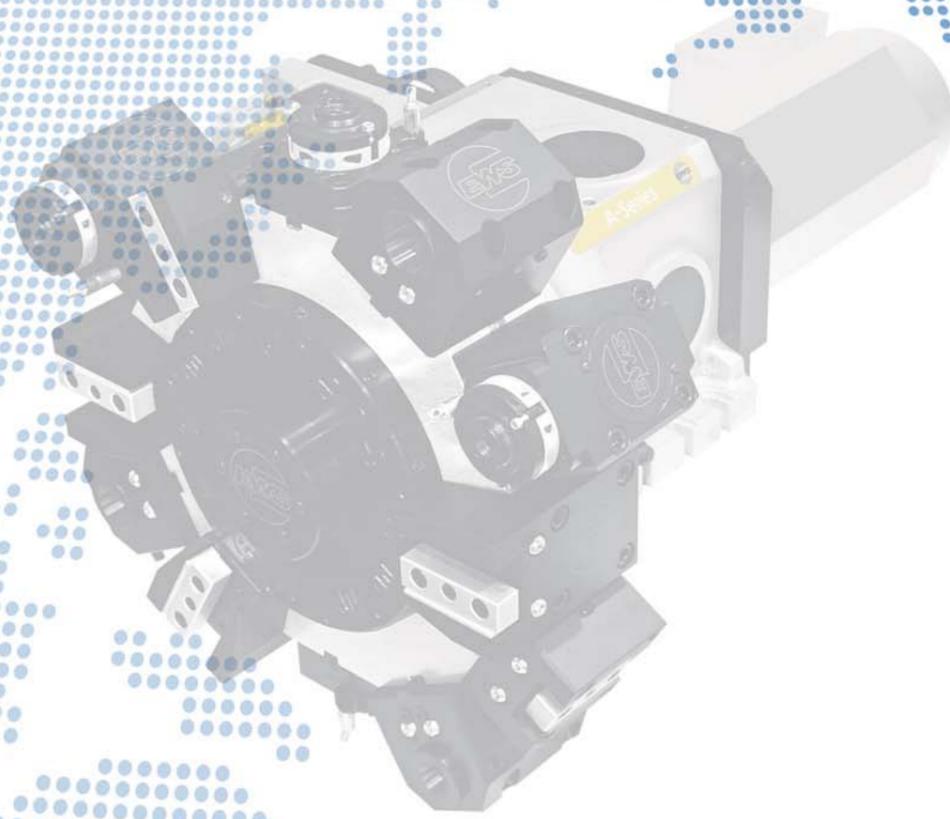
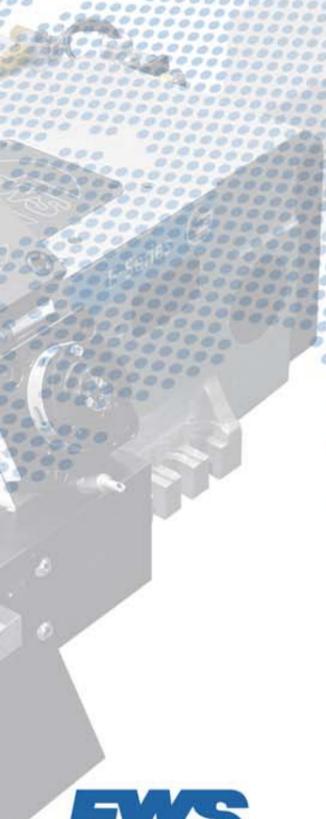


# TURRET C-Series

PRECISION FOR PRECISION



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The shape images of this catalog is an image to help users understand it,  
 and there may be some differences.  
 The data are subject to thchnical modifications without notice.

2018.01.04 Production

Faster and more precisely





1. C-Series Description ..... 3p

2. Identification Code ..... 5p

3. Contents ..... 7p

4. Size & Dimensions ..... 9p

- MILL Turret  
CZR\*\*-TBM\*\*-S12  
-TVS\*\*-S12
- STD Turret  
CZR\*\*-PBH\*\*-S12  
CXR\*\*-PBH\*\*-S12

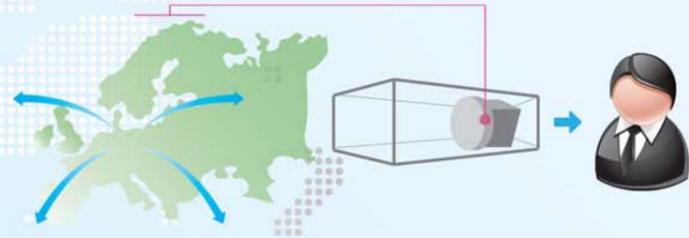
5. Supply Composition ..... 13p

6. CZR-Series Mapping ..... 15p

7. Motor Selection ..... 17p

# C-Series Description

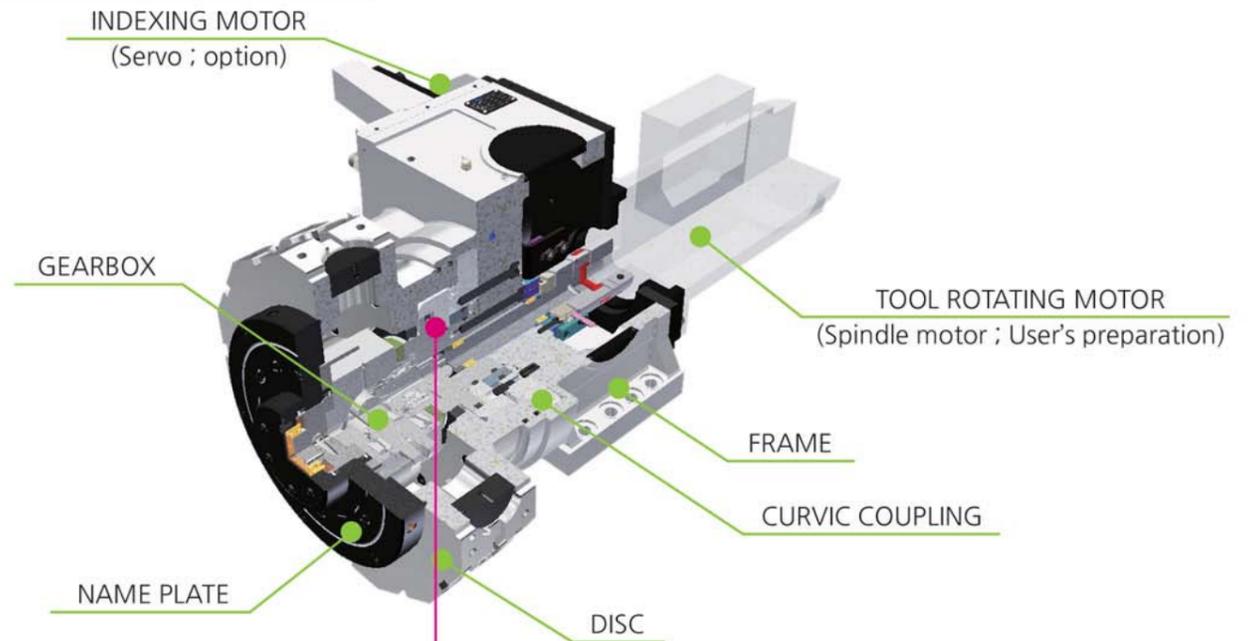
- Designed based on unit spec of European turret production company, but wants to have simpler structure than E-Series A company that wants to keep
- European turret maker's basic lathe and the same center height, but make a difference
- A company that desires a similar internal configuration to the turret of Northeast Asian turret makers
- A company that wants a compact body design  
 ※ Due to its compact design, the various deployment can be limited



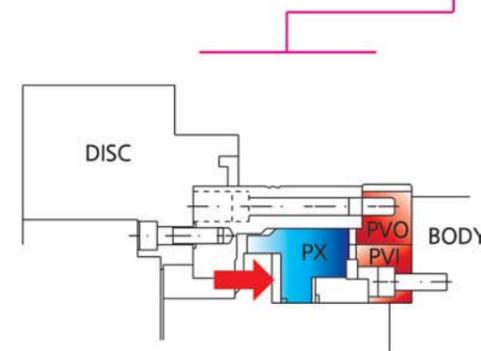
This turret has been developed for customers who want a simple structure especially focused on European turret specification. It has a compact size so that it increases the range of applicability.

- Turret body and disc are assembled to make up this turret(integrated type).
- Applied 3-piece curvic coupling which have high rigidity, high precision
- Index type : Belt
- Easy to manage 'after-sale service' by GEAR BOX structure which can be separated
- Two motor type : Turret disc indexing and rotating tools
- All the disc stations can be used for rotating tools and only the working tool is driven without dead time.(In case of DIN1809 coupling)
- Max of adjustable coolant pressure : 70 bar
- Curvic coupling clamp : Hydraulic

## C-Series Structure

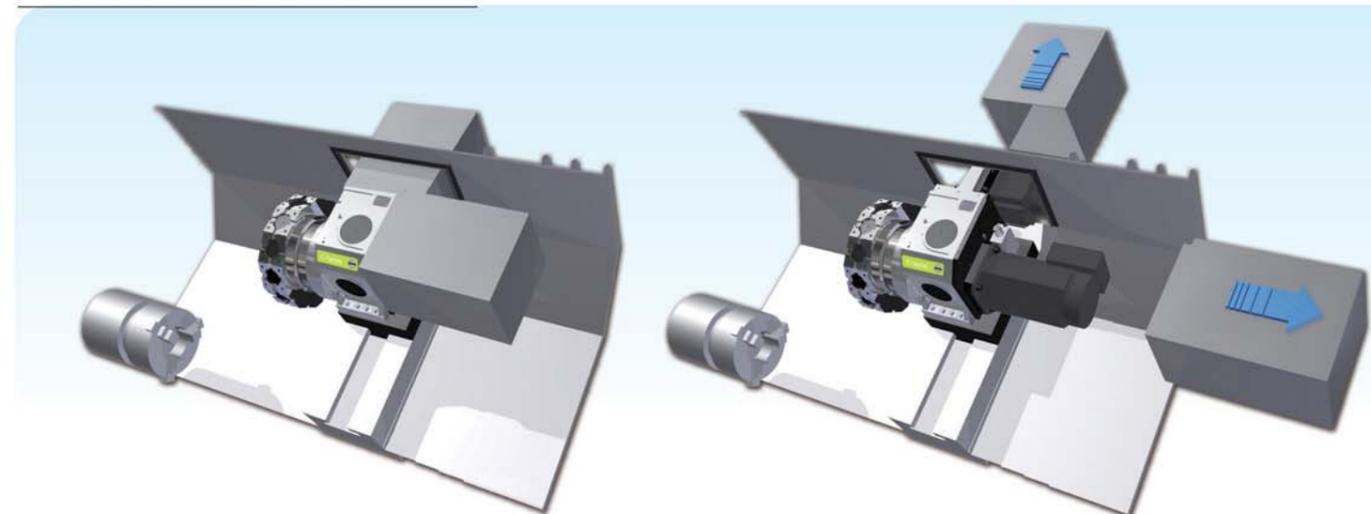


## Coupling Clamp Structure (3pcs)



The rigidity kept by pulling a piston(PX) and tooth interlocking between a circling curvic(PVO) and a fixed curvic(PVI) due to hydraulic pressure

## C-Series cover combination



# Identification Code

**C**      **Z**      **R**      **16**      —      **T**      **BM**      **55**      —      **S**      **12**

**EWS Turret Series**

- E : European
- A : Asian
- C : Customized Asian

**Turret Position**

- R : Right
- L : Left

**Motor Type**

- O : 1-motor(One) Servo Motor
- P : Popular Servo Motor
- T : 2-motors(Two) Spindle[Servo] Motor Servo Motor

**Tool O-D Size**

- 20
- 25
- 32

**Shank Size (Ø)**

- 25
- 30
- 40
- 50
- 60

**Shank Size (Ø)**

- 45
- 55
- 65
- 75
- 85

**Tool Quantity**

- 8
- 10
- 12
- 16
- 24

**Motor direction and form**

**MILL (By Spindle Motor Position)**

- Z : Z-axis
- X : X-axis
- Y : Y-axis
- U : U Type

**STD (By Index Motor Position)**

- Z : Z-axis
- X : X-axis

**Class of Turret Size**

- 16
- 20
- 25
- 32
- 40

**Disc Type**

- BH : Base Holder
- BM : BMT
- VD : VDI Disc
- VS : VDI Star

**Z-axis Turret Size**

- S : Short neck
- L : Long neck

# Contents



**\_MILL**  
CZR\*\*-TBM\*\*-S12



CZR\*\*-TVS\*\*-S12



**\_STD**  
CZR\*\*-PBH\*\*-S12



CXR\*\*-PBH\*\*-S12

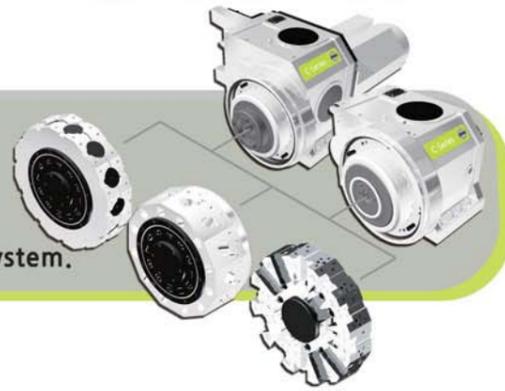


# C-Series

## C-Series Modular System

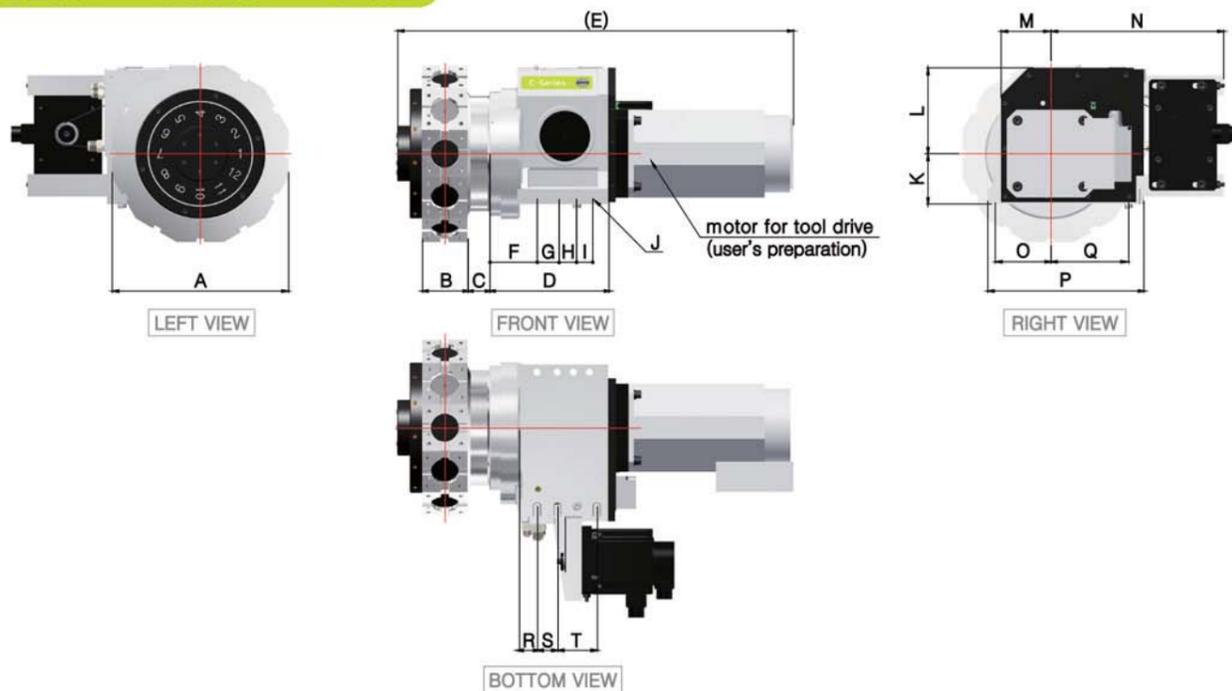
- It is Modular System with one Frame and only change a disc parts.

※ BH, BM, VS Disc type can be also applied as Modular System.



## MILL

### CZR\*\*-TBM\*\*-S12



## MILL

### CZR\*\*-TVS\*\*-S12



※ It is Modular System, The dimensions of TBM and TVS are the same. For requirement of TVS Type, please contact us.

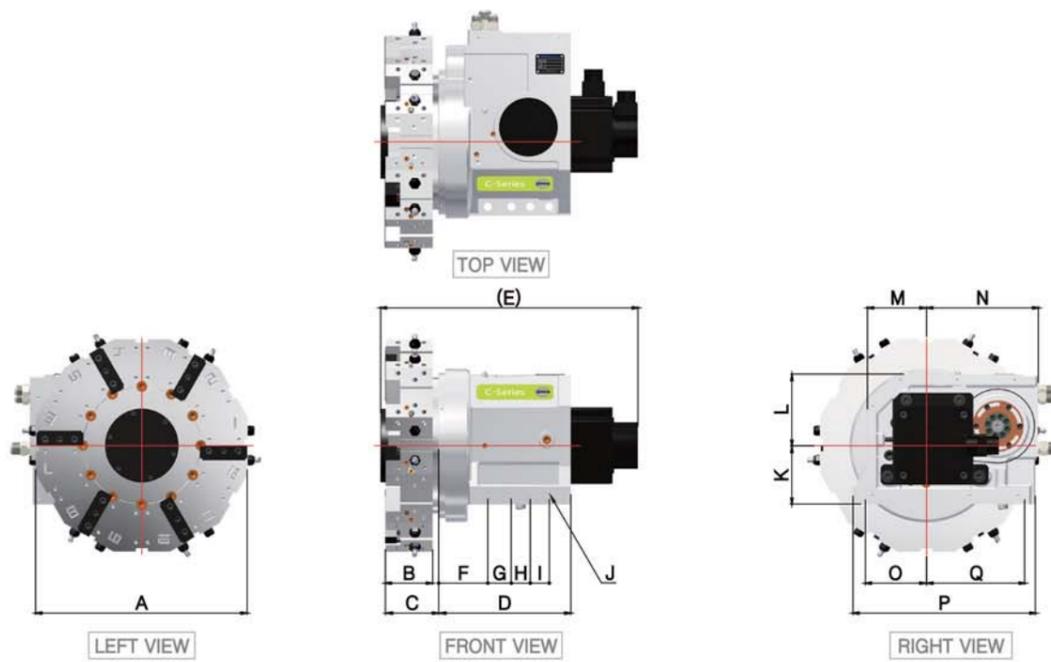
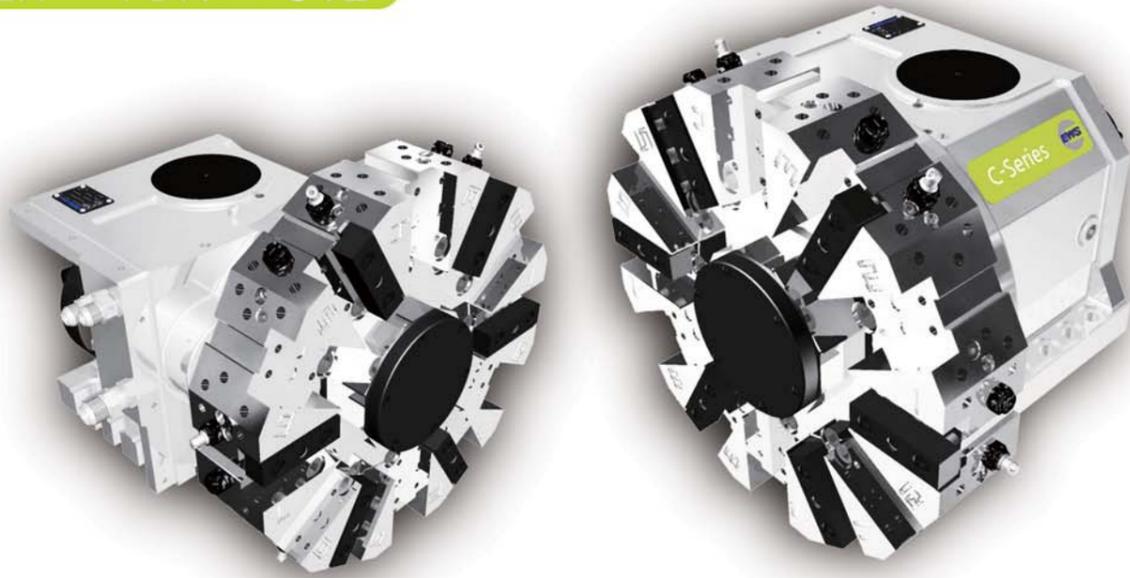
Series	Size																					
CZR**-TBM**	A	B	C	D	(E)	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	TBM**	
16	290	77	29	230.5	(803)	102.5	32	32	32	M14X2.0	80	130	84	330	90	270	145	34	32	32	45	
20	350	90	43.5	235	(784)	94	40	32	32	M14X2.0	100	170	100	343	110	310	155	34	40	78	55	
CZR**	25	380	100	43.5	270	(911.5)	100	44	43	43	M16X2.0	125	125	120	355	138	358	170	30	44	86	65
	32	450	120	31	323	(987)	138	46	45	45	M18X2.5	160	160	150	460	175	450	215	40	46	108	75
	40	530	150	40	396	(1,210)	180	50	50	50	M22X3.0	200	200	200	550	235	560	265	49	50	132	85

※ S(Short neck) and L(Long neck), other Q'ty of turret disc angles are applicable, please contact us.

※ We can apply a one motor type, Y axis additional type, U-type and various disc type, different sided. Please contact us.

# STD

CZR\*\*-PBH\*\*-S12



Series	Size																	
CZR**-PBH**	A	B	C	D	(E)	F	G	H	I	J	K	L	M	N	O	P	Q	PBH**
16	330	70	81.5	205.5	(395)	77.5	32	32	32	M14X2.0	80	130	84	165	90	270	145	20
20	360	80	90	225	(437.5)	84	40	32	32	M14X2.0	100	120	100	190	110	310	155	25
CZR**	25	400	90	108	251	(468)	81	44	43	M16X2.0	125	125	120	205	138	358	170	25
32	520	125	151.5	286	(544.7)	101	46	45	45	M18X2.5	160	160	150	255	175	450	215	32
40	580	150	175	386	(667)	170	50	50	50	M22X3.0	200	200	200	305	235	560	265	32

※ Other Q'ty of turret disc angles are applicable, please contact us.

# STD

CXR\*\*-PBH\*\*-S12



※ Other Q'ty of turret disc angles are applicable. For requirement of STD Turret, please contact us.

# Supply Composition

## <General>

**CZR** Tool rotating motor is placed at the back of Z axis

**CXR** Tool rotating motor is placed at the back of X axis



**MILL**



**CZR** Right Type

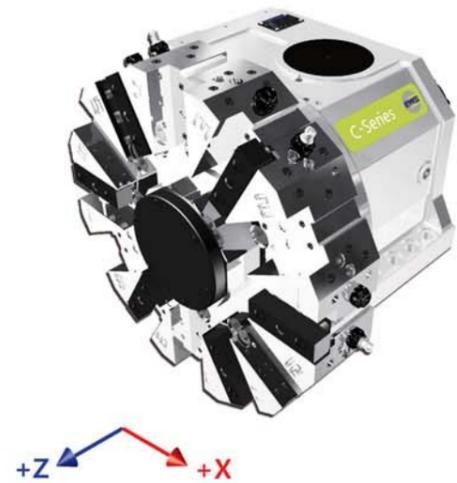
**CZL** Left Type



※ CZL Type can be also applied with CXL, CYL, CUL

**CZR** Index motor is placed at the back of Z axis

**CXR** Index motor is placed towards Z axis and frame side

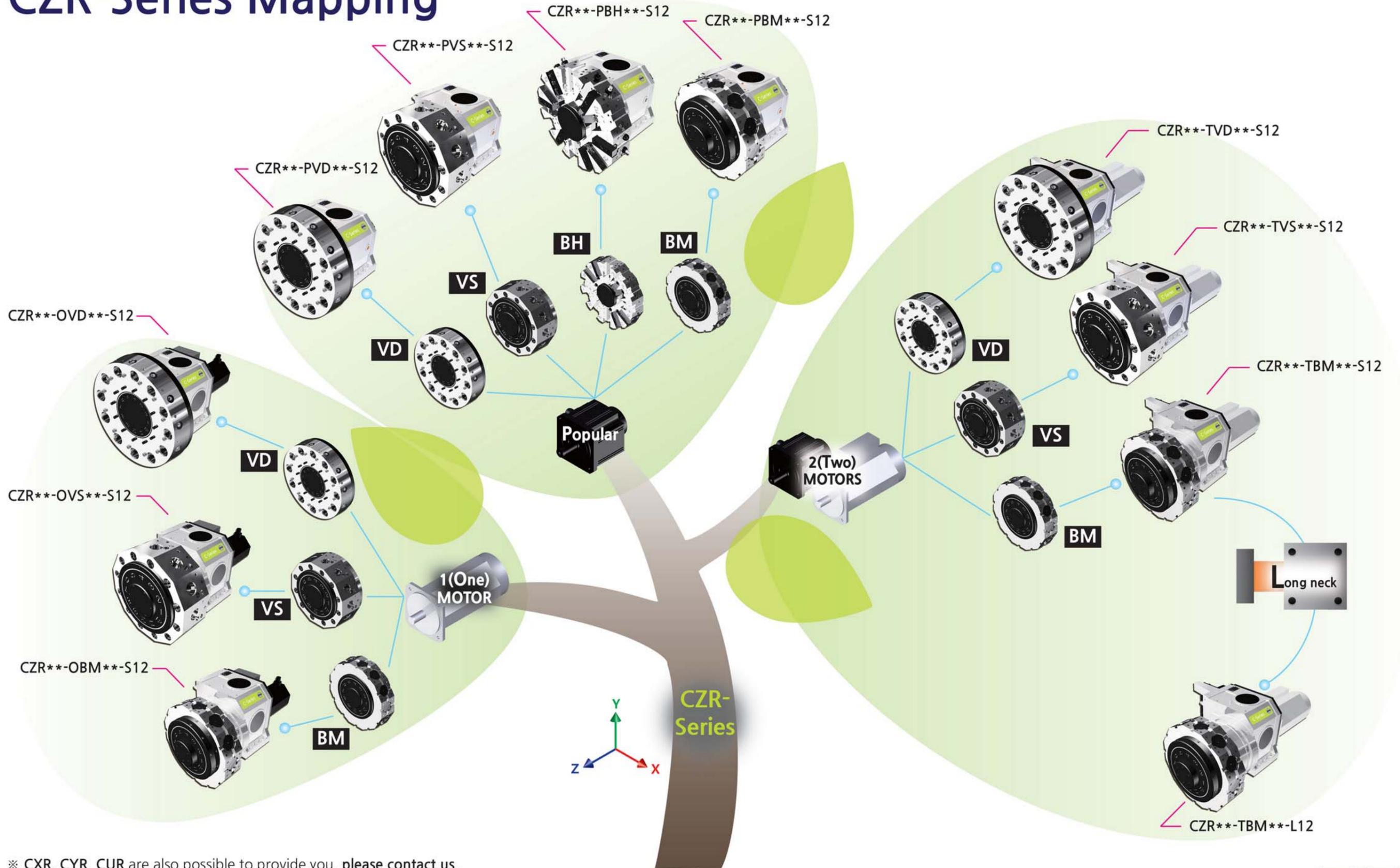


**STD**



※ CYR, CUR are also possible to provide you, please contact us.

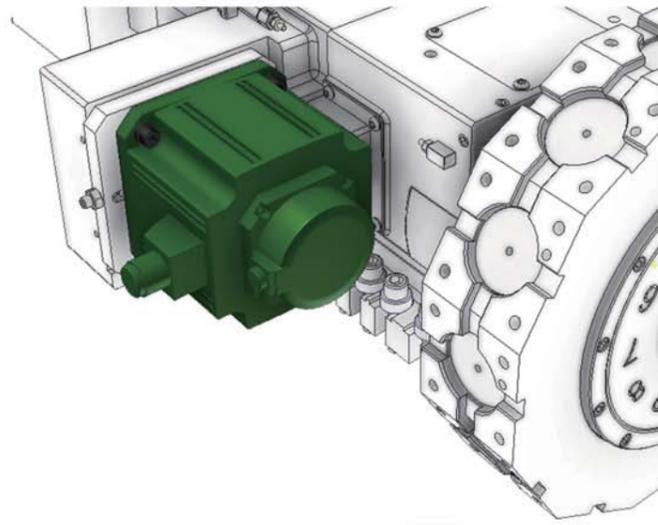
# CZR-Series Mapping



※ CXR, CYR, CUR are also possible to provide you, please contact us.

# Motor Selection

## < Index Motor >



PANASONIC



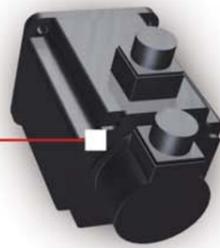
SIEMENS



FANUC



DELTA



etc

※ Basically, we recommend PANASONIC as a Index Motor.  
But we can apply your requirement if you want to use another Motor. Please contact us.

Saturn  
G H C  
G H S

# BMQ (BMT type Quick change tool holder)



– Even for a BMT type holder,  
much easier and faster interchangeable system

- Saturn
- GHC
- GHS

