system 3R

Tooling Delphin modular clamping system



Design and quality by System 3R

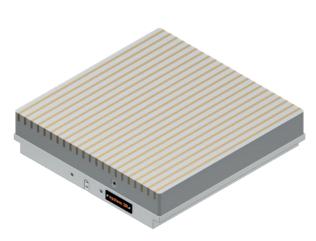
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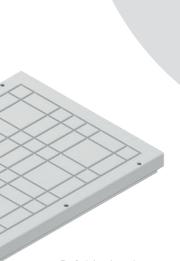
One Machine Base – Lots of workpieces held in



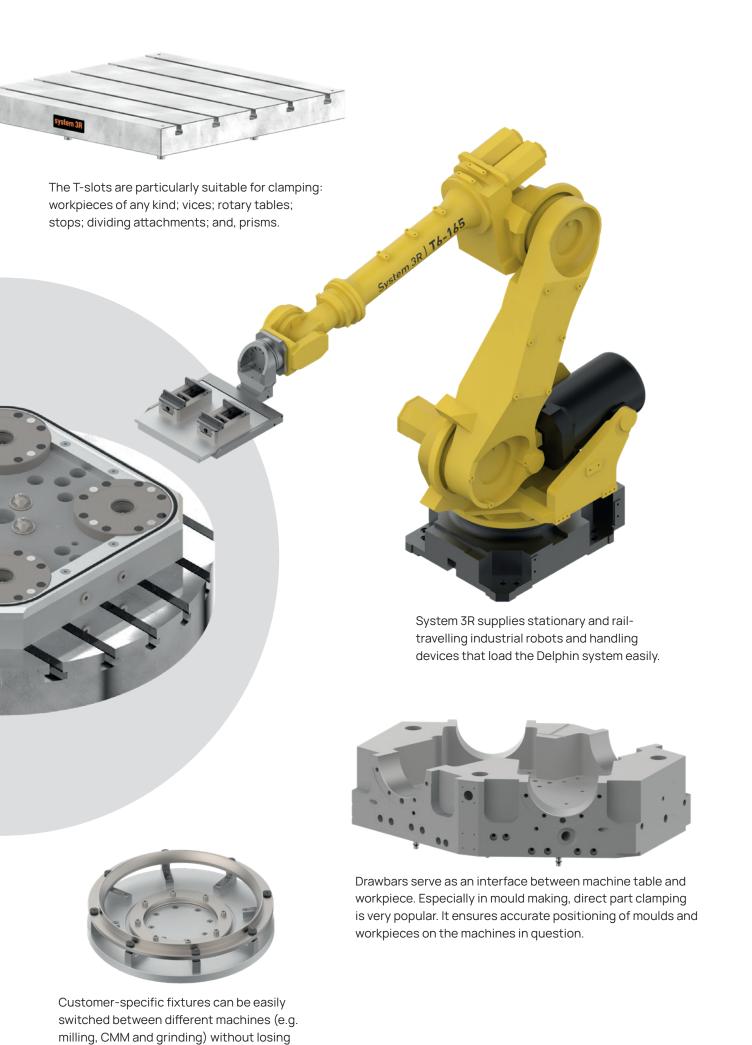
Pre-assemble all types and sizes of vices on the pallet



Milling magnets are particularly suitable for fivesided machining. The magnet pallet can be changed immediately without losing time for set-up.

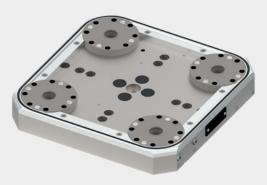


Delphin drawbars can easily be screwed to vacuum plates.



accuracy or time in setting up.

Different Delphin applications



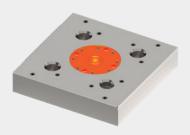
4-FOLD BASEPLATES

4-fold baseplates with a sealing frame are becoming popular for automated handling of pallets and parts.



BUILT-UP

Free positioning with built-up chucks.



HIGH-TEMPERATURE AND ADDITIVE MANUFACTURING

Delphin high-temperature chucks work particularly well in additive manufacturing.



PALGRIP

Universal lateral gripper for light and heavy weights.



PALLET GRIPPER

The Delphin gripper is the coupling interface between robot and pallet.



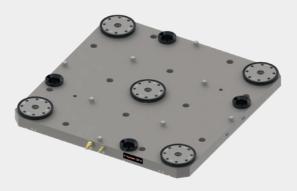
SPINDLE

Having two chucks on a spindle is very popular in the production of turbine blades. This clamping solution guarantees great stability when acceleration forces are high.



TOWER

Simple and easy vertical palletising of vices, pallets and fixtures. Fewer problems with chips (because they drop downwards).



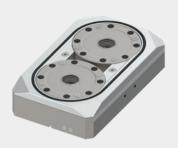
5-FOLD BASEPLATES

5-fold baseplates are popular with a Delphin index chuck in the middle. Thus, even small pallets can be used and it has more space in the magazine.



6-FOLD BASEPLATES

Baseplates with any number of Delphin chucks are possible.



2-FOLD BASEPLATES

2-fold baseplates are especially suitable for single vices.



ROTATABLE PRESETTING STATION

While the machine is running, workpieces can be pre-positioned on the rotatable presetting station.



CUSTOMISED APPLICATIONS

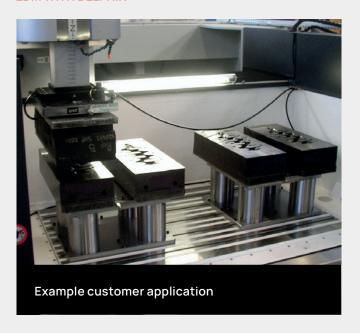
Delphin offers you maximum flexibility and freedom to design your customised applications.

MILLING WITH DELPHIN



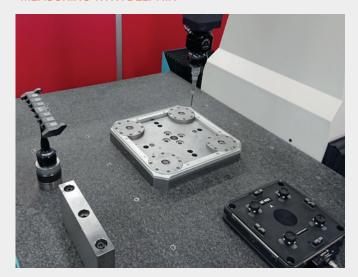
Thanks to high clamping force and mechanical locking, the Delphin clamping system is particularly suitable for milling, even under the extreme loads. Its modularity ensures extraordinarily accurate fitting for various devices and fixtures. This is essential in milling.

EDM WITH DELPHIN



Attaching electrodes or workpieces to a pallet has the great advantage of transferring the accuracy of upstream processes (e.g. CMM and milling) to the EDM process. The Delphin clamping system can even handle especially large electrodes and workpieces.

MEASURING WITH DELPHIN



Without removing the fixture, a workpiece can be measured on a measuring machine (e.g. for an intermediate check). Thanks to the drawbars, returning the workpiece to the production machine for further processing is highly accurate.

AUTOMATION WITH DELPHIN



Depending on the Delphin system, activation is either pneumatic or hydraulic. The control signals can be sent from the machine or the robot to the corresponding machine valves. These then activate the Delphin system. Modern robots and software work perfectly with the Delphin clamping system. This enables your machine to work day and night.

Why Delphin?



Highest repeatability.

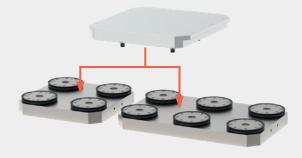


Highest process reliability.



FLEXIBILITY

PRODUCTIVITY



The Delphin clamping system is modular and adapts to your machine.
Standardised interface for all machines.



Fastest possible changing of pallets, devices and workpieces. Reduced set-up times.
Unmanned operation with Delphin automation.

Product overview







Description	DelphinClassic	DelphinCompact	DelphinCompact index
	Manual	Manual and automatic	Manual and automatic
Recommended applications	milling, wire/die-sinking EDM	milling, wire/die-sinking	milling, wire/die-sinking EDM,
	and laser	EDM, laser and automation	laser and automation
Recommended workpiece	up to 500 kg	up to 500 kg	up to 500 kg
weight / chuck			up to 80 kg, manual handling*
			up to 50 kg in automation*
Clamping force	10 kN	15 kN, with turbo locking	15 kN, with turbo locking
Holding force	60 kN	60 kN	60 kN
Safety	mechanical self-locking	mechanical self-locking	mechanical self-locking
Presence control and cleaning	no	yes	yes
Releasing	pneumatic, 6 - 10 bars	pneumatic, 4 - 10 bars	pneumatic, 4 - 10 bars
	hydraulic, up to 30 bars	hydraulic, up to 30 bars	hydraulic, up to 30 bars
Soft landing and lift-up function	no	up to 1 mm	up to 1 mm
Lift-up weight / chuck		up to 150 kg at 6 bars	up to 150 kg at 6 bar
		up to 1,000 kg at 30 bars	up to 1000 kg at 30 bars
Centre-to-centre distance (cc)	120 - 400 mm	120 - 400 mm	120 - 400 mm
Diameter	Ø 115 mm	Ø 115 mm	Ø 115 mm
Centre repeatability	0.003 mm	0.003 mm	0.003 mm
Angle repeatability	-	-	0.02 mm
System centring accuracy	0.005 mm	0.005 mm	0.005 mm
			0.02 mm angle / 100 mm*
Material	hardened stainless steel	hardened stainless steel	hardened stainless steel

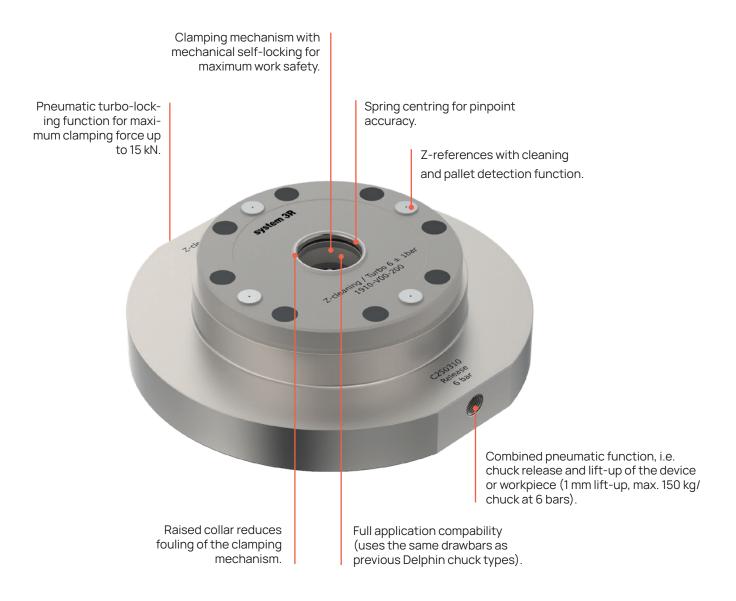
*Valid for index single chuck C254810 pallet.





DelphinHCP	DelphinBIG
Manual and automatic	Large part manufacturing
milling, die-sinking EDM, laser and automation	milling, laser and automation
up to 500 kg	up to 2 000 kg
15 kN	50 kN, with turbo locking
60 kN	100 kN
mechanical self-locking	mechanical self-locking
yes	yes
hydraulic, 30 - 70 bars	hydraulic, 40 - 60 bars
up to 1 mm	up to 2 mm
up to 1,000 kg at 55 bars	up to 2,500 kg at 60 bars
100 - 400 mm	400 - 1,000 mm
Ø 95 mm	Ø 150 mm
0.003 mm	0.005 mm
-	-
0.005 mm	0.010 mm
chuck front, hardened stainless steel; other	hardened steel
	Manual and automatic milling, die-sinking EDM, laser and automation up to 500 kg 15 kN 60 kN mechanical self-locking yes hydraulic, 30 - 70 bars up to 1 mm up to 1,000 kg at 55 bars 100 - 400 mm Ø 95 mm 0.003 mm - 0.005 mm

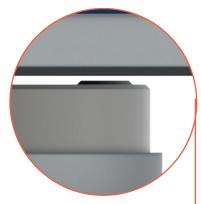
DelphinCompact chuck



KEY FACTS

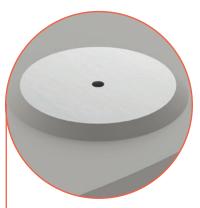
- Very compact design (outer diameter 115 mm)
- Stainless steel (used for milling, EDM, wire EDM, turning and grinding processes)
- High clamping force (up to 15 kN with turbo locking)
- Pneumatic opening (lift-up function, 150 kg at 6 bars).

DelphinCompact chuck



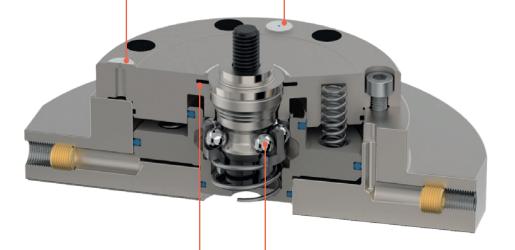
JFT-UP

The lift-up function lets pallets land softly on the Z-supports and protects them from impacts. This function also significantly improves pallet presence control.



Z-SUPPORT CLEANING

Perfectly balanced Z-support surface for the best possible cleanliness, dirt removal and detection.



CENTRING

Conical spring centring for absolutely zero play between drawbar and chuck. This ensures the highest possible repeatability, excellent rigidity and less vibration.



DIRT INSENSITIVE

A floating ball cage permits a larger angular deviation between pallet and chuck during loading and unloading. In Additionally, the design is dirt insensitive.



DelphinCompact chuck

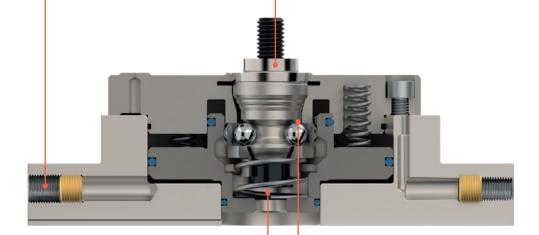


REQUIRED AIR PRESSURE

Many clamping systems need an at least 6-bar compressed air supply. The DelphinCompact chuck requires only 4 bars to open the chuck and release the drawbar. This saves money and increases process safety.

HOLDING FORCE

The holding force sets the maximum permissible pull-out force. In turn, this latter force determines safety until the pallet is pulled out of the chuck. Delphin chucks have a minimum holding force of 60 kN.



DRAIN HOLE

When unloading a pallet, dirt and water from the milling process can get into the clamping system.

The Delphin system has a drain hole. Thus, dirt and water flush out and the chuck keeps the functionality.



CLAMPING FORCE / PULL-IN FORCE

The clamping or pull-in force sets how tightly a drawbar is pulled into the system. Together with other features such as centring, it determines system stability and rigidity.



DelphinCompact - for automated and manual applications

Technical data

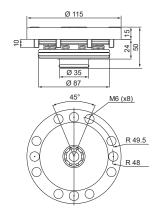
- Clamping force at 6 bars turbo pressure, up to 15 kN
- · Holding force, 60 kN
- Air pressure open, 4 10 bars
- Oil pressure open, max 30 bars
- Lift-up function, pneumatic,150 kg at 6 bars (lift-up 1 mm)
- function, hydraulic, 1,000 kg at 30 bars (lift-up 1 mm)
- · Repeatability, within 0.003 mm
- · Material, hardened stainless steel

Applications

Milling, wire/die-sinking EDM, laser and automation.

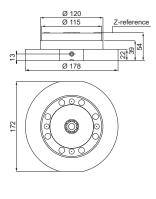
Built-in

Built into machine table or baseplate.



Built-up

Built on machine table.



DelphinCompact built-in chuck C250000

For easy installation in machine tables and baseplates.

DelphinCompact built-in chuck without lift-up C250010

For easy installation in machine tables and baseplates. Specially designed for tower or other applications with lateral loads.

DelphinCompact built-in chuck index C250050

For easy installation in machine tables and baseplates. To be used with single pallet C254810.







DelphinCompact built-up chuck C250310

For mounting directly on machine tables. Mounting holes to be drilled when installing.



DelphinCompact built-up chuck index C250350

For mounting directly on machine tables. Mounting holes to be drilled when installing.



DelphinCompact baseplates (2-fold, 4-fold and 6-fold)

KEY FACTS

- Standardised design
- · Ready for full use in automated solutions
- · Easy adaptation to machinespecific air connections (via AirDisc)
- High clamping force (up to 60 kN with turbo locking)
- Pneumatic opening with 1 mm liftup function (600 kg at 6 bars)

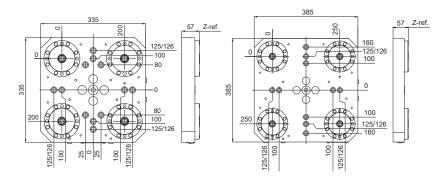
Baseplate ready for Air-Dock and chuck adapter functions. Standardised fixing-hole Standardised compact pattern to fit all standard baseplate design for cc T-slot tables. 200 mm and cc 250 mm. Additional air Ready for the use of sealing connection from frames (recommended for the side (G 1/8") optimal results in automated cells and applications). Standardised air connection interface on the Additional air connection bottom and AirDisc to adapt to machine's from the side (G 1/8"). pneumatic interface. Interface from baseplate to machines interface. Machine-specific AirDisc's available

DelphinCompact baseplates - For automated and manual applications

Technical data

- Clamping force at 6 bars turbo pressure, up to 60 kN
- · Holding force, 240 kN
- Release pressure, 4 30 bars hydraulic or pneumatic
- function, pneumatic, 600 kg at 6 bars (lift-up 1 mm)
- Lift-up function, hydraulic, 4,000 kg at 30 bars (lift-up 1 mm)
- · Repeatability, within 0.003 mm
- · Chuck material, hardened stainless steel
- Baseplate material, tempered steel

DelphinCompact 4-fold baseplates cc 200 mm cc 250 mm



Applications

Milling, laser and automation.

DelphinCompact 4-fold baseplates with 4 sealing rings

Supplied without AirDisc, but with 2 fittings for side connection.

S252201

• cc 200 mm

S252251

• cc 250 mm



Applications

Also suitable for die-sinking

DelphinCompact 4-fold baseplates with sealing frame

Supplied without AirDisc, but with 2 fittings for side connection.

S252202

• cc 200 mm

S252252

• cc 250 mm



DelphinCompact 4-fold baseplates with sealing frame with AirDock valves

Supplied without AirDisc. Suitable for chuck adapter pallets.

S252203

• cc 200 mm \$252253

• cc 250 mm



DelphinCompact 6-fold baseplates with 6 sealing rings with AirDock valves

Supplied without AirDisc \$252351

• cc 250 mm



Delphin - accessories

DelphinCompact 2-fold baseplates

(delivered without AirDisc; 2 fittings for side connection)

S252101

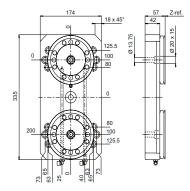
• cc 200 mm

S252151

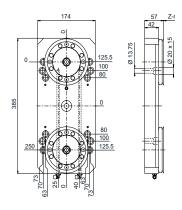
• cc 250 mm



2-fold baseplate, cc 200 mm Supplied without AirDisc.



2-fold baseplate, cc 250 mm Supplied without AirDisc.



Delphin load and wash station

Supplied without AirDisc, but with 2 fittings for side connection.

S252204

• cc 200 mm

S252254

• cc 250 mm



AirDisc C253XXX

Can be designed for any machine-specific interface on request.



Chuck sealing ring C254090

Recommended only where DelphinCompact and DelphinClassic are used manually.



DelphinCompact sealing frames C252210

For baseplate C252200.

• cc 200 mm

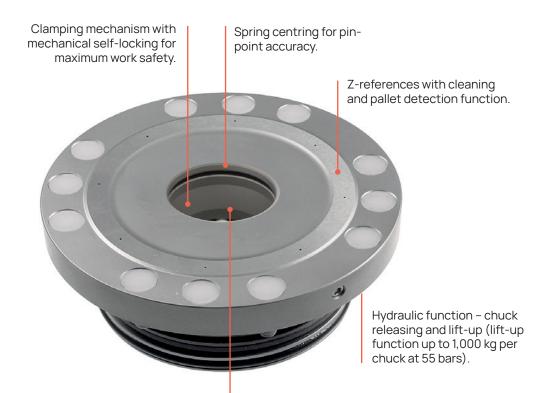
C252260

For baseplate C252250.

• cc 250 mm



DelphinHCP chuck



KEY FACTS

- Very compact design (outer diameter 95 mm)
- Chuck front, hardened stainless steel; other components, hardened steel
- For use in milling, EDM, turning and grinding processes
- High clamping force (up to 15 kN)
- Hydraulic opening with lift-up function up to 1,000 kg per chuck at 55 bars

Full application compatibility (uses the same drawbars as previous Delphin chuck types).

Technical data

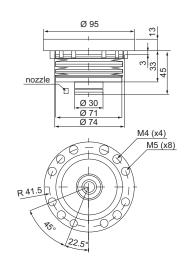
- Clamping with cup springs and self-locking mechanism
- Clamping force 15,000 N
- Holding force, 60,000 N
- Pressure control and cleaning, 6 bars
- · Lift-off during unclamping, 1 mm
- Releasing hydraulic pressure, 30 70 bars
- Accuracy, 3 µm
- chuck front, hardened stainless steel; other components, hardened steel

DelphinHCP hydraulic built-in chuck C220000

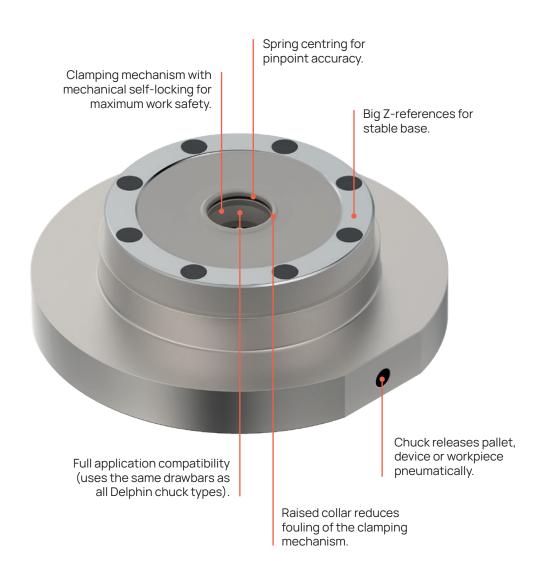
For easy installation in machine tables and baseplates.

• Outer diameter, 95 mm





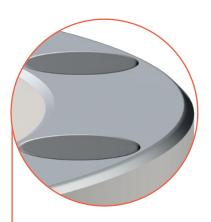
DelphinClassic chuck



KEY FACTS

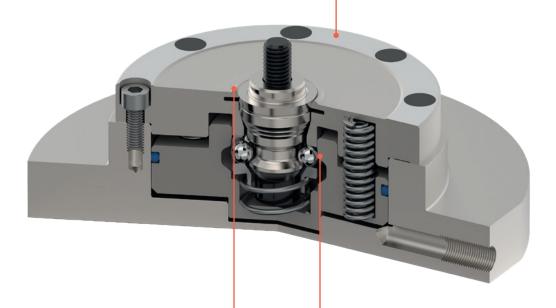
- Very compact design (outer diameter 115 mm)
- Stainless steel (used for milling, EDM, wire EDM, turning and grinding processes)
- High clamping force (up to 10 kN)

DelphinClassic chuck



LARGE Z-SUPPORT

Large and precision-ground contact surfaces for the best possible support and maximum rigidity.



CENTRING

Conical spring centring for absolutely zero play between drawbar and chuck. This ensures the highest possible repeatability, excellent rigidity and less vibration.



DIRT INSENSITIVE

A floating ball cage permits larger angular deviation between pallet and chuck during loading and unloading. Additionally, the design is dirt insensitive.

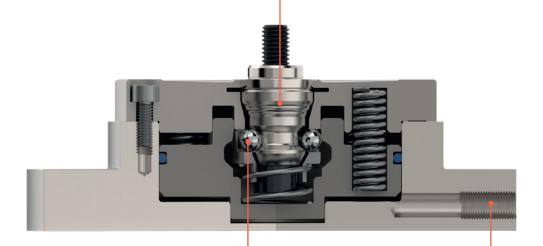


DelphinClassic chuck



HOLDING FORCE

The holding force sets the maximum permissible pull-out force. In turn, this latter force determines safety until the pallet is pulled out of the chuck. Delphin chucks have a minimum holding force of 60 kN.



CLAMPING FORCE / PULL-IN FORCE

The clamping or pull-in force sets how tightly a drawbar is pulled into the system. Together with other features such as centring, it determines system stability and rigidity.



REQUIRED AIR PRESSURE

The DelphinClassic chuck requires 6-bar air pressure to open the chuck and release the drawbar.

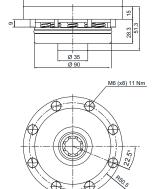
DelphinClassic - For manual applications

Technical data

- Clamping force, 10 kN
- Holding force, 60 kN
- Air pressure open, 6 10 bars
- Oil pressure open, max 30 bars
- Repeatability, within 0.003 mm
- Material, hardened stainless steel

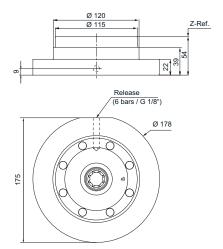
Built-in

Built into machine table or baseplate.



Built-up

Built on machine table



Applications

Milling, wire/die-sinking EDM and laser.

DelphinClassic built-in chuck C272000

For easy installation in machine tables and baseplates.



DelphinClassic built-up chuck C272310

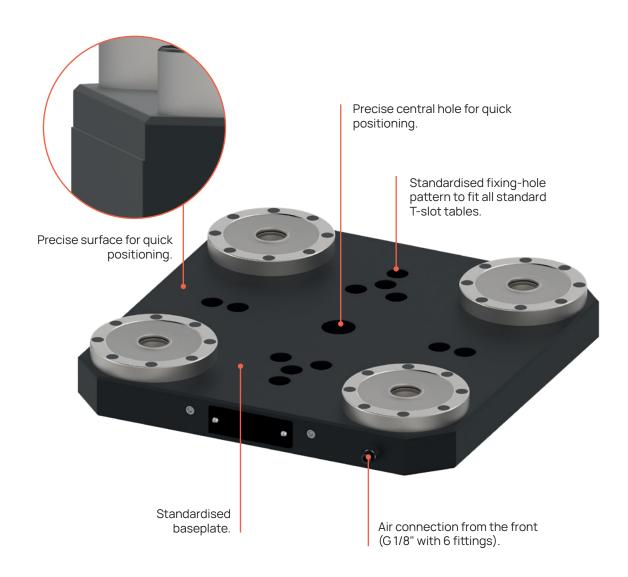
For mounting directly on machine tables. Mounting holes to be drilled when installing.





DelphinClassic baseplate

Our starter baseplate prepares you for the fastest possible pallet, device and workpiece changes. The Delphin baseplate offers maximum flexibility and process reliability throughout the entire production process. High clamping force with maximum accuracy is guaranteed.



KEY FACTS

- High clamping force, up to 40,000 N
- · Pneumatic opening
- Mechanical self-locking for highest process reliability

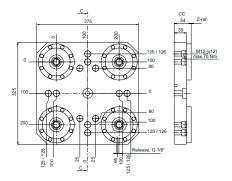
DelphinClassic baseplates - For manual applications

Technical data

- Clamping force, up to 40 kN
- Holding force, 240 kN
- Release pressure, 6 10 bars
- Repeatability, within 0.003 mm
- Material, hardened stainless steel and hard anodised aluminium

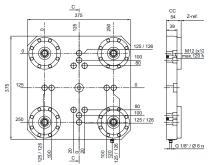
4-fold baseplate, cc 200 mm

Supplied without AirDisc.



4-fold baseplate, cc 250 mm

Supplied without AirDisc.



Applications

Milling and laser.





DelphinClassic 4-fold baseplates

Has 1 fitting for side connection.

C272200

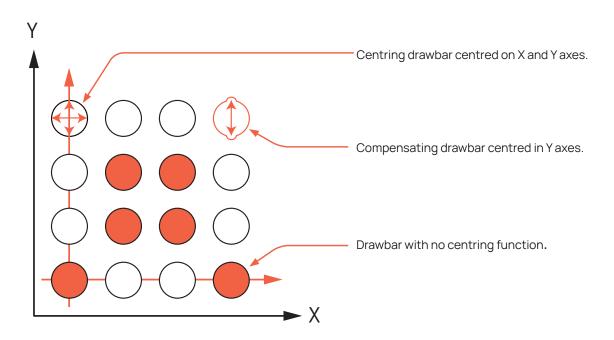
• cc 200 mm

C272250

• cc 250 mm

Delphin drawbars

Drawbars are mounted directly into a workpiece, pallet or fixture. There are three different types of drawbars. One type defines the zero point and thus centres in 2 axes. Another drawbar type centres in one axis only. All other drawbars have no centring function. They are solely for clamping.





Delphin drawbars

Delphin 2 axes-centring drawbar C282000

Fixed in pallet.

- · Material, stainless steel (hardened and ground)
- Dimensions (screwed in), Ø 28 x 40.5 mm



Delphin 1 axis-centring drawbar C282100

Fixed in pallet.

- Material, stainless steel (hardened and ground)
- Dimensions (screwed in), Ø 28 x 40.5 mm



Delphin no-centring drawbar C282200

Fixed in pallet.

- Material, stainless steel (hardened and ground)
- Dimensions (screwed in), Ø 28 x 40.5 mm

Delphin drawbar function

centring on 2 axes

centring on 1 axis

on centring

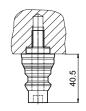








no grooves



fixed in pallet

Drawbar sets

2-drawbar set S812000

Set comprises:

1xC282000 (centring on 2 axes)

1x C282100 (centring on 1 axis)





4-drawbar set S812100

Set comprises:

1x C282000 (centring on 2 axes)

1 x C282100 (centring on 1 axis)

2 x C282200 (no centring)



6-drawbar set S812200

Set comprises:

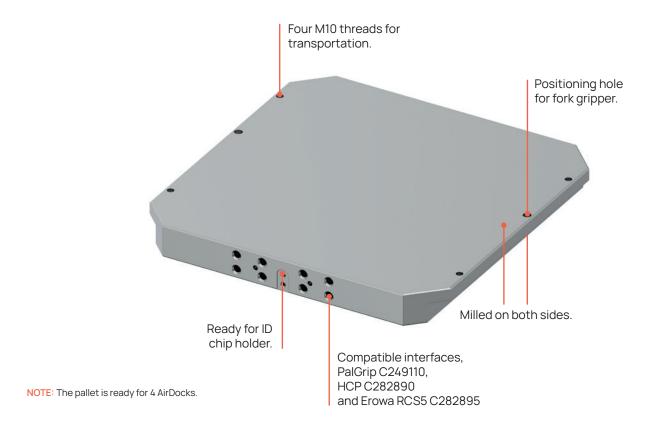
1x C282000 (centring on 2 axes)

1x C282100 (centring on 1 axis)

4 x C282200 (no centring)



Delphin pallets

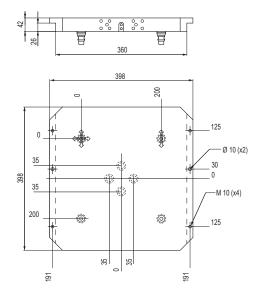


Delphin 4-drawbar pallet C282820

- Automation ready
- Material, aluminium
- Parallelism, 0.04 mm
- 4 ready-assembled drawbars

Pallet set S282820

• C282820 supplied as a set of 5

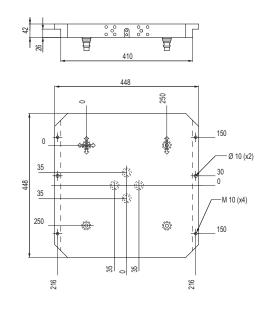


Delphin 4-drawbar pallet C282830

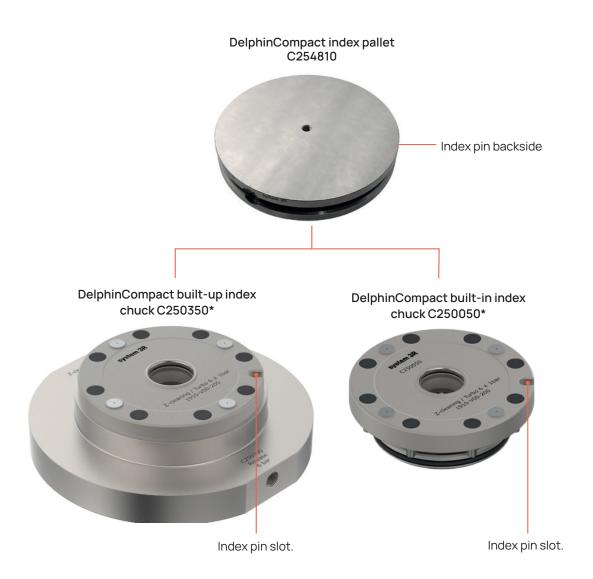
- Automation ready
- Material, aluminium
- Parallelism, 0.04 mm
- 4 ready-assembled drawbars

Pallet set S282830

• C282830 supplied as a set of 5



DelphinCompact index Single chuck and pallet application



POSITIONING ACCURACY

- Centre repeatability, within 0.003 mm
- Angle repeatability, within 0.020 mm per 100 mm.

NOTE: For flexibility, an index chuck can be integrated into a baseplate so that it is possible to work with a single pallet.

* Delphin HT chucks are also available for use in hightemperature environments.

Delphin accessories

Chuck-side AirDock valve S254000

Needed to build chuck adapter baseplates. Suitable for vacuum applications and pressures up to 8 bars.

· Set of 2

Pallet-side AirDock valve S254010

Needed to build chuck adapter pallets. Suitable for vacuum applications and pressures up to 8 bars.

Set of 2









OilDock valves chuck-side, S254060

Needed to build chuck adapter baseplates. Thanks to the sealed design, cooling water cannot penetrate.

Suitable for hydraulic pressures up to 200 bars.

· Set of 2





OilDock valves pallet-side, S254070

Needed to build chuck adapter pallets.
Thanks to the sealed design, cooling water cannot penetrate

Suitable for hydraulic pressures up to 200 bars.

· Set of 2



Spare parts

For Delphin chucks. Includes O-rings, compression springs or disc springs, balls, screws, screw cover and assembly tool.

Table chuck type item no.

DelphinClassic S272000 DelphinCompact S250000 HCP S840040 **HSP** S840000 HHP S840010 HHPA S840060 PSP S840030 PHP S840020 **PHPA** S840050



Delphin accessories

DelphinCompact pneumatic control unit C254950

Control unit especially for DelphinCompact.

• Includes 10 m tube (Ø 6 mm) and 2 fittings



NOTE: Connection fittings (S254050) are needed.

Baseplate connection fittings S254050

To be used when connecting air laterally to the Delphin baseplate.



Pneumatic control unit, C254970

This pneumatic control unit is used for the baseplate.

- · Sliding hand valve
- Connecting fitting G 1/8"
- Coupling



Baseplate fixing accessory sets

For fixing baseplate on machine table.

C289130

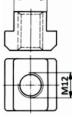
M12x45 cylinder head screws (x6) M12x55 cylinder head screws (x6) M12x14 T-slot nuts (x6)

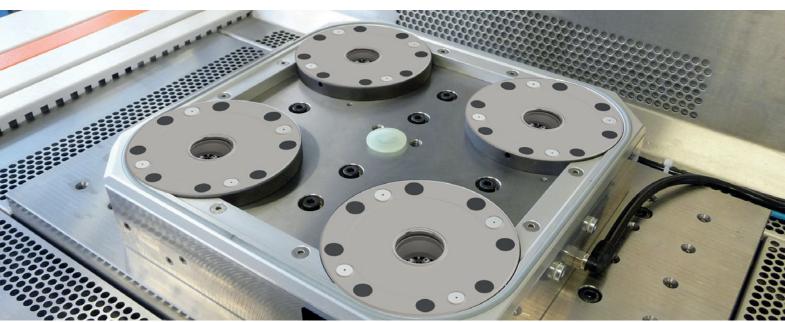


M12x45 cylinder head screws (x6) M12x55 cylinder head screws (x6) M12x18 T-slot nuts (x6









Delphin accessories



Reference mandrel C288170

Alignment aid for chuck installation.

- Material: steel stainless, hardened and ground
- For all chucks

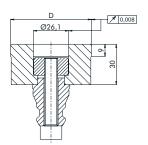
Diameter (D), 110 mm

Delphin protective pallet S254100

Chip and air pressure (turbo locking) protection for DelphinCompact and DelphinClassic chucks.

- · Fits to chuck with sealing ring
- Set comprises: Drawbar C282000 (x1) Protective pallet C266040 (x1).









Protective Drawbar DelphinClassic, C286060

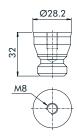
Chip protection for chuck, seals centre bore, Z-support of chuck remains usable.

- Material, plastic
- Dimensions, Ø 28 x 32 mm
- M8 for dismounting



- Sealing cords for most Delphin sealing frames.
- Suitable for, C252210 and C252260
- Length, 4 m







Delphin index pallet and accessories

DelphinCompact index pallet C254810

To be used with single index chuck C250050 or C250350

- Material, hardened steel
- Drawbar C282000 included
- · Weight 4.3 kg



DelphinCompact checking ruler C254800

Reference pallet for index chuck. To be used for aligning built-in and built-up index chucks at installation.

- Suitable for C250050, C250070, C250350 and C370560
- Drawbar included
- Stainless steel (hardened and ground)
- Weight 2.9 kg



Pre-centring pin / Pre-centring bush

Pre-centring for medium to large workpieces. Should always be used wherever possible.

· Stainless steel

C286250

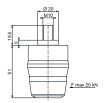
Pre-centring bush for DelphinCompact and DelphinClassic.

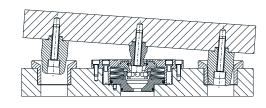
• Aluminium



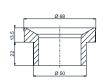
Pre-centring pin for for pallets/devices.





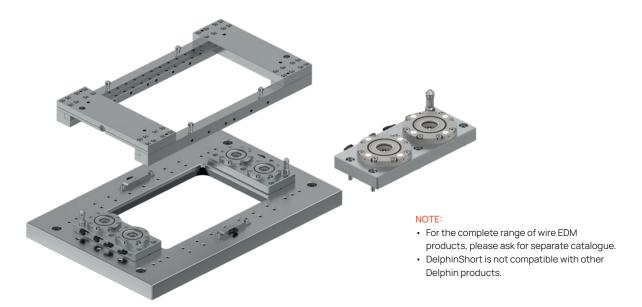








DelphinShort and frames for wire EDM



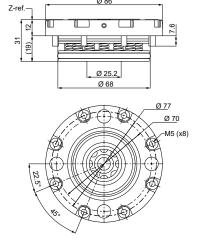
ADVANTAGES

DelphinShort is often the answer when tooling size is an issue. Smaller diameter and lower built-in height are just two of the advantages of DelphinShort tooling. Can be used in many applications besides wire EDM.

DelphinShort built-in chuck C225000

For easy installation in machine tables and baseplates.

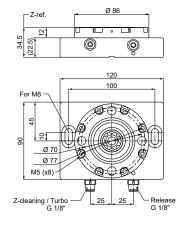




DelphinShort built-up chuck (with wire EDM flange) C225300

For easy installation on wire EDM machine table frames.

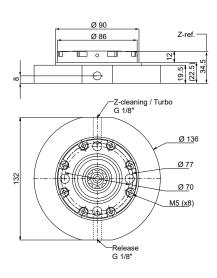




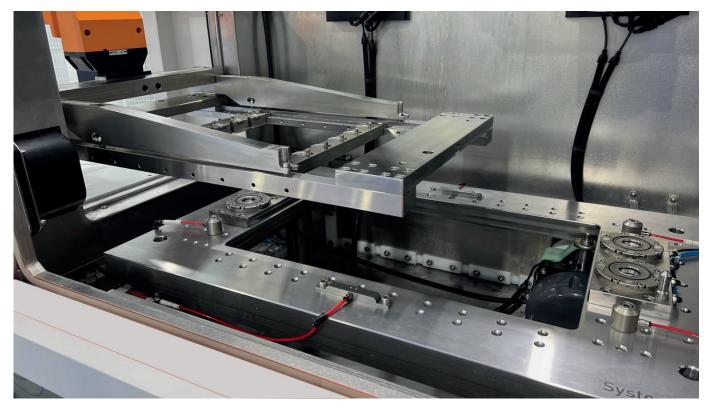
DelphinShort built-up chuck C225310

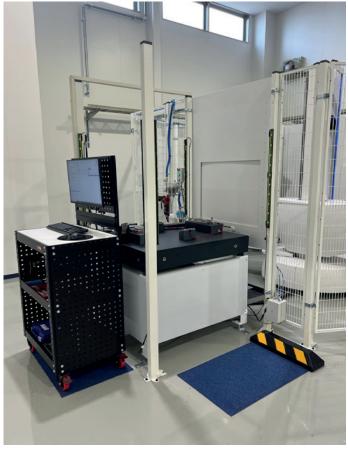
For mounting directly on machine tables. Mounting holes to be drilled when installing.

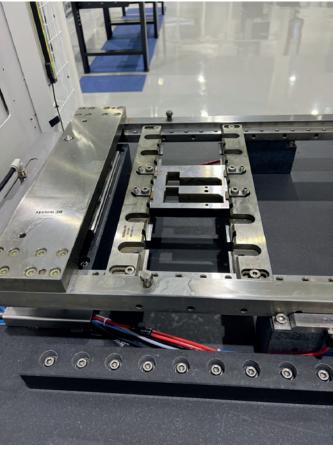




DelphinShort wire EDM frame applications







Stationary automation cell with rack magazine for wire EDM frames.

Coordinate measuring machine (CMM) outside the cell also used as loading station for larger wire EDM frames.

DelphinBIG chuck



KEY FACTS

- Can be used for large workpieces
- High clamping force (up to 50 kN with turbo locking)
- Hydraulic release (with lift-up function of 2,500 kg at 60 bars)
- Simple loading (thanks to integrated pre-centring)
- Workpiece thermal expansion accommodated (up to ± 0.4 mm)

DelphinBIG -For automated and manual applications

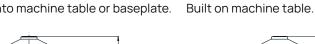
Technical data

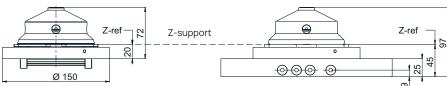
- · Clamping force at 30 bars turbo pressure, up to 50 kN
- · Holding force, 100 kN
- · Oil pressure release, max 30 - 60 bars
- Lift-up function, 2,500 kg, 2 mm at 60 bars release pressure
- Repeatability, within 0.005 mm
- · Material, hardened steel

Applications Milling

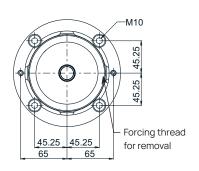
Built-in chuck

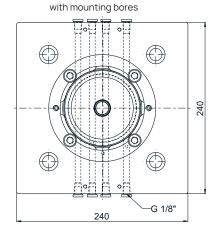
Built into machine table or baseplate.





Built-up chuck





DelphinBIG built-in chuck

For easy installation in machine

C297000

tables.



DelphinBIG built-up chuck C297310

Mounting holes can be made by customer.

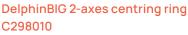
At least 4 chucks per application are recommended.

• Chuck C297000



DelphinBIG spare parts set S850000

For Delphin BIG chucks. Includes O-rings, compression springs or disc springs, balls, screws, screw cover and assembly tool.



Includes fixing.



DelphinBIG 1-axis centring ring C298110

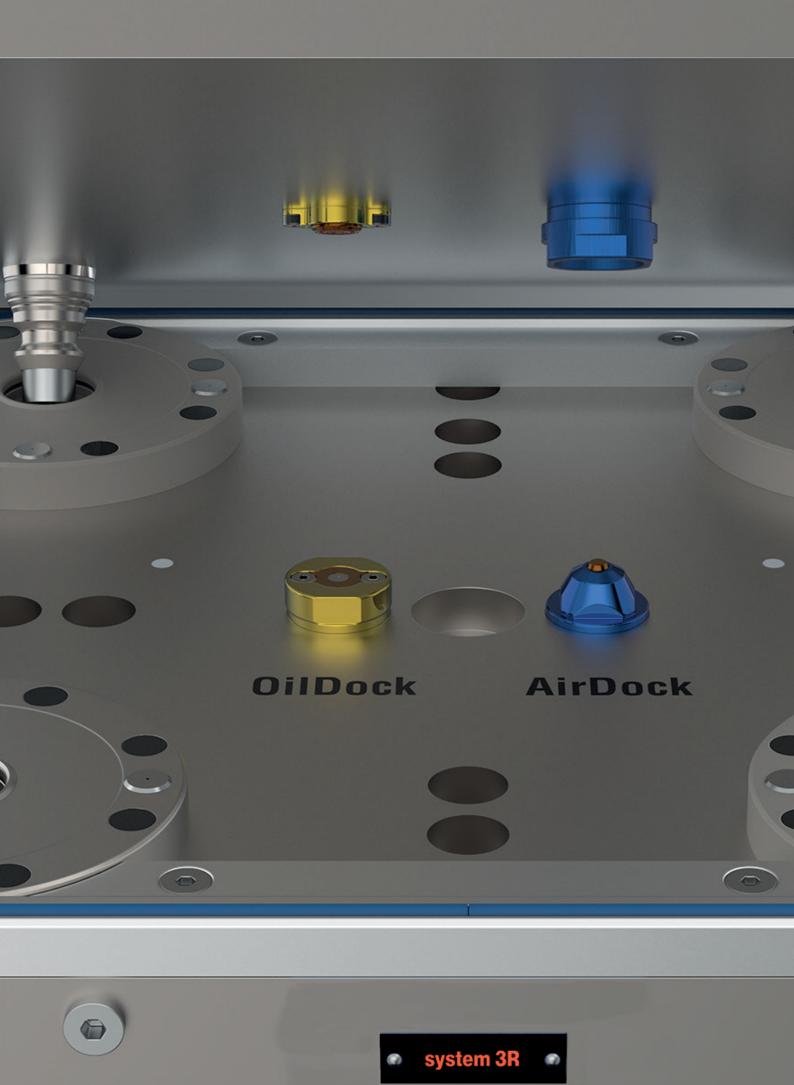
Includes fixing



DelphinBIG no centring ring C298210

Includes fixing





Automation

24/7

Utilise every hour of the day and night!

An automatic production cell can generate revenue round the clock, seven days a week. Why be satisfied with 40 productive machine-hours a week when the same machine can achieve over 100 additional hours a week? Use every hour of the day and night for production!

Boost your productivity and sharpen your competitiveness with our three winners: WorkPal 1, WorkPartner 1+ and Fanuc.

Last, but not least, our winners ensure faster payback on your investments.

For powder press automation solutions, please ask for more information.



WorkPal 1
Modest demands, major benefits.



Automation
With six-axis Fanuc industrial robot.



WorkPartner 1+
Can serve two machines.

WorkShopManager WSM

User-friendly cell-management software

Master workshop complexity and manage all control processes with our software. For manually controlled and automated processes.

- Simplify job preparation
- · Execute jobs easily in manual or automated machines
- · Monitor processes, changes priorities and collect utilisation statistics
- · Use ID chip management to ensure highest process reliability





Sustainability declaration

IMPROVED PRODUCTIVITY

Improve your productivity by: using existing production equipment optimally; and, increasing resource use, e.g. run machines during unmanned hours (nights, weekends, etc.). Instead of outsourcing production and incurring shipping costs, produce in-house 24/7.

By seamlessly integrating advanced technology into your operations, you can execute repetitive tasks with precision and speed, thereby freeing up human resources for higher-value activities. Machines equipped with our automation systems work tirelessly, reducing errors, optimising production schedules and achieving consistent output.

ADVANCED EASE OF OPERATION

Machine automation has improved operation simplicity and revolutionised efficiency and productivity on an industrial scale. With intuitive interfaces and streamlined processes, workers can, with minimal training, quickly adapt and control complex tasks. Automated systems eliminate human error and promote precise execution. Consistent output and reduced downtime are two of the results.

SAFEGUARD OPERATOR HEALTH BY USING ROBOTS IN SELF-CONTAINED ENVIRONMENTS

Machine automation is a highly promising avenue for improving operator health. By taking over physically demanding tasks, our machines reduce the risk of musculoskeletal injuries and fatiguerelated issues.

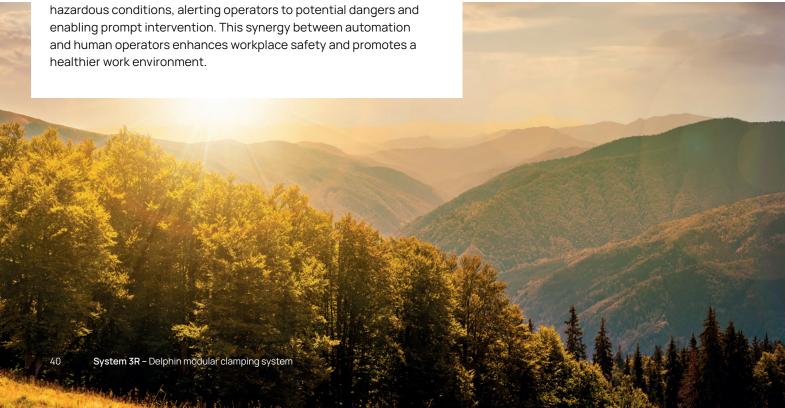
Additionally, advanced sensors and Al algorithms can detect healthier work environment.

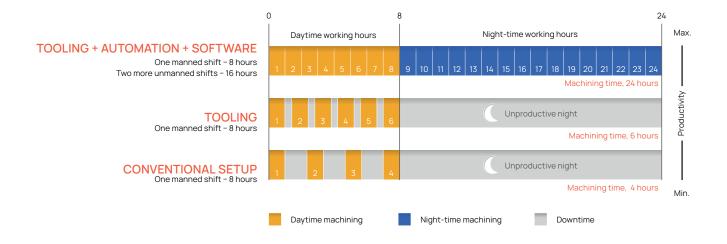
In-house 24/7 production









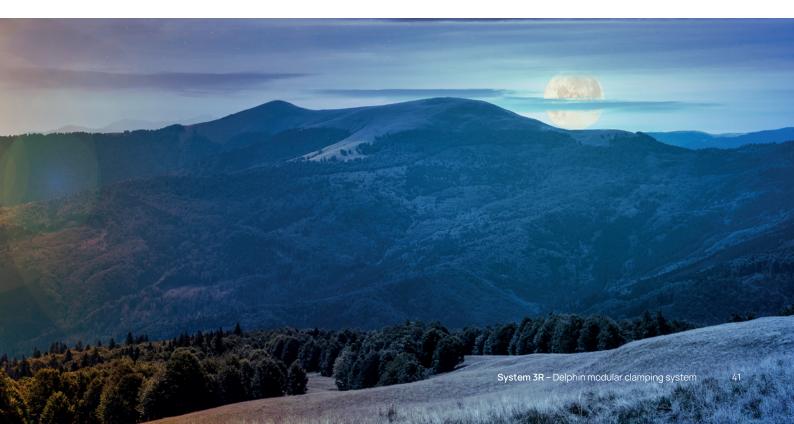




CARBON-NEUTRAL FROM THE VERY START OF MANUFACTURING ALL THE WAY TO RECYCLING AFTER USE

Our automation solutions are manufactured at our CO₂ neutral facility in Vällingby, Sweden. With the ability to self-diagnose and adapt, these solutions extend working lives, reduce maintenance costs and optimise production processes. They can also make optimum use of cheaper electricity supplied outside daily peak hours.

At the end of their service lives, the items of equipment they use can be recycled as metals and standard electronics.



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Work smarter, not harder

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