



# NXT GENERATION Angle Heads Selection Guide

## KOMA PRECISION

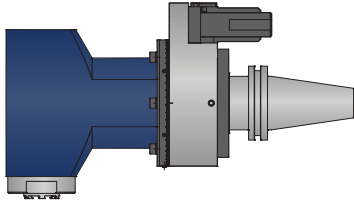
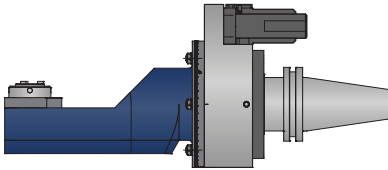
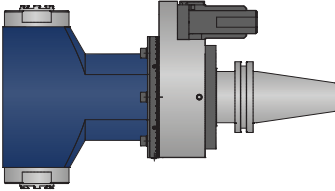
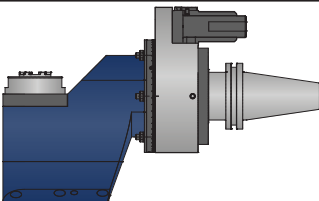
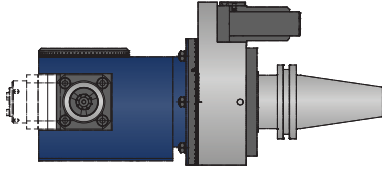
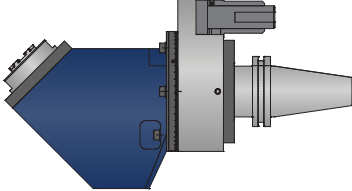
For over thirty-five years Koma Precision has been the foremost source for the finest the world has to offer in machine tool Productivity Innovation.

With over 30,000 rotary table installations, KOMA is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, KOMA is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



# NXT ANGLE HEAD PRICING



<b>S</b> 90° ANGLE HEADS	SIZE	RATIO	OUTPUT*	SHANK*
	4	1:1	ER-16	BT 30
	5	1:1	ER-20A	40/50 Taper
	6	1:1	ER-25	40/50 Taper
	7	1:1	ER-32	40/50 Taper
	10	1:1	ER-40	50 Taper
	20	1:1	ER-50	50 Taper
	30	1:1	ER-50	50 Taper
<b>G</b> EXTENDED LENGTH 90° ANGLE HEADS	SIZE	RATIO	OUTPUT*	SHANK*
	5	1:1	ER-20A	40/50 Taper
	6	1:1	ER-25	40/50 Taper
	7	1:1	ER-32	40/50 Taper
	10	1:1	ER-40	50 Taper
	20	1:1	ER-50	50 Taper
	30	1:1	ER-50	50 Taper
	<b>S-2</b> DUAL OUTPUT 90° ANGLE HEADS	SIZE	RATIO	OUTPUT*
	5	1:1	ER-20A	40/50 Taper
	6	1:1	ER-25	40/50 Taper
	7	1:1	ER-32	40/50 Taper
	10	1:1	ER-40	50 Taper
	20	1:1	ER-50	50 Taper
	30	1:1	ER-50	50 Taper
	<b>W</b> OFFSET 90° ANGLE HEADS (COOLANT OPTIONAL)	SIZE	RATIO	OUTPUT*
	5	1:1	ER-20A	40/50 Taper
	6	1:1	ER-25	40/50 Taper
	7	1:1	ER-32	40/50 Taper
	10	1:1	ER-40	50 Taper
	20	1:1	ER-50	50 Taper
	30	1:1	ER-50	50 Taper
	<b>D</b> ADJUSTABLE ANGLE HEADS (COOLANT OPTIONAL)	SIZE	RATIO	OUTPUT*
	5	1:1	ER-20A	40/50 Taper
	6	1:1	ER-25	40/50 Taper
	7	1:1	ER-32	40/50 Taper
	10	1:1	ER-40	50 Taper
	20	1:1	ER-50	50 Taper
	30	1:1	ER-50	50 Taper
	<b>F</b> CUSTOM FIXED ANGLE HEADS (COOLANT OPTIONAL)	SIZE	RATIO	OUTPUT*
	5	1:1	ER-20A	40/50 Taper
	6	1:1	ER-25	40/50 Taper
	7	1:1	ER-32	40/50 Taper
	10	1:1	ER-40	50 Taper
	20	1:1	ER-50	50 Taper
	30	1:1	ER-50	50 Taper

\*Tools available with other outputs & shanks (BT, HSK, etc.) • Dimensions: millimeters

## “S” SERIES ANGLE HEADS

For machining tasks without geometric constraints. Internal coolant optional.

S 90° ANGLE HEADS		Tool	S4	S5	S6	S7	S10	S20	S30
	OUTPUT	ER-16	ER-20A	ER-25	ER-32	ER-40	ER-50	ER-50	ER-50
	SHANK	BT30	40/50	40/50	40/50	50	50	50	50
	Nm/ft.lbs.	1.5/1.1	15/11.1	43/31.7	70/51.6	120/88.4	250/184.3	500/368.5	500/368.5
	RPM	8,000	8,000	8,000	8,000	6,000	3,000	2,000	2,000
	kg/lbs.	3/6.6	4/8.8	6/13.2	10/22	13/28.6	19/41.8	35/77	35/77
	1	40	42	64	64	80	99	110	110
	2	20	21	32	32	34	45	55	55
	3	85	85	105	105	125	160	180	180
	4	18	18	18	18	18	18	18	18
	5	65	65/80	65/80	65/80	110	110	130	130
6	130	150	200	200	200	200	250	250	
7	60	83	97	98	116	120	120	120	
8	35	43	60	61	63	84	100	100	
9	39	59	95	95	95	90	140	140	

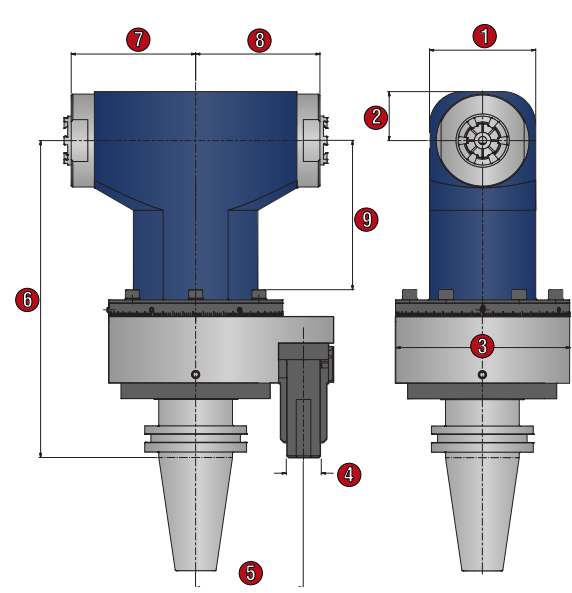
## “G” SERIES ANGLE HEADS

For special machining tasks with strong geometric constraints. Set-back output to maximize the usable tool length. Internal coolant optional.

G EXTENDED LENGTH 90° ANGLE HEADS		Tool	G5	G6	G7	G10	G20	G30
	OUTPUT	ER-20A	ER-25	ER-32	ER-40	ER-50	ER-50	ER-50
	SHANK	40/50	40/50	40/50	50	50	50	50
	Nm/ft.lbs.	15/11.1	43/31.7	70/51.6	120/88.4	250/184.3	500/368.5	500/368.5
	RPM	8,000	6,000	4,000	4,000	3,000	2,000	2,000
	kg/lbs.	6/13.2	8/17.6	12/26.4	16/35.2	23/50.6	36/79.2	36/79.2
	1	60	70	80	90	110	130	130
	2	45	55	65	80	99	119	119
	3	85	105	105	125	160	180	180
	4	18	18	18	18	18	18	18
	5	65/80	65/80	65/80	110	110	130	130
	6	230	240	250	290	330	380	380
7	21	25	32	40	45	55	55	
8	42	50	60	98	113	140	140	
9	57	65	77	94	99	135	135	
10	130	138	146	185	220	270	270	

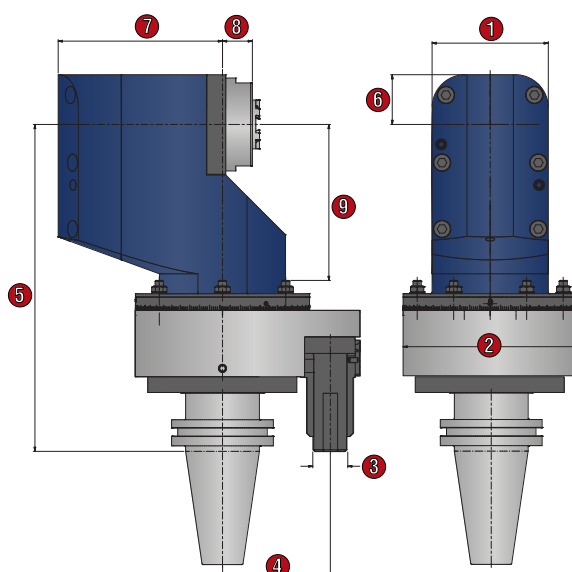
## “S-2” SERIES ANGLE HEADS

For machining tasks in opposite direction or with different machining tools. Internal coolant optional.

<b>S-2 DUAL OUTPUT 90° ANGLE HEADS</b>		Tool	S5-2	S6-2	S7-2	S10-2	S20-2	S30-2
		Price						
OUTPUT		ER-20A	ER-25	ER-32	ER-40	ER-50	ER-50	
SHANK		40/50	40/50	40/50	50	50	50	
Nm/ft.lbs		15/11.1	43/31.7	70/51.6	120/88.4	250/184.3	500/368.5	
RPM		8,000	8,000	8,000	6,000	3,000	2,000	
kg/lbs.		4/8.8	6/13.2	10/22	13/28.6	19/41.8	35/77	
1		42	64	64	80	99	110	
2		21	32	32	34	45	55	
3		85	105	105	125	160	180	
4		18	18	18	18	18	18	
5		65/80	65/80	65/80	110	110	130	
6		150	200	200	200	200	250	
7		55	67	75	87	107	120	
8		55	67	75	87	107	120	
9		59	95	95	95	90	140	

## “W” SERIES ANGLE HEADS

For machining tasks with geometric constraints. Set-back output to maximize the usable tool length. Internal coolant standard, can be omitted optionally.

<b>W OFFSET 90° ANGLE HEADS</b>		Tool	W5	W6	W7	W10	W20	W30
		Price						
OUTPUT		ER-20A	ER-25	ER-32	ER-40	ER-50	ER-50	
SHANK		40/50	40/50	40/50	50	50	50	
Nm/ft.lbs		15/11.1	43/31.7	70/51.6	120/88.4	250/184.3	500/368.5	
RPM		8,000	8,000	8,000	6,000	3,000	2,000	
kg/lbs.		7/15.4	9/19.8	10/22	15/33	20/44	30/66	
1		60	65	70	90	110	140	
2		85	105	105	125	160	180	
3		18	18	18	18	18	18	
4		65/80	65/80	65/80	110	110	130	
5		180	200	200	245	260	280	
6		26	30	37	45	50	60	
7		63	75	84	100	125	150	
8		17	20	25	28	30	35	
9		74	85	96	140	150	170	

## “D” SERIES ANGLE HEADS

For machining tasks in a changing, angular position. Because of the variable adjustment, arbitrary angles between 0°-90° (process reliable) can be set. Up to 110° optional. Internal coolant standard, can be omitted optionally.

D 0°- 90° ADJUSTABLE ANGLE HEADS		Tool	D5	D6	D7	D10	D20	D30
		Price						
		OUTPUT	ER-20A	ER-25	ER-32	ER-40	ER-50	ER-50
		SHANK	40/50	40/50	40/50	50	50	50
		Nm/ft.lbs	15/11.1	43/31.7	70/51.6	120/88.4	250/184.3	500/368.5
		RPM	8,000	6,000	4,000	4,000	3,000	2,000
		kg/lbs.	8/17.6	12/26.4	16/35.2	20/44	28/61.6	41/90.2
		1	94	125	130	135	195	190
		2	85	105	105	125	160	180
		3	18	18	18	18	18	18
		4	65/80	65/80	65/80	110	110	130
5	180	200	200	225	250	280		
6	38	41	50	55	80	110		
7	30	38	40	43	60	75		
8	60	80	85	90	100	120		

## “F” SERIES ANGLE HEADS

For special machining tasks in a fixed angular position. Internal coolant standard, can be omitted optionally.

F CUSTOM FIXED ANGLE HEADS		Tool	F5	F6	F7	F10	F20	F30
		Price						
		OUTPUT	ER-20A	ER-25	ER-32	ER-40	ER-50	ER-50
		SHANK	40/50	40/50	40/50	50	50	50
		Nm/ft.lbs	15/11.1	43/31.7	70/51.6	120/88.4	250/184.3	500/368.5
		RPM	8,000	6,000	4,000	4,000	3,000	2,000
		kg/lbs.	6/13.2	7/15.4	8/17.6	15/33	20/44	35/77
		1	42	64	64	80	99	110
		2	85	105	105	125	160	180
		3	18	18	18	18	18	18
		4	65/80	65/80	65/80	110	110	130
5	200	210	215	250	300	350		
6	90	90	95	105	120	140		
7	45	45	50	55	65	75		

**Dealer** Company: \_\_\_\_\_

**End User** Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

E-mail: \_\_\_\_\_

E-mail: \_\_\_\_\_

Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_

Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_

**1. Machine Information:**  HMC  VMC Make: \_\_\_\_\_ Model: \_\_\_\_\_

Taper:  CAT 40  CAT 50  BT 40  BT 50  HSK 63  HSK 100 Other: \_\_\_\_\_

Tool Changer Specs: Max Weight: \_\_\_\_\_ Max Diameter: \_\_\_\_\_ Max Length: \_\_\_\_\_

**2. Application Information:**

Milling:  End Mill Dia.: \_\_\_\_\_ # of Flutes / Inserts: \_\_\_\_\_

Drilling:  Drill Dia.: \_\_\_\_\_

Depth of Cut: \_\_\_\_\_ Width of Cut: \_\_\_\_\_

RPM: \_\_\_\_\_ IPM: \_\_\_\_\_

RPM: \_\_\_\_\_ IPM: \_\_\_\_\_ Material: \_\_\_\_\_

Material: \_\_\_\_\_

Notes:

**3. Head Information:**

Style of Head:  Fixed 90°  0° - 90° Adjustable

Output:  ER \_\_\_\_\_  Weldon \_\_\_\_\_  Arbor \_\_\_\_\_

Special Fixed Angle \_\_\_\_\_  Dual Output

HSK \_\_\_\_\_  40 Taper  50 Taper

Extended Length \_\_\_\_\_  Tool Changed

Specialty: \_\_\_\_\_

Hand Load  Flange Mount

Smart Change \_\_\_\_\_  W&F \_\_\_\_\_

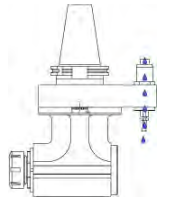
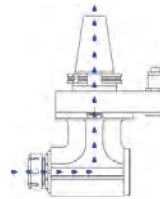
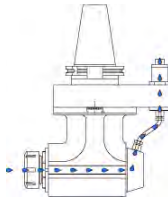
Coolant:

Through Orientation Pin

Through Input Spindle

Through Retaining Block

Coolant Required



Pressure: \_\_\_\_\_

Notes:



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