



drive solutions in all directions

ServoFoxx[®]





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ServoFoxx by Tandler is the ideal combination of easy assembly, highest precision and almost unlimited variety. By combining planetary and spiral bevel gearboxes the **ServoFoxx** range provides a flexible system offering any combination of ratio, input and output options you require.

Not only coaxial or right angle, but with hollow shafts, one or more auxilliary shafts, switching or reversing gearboxes or even with a third shaft for speed modulation.

The **ServoFoxx** system is compatible with all motors. Thanks to the incorporation of interchangeable flange plates and a two part coupling, the gearbox will fit all motors.

The same applies to the output shaft. To facilitate the integration of the gearbox into an existing design, the location diameter has been standardised and the output shaft diameter of PL2 and SKP2 can be varied to suit your requirements. It can be provided with or without a key.

All **ServoFoxx** gearboxes have black as a common colour, the result of nitriding in our heat treatment plant. A press-fit metal bellows coupling is incorporated at the input. These measures ensure trouble free operation under the most arduous conditions.



50,000 combinations available

fits all motors

easy Servo assembly

corrosion resistant

Combinations

Take a look at the basic advantages of Tandler's **ServoFoxx** :

Many combination options: Single or multi stage, coaxial and right angles - combinations of up to four stages.

Variable: Variable diameter on output shaft (PL2) fits all applications.

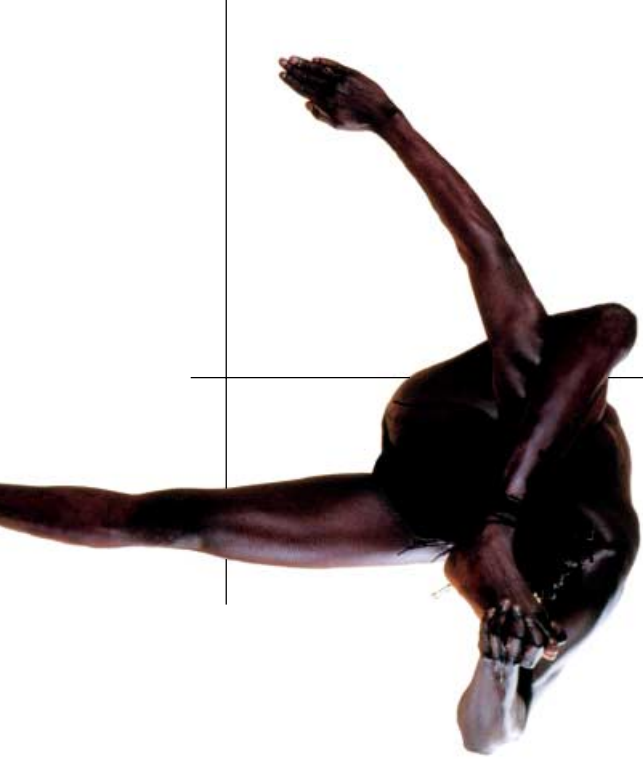
Longlife quality: Bellows coupling at the input isolates gearing from the motor, eliminating external forces and prolongs the gearbox life.

Easy: Press-fit coupling improves motor assembly and reduces fitting times.

Assimilation: Interchangeable flange plates enable the motor type to be changed, whilst retaining the gearbox.

Protection: The gearbox housings are not simply painted. The heat-treated casing ensures resistance to corrosion and in the food processing industry, this surface finish can replace allergy generating nickel and chromium plating.





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ServoFoxy[®] PL2 FS

The planetary gearbox has been specifically designed to minimise backlash for integration with highly dynamic servo motors.

max. torques		size (mm)		
size	Nm	length	width	height
PL2 FS 00	90	125	90	90
PL2 FS 01	225	157	115	115
PL2 FS A1	490	180	140	140
PL2 FS B1	1350	210	190	190

motors



max. torques		size (mm)		
size	Nm	length	width	height
PL2 FS A3	700	286	140	140
PL2 FS B3	2000	343	190	190

max. torques		size (mm)		
size	Nm	length	width	height
PL2 FS 02	280	204	115	115
PL2 FS A2	700	239	140	140
PL2 FS B2	1600	284	190	190

In two or three stages-ratios up to 100:1 or 1000:1 can be provided without significant increases in dimensions.

PL2 FS:

ratios: single stage **3:1 up to 10:1**, 2stage **up to 100:1**, 3stage **up to 1000:1**

torques **up to 2000 Nm** in four sizes

nominal speed **3000 min⁻¹ (4500 - 6000 min⁻¹)**

motor shafts from **5 up to 38 mm** diameter

output shaft diameter can be varied

backlash standard 5 - 6 arc min, reduced \approx 2 arc min



ServoFoxx[®] FS



max. torques		size (mm)		
size	Nm	length	width	height
FS 00	40	143	110	80
FS2 01	110	190	145	110
FS A1	210	228	175	140
FS B1	500	283	215	170
FS C1	900	392	260	210

This gearbox enables servo motors to be connected directly to the precision right angle gearbox. The output shaft can be solid, hollow, switchable or multiplied to result in up to five outputs.

FS:

ratios **2:1 up to 6:1**

torques **up to 900 Nm** in four sizes

nominal speed **3000 min⁻¹**

motor shafts **5 up to 58 mm** diameter

with hollow or switchable or with up to five output shafts

backlash standard 4 - 5 arc min,

reduced $\approx 1,5$ arc min



ServoFoxx[®] PSK2 FS

are right angle gearboxes offering the output options of the spiral bevel gearboxes with even higher ratios. Planetary input stage gear in four sizes suitable for any motor.

Spiral bevel output stage for powerful options such as hollow shaft, switching or up to five outputs. Gearbox sizes can be combined and optimised for maximum output torque capacity.

max. torques		size (mm)		
size	Nm	length	width	height
PSK2 FS 00	65	208	110	80
PSK2 FS 0Z	120	258	145	110
PSK2 FS 01	175	282	145	110
PSK2 FS 0A	225	322	175	140
PSK2 FS A1	360	343	175	140
PSK2 FS AB	500	375	215	170
PSK2 FS B1	620	406	215	170
PSK2 FS BC	920	440	260	210
PSK2 FS BD	1840	502	330	260



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ServoFoxx[®] SKP2 FS

Integrates the ranges of spiral bevel and planetary gearboxes to provide precision right angle drives with ratios from 2:1 up to 54:1. The variations within the standard spiral bevel gearbox range as shown above can be included.

max. torques		size (mm)		
size	Nm	length	width	height
SKP2 FS 00	105	187	143	80
SKP2 FS2 01	280	246	190	110
SKP2 FS A1	700	297	228	140
SKP2 FS B1	1700	363	283	170

SKP2 FS:

ratios **3:1 up to 60:1**

torques **up to 1700 Nm** in four size

nominal speed **3000 min⁻¹**

motor shafts **from 5 up to 38 mm** diameter

backlash standard 7 - 8 arc min,

reduced 3 - 4 arc min

PSK2 FS

ratios **3:1 up to 60:1**

torques **up to 1840 Nm** in nine sizes

nominal speed **3000 min⁻¹ (4500 - 6000 min⁻¹)**

motor shafts **from 5 up to 38 mm** diameter

with hollow or switching or up to five outputs

backlash standard 7 - 8 arc min,

reduced 3 - 4 arc min

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