



HAAS ANGLE HEADS



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 T90sl-0.3 Slimline Control Series					
Specifications					
Standard Tool	Output	NSK			
	RPM Max.	20,000			
	Nm/ft.lbs.	1/.74 - 4/2.95			
	Wgt.kg/lbs.	3.5/7.7			
Options	Output Tools	Model	Ratio	RPM Max.	
	NSK Output Tools for T90sl-0.3	IC-300	1:3/4	15,000	
		MFC-300S	1:1	15,000	
		MFC-300M	1:1	15,000	
		KC-300	1:3/4	15,000	
		CN-01	1:1	15,000	
		RA-100	1:3/8	7,490	
		RA-200	1:0.6665	13,330	

 T90cn-0.5C Control Series			
Specifications			
Standard Tool	Output	ER 11 (0.5-7)	
	Ratio	1:1	
	RPM Max.	6,000	
	Nm/ft.lbs.	5/3.7	
	Wgt.kg/lbs.	4/8.8	
	High Speed	10,000 RPM Maximum	
Options	Output	Weldon Output - 6mm	
	Coolant	Through Pin	

 TCUcn-1.5 Control Series			
Specifications			
Standard Tool	Output	ER 20 (1-13)	
	Ratio	1:1	
	RPM Max.	6,000	
	Nm/ft.lbs.	6/4.4	
	Wgt.kg/lbs.	4.2/9.2	
	High Speed	8,000 RPM Maximum	
Options	Output	Weldon Output - 10mm	
	Coolant	Through Pin	

 T90cn-1.5 Control Series			
Specifications			
Standard Tool	Output	ER 16 (1-10)	
	Ratio	1:1	
	RPM Max.	6,000	
	Nm/ft.lbs.	7/5.2	
	Wgt.kg/lbs.	4.3/9.5	
	High Speed	10,000 RPM Maximum	
Options	Output	Weldon Output - 10mm	
	Coolant	Arbor Output - 13mm	
		Through Pin	
		Through Pin & Spindle	
		Through Shank	



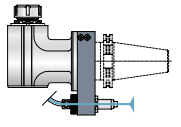
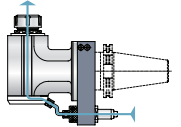
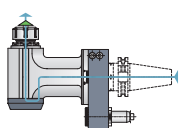
 T90cn-2.5 Control Series			
Specifications			
Standard Tool	Output	ER 25 (2-16)	
	Ratio	1:1	
	RPM Max.	6,000	
	Nm/ft.lbs.	20/14.7	
	Wgt.kg/lbs.	5.4/12	
	High Speed	8,000 RPM Maximum	
Options	Output	Weldon Output - 16mm	
	Coolant	Arbor Output - 16mm	
		Through Pin	
		Through Pin & Spindle	
		Through Shank	

 TCUcn-2.5 Control Series			
Specifications			
Standard Tool	Output	ER 25 (2-16)	
	Ratio	1:1	
	RPM Max.	4,000	
	Nm/ft.lbs.	18/13.3	
	Wgt.kg/lbs.	6.8/15	
Options	High Speed	8,000 RPM Maximum	
	Output	Weldon Output - 16mm	
	Coolant	Through Pin	

 T90cn-2.5 Control Series			
Specifications			
Standard Tool	Output	ER 25 (2-16)	
	Ratio	1:1	
	RPM Max.	6,000	
	Nm/ft.lbs.	20/14.7	
	Wgt.kg/lbs.	5.4/12	
Options	High Speed	8,000 RPM Maximum	
	Output	Weldon Output - 16mm	
		Arbor Output - 16mm	
	Coolant	Through Pin	
		Through Pin & Spindle	
		Through Shank	

 TCUcn-3.5 Control Series			
Specifications			
Standard Tool	Output	ER 32 (3-20)	
	Ratio	1:1	
	RPM Max.	4,000	
	Nm/ft.lbs.	32/23.6	
	Wgt.kg/lbs.	12.8/28.6	
Options	High Speed	6,000 RPM Maximum	
	Output	Weldon Output - 20mm	
		Arbor Output - 22mm	
	Coolant	Through Pin	

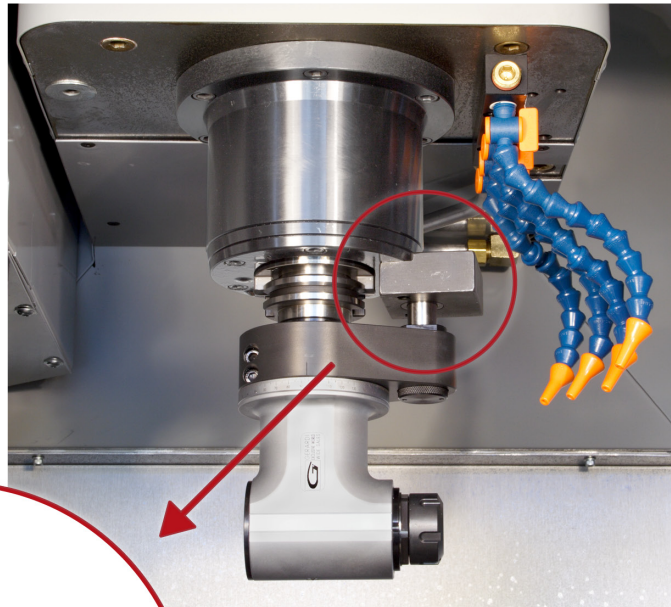
 T90cn-3.5 Control Series			
Specifications			
Standard Tool	Output	ER 32 (3-20)	
	Ratio	1:1	
	RPM Max.	4,000	
	Nm/ft.lbs.	35/25.8	
	Wgt.kg/lbs.	10.9/24.2	
Options	High Speed	6,000 RPM Maximum	
	Output	Weldon Output - 20mm	
		Arbor Output - 22mm	
	Coolant	Through Pin	
		Through Pin & Spindle	
		Through Shank	

Coolant Options	
Coolant Through Pin	
Coolant Through Pin & Spindle	
Coolant Through Shank	



Alberti Angle Head Features:

- One year warranty
- GS600 spheroidal cast iron bodies
- Shafts supported by ABEC 7 super precision angular contact bearings
- Highest performance spiral bevel gears - strength in excess of 300 kg/mm²
- Double sealed front end
- Coolant feed through options
- High speed tools available
- Control Series tools main input shaft is integral with the drive taper to ensure maximum rigidity



KOMA Precision stocks a comprehensive Alberti spare parts inventory and offers complete maintenance and repair services.

It takes just 15 minutes to **supercharge your throughput** with **Alberti** right angle and adjustable angle heads from **KOMA Precision**. An included **HAAS** stop block is easily installed in existing spindle holes.