

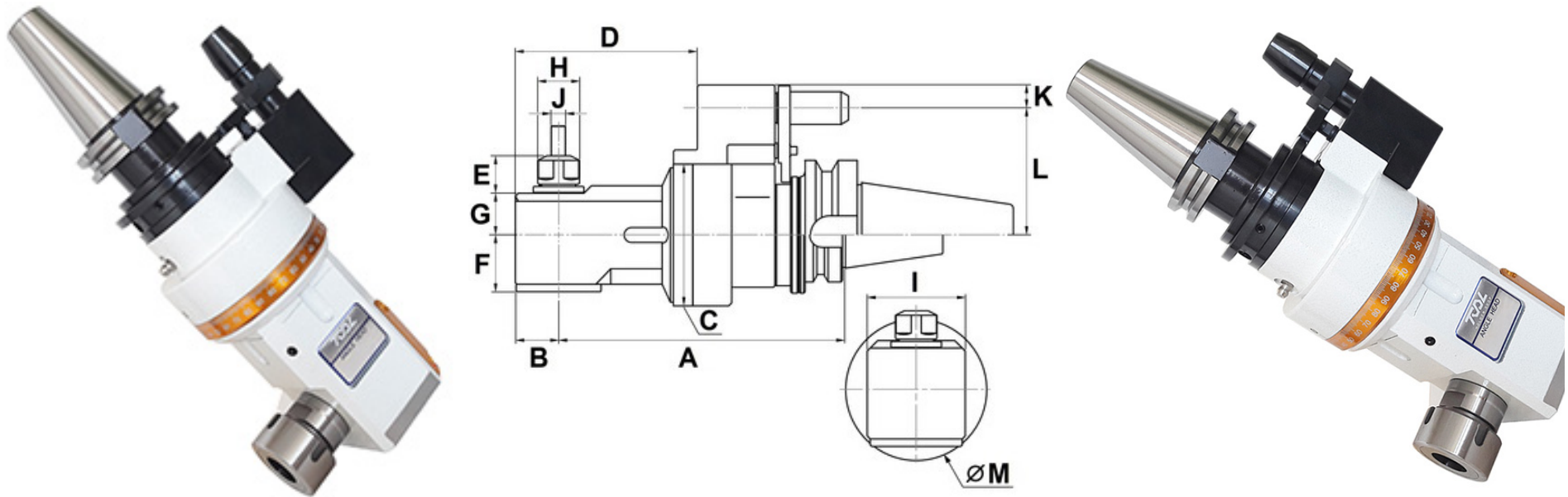


TOOL HOLDER SHOP INC
PRODUCT CATALOG
(c) 2023

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CAT40 ANGULAR HEAD 90 DEGREE MODULAR TYPE ER25 PIN= 80 mm



Run-out:	0.002 mm
Material:	Ductile Cast Iron
R.P.M.:	Max 4000 RPM
Torque:	Max 15 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Hook Spanner, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E max	F	G	H	I	J	K	L	M
SKP009856	192	29	95	122	38	38	28	34	66	1~13 ER20	15.5	65	116
SKP011681												80	
SKP011690												85	
SKP011703	203	29	95	122	38	38	28	34	66	1~13 ER20	15.5	80	116
SKP011704												85	
SKP009857												110	
SKP009858	192	29	95	122	38	38	28	34	66	1~13 ER20	15.5	65	116
SKP011741												80	
SKP011742												85	

SKP011750	203	29	95	122	38	38	28	34	66	1~13 ER20	15.5	80	116
SKP011751												85	
SKP009859												110	
SKP009860	192	29	95	122	38	38	28	34	66	1~13 ER20	15.5	65	116
THS006799												80	
SKP011716												85	
SKP011712	203	29	95	122	38	38	28	34	66	1~13 ER20	15.5	80	116
SKP011725												85	
SKP009861												110	
SKP009865	192	29	95	122	47	38	28	42	66	2~16 ER25	15.5	65	125
SKP011678												80	
SKP011691												85	
SKP011707	203	29	95	122	47	38	28	42	66	2~16 ER25	15.5	80	125
SKP011708												85	
SKP009866												110	
SKP009867	192	29	95	122	47	38	28	42	66	2~16 ER25	15.5	65	125
SKP011745												80	
SKP011746												85	
SKP011754	203	29	95	122	47	38	28	42	66	2~16 ER25	15.5	80	125
SKP011755												85	
SKP009868												110	
THS007020	192	29	95	122	47	38	28	42	66	2~16 ER25	15.5	65	125
THS006638												80	
THS007019												85	
SKP011728	203	29	95	122	47	38	28	42	66	2~16 ER25	15.5	80	125
SKP011729												85	
SKP009870												110	

Updated 2020.8.11:12:45

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS006638	CAT40 ANGULAR HEAD 90 DEGREE MODULAR TYPE ER25 PIN= 80 mm							
THS006799	CAT40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 80 mm							
THS007019	CAT40 ANGULAR HEAD 90 DEGREE MODULAR TYPE ER25 PIN= 85 mm							
THS007020	CAT40 ANGULAR HEAD 90 DEGREE MODULAR TYPE ER25 PIN= 65 mm							

<u>THS014035</u>	BT40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 65 mm
<u>THS014036</u>	BT40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 80 mm
<u>THS014037</u>	BT40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 85 mm
<u>THS014041</u>	BT40 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 65 mm
<u>THS014042</u>	BT40 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 80 mm
<u>THS014043</u>	BT40 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 85 mm
<u>THS014102</u>	BT50 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN=110 mm
<u>THS014103</u>	BT50 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 80 mm
<u>THS014104</u>	BT50 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 85 mm
<u>THS014108</u>	BT50 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN=110 mm
<u>THS014109</u>	BT50 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 80 mm
<u>THS014110</u>	BT50 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 85 mm
<u>THS014117</u>	CAT40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 65 mm
<u>THS014127</u>	CAT50 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 80 mm
<u>THS014128</u>	CAT50 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 85 mm
<u>THS014132</u>	CAT50 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN=110 mm
<u>THS014133</u>	CAT50 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 80 mm
<u>THS014134</u>	CAT50 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 85 mm
<u>THS014138</u>	CAT50 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN=110 mm
<u>THS014142</u>	SK40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 65 mm

<u>THS014143</u>	SK40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 80 mm						
<u>THS014144</u>	SK40 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN= 85 mm						
<u>THS014148</u>	SK40 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 65 mm						
<u>THS014149</u>	SK40 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 80 mm						
<u>THS014150</u>	SK40 ANGULAR HEAD MODULAR TYPE A4 ER25 PIN= 85 mm						
<u>THS014157</u>	SK50 ANGULAR HEAD MODULAR TYPE A2 ER20 PIN=110 mm						

Updated 202302

BT40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 80 mm



Run-out:	0.002 mm
Material:	FCD60 ~ FCD65
R.P.M.:	Max 4000 RPM
Torque:	Max 15 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Hook Spanner, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E max	F	G	H	I	J	K	L	M	N.W. (kg)
SKP009838	227	29	95	156	38	38	28	34	66	1~13(ER20)	15.5	65/80/85	116	8.4
SKP009839	238	29	95	156	38	38	28	34	66	1~13(ER20)	15.5	80/85/110	116	11
SKP009840	227	29	95	156	38	38	28	34	66	1~13(ER20)	15.5	65/80/85	116	8.1
SKP009841	238	29	95	156	38	38	28	34	66	1~13(ER20)	15.5	80/85/110	116	10.8
SKP009842	227	29	95	156	38	38	28	34	66	1~13(ER20)	15.5	65/80/85	116	8.1
SKP009843	238	29	95	156	38	38	28	34	66	1~13(ER20)	15.5	80/85/110	116	10.8
SKP009847	227	29	95	156	47	38	28	42	66	2~16(ER25)	15.5	65/80/85	125	8.4
SKP009848	238	29	95	156	47	38	28	42	66	2~16(ER25)	15.5	80/85/110	125	11
SKP009849	227	29	95	156	47	38	28	42	66	2~16(ER25)	15.5	65/80/85	125	8.1

SKP009850	238	29	95	156	47	38	28	42	66	2~16(ER25)	15.5	80/85/110	125	10.8
SKP009851	227	29	95	156	47	38	28	42	66	2~16(ER25)	15.5	65/80/85	125	8.1
SKP009852	238	29	95	156	47	38	28	42	66	2~16(ER25)	15.5	80/85/110	125	10.8

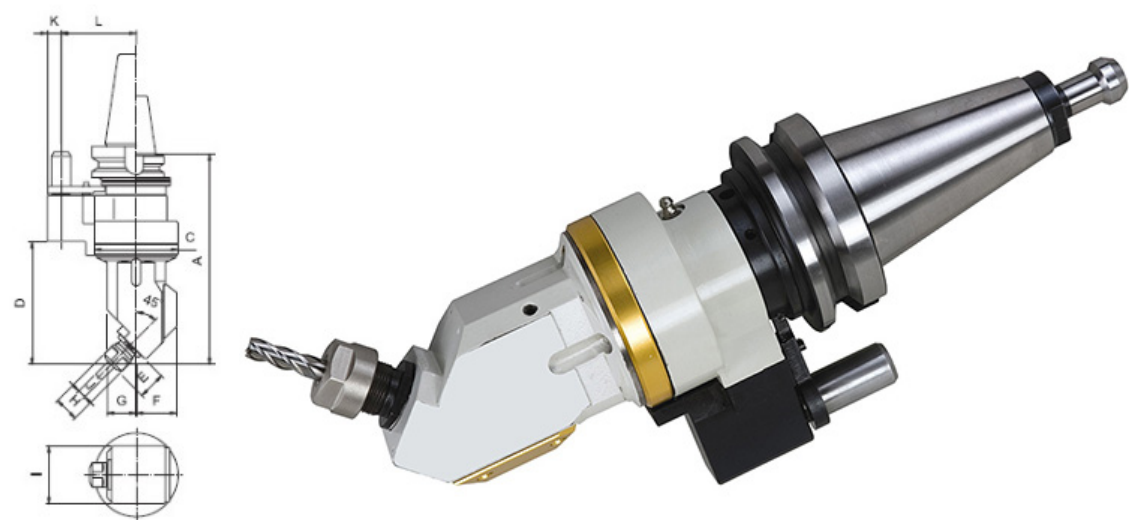
Updated 2021.05.11

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014033	BT40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 80 mm							
THS014034	BT40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 85 mm							
THS014038	BT40 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 65 mm							
THS014039	BT40 ANGULAR HEAD MODULAR TYPE A3 ER32 PIN= 80 mm							
THS014040	BT40 ANGULAR HEAD MODULAR TYPE A3 ER32 PIN= 85 mm							
THS014095	BT40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 65 mm							
THS014099	BT50 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN=110 mm							
THS014100	BT50 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 80 mm							
THS014101	BT50 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 85 mm							
THS014105	BT50 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN=110 mm							
THS014106	BT50 ANGULAR HEAD MODULAR TYPE A3 ER32 PIN= 80 mm							
THS014114	CAT40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 65 mm							
THS014115	CAT40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 80 mm							
THS014116	CAT40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 85 mm							
THS014118	CAT40 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 65 mm							
THS014119	CAT40 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 80 mm							

<u>THS014120</u>	CAT40 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 85 mm
<u>THS014124</u>	CAT50 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN=110 mm
<u>THS014125</u>	CAT50 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 80 mm
<u>THS014126</u>	CAT50 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 85 mm
<u>THS014129</u>	CAT50 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN=110 mm
<u>THS014130</u>	CAT50 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 80 mm
<u>THS014131</u>	CAT50 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 85 mm
<u>THS014139</u>	SK40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 65 mm
<u>THS014140</u>	SK40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 80 mm
<u>THS014141</u>	SK40 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN= 85 mm
<u>THS014145</u>	SK40 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 65 mm
<u>THS014146</u>	SK40 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 80 mm
<u>THS014147</u>	SK40 ANGULAR HEAD MODULAR TYPE A3 ER25 PIN= 85 mm
<u>THS014154</u>	SK50 ANGULAR HEAD MODULAR TYPE A1 ER20 PIN=110 mm

Updated 202302

**BT40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=242 mm
PIN= 65mm**



Run-out:	0.002 mm
Material:	FCD60 ~ FCD65
R.P.M.:	Max 4000 RPM
Torque:	Max 15 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Hook Spanner, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

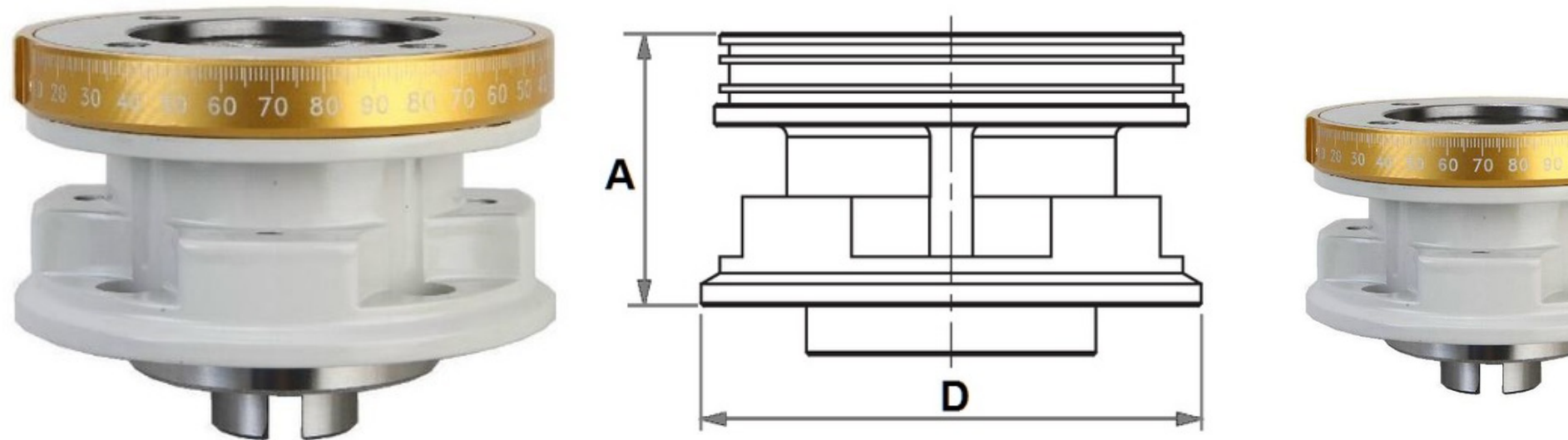
SKU	A	C	D	E	F	G	H	I	J	K	L	N.W. (kg)
SKP009883	238	95	139	30	46	33	34	66	1~13(ER20)	15.5	65/85/80	7.4
SKP009884	249	95	139	30	46	33	34	66	1~13(ER20)	15.5	80/85/110	10.2
SKP009885	238	95	139	30	46	33	34	66	1~13(ER20)	15.5	65/85/80	7.1
SKP009886	249	95	139	30	46	33	34	66	1~13(ER20)	15.5	80/85/110	10
SKP009887	238	95	139	30	46	33	34	66	1~13(ER20)	15.5	65/85/80	7.1
SKP009888	249	95	139	30	46	33	34	66	1~13(ER20)	15.5	80/85/110	10

Updated 2021.05.11

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014096	BT40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=242 mm PIN= 65mm							
THS014097	BT40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=242 mm PIN= 80mm							
THS014098	BT40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=242 mm PIN= 85mm							
THS014111	BT50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN=110 mm							
THS014112	BT50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN= 80 mm							
THS014113	BT50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN= 85 mm							
THS014121	CAT40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=238 mm PIN= 65 mm							
THS014122	CAT40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=238 mm PIN= 80 mm							
THS014123	CAT40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=238 mm PIN= 85 mm							
THS014135	CAT50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN=110 mm							
THS014136	CAT50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN= 80 mm							
THS014137	CAT50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN= 85 mm							
THS014151	SK40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=238 mm PIN= 65 mm							
THS014152	SK40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=238 mm PIN= 80 mm							
THS014153	SK40 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=238 mm PIN= 85 mm							
THS014166	SK50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN=110 mm							
THS014167	SK50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN= 80 mm							
THS014168	SK50 ANGULAR HEAD 45 DEGREE MODULAR TYPE B1 ER20 L=249 mm PIN= 85 mm							

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MODULAR TYPE HEAD SPACER L= 50 mm

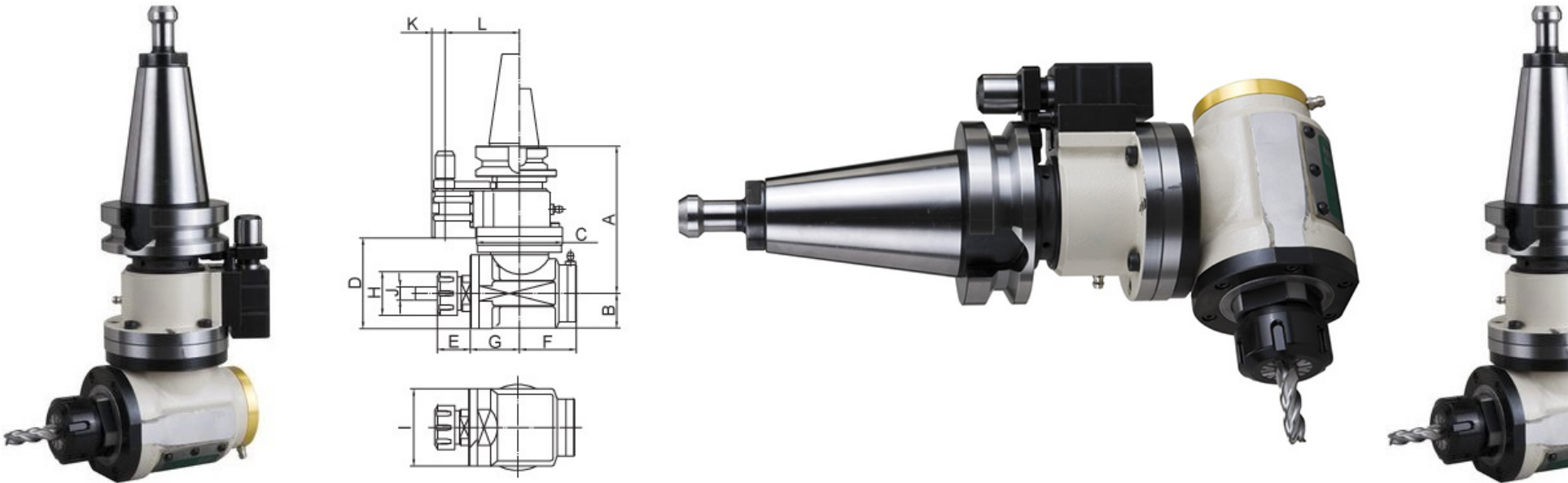


SKU	A	Ø D
SKP009901	50 mm	95 mm
SKP011600	100 mm	95 mm

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014169	MODULAR TYPE HEAD SPACER L= 50 mm							
THS014170	MODULAR TYPE HEAD SPACER L=100 mm							

Updated 202302

BT50 ANGULAR HEAD 90 DEG ER32 PIN= 80 mm



Run-out:	0.002 mm
Material:	FCD60 ~ FCD65
R.P.M.:	Max 4000 RPM
Torque:	Max. 27 Nm
Gear Ratio:	1 : 0.81
Spindle Type:	BT, NT(ISO), SK, CAT
Standard Accessory:	Hook Spanner, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E max	F	G	H	I	J	K	L
THS000048	160	40	98	103	39	65	56	50	88	3 ~ 20	15	65
THS013303	160	40	98	103	39	65	56	50	88	3 ~ 20	15	80
THS013304	160	40	98	103	39	65	56	50	88	3 ~ 20	15	85
THS000047	171	40	98	103	39	65	56	50	88	3 ~ 20	15	80
SKP011616	171	40	98	103	39	65	56	50	88	3 ~ 20	15	85
THS006210	171	40	98	103	39	65	56	50	88	3 ~ 20	15	110
THS000049	160	40	98	103	44	65	56	63	88	4 ~ 26	15	65
THS003679	160	40	98	103	44	65	56	63	88	4 ~ 26	15	80
THS013306	160	40	98	103	44	65	56	63	88	4 ~ 26	15	85

SKP009789	171	40	98	103	44	65	56	63	88	4 ~ 26	15	80
SKP011612	171	40	98	103	44	65	56	63	88	4 ~ 26	15	85
THS003026	171	40	98	103	44	65	56	63	88	4 ~ 26	15	110
SKP009790	171	40	98	103	39	65	56	50	88	3 ~ 20	15	80
SKP011632	171	40	98	103	39	65	56	50	88	3 ~ 20	15	85
SKP011633	171	40	98	103	39	65	56	50	88	3 ~ 20	15	110
SKP009791	171	40	98	103	44	65	56	63	88	4 ~ 26	15	80
SKP011634	171	40	98	103	44	65	56	63	88	4 ~ 26	15	85
SKP011635	171	40	98	103	44	65	56	63	88	4 ~ 26	15	110
SKP009792	160	40	98	103	39	65	56	50	88	3 ~ 20	15	65
SKP011640	160	40	98	103	39	65	56	50	88	3 ~ 20	15	80
SKP011640	160	40	98	103	39	65	56	50	88	3 ~ 20	15	85
SKP011638	171	40	98	103	39	65	56	50	88	3 ~ 20	15	80
SKP011643	171	40	98	103	39	65	56	50	88	3 ~ 20	15	85
SKP009793	171	40	98	103	39	65	56	50	88	3 ~ 20	15	110
SKP009794	160	40	98	103	44	65	56	63	88	4 ~ 26	15	65
THS003188	160	40	98	103	44	65	56	63	88	4 ~ 26	15	80
SKP011637	160	40	98	103	44	65	56	63	88	4 ~ 26	15	85
SKP011644	171	40	98	103	44	65	56	63	88	4 ~ 26	15	80
SKP011631	171	40	98	103	44	65	56	63	88	4 ~ 26	15	85
SKP009795	171	40	98	103	44	65	56	63	88	4 ~ 26	15	110
THS003861	160	40	98	103	39	65	56	50	88	3 ~ 20	15	65
SKP011622	160	40	98	103	39	65	56	50	88	3 ~ 20	15	80
SKP011623	160	40	98	103	39	65	56	50	88	3 ~ 20	15	85
SKP009797	171	40	98	103	39	65	56	50	88	3 ~ 20	15	80
SKP011603	171	40	98	103	39	65	56	50	88	3 ~ 20	15	85
SKP011620	171	40	98	103	39	65	56	50	88	3 ~ 20	15	110
SKP009798	160	40	98	103	44	65	56	63	88	4 ~ 26	15	65
SKP011625	160	40	98	103	44	65	56	63	88	4 ~ 26	15	80
SKP011626	160	40	98	103	44	65	56	63	88	4 ~ 26	15	85
THS003853	171	40	98	103	44	65	56	63	88	4 ~ 26	15	80
THS003852	171	40	98	103	44	65	56	63	88	4 ~ 26	15	85
THS003845	171	40	98	103	44	65	56	63	88	4 ~ 26	15	110

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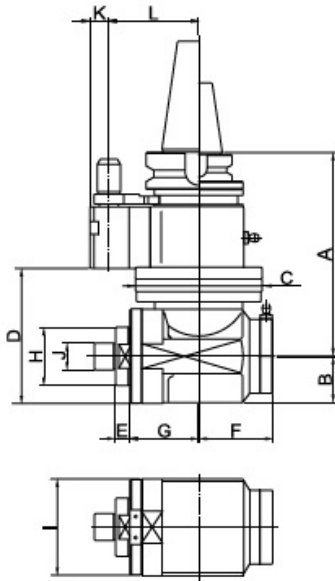
SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS000047	BT50 ANGULAR HEAD 90 DEG ER32 PIN= 80 mm							
	BT 50 TAPER	OTHER	ER32		STATIC STATIC	STRIGHT	EXTERNAL COOLANT	STRIGHT

<u>THS000048</u>	BT40 ANGULAR HEAD 90 DEG ER32 PIN= 65 mm							
	<u>BT 40 TAPER</u>	OTHER	ER32		STATIC STATIC	STRIGHT	EXTERNAL COOLANT	STRIGHT
<u>THS000049</u>	BT40 ANGULAR HEAD 90 DEG ER40 PIN= 65 mm							
	<u>BT 40 TAPER</u>	OTHER	ER40		STATIC STATIC	STRIGHT	EXTERNAL COOLANT	STRIGHT
<u>THS003845</u>	CAT50 ANGULAR HEAD 90 DEG ER40 PIN=110 mm TORQUE=27 Nm							
<u>THS003852</u>	CAT50 ANGULAR HEAD 90 DEG ER40 PIN= 85 mm TORQUE=27 Nm							
<u>THS003853</u>	CAT50 ANGULAR HEAD 90 DEG ER40 PIN= 80 mm TORQUE=50 Nm							
<u>THS003861</u>	CAT40 ANGULAR HEAD ER32 L=160 mm S= 65 mm							
<u>THS013303</u>	BT40 ANGULAR HEAD 90 DEG ER32 PIN= 80 mm							
<u>THS013304</u>	BT40 ANGULAR HEAD 90 DEG ER32 PIN= 85 mm							
<u>THS013305</u>	BT40 ANGULAR HEAD 90 DEG ER40 PIN= 80 mm							
<u>THS013306</u>	BT40 ANGULAR HEAD 90 DEG ER40 PIN= 85 mm							
<u>THS013948</u>	BT50 ANGULAR HEAD 90 DEG ER32 PIN=110 mm							
<u>THS013949</u>	BT50 ANGULAR HEAD 90 DEG ER32 PIN= 85 mm							
<u>THS013950</u>	BT50 ANGULAR HEAD 90 DEG ER40 PIN=110 mm							
<u>THS013951</u>	BT50 ANGULAR HEAD 90 DEG ER40 PIN= 80 mm							
<u>THS013952</u>	BT50 ANGULAR HEAD 90 DEG ER40 PIN= 85 mm							
<u>THS013956</u>	CAT40 ANGULAR HEAD ER32 L=170 mm PIN= 80 mm							
<u>THS013957</u>	CAT40 ANGULAR HEAD ER32 L=160 mm S= 85 mm							
<u>THS013958</u>	CAT40 ANGULAR HEAD ER40 L=160 mm S= 65 mm							
<u>THS013959</u>	CAT40 ANGULAR HEAD ER40 L=160 mm S= 80 mm							
<u>THS013960</u>	CAT40 ANGULAR HEAD ER40 L=160 mm S= 85 mm							

<u>THS013964</u>	CAT50 ANGULAR HEAD ER32 L=160 mm S=110 mm						
<u>THS013965</u>	CAT50 ANGULAR HEAD ER32 L=160 mm S= 80 mm						
<u>THS013966</u>	CAT50 ANGULAR HEAD ER32 L=160 mm S= 85 mm						
<u>THS013970</u>	NT50 ANGULAR HEAD ER32 L=160 mm S=110 mm						
<u>THS013971</u>	NT50 ANGULAR HEAD ER32 L=160 mm S= 80 mm						
<u>THS013972</u>	NT50 ANGULAR HEAD ER32 L=160 mm S= 85 mm						
<u>THS013973</u>	NT50 ANGULAR HEAD ER40 L=160 mm S=110 mm						
<u>THS013974</u>	NT50 ANGULAR HEAD ER40 L=160 mm S= 80 mm						
<u>THS013975</u>	NT50 ANGULAR HEAD ER40 L=160 mm S= 85 mm						

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BT40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm



Run-out:	0.002 mm
Material:	FCD60 ~ FCD65
R.P.M.:	Max 4000 RPM
Torque:	Max. 27 Nm
Gear Ratio:	1 : 0.81
Spindle Type:	BT, NT(ISO), SK, CAT
Standard Accessory:	Open End Wrench
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E	F	G	H	I	J	K	L
SKP009804	160	40	98	103	12	65	56	50	88	25.4	15	65
THS013921	160	40	98	103	12	65	56	50	88	25.4	15	80
SKP011615	160	40	98	103	12	65	56	50	88	25.4	15	85
SKP009805	171	40	98	103	12	65	56	50	88	25.4	15	80
SKP011618	171	40	98	103	12	65	56	50	88	25.4	15	85
SKP011619	171	40	98	103	12	65	56	50	88	25.4	15	110
SKP009806	171	40	98	103	12	65	56	50	88	25.4	15	80
SKP011639	171	40	98	103	12	65	56	50	88	25.4	15	85
SKP011642	171	40	98	103	12	65	56	50	88	25.4	15	110
SKP009807	160	40	98	103	12	65	56	50	88	25.4	15	65

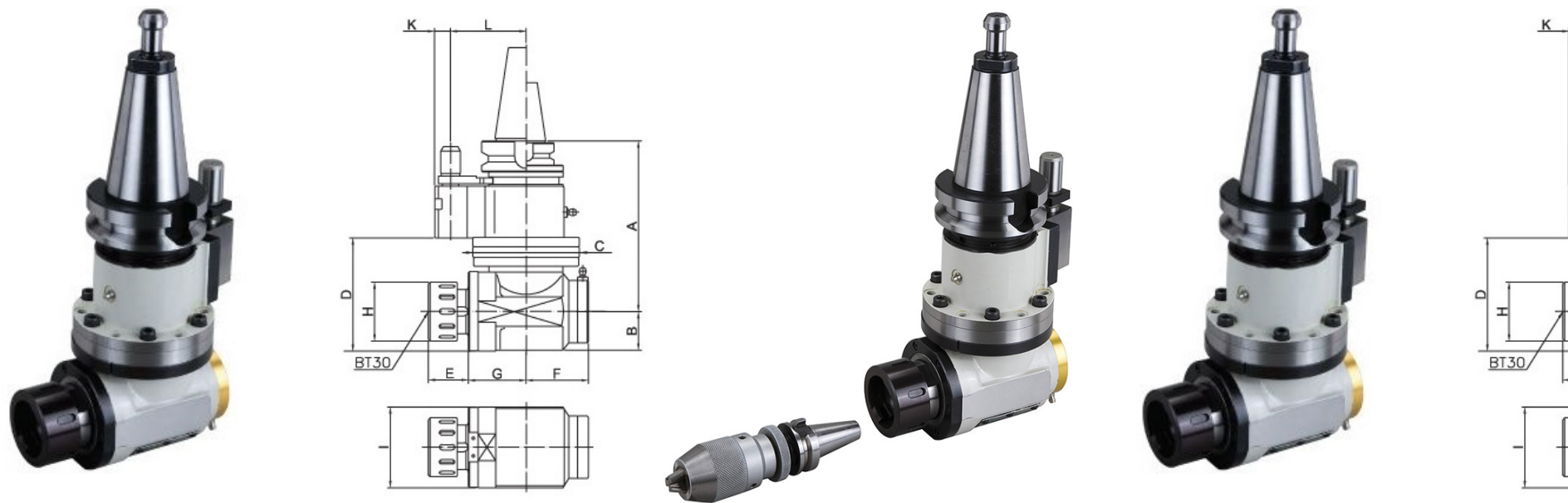
SKP011646	160	40	98	103	12	65	56	50	88	25.4	15	80
SKP011647	160	40	98	103	12	65	56	50	88	25.4	15	85
SKP011621	171	40	98	103	12	65	56	50	88	25.4	15	80
SKP011630	171	40	98	103	12	65	56	50	88	25.4	15	85
SKP009808	171	40	98	103	12	65	56	50	88	25.4	15	110
SKP009809	160	40	98	103	12	65	56	50	88	25.4	15	65
SKP011624	160	40	98	103	12	65	56	50	88	25.4	15	80
SKP011627	160	40	98	103	12	65	56	50	88	25.4	15	85
SKP009810	171	40	98	103	12	65	56	50	88	25.4	15	80
SKP011628	171	40	98	103	12	65	56	50	88	25.4	15	85
SKP011629	171	40	98	103	12	65	56	50	88	25.4	15	110

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013921	BT40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm							
THS013946	BT40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 65 mm							
THS013947	BT40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 85 mm							
THS013953	BT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN=110 mm							
THS013954	BT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm							
THS013955	BT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 85 mm							
THS013961	CAT40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 65 mm							
THS013962	CAT40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm							
THS013963	CAT40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 85 mm							
THS013967	CAT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN=110 mm							
THS013968	CAT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm							
THS013969	CAT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 85 mm							
THS013976	NT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN=110 mm							

<u>THS013977</u>	NT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm							
<u>THS013978</u>	NT50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 85 mm							
<u>THS013985</u>	SK40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 65 mm							
<u>THS013986</u>	SK40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm							
<u>THS013987</u>	SK40 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 85 mm							
<u>THS013994</u>	SK50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN=110 mm							
<u>THS013995</u>	SK50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 80 mm							
<u>THS013996</u>	SK50 ANGULAR HEAD 90 DEG FACE MILL OD=(1)" PIN= 85 mm							

Updated 202302

BT40 ANGULAR HEAD 90 DEGREE BT30 L= 70 mm



Run-out:	0.002 mm
Material:	FCD60 ~ FCD65
R.P.M.:	Max 4000 RPM
Torque:	Max. 47 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Hook Spanner, Open End Wrench, BT Nut
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E	F	G	H	I	K	L
THS003805	192	44.5	120	127.5	45	70	65	66	90	17	70
THS004848											80
THS004849											85
SKP011652	195	44.5	120	127.5	45	70	65	66	90	17	80
SKP011653											85
SKP009814											110
SKP009817	192	44.5	120	127.5	45	70	65	66	90	17	70
SKP011650											80
SKP011651											85

THS005942	195	44.5	120	127.5	45	70	65	66	90	17	80
THS005943											85
THS005941											110
SKP009815	192	44.5	120	127.5	45	70	65	66	90	17	70
SKP011671											80
SKP011672											85
SKP011675	195	44.5	120	127.5	45	70	65	66	90	17	80
SKP011674											85
SKP009816											110

Updated 2020.8.11:12:45

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS000051	HSK100 ANGULAR HEAD 90 DEG HEAVY DUTY BT30							
	BT 30 TAPER	OTHER			STATIC STATIC	STRIGHT	EXTERNAL COOLANT	STRIGHT
THS003805	BT40 ANGULAR HEAD 90 DEGREE BT30 L= 70 mm							
THS004848	BT40 ANGULAR HEAD 90 DEGREE BT30 L= 80 mm							
THS004849	BT40 ANGULAR HEAD 90 DEGREE BT30 L= 85 mm							
THS005941	CAT50 ANGULAR HEAD 90 DEG BT30 L=110 mm HEAVY DUTY							
THS005942	CAT50 ANGULAR HEAD 90 DEG BT30 L= 80 mm HEAVY DUTY							
THS005943	CAT50 ANGULAR HEAD 90 DEG BT30 L= 85 mm HEAVY DUTY							
THS013883	BT50 ANGULAR HEAD BT30 L=110							
THS013884	BT50 ANGULAR HEAD BT30 L= 80							
THS013885	BT50 ANGULAR HEAD BT30 L= 85							
THS013997	CAT40 ANGULAR HEAD 90 DEG BT30 L= 70 mm HEAVY DUTY							
THS013998	CAT40 ANGULAR HEAD 90 DEG BT30 L= 80 mm HEAVY DUTY							
THS013999	CAT40 ANGULAR HEAD 90 DEG BT30 L= 85 mm HEAVY DUTY							

<u>THS014004</u>	SK40 ANGULAR HEAD 90 DEG BT30 L= 70 mm HEAVY DUTY						
<u>THS014005</u>	SK40 ANGULAR HEAD 90 DEG BT30 L= 80 mm HEAVY DUTY						
<u>THS014006</u>	SK40 ANGULAR HEAD 90 DEG BT30 L= 85 mm HEAVY DUTY						
<u>THS014047</u>	SK50 ANGULAR HEAD 90 DEGREE HEAVY DUTY BT30 L=195 mm PIN=110 mm						
<u>THS014048</u>	SK50 ANGULAR HEAD 90 DEGREE HEAVY DUTY BT30 L=195 mm PIN= 80 mm						
<u>THS014049</u>	SK50 ANGULAR HEAD 90 DEGREE HEAVY DUTY BT30 L=195 mm PIN= 85 mm						

Updated 202302

**BT40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192
mm PIN= 70 mm**



Run-out:	0.002 mm
Material:	FCD60 ~ FCD65
R.P.M.:	Max 4000 RPM
Torque:	Max. 47 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Open End Wrench
Output Rotation:	Reverse to Input Rotation

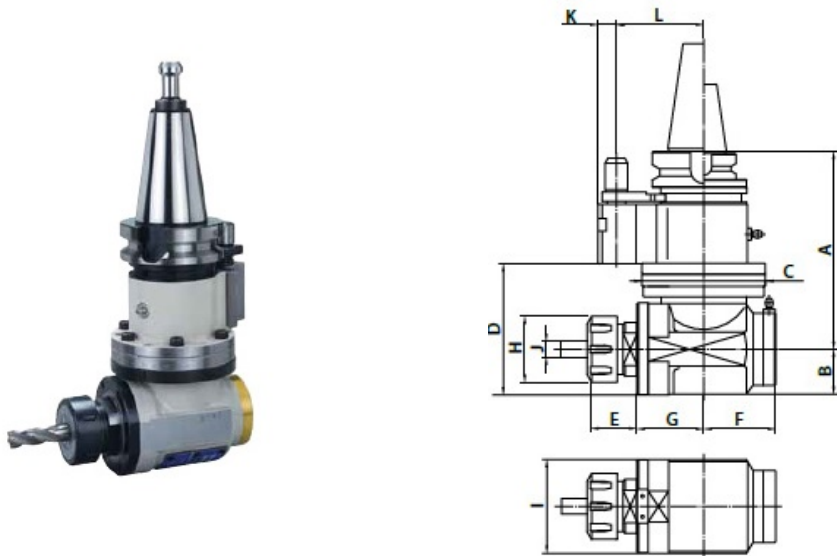
SKU	A	B	C	D	E	F	G	H	I	J	K	L	N.W. (kg)
SKP009829	192	44.5	120	127.5	13.5	70	65	55	90	25.4	17	70/80/85	12.1
SKP009830	195	44.5	120	127.5	13.5	70	65	55	90	25.4	17	80/85/110	14.7
SKP009831	192	44.5	120	127.5	13.5	70	65	55	90	25.4	17	70/80/85	12.1
SKP009832	195	44.5	120	127.5	13.5	70	65	55	90	25.4	17	80/85/110	14.7
SKP009833	192	44.5	120	127.5	13.5	70	65	55	90	25.4	17	70/80/85	12.1
SKP009834	195	44.5	120	127.5	13.5	70	65	55	90	25.4	17	80/85/110	14.7

Updated 2021.05.11

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014053	BT40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 70 mm							
THS014054	BT40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 80 mm							
THS014055	BT40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 85 mm							
THS014056	BT50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN=110 mm							
THS014057	BT50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN= 80 mm							
THS014058	BT50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN= 85 mm							
THS014059	CAT40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 70 mm							
THS014060	CAT40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 80 mm							
THS014061	CAT40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 85 mm							
THS014062	CAT50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN=110 mm							
THS014063	CAT50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN= 80 mm							
THS014064	CAT50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN= 85 mm							
THS014065	SK40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 70 mm							
THS014066	SK40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 80 mm							
THS014067	SK40 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=192 mm PIN= 85 mm							
THS014068	SK50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN=110 mm							
THS014069	SK50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN= 80 mm							
THS014070	SK50 ANGULAR HEAD 90 DEGREE FACE MILL HEAVY DUTY OD=(1") L=195 mm PIN= 85 mm							

Updated 202302

CAT50 ANGULAR HEAD 90 DEG ER40 PIN=110 mm TORQUE=47 Nm



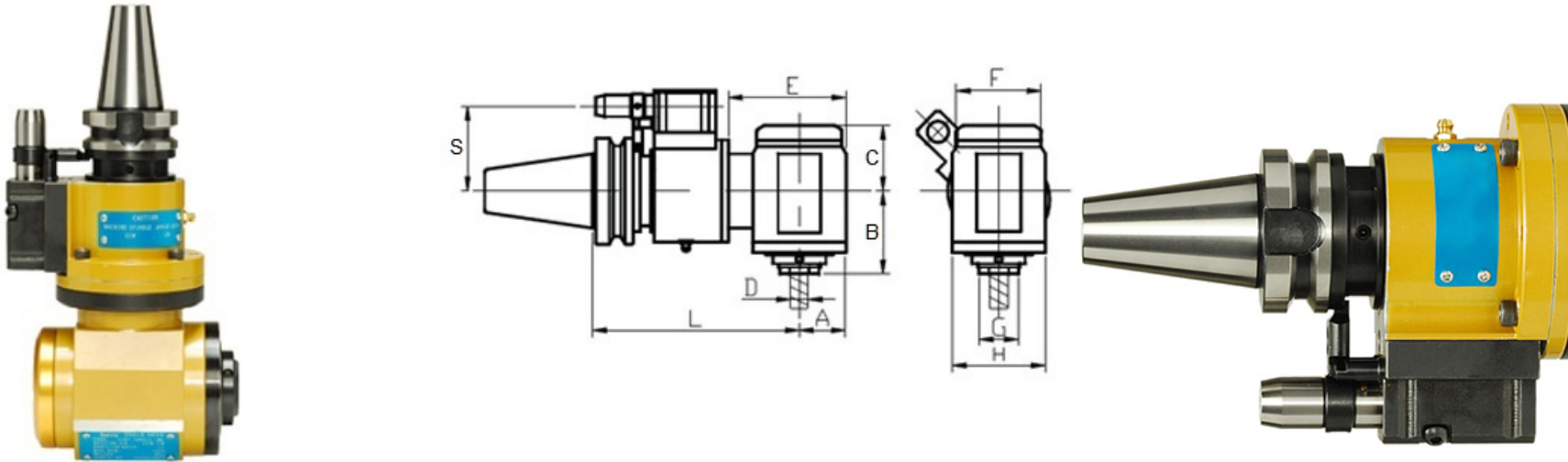
Run-out:	0.002 mm
Material:	FCD60 ~ FCD65
R.P.M.:	Max 4000 RPM
Torque:	Max. 47 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Hook Spanner, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

Model	A	B	C	D	E max	F	G	H	I	J	K	L	N.W. (kg)
<u>AHB-BT40-ER40</u>	192	44.5	120	127.5	44	70	65	63	90	4~26	17	70/80/85	12.1
<u>AHB-BT50-ER40</u>	195	44.5	120	127.5	44	70	65	63	90	4~26	17	80/85/110	14.7
<u>AHB-SK40-ER40</u>	192	44.5	120	127.5	44	70	65	63	90	4~26	17	70/80/85	12.1
<u>AHB-SK50-ER40</u>	195	44.5	120	127.5	44	70	65	63	90	4~26	17	80/85/110	14.7
<u>AHB-CAT40-ER40</u>	192	44.5	120	127.5	44	70	65	63	90	4~26	17	70/80/85	12.1
<u>AHB-CAT50-ER40</u>	195	44.5	120	127.5	44	70	65	63	90	4~26	17	80/85/110	14.7

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS000050	HSK100 ANGULAR HEAD 90 DEG HEAVY DUTY ER40							
	100 TAPER	OTHER	ER40		STATIC STATIC	STRIGHT	EXTERNAL COOLANT	STRIGHT
THS003846	CAT50 ANGULAR HEAD 90 DEG ER40 PIN=110 mm TORQUE=47 Nm							
THS003854	CAT50 ANGULAR HEAD 90 DEG ER40 PIN= 80 mm TORQUE=70 Nm							
THS003855	CAT50 ANGULAR HEAD 90 DEG ER40 PIN= 85 mm TORQUE=47 Nm							
THS004845	BT40 ANGULAR HEAD 90 DEG ER40 L= 65 mm HEAVY DUTY							
THS004846	BT40 ANGULAR HEAD 90 DEG ER40 L= 80 mm HEAVY DUTY							
THS004847	BT40 ANGULAR HEAD 90 DEG ER40 L= 85 mm HEAVY DUTY							
THS007015	BT50 ANGULAR HEAD 90 DEG ER40 L=110 mm HEAVY DUTY							
THS007016	BT50 ANGULAR HEAD 90 DEG ER40 L= 80 mm HEAVY DUTY							
THS007017	BT50 ANGULAR HEAD 90 DEG ER40 L= 85 mm HEAVY DUTY							
THS014001	CAT40 ANGULAR HEAD 90 DEG ER40 L= 65 mm HEAVY DUTY							
THS014002	CAT40 ANGULAR HEAD 90 DEG ER40 L= 80 mm HEAVY DUTY							
THS014003	CAT40 ANGULAR HEAD 90 DEG ER40 L= 85 mm HEAVY DUTY							
THS014044	SK40 ANGULAR HEAD 90 DEGREE HEAVY DUTY ER40 L=198 mm PIN= 70 mm							
THS014045	SK40 ANGULAR HEAD 90 DEGREE HEAVY DUTY ER40 L=198 mm PIN= 80 mm							
THS014046	SK40 ANGULAR HEAD 90 DEGREE HEAVY DUTY ER40 L=198 mm PIN= 85 mm							
THS014050	SK50 ANGULAR HEAD 90 DEGREE HEAVY DUTY ER40 L=195 mm PIN=110 mm							
THS014051	SK50 ANGULAR HEAD 90 DEGREE HEAVY DUTY ER40 L=195 mm PIN= 80 mm							
THS014052	SK50 ANGULAR HEAD 90 DEGREE HEAVY DUTY ER40 L=195 mm PIN= 85mm							

Updated 202302

BT40 ANGULAR HEAD 90 DEGREE ER32 L=150 mm PIN= 65 mm



Material: FCD60 ~ FCD65
R.P.M.: Max 3000 RPM
Gear Ratio: 1 : 1
Spindle Type: BT, SK

SKU	Ø D	S	L	A	B	C	E	F	Ø G	H
THS014022	2 ~ 20	60	150	44	78.2	63.8	89	80	36	88
THS014027		65								
SKP002904	2 ~ 20	60	185	44	78.2	63.8	113	80	36	88
SKP002904		65								
SKP002904	2 ~ 20	80	175	44	78.2	63.8	103	80	36	88
SKP002904		85								
SKP002904		110								
SKP002904	2 ~ 20	80	195	44	78.2	63.8	113	80	36	88
SKP002904		85								
SKP002904		110								
SKP002904	2 ~ 20	60	176	44	78.2	63.8	113	80	36	88
SKP010716		65								

SKP010715	2 ~ 20	80	173	44	78.2	63.8	113	80	36	88
SKP010715		85								
SKP010715		110								

Updated 2021.05.11

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014022	BT40 ANGULAR HEAD 90 DEGREE ER32 L=150 mm PIN= 65 mm							
	BT 40 TAPER							
THS014023	BT40 ANGULAR HEAD 90 DEGREE ER32 L=185 mm PIN= 65 mm							
	BT 40 TAPER							
THS014025	BT50 ANGULAR HEAD 90 DEGREE ER32 L=175 mm							
	BT 50 TAPER							
THS014026	BT50 ANGULAR HEAD 90 DEGREE ER32 L=195 mm							
	BT 50 TAPER							
THS014027	BT40 ANGULAR HEAD 90 DEGREE ER32 L=150 mm PIN= 60 mm							
THS014030	SK40 ANGULAR HEAD 90 DEGREE ER32 L=176 mm PIN= 60 mm							
THS014032	SK50 ANGULAR HEAD 90 DEGREE ER32 L=173 mm PIN= 80 mm							

Updated 202302

Tool holder machine interface: CNC MILLING SPINDLE turret, BT-40, TAPER, ANY

CAT40 ANGULAR HEAD 90 DEG CAT40



Run-out:	0.002 mm
Material:	Ductile Cast Iron (FCD65)
R.P.M.:	Max. 4000 RPM
Torque:	Max. 100 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Output Interface:	BT 40, CAT 40
Standard Accessory:	Open End Wrench, L-type Wrench
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E	F	G	H	I	J	K
THS004696	164	46	138	126	100	100	193	88	180	BT40	BT40 / SK40
THS003920										CAT40	CAT40
THS004779										SK40	BT40 / SK40
THS004778	164	46	138	126	100	100	193	88	180	BT50	BT40 / SK40
THS004695										CAT50	CAT40
THS004780										SK50	BT40 / SK40

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS003920	CAT40 ANGULAR HEAD 90 DEG CAT40							
THS004695	CAT50 ANGULAR HEAD 90 DEG OUTPUT CAT40							
THS004696	BT40 ANGULAR HEAD 90 DEG BT40 OR SK40							
THS004778	BT50 ANGULAR HEAD 90 DEG BT40 OR SK40							
THS004779	SK40 ANGULAR HEAD 90 DEG BT40 OR SK40							
THS004780	SK50 ANGULAR HEAD 90 DEG BT40 OR SK40							

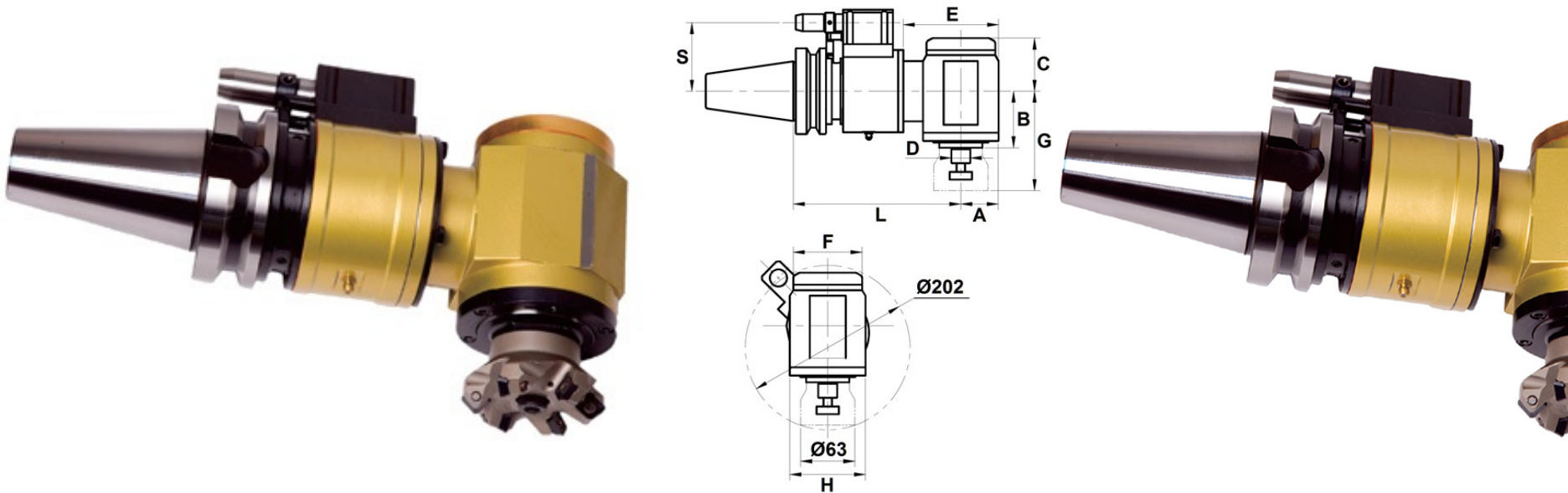
Updated 202302

Angle Head 90 degree AHD-A1

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS016577	BT50 ANGULAR HEAD 90 DEG OUTPUT BT40							

Updated 202302

BT50 ANGULAR HEAD 90 DEGREE FACE MILL OD=22 mm L=175 mm PIN= 80 mm



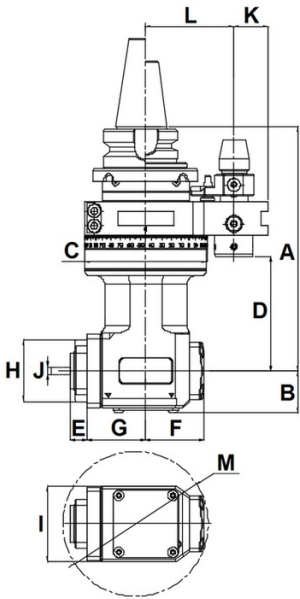
SKU	Ø D	S	L	A	B	C	E	F	G	H
SKP010721	22	80	195	44	66	63.8	113	80	116	88
SKP010721		85								
SKP010721		110								
SKP010722	22	80	175	44	66	63.8	113	80	116	88
SKP010722		85								
SKP010722		110								

Updated 2021.05.11

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014028	BT50 ANGULAR HEAD 90 DEGREE FACE MILL OD=22 mm L=175 mm PIN= 80 mm							
	BT 50 TAPER							
THS014029	BT50 ANGULAR HEAD 90 DEGREE FACE MILL OD=22 mm L=195 mm PIN= 80 mm							
	BT 50 TAPER							

Updated 202302
Tool holder machine interface: CNC MILLING SPINDLE turret, BT-50, TAPER, ANY

HSK63A ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=191.5 mm



Run-out	0.002 mm
Material	Aerospace Aluminum Alloy
R.P.M.	Max 6000 RPM
Torque	Max. 15 Nm
Drilling	Max. 12 mm
Tapping	Max. M8 Nm
Gear Ratio	1 : 1
Spindle Type	BT, SK (ISO), CAT, HSK
Standard Accessory	Open End Wrench, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation

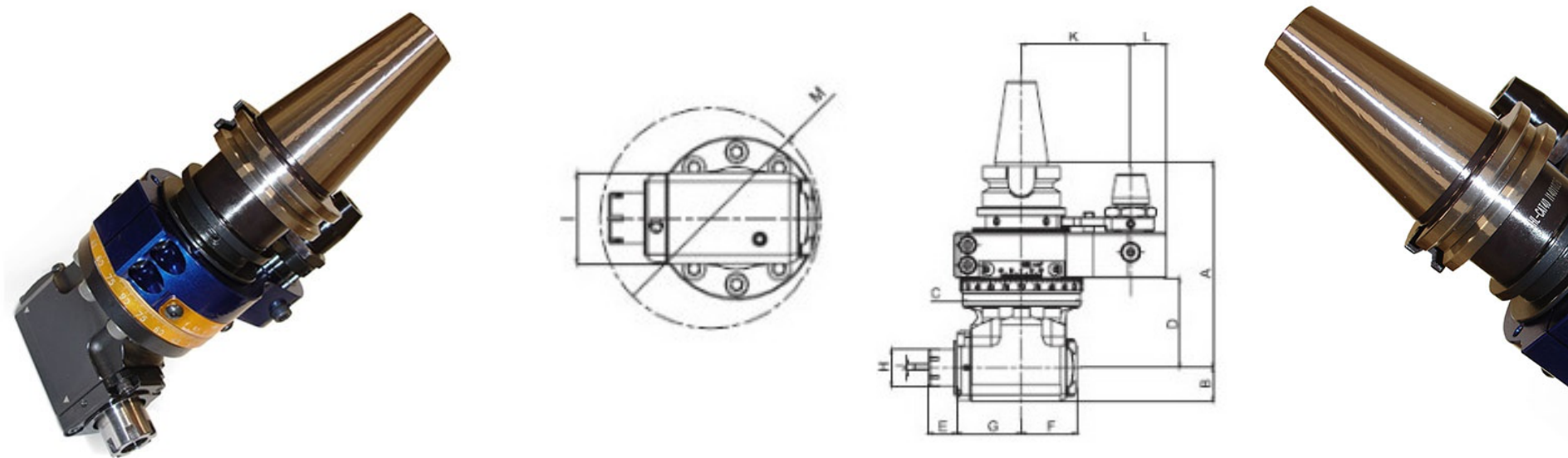
SKU No.	Spindle Taper	A	B	C	D	E	F	G	H	I	J	K	L	M
THS013518	BT30	180	31.2	90	84.5	26.5	43	43.5	43	60	1~16 ER25	25	65	120
THS013520	BT40													
THS013522	SK30													
THS013525	SK40													
THS013529	CAT30													
THS013526	CAT40	191.5	31.2	90	84.5	26.5	43	43.5	43	60	1~16 ER25	25	65	120
THS007254	HSK63													

THS013519	BT30	180	31.2	90	84.5	12	43	43.5	45	60	1~13 ER20	25	65	105
THS013521	BT40													
THS013523	SK30													
THS013524	SK40													
THS013530	CAT30													
THS013527	CAT40													
THS013528	HSK63	191.5	31.2	90	84.5	12	43	43.5	45	60	1~13 ER20	25	65	105

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS007254	HSK63A ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=191.5 mm							
THS013518	BT30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=180 mm							
THS013519	BT30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=180 mm							
THS013520	BT40 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=180 mm							
THS013521	BT40 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=180 mm							
THS013522	SK30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=180 mm							
THS013523	SK30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=180 mm							
THS013524	SK40 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=180 mm							
THS013525	SK40 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=180 mm							
THS013526	CAT40 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=184 mm							
THS013527	CAT40 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=184 mm							
THS013528	HSK63A ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=191.5 mm							
THS013529	CAT30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=180 mm							
THS013530	CAT30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=180 mm							

Updated 202302

CAT40 ANGULAR HEAD ER16 L=122 mm PIN= 65 mm



Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 4000 RPM
Torque:	Max. 12 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Open End Wrench, L-type Wrench
Output Rotation:	Reverse to Input Rotation

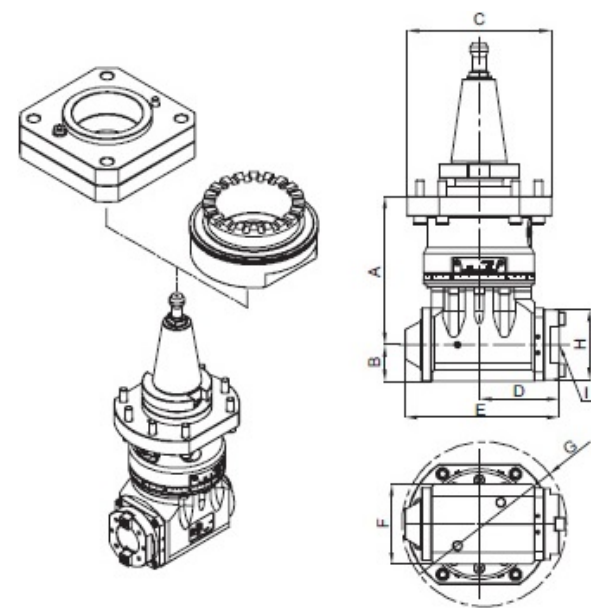
SKU	A	B	C	D	E	F	G	H	I	J	K	L	M
SKP013558	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	55	21	95
SKP019994	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	55	21	95
SKP020032	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	55	21	95
SKP020031	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	55	21	95
SKP019992	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	55	21	95
THS007012	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	55	21	95
SKP064272	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	65	21	95
SKP064273	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	65	21	95
SKP064276	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	65	21	95
SKP064277	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	65	21	95

SKP064274	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	65	21	95
THS007011	122	20	70	53.5	17	33.1	38.3	22	39.5	1~10(ER16)	65	21	95

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS007011	CAT40 ANGULAR HEAD ER16 L=122 mm PIN= 65 mm							
THS007012	CAT40 ANGULAR HEAD ER16 L=122 mm PIN= 55 mm							
THS014009	SK30 ANGULAR HEAD ER16 L=122 mm PIN= 55 mm SLIM A1							
THS014010	SK30 ANGULAR HEAD ER16 L=122 mm PIN= 65 mm SLIM A1							
THS014011	SK40 ANGULAR HEAD ER16 L=122 mm PIN= 55 mm SLIM A1							
THS014012	SK40 ANGULAR HEAD ER16 L=122 mm PIN= 65 mm SLIM A1							
THS014084	BT30 ANGULAR HEAD 90 DEGREE SLIM A1 ER16 L=122 mm PIN= 55 mm							
THS014085	BT30 ANGULAR HEAD 90 DEGREE SLIM A1 ER16 L=122 mm PIN= 65 mm							
THS014086	BT40 ANGULAR HEAD 90 DEGREE SLIM A1 ER16 L=122 mm PIN= 55 mm							
THS014087	BT40 ANGULAR HEAD 90 DEGREE SLIM A1 ER16 L=122 mm PIN= 65 mm							
THS014093	CAT30 ANGULAR HEAD 90 DEGREE SLIM A1 ER16 L=122 mm PIN= 55 mm							
THS014094	CAT30 ANGULAR HEAD 90 DEGREE SLIM A1 ER16 L=122 mm PIN= 65 mm							

Updated 202302

BT50 ANGULAR HEAD 90 DEGREE BT40 L=185 mm FLANGE MOUNTED
HIRTH FOR VTC



Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 4000 RPM
Torque:	Max. 60 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Output Interface:	BT 40
Standard Accessory:	Open End Wrench, L-type Wrench
Output Rotation:	Reverse to Input Rotation

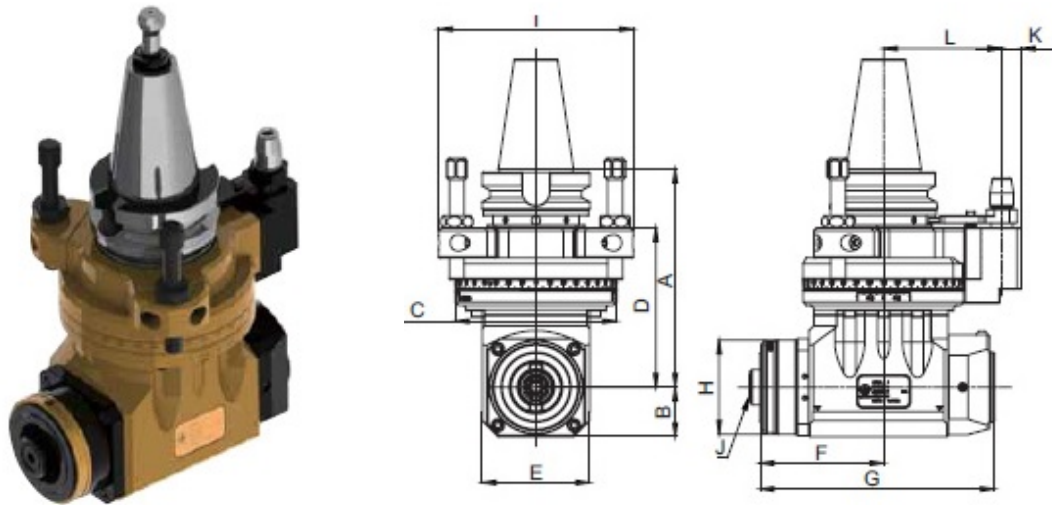
SKU	A	B	C	D	E	F	G	H	I
SKP020046	185	46	180	100	193	100	205	88	BT40
SKP020048									
SKP020023									

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
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THS014088	BT50 ANGULAR HEAD 90 DEGREE BT40 L=185 mm FLANGE MOUNTED HIRTH FOR VTC							
THS014089	CAT50 ANGULAR HEAD 90 DEGREE BT40 L=185 mm FLANGE MOUNTED HIRTH FOR VTC							
THS014090	SK50 ANGULAR HEAD 90 DEGREE BT40 L=185 mm FLANGE MOUNTED HIRTH FOR VTC							

Updated 202302

BT50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT
MOUNTED COOLANT THROUGH



Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 4000 RPM
Torque:	Max. 60 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Output Interface:	HSK 63
Standard Accessory:	Open End Wrench, L-type Wrench
Output Rotation:	Reverse to Input Rotation

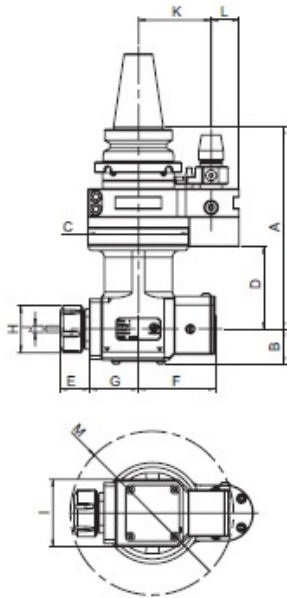
SKU	A	B	C	D	E	F	G	H	I	J	K	L
SKP020021	202.5	46	150	148	100	115	218	87	239	HSK63	18	110
SKP020045												
SKP020022												

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
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THS014078	BT50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT MOUNTED COOLANT THROUGH						
THS014080	CAT50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT MOUNTED COOLANT THROUGH						
THS014083	SK50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT MOUNTED COOLANT THROUGH						

Updated 202302

BT30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=180 mm
COOLANT THROUGH



Run-out	0.002 mm
Material	Aerospace Aluminum Alloy
R.P.M.	Max 6000 RPM
Torque	Max. 15 Nm
Gear Ratio	1 : 1
Spindle Type	BT, CAT, SK
Standard Accessory	Open End Wrench, ER Wrench, ER Nut

SKU	A	B	C	D	E	F	G	H	I	J	K	L	M
SKP020006	180	31.2	90	84.5	26.5	68.7	43.5	42	60	1~16 (ER25)	65	25	120
THS013520	180	31.2	90	84.5	26.5	68.7	43.5	42	60	1~16 (ER25)	65	25	120
THS013522	180	31.2	90	84.5	26.5	68.7	43.5	42	60	1~16 (ER25)	65	25	120
THS013525	180	31.2	90	84.5	26.5	68.7	43.5	42	60	1~16 (ER25)	65	25	120
SKP020007	180	31.2	90	84.5	26.5	68.7	43.5	42	60	1~16 (ER25)	65	25	120
THS013526	180	31.2	90	84.5	26.5	68.7	43.5	42	60	1~16 (ER25)	65	25	120

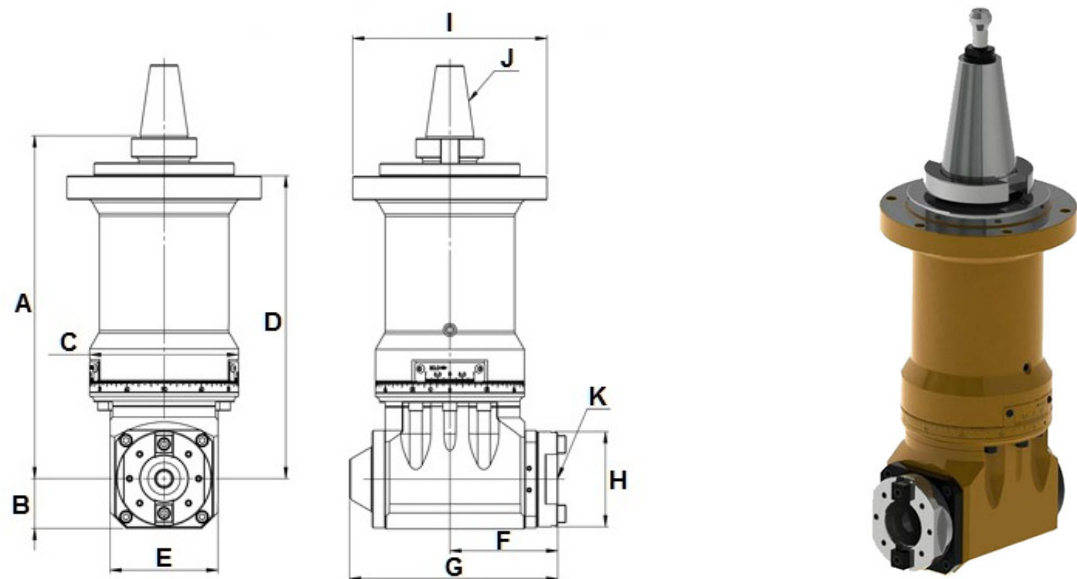
Internal Coolant available by special order

Updated 2021.05.11

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014015	BT30 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER25 L=180 mm COOLANT THROUGH							
THS014016	BT40 ANGULAR HEAD 90 DEGREE ALUMINUM BODY ER20 L=180 mm COOLANT THROUGH							
THS014018	CAT30 ANGULAR HEAD 90 DEG ALUM BODY ER25 L=180 mm PIN= 65 mm COOLANT THROUGH							
THS014019	CAT40 ANGULAR HEAD 90 DEG ALUM BODY ER20 L=180 mm PIN= 65 mm COOLANT THROUGH							

Updated 202302

BT40 ANGULAR HEAD 90 DEG BT40 L=317 mm



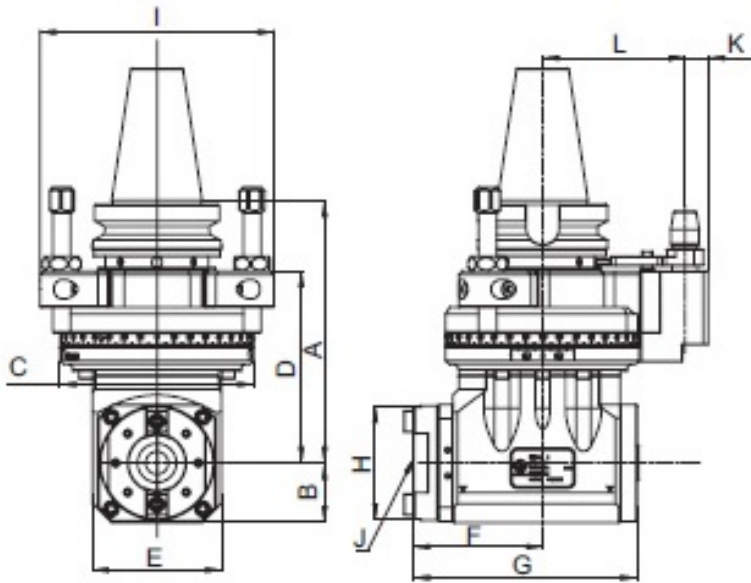
Run-out:	0.002 mm
Material:	Ductile Cast Iron
R.P.M.:	Max. 4000 RPM
Torque:	Max. 100 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Output Interface:	BT 40
Standard Accessory:	Open End Wrench, L-type Wrench
Output Rotation:	Reverse to Input Rotation

SKU	L	B	C	D	E	F	G	H	I	J	K
IHS004705	318	46	138	280	100	100	193	88	180	BT40	BT40
SKP020015										CAT40	
SKP020042										SK40	
SKP011795	318	46	138	280	100	100	193	88	180	BT50	BT40
THS013232										CAT50	
SKP020041										SK50	

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
IHS004705	BT40 ANGULAR HEAD 90 DEG BT40 L=317 mm							
IHS013232	CAT50 ANGULAR HEAD 90 DEGREE CAT40 L=318 mm FLANGE MOUNTED							
IHS014071	BT50 ANGULAR HEAD 90 DEGREE BT40 L=318 mm FLANGE MOUNTED							
IHS014072	CAT40 ANGULAR HEAD 90 DEGREE BT40 L=318 mm FLANGE MOUNTED							
IHS014073	SK40 ANGULAR HEAD 90 DEGREE BT40 L=318 mm FLANGE MOUNTED							
IHS014074	SK50 ANGULAR HEAD 90 DEGREE BT40 L=318 mm FLANGE MOUNTED							

Updated 202302

BT50 ANGULAR HEAD 90 DEGREE BT40 L=202 mm PIN=110 mm BOLT MOUNTED



Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 4000 RPM
Torque:	Max. 60 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Output Interface:	BT 40
Standard Accessory:	Open End Wrench, L-type Wrench
Output Rotation:	Reverse to Input Rotation

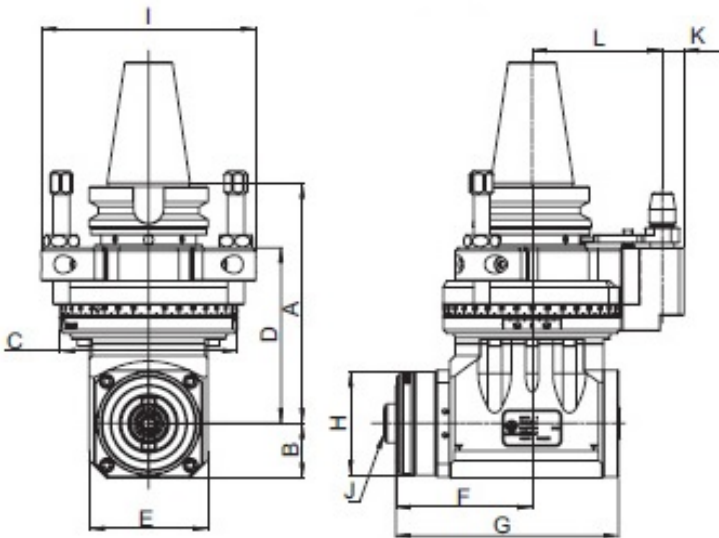
SKU	A	B	C	D	E	F	G	H	I	J	K	L
SKP020017	202.5	46	150	148	100	100	193	88	239	BT40	18	110
SKP020043												
SKP020018												

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
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THS014075	BT50 ANGULAR HEAD 90 DEGREE BT40 L=202 mm PIN=110 mm BOLT MOUNTED							
THS014076	CAT50 ANGULAR HEAD 90 DEGREE BT40 L=202 mm PIN=110 mm BOLT MOUNTED							
THS014081	SK50 ANGULAR HEAD 90 DEGREE BT40 L=202 mm PIN=110 mm BOLT MOUNTED							

Updated 202302

BT50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT MOUNTED



Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 4000 RPM
Torque:	Max. 60 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Output Interface:	HSK 63
Standard Accessory:	Open End Wrench, L-type Wrench
Output Rotation:	Reverse to Input Rotation

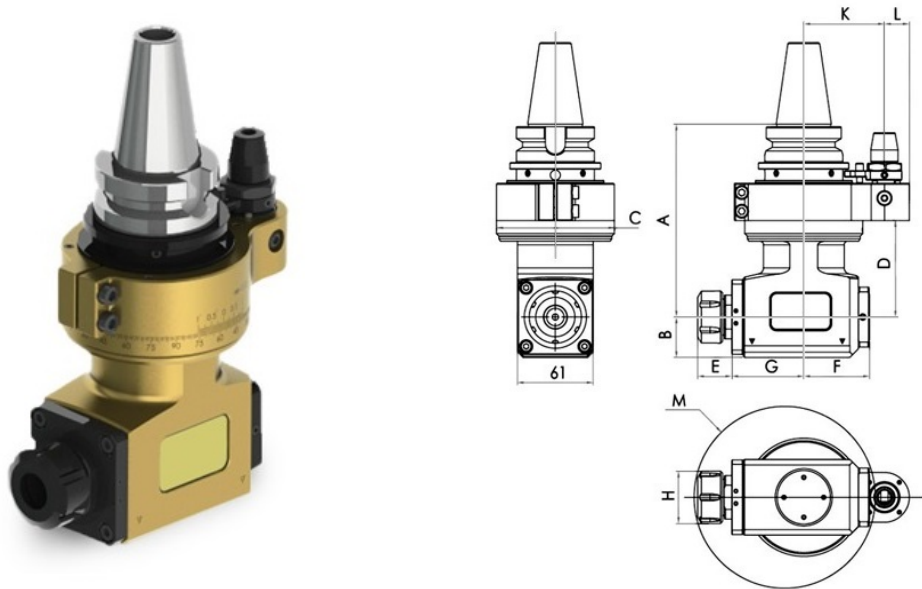
SKU	A	B	C	D	E	F	G	H	I	J	K	L
SKP020019	202.5	46	150	148	100	115	208	87	239	HSK63	18	110
SKP020044												
SKP020020												

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
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THS014077	BT50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT MOUNTED							
THS014079	CAT50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT MOUNTED							
THS014082	SK50 ANGULAR HEAD 90 DEGREE HSK63 L=202 mm PIN=110 mm BOLT MOUNTED							

Updated 202302

CAT40 ANGULAR HEAD ER25 L=155 mm PIN= 65 mm SLIM A2



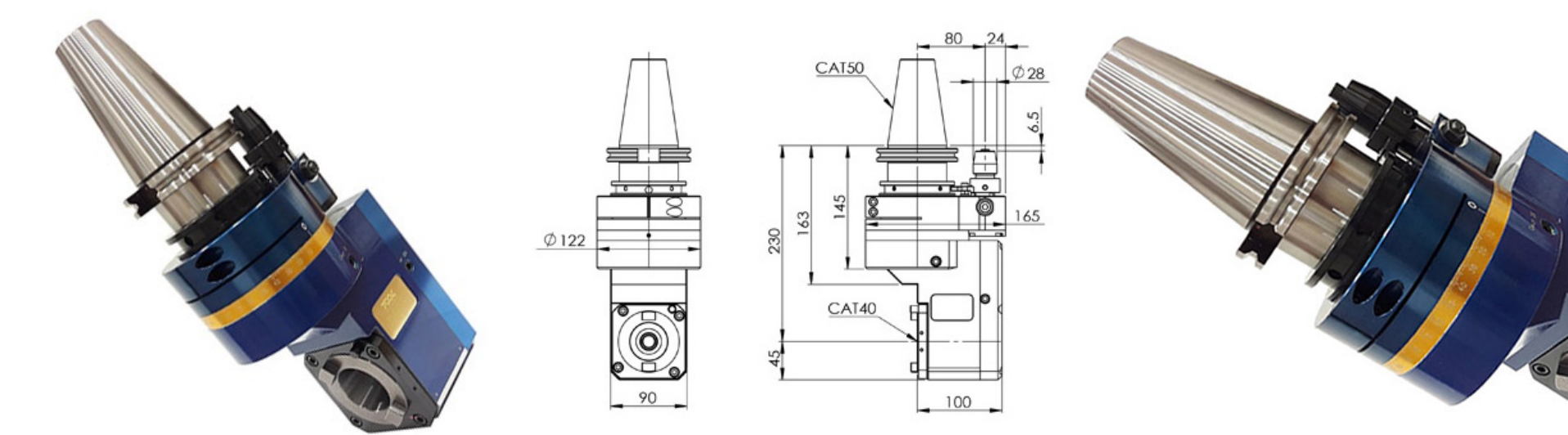
Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 4000 RPM
Torque:	Max. 30 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK(ISO), CAT
Standard Accessory:	Open End Wrench, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E	F	G	H	I	J	K	L	M
SKP064976	155	32.5	95	61	27.5	53	58	42	61	1~16(ER25)	65	20	146
SKP064978	155	32.5	95	61	27.5	53	58	42	61	1~16(ER25)	65	20	146
SKP064980	155	32.5	95	61	27.5	53	58	42	61	1~16(ER25)	65	20	146
SKP064977	155	32.5	95	77.5	32.5	53	58	50	61	3~20(ER32)	65	20	152
SKP064979	155	32.5	95	77.5	32.5	53	58	50	61	3~20(ER32)	65	20	152
SKP064981	155	32.5	95	77.5	32.5	53	58	50	61	3~20(ER32)	65	20	152

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014007	CAT40 ANGULAR HEAD ER25 L=155 mm PIN= 65 mm SLIM A2							
THS014008	CAT40 ANGULAR HEAD ER25 L=155 mm PIN= 65 mm SLIM A3							
THS014013	SK40 ANGULAR HEAD ER25 L=155 mm PIN= 65 mm SLIM A2							
THS014014	SK40 ANGULAR HEAD ER32 L=155 mm PIN= 65 mm SLIM A3							
THS014091	BT40 ANGULAR HEAD 90 DEGREE SLIM A2 ER25 L=155 mm PIN= 65 mm							
THS014092	BT40 ANGULAR HEAD 90 DEGREE SLIM A3 ER32 L=155 mm PIN= 65 mm							

Updated 202302

CAT50 ANGULAR HEAD ALUMINUM BODY CAT40 L=230 mm PIN=110 mm



Run-out	0.002 mm
Material	Aerospace Aluminum Alloy / Alloy Steel
R.P.M.	Max 4000 RPM
Torque	Max. 50 Nm
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Tool-Locking Plate, Hex Spanner
Output Rotation:	Reverse to Input Rotation

SKU	A	B	C	D	E	F	G	H	I	J	K	L	M
SKP037011	230	45	122	163	145	100	132	28	90	BT-40	80	24	165
SKP037011	230	45	122	163	145	100	132	28	90	BT-40	85	24	165
SKP037011	230	45	122	163	145	100	132	28	90	BT-40	110	24	165
THS006684	230	45	122	163	145	100	132	28	90	BT-40	80	24	165
THS006685	230	45	122	163	145	100	132	28	90	BT-40	85	24	165
THS006683	230	45	122	163	145	100	132	28	90	BT-40	110	24	165
SKP037012	230	45	122	163	145	100	132	28	90	BT-40	80	24	165
SKP037012	230	45	122	163	145	100	132	28	90	BT-40	85	24	165
SKP037012	230	45	122	163	145	100	132	28	90	BT-40	110	24	165

Updated 2021.05.11

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS006683	CAT50 ANGULAR HEAD ALUMINUM BODY CAT40 L=230 mm PIN=110 mm							
THS006684	CAT50 ANGULAR HEAD ALUMINUM BODY CAT40 L=230 mm PIN= 80 mm							
THS006685	CAT50 ANGULAR HEAD ALUMINUM BODY CAT40 L=230 mm PIN= 85 mm							
THS014017	BT50 ANGULAR HEAD 90 DEGREE ALUMINUM BODY BT40 L=230 mm PIN= 80 mm							
THS014020	SK50 ANGULAR HEAD 90 DEGREE ALUMINUM BODY BT40 L=230 mm PIN= 80 mm							

Updated 202302

CAT50 ANGULAR HEAD 90 DEGREE CAPTO C5 COMPATIBLE



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014295	CAT50 ANGULAR HEAD 90 DEGREE CAPTO C5 COMPATIBLE							
THS014296	CAT50 ANGULAR HEAD 90 DEGREE CAPTO C5 COMPATIBLE S							

Updated 202302

CAT40 ANGULAR HEAD ULTRA SLIM ADC6 L=230 mm S= 65 mm



Material:	Alloy Steel
R.P.M.:	Max 4000 RPM
Torque:	Max 6 Nm
Drilling:	Max 6 mm
Tapping:	Max M4
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Hexagonal Socket Wrench

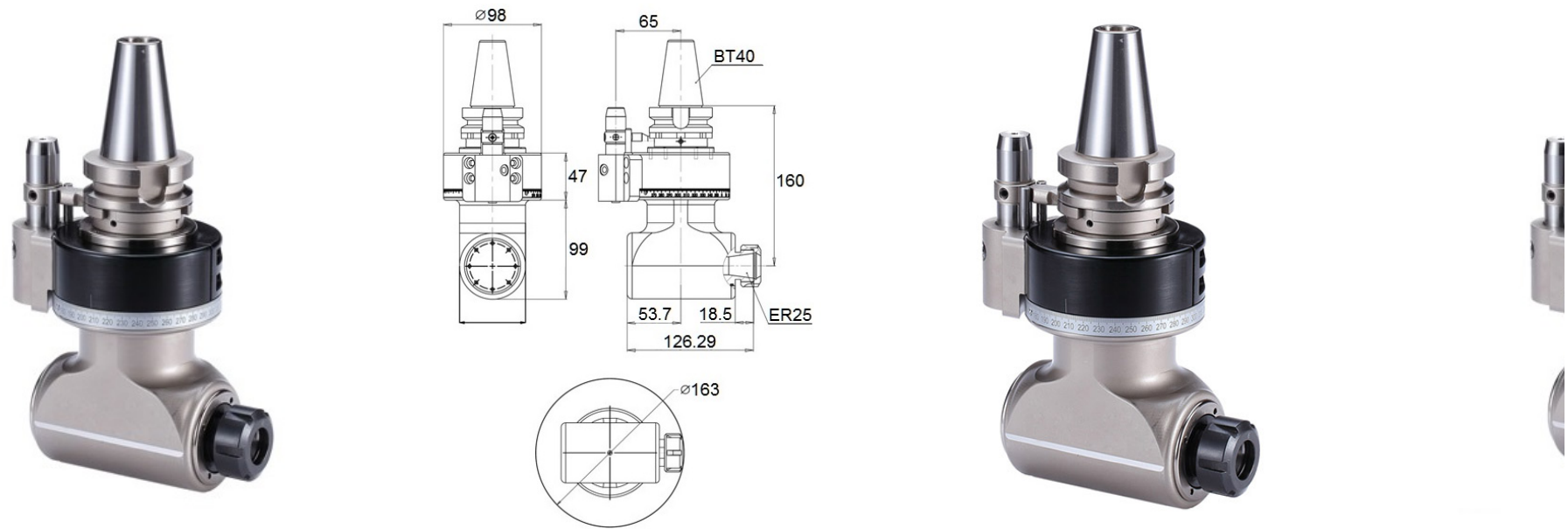
SKU	A	B	C	D	E	F	G	H	J	K	L	M
THS003958	230	16	95	86	31.5	80	44	31	2~6(ADC6)	20	65	82.5
THS003957												
THS003960												

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS003957	CAT40 ANGULAR HEAD ULTRA SLIM ADC6 L=230 mm S= 65 mm							

<u>THS003958</u>	BT40 ANGULAR HEAD ULTRA SLIM ADC6 L=230 mm S= 65 mm						
<u>THS003960</u>	SK40 ANGULAR HEAD ULTRA SLIM ADC6 L=230 mm S= 65 mm						
<u>THS013531</u>	BT50 ANGULAR HEAD ULTRA SLIM ADC6 L=237 mm S= 80 mm						
<u>THS013532</u>	BT50 ANGULAR HEAD ULTRA SLIM ADC6 L=237 mm S=110 mm						
<u>THS013533</u>	CAT50 ANGULAR HEAD ULTRA SLIM ADC6 L=237 mm S= 80 mm						
<u>THS013534</u>	CAT50 ANGULAR HEAD ULTRA SLIM ADC6 L=237 mm S=110 mm						
<u>THS013535</u>	SK50 ANGULAR HEAD ULTRA SLIM ADC6 L=237 mm S= 80 mm						
<u>THS013536</u>	SK50 ANGULAR HEAD ULTRA SLIM ADC6 L=237 mm S=110 mm						
<u>THS013537</u>	BT40 ANGULAR HEAD ULTRA SLIM ADC6 L=278 mm S= 65 mm						
<u>THS013538</u>	BT50 ANGULAR HEAD ULTRA SLIM ADC6 L=284 mm S= 80 mm						
<u>THS013539</u>	CAT40 ANGULAR HEAD ULTRA SLIM ADC6 L=278 mm S= 65 mm						
<u>THS013540</u>	CAT50 ANGULAR HEAD ULTRA SLIM ADC6 L=284 mm S= 80 mm						
<u>THS013541</u>	SK40 ANGULAR HEAD ULTRA SLIM ADC6 L=278 mm S= 65 mm						
<u>THS013542</u>	SK50 ANGULAR HEAD ULTRA SLIM ADC6 L=284 mm S= 80 mm						

Updated 202302

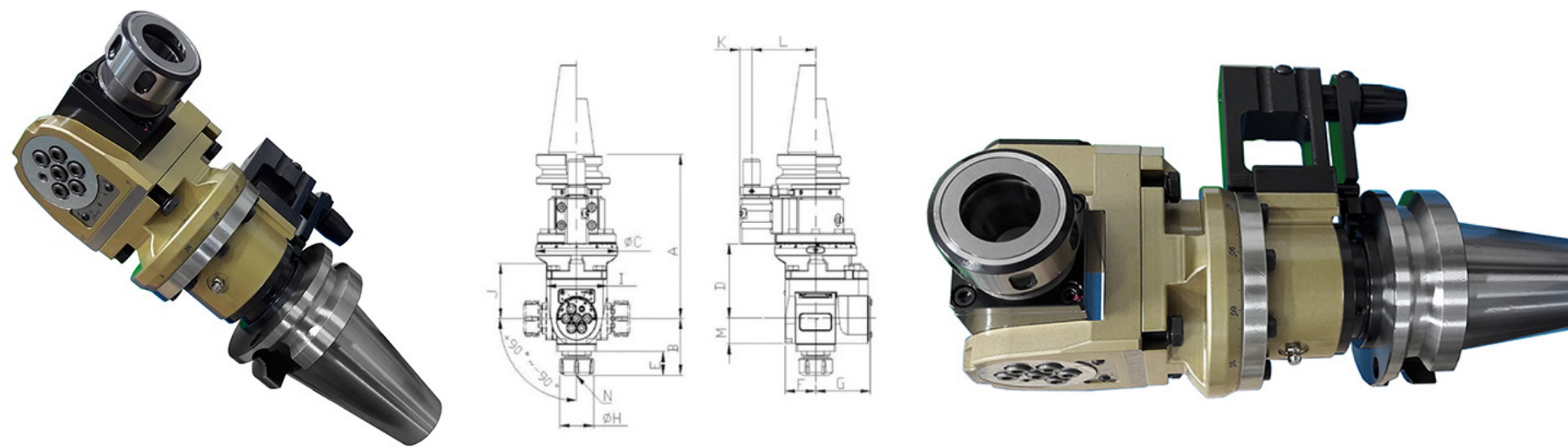
CAT40 ANGULAR HEAD ER25 L=160 mm S= 65 mm



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS003860	CAT40 ANGULAR HEAD ER25 L=160 mm S= 65 mm							
	<u>CAT 40 TAPER</u>							
THS014021	BT40 ANGULAR HEAD 90 DEGREE ER25 L=160 mm PIN= 65 mm							
	<u>BT 40 TAPER</u>							

Updated 202302
Tool holder machine interface: CNC MILLING SPINDLE turret, CAT-40, TAPER, ANY

CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=194 mm PIN= 65 mm



Run-out:	0.002 mm
Material:	Alloy Steel & Ductile Cast Iron
R.P.M.:	Max 4000 RPM
Torque:	Max 20 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Open End Wrench, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

SKU	A	B max	C	D	E max	F	G	H	I	J	K	L	M	N
SKP010447	184.5	89	103	87.6	32	38	70.7	42	76	64.5	17	65 / 80 / 85	29.5	2~16 (ER25)
SKP020025														
SKP011276														
SKP025106	184.5	96.5	103	87.6	40	38	70.7	50	76	64.5	17	65 / 80 / 85	29.5	3~20 (ER32)
SKP011277														
SKP009783	195.5	89	103	87.6	32	38	70.7	42	76	64.5	17	80 / 85 / 110	29.5	2~16 (ER25)
SKP011094														
SKP020026														

SKP011278	195.5	96.5	103	87.6	40	38	70.7	50	76	64.5	17	80 / 85 / 110	29.5	3~20 (ER32)
SKP011280														
SKP011281														

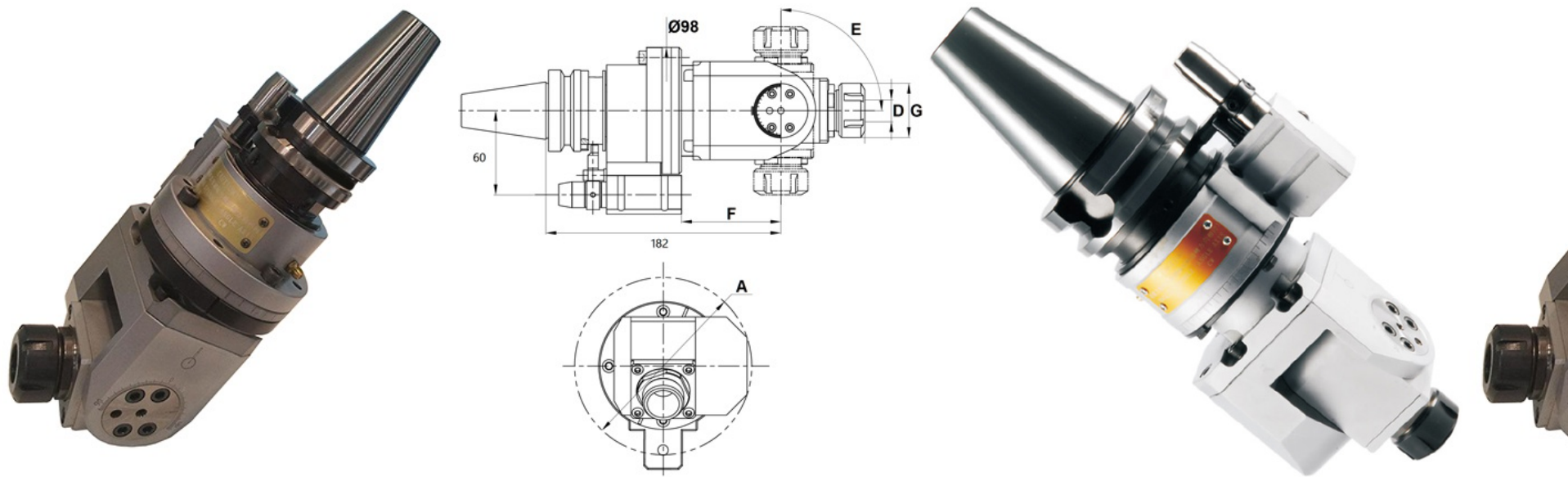
Updated 2021.05.12

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS001151	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=194 mm PIN= 65 mm							
THS001152	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 65 mm							
THS003776	CAT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=195.5 mm PIN=110 mm							
THS003777	CAT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN=110 mm							
THS007353	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 80 mm							
THS007354	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 85 mm							
THS013275	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=184.5 mm PIN= 85 mm							
THS013276	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=184.5 mm PIN= 80 mm							
THS013277	CAT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN= 80 mm							
THS013278	CAT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN= 85 mm							
THS013279	CAT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=195.5 mm PIN= 80 mm							
THS013280	CAT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=195.5 mm PIN= 85 mm							
THS013281	SK40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=184.5 mm PIN= 65 mm							
THS013282	SK40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=184.5 mm PIN= 80 mm							
THS013283	SK40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=184.5 mm PIN= 85 mm							
THS013284	SK40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 65 mm							

<u>THS013285</u>	SK40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 80 mm
<u>THS013286</u>	SK40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 85 mm
<u>THS013287</u>	SK40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=184.5 mm PIN=110 mm
<u>THS013288</u>	SK50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN= 80 mm
<u>THS013289</u>	SK50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN= 85 mm
<u>THS013290</u>	SK50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=195.5 mm PIN=110 mm
<u>THS013291</u>	SK50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=195.5 mm PIN= 80 mm
<u>THS013292</u>	SK50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=195.5 mm PIN= 85 mm
<u>THS013293</u>	BT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.6 mm PIN= 65 mm
<u>THS013294</u>	BT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 80 mm
<u>THS013295</u>	BT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER32 L=184.5 mm PIN= 85 mm
<u>THS013296</u>	BT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN=110 mm
<u>THS013297</u>	BT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN= 80 mm
<u>THS013298</u>	BT50 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER25 L=195.5 mm PIN= 85 mm

Updated 202302

BT40 UNIVERSAL ANGULAR HEAD ER25 L=182 mm PIN= 65 mm



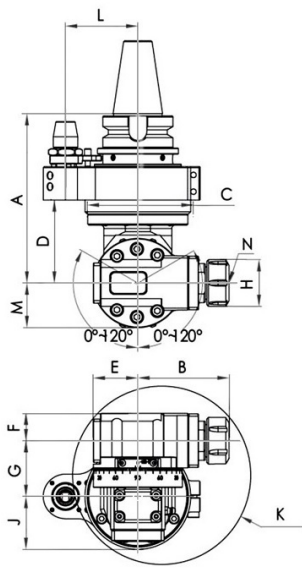
SKU	Ø D	S	L	A	B	C	E	F	Ø G
THS003858	2 ~ 16	60	182	138	65	29	± 90°	80	42
THS003856		65							
SKP010717	2 ~ 16	80	200	138	65	29	± 90°	80	42
SKP011734		85							
SKP011738		110							
SKP010720-60	2 ~ 16	60	176	138	65	29	± 90°	80	42
SKP010720-65		65							
SKP010719-80	2 ~ 16	80	178	138	65	29	± 90°	80	42
SKP010719-85		85							
SKP010719-110		110							

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS003856	BT40 UNIVERSAL ANGULAR HEAD ER25 L=182 mm PIN= 65 mm							
THS003858	BT40 ANGULAR HEAD UNIVERSAL ER25 L=182 mm PIN= 60 mm							
THS014184	BT50 ANGULAR HEAD UNIVERSAL ER25 L=200 mm PIN=110 mm							
	BT 50 TAPER							

<u>THS014185</u>	BT50 ANGULAR HEAD UNIVERSAL ER25 L=200 mm PIN= 80 mm							
	<u>BT 50 TAPER</u>							
<u>THS014186</u>	BT50 ANGULAR HEAD UNIVERSAL ER25 L=200 mm PIN= 85 mm							
	<u>BT 50 TAPER</u>							
<u>THS014187</u>	SK40 ANGULAR HEAD UNIVERSAL ER25 L=176 mm PIN= 65 mm							
<u>THS014188</u>	SK50 ANGULAR HEAD UNIVERSAL ER25 L=178 mm PIN= 85 mm							

Updated 202302

CAT40 ANGULAR HEAD UNIVERSAL ADJUSTABLE ER25 L=158 mm PIN=65



Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 6000 RPM
Torque:	Max. 25 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK(ISO), CAT
Standard Accessory:	Open End Wrench, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

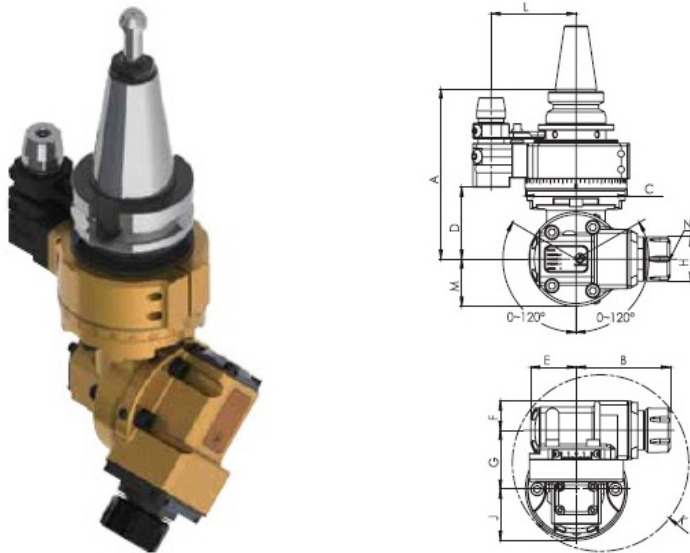
SKU	A	B max	C	D	E	F	G	H	J	K	L	M	N
SKP064984	152	82	95	74.5	40	24.5	50	42	40.5	160	65	40	2~16 (ER25)
THS005688													
SKP011274	159	82	95	74.5	40	24.5	50	42	40.5	160	80/100	40	1~16 (ER25)
SKP011275													
SKP011279													

Updated 2021.05.12

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS005688	CAT40 ANGULAR HEAD UNIVERSAL ADJUSTABLE ER25 L=158 mm PIN=65							
THS013632	CAT50 ANGULAR HEAD UNIVERSAL ER25 L=110 mm							
THS013916	CAT50 ANGULAR HEAD UNIVERSAL ER25 L= 80 mm							
THS014175	BT50 ANGULAR HEAD UNIVERSAL SLIM B2 ER25 PIN= 80 mm							
THS014182	SK40 ANGULAR HEAD UNIVERSAL SLIM B2 ER25 L=157 mm PIN= 65 mm							
THS014183	SK50 ANGULAR HEAD UNIVERSAL SLIM B2 ER25 L=159 mm PIN= 80 mm							
THS017177	CAT40 ANGULAR HEAD UNIVERSAL ADJUSTABLE ER25 L=158 mm PIN=65							

Updated 202302

CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER20 L= 55 mm



Run-out:	0.002 mm
Material:	Alloy Steel
R.P.M.:	Max. 4000 RPM
Torque:	Max. 9 Nm
Gear Ratio:	1 : 1
Spindle Type:	BT, SK, CAT
Standard Accessory:	Open End Wrench, ER Wrench, ER Nut
Output Rotation:	Reverse to Input Rotation

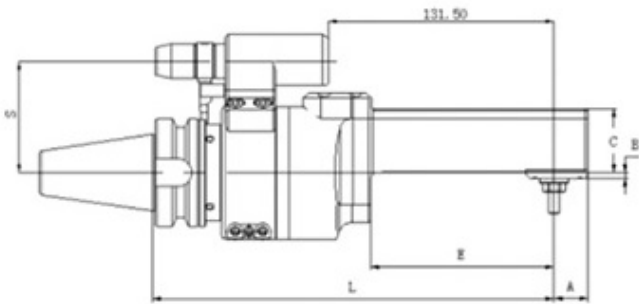
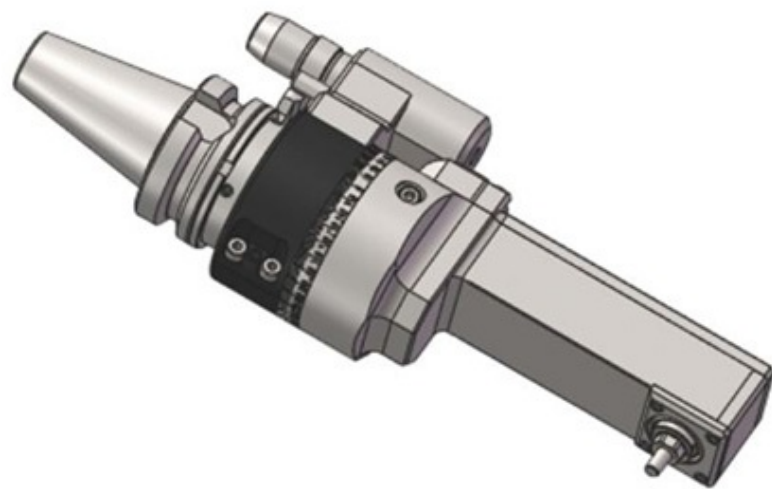
SKU	A	B max	C	D	E	F	G	H	J	K	L	M	N	N.W. (kg)
SKP064278	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	55	36	1~13(ER20)	4
SKP064279	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	55	36	1~13(ER20)	4.5
SKP064282	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	55	36	1~13(ER20)	4
SKP064283	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	55	36	1~13(ER20)	4.5
SKP064280	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	55	36	1~13(ER20)	4
THS003806	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	55	36	1~13(ER20)	4.5
SKP019995	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	65	36	1~13(ER20)	4
SKP019996	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	65	36	1~13(ER20)	4.5
SKP020033	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	65	36	1~13(ER20)	4

SKP020034	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	65	36	1~13(ER20)	4.5
SKP019997	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	65	36	1~13(ER20)	4
THS003807	130	72~79	73	61.5	34.5	22.5	45	36	36.5	140	65	36	1~13(ER20)	4.5

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS003806	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER20 L= 55 mm							
THS003807	CAT40 ANGULAR HEAD UNIVERSALLY ADJUSTABLE ER20 L= 65 mm							
THS014171	BT30 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 PIN= 55mm							
THS014172	BT30 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 PIN= 65mm							
THS014173	BT40 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 PIN= 55mm							
THS014174	BT40 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 PIN= 65mm							
THS014176	CAT30 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 L=130 mm PIN= 55 mm							
THS014177	CAT30 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 L=130 mm PIN= 65 mm							
THS014178	SK30 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 L=139 mm PIN= 55 mm							
THS014179	SK30 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 L=139 mm PIN= 65 mm							
THS014180	SK40 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 L=139 mm PIN= 55 mm							
THS014181	SK40 ANGULAR HEAD UNIVERSAL SLIM B1 ER20 L=139 mm PIN= 65 mm							

Updated 202302

BT40 ANGUALR HEAD ER11 SLIM LONG L=234

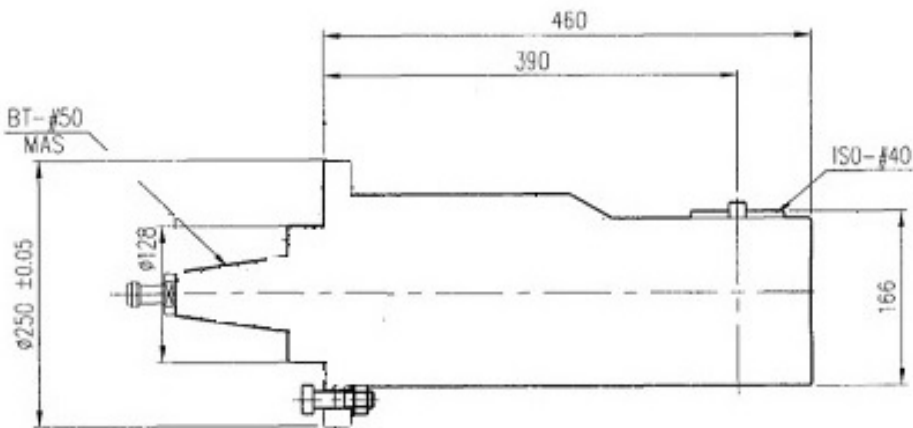


SKU	Capacity	S	L	A	B	C	E	F	H	Weight
THS014934	ER11	65	234	20	3	37.5	107	115	39	16

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014934	BT40 ANGUALR HEAD ER11 SLIM LONG L=234							

Updated 202302

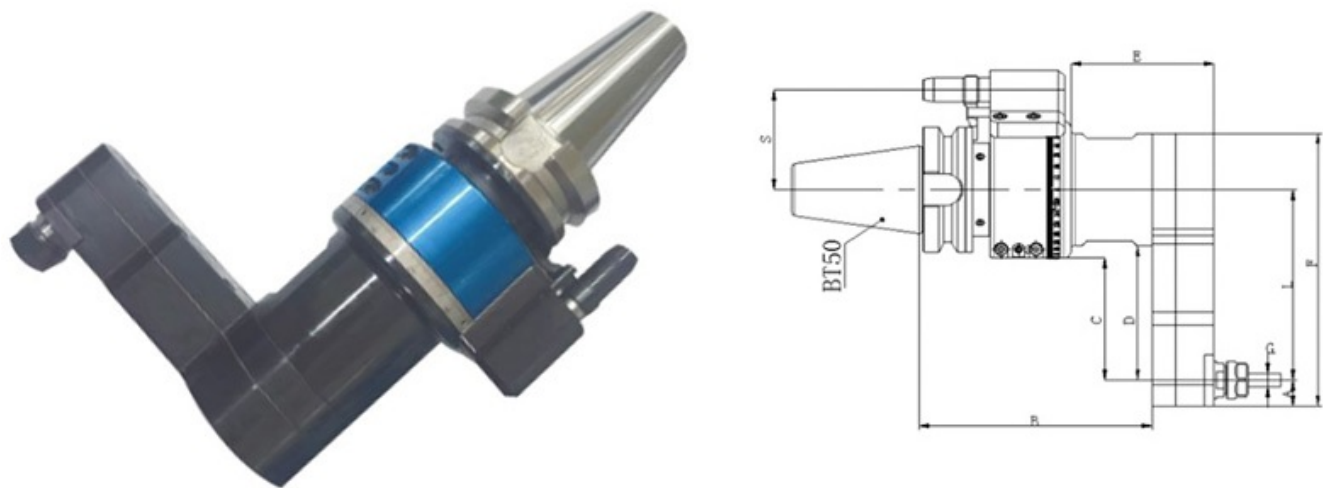
BT50 ANGULAR HEAD INTERFACE ISO#40 L=390 mm



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS000920	BT50 ANGULAR HEAD INTERFACE ISO#40 L=390 mm							
THS000921	BT50 ANGULAR HEAD INTERFACE ISO#40 L=480 mm							

Updated 202302

BT50 ANGULAR HEAD ER16 EXTENDED OFFSET L=(6)" SPEEDER 1:14



SKU	Taper	Capacity	S	L	A	B	C	D	E	F	Weight
THS014933	BT50	ER16	80	6"	21	187	97.5	107.5	115	218.5	16
THS016695	CAT50	ER16	80	6"	21	187	97.5	107.5	115	218.5	16

Updated 2022-05-19

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS014933	BT50 ANGULAR HEAD ER16 EXTENDED OFFSET L=(6)" SPEEDER 1:14							
	BT 50 TAPER	OTHER	ER16	(6)"	CW-CW 1:1	STRIGHT	EXTERNAL COOLANT	OFFSET
THS016695	CAT50 ANGULAR HEAD ER16 EXTENDED OFFSET L=(6)"							
	CAT 50 TAPER	OTHER	ER16	(6)"	STATIC STATIC	STRIGHT	EXTERNAL COOLANT	OFFSET

Updated 202302



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