



ISO 9001 / 14001



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TOOL HOLDER

PRECISION FOR PRECISION



Saturn - II
GHC
GHS

EWS KOREA

Advantage

–Modular type

S_{aturn-II}

–Standard type

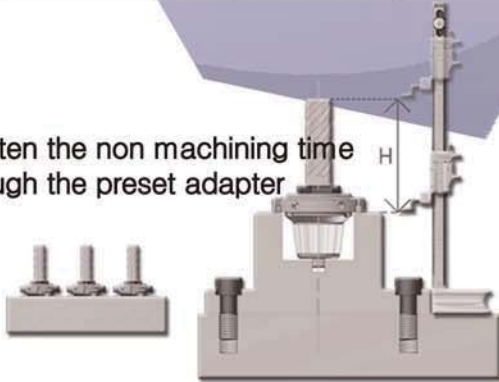
G_{eneral} H_{eavy} C_{utting}

G_{eneral} H_{igh} S_{peed}

Improvement of productivity

S

- Shorten the non machining time through the preset adapter



Powerful cutting performance

S GHC

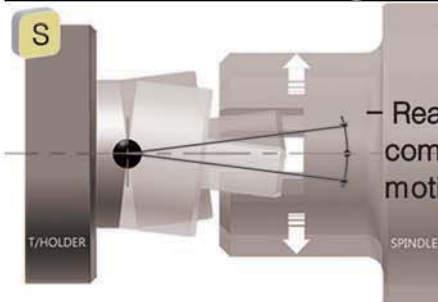
- Improve absorption of the vibration for tool through taper roller bearing in tool holder



Solution for misalignment

S

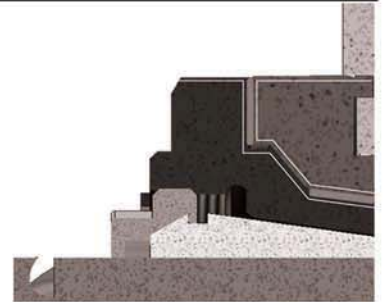
- Realize automatical compensation by helical motion of tool spindle



Strong fixing

S

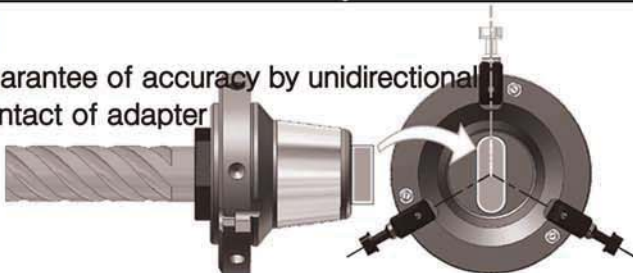
- Improve the rigidity of cutting by two face contact tooling system between adapter and spindle of holder



Guarantee of accuracy

S

- Guarantee of accuracy by unidirectional contact of adapter



Quick exchanging tools

S

- Improve the ease of tool exchanging by only three points locking system for adapter



Realization of repeatability

S

GHC GHS

- Realize repeatability of below 5 μ m by special key

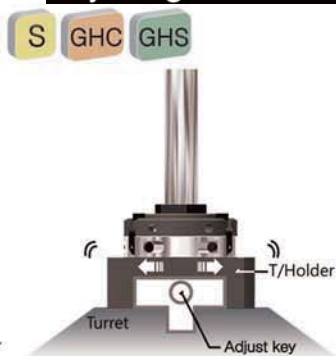


Function of adjusting for accuracy

S

GHC GHS

- Compensate the eccentricity and the angle of deviation of tool holder by special key when



Improve durability

S

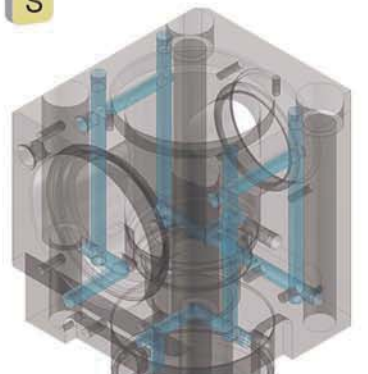
- Improve durability of spiral bevel gear by liquid lubrication



Cooling system

S

- Realize cooling system bay coolant circulation



Saturn - II

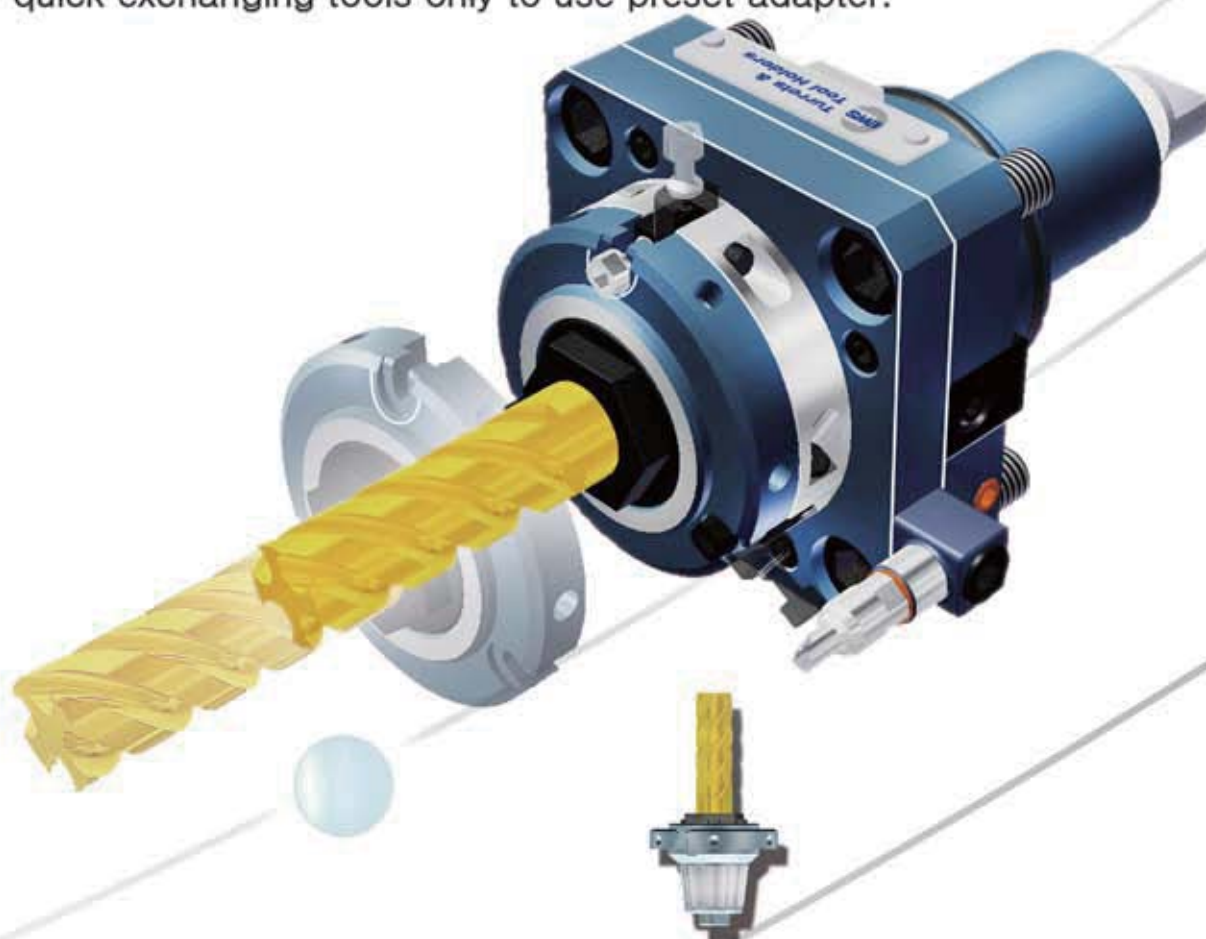
Full Modular Tooling System

Do you still use the gauge for exchanging tools?

Can you give beginner the responsibility of exchanging tools when they work on night duty?

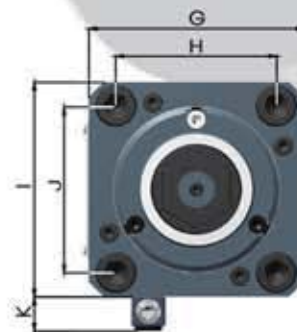
No!!

Use the our new innovation!! "Saturn - II" It makes quick exchanging tools only to use preset adapter.



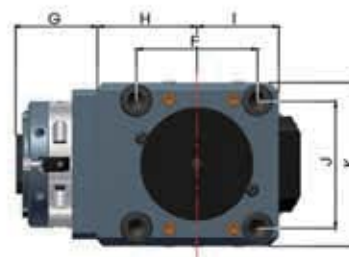
Saturn – II Dimension

AXIAL DRIVEN TOOL HOLDER



급수별	ITEM CODE	A	B	C	D	E	F	G	H	I	J	K
BMT45	40.45S231809	29	32.5	84	15	6	45	77	58	77	58	15
BMT55	40.55S231809	29	30.5	104	15	8	55	85	64	85	64	15
BMT65	40.65S241809	35.5	33	112	18	10	65	94	70	94	73	15
BMT75	40.75S251809	39.9	35.5	110	25	14	75	112	90	112	90	15
BMT85	40.85S261809	78.4	37.5	140	25	16	85	132	100	132	100	15

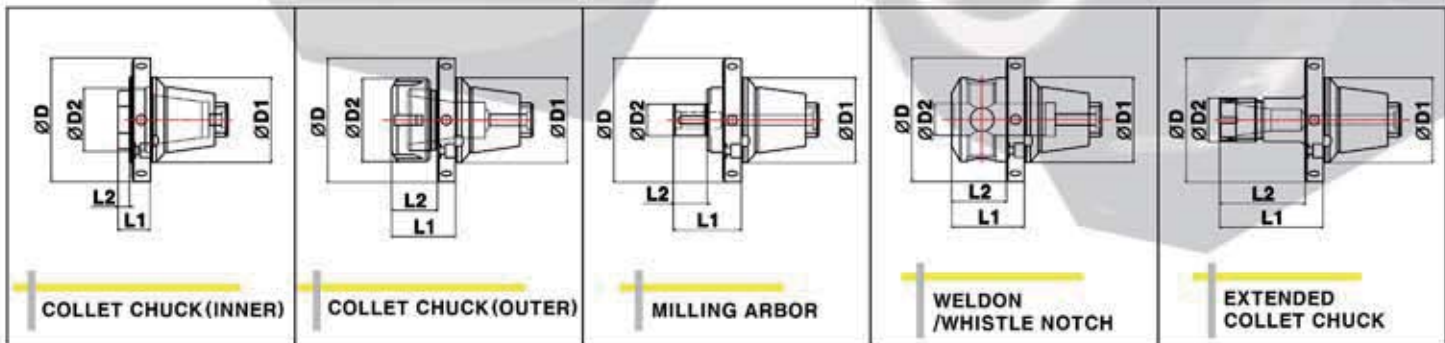
RADIAL DRIVEN TOOL HOLDER



급수별	ITEM CODE	A	B	C	D	E	F	G	H	I	J	K
BMT45	60.45S231809X65	65	84	15	6	45	58	39.5	47	38.5	58	75
BMT55	60.55S231809X70	70	104	15	8	55	64	39.5	56	43	64	85
BMT65	60.65S241809X72	72	112	18	10	65	70	50.5	57.5	47	73	94
BMT75	60.75S251809X90	90	110	25	14	75	90	54.4	66.75	60.75	90	112
BMT85	60.85S261809X110	110	140	25	16	85	100	94.4	75	66	100	132



Saturn – II Combination Adapters



Type	Item code	Specification			Remark
		L1	L2	øD2	
COLLET CHUCK (INNER)	31.S2325M32L175 (45)	17	6.5	32	ER25 (ø2~ø16)
	31.S2325M32L17 (55)				
COLLET CHUCK (OUTER)	31.S2325M32L345 (45)	34	23.5	42	ER25 (ø2~ø16)
	31.S2325M32L34 (55)				
MILLING ARBOR	42.S2316L34	34	17	16	Side mills, Face mills, Disk cutters
	42.S2322L36	36	19	22	
WELDON /WHISTLE NOTCH	27.S2306WNL25.5	25.5	16.5	6	Drill, Endmill (ø6~ø20)
	27.S2308WNL26.5	26.5	17.5	8	
	27.S2310WNL29.5	29.5	20.5	10	
	27.S2312WNL32.5	32.5	23.5	12	
	27.S2314WNL32.5	32.5	23.5	14	
	27.S2316WNL36.5	36.5	27.5	16	
	27.S2318WNL36.5	36.5	27.5	18	
	27.S2320WNL39.5	39.5	30.5	20	
EXTENDED COLLET CHUCK	31.S2311M13L40EX	40	31	16	ER11 (ø0.2~ø7)
	31.S2316M19L50EX	50	41	22	ER16 (ø0.2~ø10)

Type	Item code	Specification			Remark
		L1	L2	øD2	
COLLET CHUCK (INNER)	31.S2432M40L22	22	7.5	40	ER32 (ø3~ø20)
COLLET CHUCK (OUTER)	31.S2432M40L40	40	27	50	ER32 (ø3~ø20)
MILLING ARBOR	42.S2416L37.5	37.5	17	16	Side mills, Face mills, Disk cutters
	42.S2422L39.5	39.5	19	22	
	42.S2427L40.5	40.5	20	27	
WELDON /WHISTLE NOTCH	27.S2406WNL28	28	16.5	6	Drill, Endmill (ø6~ø25)
	27.S2408WNL29	29	17.5	8	
	27.S2410WNL32	32	20.5	10	
	27.S2412WNL35	35	23.5	12	
	27.S2414WNL35	35	23.5	14	
	27.S2416WNL39	39	27.5	16	
	27.S2418WNL39	39	27.5	18	
	27.S2420WNL42	42	30.5	20	
EXTENDED COLLET CHUCK	31.S2411M13L50EX	50	38.5	16	ER11 (ø0.2~ø7)
	31.VE416M19L60EX	60	48.5	22	ER16 (ø0.2~ø10)

Type	Item code	Specification			Remark
		L1	L2	øD2	
COLLET CHUCK (INNER)	31.S2540L25.9	25.9	3.4	50	ER40 (ø3~ø26)
COLLET CHUCK (OUTER)	31.S2540M50L48	48	31.6	63	ER40 (ø3~ø26)
MILLING ARBOR	42.S2522L45	45	19	22	Side mills, Face mills, Disk cutters
	42.S2527L46	46	20	27	
	42.S2532L49	49	23	32	
WELDON /WHISTLE NOTCH	27.S2506WNL31.5	31.5	16.5	6	Drill, Endmill (ø6~ø25)
	27.S2508WNL32.5	32.5	17.5	8	
	27.S2510WNL35.5	35.5	20.5	10	
	27.S2512WNL38.5	38.5	23.5	12	
	27.S2514WNL38.5	38.5	23.5	14	
	27.S2516WNL42.5	42.5	27.5	16	
	27.S2518WNL42.5	42.5	27.5	18	
	27.S2520WNL45.5	45.5	30.5	20	
EXTENDED COLLET CHUCK	31.S2516M19L60EX	60	45	22	ER11 (ø0.2~ø10)
	31.S2525M30L60EX	60	45	35	ER16 (ø0.5~ø17)

Type	Item code	Specification			Remark
		L1	L2	øD2	
COLLET CHUCK (OUTER)	31.S2650L63.4	63.4	48.9	78	ER50 (ø12~ø34)
MILLING ARBOR	42.S2627L	45.5	20	27	Side mills, Face mills, Disk cutters
	42.S2632L	48.5	23	32	
	42.S2640L	54.5	29	40	
WELDON /WHISTLE NOTCH	27.S2606WNL31	31	16.5	6	Drill, Endmill (ø6~ø32)
	27.S2608WNL32	32	17.5	8	
	27.S2610WNL35	35	20.5	10	
	27.S2612WNL38	38	23.5	12	
	27.S2614WNL38	38	23.5	14	
	27.S2616WNL42	42	27.5	16	
	27.S2618WNL42	42	27.5	18	
	27.S2620WNL45	45	30.5	20	
	27.S2625WNL48	48	33.5	25	
	27.S2632WNL51	51	36.5	32	

* Our corporation is made-to-order possible



New development! with **Saturn** technology
standard tool holders
for heavy cutting and high speed cutting

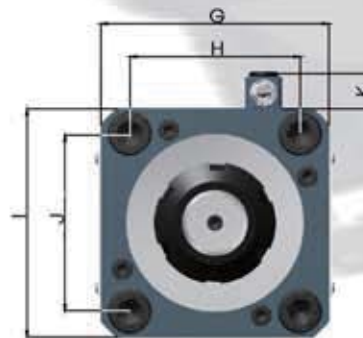
General
Heavy
Cutting



General
High
Speed

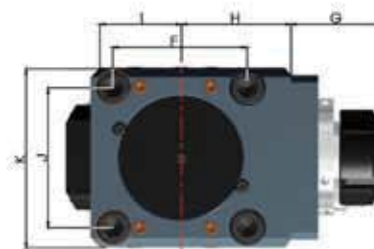
GHC , GHS Dimension

AXIAL DRIVEN TOOL HOLDER



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BMT85	40.85GHC1809	40.85GHS1809	59	37.5	140	25	16	85	132	100	132	100	15

RADIAL DRIVEN TOOL HOLDER



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BMT45	60.45GHC1809X65	60.45GHS1809X65	65	84	15	6	45	58	44	47	38.5	58	75
BMT55	60.55GHC1809X70	60.55GHS1809X70	70	104	15	8	55	64	42	56	43	64	85
BMT65	60.65GHC1809X72	60.65GHS1809X72	72	112	18	10	65	70	48	57.5	47	70	94
BMT75	60.75GHC1809X90	60.75GHS1809X90	90	110	25	14	75	90	55	66.75	60.75	90	112
BMT85	60.85GHC1809X110	60.85GHS1809X110	110	140	25	16	85	100	75	75	66	100	132



EWS *Turret &
Tool holder*

EWS KOREA

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