



ScrewFeeders^{Tools}



SFU

The Ultimate Power Tools

CP: 100 years of Tool Manufacturing

The CP brand, the name for quality tools and assembly systems from six of the world's major and long standing power tool manufacturers: CP Chicago Pneumatic, CP Desoutter, CP Georges Renault, CP Qianshao, CP Scanro 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 centers 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 Centers

Many major international motor vehicle, aerospace and appliance industry companies rely on CP's Application and Automation centers 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	Micro screws shank dia. 1 - 2,8mm Sizes No 0 through No 4 length 20mm - 0.75" max		Hand Held Unit Stationary unit Stationary unit on 3 Axis Multi spindle solutions	SEE next page
	STD screws shank dia. 3 - 8mm Sizes No.5 through 5/16" length 40mm - 1.5" max		Hand Held Unit Stationary unit Stationary unit on 3 Axis Multi spindle solutions	
SPECIAL APPLICATIONS	LARGE screws shank dia. 8 - 12mm 5/16" - 1/2" length 100mm - 4" max		Stationary unit Stationary unit on 3 Axis Multi spindle solutions	SEE the form on the final page and CONTACT CP Application Centre
	Set Screw screwshank M3 - M10 Sizes No.5 through 3/8" length 50mm - 2" max		Stationary unit Multi spindle solutions	
	Nut M3 - M10 No. 5 through 3/8"		Hand held unit until M6 - 1/4" Stationary unit Multi spindle solutions	
	Studs shank dia. 8 - 12mm 5/16" - 1.2" length 50mm - 2" max.		Stationary unit Multi spindle solutions	
	RIVETS Blind Rivet M3 - M10 1/8" - 3/8"		Hand held unit only until M6 - 1/4" with balance arm Stationary unit Stationary unit on 3 Axis Multi spindle solutions	
	Pop Rivets Size 3,2 - 4,0 - 4,8 1/8" - 5/32" - 3/16"		Hand held unit only with balance arm Stationary unit Stationary unit on 3 Axis Multi spindle solutions	
	Plastic rivet shank dia. 2 - 6mm 5/64" - 1/4" head dia. 14mm - 9/16" 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 have developed an ASSEMBLY using a modular concept to allow our customer to:

- Obtain a tailored solution with simple upgrading to optimize the solution
- 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 sound proof foam around the bowl
- Transparent 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

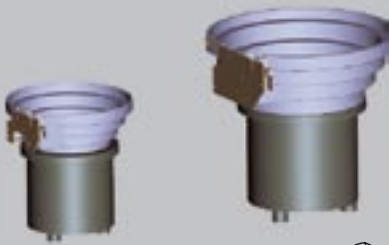


BOWL

Module 1

BU200

BU300



M3 - 1/8"

M8 - 5/16"

- 2 sizes of bowl: Ø200 or Ø300 mm - 8" or 12"
- noise < 60 dB(A) (relative to screw size)

GATE

Module 2

GA08

GA12

GA15



M3 - 1/8"

M8 - 5/16"

- 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 - 0.15ft.lb 30Nm - 22ft.lb

- 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 - 0.15ft.lb 40 Nm - 29.5ft.lb

- ergonomic design handle
- close to the nozzle for better precision
- pneumatic actuator to avoid operator fatigue
- 2 strokes: 40 - 60mm - 1.6" - 2.4"
- start cycle switch without contact
- bit easy to change

NOZZLE Module 6

NZ07 NZ10 NZ15




M3 - 1/8" M8 - 5/16"

- 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 - 0.29ft.lb 16Nm - 11.8ft.lb

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

STATIONARY UNIT ACTUATOR Module 5

SU40 SU60 SU100



0.2Nm - 0.15ft.lb 40Nm - 29.5ft.lb

- pneumatic actuator inside
- 3 strokes: 40 - 60 - 100mm
- 1.6" - 2.4" - 4"
- 48mm - 1.89" large
- quick release mechanism to fit the extension and the bit

For SPECIAL APPLICATIONS
 Complete the form on the final page and contact your CP Application Center


Once you have provided this information we can supply:

- 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 application. Please contact us for more assistance in selection.



NOZZLE

MODEL	PART N°
NZ07	615 396 465 0
NZ10	615 396 466 0
NZ15	615 396 467 0

ACTUATOR

MODEL	PART N°
HU40	615 396 460 0
HU60	615 396 461 0
SU40	615 396 462 0
SU60	615 396 463 0
SU100	615 396 464 0

Pneumatic SPINDLE

MODEL	PART N°
ASPC021-2A2300-S4Q	1458814
ASPC021-2A1600-S4Q	1458824
ASPC043-2A1100-S4Q	1458834
ASPC047-2A550-S4Q	1458844
SD023-2RM3500-S4Q	1464324
SD035-2RM2200-S4Q	1464314
SD055-2RM1470-S4Q	1464304
SD075-2RM1100-S4Q	1464294
SD100-2RM820-S4Q	1464284
SD140-2RM510-S4Q	1464274
SD160-2RM320-S4Q	1464264

Electric SPINDLE

MODEL	PART N°
ECL1	615 165 235 0
ECL3	615 165 236 0
ECL5	615 165 259 0
ECL8	615 165 237 0
ECL11	615 165 260 0
ECF3L	615 165 292 0
ECF5L	615 165 293 0
ECF10L	615 165 294 0
ECF20L	615 165 295 0
ECF20S	615 165 296 0
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

BOWL

MODEL	PART N°
BU200	615 168 000 0
BU300	615 168 001 0

GATE

MODEL	PART N°
GA08	615 396 531 0
GA12	615 396 530 0
GA15	615 396 555 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 - 2" for SU40 or SU60	615 396 458 0
AS1046	Approach system stroke 100mm - 4" for SU40 or SU60	615 396 457 0
AS5010	Approach system stroke 50mm - 2" for SU100	615 396 459 0
AS1010	Approach system stroke 100mm - 4" 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

