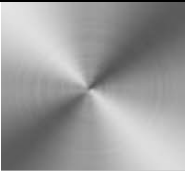
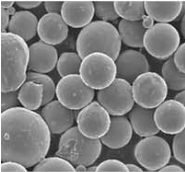
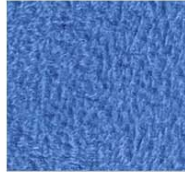
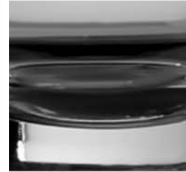
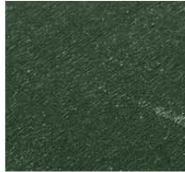




Technical Data	CNC Watch & Jewelry DE Micro Premium	CNC Watch & Jewelry DE Micro
		
Number of Axis	5 (simultaneous)	5 (simultaneous)
Compact Chasis	Polymere Concrete Aluminum / Steel	aluminium / steel
Traverse paths (X / Y / Z) (3-axis) [mm]	110 x (215 incl. Tool changer) x 110 x 110	110 x (215 incl. Tool changer) x 110 x 110
Rotating swivel unit A/B	A=endless; B=130°(-30°+100°)	A=endless; B=130°(-30°+100°)
Workpiece dimensions [mm]	Ø100 x L 100	Ø100 x L 100
Controls	Logosol 5-Achs mBus	Logosol 5-Achs mBus
Shank diameter cutters and grinders	Ø6 mm	Ø6 mm
	optional Ø4 mm, Ø3 mm, Ø1/8"	optional Ø4 mm, Ø3 mm, Ø1/8"
Number of tool places	15	15
Tool change	automatic	automatic
Tool change times	30 s with 3x times tool measuring; 13 s without measuring	30 s with 3x times tool measuring; 13 s without measuring
P max spindle [W]	1 kW	1 kW
Max totation speed [rot/min]	60.000 rot/min	60.000 rot/min
Spindle System	direct clamping system	direct clamping system
Spindle cooling	air cooled	air cooled
Axis drives	AC-Servo 200 W with absolute encoder	AC-Servo 200 W with absolute encoder
Drive elements	16 mm ballscrew backlash free	16 mm ballscrew backlash free
Workpiece clamping system	Roemheld - zero point clamping system	Roemheld - zero point clamping system
Dry machining	YES	YES
Wet machining	YES	YES
Coolant reservoir	5 l	5 l
Temperature compensation	integrated	integrated
Monitor	integrated XL Touchscreen 24"	integrated XL Touchscreen 24"
Measuring system control tool length	Indirect with absolute encoders	Indirect with absolute encoders

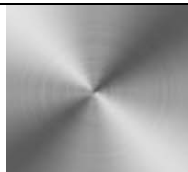
Repeatability [mm]	0,01	0,01
Absolute accuracy [mm]	0,02	0,02
Size	"Desktop"	"Desktop"
width x depth x height [mm]	730 x 815 x 1045	730 x 815 x 1045
Current	110V / 240V 16 A	110V / 240V 16 A
Compressed air	6 - 8 Bar / 60-80 l/min	6 - 8 Bar / 60-80 l/min
Lighting	3 LED status colors	3 LED status colors
Software CNC	Win10 / CNC Workbench / Remote NC	Win10 / CNC Workbench / Remote NC
Software CAM	madCAM 5Xtra	madCAM 5Xtra
Weight	310 kg	280 kg
Machinable Materials		
Precious metals: gold, silver	YES	YES
Titan	YES	YES
Stainless steel: cobalt chrome and similar	YES	YES
glass and ceramics	YES	YES
sintered metal	YES	YES
wood	YES	YES
Wax / Plastics / PMMA / PEEK / Composites	YES	YES

					
CoCr	Messing / brass	Ag, Silber / Sil...	Gold	Al, Aluminum	Ti, Titan / Tita...
					
Gesinterte Me...	Graphit / grap...	Holz / wood	Perlen / pearls	Granit / granite	Onyx
					
Achat	Jade	Peek	PMMA	div. plastics	Glas / glass
					
div. ceramics	Schaumstoff /f...	PEEK	PMMA	Zirkoniumoxyd...	Wachs / wax
					
Komposit / co...	SINT	Glaskeramik / ...	Wachs / wax		



Technische Daten	Watch & Jewellery DE Micro Premium	Watch & Jewellery DE Micro
		
Anzahl Achsen	5 (simultan)	5 (simultan)
Kompakter Basisaufbau	Mineralguss (Polymerbeton) & Aluminium-Chassis	Aluminium-Chassis
Verfahrwege (X / Y / Z A / B) (3-achsig) [mm]	110 x (215 inkl. Werkzeugwechsler) x 110 x 110	110 x (215 inkl. Werkzeugwechsler) x 110 x 110
Dreh-Schwenk-Einheit A/B	A=endlos; B=130°(-30°+100°)	A=endlos; B=130°(-30°+100°)
Werkstückabmessungen [mm]	Ø100 x L 100	Ø100 x L 100
Steuerung	Logosol 5-Achs mBus	Logosol 5-Achs mBus
Schaftdurchmesser Fräser und Schleifer	Ø6 mm	Ø6 mm
	optional Ø4 mm, Ø3 mm, Ø1/8"	optional Ø4 mm, Ø3 mm, Ø1/8"
Anzahl Werkzeugplätze	15	15
Werkzeugwechsel	automatisch	automatisch
Werkzeugwechselzeiten	30 s mit 3x Werkzeugmessen; 13 s ohne messen	30 s mit 3x Werkzeugmessen; 13 s ohne messen
P max Spindel	1 kW	1 kW
Drehzahl Max.	60.000 U/min	60.000 U/min
Spindel System	Direktspannsystem	Direktspannsystem
Spindel Kühlung	Luftgekühlt	Luftgekühlt
Achsantriebe	AC-Servo 200 W mit Absolutwertgebern	AC-Servo 200 W mit Absolutwertgebern
Antriebselemente X	16 mm Kugelumlaufspinde spielfrei	16 mm Kugelumlaufspinde spielfrei
Werkstückspannsystem	Roemheld - Nullpunkspannsystem	Roemheld - Nullpunkspannsystem
Trockenbearbeitung	JA	JA
Nassbearbeitung	JA	JA
Kühlmittelbehälter	5 l	5 l
Temperaturkompensation	integriert	integriert
Monitor	integrierter XL Touchscreen 24"	integrierter XL Touchscreen 24"
Messsystem Kontrolle Werkzeuglänge	Indirekt mit Absolutwertgebern	Indirekt mit Absolutwertgebern
Wiederhohlgenauigkeit [mm]	0,01	0,01

Absolutgenauigkeit [mm]	0,02	0,02
Größe Typ	"Desktop"	"Desktop"
Breite x Tiefe x Höhe [mm]	730 x 815 x 1045	730 x 815 x 1045
Strom	110V / 240V 16 A	110V / 240V 16 A
Druckluft	6 - 8 Bar / 60-80 l/min	6 - 8 Bar / 60-80 l/min
Beleuchtung	3 LED status colors	3 LED status colors
Software CNC	WinRemote und ProNC	WinRemote und ProNC
Software CAM	madCAM 5Xtra	madCAM 5Xtra
Gewicht	310 kg	280 kg
Bearbeitbare Materialien		
Edelmetalle: Gold, Silber	JA	JA
Titan	JA	JA
Edelstahl: Kobalt Chrom	JA	JA
Glas und Keramik	JA	JA
Sintermetall	JA	JA
Holz	JA	JA
Wachs / Kunststoffe / PMMA / PEEK / Komposite	JA	JA



CoCr



Messing / brass



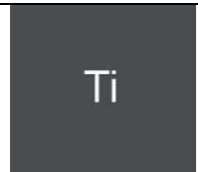
Ag, Silber / Sil...



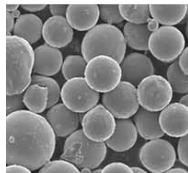
Gold



Al, Aluminum



Ti, Titan / Tita...



Gesinterte Me...



Graphit / grap...



Holz / wood



Perlen / pearls



Granit / granite



Onyx



Achat



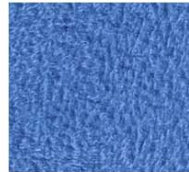
Jade



Peek



PMMA



div. plastics



Glas / glass



div. ceramics



Schaumstoff /f...



PEEK



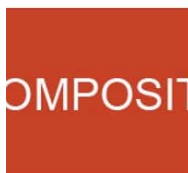
PMMA



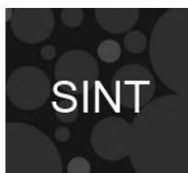
Zirkoniumoxyd...



Wachs / wax



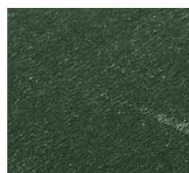
Komposit / co...



SINT



Glaskeramik / ...

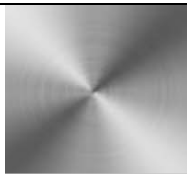


Wachs / wax



Données techniques	CNC Watch & Jewelry DE Micro Premium	CNC Watch & Jewelry DE Micro
		
Nombre d'axes	5 (simultané)	5 (simultané)
Chasis compacte	Béton polymère Aluminium / Acier	aluminium / acier
Chemins de traverse (X / Y / Z) (3-axes) [mm]	110 x (215 incl. changeur d'outils) x 110 x 110	110 x (215 incl. changeur d'outils) x 110 x 110
Unité pivotante rotative A/B	A=endless; B=130°(-30°+100°)	A=endless; B=130°(-30°+100°)
Workpiece dimensions [mm]	Ø100 x L 100	Ø100 x L 100
Contrôles	Logosol 5-Achs mBus	Logosol 5-Achs mBus
diamètre de tige fraises	Ø6 mm optional Ø4 mm, Ø3 mm, Ø1/8"	Ø6 mm optional Ø4 mm, Ø3 mm, Ø1/8"
Nombre d'emplacements d'outils	15	15
Changement d'outil	Automatique	Automatique
Temps de changement d'outil	30 s avec 3x fois la mesure de l'outil; 13 s sans mesure	30 s avec 3x fois la mesure de l'outil; 13 s sans mesure
P max broche [W]	1 kW	1 kW
Vitesse maximale de rotation [rot/min]	60.000 rot/min	60.000 rot/min
Système de broche	Système de serrage direct	Système de serrage direct
Refroidissement de la broche	refroidi à l'air	refroidi à l'air
Entraînements Axis	AC-Servo 200 W with absolute encoder	AC-Servo 200 W with absolute encoder
Éléments d'entraînement	Jeu de vis à billes de 16 mm sans jeu	Jeu de vis à billes de 16 mm sans jeu
Système de serrage de pièces	Roemheld - système de serrage du point zéro	Roemheld - système de serrage du point zéro
Usinage à sec	OUI	OUI
Usinage humide	OUI	OUI
Réservoir de liquide de refroidissement	5 l	5 l
Compensation de température	intégré	intégré
Monitor	écran tactile XL intégré 24"	écran tactile XL intégré 24"

système de mesure longueur de l'outil	Indirect avec codeurs absolus	Indirect avec codeurs absolus
Répétabilité [mm]	0,01	0,01
Précision absolue [mm]	0,02	0,02
Taille	"Desktop"	"Desktop"
largeur x profondeur x hauteur [mm]	730 x 815 x 1045	730 x 815 x 1045
Current	110V / 240V 16 A	110V / 240V 16 A
Air comprimé	6 - 8 Bar / 60-80 l/min	6 - 8 Bar / 60-80 l/min
Éclairage	3 LED status colors	3 LED status colors
Software CNC	WinRemote und ProNC	WinRemote und ProNC
Software CAM	madCAM 5Xtraj	madCAM 5Xtra
Poids	310 kg	280 kg
Matériaux usinables		
Métaux précieux : or, argent	OUI	OUI
Titan	OUI	OUI
Aciers inoxydable : cobalt chrome et similaires	OUI	OUI
verre and ceramics	OUI	OUI
métal sinter	OUI	OUI
bois	OUI	OUI
Cire / Matière plastique / PMMA / PEEK / Composites	OUI	OUI



CoCr



Messing / brass



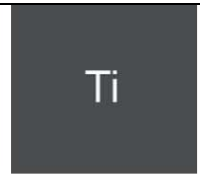
Ag, Silber / Sil...



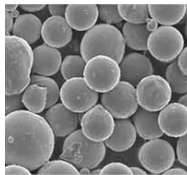
Gold



Al, Aluminum



Ti, Titan / Tita...



Gesinterte Me...



Graphit / grap...



Holz / wood



Perlen / pearls



Granit / granite



Onyx



Achat



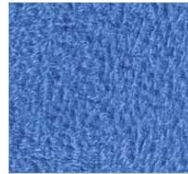
Jade



Peek



PMMA



div. plastics



Glas / glass



div. ceramics



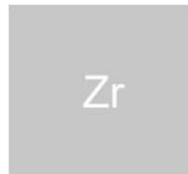
Schaumstoff /f...



PEEK



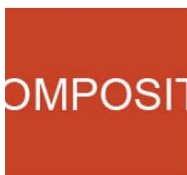
PMMA



Zirkoniumoxyd...



Wachs / wax



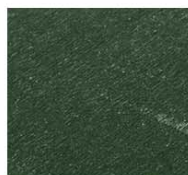
Komposit / co...



Sinter



Glaskeramik / ...



Wachs / wax