

Driven Tool Holders
For
DUPLOMATIC Turrets

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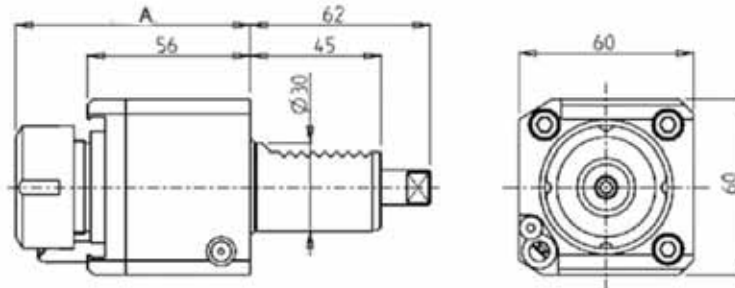
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VDI30

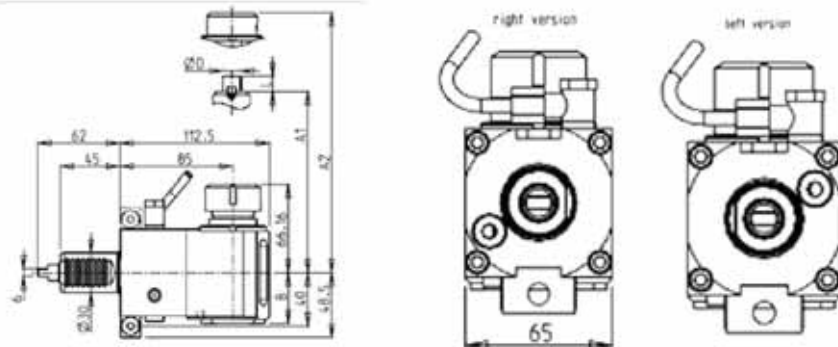
DRIVEN

AXIAL DRIVEN TOOL VDI30



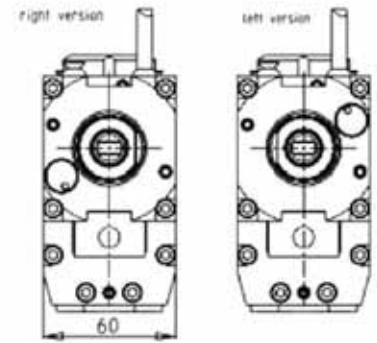
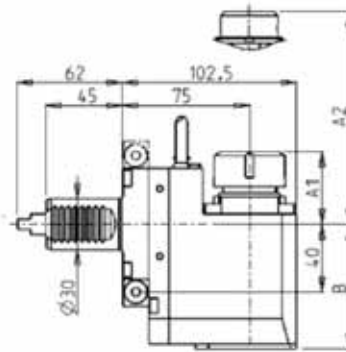
PartNumber	Description	Spindle	I	RPM	Ext Cool	A
DUP0070120	Axial ER20 Standard VDI30	ER20	1:1	6000	X	79.66
DUP0070125	Axial ER25 Standard VDI30	ER25	1:1	6000	X	80.66

RADIAL DRIVEN TOOL VDI30



PartNumber	Description	VDI	Spindle	I	RPM	Cool Thru	Ext Cool	D	L	A1	A2	B
DUP0080125	Radial ER Standard VDI30	RH	ER25	1:1	6000		X					38
DUP0080225	Radial ER Standard VDI30, Cool Thru*	RH	ER25	1:1	6000	X	X					48
DUP0080416	Radial VDI30 Mill Head D=16mm L=17mm	RH	16X17	1:1	6000		X	16	17	45		38
DUP0080422	Radial VDI30 Mill Head D=22mm, L=19mm	RH	22X19	1:1	6000		X	22	19	47		38
DUP0080316	Radial VDI30 Weldon16	RH	Weldon16	1:1	6000		X				54.5	38
DUP0081125	Radial ER25 VDI30	LH	ER25	1:1	6000		X					38
DUP0081225	Radial ER25 VDI30, Cool Thru*	LH	ER25	1:1	6000	X	X					48
DUP0081416	Radial VDI30 Mill Head D=16mm L=17mm	LH	16X17	1:1	6000		X	16	17	45		38
DUP0081422	Radial VDI30 Mill Head D=22mm L=19mm	LH	22X19	1:1	6000		X	22	19	47		38
DUP0081316	Radial VDI30 Weldon16	LH	Weldon16	1:1	6000		X				54.5	38

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

VDI30**DRIVEN****RADIAL REAR-SET DRIVEN VDI30 H=75**

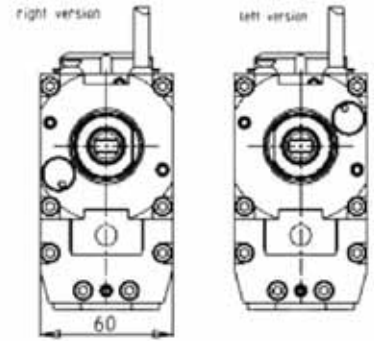
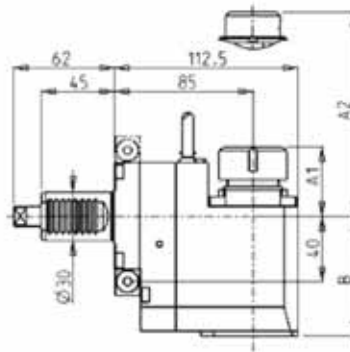
PartNumber	Description	VDI	Spindle	I	RPM	Cool Thru	Ext Cool	A1	A2	B
DUP0090120	Radial Rear-Set ER20, VDI30 H=75	RH	ER20	1:1	6000		X	41.16		73.5
DUP0090320	Radial Rear-Set ERA20, VDI30 H=75	RH	ERA20	1:1	6000		X	24.5		73.5
DUP0090420	Radial Rear-Set ERA20, VDI30 H=75, Cool Thru*	RH	ERA20	1:1	6000	X	X	24.5		83.5
DUP0090125	Radial Rear-Set ER25, VDI30 H=75	RH	ER25	1:1	6000		X	42.16		73.5
DUP0090225	Radial Rear-Set ER25, VDI30 H=75, Cool Thru*	RH	ER25	1:1	6000	X	X	42.16		83.5
DUP0090325	Radial Rear-Set ERA25, VDI30 H=75,	RH	ERA25	1:1	6000		X	28.5		73.5
DUP0090425	Radial Rear-Set ERA25, VDI30 H=75, Cool Thru*	RH	ERA25	1:1	6000	X	X	28.5		83.5
DUP0090516	Radial Rear-Set Weldon16, VDI30 H=75mm	RH	Weldon16	1:1	6000		X		27.5	73.5
DUP0091120	Radial Rear-Set ER20, VDI30 H=75	LH	ER20	1:1	6000		X	41.16		73.5
DUP0091320	Radial Rear-Set ERA20, VDI30 H=75	LH	ERA20	1:1	6000		X	24.5		73.5
DUP0091420	Radial Rear-Set ERA20, VDI30 H=75, Cool Thru*	LH	ERA20	1:1	6000	X	X	24.5		83.5
DUP0091125	Radial Rear-Set ER25, VDI30 H=75	LH	ER25	1:1	6000		X	42.16		73.5
DUP0091225	Radial Rear-Set ER25, VDI30 H=75, Cool Thru*	LH	ER25	1:1	6000	X	X	42.16		73.5
DUP0091325	Radial Rear-Set ERA25, VDI30 H=75	LH	ERA25	1:1	6000		X	28.5		73.5
DUP0091425	Radial Rear-Set ERA25, VDI30 H=75, Cool Thru*	LH	ERA25	1:1	6000	X	X	28.5		83.5
DUP0091516	Radial Rear-Set Weldon16, VDI30 H=75mm, Cool Thru*	LH	Weldon16	1:1	6000		X		27.5	83.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

VDI30

DRIVEN

RADIAL REAR-SET DRIVEN VDI30 H=85



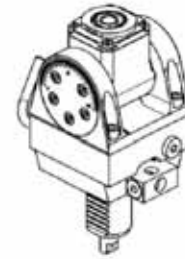
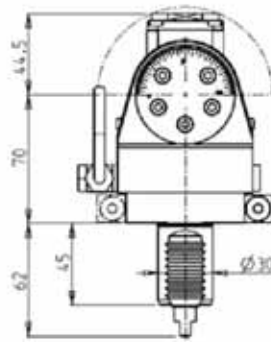
PartNumber	Description	VDI	Spindle	I	RPM	Cool Thru	Ext Cool	A1	A2	B
DUP0100120	Radial Rear-Set ER20, VDI30 H=85mm	RH	ER20	1:1	6000		X	41.16		73.5
DUP0100320	Radial Rear-Set ERA20, VDI30 H=85mm	RH	ERA20	1:1	6000		X	24.5		73.5
DUP0100420	Radial Rear-Set ERA20, VDI30 H=85mm, Cool Thru*	RH	ERA20	1:1	6000	X	X	24.5		83.5
DUP0100125	Radial Rear-Set ER25, VDI30 H=85mm	RH	ER25	1:1	6000		X	42.16		73.5
DUP0100225	Radial Rear-Set ER25, VDI30 H=85mm, Cool Thru*	RH	ER25	1:1	6000	X	X	42.16		83.5
DUP0100325	Radial Rear-Set ERA25, VDI30 H=85mm	RH	ERA25	1:1	6000		X	28.5		73.5
DUP0100425	Radial Rear-Set ERA25, VDI30 H=85mm, Cool Thru*	RH	ERA25	1:1	6000	X	X	28.5		83.5
DUP0100516	Radial Rear-Set Weldon16, VDI30 H=85mm	RH	Weldon16	1:1	6000		X		27.5	73.5
DUP0101120	Radial Rear-Set ER20, VDI30 H=85mm	LH	ER20	1:1	6000		X	41.16		73.5
DUP0101320	Radial Rear-Set ERA20, VDI30 H=85mm	LH	ERA20	1:1	6000		X	24.5		73.5
DUP0101420	Radial Rear-Set ERA20, VDI30 H=85mm, Cool Thru*	LH	ERA20	1:1	6000	X	X	24.5		83.5
DUP0101125	Radial Rear-Set ER25, VDI30 H=85mm	LH	ER25	1:1	6000		X	42.16		73.5
DUP0101225	Radial Rear-Set ER25, VDI30 H=85mm, Cool Thru*	LH	ER25	1:1	6000	X	X	42.16		83.5
DUP0101325	Radial Rear-Set ERA25, VDI30 H=85mm	LH	ERA25	1:1	6000		X	28.5		73.5
DUP0101425	Radial Rear-Set ERA25, VDI30 H=85mm, Cool Thru*	LH	ERA25	1:1	6000	X	X	28.5		83.5
DUP0101516	Radial Rear-Set Weldon16, VDI30, H=85mm	LH	Weldon16	1:1	6000		X		27.5	73.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

VDI30

DRIVEN

0-180° ADJUSTABLE ANGLE DRIVEN TOOL VDI30

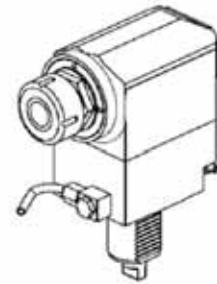
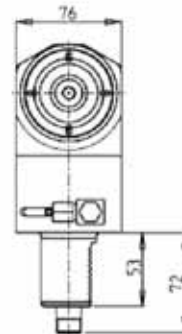
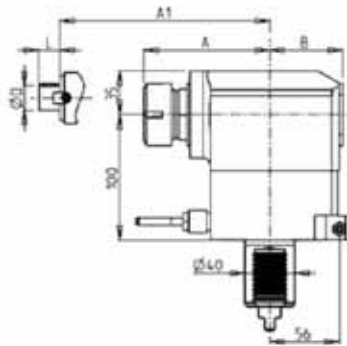


PartNumber	Description	Spindle	I	RPM	Ext Cool
DUP0230116	Adj. Angle 0-180° VDI30, RH	ERA16	1:1	6000	X
DUP0231116	Adj. Angle 0-180° VDI30, LH	ERA16	1:1	6000	X

VDI40

DRIVEN

RADIAL DRIVEN TOOL VDI40 H=100

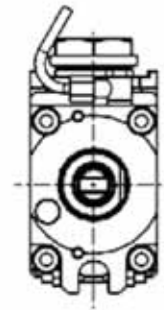
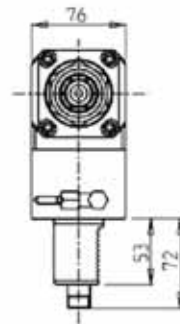
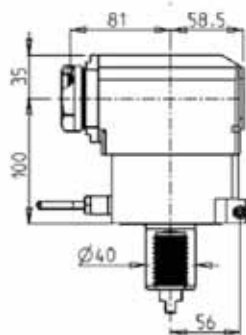


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
DUP0040132	Radial ER32, VDI40, H100	ER32	1:1	4000		X	101.1		58.5		
DUP0040232	Radial ER32, VDI40, H100 Cool Thru*	ER32	1:1	4000	X	X	101.1		82		
DUP0042219	Radial VDI40, H100, Mill Head D=22mm L=19mm	22x19	1:1	4000		X		78.5	58.5	22	19
DUP0042721	Radial VDI40, H100, Mill Head D=27mm L=21mm	27x21	1:1	4000		X		78.5	58.5	27	21

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RADIAL MTSK DRIVEN TOOL VDI40

See Accessories of MTSK Clamping Charts



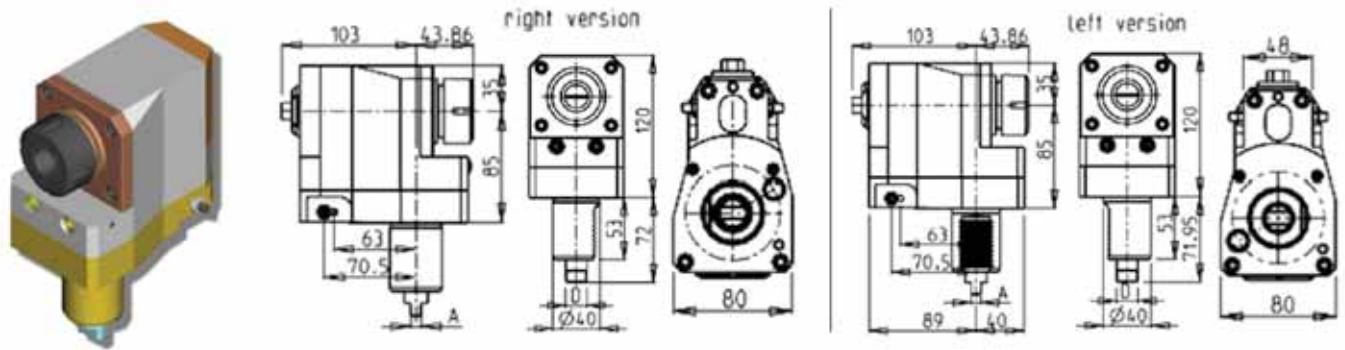
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
DUP0130140	Radial MTSK-40 Driven Tool VDI40	MTSK-40	1:1	6000		X
DUP0130240	Radial MTSK-40 Driven Tool VDI40 Cool Thru*	MTSK-40	1:1	6000	X	X

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VDI40

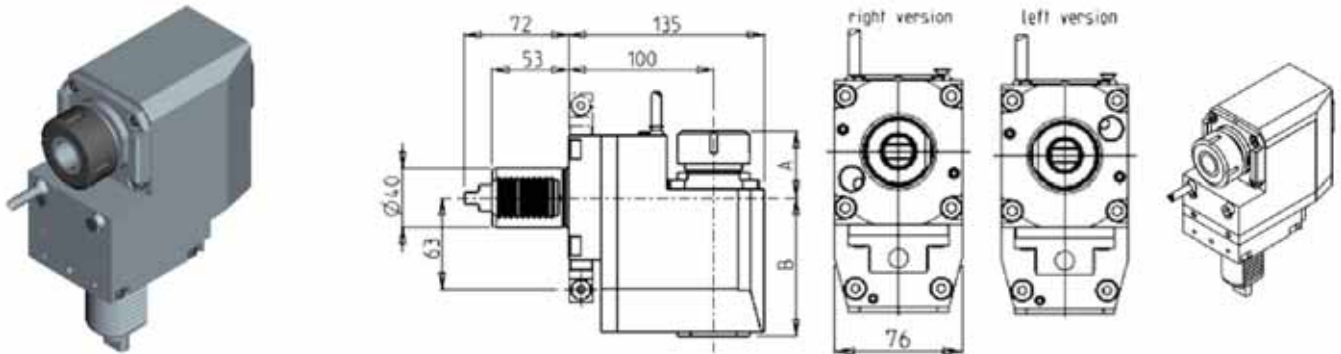
DRIVEN

RADIAL REAR-SET DRIVEN TOOL VDI40



PartNumber	Description	Spindle	I	RPM	Ext Cool	Turret	A	D
141DUP_R32_40A00	Radial Rear-Set ER32 VDI40, RH	ER32	1:1	4000	X	Duplomatic	8	18
141DUP_R32_40A01	Radial Rear-Set ER32 VDI40, RH	ER32	1:1	4000	X	Duplomatic Comev	6	12
141DUP_R32_40A20	Radial Rear-Set ER32 VDI40, LH	ER32	1:1	4000	X	Duplomatic	8	18
141DUP_R32_40A21	Radial Rear-Set ER32 VDI40, LH	ER32	1:1	4000	X	Duplomatic Comev	6	12

RADIAL REAR-SET DRIVEN TOOL VDI40 DIN 5480 H=100mm



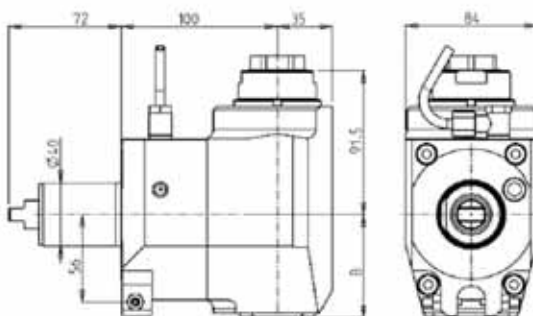
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	B
DUP0220125	Radial Rear-Set ER25, VDI30 H=100mm RH	ER25	1:1	4000		X	42.66	95
DUP0220225	Radial Rear-Set ER25, VDI30 H=100mm RH Cool Thru*	ER25	1:1	4000	X	X	42.66	108.5
DUP0220132	Radial Rear-Set ER32, VDI30 H=100mm RH	ER32	1:1	4000		X	45.66	95
DUP0220232	Radial Rear-Set ER32, VDI30 H=100mm RH Cool Thru*	ER32	1:1	4000	X	X	45.66	108.5
DUP0221125	Radial Rear-Set ER25, VDI30 H=100mm LH	ER25	1:1	4000		X	42.66	95
DUP0221225	Radial Rear-Set ER25, VDI30 H=100mm LH Cool Thru*	ER25	1:1	4000	X	X	42.66	108.5
DUP0221132	Radial Rear-Set ER32, VDI30 H=100mm LH	ER25	1:1	4000		X	45.66	95
DUP0221232	Radial Rear-Set ER32, VDI30 H=100mm LH Cool Thru*	ER25	1:1	4000	X	X	45.66	108.5

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VDI40

DRIVEN

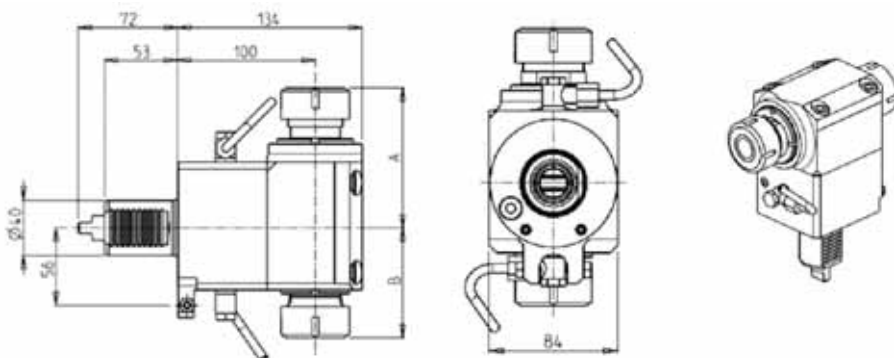
RADIAL GEARED-UP 1:2 DRIVEN TOOL VDI40



PartNumber	Description	Spindle	I	Cool Thru	Ext Cool	B
DUP0110332	Radial Geared-Up 1:2 Driven, ERA32	ERA32	1:2		X	66
DUP0110432	Radial Geared-Up 1:2 Driven, ERA32, Cool Thru*	ERA32	1:2	X	X	76

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RADIAL OPPOSITE FACE TWIN DRIVEN TOOL VDI40

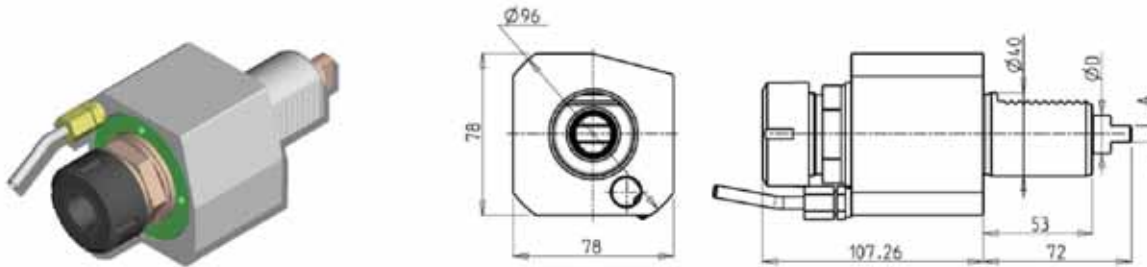


PartNumber	Description	Spindle	I	RPM	Ext Cool	A	B
DUP0240225	Radial Opposite Face Twin Driven ER25+ER25 VDI40	ER25+ER25	1:1	4000	X	95.4	75.5
DUP0240232	Radial Opposite Face Twin Driven ER32+ER32 VDI40	ER32+ER32	1:1	4000	X	100.6	79.5

VDI40

DRIVEN

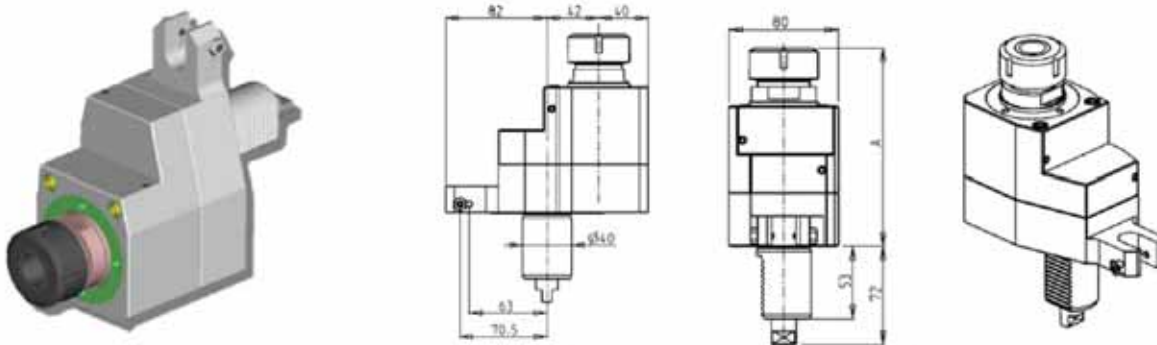
AXIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	Turret	A	D
142DUP_A32_40A00	Axial ER32 VDI40 Standard	ER32	1:1	4000		X	Duplomatic	8	18
142DUP_A32_40A10	Axial ER32 VDI40 Cool Thru*	ER32	1:1	4000	X	X	Duplomatic	8	18
142DUP_A32_40A01	Axial ER32 VDI40 Standard	ER32	1:1	4000		X	Duplomatic Comev	6	12

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AXIAL DRIVEN TOOL RE-DIRECTED BY 42mm VDI40



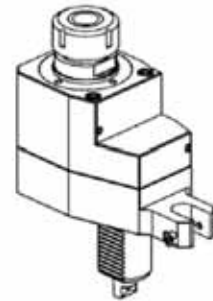
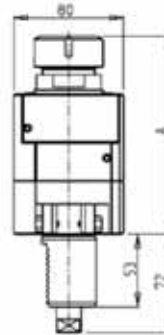
PartNumber	Description	VDI	Spindle	I	RPM	Cool Thru	Ext Cool	A
145DUP_A32_40A00	Axial Re-directed by 42mm ER32 VDI40	RH	ER32	1:1	4000		X	144.46
145DUP_A32_40A10	Axial Re-directed by 42mm ER32 Cool Thru*	RH	ER32	1:1	4000	X		164.96

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They require 5 Micron Filtration and **CANNOT** be run dry.

VDI40

DRIVEN

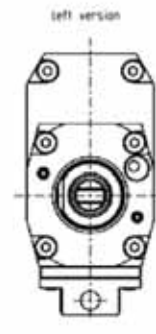
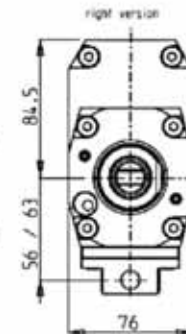
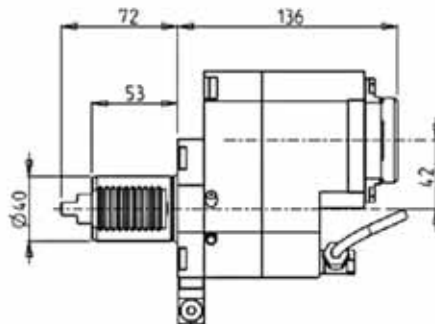
AXIAL GEARED-DOWN I=2:1 DRIVEN TOOL RE-DIRECTED BY 42mm VDI40



PartNumber	Description	VDI	Spindle	I	RPM	Cool Thru	Ext Cool	A
145DUP_A32_40A20	Axial Geared Down ER32 Redirected by 42mm	RH	ER32	2:1	2000		X	144.46
145DUP_A32_40A30	Axial Geared Down ER32 Redirected by 42mm Cool Thru*	RH	ER32	2:1	2000	X		164.96

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AXIAL GEARED-UP I=1:2 DRIVEN TOOL RE-DIRECTED BY 42mm VDI40



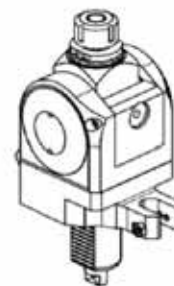
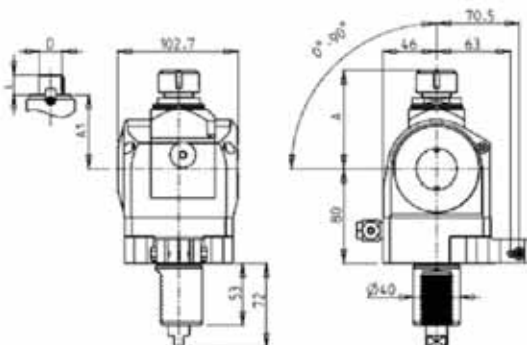
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
DUP0156132	Axial Geared-Up ERA32 Redirected by 42mm VDI40, RH	ERA32	1:2	8000		X
DUP0156232	Axial Geared-Up ERA32 Redirected by 42mm VDI40, RH Cool Thru*	ERA32	1:2	8000	X	X
DUP0157132	Axial Geared-Up ERA32 Redirected by 42mm VDI40, LH	ERA32	1:2	8000		X
DUP0157232	Axial Geared-Up ERA32 Redirected by 42mm VDI40, LH Cool Thru*	ERA32	1:2	8000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

VDI40

DRIVEN

0-90 ADJUSTABLE ANGLE DRIVEN TOOL VDI40



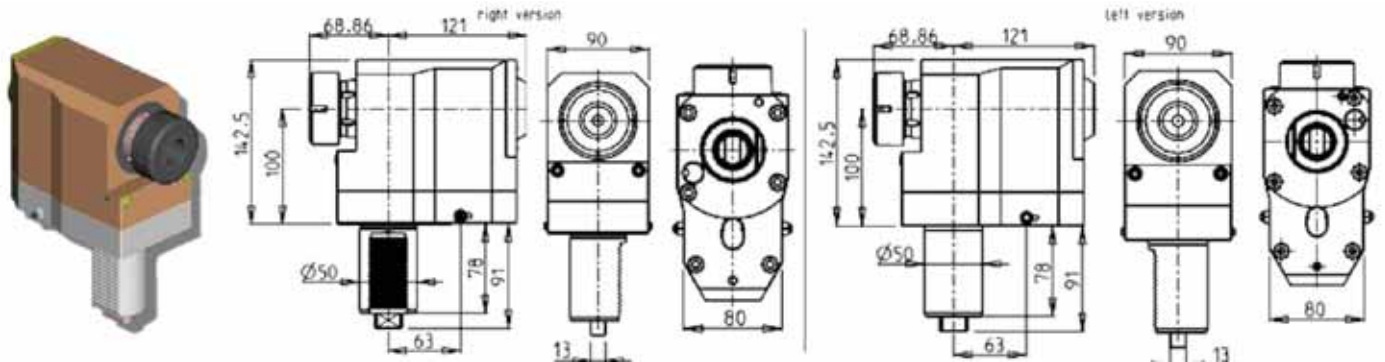
PartNumber	Description	VDI	Spindle	I	RPM	Ext Cool	A	A1	D	L
0210020_DUP	Adj. Angle (0-90) ER20 VDI40	RH	ER20	1:1	4000	X	84.16			
0210025_DUP	Adj. Angle (0-90) ER25 VDI40	RH	ER25	1:1	4000	X	85.66			
0211905_DUP	Adj. Angle (0-90) VDI40 Mill Head D=3/4", L=3/4"	RH	3/4"x3/4"	1:1	4000	X		65	3/4"	3/4"
0211617_DUP	Adj. Angle (0-90) VDI40 Mill Head D=16mm, L=17mm	RH	16x17	1:1	4000	X		65	16	17
0212219_DUP	Adj. Angle (0-90) VDI40 Mill Head D=22mm, L=19mm	RH	22x19	1:1	4000	X		66	22	19

Note : Wrenches are provided with the purchase of Specialty Toolholders

VDI50

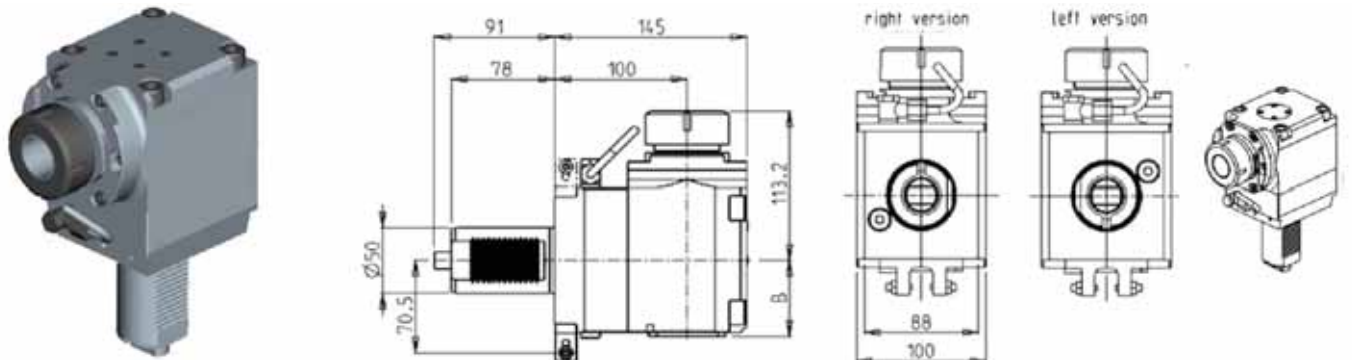
DRIVEN

RADIAL DRIVEN TOOL VDI50



PartNumber	Description	VDI	Spindle	I	RPM	Ext Cool
151DUP_R40_50A00	Radial ER40 VDI50, RH	RH	ER40	1:1	4000	X
151DUP_R40_50A20	Radial ER40 VDI50, LH	LH	ER40	1:1	4000	X

RADIAL DRIVEN TOOL VDI50 - Style 2



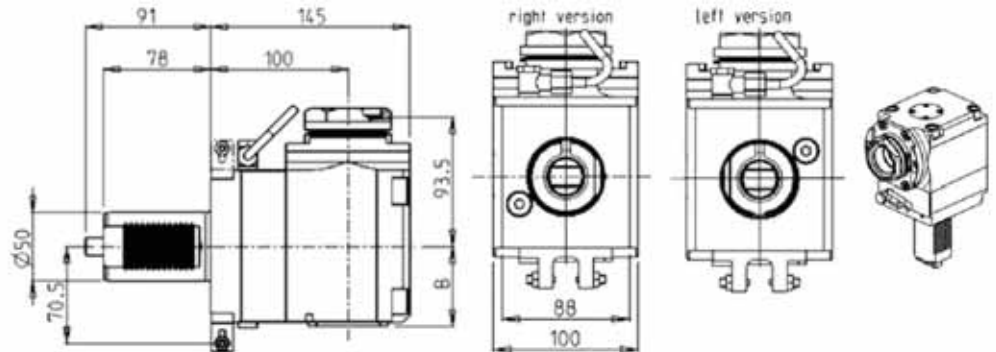
PartNumber	Description	I	RPM	Cool Thru	Ext Cool	B
DUP0200140	Radial ER40 VDI50 RH	1:1	4000		X	58
DUP0200240	Radial ER40 VDI50 RH Cool Thru*	1:1	4000	X	X	66.5
DUP0201140	Radial ER40 VDI50 LH	1:1	4000		X	58
DUP0201240	Radial ER40 VDI50 LH Cool Thru*	1:1	4000	X	X	66.5

VDI50

DRIVEN

RADIAL MTSK DRIVEN TOOL VDI50

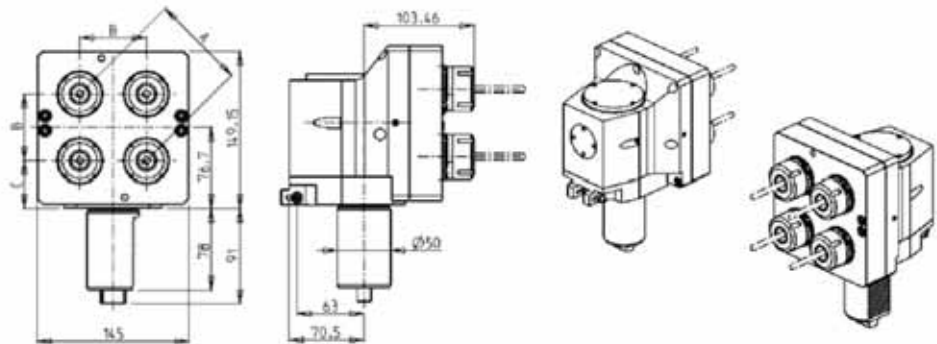
See Accessories of MTSK Clamping Charts



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
DUP0200150	Radial MTSK-50 VDI50 RH	MTSK-50	1:1	4000		X	58
DUP0200250	Radial MTSK-50 VDI50 RH Cool Thru*	MTSK-50	1:1	4000	X	X	66.5
DUP0201150	Radial MTSK-50 VDI50 LH	MTSK-50	1:1	4000		X	58
DUP0201250	Radial MTSK-50 VDI50 LH Cool Thru*	MTSK-50	1:1	4000	X	X	66.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL 4 HEAD DRIVEN TOOL VDI50

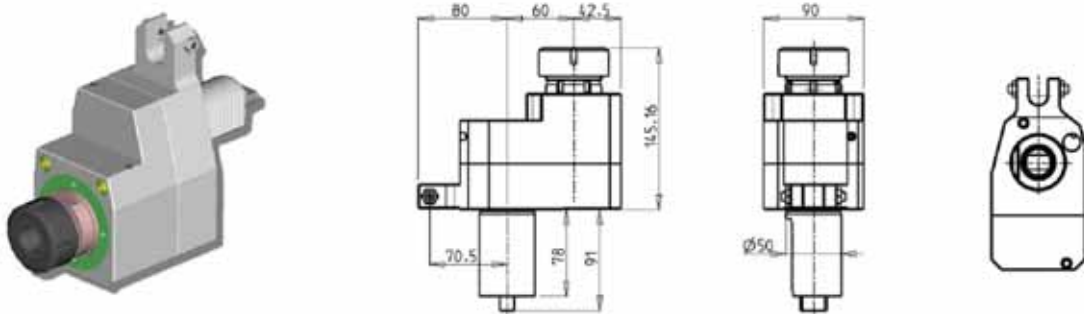


PartNumber	Description	VDI	# of Tools	Spindle	I	RPM	Ext Cool	A	B	C
0240025X4_90	Radial ER25 4-Head VDI50	RH	4	ER25	2:1	2000	X	90	63.64	44.88
0240025X4_105	Radial ER25 4-Head VDI50	RH	4	ER25	2:1	2000	X	105	74.246	39.577

VDI50

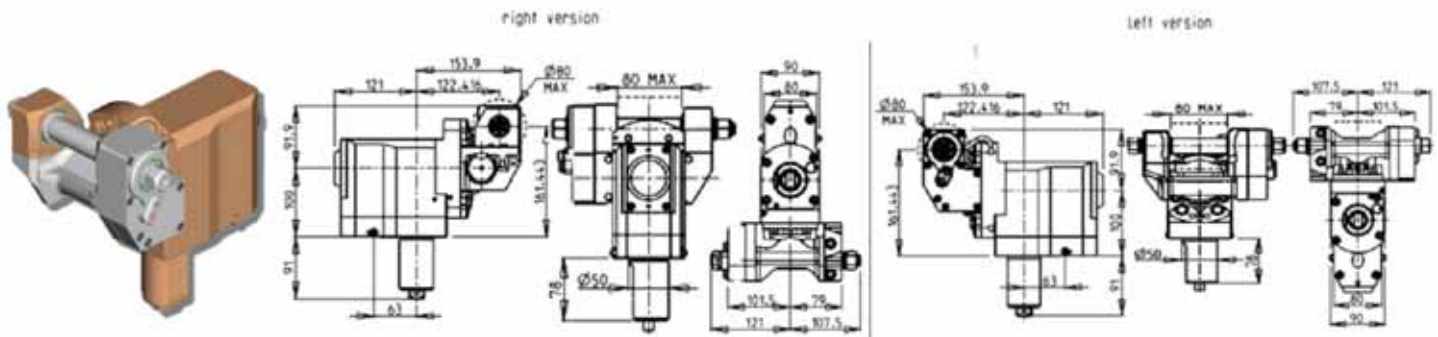
DRIVEN

AXIAL RE-DIRECTED DRIVEN TOOL VDI50



PartNumber	Description	VDI	Spindle	I	RPM	Ext Cool
155DUP_A40_50A00	Axial Re-directed by 60mm ER40 VDI50	RH	ER40	1:1	4000	X

DRIVEN GEAR HOBBER VDI50



PartNumber	Description	VDI	I	RPM	Ext Cool	D Inch	D mm
156DUP_PCR_50A00	Gear Hobber VDI50 I=1:1 - RH	RH	1:1	4000	X	3/4"-1"-1 1/4"	16-22-27-32
156DUP_PCR_50A01	Gear Hobber VDI50 I=2:1 - RH	RH	2:1	2000	X	3/4"-1"-1 1/4"	16-22-27-32
156DUP_PCR_50A10	Gear Hobber VDI50 I=1:1 - LH	LH	1:1	4000	X	3/4"-1"-1 1/4"	16-22-27-32
156DUP_PCR_50A11	Gear Hobber VDI50 I=2:1 - LH	LH	2:1	2000	X	3/4"-1"-1 1/4"	16-22-27-32

Note : Wrenches are provided with the purchase of Specialty Toolholders

ACCESSORIES

ACCESSORIES

MTSK-40 QUICK CHANGE TOOL HOLDERS CLAMPS

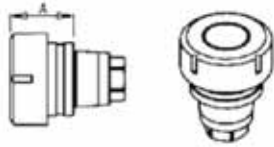


PartNumber	Description	Spindle	Dimension	A	D	L
MTSK40A02	MTSK-40 ER32	ER32		35.6		
MTSK40A03	MTSK-40 ER25	ER25		32.6		
MTSK40B02	MTSK-40 ERA25	ERA25		16		
MTSK40B03	MTSK-40 ERA20	ERA20		14		
MTSK40C02	MTSK-40 16x17	16x17	17	17	17	17
MTSK40C03	MTSK-40 3/4"x3/4"	3/4"x3/4"	Inch	15.5	3/4"	3/4"
MTSK40C04	MTSK-40 22x19	22x19	mm	17	22	19
MTSK40C05	MTSK-40 27x21	27x21	21	21	21	21
MTSK40D01	MTSK-40 Weldon 6	Weldon 6		8		
MTSK40D02	MTSK-40 Weldon 8	Weldon 8		8		
MTSK40D03	MTSK-40 Weldon 10	Weldon 10		9		
MTSK40D04	MTSK-40 Weldon 12	Weldon 12		14		
MTSK40D06	MTSK-40 Weldon 16	Weldon 16		39.5		
MTSK40D07	MTSK-40 Weldon 20	Weldon 20		39.5		
MTSK40D11	MTSK-40 Weldon 1/4"	Weldon 1/4"		8		
MTSK40D12	MTSK-40 Weldon 5/16"	Weldon 5/16"		8		
MTSK40D13	MTSK-40 Weldon 3/8"	Weldon 3/8"		9		
MTSK40D14	MTSK-40 Weldon 1/2"	Weldon 1/2"		14		

ACCESSORIES

ACCESSORIES

MTSK-50 QUICK CHANGE TOOL HOLDERS CLAMPS



Cod. MT	Mandrin Spindle Spindel	A
MTSK50A01	ER40	46.6
MTSK50A02	ER32	35.6
MTSK50A03	ER25	32.6



Cod. MT	Mandrin Spindle Spindel	A
MTSK50B01	ERA32	19
MTSK50B02	ERA25	14
MTSK50B03	ERA20	9

PartNumber	Description	Spindle	Dimension	A	D	L
MTSK50A01	MTSK-50 ER40	ER40		46.6		
MTSK50A02	MTSK-50 ER32	ER32		35.6		
MTSK50A03	MTSK-50 ER25	ER25		32.6		
MTSK50B01	ERA32	ERA32		19		
MTSK50B02	MTSK-50 ERA25	ERA25		14		
MTSK50B03	MTSK-50 ERA20	ERA20		9		
MTSK50C02	MTSK-50 16x17	16x17	mm	15	16	17
MTSK50C03	MTSK-50 3/4"x3/4"	3/4"x3/4"	Inch	15.5	3/4"	3/4"
MTSK50C04	MTSK-50 22x19	22x19	mm	17	22	19
MTSK50C05	MTSK-50 1"x3/4"	1"x3/4"	Inch	19	1"	3/4"
MTSK50C06	MTSK-50 27x21	27x21	mm	19	27	21
MTSK50D01	MTSK-50 Weldon 6	Weldon 6		8		
MTSK50D02	MTSK-50 Weldon 8	Weldon 8		8		
MTSK50D03	MTSK-50 Weldon 10	Weldon 10		8		
MTSK50D04	MTSK-50 Weldon 12	Weldon 12		9		
MTSK50D05	MTSK-50 Weldon 16	Weldon 16		12		
MTSK50D11	MTSK-50 Weldon 1/4"	Weldon 1/4"		8		
MTSK50D12	MTSK-50 Weldon 5/16"	Weldon 5/16"		8		
MTSK50D13	MTSK-50 Weldon 3/8"	Weldon 3/8"		8		
MTSK50D14	MTSK-50 Weldon 1/2"	Weldon 1/2"		9		
MTSK50D15	MTSK-50 Weldon 5/8"	Weldon 5/8"		12		
MTSK50E01	MTSK-50 POWRGRIP PG25	POWRGRIP PG25		40		

ER COLLETS

ER COLLET NUMBER	DESCRIPTION	MD LIST PRICE
ER16-SET	ER16 Collet Set (11 Collets)	\$ 150.00
ERX16-SET	ER16 Sealed Collet Set (9 Collets)	\$ 220.00
ER20 SET	ER20 Collet Set (15 Collets)	\$ 220.00
ERX20-SET	ER20 Sealed Collet Set (13 Collets)	\$ 315.00
ER25-SET	ER25 Collet Set (19 Collets)	\$ 275.00
ERX25-SET	ER25 Sealed Collet Set (17 Collets)	\$ 430.00
ER32-SET	ER32 Collet Set (21 Collets)	\$ 315.00
ERX32-SET	ER32 Sealed Collet Set (21 Collets)	\$ 588.00
ER40-SET	ER40 Collet Set (29 Collets)	\$ 575.00
ERX40-SET	ER40 Sealed Collet Set (27 Collets)	\$ 800.00

LIVE TOOL WRENCHES

ER COLLET NUMBER	DESCRIPTION	MD LIST PRICE
From List Above	ER Collet Wrench (Identify Holder)	\$ 22.00
From List Above	Spindle Locking Wrench (Identify Holder)	\$ 22.00

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0210025_DUP	Adj. Angle (0-90) ER25 VDI40	10	DUP0081416	Radial VDI30 Mill Head D=16mm L=17mm	1
0211617_DUP	Adj. Angle (0-90) VDI40 Mill Head D=16mm, L=17mm	10	DUP0081422	Radial VDI30 Mill Head D=22mm L=19mm	1
0211905_DUP	Adj. Angle (0-90) VDI40 Mill Head D=3/4", L=3/4"	10	DUP0090120	Radial Rear-Set ER20, VDI30 H=75	2
0212219_DUP	Adj. Angle (0-90) VDI40 Mill Head D=22mm, L=19mm	10	DUP0090125	Radial Rear-Set ER25, VDI30 H=75	2
0240025X4_105	Radial ER25 4-Head VDI50	12	DUP0090225	Radial Rear-Set ER25, VDI30 H=75, Cool Thru*	2
0240025X4_90	Radial ER25 4-Head VDI50	12	DUP0090320	Radial Rear-Set ERA20, VDI30 H=75	2
1			DUP0090325	Radial Rear-Set ERA25, VDI30 H=75,	2
141DUP_R32_40A00	Radial Rear-Set ER32 VDI40, RH	6	DUP0090420	Radial Rear-Set ERA20, VDI30 H=75, Cool Thru*	2
141DUP_R32_40A01	Radial Rear-Set ER32 VDI40, RH	6	DUP0090425	Radial Rear-Set ERA25, VDI30 H=75, Cool Thru*	2
141DUP_R32_40A20	Radial Rear-Set ER32 VDI40, LH	6	DUP0090516	Radial Rear-Set Weldon16, VDI30 H=75mm	2
141DUP_R32_40A21	Radial Rear-Set ER32 VDI40, LH	6	DUP0091120	Radial Rear-Set ER20, VDI30 H=75	2
142DUP_A32_40A00	Axial ER32 VDI40 Standard	8	DUP0091125	Radial Rear-Set ER25, VDI30 H=75	2
142DUP_A32_40A01	Axial ER32 VDI40 Standard	8	DUP0091225	Radial Rear-Set ER25, VDI30 H=75, Cool Thru*	2
142DUP_A32_40A10	Axial ER32 VDI40 Cool Thru*	8	DUP0091320	Radial Rear-Set ERA20, VDI30 H=75	2
145DUP_A32_40A00	Axial Re-directed by 42mm ER32 VDI40	8	DUP0091325	Radial Rear-Set ERA25, VDI30 H=75	2
145DUP_A32_40A10	Axial Re-directed by 42mm ER32 Cool Thru*	8	DUP0091420	Radial Rear-Set ERA20, VDI30 H=75, Cool Thru*	2
145DUP_A32_40A20	Axial Geared Down ER32 Redirected by 42mm	9	DUP0091425	Radial Rear-Set ERA25, VDI30 H=75, Cool Thru*	2
145DUP_A32_40A30	Axial Geared Down ER32 Redirected by 42mm Cool Thru*	9	DUP0091516	Radial Rear-Set Weldon16, VDI30 H=75mm, Cool Thru*	2
151DUP_R40_50A00	Radial ER40 VDI50, RH	11	DUP0100120	Radial Rear-Set ER20, VDI30 H=85mm	3
151DUP_R40_50A20	Radial ER40 VDI50, LH	11	DUP0100125	Radial Rear-Set ER25, VDI30 H=85mm	3
155DUP_A40_50A00	Axial Re-directed by 60mm ER40 VDI50	14	DUP0100225	Radial Rear-Set ER25, VDI30 H=85mm, Cool Thru*	3
156DUP_PCR_50A00	Gear Hobber VDI50 I=1:1 - RH	14	DUP0100320	Radial Rear-Set ERA20, VDI30 H=85mm	3
156DUP_PCR_50A01	Gear Hobber VDI50 I=2:1 - RH	14	DUP0100325	Radial Rear-Set ERA25, VDI30 H=85mm	3
156DUP_PCR_50A10	Gear Hobber VDI50 I=1:1 - LH	14	DUP0100420	Radial Rear-Set ERA20, VDI30 H=85mm, Cool Thru*	3
156DUP_PCR_50A11	Gear Hobber VDI50 I=2:1 - LH	14	DUP0100425	Radial Rear-Set ERA25, VDI30 H=85mm, Cool Thru*	3
D			DUP0100516	Radial Rear-Set Weldon16, VDI30 H=85mm	3
DUP0010120	Adj. Angle (0-90) VDI50 ER20	13	DUP0101120	Radial Rear-Set ER20, VDI30 H=85mm	3
DUP0010125	Adj. Angle (0-90) VDI50 ER25	13	DUP0101125	Radial Rear-Set ER25, VDI30 H=85mm	3
DUP0011617	Adj. Angle (0-90) VDI50 Mill Head D=16mm, L=17mm	13	DUP0101225	Radial Rear-Set ER25, VDI30 H=85mm, Cool Thru*	3
DUP0011905	Adj. Angle (0-90) VDI50 Mill Head D=3/4", L=3/4"	13	DUP0101320	Radial Rear-Set ERA20, VDI30 H=85mm	3
DUP0012219	Adj. Angle (0-90) VDI50 Mill Head D=22mm, L=19mm	13	DUP0101325	Radial Rear-Set ERA25, VDI30 H=85mm	3
DUP0020140	Axial ERA40 VDI50	13	DUP0101420	Radial Rear-Set ERA20, VDI30 H=85mm, Cool Thru*	3
DUP0020240	Axial ERA40 VDI50 Cool Thru *	13	DUP0101425	Radial Rear-Set ERA25, VDI30	3
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DUP0040232	Radial ER32, VDI40, H100 Cool Thru*	5			
DUP0042219	Radial VDI40, H100, Mill Head D=22mm L=19mm	5			
DUP0042721	Radial VDI40, H100, Mill Head D=27mm L=21mm	5			
DUP0070120	Axial ER20 Standard VDI30	1			
DUP0070125	Axial ER25 Standard VDI30	1			
DUP0080125	Radial ER Standard VDI30	1			
DUP0080225	Radial ER Standard VDI30, Cool Thru*	1			
DUP0080316	Radial VDI30 Weldon16	1			
DUP0080416	Radial VDI30 Mill Head D=16mm L=17mm	1			
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DUP0110432	Radial Geared-Up 1:2 Driven, ERA32, Cool Thru*	7	MTSK40D11	MTSK-40 Weldon 1/4"	15
DUP0130140	Radial MTSK-40 Driven Tool VDI40	5	MTSK40D12	MTSK-40 Weldon 5/16"	15
DUP0130240	Radial MTSK-40 Driven Tool VDI40 Cool Thru*	5	MTSK40D13	MTSK-40 Weldon 3/8"	15
DUP0156132	Axial Geared-Up ERA32 Redirected by 42mm VDI40, RH	9	MTSK40D14	MTSK-40 Weldon 1/2"	15
DUP0156232	Axial Geared-Up ERA32 Redirected by 42mm VDI40, RH Cool Thru*	9	MTSK50A01	MTSK-50 ER40	16
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DUP0200140	Radial ER40 VDI50 RH	11	MTSK50B01	ERA32	16
DUP0200150	Radial MTSK-50 VDI50 RH	12	MTSK50B02	MTSK-50 ERA25	16
DUP0200240	Radial ER40 VDI50 RH Cool Thru*	11	MTSK50B03	MTSK-50 ERA20	16
DUP0200250	Radial MTSK-50 VDI50 RH Cool Thru*	12	MTSK50C02	MTSK-50 16x17	16
DUP0201140	Radial ER40 VDI50 LH	11	MTSK50C03	MTSK-50 3/4"x3/4"	16
DUP0201150	Radial MTSK-50 VDI50 LH	12	MTSK50C04	MTSK-50 22x19	16
DUP0201240	Radial ER40 VDI50 LH Cool Thru*	11	MTSK50C05	MTSK-50 1"x3/4"	16
DUP0201250	Radial MTSK-50 VDI50 LH Cool Thru*	12	MTSK50C06	MTSK-50 27x21	16
DUP0220125	Radial Rear-Set ER25, VDI30 H=100mm RH	6	MTSK50D01	MTSK-50 Weldon 6	16
DUP0220132	Radial Rear-Set ER32, VDI30 H=100mm RH	6	MTSK50D02	MTSK-50 Weldon 8	16
DUP0220225	Radial Rear-Set ER25, VDI30 H=100mm RH Cool Thru*	6	MTSK50D03	MTSK-50 Weldon 10	16
DUP0220232	Radial Rear-Set ER32, VDI30 H=100mm RH Cool Thru*	6	MTSK50D04	MTSK-50 Weldon 12	16
DUP0221125	Radial Rear-Set ER25, VDI30 H=100mm LH	6	MTSK50D05	MTSK-50 Weldon 16	16
DUP0221132	Radial Rear-Set ER32, VDI30 H=100mm LH	6	MTSK50D11	MTSK-50 Weldon 1/4"	16
DUP0221225	Radial Rear-Set ER25, VDI30 H=100mm LH Cool Thru*	6	MTSK50D12	MTSK-50 Weldon 5/16"	16
DUP0221232	Radial Rear-Set ER32, VDI30 H=100mm LH Cool Thru*	6	MTSK50D13	MTSK-50 Weldon 3/8"	16
DUP0230116	Adj. Angle 0-180° VDI30, RH	4	MTSK50D14	MTSK-50 Weldon 1/2"	16
DUP0231116	Adj. Angle 0-180° VDI30, LH	4	MTSK50D15	MTSK-50 Weldon 5/8"	16
DUP0240225	Radial Opposite Face Twin Driven ER25+ER25 VDI40	7	MTSK50E01	MTSK-50 POWRGRIP PG25	16
DUP0240232	Radial Opposite Face Twin Driven ER32+ER32 VDI40	7			

M

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MTSK40A03	MTSK-40 ER25	15
MTSK40B02	MTSK-40 ERA25	15
MTSK40B03	MTSK-40 ERA20	15
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MTSK40C03	MTSK-40 3/4"x3/4"	15
MTSK40C04	MTSK-40 22x19	15
MTSK40C05	MTSK-40 27x21	15
MTSK40D01	MTSK-40 Weldon 6	15
MTSK40D02	MTSK-40 Weldon 8	15
MTSK40D03	MTSK-40 Weldon 10	15
MTSK40D04	MTSK-40 Weldon 12	15