

GILDEMEISTER CLX 450 TC

Machine and Options

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Promotion package

1 BASIC, bestaand uit:	B-AC LX00	1
2 Universal turning-/milling center CLX 450 TC with turning length 1100 mm (43.3 in)	B-A7290*	1
- Main spindle as integrated spindle motor, ISM 65, A2-8", drive power 14/17 kW (18.7/22.7 hp) (S1-100%d.c. / S3-40%d.c.), torque 275/345 Nm (202.8/354.4 lb*ft) (S1-100%d.c. / S3-40%d.c.), speed range 0-5.000 rpm - Hollow clamping device Ø67 mm (2.6 in) - Turning-/ milling spindle compactMASTER, drive power 8,8/10,5 kW (11.8/14 hp) (S1-100%d.c. / S3-40%d.c.-2min), torque 73/90 Nm (53.8/66.3 lb*ft) (S1-100%d.c. / S3-40%d.c.-2min), speed range 0-12.000 rpm, reception HSK-A 63 DIN 69893 - B-axis ±120° - Y-axis ±100 mm (±3.9 in) - 30-fold chain magazine - Absolute, direct measuring systems in X- and Y-axis - Tailstock hydraulically operated with foot control pedal - DMG MORI IoT connector - Ergonomic control panel DMG MORI SLIMline - Siemens 840D sl		
3 Electronic handwheel	B-Z0140	1
4 Documentation as per Delivery list Technical Documentation - contained in machine price -	B-A0095	1

Besturing

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| 5 CNC-control
with Siemens 840D sl Operate
Inclusive 19" SLIMline®
control with multi-touch-monitor | B-A7080* | 1 |
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Spindle

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| 6 Counter spindle as integrated
spindle motor, ISM 65, A2-8" | B-E7220 | 1 |
|---|---------|---|

- Drive power 14/17 kW
(18.7/22.7 hp)
(S1-100%d.c. / S3-40%d.c.),
- Torque 275/345 Nm
(202.8/354.4 lb*ft)
(S1-100%d.c. / S3-40%d.c.),
- Speed range 0-5.000 rpm
- Partial hollow clamping device Ø67 mm
(2.6 in)
- C-axis and spindle brake (hydr.)
- Slide (Z3), AC servo motor with
ball screw, absolute encoder

Opties voor spindel

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| 7 Clamping pressure adjustment at the
control for the main spindle | B-B0034 | 1 |
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The clamping pressure can be
specified by NC program

- | | | |
|--|----------|---|
| 8 Clamping pressure adjustment at the
control for the counter spindle | B-B0034G | 1 |
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The clamping pressure can be
specified by NC program

Spanmiddel voor hoofdspindel

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|---|---|---------|---|
| 9 | 3-jaw power clamping chuck
with through-hole | B-S0140 | 1 |
|---|---|---------|---|

Type NCE 210-66, Schunk
incl. connecting elements

- Max. clamping force 100 kN
- Max. actuating force 38 kN
- Max. speed 5000 rpm

Spanklauw voor tegenspindel

- | | | | |
|----|---|----------|---|
| 10 | 3-jaw power clamping chuck
with through-hole | B-S0140G | 1 |
|----|---|----------|---|

Type NCE 210-66, Schunk
incl. connecting elements

- Max. clamping force 100 kN
- Max. actuating force 38 kN
- Max. speed 5000 rpm

Losse kop

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|----|--|---------|---|
| 11 | Tailstock function for the counter
spindle incl. foot switch. | B-D7020 | 1 |
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Mechatronic control of the
supporting force, selectable per
program

Thrust force:

CTX 2500, CTX beta, CTX beta TC, CLX TC:

2.5 - 6 kN

CTX beta 2000 TC:

2,5 - 17 kN

Koelmiddel/spanenafvoer

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|----|---|---------|---|
| 12 | Scharnierende spanentransporteur
incl. koelvloeistoftank | B-F7002 | 1 |
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| 13 | Reinforced coolant pump 12 bar,
23 l/min (174.04 psi, 6.07 gal)
instead of 6 bar, 20 l/min
(87.02 psi, 5.28 gal) surcharge | B-F0005 | 1 |
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14	Voorbereiding voor olienevelafschelder, incl. elektrische interface Aansluitdiameter: Ø 198 mm uitzonderingen: NEF 400, CTX 2500, CTV 3rd: Ø 147 mm	B-H0010	1
15	Chuck rinsing device for main spindle, outside	B-B0012	1
16	Chuck rinsing device for counter spindle, outside	B-B0012G	1
17	Coolant supply through the counter spindle	B-B0045G	1
18	Koelmiddelspuitpistool	B-Z0400	1
19	Vensterreiniging van de veiligheidsruit van de werkruimte met druklucht (Aanwijzing: het gebruik van koelmiddel kan het zicht op het werkstuk bij de bewerking/aanvaren beïnvloeden)	B-Z0262	1

Meten/bewaken

20	Workpiece touch probe RMP40, Renishaw	B-H7017	1
- Dimensions basic body (excl. stylus length): L= 50 mm (1.9 in), Ø= 40 mm (1.5 in) - Interchangeable in turning/milling spindle - Probe reception and tracer point with data transfer between probe and receiver by radio signals - Incl. measuring cycle package Inspection Plus			

Note:

Custom measuring cycles are not
included

- 21 Tool measuring device RP1, Renishaw B-H7018 1

Automatic 5-way tool measurement in the machine by means of touch cubes to avoid measuring and transmission errors. Precise measurement of tool length and tool diameter for stationary tools (turning tools).

The measurement takes place below the tool changer, protected behind the tool loading hatch.

- 22 MPC 1.0 - Machine Protection Control B-H70901* 1
Machine protection by quick shutdown of milling head in less than 0,01 sec

Automatisering

- 23 proTIME B-Z0206* 1
Visualisation of the remaining runtime, remaining workpieces and the machine state

- 24 Automatische deur, elektrisch B-H7050 1

- 25 Electrical interface standard Profibus for Robo2Go B-L7208 1
Incl.
- Additional compressed air supply
- Additional Ethernet interface
- Power supply of the robot by the machine
- User interface integrated into CELOS*
(Powertool with CELOS 4 as App)
The Powertool / App will be installed with integration of the Robo2Go to the machine.

Note:

- Special operating mode 3 / operating mode grinding is not feasible in connection with the electrical interface
- *Except CLX 450 TC

Algemene opties

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| 26 | Package for tropical climate for ambient temperature of max. 50°C, consisting of cooling system for control cabinet (until 50°) and machine | B-Z0076 | 1 |
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Meten

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| 27 | Eenheid in mm | B-Z0110 | 1 |
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Options for Siemens control with CELOS

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| 28 | Gereedschapbewakingssysteem
Easy tool Monitor 2.0
Eenvoudige holistische weergave van de actuele gereedschap status in Side screen van CELOS.
Bewaking per bewerkingsschap voor elk gereedschap gekozen van de gereedschaplíjst.
Elke leerfunctie voor bepaling van de bewakingsgrens van een gereedschap via de bewerkingssnede handmatig veranderen/corrigeren
- gereedschapbreuk- en slijtagebewaking
- procesanalyse en -optimalisatie | B-A0411* | 1 |
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Note:

- alleen beschikbaar in verbinding vanaf Siemens Operate 4.7
- *Except CLX 450 TC

Opties voor CELOS met SIEMENS/SIEMENS

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|----|--|----------|---|
| 29 | Excentrische draai- en freesbewerking
(alleen met Siemens-besturing en Y-as) | B-A0326* | 1 |
| 30 | Technologie-cyclus voor gebruik van
een wisselend toerental voor trillings-
gevoelige opspanning
(alleen in combinatie met Siemens
besturing) | B-A0335* | 1 |
| 31 | Polygon Turning voor bewerking
van elliptische en polygene vormen
op eindvlakken | B-A0337 | 1 |
| 32 | Met de programma status-controle
wordt de staat van de delen op de
besturing vastgehouden en/of
beïnvloed.
In het bijzonder geschikt voor
multi-channel machines | B-A0342* | 1 |
| 33 | Multi-schroefdraadcycclus 2.0
Cycclus om positiegericht schroefdraad te
creeëren met vrije contouren, spoed en
vrij aantal schroefdraden bijv. voor grote
transmissies of speciaal schroefdraad.

Gerichte overlapping van schroefdraad met
dwarsgaten, bijv. omleidingssystemen met
kogelomloopmoeren is mogelijk.
(Beschikbaar met Siemens Operate
vanaf versie 4.5) | B-A0374 | 1 |
| 34 | Technology cycle with dialog-guided
programming for the production of any
keyways according to DIN6885 or driving
grooves according to DIN138 with
standard tools. | B-A0349* | 1 |

This option contains the technology
cycle with the corresponding input mask.

- 35 Technology cyclus om het werkstuk af te snijden door de Y-as om aanzienlijke hogere voeding, meer processtabiliteit en minder materiaalverlies te verkrijgen. B-A0351 1

Deze optie omvat de technologie cyclus met het bijbehorende invoermasker om de bewerking te vereenvoudigen en bedieningsfouten te minimaliseren. Volledig bruikbaar met de afsnijd-cyclus "Cyclus 95" in DIN-ISO en ShopTurn

- 36 Technology cycle for pushing internal and external gear teeth on components with single-tooth or multi-tooth shaping tools. B-A0364 1

The workpiece, the tool and the process parameters can be specified via an operating mask by the user.

Important settings of the machining strategy, such as safety distances, the infeed compensation or the feeding strategy (linear or degressive) can be easily adjusted.

The number of residual strokes are calculated automatically as an aid to optimize the process.

The created program can be stored workpiece-specifically.

Digitalization Products

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DMG MORI Software Solutions

- 37 **DMG MORI NETSERVICE** D-NT600* 1
Gekwalificeerde ondersteuning door diagnose op afstand
- 38 **DMG MORI IoTconnector** D-IO100* 1
De IoTconnector staat het gebruik toe van online services van DMG MORI (bijv. NETSERVICE of MESSENGER on ADAMOS)

39 **SERVICEcamera** D-NT601* 1
Camera set incl. accessories
(antenne, oplader, incl. SD kaart)

Services

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Verpakking/Transport/Installatie

40 Verpakkingskosten,
transportmiddelen en transportbeveiliging B-Y0005 1

41 Stand-by flat rate for delivery
FCA B-Y0010 1

Sales company services

42 PACKAGE UNLOADING AND FIXING - ON
DEMAND B-PACK 1

43 INBEDRIJFSTELLING, PER DAG B_IBN 4

44 SCHOLING B_SCHO 4

45 TRANSPORT/VERZEKERING B_TRAN 1