

DKSH TECHNOLOGY, 285 Cach Mang Thang Tam, ward 12, district 10, HCMC, Vietnam

**DKSH TECHNOLOGY**  
HCMC, VIETNAM

<b>Quotation</b>	
<b>Quotation:</b>	<b>210701/July 01<sup>st</sup> 2021</b>
Request Number:	
Request Date:	
Contact Person:	Ms. Hoa Thi Huynh Nguyen
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Universal package

## CNC Universal Cylindrical Grinding Machine ecoGrinder

Year of manufacturing: 2018

<b>Description</b>	<b>Total Amount CHF</b>
Machine	87,000.00
Accessories included	-
Packing included	-
Installation and training by DKSH Service included	-
<b>Total Amount (excl. Taxes)</b>	<b>87,000.00</b>

### The Art of Grinding.

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Quotation 210701/July 01<sup>st</sup> 2021  
DKSH TECHNOLOGY

Product: ecoGrinder  
Serial: 1042-0502

## CNC Universal Cylindrical Grinding Machine ecoGrinder

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## Machine

Mat.-No.	Description	Price	Quant.
<b>ecoGrinder</b>			
	Non CE compliant (CE = European Conformity)		
<b>Basic machine</b>			
	<b>Basic equipment</b>		1
A2400635-B	Center distance 650mm (25.591") Released for series: 1 - ...		1
A2400776-B	Center height 175mm (6.890")		1
A2901603-B	Machine base of Granitan S103 incl. vibration reducing mounting pads.		1
A2901607-B	and air cushion for swiveling (incl. support for radial dial indicator)		1
A2400657-VG	Mechanical graduation metric		1
60003110-B	Wheelhead axis X (NC-axis) 0 deg. Travel 285mm / 11.22".		1
60003111-B	recirculating ball screw. Travel 800mm (31.496").		1
A2723657-V	Direct measuring system for X-axis resolution 0.0001mm / 0.000,004" (linear, absolute measuring system, does not require reference point approaching)		1

## Machine

Mat.-No.	Description	Price	Quant.
A2723658-V	Direct measuring system of Z-axis resolution 0.0001mm / 0.000,004" (linear, absolute measuring system, does not require reference point approaching)		1 --
A1397052-S	Glass scale interface for direct measuring systems		1 --
<b>Wheelhead H1</b>			
A2912730-B	Wheelhead		1 --
A2912638-B	Wheelhead swivel axis manual (B-axis), for swiveling of the wheelhead. Indication of the swiveling position through scale ring with graduation 2.5deg. (without electric position monitoring)		1 --
A2912640-B	Hirth serration 2.5 deg. for wheelhead swivel axis. Swivelling angle -15 deg. to +195 deg.		1 --
A2912681-VG	Wheel guard in tool position T2 right dia.500mm / 20" for external grinding wheels dia.500x63mm / 20x2.5" form1 (80mm / 3.15" form5)  <b>General note for wheel guard in tool position T2:</b> The grinding length of the right grinding wheel is reduced by 50mm (1.969") when wheelhead swiveling position 30 deg.		1 --
A2417853-E	Internal grinding attachment for belt drive spindles dia.100mm / 3.94" in tool position T3 incl. ancillary equipment for connection of internal grinding belt drive spindles dia.100mm / 3.94" from the Studer assortment of accessories Note: inclusive manual sliding contact guard  <b>General note on the assignment of the wheel guards to the external grinding spindles:</b> -- Wheel guard right in tool position T2 for spindle 1		1 --
A2912732-B	External grinding spindle 1, roller bearing for belt drive. Taper 1:10. Nominal diameter 63mm / 2.48"		1 --
A2912826-B	Motor 9kW / 12.24hp (belt drive with constant revolution) for external grinding spindle 1		1 --

## Machine

Mat.-No.	Description	Price	Quant.
A2912828-B	Drive motor for external grinding spindle 1 has internal cooling		1 --
A2227773-B	Peripheral speed for external grinding spindle 1: dia. 500mm / 44m/s (19.685" / 8'661sfpm) dia. 400mm / 35m/s (15.748" / 6'890sfpm) dia. 300mm / 26m/s (11.811" / 5'118sfpm) (constant rpm of the grinding spindle)		1 --
60006339-E	Drive motor 3kW / 4.08hp with pulley dia.105mm (4.134") incl. frequency converter for belt-driven internal grinding spindles in tool positions T3, constant speed incl. Number of revolutions monitoring of the max. Engine speed  <b>General note regarding drive motor with frequency converter for belt-driven internal grinding spindles:</b> Only internal grinding spindles with belt drives from the accessories range for the corresponding machine type may be used, suitable for the pulley diameter of the drive motor		1 --
A2421709-E	Oil mist lubricating unit for belt-driven internal grinding spindles in tool holding fixture position T3, incl. oil level and pressure surveillance		1 --
<b>Workhead</b>			
A2909755-B	Universal workhead MT5, roller bearings, spindle nose with internal holding fixture MT5, spindle bore dia.30mm (1.181"). Manual spindle blocking without monitoring. Indirect driving of the workhead spindle (C axis) by means of toothed belt  <b>General note for workhead:</b> With interface G01 for dressing tool holder  <b>General note on workheads with fitting taper MT3, MT4 or MT5:</b> Incl. 1 workpiece driver (pin dia.8mm (0.315"))		1 --
A2909617-B	Manual correction of cylindricity for workhead		1 --
A2909607-B	Roundness accuracy when live spindle grinding 0.0004mm (0.0000157")		1 --

## Machine

Mat.-No.	Description	Price	Quant.
A2909816-B	Normal C axis for cylindrical grinding and circumferentially positioned supports, reference accuracy +/-0.5deg. for workhead spindle stock with indirect drive Released for series: 1 - 116		1 --
60017390-B	Workhead spindle without holding brake  <b>General note on workhead spindle holding brake:</b> -- No eccentric chucks, drivers and/or workpieces whose dead weight could move the spindle out of its position when the machine is switched off may be used without a workhead spindle holding brake.		1 --
A2939690-B	Workpiece drive 1.8kW / 2.45hp with AC servo motor		1 --
A2909715-B	Rpm-range 1-1500rpm, Inching speed 1-50rpm <b>Note:</b> With fixed centers max. 1000rpm. allowed		1 --
A2909795-B	Air cushion for easy workhead movement during set up.  <b>Load moment on live spindle grinding with:</b> -- Universal workhead MT5 max. 70Nm (51.66ftlbs)  <b>Workpiece weight between the centers:</b> -- with center distance 650mm (25.591") max. 80kg (176lb)		1 --
A1809715-M	Manual draw-bar for locking of live clamping device and collets W25		1 --
<b>Tailstock</b>			
A2410626-VG	Tailstock with fitting taper MT4 and 35mm / 1.38" stroke. Barrel dia. 50mm / 1.97" with plain bearing. Mechanically adjustable barrel travel control. Mounting of a dressing tool holder adjustable in height possible		1 --
A2910604-B	Manual tailstock fine adjustment for cylindricity corrections +/-0.04mm (0.001575") (in diameter)		1 --
A2910611-B	Air cushion for easy tailstock movement during set up.		1 --

## Machine

Mat.-No.	Description	Price	Quant.
<b>Dressing</b>			
60009081-M	Dressing device with interface G01 attachable to the workpiece table , movable in direction X, for dressing tool holder provided as accessory Released for series: 52 - ... <b>Note:</b> Can be set up for: -- External grinding wheels -- Internal grinding wheels with infeed direction forward (direction -X) -- Internal grinding wheels with infeed direction backward (direction +X)		1 Pc
<b>Control systems</b>			
A2902611-B	Operating panel and electrical cabinet permanently fixed to the machine		1 --
A2902644-B	Air conditioning for control cabinet		1 --
A2400826-B	AC voltage 400 Volt +/-10%		1 --
A2400828-V	Mains frequency 50Hz +/-1Hz		1 --
A2400653-B	Mains 4-wire (L1, L2, L3 / PE) or 5-wire (L1, L2, L3 / N / PE)		1 --
A1397036-B	Control voltage 24 Volt DC		1 --
60008950-B	CNC control Fanuc 0i-TD with: -- Color flat monitor 10.4" -- Integrated PLC control -- Usable memory 512kByte, memory for 400 programs Approx. 2kByte of the user memory is required by the Studer Operating System Release E and approx. Memory for 15 programs. (The memory requirements for the Studer sample are approx. 3kByte) and approx. Memory for 5 programs) Released for series: 40 - ...		1 --
60008960-B	Portable console for set-up with selector switch for axis- and function key selection (F1 to F8) and electronic handwheel, override, acceptance buttons and emergency stop Released for series: 40 - ...		1 --



## Machine

Mat.-No.	Description	Price	Quant.
A2217631-B	Working hour meter, range 0-99,999h		1 --
60008959-B	Dual Check Safety for Fanuc CNC drives and power lockout for other actuators after the end of cycle with access light and acknowledge button for setting up and starting automatically cycles Released for series: 40 - ...		1 --
A1397063-B	Interface (pluggable) for the connection of an electronic contact detection from the assortment of accessories. Incl. software for air gap elimination on the basis of the contact detection		1 --
A2912734-B	Interface 24V DC (socket) for power supply of the MPM balancing system from the assortment of accessories		1 --
A1397253-B	Connection installation for Embedded-Ethernet interface (passive interface) for Fanuc 0i-TD for data exchange between the CNC control and an external personal computer with standard Ethernet interface <b>Notes:</b> -- StuderCOM software for data exchange is available as an accessory -- Cannot be used for remote diagnostics Released for series: 40 - ...		1 --

## Software

A1397259-B	Studer operating system Release D for Fanuc 0i-TC consisting of: -- Operator-controlled set-up (only one swivelling angle per wheel for dressing and grinding can be set up) -- Manual grinding cycle for a workpiece diameter (automatable) -- Pictogramming (programming aid by means of pictograms) -- Grinding cycles for - Diameter machining - Shoulder machining - Taper machining - Free contour machining (X/Z) -- Workpiece, tool or seat specific correction facility -- Interactive grinding and regrinding of single workpiece batches without additional programming effort (Interact) -- Autom. dressing incl. free wheel shape (for a max. of 2 dressing tools per wheel) -- Program copy function		1 --
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## Machine

Mat.-No.	Description	Price	Quant.	Value CHF
	<ul style="list-style-type: none"> <li>-- Programmable robot cycle sequence (=idle cycle for maintenance of thermal machine stability)</li> <li>-- Diagnosis pictures for simplified troubleshooting Released for series: 40 - ...</li> </ul>			
<b>Software options</b>				
A1397135-B	Program Check with Handwheel for Studer operating system Release C or higher. Option allows to control infeed speed in an automatic program cycle through the handwheel. E.g. for testing a new workpiece program when approaching the workpiece or the dressing tool or when approaching a bore Released for series: 40 - ...		1 --	
60009060-B	Workpiece counter with display on screen (counting function via M-command) <ul style="list-style-type: none"> <li>-- 8-digit workpiece counter, resettable</li> <li>-- 8-digit workpiece totalizer, non-resettable</li> </ul> Cycle time display Released for series: 40 - ...		1 --	
A2404800-VG	Control system user interface with metric measurement units		1 --	
<b>Dialog language</b>				
A2404666-V	Dialog language English for Studer and Fanuc Operating System		1 --	
<b>In-process gauging</b>				
<b>General notes on touch probe:</b>				
<ul style="list-style-type: none"> <li>-- Depending on the touch probe and workpiece geometry as well as the machine configuration, it may not be possible to reach and measure all seats with the touch probe</li> </ul>				
60007649-E	H1 swiveling touch probe 1 (switching) angled to the machining surface for probe arm with thread M3 and software for compensation. For example, for active longitudinal positioning on shoulders (TouchPositioning) Released for series: 40 - ...		1 --	
60007652-E	Mounting location H1 touch probe 1 in tool position H1T2 Released for series: 40 - ...		1 --	

## Machine

Mat.-No.	Description	Price	Quant.
60006051-M	Probe arm with sphere dia.2mm (0.079"), length 21mm (0.827") for touch probe with M3 thread Released for series: 40 - ...		1 Pc

## Hydraulics

A2904710-B	2-circuit hydraulics nominal pressure 23bar with filter 10µm for hydraulics, nominal pressure 0.8bar with filter 6µm and electric filter-pollution, monitoring for lubrication of the X- and Z-axis, with common tank, oil volume 16 liters, hydraulic unit attached to the electric cabinet		1 --
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## Pneumatics

A2904622-B	Pneumatic basic unit with compressed air processing (filter, water separator with automatic drain), electr. main valve, circuit pressure surveillance		1 --
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## Coolant equipment

A2918679-B	Type of Coolant: Emulsion  <b>Note:</b> The machine is suitable only for the use of mineral emulsion (not synthetic). Flammable coolants (e.g. <b>grinding oils</b> ) cannot be used		1 --
A2918788-B	Coolant pressure circuit 0, Supply pressure up to max. 6bar		1 --
A2918721-B	Coolant interface for connection of a coolant supply system according to electr. interface description SDE0096402B. (Power consumption >10A, requires coolant device with own power supply). The required coolant volume and the mechanical interface are shown in the space assignment plan of the machine		1 --
A2918747-B	Cooling of the grinding drives with internal cooling is realized by means of process coolant with backflow into the coolant collector tray of the machine		1 --
A2918619-B	Coolant cycle valve 2 for process cooling on grinding wheel in tool holding fixture position 2		1 --

## Machine

Mat.-No.	Description	Price	Quant.
A2918620-E	Coolant cycle valve 3 for process cooling on grinding wheel in tool holding fixture position 3		1 --

## Enclosure

60005998-B	Partial enclosure (1150mm (45.276") from the ground, 275mm (10.827") over longitudinal table) with guard placeable in front of the machine's operating area and integrated coolant collector tray over the machine bed		1 --
60009105-B	Splash guard slidable to the grinding room Released for series: 51 - ...		1 --

## Color

60012579-B	<b>Standard machine color</b> -- Machine color upper part inside and outside signal white RAL 9003 -- Lower part of machine iron-gray RAL 7011 -- Color of wheel guards / grinding spindle holders signal red RAL 3001 -- Peripheral units and control cabinet inside and outside signal white RAL 9003 Released for series: 75 - ...		1 --
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## Machine documents

A2400798-B	Test certificates of machine geometry		2 --
A2420700-B	Electrical test certificate according to EN 60204-1 Protective conductor continuity test		1 --
A2900649-V	Operating and programming instruction English <b>General note on the operating and programming instructions:</b> includes accompanying CD with operating and programming instructions in pdf format		1 --
A2900677-V	Fanuc operator's manual English Released for series: 1 - 117		1 Pc
A2900688-V	Fanuc maintenance manual English Released for series: 1 - 117		1 Pc

## Machine

Mat.-No.	Description	Price	Quant.
A2900816-B	equipment (English/German) for maintenance. By the majority as a PDF file on CD		1
A2900618-B	put in the control cabinet, consisting of: -- Hydraulic schematics -- Pneumatic schematics -- Coolant schematics -- Log book		1
A2900619-B	Software documentation/Data backup		1

## Miscellaneous

A2900613-B	Operating tools		1
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## Warranty

A9904227-B	The warranty period is 12 months		1
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## Notes to necessary accessories

- Grinding wheels/grinding wheel adaptors.
- Extractor tool for dismantling the grinding wheel.
- Dressing tool holder and dressing tools.

## Accessories

Mat.-No.	Description	Price	Quant.
<b>Tool head / Wheelhead</b>			
<b>External grinding</b>			
<b>Wheel adaptor, nominal diameter 63mm (2.480")</b>			
A2432795A-Z	Wheel adaptor dia.500mm / 20" with bore 203.2mm / 8". Width 32-63mm / 1.25-2.5" form1 (80mm / 3" form5) for tapered shaft ends 1:10 with nominal diameter 63mm (2.480"). Incl. balancing segments and graduation		1 Pc
<b>Grinding wheel changing unit</b>			
A2237731A-Z	Wheel changing shaft (length 220mm (8.661")) for more ergonomic grinding wheel change, for shaft end with nominal diameter 63mm (2.480"), including extractor nut (instead of the extraction tool)		1 Pc
<b>Static balancing</b>			
A2812119-Z	Balancing arbor for grinding wheels with nominal dia.63mm (2.480"), length 310mm (11.220"), for balancing equipment dia.400mm (15.748") or dia.600mm (23.622")		1 Pc
<b>Internal grinding</b>			
30005687-Z	Adhesive for mounting of internal grinding wheels on threaded bolts Araldite Rapid 2-component adhesive (double-syringe with 12ml each) <b>Note: No longer usable for new quotes,</b> was replaced by selling no A5600032A		1 Pc
<b>Internal grinding spindles with belt drive</b>			
<b>General note on internal grinding spindles with belt drive for drive motor with frequency converter:</b>			
The specification of the pulley diameter of the drive motor on the internal grinding spindle must coincide with the specification of the drive motor on the wheelhead , according to the sales text in the machine insert			
A2917640A-Z	Internal grinding spindle 40'000rpm. with belt drive for drive motor with pulley dia.105mm / 4.13" with frequency convertor. (for bore dia.13-45mm / .51-1.77"). Spindle type 102540B, dia. 100mm / 3.94" with oil mist lubrication. With tool holding fixture HJND 35. Incl.: 1 driving pulley dia.31mm / 1.22" 5 medium grinding arbors 45 bolts		1 Pc

## Accessories

Mat.-No.	Description	Price	Quant.
<b>Internal grinding wheels</b>			
Wheels for internal grinding quills			
General application of abrasives:			
<b>11C Silicon Carbides for:</b>			
Cast iron / tungsten carbide / glass / plastics / non-ferrous metals / ceramics / stainless, acid and heat resistant steel / hardened steel 63 HRC and higher / nitriding steel.			
<b>54A Pure aluminium oxide for:</b>			
Non-alloyed, alloyed, unhardened and hardened steel up to 63 HRC (carbon content up to 0.5% / stainless, acid and heat resistant steel / nitriding steel (untreated) / cast steel nodular cast iron / tool steel / hard-chrome plated steel.			
<b>93A Ceramic aluminium oxide for:</b>			
Difficult-to-grind steel and alloys (tool steel, high speed steel) from soft state to 64 HRC / cast steel / cast iron			
A5583077A-Z	Wheel dia.20x20x6mm 54A 120 H 15 VPMF604W, cutting speed 50m/s / 9840sfpm. (1 set = 10 pieces) <b>Note:</b> Not available. Use 30064619 as an alternative		1 Set
<b>Alternatives to 3M grinding wheels</b>			
30064165-Z	Grinding wheel form 1 dia.500x50x203.2mm / 20x2x8", 89A 80 H8A V217, 50m/s, (9840sfpm)		1 Pc
<b>Workhead</b>			
<b>Jaw chuck</b>			
<b>Three-jaw manually operated chuck (spiral chuck)</b>			
A2909856A-Z	3-jaw manual chuck dia.125mm (4.921") with adaptor for internal holding fixture MT5 Scroll chuck, radial precision centring Clamping range: External dia.3-125mm (0.118"-4.921"), internal dia.34-115mm (1.339"-4.528") Repeating accuracy: approx. 0.02mm (0.0008") Including: -- Hard jaws (1 set for outside chucking and 1 set for inside chucking) -- Chuck key/adjusting key -- Torsion protection for adaptor <b>Note: Requires hand chuck key for locking clamping devices</b>		1 Pc

## Accessories

Mat.-No.	Description	Price	Quant.
<b>Face plate</b>			
<b>Driver</b>			
A1809617A-Z	Drivers for dia. 10-50mm (0.394"-1.969"), set consisting of 1 piece of each for workpiece diameter up to max. dia.10mm (0.394"), dia.16mm (0.630") , dia.25mm (0.984)", dia.40mm (1.575"), dia.50mm (1.969")		1 Set
<b>Inserts for carrying centres</b>			
A1809107A-Z	MT4 centre adaptor for internal holding fixture MT5 Incl. extractor nut M48x1.5		1 Pc
<b>Centres for workhead and tailstock</b>			
<b>Centres for internal holding fixture MT4</b>			
A2810030A-Z	Full centre A short dia.35mm (1.378") for internal holding fixture MT4		1 Pc
A2810182A-Z	Full centre A long dia.35mm (1.378") for internal holding fixture MT4		1 Pc
<b>Dressing</b>			
<b>Dressing tool holder</b>			
A2915701A-O	Dressing tool holder vertically adjustable with interface G01. With 3 fitting tapers Morse1 shortened for 2 dressing tools		2 Pc
<b>Dressing tools</b>			
<b>Dressing tools with fitting taper MT1 shortened (clamping length 19mm / 0.748")</b>			
A5560730A-Z	Needle fliese type DV/10 NX, height 10mm (0.394"), length 18mm (0.709") with fitting taper MT1 shortened (clamping length 19mm (0.748"))		1 Pc
A2813077A-Z	Single point diamond 0.1 carat, with fitting taper MT1 shortened (clamping length 19mm (0.748"))		1 Pc



## Packing

Mat.-No.	Description	Price	Quant.
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### Packaging in standard box(es) for transport

**Packaging description:**

Disposable packaging in standard wooden box  
 (within the box sealed in plastic, suitable for transport by sea),  
 however, **not suitable for outdoor storage**  
 Treated in accordance with ISPM 15 to prevent the import of wood pests.  
 Incl. provision, preservation and transport securing devices.  
 Without suspension device  
**Note:** Container loading not possible at our plant.  
 Boxes have to be picked up by the freight forwarder in a curtain-sider truck  
 and loaded into containers at the port.

A9904801	Packing S in standard crate <b>Note:</b> Requires separate seaworthy packing for tool cabinet and paper band filter		1 --
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## General conditions

### Shipment Conditions / Incoterms:

EXW Bangkok Thailand (Incoterm 2010)

### General conditions of Supply

According to SWISSMEM General Conditions of Supply.  
Other conditions are only binding if confirmed by our written acknowledgement. If other terms and conditions are mentioned in the order, these will not be valid unless expressly acknowledged in writing by us. (Enclosure: General conditions of contract for the supply of plant and machinery of SWISSMEM, edition 2016).

### Term of delivery 2-4 weeks

after receipt of written order  
Subject to prior sale

### The manufacturer reserves the right to make technical changes

### Retention of title

Studer reserves the right to retain the title to its delivery until payment has been made in full.

### Export information

These goods are subject to international export control measures.  
Fulfillment of the contract is subject to granting of the required export and transition approvals

### Environmental influences

The machine must be protected on its site against damaging ambient influences like heat, exposure to sunrays, draft of air, cold, dust and moisture.

### Tooling and Equipment

Tools, Tooling and Equipment (e.g. grinding wheels, dressing tools, Emulsion etc) which have not been explicitly ordered with the Machine and are necessary for the operation, must be supplied by the user in due time for the machine installation.

**Regulations / Standards**

The machines are built and use equipment, components and methods that meet the generally recognized regulations and standards for the market segment.

Specific works regulations/operation method cannot be considered.

**Currency** as per quotation

**Special terms of payment (negotiable)**

50% deposit, 50% by bank transfer before shipment

**Our bank details:**

Beneficiary Name: DKSH Singapore Pte Ltd  
Beneficiary Address: 47 Jalan Buroh #09-01, Singapore 619491  
Beneficiary's Bank: DEUTSCHE BANK AG  
Account no: 2527844010  
Bank code: DEUTSGSGXXX  
Branch Name: Main office  
Branch code: 001

Legend-Price List code:

B	Basic equipment
VG	* Version of basic machine
V	* Version
S	* Special equipment
E	Special accessories optional, retrofittable under certain conditions (Service engineer)
M	Special accessories, subsequent supply possible without any problems
O	Accessories (usually) installed
Z	Accessories separately
_G	Recommended option for basic machine specification
_K	Studer code for customer specific price list CO items
KA	Customer specific items
N	Non-function
*	cannot be altered, retrofitted after receipt of order

Compliance notice

We would like to point out that our employees are required to strictly comply with all applicable legal regulations and the values and principles of the UNITED GRINDING Group. In particular, our employees may not offer, promise or grant unreasonable advantages or benefits. Details can be found in our Code of Conduct at [www.grinding.ch](http://www.grinding.ch)