



# ScrewFeeders<sup>Tools</sup>



**SFU**

**The Ultimate Power Tools**

# CP: 100 years of Tool Manufacturing

The CP brand, the name for quality tools and assembly systems from four of the world's major and long standing power tool manufacturers: CP Chicago Pneumatic, CP Desoutter, CP Georges Renault, CP Qianshao, CP Scanrotor and CP Techmotive, now fully integrated into one business. Together we provide you with the complete range of products to satisfy all your production needs. We have harnessed our combined R&D, engineering design, manufacturing and sales expertise to form one global organisation serving you at local level yet providing the security of a large back-up organisation. The end result is the most extensive range of products, services and production solutions available, from simple fastening tools, drills and abrasive tools to the most advanced assembly and drilling systems available. Whatever the application we have the tools for the job.



**CP - a name synonymous with quality, durability, power and excellence in its field.**

## Our capability

Leading-edge technology in the ergonomic design and cost efficient manufacture of industrial and assembly power tools and systems.

## Our products

Unrivalled quality and advanced technology that stems from pioneering innovation, tireless research and inspired design and development in line with our customers' requirements.

## Our strengths

The total integration of multi-cultural engineering experience, quality driven manufacturing expertise and customer orientated service.

## Our assets

International centres of excellence in application research, product development, manufacture and sales support, serving the needs of the most prestigious names in global industries.

## Our goals

To exceed customer expectations in every aspect of quality, performance and value for money from a product range that numbers over 2000 tools.

## CP Application Centre

Many major international motor vehicle, aerospace and appliance industry companies rely on CP's Application and Automation centre to provide customised solutions for their production lines.

Our goal: to respond rapidly to customer's specific application requirements.

The best solutions: the proven range of EB (electric brushless) tools keyed to production requirements on a world-wide scale.



Land Rover  
Nissan  
Renault  
Peugeot  
OPEL-GM  
Valeo  
Johnson Control  
Delphi  
Lear  
Faurecia  
Airbus  
Boeing  
Lockheed  
Embraer  
Bombardier  
Eurocopter  
GKN Westland Bell  
Agusta  
ABB  
Caterpillar  
John Deere  
McDermott  
SAIPEM  
Alstom  
DPCA  
JOT-Components  
Ponticelli  
Tenaris  
General Dynamic  
Rexroth  
Transocean  
Fonderie du Poitou  
Halliburton  
Maua Jurong  
Sperro Compressors  
Tupy  
Electrolux  
Rowenta  
Dell  
Compaq/Hewlett Packard  
Thomson  
Panasonic  
Sharp  
Lear  
Bosch  
Siemens  
Vaillant  
Black and Decker  
Milwaukee Electric  
Samsung  
Sony  
Dyson  
Candy  
Hoover/Candy  
Baxi  
Schneider  
Phillips  
Motorola  
...



# SFU - ScrewFeeder Unit

The improvement of productivity quality and customisation along with a close customer association has been the driving force in the development of the CP screwfeeder range.










## Cost effective solution

- Our screwfeeder range is an assembly of modular parts
- Each part of the assembly is a standard Module
- Each Module is easy to change thus provides a flexible solution

## Servicing

- Simple procedure to order via the CP Application Center
- All Module parts in stock
- Easy to install: no special tools required
- Mechanical assembly and components fully designed with 3D CAD system (proe, step or iges format) based also on your 3D specifications



	Your NEEDS	Our SOLUTIONS	
STANDARD SCREW	<b>Micro screws</b> shank dia. 1 - 2,8mm length 20mm max 	Hand Held Unit Stationary unit Stationary unit on 3 Axis Multi spindle solutions	SEE next page
	<b>STD screws</b> shank dia. 3 - 8mm length 40mm max 	Hand Held Unit Stationary unit Stationary unit on 3 Axis Multi spindle solutions	
SPECIAL APPLICATIONS	<b>BIG screws</b> shank dia. 8 - 12mm length 100mm max 	Stationary unit Stationary unit on 3 Axis Multi spindle solutions	SEE the form on the final page and CONTACT CP Application Centre
	<b>Grub screw</b> shank M3 - M10 length 50mm max 	Stationary unit Multi spindle solutions	
	<b>Nut</b> M3 - M10 	Hand held unit until M6 Stationary unit Multi spindle solutions	
	<b>Studs</b> shank dia. 8 - 12mm length 50mm max 	Stationary unit Multi spindle solutions	
	<b>RIVETS</b> Blind Rivet M3 - M10 	Hand held unit only until M6 with pantograph arm Stationary unit Stationary unit on 3 Axis Multi spindle solutions	
	<b>RIVETS</b> Breakstem Rivet Size 3,2 - 4,0 - 4,8 	Hand held unit only with pantograph arm Stationary unit Stationary unit on 3 Axis Multi spindle solutions	
	<b>Plastic rivet</b> shank dia. 2 - 6mm head dia. 14mm Max 	Hand held Stationary unit Stationary unit on 3 Axis Multi spindle solutions	



# ScrewFeeder Modular Assembly Concept

## The Modular Assembly Solution

Based on several decades of experience in manufacturing, CP endeavoured to develop an ASSEMBLY using a modular concept to allow our customer to:

- Obtain a tailored solution with simple upgrading
- Minimise solution compromise
- Standard Modules are all available in stock
- Adapt existing solutions with compatible new Modules
- Ensure a long life system, extremely easy to maintain for cost efficiency
- Obtain a solution to be easily integrated within sophisticated assembly lines
- Obtain the RIGHT SOLUTION at the RIGHT PRICE in the RIGHT TIME.



## BOWLFEEDER

- Electrical cabinet easy to fit on the station or independently
- Pneumatic connectors for the tool on front panel
- Cover including phonic foam around the bowl
- Translucent cover on top to easily check the bowl level
- Centralised modular valves unit with SubD connector, easy to upgrade
- I/O available for easy intergration on customer machine



**BOWL** Module 1

BU200 BU300

M3 M8

- 2 sizes of bowl: Ø200 or Ø300 mm  
- noise < 60 dB(A) (relative to screw size)

**GATE** Module 2

GA08 GA12 GA15

M3 M8

- 3 sizes depending on screw head diameter  
- easy to use without adjustment

**PLC** Module 3


SCU88

- CP plc "SCU88": same technology and same software "isagraf" as the standard CP controller

# Easy to adapt to customers needs

**ELECTRIC SPINDLE** Module 4

ERF/ECF    ECL1    ECL3/5/8/11



0.2Nm 30Nm

- all electric spindles are already inside CP catalogue
- electric transducerized or current controlled
- easy to change (from pneumatic to electric...)

**HAND HELD UNIT ACTUATOR** Module 5

HU40    HU60




0.2 Nm 40 Nm

- ergonomic design handle
- close to the nozzle for better precision
- pneumatic actuator to avoid operator fatigue
- 2 strokes: 40 - 60mm
- start cycle switch without contact
- bit easy to change

**NOZZLE** Module 6

NZ07    NZ10    NZ15



M3 M8

- 3 sizes depending on screw head diameter
- same concept for each size
- screw held by jaws with adjustable pressure
- quick release mechanism to fit the nozzle



**PNEUMATIC SPINDLE** Module 4

SD2RM    ASPC




0.4Nm 16Nm

- pneumatic spindles are already inside CP catalogue
- easy to change (from pneumatic to electric...)

**STATIONNARY UNIT ACTUATOR** Module 5

SU40    SU60    SU100



0.2Nm 40Nm

- pneumatic actuator inside
- 3 strokes: 40 - 60 - 100mm
- 48mm large
- quick release mechanism to fit the extension and the bit

For **SPECIAL APPLICATIONS** complete the form on the final page and contact our CP Application Centre

Once you have provided our Application Centre with information you can obtain:

- customised Modules
- complete manual or stand alone units
- multi spindle units
- as above integrated with pneumatic & electric spindle
- as above fully functional, ready to produce or to be included in a flow assembly line



# ScrewFeeder Parts

The list below aims to provide the main modular options to match the customer application. The customer will then select components like bits, cables... etc. for the screwfeeder station.



NOZZLE		ACTUATOR		Pneumatic SPINDLE		Electric SPINDLE		BOWL		GATE	
MODEL	PART N°	MODEL	PART N°	MODEL	PART N°	MODEL	PART N°	MODEL	PART N°	MODEL	PART N°
NZ07	615 396 465 0	HU40	615 396 460 0	ASPC021-2A2300-S4Q	1458814	ECL1	615 165 235 0	BU200	615 168 000 0	GA08	615 396 531 0
NZ10	615 396 466 0	HU60	615 396 461 0	ASPC021-2A1600-S4Q	1458824	ECL3	615 165 236 0	BU300	615 168 001 0	GA12	615 396 530 0
NZ15	615 396 467 0	SU40	615 396 462 0	ASPC043-2A1100-S4Q	1458834	ECL5	615 165 259 0			GA15	615 396 555 0
		SU60	615 396 463 0	ASPC047-2A550-S4Q	1458844	ECL8	615 165 237 0				
		SU100	615 396 464 0	SD023-2RM3500-S4Q	1464324	ECL11	615 165 260 0				
				SD035-2RM2200-S4Q	1464314	ECF3L	615 165 292 0				
				SD055-2RM1470-S4Q	1464304	ECF5L	615 165 293 0				
				SD075-2RM1100-S4Q	1464294	ECF10L	615 165 294 0				
				SD100-2RM820-S4Q	1464284	ECF20L	615 165 295 0				
				SD140-2RM510-S4Q	1464274	ECF20S	615 165 296 0				
				SD160-2RM320-S4Q	1464264	ECF30S	615 165 297 0				
						ERF3L	615 165 286 0				
						ERF5L	615 165 287 0				
						ERF10L	615 165 288 0				
						ERF20L	615 165 289 0				
						ERF20S	615 165 290 0				
						ERF30S	615 165 291 0				

## Accessories

Please also refer to the right hand page



ITEM	DESCRIPTION	PART NUMBER
AD	Annular detection kit	BER1709000
SR	Pneumatic screw retention kit	615 396 479 0
SRM07	Mechanical screw retention kit for NZ07	615 396 544 0
SRM10	Mechanical screw retention kit for NZ10	615 396 545 0
SRM15	Mechanical screw retention kit for NZ15	615 396 546 0
SDG	Screw detection on gate	BER1710000
HOP05	Hopper 5 litres with bowl level sensor	BER1711100
HOP10	Hopper 10 litres with bowl level sensor	BER1711200
AS5046	Approach system stroke 50mm for SU40 or SU60	615 396 458 0
AS1046	Approach system stroke 100mm for SU40 or SU60	615 396 457 0
AS5010	Approach system stroke 50mm for SU100	615 396 459 0
AS1010	Approach system stroke 100mm for SU100	615 396 456 0
PG	Pistol grip for handle unit	615 396 540 0
ET07	Extension tube for NZ07	615 396 541 0
ET10	Extension tube for NZ10	615 396 542 0
ET15	Extension tube for NZ15	615 396 543 0

# ScrewFeeder Quotation Form

**OUR CUSTOMER SUPPORT** will include

- Concept development - Offer with complete description - 3D drawing
- Installation / start up service - Maintenance training.

**Complete the form below  
and fax it to +33 (0)2 40 80 20 88**

## SCREW SIZE

<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	

D =  mm H =  mm  
 d =  mm L =  mm

According drawing enclosed

Size: (Tx6)

## TIGHTENING

Torque:  Nm  
 Precision:  %

Control:  Torque  
 Angle  
 Deph

Speed:  Rpm

## MANIPULATION

Manual  
 Automatic

Horizontal  
 Downwards  
 Upwards  
 Angle/vert:  Deg

Balancer  
 Pantograph arm

## CYCLE

Qty of screw/part   
 Qty of part/hour   
 Autonomy  Hours

## ENVIRONMENT

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dim. (mm) a = <input type="text"/> b = <input type="text"/>
<input type="checkbox"/> Drawing enclosed			

## DISTANCES

d1  m  
 d2  m  
 d3  m

to confirm (3m as default)  
**(d1 max = 5m)**

## TOOL

Pneumatic  
 Electric current ctrl  
 Electric transducer

## OPTIONS

**HOP** = hopper 5 or 10 litres to automatically re-fill the bowl, including sensor for bowl level.

**SDG** = screw detection on gate (sensor on top of the gate to detect screw going in, for stationary application).

**AS** = approach system kit (for stationary unit strokes available are 50 or 100mm, 2 sensors included).

**AD1**: Screw detection / tube.  
**AD2**: Screw detection.

**SR**: Screw retention kit (to maintain the screw inside nozzle).

## BILL OF MATERIAL

Controller:  ▼  
 Spindle:  ▼  
 Actuator:  ▼  
 Nozzle:  ▼  
 Bowls:  ▼  
 Gates:  ▼

Minimum Accessories:  
 - Bit, extension, feed tube for all application  
 - PS kit for pneumatic application  
 - SCU88 for pneumatic, cvic and cvis appli.

Option 1: SDG  
 Option 2: HOP  
 Option 3: AD1  
 Option 4: AD2  
 Option 5: SR  
 Option 6: AS (Approach System)

Please, do not hesitate to add notes or sketch to explain special situation





[www.cp.com](http://www.cp.com)



Please find your local contact at: [www.cp.com](http://www.cp.com)

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Pneumatic

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 SCANROTOR

 *techmotive*

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