

Product summary

Complete machining solutions
from a single source



A partnership for the future

At Starrag, we deliver complete machining solutions tailored to our customers' needs. Combining process engineering, automation, machine tools, software, and lifetime support, Starrag helps maximize productivity, precision, and efficiency.

Working closely with our customers, we optimize manufacturing processes, reduce complexity, and create sustainable competitive advantages through industry expertise and innovative technology.

Complete machining solutions. One trusted partner.

Table of contents

Markets	4
Range of machines	6

Horizontal machining centers

Heckert H Series	9
Heckert Large Series	10
SIP 7000 Series	11

Vertical machining centers

SIP 5000 Series	13
-----------------	----

5- and 6-axis machining centers

Heckert X Series	15
Starrag S Series	16
Starrag STC Series	17
Starrag S1250 HD	18

Turn/Mill centers

Bumotec s128 / s181 / s191 / 191 ^{neo} Series	21
Bumotec 171	22
Bumotec s191V	23

Blisk and Blade machining centers

Starrag NB Series	25
Starrag LX Series	26

Aerostructures machining centers

Ecospeed Series	28
-----------------	----

Portal and Gantry machining centers

Droop+Rein FOGS Series	31
Droop+Rein T & TF Series	32
Droop+Rein G Series	33

Vertical turning lathes

Berthiez / Dörries VT Series	35
Dörries VC Series	36
Dörries VC-V Series	37

Vertical grinding machines

Berthiez RVU Series	39
---------------------	----

Transfer machines

Bumotec 1000/C ^{neo}	41
-------------------------------	----

Faceting machines

Bumotec s230	43
--------------	----

Technology

TTL	45
RCS 8 CAM Technology	46
Automation solutions	47
FMS Flexible manufacturing systems	48
Tools	49

Service

ServicePlus	51
Inspection and maintenance	52
Modernization and retrofit	53
Spindle overhauls	54

Always on the pulse of time

Starrag is a global technology leader in manufacturing high-precision machine tools for milling, turning, boring and grinding workpieces of metallic, composite and ceramic materials.

Our key customers are internationally active companies in the Aerospace, Energy, Industrial, Micromechanics and Transportation sectors.

A large commercial airplane engine and landing gear on a runway. The engine is a large, multi-fan turbofan engine, and the landing gear is visible below it. The background shows a cloudy sky and a field.

Aero Engines
Aero Structures

Oil & Gas
Power Turbines
Renewables

Aerospace

Energy



Hydraulics & Pneumatics
Industrial Drives
Job Shops
Machine Parts

Industrial



Luxury Goods
Med Tech
Micro Parts

Micromechanics



Agriculture
Construction & Mining
Passenger Cars & Motorcycles
Railways & Marine
Trucks & Buses

Transportation

From very small to gigantically large –
we have the right machining solution

Bumotec **171**



Heckert **X50**

Berthiez **VT 28**



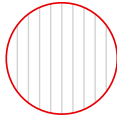
Starrag **STC 1800**



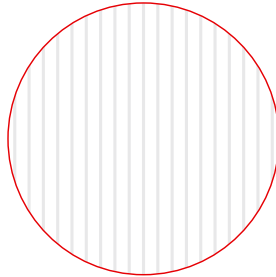
200
x
200



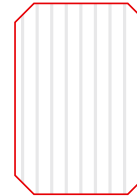
500
x
630



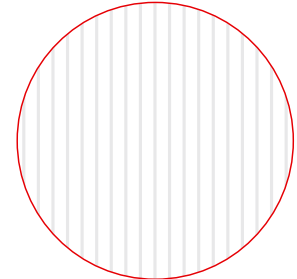
Ø 800



Ø 2500

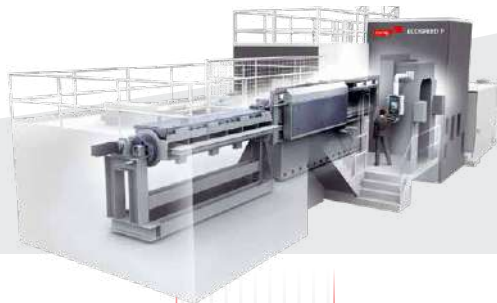


1250
x
1800



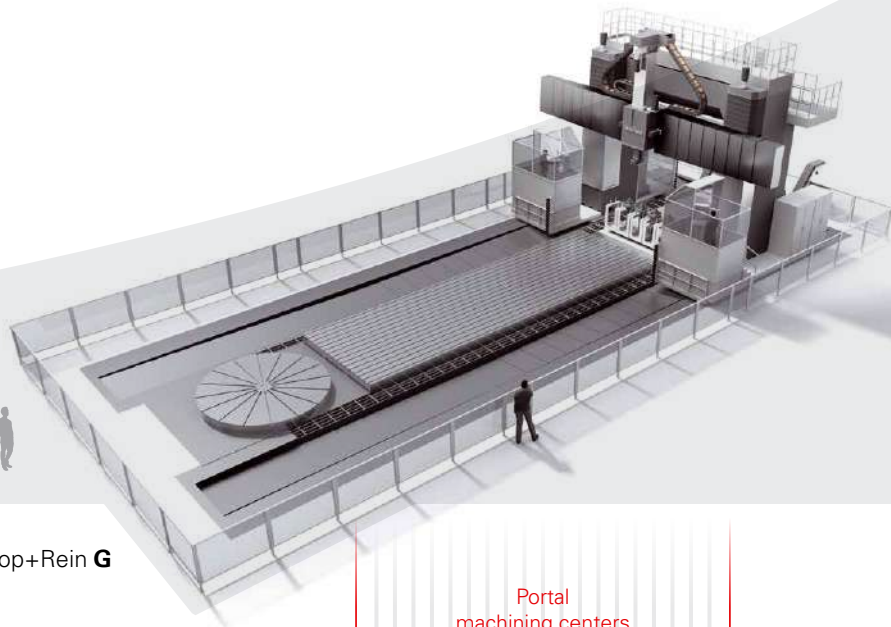
Ø 2500

ECOSPEED F 1540



1500
x
4000

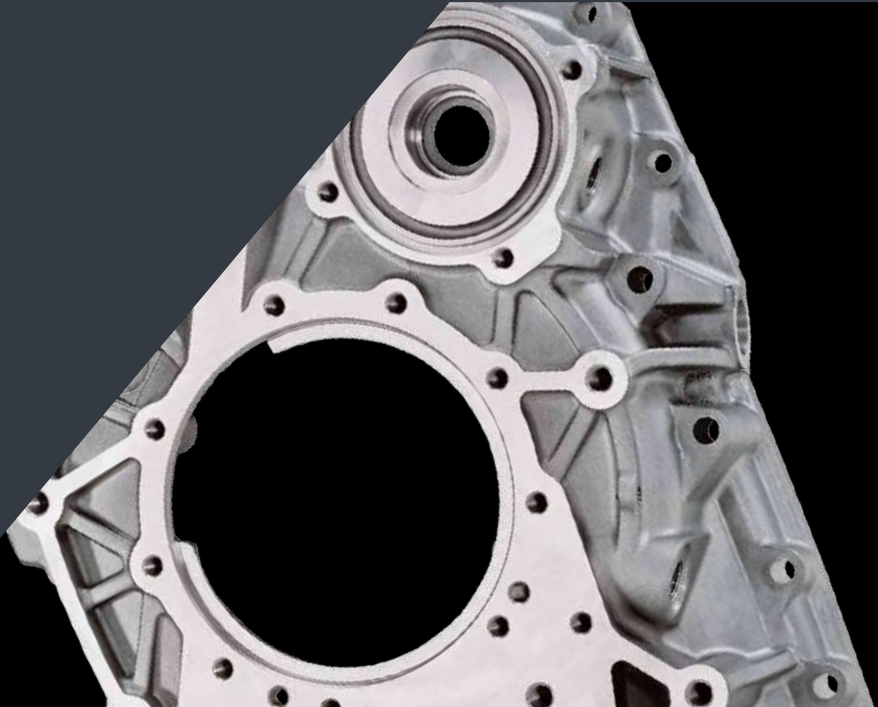
Droop+Rein G



Portal
machining centers

3500
x
30,000

Horizontal machining centers



Heckert H Series

4-axis horizontal machining centers

These 4-axis machining centers are space-saving miracles, but they remain true to our stringent quality standards in every respect.

Technical Data

Pallet dimension	mm	500 × 630 – 1,000 × 1,000
Loading mass	kg	1,500 – 4,000
Part swing	mm	1,000 – 2,000
Pallet dimension	inch	19.7 × 24.8 – 39.4 × 39.4
Loading mass	lbs	3,307 – 8,818
Part swing	inch	39.4 – 78.7
CNC Control		Siemens

Motor
spindles



Gear-driven
spindles



NC-Quill



Facing
head



Milling



Boring



[Learn more](#)



Heckert H70

Heckert H80

Heckert H90

Heckert H100

Heckert Large Series

4-/5-axis machining centers

The flexible and modular-designed Heckert Large Series guarantees optimum results in the economic processing of large-sized and heavy workpieces.

Technical Data

Pallet dimension	mm	800 × 1,000 – 1,250 × 1,800
Loading mass	kg	4,000 – 15,000
Part swing	mm	1,900 – 3,300
Pallet dimension	inch	31.5 × 39.4 – 49 × 71
Loading mass	lbs	8,819 – 33,069
Part swing	inch	75 – 130
CNC Control		Siemens

Motor
spindles



Gear-driven
spindles



NC-Quill



Facing
head



Horizontal/
Vertical head



Swivel
head



Boring



Milling



Turning



[Learn more](#)

Heckert HEC 1000

Heckert HEC 1250

Heckert HEC 1600

Heckert HEC 1800

Heckert HEC 1000 U5

Heckert HEC 1250 U5

Heckert HEC 1600 U5

Heckert HEC 1800 U5



SIP 7000 Series

Ultra-precise horizontal machining centers

The horizontal SIP machining centers are living proof that ultra-precision is by no means a myth.



[Learn more](#)

Technical Data

Pallet dimension	mm	800 – 1,200 × 1,200
Loading mass	kg	1,000 – 4,000
Tool holder		ISO 45
Pallet dimension	inch	31.5 – 47.2 × 47.2
Loading mass	lbs	2,205 – 8,810
Tool holder		ISO 45
CNC Control		Siemens FANUC



Belt driven
spindles



Swivel
table



Milling



Boring



NC-Quill



Vertical machining centers



SIP 5000 Series

Ultra-precise vertical machining centers

SIP 5000/6

SIP 5000/7

The SIP vertical series is a must for all producers of parts with high levels of value creation. It enables ultra-precision positioning and the closest of dimensional tolerances for drilling and milling surfaces.



[Learn more](#)

Technical Data

Pallet dimension	mm	1,200 × 900 – 1,700 × 1,200
Loading mass	kg	2,500 – 4,000
Tool holder		HSK-A100/ISO 50
Pallet dimension	inch	47.2 × 35 – 67 × 47
Loading mass	lbs	5,512 – 8,818
Tool holder		HSK-A100/ISO 50
CNC Control		Siemens FANUC



Belt driven
spindles



Swivel
table



Milling



Boring



5- and 6-axis machining centers



Heckert X Series

5-axis machining centers

Not only are these machining centers space-saving, they guarantee maximum precision for your work processes thanks to their guiding values of accuracy and rigidity.



[Learn more](#)

Heckert X50

Heckert X70

Heckert X80

Heckert X90

Technical Data

Pallet dimension	mm	500 × 630 – 800 × 1,000
Loading mass	kg	700 – 2,000
Part swing	mm	900 – 1,600
Pallet dimension	inch	19.6 × 24.8 – 31.5 × 39.4
Loading mass	lbs	1,543 – 4,409
Part swing	inch	35.4 – 63.0
CNC Control		Siemens

Motor
spindles



Gear-driven
spindles



Facing
head



Swivel
table



Milling



Turning



Boring



Skiving



NC-Quill



Starrag S Series

5-axis machining centers

Starrag S90

Starrag S100

The medium-sized 5-axis machining center guarantees maximum efficiency, high machining quality and reliability. The compact machining centers are perfect for a wide range of applications in the metalworking industry.



[Learn more](#)

Technical Data

Pallet dimension	mm	800 × 1,000 – 1,000 × 1,000
Loading mass	kg	2,500 – 4,000
Part swing	mm	1,400 – 2,000
Pallet dimension	inch	31.5 × 39.4 – 39.4 × 39.4
Loading mass	lbs	5,511 – 8,818
Part swing	inch	55.1 – 78.7
CNC Control		Siemens

Motor
spindles



Gear-driven
spindles



Horizontal
fork head



Milling



Turning



Skiving



Boring



Starrag STC Series

Simultaneous 5-/6-axis machining centers

The STC series has been designed to provide unrivalled economy in machining the most demanding structural parts, multi-blades and casings with long cycle times, while also offering you a whole host of practical options.



[Learn more](#)

Starrag STC 800
Starrag STC 1000
Starrag STC 1250
Starrag STC 1600
Starrag STC 1800

Technical Data

Pallet size	mm	800 × 800 – 1,600 × 1,800
Power	kW	80 – 120
Torque	Nm	82 – 1,300
Pallet size	inch	31.5 × 31.5 – 63 × 71
Power	hp	107 – 161
Torque	lbf-ft	60.5 – 958.8
CNC Control		Siemens



Motor
spindles



Gear-driven
spindles



Horizontal
fork head



AC-head



Milling



Mill-/Turn-
Option



Grinding



Starrag S1250 HD

Hydrostatic 5-/6-axis machining centers

Starrag S1250 HD

With torques of up to 25,000 Nm in the table and 12,000 Nm in the head, the S1250 HD is designed for uncompromising high-performance machining and offers unrivalled economy when machining demanding materials such as titanium alloys (Ti6AL4V, Ti5553), nickel-based super-alloys and other high-alloy steels.

NEW WORLD RECORD
in machining titanium



Watch the World
Record Video

Technical Data

Pallet size	mm	1,000 × 1,250
Workpiece size	mm	2,200 × 1,950
Torque	Nm	600 – 1,600
Guideway		hydrostatic
Pallet size	inch	39.4 × 49
Workpiece size	inch	87 × 77
Torque	lbf-ft	442.5 – 1,180
Guideway		hydrostatic
CNC Control		Siemens

Gear-driven
spindles



Horizontal
fork head



AC-head

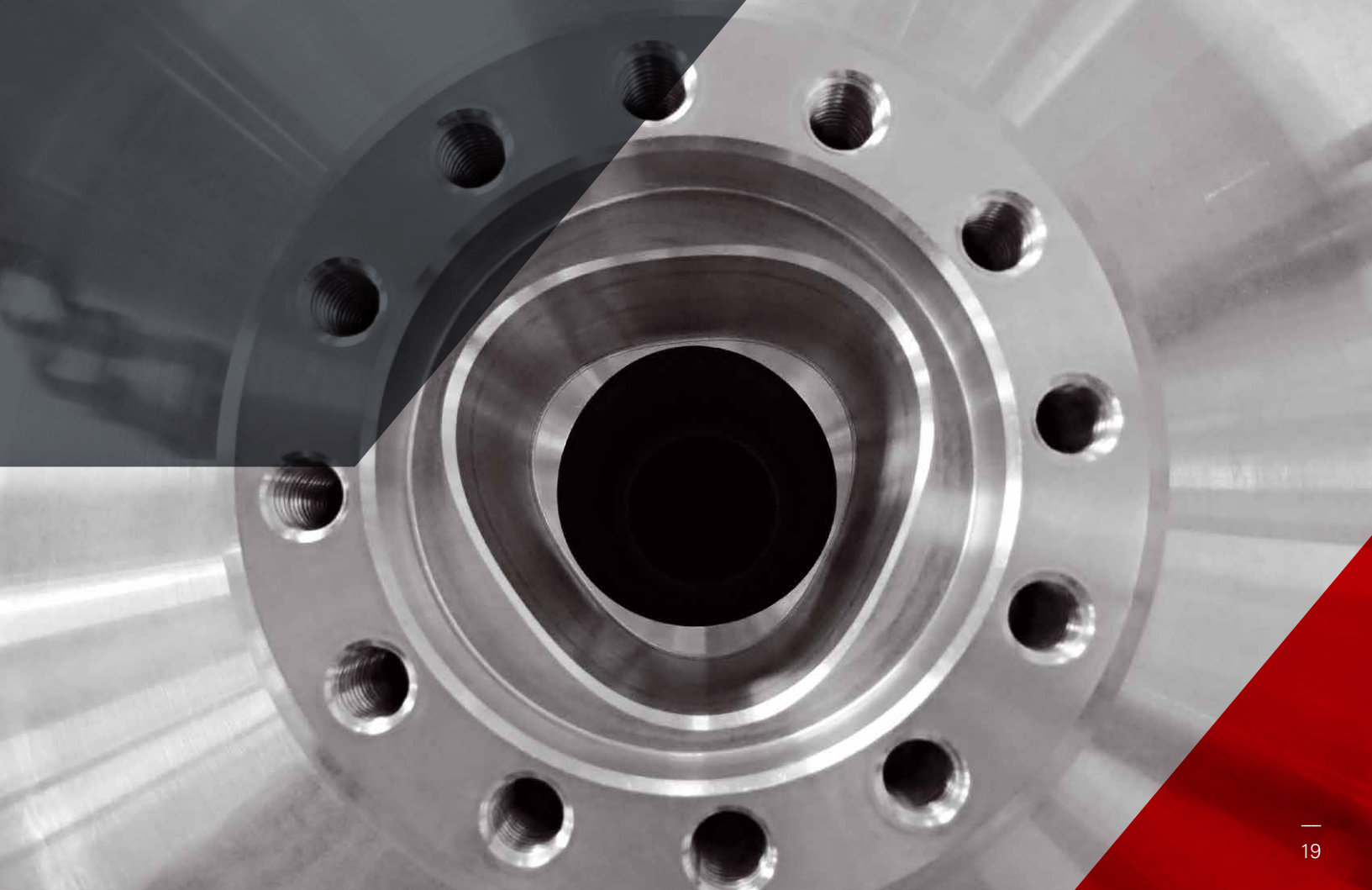


Milling



Mill-/Turn-
Option





Turn/Mill centers



Bumotec s128/s181/s191/191^{neo} Series

High-precision multi-task production center

Extremely stable during production with minimal operator intervention, the 191^{neo} offers a formidable level of productivity. Its responsive tool change, the high torque of the Starrag milling spindle, and its thermal signature inherited from the original s191 model, ensure it maintains the programmed production rate and obtains a high finish quality, regardless of the material and complexity of the part to be machined.



[Learn more](#)

Bumotec s128
Bumotec s181
Bumotec s191
Bumotec 191^{neo}

Technical Data

Bar capacity	mm	5 – 65 mm
Tool holder		SKI-20, HSK-A40, HSK-E40
Spindle speed	rpm	30,000 – 50,000
Bar capacity	inch	0.2 – 2.6
Tool holder		SKI-20, HSK-A40, HSK-E40
Spindle speed	rpm	30,000 – 50,000
CNC Control		FANUC



Motor
spindles



Swivel head



Counter
spindle



Milling



Turn-/Mill-
Option



Bar feeder



Bumotec 171

High-precision machining center

Bumotec 171

The new Bumotec 171 machining center offers a solution that addresses the real expectations of manufacturers: more performance, more productivity, and greater profitability, with less complexity, lower resource consumption, and a smaller footprint.

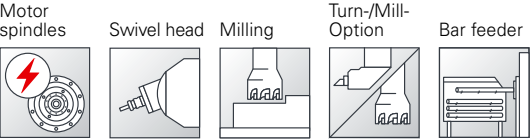


Learn more

NEW
Sept. 2026

Technical Data

Power S1 – S6	kW	15.5 / 11
Torque S1 – S6	Nm	18 / 40
Max. milling speed	°/min	90,000
Bar capacity	mm	32
Power S1 – S6	hp	20.8 / 14.8
Torque S1 – S6	lb-ft	13.3 / 29.5
Max. milling speed	min	90,000
Bar capacity	inch	1.260
Machining spindle		
Max. speed	rpm	30,000 (40,000 optional)
CNC Control		FANUC



Bumotec s191V

Bumotec s191V

Vertical machining center

With the CNC Bumotec s191V mill-turn center, precise and complex components can be produced via 5-axis machining. Thanks to its stable mechanical concept and its linear drive technology, accuracies of just a few microns can be achieved.



[Learn more](#)

Technical Data

Main power	kW	8 – 13
Torque	Nm	9.5 – 12.5
Max. bar diameter	mm	36
Spindle speed	rpm	30,000 – 40,000
Table size	mm	500 × 300
Main power	hp	11 – 17
Torque	lbf-ft	7 – 9
Max. bar diameter	inch	1.5
Spindle speed	rpm	30,000 – 40,000
Table size	inch	19.6 × 11.8
CNC Control		FANUC

Motor spindles



Swivel head



Counter spindle



Milling



Turn-/Mill-Option



Bar feeder



Blisk and Blade machining centers



Starrag NB Series

Starrag NB 151

5-axis Blisk machining centers

No matter if it is called a «Blisk» (bladed disk) or an «IBR» (integrally bladed rotor), no matter if it is single stage or multi stage, Starrag's dedicated machine concept of the NB 151 with the significantly stiffer HSK-T100 interface provides the best solution for efficient machining of these parts.



[Learn more](#)

Technical Data

Max. Blisk diameter	mm	620
Power	kW	58
Torque	Nm	181
Max. Blisk diameter	inch	24.4
Power	hp	78
Torque	lbf-ft	133.5
CNC Control		Siemens

Motor
spindles



Milling



Mill-/Turn-
Option



Starrag LX Series

5-axis turbine blade machining centers

The LX series was specifically designed for the high-precision, efficient 5-axis machining of turbine blades with our in-house expertise in the prototype and series production of turbine blades.



[Learn more](#)

Starrag LX 021
Starrag LX 051
Starrag LX 151
Starrag LX 251
Starrag LX 351

Technical Data

Power	kW	21 – 58
Swing diameter	mm	200 – 650
Distance between centers	mm	400 – 1,805
Power	hp	28 – 78
Swing diameter	inch	8 – 25.6
Distance between centers	inch	15.8 – 71
CNC Control		Siemens



Motor
spindles



Swivel
head



Milling



Mill-/Turn-
Option

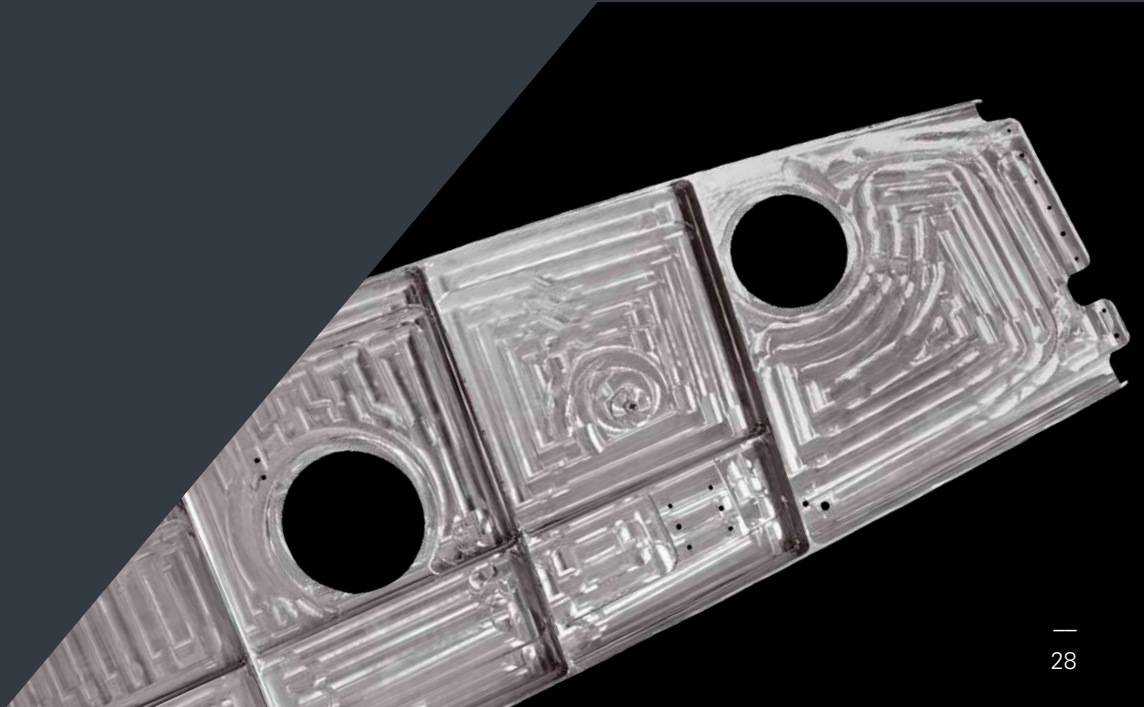


Bar feeder





Aerostructures machining centers



Ecospeed Series

Simultaneous 5-axis hpc machining centers

Ecospeed is the synonym for the most economic method of machining complex aluminium structural components in the aerospace industry. Based around the unique parallel kinematics of the Sprint Z3 machining head, Ecospeed represents by far the most productive solution for the high-performance cutting of monolithic aluminium aerostructures.



[Learn more](#)

Ecospeed F 1540
Ecospeed F 2040
Ecospeed F 2540
Ecospeed F 2060
Ecospeed F 2560

Technical Data

Pallet size	mm	1,500 × 4,000 – 2,500 × 6,000
Table load	kg	3,000 – 6,000
Spindle	kW	120
Pallet size	inch	59 × 157.5 – 98.5 × 236
Table load	lbs	6,614 – 13,228
Spindle	hp	161
CNC Control		Siemens

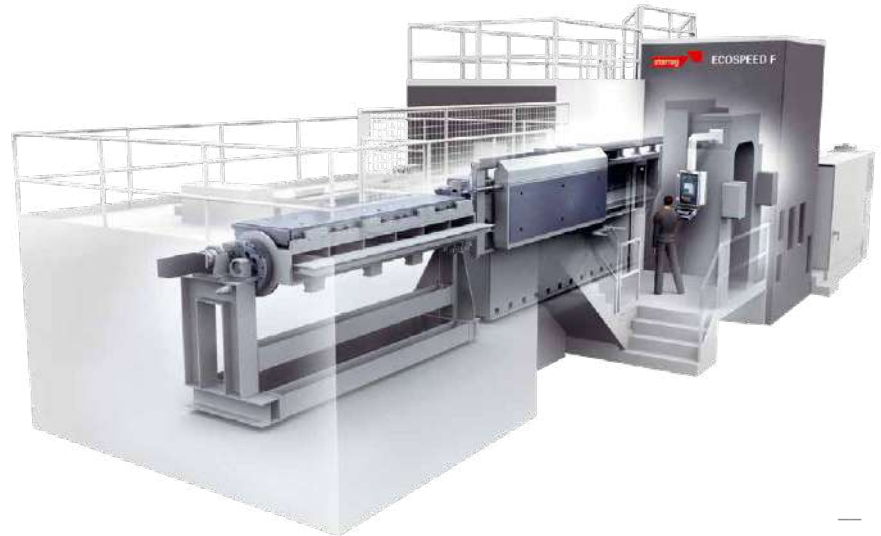
Motor
spindles



Parallel
kinematic



Milling



Portal and Gantry machining centers



Droop+Rein FOGS Series

High-speed machining centers

With the FOGS NEO, Droop+Rein has developed a high-performance machine concept for demanding machining operations. The performance spectrum ranges from the machining of standard geometries, pre-finishing of a contour through to final finishing and ultra precision machining of complex shapes. The hydrostatic FOGS HD version expands the machining spectrum to include heavy-duty machining whilst maintaining consistently high dynamics.

Droop+Rein FOGS NEO

Droop+Rein FOGS HD



Learn more

Technical Data

Table dimension length	mm	2,000 – 30,000 + 1,000 steps
Table dimension width	mm	2,000 – 6,000 + 500 steps
Torque	Nm	700 – 1,800 (– 2,400 – 7,500)
Power	kW	40 – (50 – 100)
Table dimension length	inch	79 – 1,181 + 39.4 steps
Table dimension width	inch	79 – 236 + 19.7 steps
Torque	lbf-ft	516 – 1,328 (– 1,770 – 5,532)
Power	hp	54 – (67 – 134)
CNC Control		Siemens SINUMERIK ONE

Motor
spindles



Gear-driven
spindles



Fork head



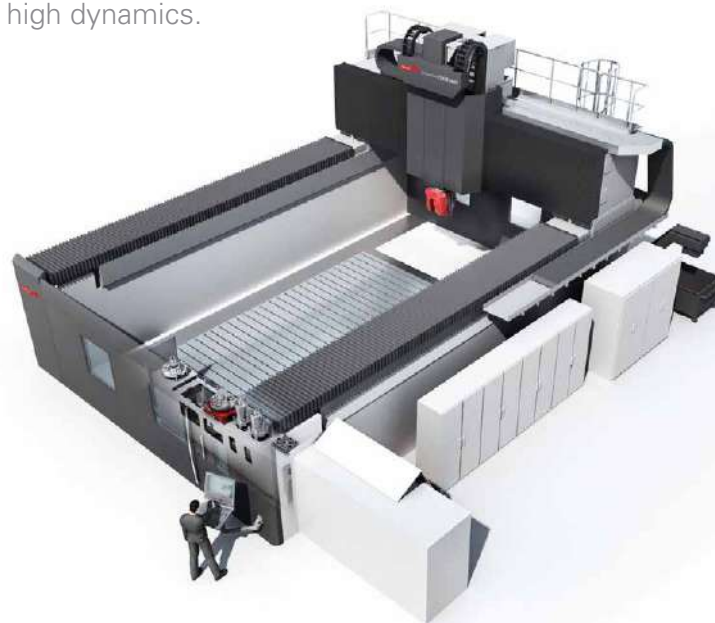
Auto. head
change



Milling



Mill-/Turn-
Option



Droop+Rein T & TF Series

Portal machining centers

The versatile moving table machines designed and built by Droop+Rein have one thing in common: Unmatched rigidity in their power class combined with highest flexibility in size and configuration.



[Learn more](#)

Technical Data

Table dimension length	mm	2,000 – 10,000 + 1,000 steps
Table dimension width	mm	2,000 – 6,000 + 500 steps
Torque	Nm	700 – 1,800 (–2,400 – 10,000)
Power	kW	40 – (50 – 150)
Table dimension length	inch	79 – 394 + 39.4 steps
Table dimension width	inch	79 – 236 + 19.7 steps
Torque	lbf-ft	516 – 1,328 (–1,770 – 5,532)
Power	hp	54 – (67 – 134)
CNC Control		Siemens



Motor
spindles



Gear-driven
spindles



Fork head



Auto. head
change



Milling



Mill-/Turn-
Option



Droop+Rein G Series

Gantry machining centers

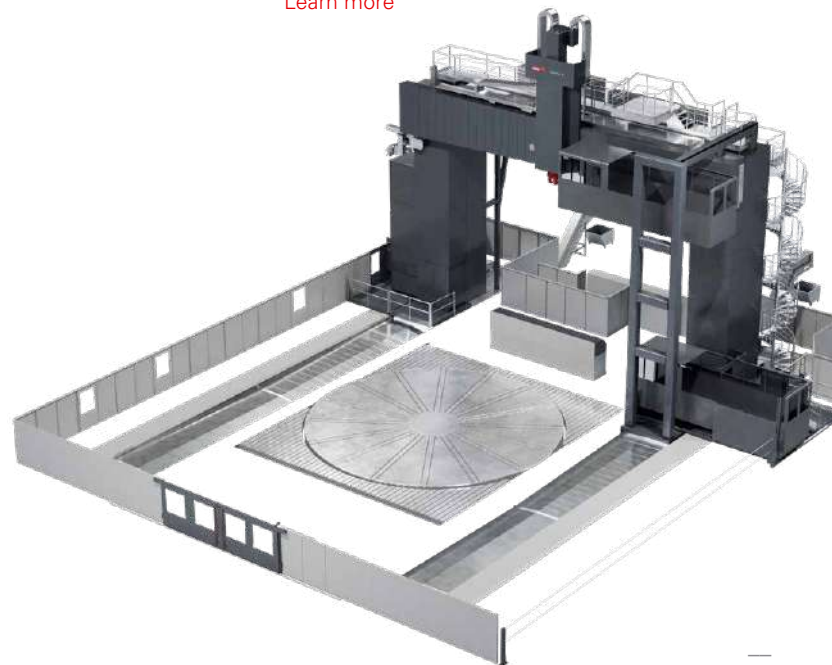
For machining of large and heavy workpieces, Droop+Rein offers a floor-guided gantry machine series. Best accessibility and utilisation of floor space for large workpieces combined with highest flexibility in size and configuration.



Learn more

Technical Data

Table dimension length	mm	3,000–30,000 + 1,000 steps
Table dimension width	mm	2,000–9,000 + 500 steps
Torque	Nm	2,400–12,000
Power	kW	50–150
Table dimension length	inch	118–1,181 + 39 steps
Table dimension width	inch	79–354 + 19.7 steps
Torque	lbf-ft	1,770–8,851
Power	hp	67–201
CNC Control		Siemens



Motor
spindles



Gear-driven
spindles



Fork head



Auto. head
change



Milling



Mill-/Turn-
Option



Vertical turning lathes



Berthiez / Dörries VT

Vertical lathes

A state-of-the-art drive technology for demanding applications in the energy sector and general mechanical engineering. A special configuration enables the efficient machining of engine components. The use of machining units and robot solutions underlines the multifunctional approach of this vertical turning machining center.



[Learn more](#)

Berthiez VT 14

Berthiez VT 20

Berthiez VT 28

Dörries VT 14

Dörries VT 20

Dörries VT 28

Technical Data

Swing diameter	mm	1,400 – 2,800
Drive power	kW	51 – 98
Table load	kg	3,500 – 17,000
Turning height	mm	max. 2,650
Swing diameter	inch	55 – 110
Drive power	hp	68.4 – 131.4
Table load	lbs	7,716 – 37,478
Turning height	inch	max. 104
CNC Control		Siemens

Motor
spindles



Fork head



Auto. head
change



Turning



Milling



Boring



Grinding



Dörries VC Series

Double column vertical lathes

The VC portal design ensures high inherent stiffness while the cast iron construction provides good damping and thermal stability with excellent life time precision – even on heavy workpieces with up to 350 tons.

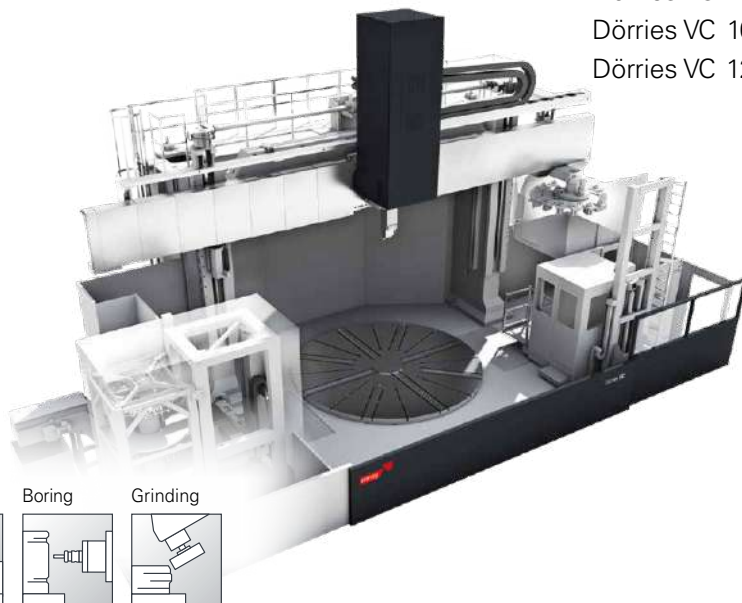
Technical Data

Swing diameter	mm	3,500 – 12,000
Drive power	kW	120 – 272
Table load	kg	25,000 – 350,000
Turning height	mm	3,000 – 10,000
Swing diameter	inch	138 – 472
Drive power	hp	160 – 365
Table load	lbs	55,115 – 771,618
Turning height	inch	118 – 394
CNC Control		Siemens



[Learn more](#)

Dörries VC	3500
Dörries VC	4000
Dörries VC	4500
Dörries VC	5000
Dörries VC	6000
Dörries VC	7000
Dörries VC	8000
Dörries VC	9000
Dörries VC	10000
Dörries VC	12000



Motor
spindles



Gear-driven
spindles



Fork head



Auto. head
change



Turning



Milling



Boring



Grinding



Dörries VC-V Series

Double column vertical lathes with linear table axis

With the addition of a moving table, traversing through the double column portal design of the VC series, the VC-V provides the ultimate flexibility for machining large components. In addition to the "on center" machining capability of a standard lathe, the VC-V machines are able to machine eccentric features.

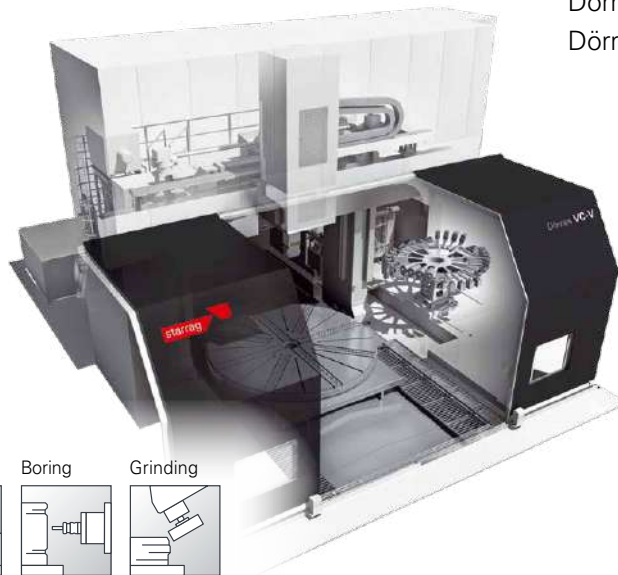


[Learn more](#)

Dörries VC	3500 V
Dörries VC	4000 V
Dörries VC	4500 V
Dörries VC	5000 V
Dörries VC	6000 V
Dörries VC	7000 V
Dörries VC	8000 V
Dörries VC	9000 V
Dörries VC	10000 V
Dörries VC	12000 V

Technical Data

Swing diameter	mm	3,500 – 12,000
Drive power	kW	120 – 272
Table Load	kg	25,000 – 350,000
Turning height	mm	3,000 – 10,000
Swing diameter	inch	138 – 472
Drive power	hp	160 – 365
Table load	lbs	55,115 – 771,618
Turning height	inch	118 – 394
CNC Control		Siemens



Motor
spindles



Gear-driven
spindles



Fork head



Auto. head
change



Turning



Milling



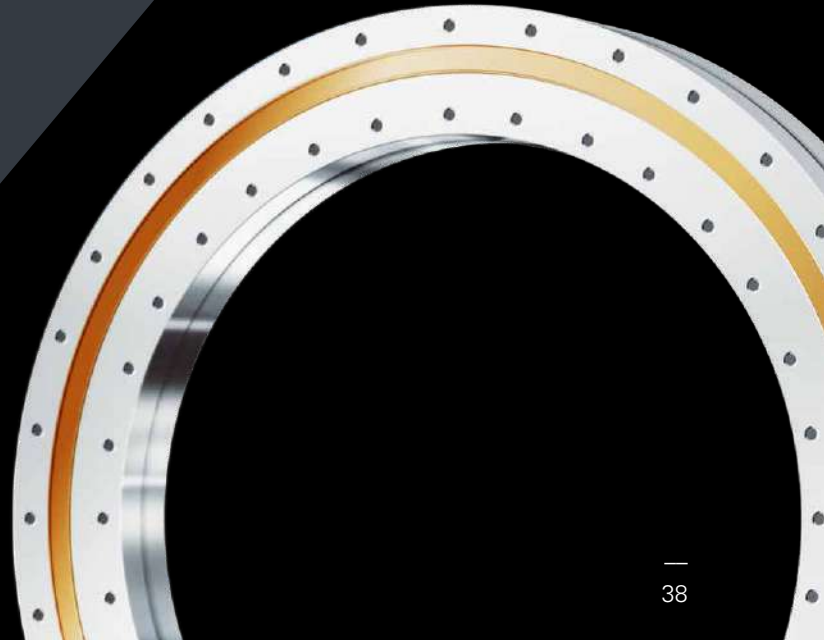
Boring



Grinding



Vertical grinding machines



Berthiez RVU Series

Vertical grinding machines

The RVU grinding machines set new standards in high-precision machining and are especially suitable for high-precision grinding applications in the bearing (Renewables) and aerospace (MRO) industries.

Technical Data

Swing diameter	mm	900 – 6,200
RAM stroke	mm	800 – 1,000
Table load	kg	2,000 – 16,000
Swing diameter	inch	35.4 – 244
RAM stroke	inch	31.5 – 39.4
Table load	lbs	4,409 – 35,274
CNC Control		Siemens



[Learn more](#)

Berthiez RVU 900
Berthiez RVU 1100
Berthiez RVU 1350
Berthiez RVU 1600
Berthiez RVU 1800
Berthiez RVU 2200
Berthiez RVU 2700
Berthiez RVU 3700
Berthiez RVU 4700
Berthiez RVU 6200



Motor
spindles



Grinding



Turning



Milling



Transfer machines



Bumotec 1000/C^{neo}

41-axis horizontal transfer machining center

The new Bumotec 1000/C^{neo} horizontal transfer machine produces prismatic parts from round or profiled bar stock. This new compact generation of horizontal transfer machine, with a footprint reduced by 30%, facilitates production set up and management of produced parts, while optimizing energy consumption, time cycles up to 20% through new machine ergonomy, HMI and motor generations.



[Learn more](#)

Technical Data

No. of machining stations	9
No. of spindles	up to 32
No. of tools	up to 33
CNC Control	FANUC

Motor
spindles



Milling



Turning



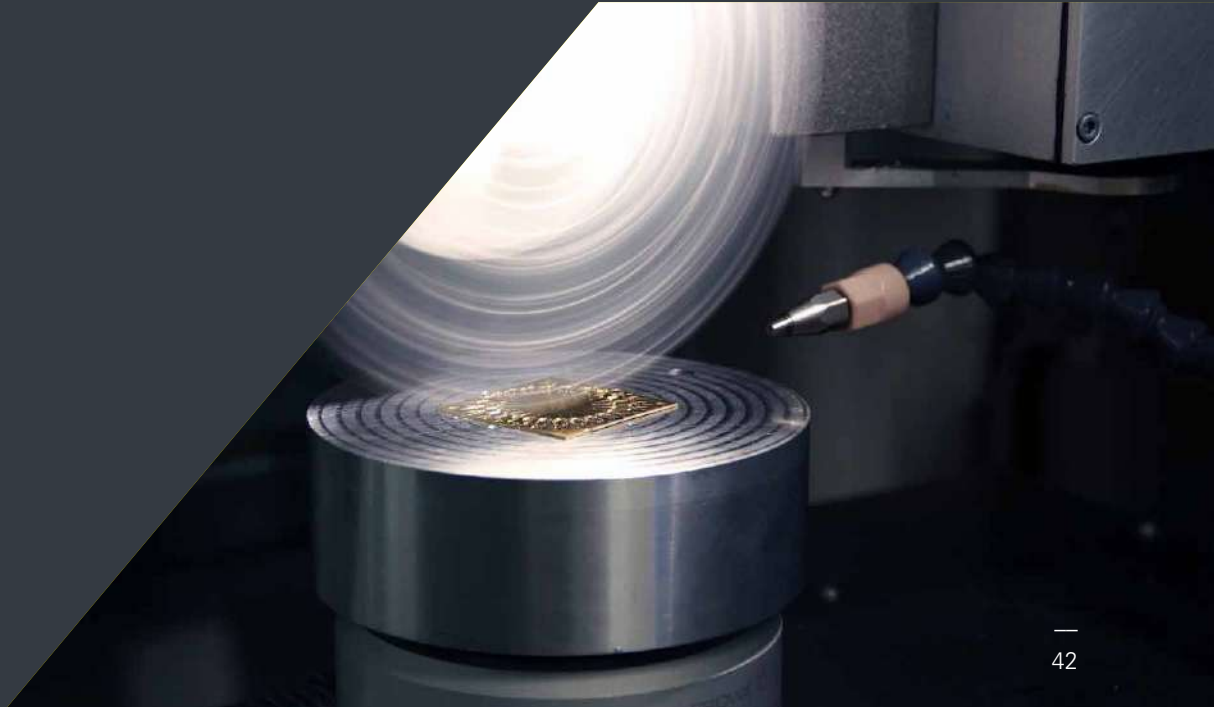
Boring



Bar feeder



Faceting machines



Bumotec s230

Bumotec s230

Faceting and diamond finishing center for dials index

Unlock maximum efficiency and flexibility with the complete solution for index machining and finishing. Designed for small and medium production series, this unique system combines multiple operations on a single machine, delivering outstanding precision, productivity, and cost-effectiveness.



[Learn more](#)

Technical Data

Horizontal spindle		
Torque at 6000 min ⁻¹	Nm	1,1
Power	kW	1
RPM	min	0 to 4.000
Vertical spindle		
Power	kW	2
RPM	min	max 45.000 min ⁻¹
Precision	mm	+/- 0,010
Horizontal spindle		
Torque at 6000 min ⁻¹	lb-ft	0.81
Power	hp	1.34
RPM	min	0 to 4,000
Vertical spindle		
Power	lb-ft	1.48
RPM	min	max. 45,000
Precision	min	+/- 0,010
CNC Control	Siemens	

Motor
spindles



Swivel head



Technology



TTL – Home of Adaptive Machining



Experts in customised CAD, CAM and CNC machining applications.

TTL has been one of the leading industry names for CAD/CAM and CNC machining since 1987. As part of the global Starrag group, and the UK's ONLY Smart Expert for Siemens NX CAM, TTL provides turn-key software solutions with an emphasis on manufacturing for international businesses in the aerospace, power generation, marine, motorsport, and medical sectors.

Certified to ISO 9001 standards, TTL takes a human approach when providing technology which integrates into your existing business processes to ensure you get the most out of your investment.



[Learn more](#)

We understand the issues of your business and tailor solutions accordingly, with comprehensive aftersales support. It is this approach, together with our range of expert experience and knowledge which helped us win the prestigious Queen's Award for Enterprise in the Innovation category for our Adaptive Machining technology.

Our Areas of Expertise

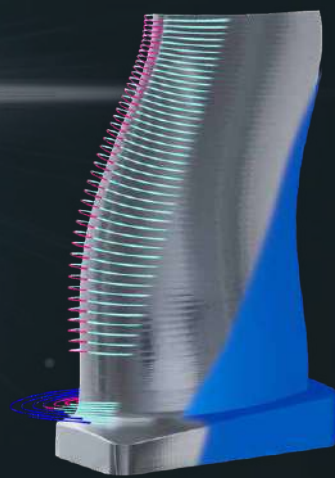
- Adaptive Machining
- Siemens NX CAM
- NX CAD/CAM Training
- CAD/CAM Process Automation



RCS 8 – 30 Years of CAM Expertise, Redefined

Starrag's new RCS 8.0 sets a milestone in CAM technology: our first software for turbine blade machining that learns and evolves with every use. Backed by over three decades of proven expertise, RCS 8.0 combines innovation with reliability.

Featuring a sleek, modern interface, RCS 8.0 streamlines the entire process with automated workflows and intelligent geometry adjustment for variable raw parts. The result: faster programming, higher precision, and a clear advantage in mastering complex free-form contours.



[Learn more](#)

Automation solutions



Everything from simple part storage to the most complex flexible manufacturing systems – even of the largest machines. Starrag makes Industry 4.0 a reality.

Starrag has comprehensive expertise in the systems business and has been processing complete turnkey technology solutions for many years. The range of services covers every aspect of the project, from the engineering, delivery and assembly of all system modules including tools and jigs, to providing

ultra-modern manufacturing technologies, user training sessions, production assistance and service.

A big plus is the possibility of interlinking various different machine designs. Complex production processes can thus be put into reality.



[Learn more](#)

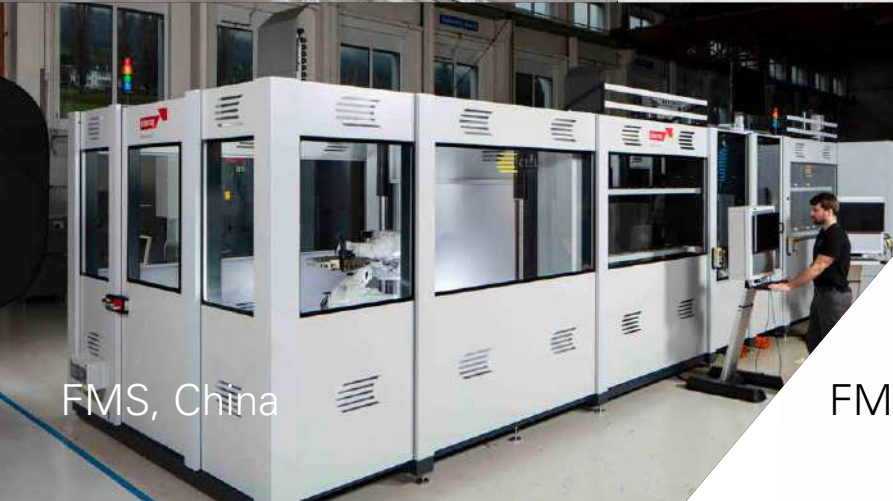




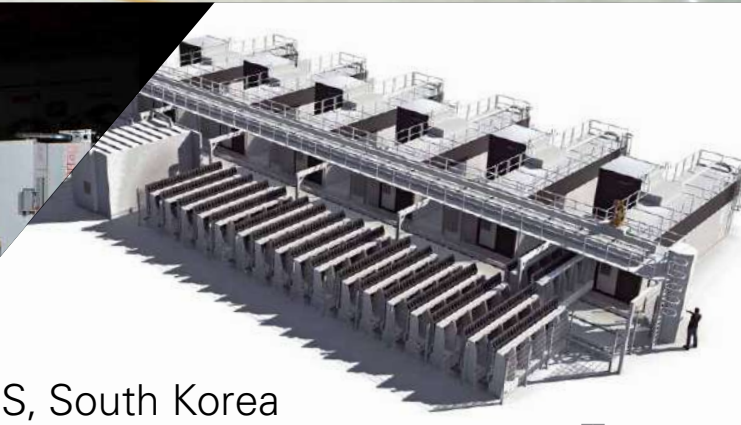
FMS, USA



FMS, China



FMS, China



FMS, South Korea

The right tools for getting parts right

Highest flexibility, benchmark quality – this is what sets Starrag cutting tools apart.

Specific applications require specific tools. For any batch size, Starrag is an experienced and flexible partner to provide custom-made tools quickly and reliably.

With the specific applications in mind, carbide grades, specific contours, angles and radii are selected. For stable machining of instable workpieces, Starrag designs and provides part-specific tooling that significantly increases your productivity and lowers your cost per part. Starrag works directly with the end-user to deliver the best tools for your parts,

and you profit from the expert knowledge of our application engineers who deliver complete turnkey solutions for productivity breakthroughs.

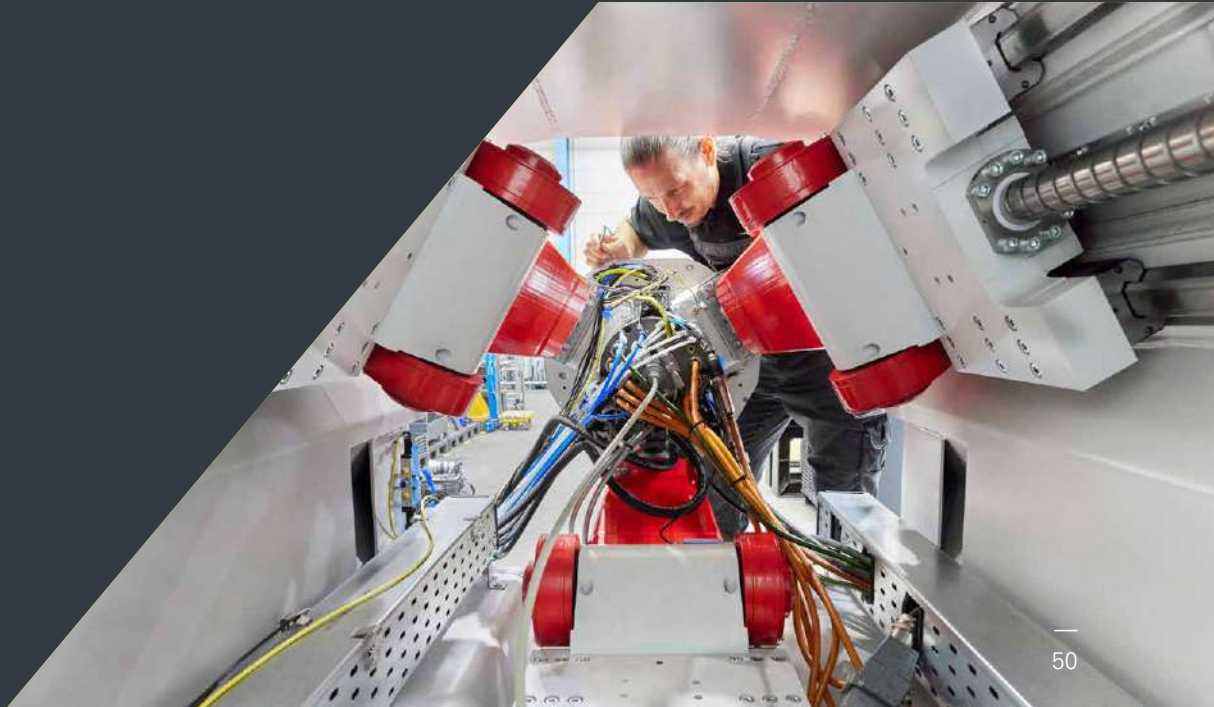
In Starrag's unique "Aerospace and Turbine Competence Center", we machine turbine and aerostructure parts under benchmark conditions.



[Learn more](#)



Service



ServicePlus – Partnering for Efficiency

Service**Plus**⁺
Partnering for Efficiency

A tailored complete package including Service, Support and Maintenance at fixed calculable prices. Starrag accompanies you over the entire production process and provides you with precisely those services that you and your machine need.

- + Extended machine warranty
- + Life cycle solution at a fixed price
- + Higher return on investment
- + Avoid machine breakdowns
- + OEM certified spare parts
- + Service and Logistics Centers worldwide
- + We guarantee 95% availability



[Learn more](#)



Inspection and maintenance

A comprehensive portfolio of technology services, tailored to each customer's specific requirements, helps maximize productivity and ensures manufacturing operations remain flexible, efficient, and ready to meet new challenges.

- Preventive maintenance ensures high technical availability
- OEM certified spare parts
- Avoid machine breakdowns
- Service and Logistics Centers worldwide



Geometry check

We check whether the machine geometry complies fully with the highest precision requirements.



[Learn more](#)



Inspection

Based on checklists, our service technicians ascertain the actual machine status, enabling them to detect any wear and the residual service life of the main components. Results are documented and measures are fixed in conjunction with customers.



Maintenance

Preventive maintenance to manufacturer's specifications ensures a high level of technical availability. We offer a modular structure: our customers decide how the maintenance will be carried out. Customers also might be able to perform maintenance tasks themselves.



Laser measurement

We make use of laser measuring instruments to guarantee that the machine complies with the highest precision measurement requirements.

Modernization and retrofit

Beyond efficient field service and dependable spare parts support, Starrag offers specialized retrofit expertise through its dedicated retrofit department. Our customers receive complete modernization solutions designed to maximize the performance and lifespan of their machines and facilities.

- Efficient retrofit by OEM maintenance of sturdy machine structure
- Continued use of the existing machine location
- Fast re-commissioning
- Low technical and economic risk

Arguments in favour of successful modernisation

- Measure to increase value on a familiar, reliable machine
- Cost saving compared with new investment:



[Learn more](#)

Our strengths

- Integration of assemblies and technology from the complete new modular machine system possible
- Increased performance specifications
- Complete service process chain and worldwide service network
- Comprehensive internal engineering
- Optimum implementation by qualified personnel
- Continuous support from one contact partner

Steep "start-up ramp"

Thanks to the familiar machine and run-in production process, maximum productivity is assured with restored availability.

As good as new

Start and replacement part bottlenecks are permanently avoided.



Spindle overhauls

Maximum reliability and quality from one supplier. Star-rag has extensive experience and expertise in overhauling motor spindles – straight from the manufacturer.

- › OEM quality
- › Manufacturer's warranty
- › Highly qualified personnel
- › OEM replacement parts available from stock
- › Expertise and responsibility from one supplier
- › One contact partner for the complete machine

To ensure availability of your machines, we offer the options of an express overhaul or a spindle from our replacement parts pool.

We will be happy to advise you on the right maintenance work for your motor spindles.

Our overhaul concepts are tailored to your needs:

- › Essential
- › Prime
- › Flat-rate



[Learn more](#)





The logo consists of the word "starrag" in a white, lowercase, sans-serif font, positioned on a red rectangular background. To the right of the text, there is a red geometric shape that resembles a stylized triangle or a folded corner.

starrag

Engineering precisely what you value

Berthiez
Bumotec
Dörries
Droop + Rein
Ecospeed
Heckert
Scharmann
SIP
Starrag
TTL

Starrag USA Inc.

North American Headquarters
Skyport Business Park
2379 Progress Drive
Hebron, KY 41048
United States

ussales@starrag.com
T +1 859-534-5201

www.starrag.com
www.starragtornos.com