

Custom Engineered Solutions

Product guide – Surface and exploration drill rigs





Different needs, different solutions

If you need to solve difficult challenges, replacing parts is not always enough. Custom Engineered Solutions offer a unique possibility to order something more than a part number. Based on your request we offer:

Complete component replacement

This is the basics of Custom Engineered Solutions, allowing a quick plug-and-play replacement. It will improve your productivity and safety, while minimizing machine downtime.

Configuration conversions

In many mining and rock excavation operations the equipment requirements can change from site to site. We can offer a solution to adapt your equipment to new configurations, with a custom engineered conversion kit.

New development

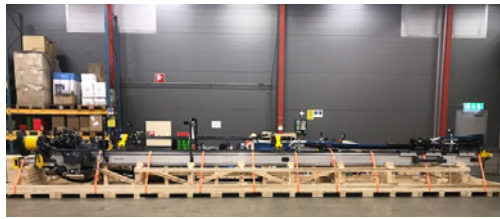
Some specifications may go beyond what is applicable for your machine. We can redesign existing components to suit your machine or develop something entirely new for you.

Epiroc component adaptation

We can adapt Epiroc components to suit usage outside of their original area of application. This solution also covers the conversion of Epiroc components to upgrade machines from other manufacturers.

Feed replacements and upgrades

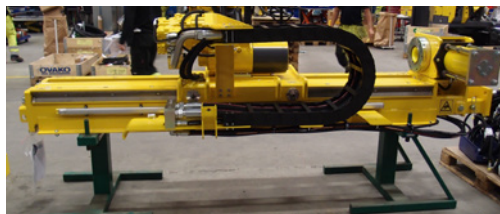
Product	Description
CES components	Chain feed
Applicable machine models	SmartROC/FlexiROC D50, D55, D60, D65, T45, C50, CL, ROC L (MKII) L6, L8, L7
Description	Assembled chain feed
Features and benefits	<ol style="list-style-type: none"> 1. Chain upgrade (for MkII rigs with rope feed) 2. Plug and play. Delivered with centered and set rod handling system 3. Built according to latest and greatest standard 4. Change of configuration due to change of site conditions
Bom (high level)	Feed with chain drive, cradle, RHS, break out table, electrical and hydraulic control installation with cables and hydraulic hoses. Dimension set. CLS and thread lubrication, sliding pieces.
Estimated kit installation time	16 hrs
Weight and dimension included in CES solution	43 m ³ and up to 5 700 kg



SmartROC D65 – Chain feed kit

Feed replacements and upgrades

Product	Description
CES components	Feed
Applicable machine models	Diamec PHC/Smart 232, U4, U6, U8
Description	Assembled feed
Features and benefits	<ol style="list-style-type: none"> 1. Plug and play 2. Change of configuration due to change of site conditions 3. Swing unit
Bom (high level)	Feed frame complete, cradle, hose guide, rod holder, dimension set
Estimated kit installation time	12 hrs
Weight and dimension included in CES solution	5.4 m ³ and up to 2 000 kg



Diamec Smart 6 – Feed

Production unit replacements and upgrades

Product	Description
CES components	RHS
Applicable machine models	SmartROC/FlexiROC D50, D55, D60, D65, T45, C50, CL, ROC L (mkII) L6, L8, L7
Description	Assembled RHS
Features and benefits	<ol style="list-style-type: none"> 1. Plug and play 2. Swing unit 3. Change of configuration due to change of site conditions
Bom (high level)	Magazine, shaft, arms, grippers, hoses, sensors, CLS
Estimated kit installation time	12 hrs
Weight and dimension included in CES solution	8.3 m ³ and up to 1 300 kg



FlexiROC D60/D65 – RHS kit

Technology option upgrades

Product	Description
CES components	HNS
Applicable machine models	SmartROC D50, D55, D60, D65, T35, T40, T45, C50, CL
Description	Hole Navigation System Leica or Trimble
Features and benefits	<ol style="list-style-type: none"> 1. Option for safe, easy drilling and improved productivity. 2. Change of configuration due to change of site conditions
Bom (high level)	HNS receiver and antennas, boom sensors, cables, rig interface , RTK option (depending if option prepared and full kit)
Estimated kit installation time	16 hrs
Weight and dimension included in CES solution	1 m ³ and up to 140 kg



Machine with HNS mounted

Option upgrades

Product	Description
CES components	Screw sampler
Applicable machine models	SmartROC/FlexiROC D50, D55, D60, D65, T35, T40, T45, C50, CL, ROC L (MKII) L6, L7, L8
Description	Sample analyzing
Features and benefits	<ol style="list-style-type: none"> 1. Sample analyzing 2. Improved productivity 3. Change of configuration due to change of site conditions
Bom (high level)	Complete analyzing device with operation panel, pre-separator, hoses.
Estimated kit installation time	5 hrs
Weight and dimension included in CES solution	2.3 m ³ and up to 300 kg



Screw sampler on a machine

Option upgrades

Product	Description
CES Components	RC, Reverse circulation
Applicable machine models	SmartROC/FlexiROC, D65, ROC L8(30) (only valid for LF - long feed versions)
Description	Sample analyzing
Features and benefits	<ol style="list-style-type: none"> 1. Sample analyzing 2. Improved productivity 3. Change of configuration due to change of site conditions
Bom (high level)	Complete analyzing device with operation panel, hoses, cables. (Option Riffle or Cone version)
Estimated kit installation time	16 hrs
Weight and dimension included in CES solution	12 m ³ and up to 220 kg



Reverse circulation on a machine

Tier upgrades and downgrades

Product	Description
CES components	Tier up/downgrades
Applicable machine models	FlexiROC/SmartROC D60, D65
Description	Tier up or downgrades
Features and benefits	<ol style="list-style-type: none"> 1. "Plug and play" power pack 2. Configuration change 3. Built according to latest and greatest standard
Bom (high level)	Power pack (content depending on scoop)
Estimated kit installation time	80 hrs
Weight and dimension included in CES solution	28 m ³ and up to 6 000 kg



FlexiROC D60 – Engine

Power pack upgrades

Product	Description
CES components	Cat C15 power pack
Applicable machine models	ROC L8(25)/(30), FlexiROC D60, D65, SmartROC D65
Description	Drive unit installation with assembled power pack
Features and benefits	<ol style="list-style-type: none"> 1. "Plug and play" power pack 2. Configuration change C13 to C15 and/or upgrade 25 to 30 bar air compressor 3. Built according to latest and greatest standard with poly vee belt installation 4. Stand by unit
Bom (high level)	Power pack, coolers, filters, diesel tank, hoses, exhaust, (hydraulic tank and main electrical cabinet depending on rig model year)
Estimated kit installation time	80 hrs
Weight and dimension included in CES solution	28 m ³ and up to 6 000 kg



FlexiROC D65 – Power pack upgrades kit

Environmental upgrades

Product	Description
CES Components	Noise reduction kit
Applicable machine models	SmartROC T35, T40. FlexiROC T30R, T35R, T40R
Description	The noise reduction kit encases the feed and reduces noise levels during drilling
Features and benefits	1. Reduces noise levels during drilling. Environmentally friendly 2. Change of configuration due to change of site conditions
Bom (high level)	Noise reduction case, hoses, valves, cables, lights
Estimated kit installation time	80 hrs
Weight and dimension included in CES solution	4.3 m ³ and up to 650 kg



SmartROC T40 – Noise reduction

GPS

Product	Description
CES components	GPS Compass
Applicable machine models	SmartRoc D50, D55, D60 ,D65 ,T35, T40, T45, C50, CL FlexiROC T30R, T35R, T40R, T35, T40, T45, D50, D55, D60, D65
Description	GPS Compass aiming unit
Features and benefits	1. Maintain hole quality, even in darkness and bad weather 2. The GPS compass replaces the manual aiming device used to set the blasting direction and parallel blast holes
Bom (high level)	GPS system kit with antennas, assembly set, cables, rig interface
Estimated kit installation time	2 hrs
Weight and dimension included in CES solution	Up to 60 kg

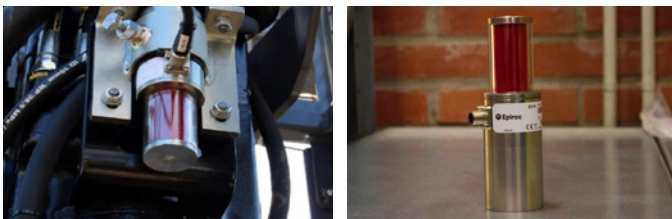


GPS mounted on a machine – GPS kit

Surface and exploration drill rigs

Laser

Product	Description
CES components	Laser
Applicable machine models	SmartRoc D50, D55, D60 ,D65 ,T35, T40, T45, C50, CL FlexiROC T30R, T35R, T40R, T35, T40, T45, D50, D55, D60, D65
Description	Laser plane receiver for hole depth, Hole & Inclination System
Features and benefits	<ol style="list-style-type: none"> 1. Accurate depth measurement 2. Measure the depth correctly, even in rough terrain
Bom (high level)	Laser system kit, assembly set, cables, rig interface
Estimated kit installation time	1 hr
Weight and dimension included in CES solution	Up to 70 kg



Laser on a machine

Boom replacements and upgrades

Product	Description
CES components	Boom SF (short feed) C14, LF (long feed) C20
Applicable machine models	Smart/FlexiRoc D50, D55, D60 ,D65 ,T45, C50, CL Roc L (MKII) L6, L8, L7
Description	Assembled boom system
Features and benefits	<ol style="list-style-type: none"> 1. Plug and play 2. Built according to latest and greatest standard
Bom (high level)	Pre/assembled boom system with cylinders, hydraulic hoses and CLS
Estimated kit installation time	18 hrs
Weight and dimension included in CES solution	20 m ³ and up to 5 700 kg



Boom system. Surface drilling



United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.
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