

Step 5. Select Options

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Options

Because FlexiCAM serves so many markets we have a huge selection of configurations available. Not all options are available for each series of machines so carefully look at the list of machines and what these options are appropriate for it. The following is a partial list of some of our options available, but does not constitute all of them. If you have an option that you think would be highly useful to you in your work, please contact us to discuss how we can integrate it for you, because if you need this option, chances are there are another 100 customers out there that could use it as well.

Aggregates

Aggregates are available for most automatic toolchange spindles over 7hp and are available in both ISO and HSK format. Aggregates add extra functionality to the spindle giving you more than just the ability to just mill in a plunging approach, options such as side boring, floating trimmers, Saw blades and programmable rotary milling give you much added functionality to production environments. When looking to choose aggregates there are 3 different duty cycle versions available. The first is for basic drilling and machining operations with these aggregates operating at a 30% duty cycle, the second version is for application with up to a 60% duty cycle, and the third which is an oil bath style capable of 100% duty cycles, for very demanding applications under heavy load. All colleted options are available with an ER25 Collet system. Motorized Flange for Spindles ISO-30 4kw/8kw

- programmable C axis

- requires FlexiCAM Advanced Control System (ACS) Motorized Flange for Spindles ISO-30 13.5kw Motorized Flange for Spindles HSK-63F Flange (90 deg pitch) for Spindles ISO-30 4kw/8kw

- required for use of the ISO-30 aggregates with the HSD spindle Flange (90 deg pitch) for Spindles ISO-30 13.5kw Flange (90 deg pitch) for Spindles HSK-63F Single sided right angle head – Mono ISO-30 Single sided right angle head – Mono HSK-63F Maximum RPM 12,000

Maximum torque 12 Nm (4000 rpm)

Gear ratio 1 : 1.5

Weight approx. 6 lbs

Tool outlet - ER 25 collet system

- ER 25 collet system

- Sawblade (4 bolt) Double sided right angle head Duo ISO-30 Double sided right angle head Duo HSK-63F Maximum RPM 12,000

Maximum torque 12 Nm (4000 rpm)

Gear ratio 1 : 1.37

Weight approx. 6 lbs

Tool outlet Combination of:

- ER 25 collet system

- ER 25 collet system

- Sawblade (4 bolt) Four sided right angle head Quattro ISO-30 Four sided right angle head Quattro HSK-63F Maximum RPM 12,000

Maximum torque 12 Nm (4000 rpm)

Gear ratio 1 : 1.37

Weight approx. 6 lbs

Tool outlet - ER 25 collet system Adjustable angle head Flex ISO-30 Adjustable angle head Flex HSK-63F Maximum RPM 12,000

Maximum torque 12 Nm (4000 rpm)

Gear ratio 1 : 1

Weight approx. 12 lbs

Tool outlet - Optional

- Sawblade (4 bolt) with Sidelock 10 mm

- Kombi ER 25 with sawblade Single sided right angle head – Mono ISO-30 Single sided right angle head – Mono HSK-63F Maximum RPM 15,000

Maximum torque 18 Nm (4000 rpm)

Gear ratio 1 : 1.5

Weight approx. 8 lbs

Tool outlet - ER 25 collet system

- ER 32 collet system

- Sawblade (4 bolt) Double sided right angle head Duo ISO-30 Double sided right angle head Duo HSK-63F Maximum RPM 15,000

Maximum torque 18 Nm (4000 rpm)

Gear ratio 1 : 1.5

Weight approx. 8.5 lbs

Tool outlet Combination of:

- ER 25 collet system
- ER 32 collet system
- Sawblade (4 bolt)Four sided right angle head Quattro ISO-30Four sided right angle head Quattro HSK-63Maximum RPM 15,000
Maximum torque 18 Nm (4000 rpm)
Gear ratio 1 : 1.5
Weight approx. 9.5 lbs
- Tool outlet - ER 16 collet system
- Sidelock 10 mmAdjustable angle head Flex ISO-30Adjustable angle head Flex HSK-63FMaximum RPM 15,000
Maximum torque 18 Nm (4000 rpm)
Gear ratio 1 : 1
Weight approx. 13 lbs
- Tool outlet - ER 25 collet system
- Sawblade (4 bolt) with Sidelock 10 mm
- Kombi ER 25 with sawblade
- Lock recess trimming head Forte ISO-30Lock recess trimming head Forte HSK-63FMaximum RPM 15,000
Maximum torque 17 Nm (4000 rpm)
Gear ratio 1 : 1
Weight approx. 15 lbs
- Tool outlet - ER 16 collet system
- ER 25 collet system
- ER 32 collet system
- Sawblade with Sidelock 10 mm
- Special sawblade (corner notching)Undersurface trimming unit ISO-30Undersurface trimming unit HSK-63FMaximum RPM 12,000
Maximum torque 15 Nm (4000 rpm)
Gear ratio 1 : 1
Weight approx. 17 lbs
- Tool outlet - ER 25 collet system
- Weldon 12 mmPneumatic Feed Drill - available in several sizes and speedsElectric/Pneumatic Feed Drill - available in several sizes and speedsVertical trimming unit w/ tracing pad – Floating ISO-30Vertical trimming unit w/ tracing pad – Floating HSK-63FMaximum RPM 18,000
Maximum torque 15 Nm (4000 rpm)
Gear ratio 1 : 1
Weight approx. 12 - 18 lbs
- Tool outlet - Ortlieb 25 collet systemVertical drill unit multis-pindle (3,5 and 7 spindle) ISO-30Vertical drill unit multi-spindle (3,5 and 7 spindle) HSK-63FPitch 25 mm, 30 mm or 32 mm
Maximum RPM 10,000
Maximum torque 5 Nm
Gear Ratio 1 : 1
Weight 10 to 16 lbs.
- Tool outlet - Sidelock 10 mmSingle sided right angle head Mono ISO-30Single sided right angle head Mono HSK-63FOIL BATH LUBRICATION 100% Duty Cycle
Maximum torque 20 Nm (4000 rpm)
Gear ratio 1 : 1.5 or 1 : 0.686 (saw)
Weight approx. 8.5 lbs
- Tool outlet - ER 25 collet system
- ER 32 collet system
- Sawblade (4 bolt or SD type)
- Sawblade arbor
- Available in 3 (three) body lengths: Short, Medium and LongDouble sided right angle head Duo ISO-30Double sided right angle head Duo HSK-63FOIL BATH LUBRICATION 100% Duty Cycle
Maximum torque 20 Nm (4000 rpm)
Gear ratio 1 : 1.5 or 1 : 0.686 (saw)
Weight approx. 8.5 lbs
- Tool outlet - ER 25 collet system
- ER 32 collet system
- Sawblade (4 bolt or SD system)
- Sawblade arbor
- Available in 3 (three) body lengths: Short, Medium and LongAdjustable angle head Flex ISO-30Adjustable angle head Flex HSK-63FOIL BATH LUBRICATION 100% Duty Cycle
Maximum RPM 15,000
Maximum torque 18 Nm (4000 rpm)
Gear ratio 1 : 1

Weight approx. 13 lbs

Tool outlet - ER 25 collet system

- Sawblade (4 bolt) with Sidelock 10 mm

- Kombi ER 25 with sawblade

Specialty Cutting Groups

Boring Groups are for applications where you have a high duty cycle on the boring attachment. The most common Boring Group is the 9 position vertical boring block that is used in nested based manufacturing. It is configured for 32mm hole spacing. All Options are available on the Stealth and XL.Horizontal Double Drill with Saw3hp (2.2Kw)

saw dia. 150mm, rotation speed 4,850rpm

pneumatic 90 degree rotation

requires Advanced Control system (ACS)Horizontal Double Router with Saw3hp (2.2Kw) max tool dia. 3/4" ER32 (20mm),

saw dia. 120-180mm, rotation speed 8,400rpm

pneumatic 90 degree rotation, incl. suction hood

requires ACSBoring Head - 9 Vertical Spindles2hp(1.5Kw), rotation speed 3,200 rpm stroke 70mm

Has 5 drills in X axis, and 5 in the Y axis, comes standard

with all NBM systemsBoring Head, 7 Vertical Spindles, 4 Horizontal Spindles3hp(2.2Kw), rotation speed 3,200 rpm,

spindle stroke 70mm horizontal spindles are designed to perform edge boring with podsBoring Head, 10 Vertical

Spindles, 6 Horizontal Spindles, Saw2.3hp(1.6Kw), rotation speed 4,000 rpm, spindle stroke 60mm Circular saw max.

Diameter 120mm rotation speed 5,000rpmStud Welderseveral sizes and material feeders available Blind Rivet Aggregate

- Heavyauto feed, for use with blind rivets up to 32mm length

Accessories

Add accessories to your cutting solutionPhase ConvertersAs many commercial and residential areas only can supply single phase power to customers, FlexiCAM offers the option of Phase Converters. What this does is convert your single phase power into 3 phase power so that you are able to operate larger spindles and vacuum pumps without a problem. Most option that are 7Hp or less can be configured to run single phase, but larger HP system do require 3 phase either 220v, 380v or 480v. It is best to discuss with an electrician first the power that you have available in the building that you are looking to put your FlexiCAM into so that you can be sure that you have enough power to run the equipment correctly. Our Customer Service Centers can help you organize an evaluation of your facility.Dust Collectors

Different dust collector attachments perform better in certain situations, depending on if you are doing 2D or 3D type work. Our standard dust collector attachment comes in a manual and automatic configuration with a 4"/100mm connection on it to ensure that you are getting good airflow and chip extraction from the bit. The automatic model is designed larger to accommodate the nose of the spindle, as well as operating on pneumatic cylinders for moving it out of the way during tool changes. Contact a member of the sales team to see which would work best for you.Clamps

8 Aluminum clamps (4 short, 4 long) 8 t-slot keys, bolts, washersFree Standing Jib Crane LiftThis system is designed for handling large sheets of material, reducing the amount of labor required for operating your FlexiCAM system. By using one of these your operator can load, run, and unload the machine by himself, reducing your labor costs rapidly. Crane length can be selected according to your shop layout, allowing you to load up to 4 routers from 1 Crane.

- Crane and Lift with maximum lifting weight 185lbs / 84KG
- Crane and Lift with maximum lifting weight 250lbs / 113KG
- Crane and Lift with maximum lifting weight 500lbs / 227KGLight Barrier

Light Barrier

- sender and receiver (2 of each)
- vertical mounting height 200 / 700 mm
- incl. mode select switch and CE approved safety circuit

- Standalone Mount for Light Barrier
- Wallmount for Light BarrierMisc. Options

Customize your FlexiCAM system with the following accessory options to expand your application abilities.Pneumatic

Part Locator Pins (3 Pcs)Used for quick setup and positioning of sheet stockCold Air GunEliminate mist coolants &

accelerate dry machining speeds of metals, plastics, wood & ceramics upto 36%.Air Condition for Electrical

EnclosureRecommended for very hot or dusty environmentBellowsPrice and availability vary for each series of machine

and the number of covered axisControl Box up to 12hp(9Kw)includes contactor, circuit breaker, foot switch. Used to turn

the vacuum pump on using a foot pedal located close to the home positionMisting/ Lubricating system, Dual hose,

manual on/offHigh pressure air is required

Single hose also available

Vinyl Knife Attachment

Main application is cutting coated (paint mask or sand blast rubber) plates for airbrush or sandblasting Cutting or plotting head holds standard plotter pens and swivel knife. Comes furnished with swivel knife assembly which takes Roland

compatible blades Tension adjustment is by screw on the top of the assembly. Knife holder has adjustable blade

protrusionSets

Customize your FlexiCAM system with the following accessory options to expand your application abilities. It is

recommended that you order these options with your initial order, but you can order most of these options at a later date after you have received your FlexiCAM system. ER16 Collet Set 2-3mm, 3-4mm, 4-5mm, 5-6mm, 7-8mm 3/32", 1/8", 3/16", 7/32", 5/16", 7/16"; ER20 Collet Set 2-3mm, 3-4mm, 4-5mm, 5-6mm, 7-8mm, 11-12mm 3/32", 1/8", 3/16", 7/32", 5/16", 7/16"; ER25 Collet Set 2-3mm, 3-4mm, 4-5mm, 5-6mm, 7-8mm, 11-12mm, 15-16mm 3/32", 1/8", 3/16", 7/32", 5/16", 7/16", 5/8"; ER32 Collet Set 2-3mm, 3-4mm, 4-5mm, 5-6mm, 7-8mm, 11-12mm, 15-16mm 3/32", 1/8", 3/16", 7/32", 5/16", 7/16", 5/8"; ER40 Collet Set 2-3mm, 3-4mm, 4-5mm, 5-6mm, 7-8mm, 11-12mm, 15-16mm 3/32", 1/8", 3/16", 7/32", 5/16", 7/16", 5/8";

Collet Reference chart

Type	Size	Range	Dd	1d	2L	1I	2I	3I	ER16	0.5	1017	01613	827	520	86	264	0	ER20	1.0	13	021	02017	431	523	96	364	8	ER25	1.0	16	026	02522	03425	96	665	0	ER32	2.0	20	033	03229	24030	97	165	5	ER40	3.0	26	041	04036	24634	97	667	0	ER50	5.0	34	052	05046	06046	013	408	5
ATC Spindle Accessories																																																															

Toolholders

Extra tool holders are available for all spindles that we carry. We carry almost every size of ISO cone as well as the HSK 63F and HSK 25-E line of holders. If you purchase a machine with ISO30 tapers, remember that you can purchase tool holders that will accept up to an ER40 collet, as well as the standard ones that ship with the spindle, which are capable of holding up to a ER32 Collet.

Tool Forks
If you are looking to work with aggregate tooling we have re-enforce tool forks with spring steel inserts inside of them to make every tool change the same as the first. Tool forks are available for most industry standard specifications.

Wrenches
It doesn't matter if you have a manual tool change spindle or an automatic tool changer, we stock replacement parts so that your machines stay running. FlexiCAM stocks a large range of wrenches for all type of spindle as well as hook wrenches for manual tool change systems. If you have a spindle that you don't see in the catalogue, or have purchased your machine from another company, don't worry we probably still have wrenches available that will work for you.

ER20 Collets

Part Number 1/8"; 3-4mm 3/16"; 5-6mm 1/4"; 7-8mm 5/16"; 9-10mm 3/8"; 11-

12mm 1/2"; 13-14mm 5/8"; 15-16mm 3/4"; 17-18mm 1"; 19-20mm

ER25 Collets

Standart Collet Metric Collet 1/8"; 3-4mm 3/16"; 5-6mm 1/4"; 7-8mm 5/16"; 9-10mm 3/8"; 11-

12mm 1/2"; 13-14mm 5/8"; 15-16mm 3/4"; 17-18mm 1"; 19-20mm

ER32 Collets

Standart Collet Metric Collet 1/8"; 3-4mm 3/16"; 1/4"; 7-8mm 5/16"; 9-10mm 3/8"; 11-

12mm 1/2"; 13-14mm 5/8"; 15-16mm 3/4"; 17-18mm 1"; 19-20mm

ER40 Collets

Standart Collet Metric Collet 1/8"; 3-4mm 3/16"; 5-6mm 1/4"; 7-8mm 5/16"; 9-10mm 3/8"; 11-

12mm 1/2"; 13-14mm 5/8"; 15-16mm 3/4"; 17-18mm 1"; 19-20mm