
2F Flat	JGF2-40110	JGF2-4.0×11×S6×45L	4	6	-	11	45		2
2F Flat	JGF2-50130	JGF2-5.0×13×S6×50L	5	6	-	13	50		2
2F Flat	JGF2-60130	JGF2-6.0×13×S6×50L	6	6	-	13	50		2
2F Flat	JGF2-80190	JGF2-8.0×19×S8×60L	8	8	-	19	60		2
2F Flat	JGF2-100220	JGF2-10×22×S10×70L	10	10	-	22	70		2
2F Flat	JGF2-120260	JGF2-12×26×S12×75L	12	12	-	26	75		2

4F FLAT



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Flat	JGF4-1025	JGF4-1.0×2.5×S4×40L	1	4	-	2.5	40		4
4F Flat	JGF4-1230	JGF4-1.2×3.0×S4×40L	1.2	4	-	3	40		4
4F Flat	JGF4-1540	JGF4-1.5×4.0×S4×40L	1.5	4	-	4	40		4
4F Flat	JGF4-2060	JGF4-2.0×6.0×S4×40L	2	4	-	6	40		4
4F Flat	JGF4-2580	JGF4-2.5×8.0×S4×45L	2.5	4	-	8	45		4
4F Flat	JGF4-3080	JGF4-3.0×8.0×S6×45L	3	6	-	8	45		4
4F Flat	JGF4-40110	JGF4-4.0×11×S6×45L	4	6	-	11	45		4
4F Flat	JGF4-50130	JGF4-5.0×13×S6×50L	5	6	-	13	50		4
4F Flat	JGF4-60130	JGF4-6.0×13×S6×50L	6	6	-	13	50		4
4F Flat	JGF4-60150	JGF4-6.0×15×S6×50L	6	6	-	15	50		4

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Flat	JGF4-60150-1	JGF4-6.0×15×S6×60L	6	6	-	15	60		4
4F Flat	JGF4-80190	JGF4-8.0×19×S8×60L	8	8	-	19	60		4
4F Flat	JGF4-80200	JGF4-8.0×20×S8×60L	8	8	-	20	60		4
4F Flat	JGF4-80200-1	JGF4-8.0×20×S8×70L	8	8	-	20	70		4
4F Flat	JGF4-100220	JGF4-10×22×S10×70L	10	10	-	22	70		4
4F Flat	JGF4-100350	JGF4-10×35×S10×75L	10	10	-	35	75		4
4F Flat	JGF4-100300	JGF4-10×30×S10×75L	10	10	-	30	75		4
4F Flat	JGF4-120260	JGF4-12×26×S12×75L	12	12	-	26	75		4
4F Flat	JGF4-1025-1	JGF4-1.0×2.5×S6×40L	1	6		2.5	40		4
4F Flat	JGF4-1025-2	JGF4-1.0×2.5×S6×60L	1	6		2.5	60		4
4F Flat	JGF4-1025-3	JGF4-1.0×2.5×S6×80L	1	6		2.5	80		4
4F Flat	JGF4-1040	JGF4-1.0×4.0×S6×50L	1	6		4	50		4
4F Flat	JGF4-2060-1	JGF4-2.0×6.0×S6×40L	2	6		6	40		4
4F Flat	JGF4-2060-2	JGF4-2.0×6.0×S6×60L	2	6		6	60		4
4F Flat	JGF4-2060-3	JGF4-2.0×6.0×S6×100L	2	6		6	100		4
4F Flat	JGF4-3080-1	JGF4-3.0×8.0×S4×45L	3	4		8	45		4
4F Flat	JGF4-3080-2	JGF4-3.0×8.0×S6×70L	3	6		8	70		4
4F Flat	JGF4-3080-3	JGF4-3.0×8.0×S6×100L	3	6		8	100		4
4F Flat	JGF4-35100	JGF4-3.5×10×S6×45L	3.5	6		10	45		4
4F Flat	JGF4-40110	JGF4-4.0×11×S4×45L	4	4		11	45		4
4F Flat	JGF4-40110-1	JGF4-4.0×11×S6×70L	4	6		11	70		4
4F Flat	JGF4-4110-2	JGF4-4.0×11×S6×100L	4	6		11	100		4
4F Flat	JGF4-45110	JGF4-4.5×11×S6×45L	4.5	6		11	45		4
4F Flat	JGF4-50130	JGF4-5.0×13×S6×80L	5	6		13	80		4
4F Flat	JGF4-50130-1	JGF4-5.0×13×S6×100L	5	6		13	100		4
4F Flat	JGF4-55130	JGF4-5.5×13×S6×50L	5.5	6		13	50		4
4F Flat	JGF4-60130	JGF4-6.0×13×S6×80L	6	6		13	80		4
4F Flat	JGF4-60130-1	JGF4-6.0×13×S6×100L	6	6		13	100		4
4F Flat	JGF4-65160	JGF4-6.5×16×S8×60L	6.5	8		16	60		4
4F Flat	JGF4-70160	JGF4-7.0×16×S8×60L	7	8		16	60		4
4F Flat	JGF4-75160	JGF4-7.5×16×S8×60L	7.5	8		16	60		4
4F Flat	JGF4-85190	JGF4-8.5×19×S10×70L	8.5	10		19	70		4
4F Flat	JGF4-90190	JGF4-9.0×19×S10×70L	9	10		19	70		4
4F Flat	JGF4-95190	JGF4-9.5×19×S10×70L	9.5	10		19	70		4
4F Flat	JGF4-100250	JGF4-10×25×S10×70L	10	10	-	25	70		4
4F Flat	JGF4-100250-1	JGF4-10×25×S10×75L	10	10		25	75		4
4F Flat	JGF4-105220	JGF4-10.5×22×S12×75L	10.5	12		22	75		4
4F Flat	JGF4-110220	JGF4-11×22×S12×75L	11	12		22	75		4
4F Flat	JGF4-120300	JGF4-12×30×S12×75L	12	12	-	30	75		4
4F Flat	JGF4-120300-1	JGF4-12×30×S12×80L	12	12		30	80		4
4F Flat	JGF4-140260	JGF4-14×26×S14×80L	14	14		26	80		4
4F Flat	JGF4-140260-1	JGF4-14×26×S16×85L	14	16		26	85		4
4F Flat	JGF4-160350	JGF4-16×35×S16×100L	16	16		35	100		4
4F Flat	JGF4-160400	JGF4-16×40×S16×100L	16	16		40	100		4
4F Flat	JGF4-180350	JGF4-18×35×S18×100L	18	18		35	100		4
4F Flat	JGF4-200400	JGF4-20×40×S20×100L	20	20		40	100		4
4F Flat	JGF4-200450	JGF4-20×45×S20×100L	20	20		45	100		4

2F BALL

WC			35°	d_1 0~-0.01	d_1 -0.005~-0.015	r ±0.005	r ±0.01
				$d_1 \leq 5$	$d_1 > 5$	$r \leq 2.5$	$r > 2.5$



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d	R	L1	L	L2	Z
2F Ball	JGB2-100525	JGB2-1.0×0.5R×2.5×S4×50L	1	4	0.5	2.5	50		2
2F Ball	JGB2-201050	JGB2-2.0×1.0R×5.0×S4×50L	2	4	1	5	50		2
2F Ball	JGB2-402080	JGB2-4.0×2.0R×8.0×S4×60L	4	4	2	8	60		2
2F Ball	JGB2-6030120	JGB2-6.0×3.0R×12×S6×80L	6	6	3	12	80		2
2F Ball	JGB2-6030120-1	JGB2-6.0×3.0R×12×S6×90L	6	6	3	12	90		2
2F Ball	JGB2-8040120	JGB2-8.0×4.0R×12×S8×60L	8	8	4	12	60		2
2F Ball	JGB2-8040140	JGB2-8.0×4.0R×14×S8×90L	8	8	4	14	90		2
2F Ball	JGB2-8040140-1	JGB2-8.0×4.0R×14×S8×100L	8	8	4	14	100		2
2F Ball	JGB2-10050180	JGB2-10×5.0R×18×S10×100L	10	10	5	18	100		2
2F Ball	JGB2-12060220	JGB2-12×6.0R×22×S12×110L	12	12	6	22	110		2
2F Ball	JGB2-100525-1	JGB2-1.0×0.5R×2.5×S6×50L	1	6	0.5	2.5	50		2
2F Ball	JGB2-100525-2	JGB2-1.0×0.5R×2.5×S6×70L	1	6	0.5	2.5	70		2
2F Ball	JGB2-100525-3	JGB2-1.0×0.5R×2.5×S6×100L	1	6	0.5	2.5	100		2
2F Ball	JGB2-120630	JGB2-1.2×0.6R×3.0×S4×50L	1.2	4	0.6	3	50		2
2F Ball	JGB2-1507540	JGB2-1.5×0.75R×4.0×S4×50L	1.5	4	0.75	4	50		2
2F Ball	JGB2-1507540-1	JGB2-1.5×0.75R×4.0×S6×50L	1.5	6	0.75	4	50		2
2F Ball	JGB2-1507540-2	JGB2-1.5×0.75R×4.0×S6×70L	1.5	6	0.75	4	70		2
2F Ball	JGB2-1507540-3	JGB2-1.5×0.75R×4.0×S6×100L	1.5	6	0.75	4	100		2
2F Ball	JGB2-201050-1	JGB2-2.0×1.0R×5.0×S6×50L	2	6	1	5	50		2
2F Ball	JGB2-201050-2	JGB2-2.0×1.0R×5.0×S6×75L	2	6	1	5	75		2
2F Ball	JGB2-201050-3	JGB2-2.0×1.0R×5.0×S6×100L	2	6	1	5	100		2
2F Ball	JGB2-2512560	JGB2-2.5×1.25R×6.0×S4×50L	2.5	4	1.25	6	50		2
2F Ball	JGB2-2512560-1	JGB2-2.5×1.25R×6.0×S6×60L	2.5	6	1.25	6	60		2
2F Ball	JGB2-2512560-2	JGB2-2.5×1.25R×6.0×S6×75L	2.5	6	1.25	6	75		2
2F Ball	JGB2-2512560-3	JGB2-2.5×1.25R×6.0×S6×100L	2.5	6	1.25	6	100		2
2F Ball	JGB2-301580	JGB2-3.0×1.5R×8.0×S4×50L	3	4	1.5	8	50		2
2F Ball	JGB2-301580-1	JGB2-3.0×1.5R×8.0×S6×60L	3	6	1.5	8	60		2
2F Ball	JGB2-301580-2	JGB2-3.0×1.5R×8.0×S6×80L	3	6	1.5	8	80		2
2F Ball	JGB2-301580-3	JGB2-3.0×1.5R×8.0×S6×100L	3	6	1.5	8	100		2
2F Ball	JGB2-3517580	JGB2-3.5×1.75R×8.0×S6×60L	3.5	6	1.75	8	60		2
2F Ball	JGB2-402080-1	JGB2-4.0×2.0R×8.0×S4×80L	4	4	2	8	80		2
2F Ball	JGB2-402080-2	JGB2-4.0×2.0R×8.0×S6×70L	4	6	2	8	70		2
2F Ball	JGB2-402080-3	JGB2-4.0×2.0R×8.0×S6×90L	4	6	2	8	90		2
2F Ball	JGB2-402080-4	JGB2-4.0×2.0R×8.0×S6×120L	4	6	2	8	120		2
2F Ball	JGB2-4522580	JGB2-4.5×2.25R×8.0×S6×70L	4.5	6	2.25	8	70		2
2F Ball	JGB2-5025100	JGB2-5.0×2.5R×10×S6×75L	5	6	2.5	10	75		2
2F Ball	JGB2-55275100	JGB2-5.5×2.75R×10×S6×75L	5.5	6	2.75	10	75		2
2F Ball	JGB2-6030100	JGB2-6.0×3.0R×10×S6×60L	6	6	3	10	60		2
2F Ball	JGB2-6030120	JGB2-6.0×3.0R×12×S6×100L	6	6	3	12	100		2
2F Ball	JGB2-6030120-1	JGB2-6.0×3.0R×12×S6×120L	6	6	3	12	120		2
2F Ball	JGB2-7035140	JGB2-7.0×3.5R×14×S8×80L	7	8	3.5	14	80		2
2F Ball	JGB2-8040140	JGB2-8.0×4.0R×14×S8×110L	8	8	4	14	110		2

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F Ball	JGB2-8040140-1	JGB2-8.0×4.0R×14×S8×150L	8	8	4	14	150		2
2F Ball	JGB2-9045160	JGB2-9.0×4.5R×16×S10×100L	9	10	4.5	16	100		2
2F Ball	JGB2-10050150	JGB2-10×5.0R×15×S10×70L	10	10	5	15	70		2
2F Ball	JGB2-10050180	JGB2-10×5.0R×18×S10×120L	10	10	5	18	120		2
2F Ball	JGB2-10050180-1	JGB2-10×5.0R×18×S10×150L	10	10	5	18	150		2
2F Ball	JGB2-10050180-2	JGB2-10×5.0R×18×S10×180L	10	10	5	18	180		2
2F Ball	JGB2-11055200	JGB2-11×5.5R×20×S12×110L	11	12	5.5	20	110		2
2F Ball	JGB2-12060180	JGB2-12×6.0R×18×S12×70L	12	12	6	18	70		2
2F Ball	JGB2-12060220	JGB2-12×6.0R×22×S12×130L	12	12	6	22	130		2

2F CORNER R

WC			35°	d ₁ 0~0.01 d1≤5	d ₁ -0.005 ~0.015 d1>5	r ±0.005 r≤2.5	r ±0.01 r>2.5
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타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
2F CR	JGCR2-100125	JGCR2-1.0×0.1R×2.5×S4×45L	1	4	0.1	2.5	45		2
2F CR	JGCR2-200260	JGCR2-2.0×0.2R×6.0×S4×45L	2	4	0.2	6	45		2
2F CR	JGCR2-300280	JGCR2-3.0×0.2R×8.0×S6×60L	3	6	0.2	8	60		2
2F CR	JGCR2-400290	JGCR2-4.0×0.2R×9.0×S4×60L	4	4	0.2	9	60		2
2F CR	JGCR2-4002100	JGCR2-4.0×0.2R×10×S6×70L	4	6	0.2	10	70		2
2F CR	JGCR2-400390	JGCR2-4.0×0.3R×9.0×S4×80L	4	4	0.3	9	80		2
2F CR	JGCR2-5002130	JGCR2-5.0×0.2R×13×S6×75L	5	6	0.2	13	75		2
2F CR	JGCR2-6003130	JGCR2-6.0×0.3R×13×S6×90L	6	6	0.3	13	90		2
2F CR	JGCR2-6010130	JGCR2-6.0×1.0R×13×S6×90L	6	6	1	13	90		2
2F CR	JGCR2-8005190	JGCR2-8.0×0.5R×19×S8×100L	8	8	0.5	19	100		2
2F CR	JGCR2-8010190	JGCR2-8.0×1.0R×19×S8×120L	8	8	1	19	120		2
2F CR	JGCR2-10005220	JGCR2-10×0.5R×22×S10×100L	10	10	0.5	22	100		2
2F CR	JGCR2-10010220	JGCR2-10×1.0R×22×S10×130L	10	10	1	22	130		2
2F CR	JGCR2-12005260	JGCR2-12×0.5R×26×S12×110L	12	12	0.5	26	110		2

4F CORNER R

WC			35°	d_1 0~0.01	d_1 -0.005 ~0.015	r ±0.005	r ±0.01
				$d_1 \leq 5$	$d_1 > 5$	$r \leq 2.5$	$r > 2.5$



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d	R	L1	L	L2	Z
4F CR	JGCR4-100125	JGCR4-1.0×0.1R×2.5×S04×45L	1	4	0.1	2.5	45		4
4F CR	JGCR4-150140	JGCR4-1.5×0.1R×4.0×S04×45L	1.5	4	0.1	4	45		4
4F CR	JGCR4-200260	JGCR4-2.0×0.2R×6.0×S04×45L	2	4	0.2	6	45		4
4F CR	JGCR4-300280	JGCR4-3.0×0.2R×8.0×S06×60L	3	6	0.2	8	60		4
4F CR	JGCR4-400290	JGCR4-4.0×0.2R×9.0×S04×60L	4	4	0.2	9	60		4
4F CR	JGCR4-4002100	JGCR4-4.0×0.2R×10×S06×70L	4	6	0.2	10	70		4
4F CR	JGCR4-400390	JGCR4-4.0×0.3R×9.0×S04×80L	4	4	0.3	9	80		4
4F CR	JGCR4-4005100	JGCR4-4.0×0.5R×10×S06×70L	4	6	0.5	10	70		4
4F CR	JGCR4-5002130	JGCR4-5.0×0.2R×13×S06×75L	5	6	0.2	13	75		4
4F CR	JGCR4-6002110	JGCR4-6.0×0.2R×11×S06×60L	6	6	0.2	11	60		4
4F CR	JGCR4-6003130	JGCR4-6.0×0.3R×13×S06×80L	6	6	0.3	13	80		4
4F CR	JGCR4-6005130	JGCR4-6.0×0.5R×13×S06×80L	6	6	0.5	13	80		4
4F CR	JGCR4-6010130	JGCR4-6.0×1.0R×13×S06×80L	6	6	1	13	80		4
4F CR	JGCR4-8002160	JGCR4-8.0×0.2R×16×S08×70L	8	8	0.2	16	70		4
4F CR	JGCR4-8005190	JGCR4-8.0×0.5R×19×S08×90L	8	8	0.5	19	90		4
4F CR	JGCR4-8010190	JGCR4-8.0×1.0R×19×S08×110L	8	8	1	19	110		4
4F CR	JGCR4-10002190	JGCR4-10×0.2R×19×S10×75L	10	10	0.2	19	75		4
4F CR	JGCR4-10005220	JGCR4-10×0.5R×22×S10×100L	10	10	0.5	22	100		4
4F CR	JGCR4-10010220	JGCR4-10×1.0R×22×S10×70L	10	10	1	22	70		4
4F CR	JGCR4-10010220-1	JGCR4-10×1.0R×22×S10×120L	10	10	1	22	120		4
4F CR	JGCR4-12003220	JGCR4-12×0.3R×22×S12×80L	12	12	0.3	22	80		4
4F CR	JGCR4-12010260	JGCR4-12×1.0R×26×S12×75L	12	12	1	26	75		4
4F CR	JGCR4-12010260-1	JGCR4-12×1.0R×26×S12×110L	12	12	1	26	110		4
4F CR	JGCR4-12020260	JGCR4-12×2.0R×26×S12×130L	12	12	2	26	130		4

4F FLAT LONG

WC			35°	d_1 0~0.01	d_1 -0.01 ~0.025
				$d_1 \leq 5$	$d_1 > 5$



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d	R	L1	L	L2	Z
4F Flat Long	JGFL4-1030	JGFL4-1.0×3.0×S6×60L	1	6		3	60		4
4F Flat Long	JGFL4-1050	JGFL4-1.0×5.0×S6×60L	1	6		5	60		4
4F Flat Long	JGFL4-1560	JGFL4-1.5×6.0×S6×60L	1.5	6		6	60		4
4F Flat Long	JGFL4-1580	JGFL4-1.5×8.0×S6×60L	1.5	6		8	60		4
4F Flat Long	JGFL4-2080	JGFL4-2.0×8.0×S6×60L	2	6		8	60		4
4F Flat Long	JGFL4-20100	JGFL4-2.0×10×S6×60L	2	6		10	60		4

타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
4F Flat Long	JGFL4-30100	JGFL4-3.0×10×S6×70L	3	6		10	70		4
4F Flat Long	JGFL4-30150	JGFL4-3.0×15×S6×70L	3	6		15	70		4
4F Flat Long	JGFL4-30200	JGFL4-3.0×20×S6×70L	3	6		20	70		4
4F Flat Long	JGFL4-30250	JGFL4-3.0×25×S6×70L	3	6		25	70		4
4F Flat Long	JGFL4-40120	JGFL4-4.0×12×S6×70L	4	6		12	70		4
4F Flat Long	JGFL4-40150	JGFL4-4.0×15×S6×70L	4	6		15	70		4
4F Flat Long	JGFL4-40200	JGFL4-4.0×20×S6×70L	4	6		20	70		4
4F Flat Long	JGFL4-40250	JGFL4-4.0×25×S6×70L	4	6		25	70		4
4F Flat Long	JGFL4-40300	JGFL4-4.0×30×S6×75L	4	6		30	75		4
4F Flat Long	JGFL4-50200	JGFL4-5.0×20×S6×70L	5	6		20	70		4
4F Flat Long	JGFL4-50250	JGFL4-5.0×25×S6×75L	5	6		25	75		4
4F Flat Long	JGFL4-50300	JGFL4-5.0×30×S6×80L	5	6		30	80		4
4F Flat Long	JGFL4-60200	JGFL4-6.0×20×S6×75L	6	6		20	75		4
4F Flat Long	JGFL4-60200-1	JGFL4-6.0×20×S6×100L	6	6		20	100		4
4F Flat Long	JGFL4-60250	JGFL4-6.0×25×S6×75L	6	6		25	75		4
4F Flat Long	JGFL4-60300	JGFL4-6.0×30×S6×80L	6	6		30	80		4
4F Flat Long	JGFL4-60350	JGFL4-6.0×35×S6×80L	6	6		35	80		4
4F Flat Long	JGFL4-80250	JGFL4-8.0×25×S8×75L	8	8		25	75		4
4F Flat Long	JGFL4-80250-1	JGFL4-8.0×25×S8×100L	8	8		25	100		4
4F Flat Long	JGFL4-80300	JGFL4-8.0×30×S8×80L	8	8		30	80		4
4F Flat Long	JGFL4-80350	JGFL4-8.0×35×S8×90L	8	8		35	90		4
4F Flat Long	JGFL4-80400	JGFL4-8.0×40×S8×90L	8	8		40	90		4
4F Flat Long	JGFL4-80450	JGFL4-8.0×45×S8×100L	8	8		45	100		4
4F Flat Long	JGFL4-100300	JGFL4-10×30×S10×80L	10	10		30	80		4
4F Flat Long	JGFL4-100300-1	JGFL4-10×30×S10×110L	10	10		30	110		4
4F Flat Long	JGFL4-100350	JGFL4-10×35×S10×90L	10	10		35	90		4
4F Flat Long	JGFL4-100400	JGFL4-10×40×S10×90L	10	10		40	90		4
4F Flat Long	JGFL4-100500	JGFL4-10×50×S10×100L	10	10		50	100		4
4F Flat Long	JGFL4-100600	JGFL4-10×60×S10×110L	10	10		60	110		4
4F Flat Long	JGFL4-120300	JGFL4-12×30×S12×90L	12	12		30	90		4
4F Flat Long	JGFL4-120350	JGFL4-12×35×S12×110L	12	12		35	110		4
4F Flat Long	JGFL4-120400	JGFL4-12×40×S12×100L	12	12		40	100		4
4F Flat Long	JGFL4-120500	JGFL4-12×50×S12×100L	12	12		50	100		4
4F Flat Long	JGFL4-120600	JGFL4-12×60×S12×110L	12	12		60	110		4
4F Flat Long	JGFL4-120700	JGFL4-12×70×S12×130L	12	12		70	130		4
4F Flat Long	JGFL4-140500	JGFL4-14×50×S14×110L	14	14		50	110		4
4F Flat Long	JGFL4-160550	JGFL4-16×55×S16×120L	16	16		55	120		4
4F Flat Long	JGFL4-160700	JGFL4-16×70×S16×130L	16	16		70	130		4
4F Flat Long	JGFL4-180800	JGFL4-18×80×S18×160L	18	18		80	160		4
4F Flat Long	JGFL4-200500	JGFL4-20×50×S20×160L	20	20		50	160		4
4F Flat Long	JGFL4-200600	JGFL4-20×60×S20×130L	20	20		60	130		4
4F Flat Long	JGFL4-2001000	JGFL4-20×100×S20×200L	20	20		100	200		4

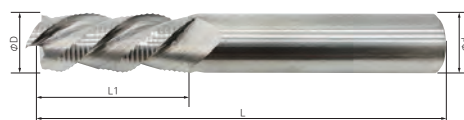
JEIL SOLUTION ALUMINIUM ENDMILL

3F 45 ANGLE FLAT



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
3F 45 Angle Flat	JAF3-1030	JAF3-1.0×3.0×S6×50L	1	6		3	50		3
3F 45 Angle Flat	JAF3-1260	JAF3-1.2×6.0×S6×60L	1	6		6	60		3
3F 45 Angle Flat	JAF3-1550	JAF3-1.5×5.0×S6×50L	1.5	6		5	50		3
3F 45 Angle Flat	JAF3-1560	JAF3-1.5×6.0×S6×60L	1.5	6		6	60		3
3F 45 Angle Flat	JAF3-2060	JAF3-2.0×6.0×S6×50L	2	6		6	50		3
3F 45 Angle Flat	JAF3-2080	JAF3-2.0×8.0×S6×60L	2	6		8	60		3
3F 45 Angle Flat	JAF3-20100	JAF3-2.0×10×S6×60L	2	6		10	60		3
3F 45 Angle Flat	JAF3-20120	JAF3-2.0×12×S6×60L	2	6		12	60		3
3F 45 Angle Flat	JAF3-25100	JAF3-2.5×10×S6×55L	2.5	6		10	55		3
3F 45 Angle Flat	JAF3-30110	JAF3-3.0×11×S6×55L	3	6		11	55		3
3F 45 Angle Flat	JAF3-30150	JAF3-3.0×15×S6×65L	3	6		15	65		3
3F 45 Angle Flat	JAF3-30200	JAF3-3.0×20×S6×70L	3	6		20	70		3
3F 45 Angle Flat	JAF3-40130	JAF3-4.0×13×S6×55L	4	6		13	55		3
3F 45 Angle Flat	JAF3-40160	JAF3-4.0×16×S6×65L	4	6		16	65		3
3F 45 Angle Flat	JAF3-40200	JAF3-4.0×20×S6×70L	4	6		20	70		3
3F 45 Angle Flat	JAF3-50170	JAF3-5.0×17×S8×55L	5	8		17	55		3
3F 45 Angle Flat	JAF3-60170	JAF3-6.0×17×S8×60L	6	8		17	60		3
3F 45 Angle Flat	JAF3-60220	JAF3-6.0×22×S8×60L	6	8		22	60		3
3F 45 Angle Flat	JAF3-60250	JAF3-6.0×25×S8×70L	6	8		25	70		3
3F 45 Angle Flat	JAF3-60300	JAF3-6.0×30×S8×75L	6	8		30	75		3
3F 45 Angle Flat	JAF3-80220	JAF3-8.0×22×S8×70L	8	8		22	70		3
3F 45 Angle Flat	JAF3-80300	JAF3-8.0×30×S8×80L	8	8		30	80		3
3F 45 Angle Flat	JAF3-100270	JAF3-10×27×S10×75L	10	10		27	75		3
3F 45 Angle Flat	JAF3-100320	JAF3-10×32×S10×90L	10	10		32	90		3
3F 45 Angle Flat	JAF3-100350	JAF3-10×35×S10×90L	10	10		35	90		3
3F 45 Angle Flat	JAF3-100400	JAF3-10×40×S10×90L	10	10		40	90		3
3F 45 Angle Flat	JAF3-120320	JAF3-12×32×S12×80L	12	12		32	80		3
3F 45 Angle Flat	JAF3-120400	JAF3-12×40×S12×95L	12	12		40	95		3
3F 45 Angle Flat	JAF3-120450	JAF3-12×45×S12×100L	12	12		45	100		3

3F 45 ANGLE ROUGHING



타입	제일 코드	형번	날경	생크	R	날장	전장	유효장	날수
Type	EDP order No.	Item Full code	D	d		L1	L	L2	Z
3F Roughing	JAFR3-40100	JAFR3-4.0×10×S6×55L	4	6		10	55		3
3F Roughing	JAFR3-50150	JAFR3-5.0×15×S6×55L	5	6		15	55		3
3F Roughing	JAFR3-60150	JAFR3-6.0×15×S6×60L	6	6		15	60		3
3F Roughing	JAFR3-60200	JAFR3-6.0×20×S6×70L	6	6		8(20)	70		3
3F Roughing	JAFR3-60250	JAFR3-6.0×25×S6×80L	6	6		25	80		3
3F Roughing	JAFR3-80200	JAFR3-8.0×20×S8×65L	8	8		20	65		3
3F Roughing	JAFR3-80260	JAFR3-8.0×26×S8×80L	8	8		10(26)	80		3
3F Roughing	JAFR3-80300	JAFR3-8.0×30×S8×90L	8	8		30	90		3
3F Roughing	JAFR3-100250	JAFR3-10×25×S10×70L	10	10		25	70		3
3F Roughing	JAFR3-100320	JAFR3-10×32×S10×90L	10	10		12(32)	90		3
3F Roughing	JAFR3-100400	JAFR3-10×40×S10×100L	10	10		40	100		3
3F Roughing	JAFR3-120300	JAFR3-12×30×S12×80L	12	12		30	80		3
3F Roughing	JAFR3-120360	JAFR3-12×36×S12×100L	12	12		14(36)	100		3
3F Roughing	JAFR3-120500	JAFR3-12×50×S12×110L	12	12		50	110		3



JEIL
SOLUTION
CUTTING
TOOLS



✦ CARBIDE ENDMILLS SERIES FOR HARDENED STEEL

Product Feature

- Specially designed for machining high hardened material (HRC50~70)
- Excellent quality and performance for automotive and mold industry
- Apply optimal design for cutting edge and coating improve wear resistance and toughness



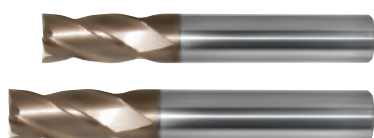
JHB Series
2Flute Ball
Size Range OD 0.1mm~12mm

		30° HELIX	
d1 -0.01~0	d1 -0.015 ~-0.005	r ±0.005	r ±0.01
d1≤6	6<d1	r≤3	3<r



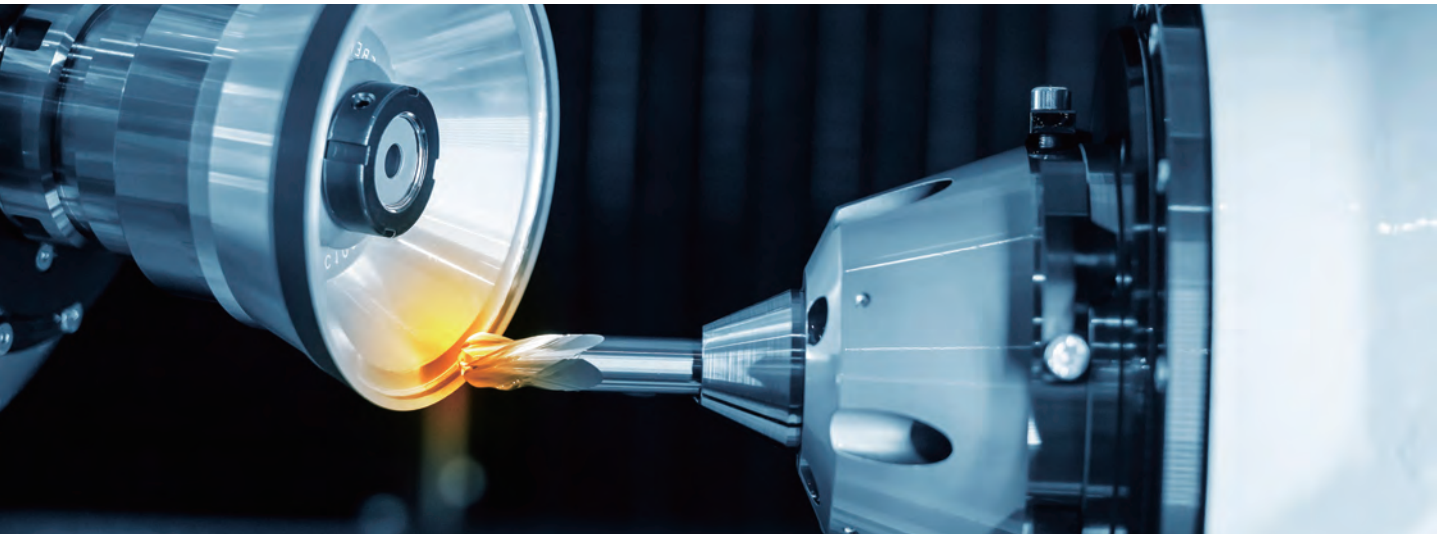
JHCR Series
2Flute, 4Flute Corner Radius
2F CR Size Range OD 0.4mm~12mm
4F CR Size Range OD 1.0mm~12mm

		30° HELIX		
d1 -0.01~0	d1 -0.015 ~0.005	r ±0.005	r ±0.01	r ±0.01
d1≤6	6<d1	r≤0.5	0.5<r<2	2≤r



JHF Series
2Flute, 4Flute Flat
2F Flat Size Range OD 0.1mm~12mm
4F Flat Size Range OD 1.0mm~12mm

		30° HELIX	
d1 -0.01~0	d1 -0.025 ~-0.01		
d1≤6	6<d1		



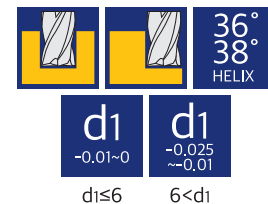
➤ CARBIDE ENDMILLS SERIES FOR STAINLESS STEEL

Product Feature

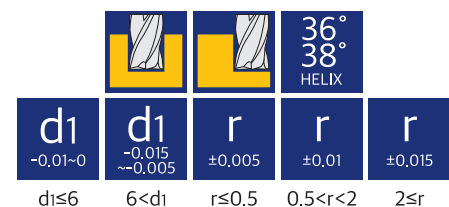
- Superior material, coating, geometry for stainless steel & Ni based alloy & Ti alloy machining
- Excellent performance in ISO M, S group
- Wide range of applications with various geometries and specifications



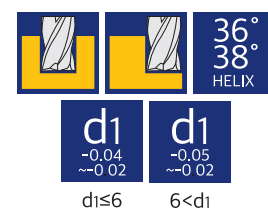
**JSF Series
4Flute Flat**
Size Range OD 1.0~20.0mm



**JSCR Series
4Flute Corner Radius**
Size Range OD 1.0~20.0mm



**JSFR Series
3~5Flute Roughing**
Size Range 3.0mm~20.0mm





JEIL SOLUTION INDEXABLE BALL INSERTS

**JSHB / JCHC / JSDB Compatible
with Hitachi & Dijet Holder**

**Indexable end mills series for hardened materials of
mold steel machining**

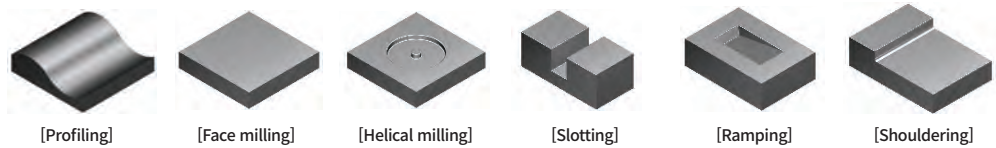
- New coating layer with nano grade : specially designed for mold steel machining
- Excellent performance with optimal geometry
- Wide range of machining application various geometries and specifications

JEIL SOLUTION Indexable Ball Inserts

Product Feature

- High precision in R (ball type : 0.01 / corner R type : 0.015)
- Wide range of applications with various geometries and specifications
- Excellent quality and performance for mold and parts machining

Applications



Step of clamping method



• Follow this procedure for optimal precision

- 1 Cleaning the clamping space.
(Use air blow)
- 2 Inserts numbering face forward. Insert the insert to holder and tighten the screw.
- 3 Tighten the screw using the torque wrench at a given torque . Don't push the insert during tightening.
- 4 Clamping complete.

• Clamping Torque power given

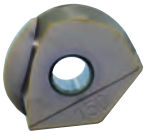
Designation		Tightening
Ball Type	Corner R Type	Torque (N . M)
JSHB-5R	JSHC-100-110-R	1.8
JSHB-6R	JSHC-120-130-R	3.7
JSHB-8R	JSHC-160-170-R	3.7
JSHB-10R	JSHC-200-210-R	3.8
JSHB-12.5R	JSHC-250-260-R	5.2
JSHB-15R	JSHC-300-R	5.7

Geometries features

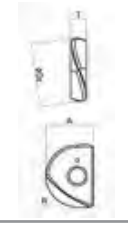
	Type	Geometry	Application	Features
JSHB	Ball		Hardened material (HRC 50 ↑)	• H Enhanced wear resistance with special geometries • Better tool life and edge strength by applying negative rake angle(α°) • Applied clearance angle(β°) suitable for hardened machining
JSHC	Corner R			• Available various corner R size • Optimal shape, grade, coating for machining over HRC50 • High quality workpiece's roughness

JEIL SOLUTION INDEXABLE BALL CUTTER INSERTS

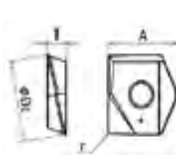
HITACHI BALL INSERT

Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		R-Size	Material (재종)	Configuration (제품 형상)
		D(파이)	A(높이)			
	JSHB-5R-JI0085	10.0/11.0	12.2	5R	JI0085	
	JSHB-5.5R-JI0085	10.0/11.0	12	5.5R	JI0085	
	JSHB-6R-JI0085	12.0/13.0	14.6	6R	JI0085	
	JSHB-6.5R-JI0085	12.0/13.0	14.6	6.5R	JI0085	
	JSHB-8R-JI0085	16.0/17.0	16.6	8R	JI0085	
	JSHB-8.5R-JI0085	16.0/17.0	17.1	8.5R	JI0085	
	JSHB-10R-JI0085	20.0/21.0	20.3	10R	JI0085	
	JSHB-10.5R-JI0085	20.0/21.0	20.8	10.5R	JI0085	
	JSHB-12.5R-JI0085	25	24.1	12.5R	JI0085	
	JSHB-13R-JI0085	26	24.6	13R	JI0085	
	JSHB-15R-JI0085	30	29.2	15R	JI0085	
	JSHB-16R-JI0085	32	30.2	16R	JI0085	

DIJET BALL INSERT

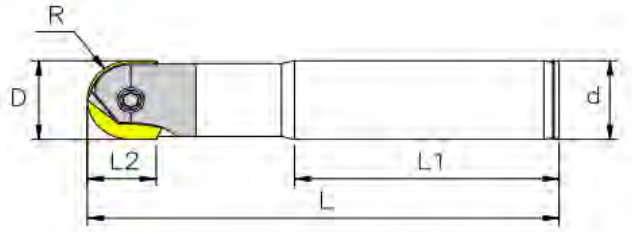
Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		R-Size	Material (재종)	Configuration (제품 형상)
		D(파이)	A(높이)			
	JSDB-5R-JI0085	10	8.5	5R	JI0085	
	JSDB-6R-JI0085	12	10	6R	JI0085	
	JSDB-8R-JI0085	16	12	8R	JI0085	
	JSDB-10R-JI0085	20	15	10R	JI0085	
	JSDB-12.5R-JI0085	25	18.5	12.5R	JI0085	
	JSDB-15R-JI0085	30	22.5	15R	JI0085	

HITACHI BALL CORNER R

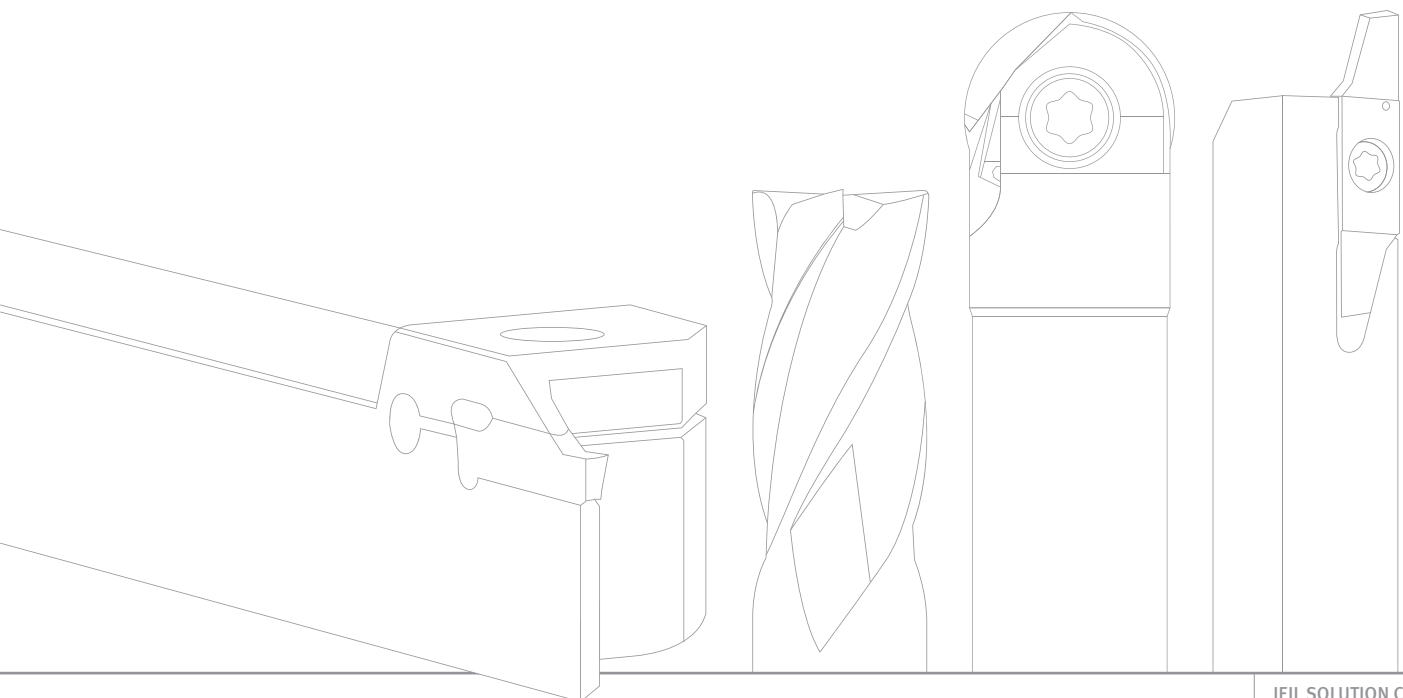
Type (타입)	Jeil Item Code (형번)	Item sizes(규격 사이즈)		R-Size	Material (재종)	Configuration (제품 형상)
		D(파이)	A(높이)			
	JSHC-100(R)-JI0085	10	12.1	R0.5/R1.0	JI0085	
	JSHC-110(R)-JI0085	11	12.1	R0.5/R1.0	JI0085	
	JSHC-120(R)-JI0085	12	14.6	R0.5/R1.0	JI0085	
	JSHC-130(R)-JI0085	13	14.6	R0.5/R1.0	JI0085	
	JSHC-160(R)-JI0085	16	16.6	R0.5/R1.0/R2.0/R3.0	JI0085	
	JSHC-170(R)-JI0085	17	16.4	R0.5/R1.0/R2.0/R3.0	JI0085	
	JSHC-200(R)-JI0085	20	19.8	R0.5/R1.0/R2.0	JI0085	
	JSHC-210(R)-JI0085	21	19.8	R0.5/R1.0/R2.0/R3.0	JI0085	
	JSHC-250(R)-JI0085	25	22.6	R0.5/R1.0/R2.0	JI0085	
	JSHC-260(R)-JI0085	26	22.6	R0.5/R1.0/R1.5/R2.0	JI0085	
	JSHC-300(R)-JI0085	30	27.2	R0.5/R1.0/R2.0	JI0085	
	JSHB-16R-JI0085	32	30.2	16R	JI0085	

• **Attention** : when ordering Corner R type, should be offered correct corner R size. Basically

JEIL SOLUTION ABP CARBIDE HOLDER



Order No. (주문번호)	Dimension(치수)								
	R	D	d	L	L2	L1			
ABP-R0510150C	5	10	10	150	7	136	JSHB 5R / JCHC100	TSB-5842	TXT-10
ABP-R0510180C	5	10	10	180	7	166			
ABP-R0612165C	6	12	12	165	8	147			
ABP-R0612200C	6	12	12	200	8	182	JSHB 6R / JCHC120	TSB-5843	TXT-20
ABP-R0816200C	8	16	16	200	10	180			
ABP-R0816250C	8	16	16	250	10	230			
ABP-R1020220C	10	20	20	220	12.5	193	JSHB 8R / JCHC160	TSB-5844	TXT-20
ABP-R1020250C	10	20	20	250	12.5	223			
ABP-R1020300C	10	20	20	300	12.5	273			
ABP-R1225200C	12.5	25	25	200	15	170	JSHB 10R / JCHC200	TSB-5845	TXT-25
ABP-R1225250C	12.5	25	25	250	15	220			
ABP-R1225300C	12.5	25	25	300	15	270			
ABP-R1530200C	15	30	30	200	18	160	JSHB 12.5R / JCHC250	TSB-5846	TXT-30
ABP-R1530250C	15	30	30	250	18	210			
ABP-R1530300C	15	30	30	300	18	260			
ABP-R1632200C	16	32	32	200	19	160	JSHB 15R / JCHC300	TSB-5847	TXT-30
ABP-R1632250C	16	32	32	250	19	210			
ABP-R1632300C	16	32	32	300	19	260			



JEIL SOLUTION BALL CUTTER CUTTING DATA

Material 소재	Grade 재종	Cutting Speed(Vc) 절삭 속도	Feed Rate 이송속도	D8		D10		D12	
				min	mm/min	min	mm/min	min	mm/min
Carbon steel Alloy Steel 탄소강/합금강	PCS08M (PCA08M)	100 ~ 200	0.2 ~ 0.3	6,370	2,550	5,090	2,040	4,240	1,700
				Vc = 160m/min fz = 0.2mm/tooth ap = 0.025mm ae = 0.1D					
	PCS08M (PCA08M)	80 ~ 150	0.2 ~ 0.3	4,770	1,910	3,820	1,530	3,180	1,270
				Vc=120m/min fz=0.2mm/tooth ap=0.025mm ae=0.1D					
Carbon steel Alloy Steel 탄소강/합금강	PTH08M (PCA12M) (PCA08M)	70 ~ 100	0.1 ~ 0.15	3,180	640	2,550	510	2,120	420
				Vc = 80m/min fz = 0.1mm/tooth ap = 0.025mm ae = 0.1D					
Harded Steel 조질강	PTH08M	200 ~ 250	0.2 ~ 0.4	9,150	3,660	7,320	2,930	6,100	2,440
				Vc = 230m/min fz = 0.2mm/tooth ap = 0.01mm ae = 0.02D					
Cast Iron 주철	PTH08M (PCA12M) (PCA08M)	200 ~ 250	0.2 ~ 0.4	6,370	3,820	5,090	3,050	4,240	2,550
				Vc = 230m/min f z = 0.2mm/tooth ap = 0.01mm ae = 0.02D					

Material 소재	Grade 재종	Cutting Speed(Vc) 절삭 속도	Feed Rate 이송속도	D16		D20		D25		D30(D32)	
				min	mm/min	min	mm/min	min	mm/min	min	mm/min
Carbon steel Alloy Steel 탄소강/합금강	PCS08M (PCA08M)	100 ~ 200	0.2 ~ 0.3	3,180	1,600	2,550	1,300	2,050	1,030	1,700	850
				Vc = 160m/min fz = 0.25mm/tooth ap = 0.05mm ae = 0.1D							
	PCS08M (PCA08M)	80 ~ 150	0.2 ~ 0.3	2,390	1,200	1,910	955	1,530	765	1,280	640
				Vc=80m/min fz=0.12mm/tooth ap=0.05mm ae=0.1D							
Carbon steel Alloy Steel 탄소강/합금강	PTH08M (PCA12M) (PCA08M)	70 ~ 100	0.1 ~ 0.15	3,180	640	2,550	510	2,120	420	4,240	1,700
				Vc = 80m/min fz = 0.1mm/tooth ap = 0.025mm ae = 0.1D							
Harded Steel 조질강	PTH08M	200 ~ 250	0.2 ~ 0.4	9,150	3,660	7,320	2,930	6,100	2,440	4,240	1,700
				Vc = 230m/min fz = 0.3mm/tooth ap = 0.01mm ae = 0.02D							
Cast Iron 주철	PTH08M (PCA12M) (PCA08M)	200 ~ 250	0.2 ~ 0.4	6,370	3,820	5,090	3,050	4,240	2,550	4,240	1,700
				Vc = 160m/min fz = 0.35mm/tooth ap = 0.05mm ae = 0.1D							

JEIL SOLUTION CUTTING TOOLS





JEIL SOLUTION INDEXABLE SPEED DRILL

**JSHB / JCHC / JSDB Compatible
with Hitachi & Dijet Holder**

**Indexable end mills series for hardened materials
of mold steel machining**

- New coating layer with nano grade : specially designed for mold steel machining
- Excellent performance with optimal geometry
- Wide range of machining application various geometries and specifications

JEIL SOLUTION INDEXABLE SPEED DRILL

There are four kinds of length

- 2XD, 3XD, 4XD, 5XD

You can purchase drill & insert with economic price

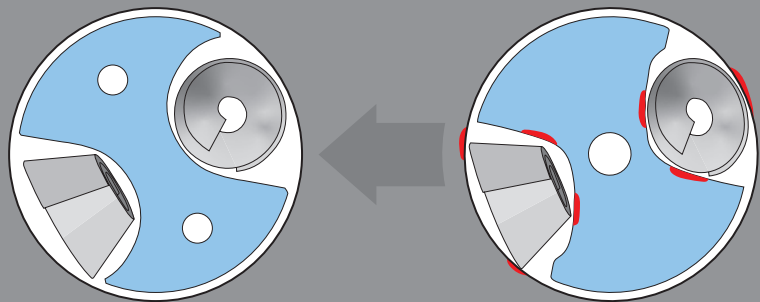
All of sizes is in stock

- Dia 13 to 50mm
- 5D produced from Dia 16 to 50

※ Tooling life is great and extended!!



The difference is wider space of drilling chipping out!!



The solution for chipping shape.

Problem

If too short chipping comes out, the insert might be broken.

Solution

- 1) Raise the oil coolant pressure.
- 2) After the turning RPM speed and the feed makes down, Retry to work it.

Problem

If the long chipping comes out, the chip does not come out properly and it is entangled on the drill. It can arise drill damage and the drilled material surface is not good.

Solution

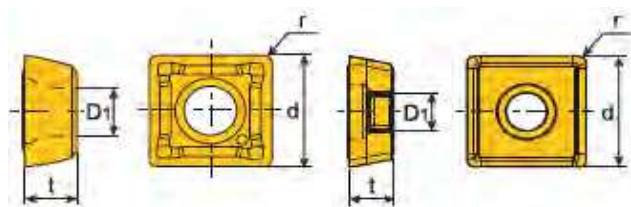
- 1) For mild steel and stainless steel contained the low carbon steel content, please process to turn RPM speed high and feed low.
- 2) For carbon steel or alloy contained the low carbon content, process making the turning RPM speed and feed high.

※ All situation can be changed by surrounding environment.

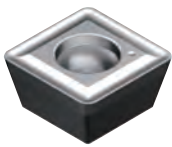
INSERT TECHNICAL DATA

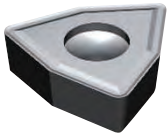


Insert Specification

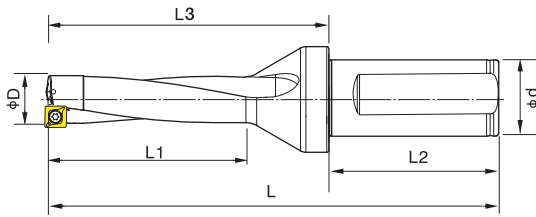


Size	Dimension (mm)			
	d	t	r	D1
05	5.00	2.38	0.4	2.25
06	6.00	2.38	0.4	2.61
07	7.94	3.97	0.8	2.85
09	9.80	4.30	0.8	4.05
14	14.30	5.20	1.2	5.75

Insert shape	Code No.	Work Piece					Applicable drill size
		P	M	K	N	S	
	SPGT - 050204 DG AT9030	⊙	○	○	△	△	D13~D15.5
	SPGT - 060204 DG AT9030	⊙	○	○	△	△	D16~D21.5
	SPGT - 07T308 DG AT9030	⊙	○	○	△	△	D22~D27.5
	SPGT - 090408 DG AT9030	⊙	○	○	△	△	D28~D33
	SPGT - 110408 DG AT9030	⊙	○	○	△	△	D34~D41
	SPGT - 140512 DG AT9030	⊙	○	○	△	△	D42~D50

Insert shape	Code No.	Work Piece					Applicable drill size
		P	M	K	N	S	
	WCMT-030208 P20 JS1302	⊙	○	○	△	△	D16~D20
	WCMT-040208 P20 JS1302	⊙	○	○	△	△	D20.5~D25
	WCMT-050308 P20 JS1302	⊙	○	○	△	△	D25.5~D30
	WCMT-06T308 P20 JS1302	⊙	○	○	△	△	D31~D41
	WCMT-080412 P20 JS1302	⊙	○	○	△	△	D42~D58

INDEXABLE INSERT DRILL • LENGTH • 2XD



D	d	Drill code	L	L1	L3	L2	Insert
13.0		2D-13-C20-SP05	88	29	44		
13.5		2D-13.5-C20-SP05	89	30	45		
14.0		2D-14-C20-SP05	90	31	46		
14.5		2D-14.5-C20-SP05	91	32	47		
15.0	20	2D-15-C20-SP05	92	33	48	44	SP...050204 DG
15.5		2D-15.5-C25-SP05	93	34	49		
16.0		2D-16-C25-SP06	94	35	50		
16.5		2D-16.5-C25-SP06	95	36	51		
17.0		2D-17-C25-SP06	96	37	52		
17.5		2D-17.5-C25-SP06	109	38	53		
18.0		2D-18-C25-SP06	110	39	54		
18.5		2D-18.5-C25-SP06	111	40	55		
19.0		2D-19-C25-SP06	112	41	56		
19.5		2D-19.5-C25-SP06	113	42	57		
20.0		2D-20-C25-SP06	114	43	58		
20.5		2D-20.5-C25-SP06	115	44	59		
21.0	25	2D-21-C25-SP06	116	45	60	56	SP...060204 DG
21.5		2D-21.5-C25-SP06	117	46	61		
22.0		2D-22-C25-SP07	118	47	62		
22.5		2D-22.5-C25-SP07	119	48	63		
23.0		2D-23-C25-SP07	123	49	67		
23.5		2D-23.5-C25-SP07	124	50	68		
24.0		2D-24-C25-SP07	125	51	69		
24.5		2D-24.5-C25-SP07	126	52	70		
25.0		2D-25-C25-SP07	127	53	71		SP...07T308 DG
25.5		2D-25.5-C32-SP07	134	54	74		
26.0		2D-26-C32-SP07	135	55	75		
26.5		2D-26.5-C32-SP07	136	56	76		
27.0		2D-27-C32-SP07	137	57	77		
27.5	32	2D-27.5-C32-SP07	138	58	78	60	SP...090408 DG
28.0		2D-28-C32-SP09	139	59	79		
28.5		2D-28.5-C32-SP09	140	60	80		
29.0		2D-29-C32-SP09	143	62	83		
29.5		2D-29.5-C32-SP09	144	63	84		
30.0		2D-30-C32-SP09	148	64	88		

D	d	Drill code	L	L1	L3	L2	Insert
31.0		2D-31-C32-SP09	150	66	90		
32.0		2D-32-C32-SP09	152	68	92		SP...090408 DG
33.0	32	2D-33-C32-SP09	154	70	94		
34.0		2D-34-C32-SP11	156	72	96		
35.0		2D-35-C32-SP11	158	74	98	60	SP...110408 DG
36.0		2D-36-C40-SP11	160	76	100		
37.0		2D-37-C40-SP11	169	79	109		
38.0		2D-38-C40-SP11	171	81	111		
39.0		2D-39-C40-SP11	173	83	113		
40.0		2D-40-C40-SP11	175	85	115		
41.0		2D-41-C40-SP11	133	87	117		
42.0		2D-42-C40-SP14	134	89	119		
43.0	40	2D-43-C40-SP14	135	91	121		
44.0		2D-44-C40-SP14	136	93	123		
45.0		2D-45-C40-SP14	137	95	125	70	SP...140512 DG
46.0		2D-46-C40-SP14	138	97	127		
47.0		2D-47-C40-SP14	139	99	129		
48.0		2D-48-C40-SP14	140	101	131		
49.0		2D-49-C40-SP14	141	103	133		
50.0		2D-50-C40-SP14	142	105	135		

Spare parts

Screw	T-wrench	Applicable Drill size
M2X4	T6	2D-13-C20-SP05 ~ 2D-14.5-C20-SP05
M2X5	T6	2D-15-C20-SP05 ~ 2D-15.5-C20-SP05
M2.2X5	T7	2D-16-C20-SP06 ~ 2D-21.5-C20-SP06
M2.5X6.5	T8	2D-22-C20-SP07 ~ 2D-27-C20-SP07
M3.5X8	T15	2D-28-C20-SP09 ~ 2D-33-C20-SP09
M4X10	T15	2D-34-C20-SP11 ~ 2D-41-C20-SP11
M5X11	T20	2D-42-C20-SP14 ~ 2D-50-C20-SP14

※ This drill is recommended to use tool holder with EMH holder → Je-il Catalog Pg 99-101

※ When working on irregular surfaces, please reduce the feed rate by 30~50%.

※ Applicable Insert



SPGT

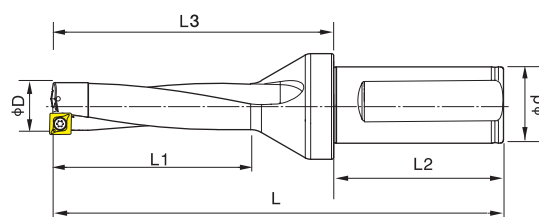
Peripheral(outer) + Central Insert(inner)



WCMT

Peripheral(outer) + Central Insert(inner)

INDEXABLE INSERT DRILL • LENGTH • 3XD



D	d	Drill code	L	L1	L3	L2	Insert
13.0	20	3D-13-C20-SP05	101	42	57	44	SP...050204 DG
13.5		3D-13.5-C20-SP05	103	44	59		
14.0		3D-14-C20-SP05	104	45	60		
14.5		3D-14.5-C20-SP05	106	47	62		
15.0		3D-15-C20-SP05	107	48	63		
15.5		3D-15.5-C25-SP05	109	50	65		
16.0		3D-16-C25-SP06	110	51	66		
16.5		3D-16.5-C25-SP06	112	53	68		
17.0		3D-17-C25-SP06	113	54	69		
17.5	25	3D-17.5-C25-SP06	127	56	71	56	SP...060204 DG
18.0		3D-18-C25-SP06	128	57	72		
18.5		3D-18.5-C25-SP06	130	59	74		
19.0		3D-19-C25-SP06	131	60	75		
19.5		3D-19.5-C25-SP06	133	62	77		
20.0		3D-20-C25-SP06	134	63	78		
20.5		3D-20.5-C25-SP06	136	65	80		
21.0		3D-21-C25-SP06	137	66	81		
21.5		3D-21.5-C25-SP06	139	68	83		
22.0	32	3D-22-C25-SP07	140	69	84	60	SP...07T308 DG
22.5		3D-22.5-C25-SP07	142	71	86		
23.0		3D-23-C25-SP07	146	72	90		
23.5		3D-23.5-C25-SP07	148	74	92		
24.0		3D-24-C25-SP07	149	75	93		
24.5		3D-24.5-C25-SP07	151	77	95		
25.0		3D-25-C25-SP07	152	78	96		
25.5		3D-25.5-C32-SP07	160	80	100		
26.0		3D-26-C32-SP07	161	81	101		
26.5	40	3D-26.5-C32-SP07	163	83	103	60	SP...090408 DG
27.0		3D-27-C32-SP07	164	84	104		
27.5		3D-27.5-C32-SP07	166	86	106		
28.0		3D-28-C32-SP09	167	87	107		
28.5		3D-28.5-C32-SP09	169	89	109		
29.0		3D-29-C32-SP09	172	91	112		
29.5		3D-29.5-C32-SP09	174	93	114		
30.0		3D-30-C32-SP09	178	94	118		

D	d	Drill code	L	L1	L3	L2	Insert
31.0	32	3D-31-C32-SP09	181	97	121	60	SP...090408 DG
32.0		3D-32-C32-SP09	184	100	124		
33.0		3D-33-C32-SP09	187	103	127		
34.0		3D-34-C32-SP11	190	106	130		
35.0		3D-35-C32-SP11	193	109	133		
36.0	40	3D-36-C40-SP11	196	112	136	70	SP...110408 DG
37.0		3D-37-C40-SP11	206	116	146		
38.0		3D-38-C40-SP11	207	119	149		
39.0		3D-39-C40-SP11	212	122	152		
40.0		3D-40-C40-SP11	225	125	155		
41.0	40	3D-41-C40-SP11	228	128	158	70	SP...140512 DG
42.0		3D-42-C40-SP14	231	131	161		
43.0		3D-43-C40-SP14	234	134	164		
44.0		3D-44-C40-SP14	237	137	167		
45.0		3D-45-C40-SP14	240	140	170		
46.0		3D-46-C40-SP14	243	143	173		
47.0		3D-47-C40-SP14	246	146	176		
48.0		3D-48-C40-SP14	249	149	179		
49.0		3D-49-C40-SP14	252	152	182		
50.0		3D-50-C40-SP14	255	155	185		

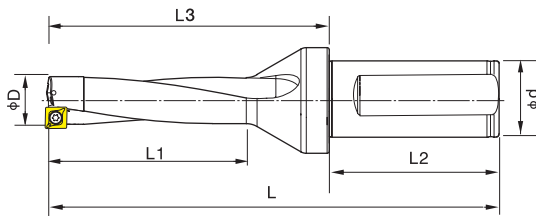
Spare parts

Screw	T-wrench	Applicable Drill size
M2X4	T6	3D-13-C20-SP05 ~ 3D-14.5-C20-SP05
M2X5	T6	3D-15-C20-SP05 ~ 3D-15.5-C20-SP05
M2.2X5	T7	3D-16-C20-SP06 ~ 3D-21.5-C20-SP06
M2.5X6.5	T8	3D-22-C20-SP07 ~ 3D-27-C20-SP07
M3.5X8	T15	3D-28-C20-SP09 ~ 3D-33-C20-SP09
M4X10	T15	3D-34-C20-SP11 ~ 3D-41-C20-SP11
M5X11	T20	3D-42-C20-SP14 ~ 3D-50-C20-SP14

The characteristic of middle and big diameter drills

- The chipping out space for middle dia and big dia drill($\phi 20 \sim \phi 50$) was greatly extended. These drills are stable and surface roughness are excellent in the deep hole drilling also.
- Please make sure the suitable oil pressure and the cutting data for the best performance. (The suitable coolant pressure for 2D & 3D is over 5 kg/cm^2 , the proper pressure for 4D & 5D is over 7 kg/cm^2)

INDEXABLE INSERT DRILL • LENGTH • 4XD



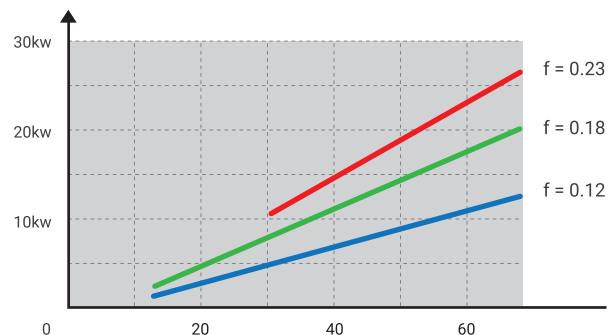
D	d	Drill code	L	L1	L3	L2	Insert
13.0	20	4D-13-C20-SP05	114	55	70	44	SP...050204 DG
13.5		4D-13.5-C20-SP05	116	57	72		
14.0		4D-14-C20-SP05	118	59	74		
14.5		4D-14.5-C20-SP05	120	61	76		
15.0		4D-15-C20-SP05	122	63	78		
15.5		4D-15.5-C25-SP05	124	65	80		
16.0		4D-16-C25-SP06	126	67	82		
16.5		4D-16.5-C25-SP06	128	69	84		
17.0	25	4D-17-C25-SP06	130	71	86	56	SP...060204 DG
17.5		4D-17.5-C25-SP06	144	73	88		
18.0		4D-18-C25-SP06	146	75	90		
18.5		4D-18.5-C25-SP06	148	77	92		
19.0		4D-19-C25-SP06	150	79	94		
19.5		4D-19.5-C25-SP06	152	81	96		
20.0		4D-20-C25-SP06	154	83	98		
20.5		4D-20.5-C25-SP06	156	85	100		
21.0	32	4D-21-C25-SP06	158	87	102	60	SP...07T308 DG
21.5		4D-21.5-C25-SP06	160	89	104		
22.0		4D-22-C25-SP07	162	91	106		
22.5		4D-22.5-C25-SP07	164	93	108		
23.0		4D-23-C25-SP07	169	95	113		
23.5		4D-23.5-C25-SP07	171	97	115		
24.0		4D-24-C25-SP07	173	99	117		
24.5		4D-24.5-C25-SP07	175	101	119		
25.0	40	4D-25-C25-SP07	177	103	121	70	SP...090408 DG
25.5		4D-25.5-C32-SP07	185	105	125		
26.0		4D-26-C32-SP07	187	107	127		
26.5		4D-26.5-C32-SP07	189	109	129		
27.0		4D-27-C32-SP07	191	111	131		
27.5		4D-27.5-C32-SP07	193	113	133		
28.0		4D-28-C32-SP09	195	115	135		
28.5		4D-28.5-C32-SP09	197	117	137		
29.0	50	4D-29-C32-SP09	201	120	141	80	SP...110408 DG
29.5		4D-29.5-C32-SP09	203	122	143		
30.0		4D-30-C32-SP09	208	124	148		

D	d	Drill code	L	L1	L3	L2	Insert
31.0	32	4D-31-C32-SP09	212	128	152	60	SP...090408 DG
32.0		4D-32-C32-SP09	216	132	156		
33.0		4D-33-C32-SP09	220	136	160		
34.0		4D-34-C32-SP11	224	140	164		
35.0	40	4D-35-C32-SP11	228	144	168	70	SP...110408 DG
36.0		4D-36-C40-SP11	232	148	172		
37.0		4D-37-C40-SP11	243	153	183		
38.0		4D-38-C40-SP11	247	157	187		
39.0	50	4D-39-C40-SP11	251	161	191	80	SP...140512 DG
40.0		4D-40-C40-SP11	265	165	195		
41.0		4D-41-C40-SP11	269	169	199		
42.0		4D-42-C40-SP14	273	173	203		
43.0	60	4D-43-C40-SP14	277	177	207	90	SP...140512 DG
44.0		4D-44-C40-SP14	281	181	211		
45.0		4D-45-C40-SP14	285	185	215		
46.0		4D-46-C40-SP14	289	189	219		
47.0	70	4D-47-C40-SP14	293	193	223	100	SP...140512 DG
48.0		4D-48-C40-SP14	297	197	227		
49.0		4D-49-C40-SP14	301	201	231		
50.0		4D-50-C40-SP14	305	205	235		

Spare parts

Screw	T-wrench	Applicable Drill size
M2X4	T6	4D-13-C20-SP05 ~ 4D-14.5-C20-SP05
M2X5	T6	4D-15-C20-SP05 ~ 4D-15.5-C20-SP05
M2.2X5	T7	4D-16-C20-SP06 ~ 4D-21.5-C20-SP06
M2.5X6.5	T8	4D-22-C20-SP07 ~ 4D-27-C20-SP07
M3.5X8	T15	4D-28-C20-SP09 ~ 4D-33-C20-SP09
M4X10	T15	4D-34-C20-SP11 ~ 4D-41-C20-SP11
M5X11	T20	4D-42-C20-SP14 ~ 4D-50-C20-SP14

Power Requirements

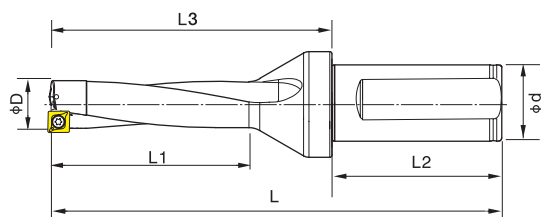


The hole tolerance of indexable drill

Dia	2D	3D	4D	5D
13~22	-1.0 ~ +0.12	-1.0 ~ +0.15	-1.2 ~ +0.18	-1.2 ~ +0.20
23~50	-1.0 ~ +0.12	-1.0 ~ +0.18	-1.2 ~ +0.20	-1.2 ~ +0.22

※ The length of drill, kind of workpiece, machine stability, and cutting condition could affect the hole tolerance.

INDEXABLE INSERT DRILL • LENGTH • 5XD



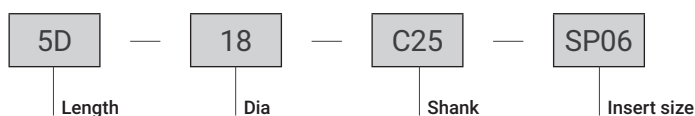
D	d	Drill code	L	L1	L3	L2	Insert
16.0	20	5D-16-C20-SP06	142	83	98	44	SP...060204 DG
16.5		5D-16.5-C20-SP06	145	86	101		
17.0		5D-17-C20-SP06	147	88	103		
17.5	25	5D-17.5-C25-SP06	162	91	106	56	SP...07T308 DG
18.0		5D-18-C25-SP06	164	93	108		
18.5		5D-18.5-C25-SP06	167	96	111		
19.0		5D-19-C25-SP06	169	98	113		
19.5		5D-19.5-C25-SP06	172	101	116		
20.0		5D-20-C25-SP06	174	103	118		
20.5		5D-20.5-C25-SP06	177	106	121		
21.0		5D-21-C25-SP06	179	108	123		
21.5		5D-21.5-C25-SP06	182	111	126		
22.0		5D-22-C25-SP07	184	113	128		
22.5	32	5D-22.5-C25-SP07	187	116	131	60	SP...090408 DG
23.0		5D-23-C25-SP07	192	118	136		
23.5		5D-23.5-C25-SP07	195	121	139		
24.0		5D-24-C25-SP07	197	123	141		
24.5		5D-24.5-C25-SP07	200	126	144		
25.0		5D-25-C25-SP07	202	128	146		
25.5		5D-25.5-C32-SP07	213	130	153		
26.0		5D-26-C32-SP07	216	133	156		
26.5		5D-26.5-C32-SP07	219	136	159		
27.0		5D-27-C32-SP07	218	138	158		

D	d	Drill code	L	L1	L3	L2	Insert
31.0	32	5D-31-C32-SP09	243	159	183	60	SP...110408 DG
32.0		5D-32-C32-SP09	248	164	188		
33.0		5D-33-C32-SP09	253	169	193		
34.0	40	5D-34-C32-SP11	258	174	198	70	SP...140512 DG
35.0		5D-35-C32-SP11	263	179	203		
36.0		5D-36-C40-SP11	268	184	208		
37.0		5D-37-C40-SP11	280	190	220		
38.0		5D-38-C40-SP11	285	195	225		
39.0		5D-39-C40-SP11	290	200	230		
40.0		5D-40-C40-SP11	305	205	235		
41.0		5D-41-C40-SP11	310	210	240		
42.0		5D-42-C40-SP14	315	215	245		
43.0		5D-43-C40-SP14	320	220	250		
44.0	50	5D-44-C40-SP14	325	225	255	70	SP...140512 DG
45.0		5D-45-C40-SP14	330	230	260		
46.0		5D-46-C40-SP14	335	235	265		
47.0		5D-47-C40-SP14	340	240	270		
48.0		5D-48-C40-SP14	345	245	275		
49.0		5D-49-C40-SP14	350	250	280		
50.0		5D-50-C40-SP14	355	255	285		

Spare parts

Screw	T-wrench	Applicable Drill size
M2.2X5	T7	5D-16-C20-SP06 ~ 5D-21.5-C20-SP06
M2.5X6.5	T8	5D-22-C20-SP07 ~ 5D-27-C20-SP07
M3.5X8	T15	5D-28-C20-SP09 ~ 5D-33-C20-SP09
M4X10	T15	5D-34-C20-SP11 ~ 5D-41-C20-SP11
M5X11	T20	5D-42-C20-SP14 ~ 5D-50-C20-SP14

Drill Code Structured - How to order



※ This drill is recommended to use internal coolant type with EMH holder --> Je-il Catalog Pg 99-101

※ When working on irregular material surfaces, please reduce the feed rate by 30~50%.

※ D13 to D15.5 cannot be produced for 5XD

FORMULAR CUTTING OPERATION

Rpm

min-1

$$n = \frac{V_c \times 1,000}{D \times \pi}$$

Power Requirement

kW

$$P_{mot} = \frac{Q \times K_c}{60,000 \times \eta}$$

Vc

m/min

$$V_c = \frac{\pi \times D \times n}{1,000}$$

Torque

Nm

$$M_c = \frac{D^2 \times K_c \times f}{8,000} = \frac{P_{mot} \times 9,500}{n}$$

f

mm

$$f = f_z \times Z$$

N

N

$$F_f = 0.63 \times \frac{f \times D \times K_c}{n}$$

Vf

mm/min

$$V_f = f \times n$$

Q

cm3/min

$$Q = \frac{V_f \times \pi \times D^2}{4,000}$$

D	mm
n	min-1
Z	number of cutting blade
f	mm
Vc	m/min
Vf	mm/min

Pmot	kW
Q	cm3/min
η	0.7-0.95
Mc	Nm
Ff	N
fz	mm



CUTTING TOOLS TECHNICAL DATA

	Work piece Material	Vc m/min(d)	(mm/rev) --> feed					
			13~15	15.5~21.5	22~27.5	28~33	34~41	42~50
P Steel	Unalloyed steel (-0.25%)	180~240	0.05~0.08	0.06~0.10	0.06~0.12	0.07~0.13	0.08~0.15	0.08~0.16
	Low-alloy steel (0.25%-)	150~220	0.06~0.12	0.08~0.15	0.10~0.17	0.12~0.20	0.12~0.22	0.13~0.24
	Low-alloy steel (-HB300)	130~200	0.06~0.12	0.08~0.14	0.10~0.18	0.12~0.20	0.12~0.22	0.12~0.22
	High-alloy steel (HB300-)	120~180	0.06~0.10	0.08~0.15	0.10~0.18	0.12~0.20	0.12~0.22	0.13~0.24
M Stainless steel	Stainless steel	150~220	0.05~0.10	0.06~0.12	0.08~0.15	0.09~0.16	0.10~0.17	0.11~0.18
K Cast iron	Grey cast iron	150~250	0.06~0.12	0.08~0.16	0.12~0.20	0.14~0.25	0.15~0.28	0.17~0.30
	Cast iron with nodular cast	120~200	0.06~0.10	0.08~0.15	0.10~0.18	0.12~0.22	0.14~0.22	0.15~0.24
N Nonferrous metals	Aluminium	300~380	0.06~0.14	0.08~0.15	0.10~0.20	0.12~0.22	0.14~0.23	0.15~0.24
S Super-alloys and titanium	Super-alloys and titanium	30~60	0.05~0.10	0.06~0.14	0.08~0.18	0.10~0.20	0.11~0.20	0.12~0.22

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