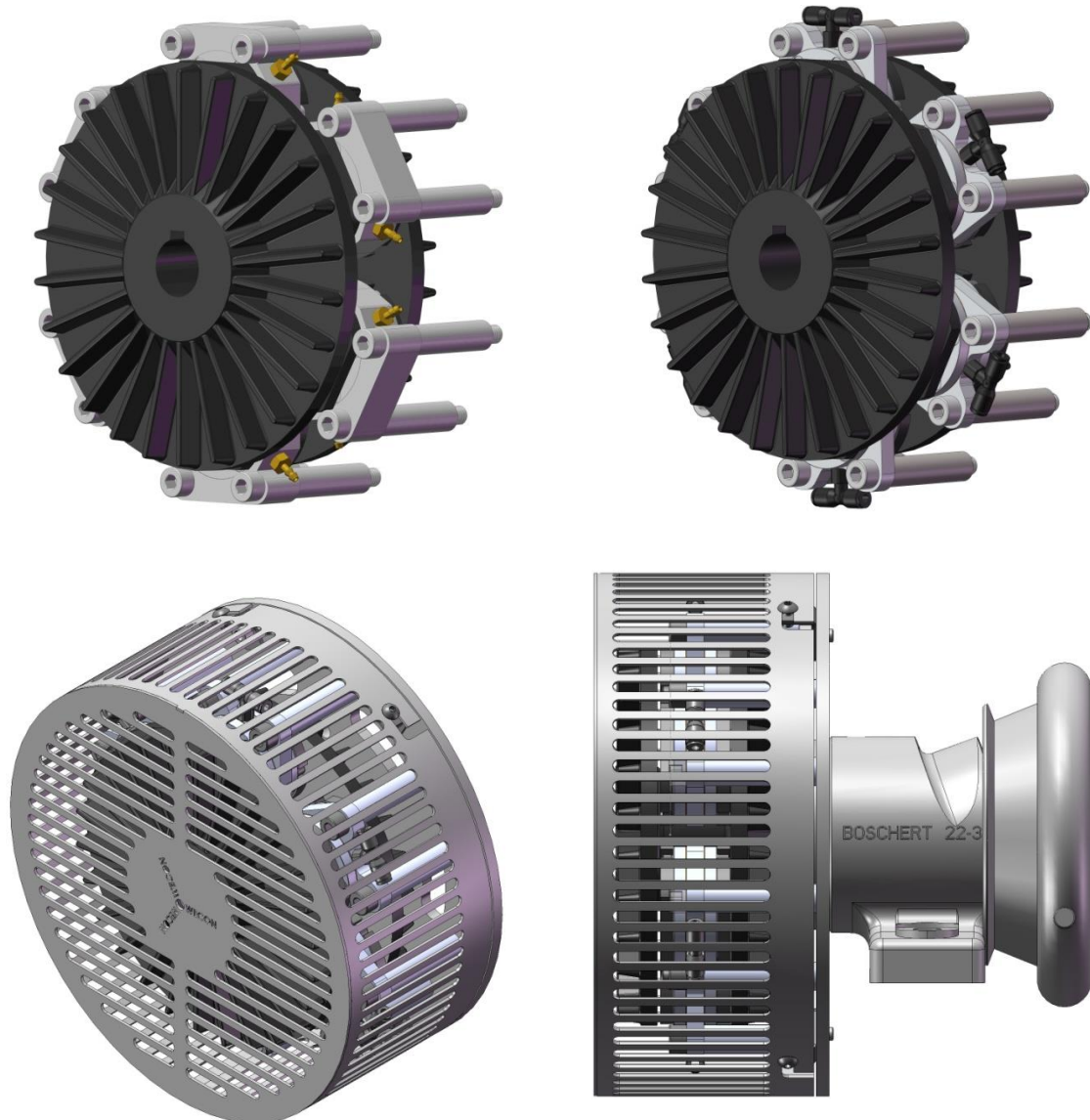


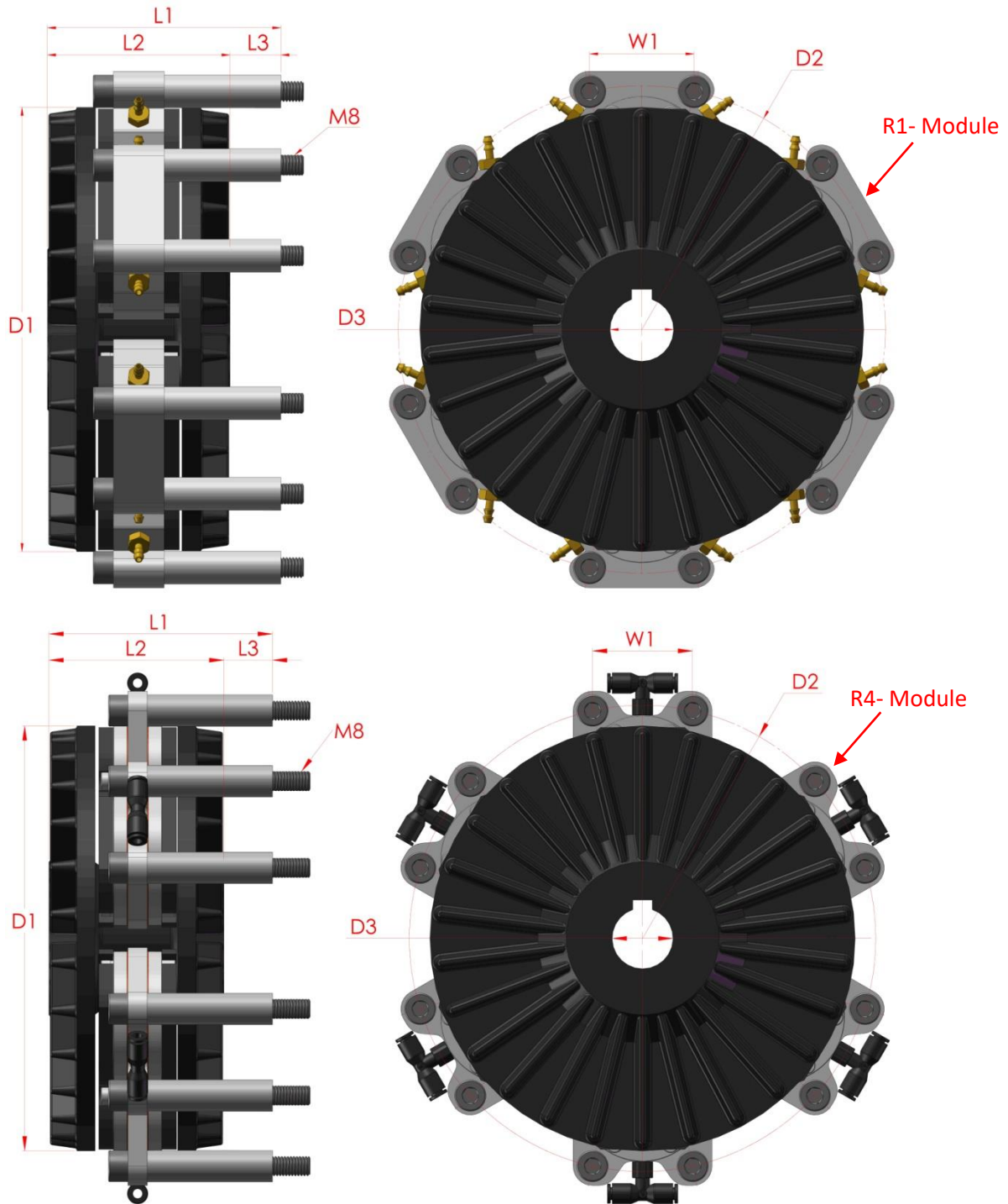
OWECON OWB140-180-240 Series Pneumatic Brake



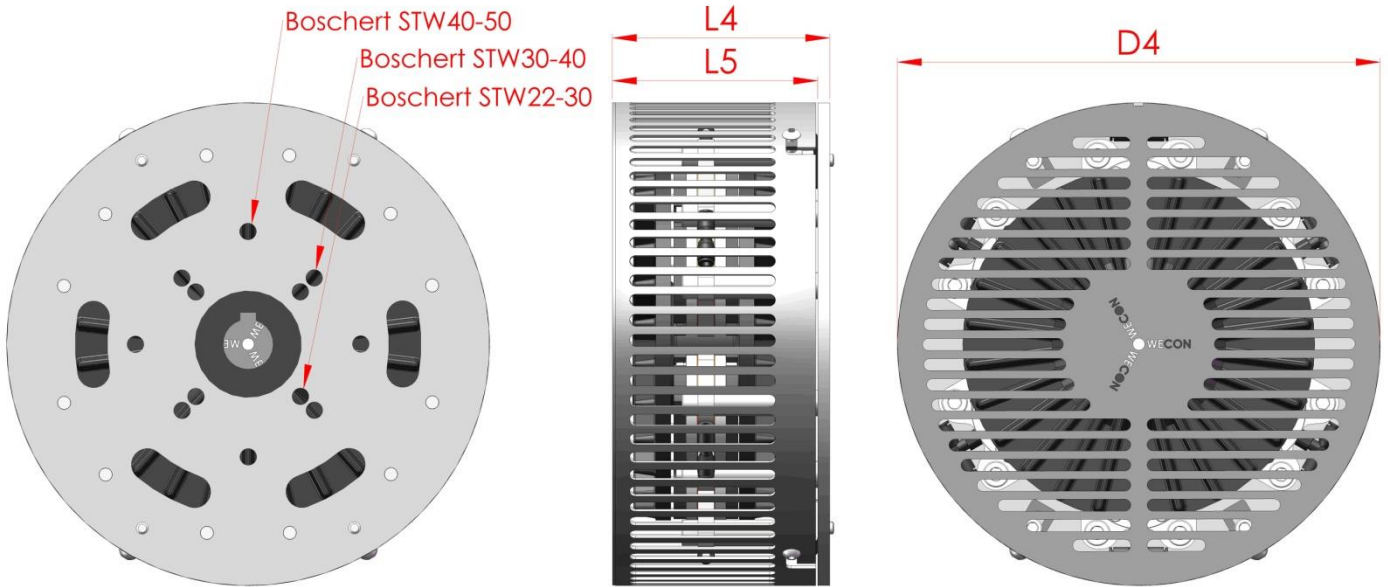
The **OWECON OWB 140-180-240 Series pneumatically controlled brake** is the new line of small brakes for unwind solution.

FEATURES

- ✓ High performance, excellent heat dissipation
- ✓ Compact industrial design - small dimensions, large application range
- ✓ Flexible torque configuration, range up to 427 NM or 3.779 In-lbs
- ✓ Easy to integrate, designed to fit modern machine environment
- ✓ Easy to install and maintain
- ✓ Cost / Performance effective – “as little as possible, as much as necessary”
- ✓ Produced and supported by OWECON – unmatched customer service and quality

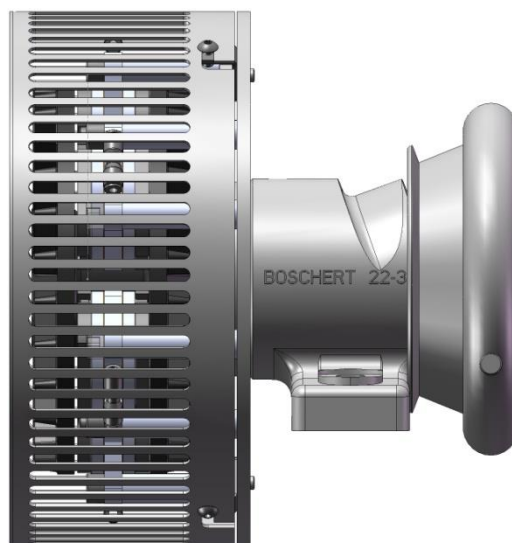


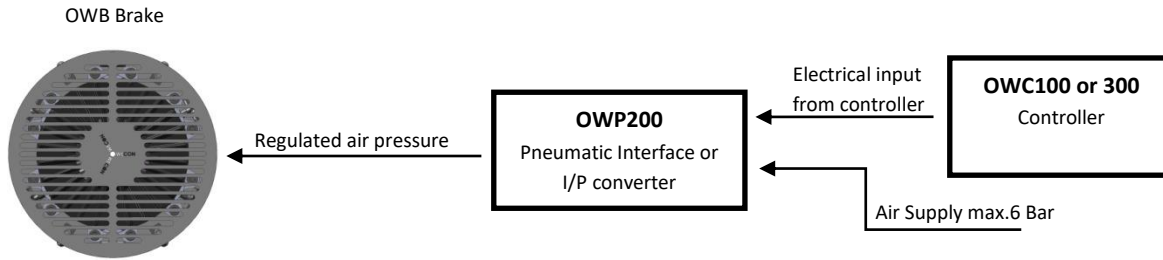
| Dimensions mm and Inches () | | | | | | | |
|------------------------------|----------------|-----------------|--------------------|----------------|---------------|---------------|-----------------|
| Type | D1 | D2 | D3 | L1 | L2 | L3 | W1 |
| OWB140 | 143 (5.63") | 160 (6.30") | Max. 25 (1.00") | 76 (2.99") | 66 (2.60") | 10 (0.39") | 41,2 (1.66") |
| OWB180 | 175 (6.89") | 192 (7.56") | Max. 35 (1.38") | 92 (3.62") | 72 (2.83") | 20 (0.79") | 41,2 (1.66") |
| OWB240 | 238 (9.37") | 255 (10.04") | Max. 45 (1.77") | 108 (4.25") | 78 (3.07") | 30 (1.18") | 41,2 (1.66") |



Standard spider is prepared for mounting on Boschert safety chuck with special spacer ring

| Dimensions mm and Inches () | | | | |
|------------------------------|----------|---------|---------|-----------|
| Type | D4 | L4 | L5 | |
| OWB140 | 200 | 92 | 86 | STW 22-30 |
| | (7.87") | (3.62") | (3.39") | STW 30-40 |
| OWB180 | 240 | 108 | 102 | STW 22-30 |
| | (9.45") | (4.25") | (4.02") | STW 30-40 |
| OWB240 | 300 | 124 | 118 | STW 30-40 |
| | (11.81") | (4.88") | (4.65") | STW 40-50 |





Applications:

The OWECON OWB brakes are used as the braking force to control web tension in unwinds applications. OWECON OWB brakes will easily integrate with OWECON or third-party controllers and peripheral components on all types of web - process and converting machines.

Brake Torque and Heat specifications:

| OWB 140 | | Modules | | | | | | | | | | | |
|--|--|---|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|-------|
| Braking torque at 6 Bar or 87 PSI | | 1 | 2 | 3 | 4 | | | | | | | | |
| Coefficient 0.45 Nm | | 19,6 | 39,2 | 58,8 | 78,4 | | | | | | | | |
| Coefficient 0.45 In-lbs | | 174 | 347 | 520 | 694 | | | | | | | | |
| Coefficient 0.2 Nm | | 8,5 | 17,0 | 25,5 | 34,0 | | | | | | | | |
| Coefficient 0.2 In-lbs | | 75 | 151 | 226 | 301 | | | | | | | | |
| Heat dissipation KW | | | | | | | | | | | | | |
| At RPM = | | 0 | 100 | 200 | 300 | 400 | 500 | 1.000 | 1.500 | 2.000 | 2.500 | 3.000 | 3.500 |
| Heat diss. capacity (KW) | | 0,10 | 0,20 | 0,25 | 0,30 | 0,35 | 0,40 | 0,75 | 1,00 | 1,20 | 1,25 | 1,3 | 1,35 |
| Max RPM = 4.000 | | Weight of rotating parts = 2,8 Kg or 6.17 lb / Max. total weight of brake assembly = 4,6 Kg or 10.14 lb | | | | | | | | | | | |
| OWB 180 | | Modules | | | | | | | | | | | |
| Braking torque at 6 Bar or 87 PSI | | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | |
| Coefficient 0.45 Nm | | 26,5 | 53,0 | 79,5 | 106,0 | 132,5 | 159,0 | | | | | | |
| Coefficient 0.45 In-lbs | | 235 | 469 | 704 | 938 | 1-173 | 1.407 | | | | | | |
| Coefficient 0.2 Nm | | 11,5 | 23,0 | 34,5 | 46,0 | 57,5 | 69,0 | | | | | | |
| Coefficient 0.2 In-lbs | | 102 | 204 | 305 | 407 | 509 | 611 | | | | | | |
| Heat dissipation KW | | | | | | | | | | | | | |
| At RPM = | | 0 | 100 | 200 | 300 | 400 | 500 | 1.000 | 1.500 | 2.000 | 2.500 | 3.000 | 3.500 |
| Heat diss. capacity (KW) | | 0,25 | 0,30 | 0,40 | 0,50 | 0,60 | 0,70 | 1,20 | 1,50 | 2,00 | 2,40 | 2,80 | 3,20 |
| Max RPM = 4.000 | | Weight of rotating parts = 4,2 Kg or 9.26 lb / Max. total weight of brake assembly = 6,9 Kg or 15.21 lb | | | | | | | | | | | |
| OWB 240 | | Modules | | | | | | | | | | | |
| Braking torque at 6 Bar or 87 PSI | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9* | 10* | | |
| Coefficient 0.45 Nm | | 42,7 | 85,4 | 128,1 | 170,8 | 213,5 | 256,2 | 298,9 | 341,6 | 384,3 | 427,0 | | |
| Coefficient 0.45 In-lbs | | 378 | 756 | 1.134 | 1.512 | 1.890 | 2.268 | 2.646 | 3.023 | 3.401 | 3.779 | | |
| Coefficient 0.2 Nm | | 18,5 | 37,0 | 55,5 | 74,0 | 92,5 | 111,0 | 129,5 | 148,0 | 166,5 | 185,0 | | |
| Coefficient 0.2 In-lbs | | 164 | 328 | 491 | 655 | 819 | 982 | 1.146 | 1.310 | 1.474 | 1.637 | | |
| Heat dissipation KW | | | | | | | | | | | | | |
| At RPM = | | 0 | 100 | 200 | 300 | 400 | 500 | 1.000 | 1.500 | 2.000 | 2.500 | 3.000 | 3.500 |
| Heat diss. capacity (KW) | | 0,50 | 0,80 | 1,20 | 1,40 | 1,70 | 1,90 | 3,00 | 3,80 | 4,60 | 5,30 | 5,80 | 6,30 |
| Max RPM = 4.000 | | Weight of rotating parts = 8,8 kg or 19.40 lb / Max. weight of brake assembly = 13,3 Kg or 29.32 lb | | | | | | | | | | | |

* Only with R4 Modules

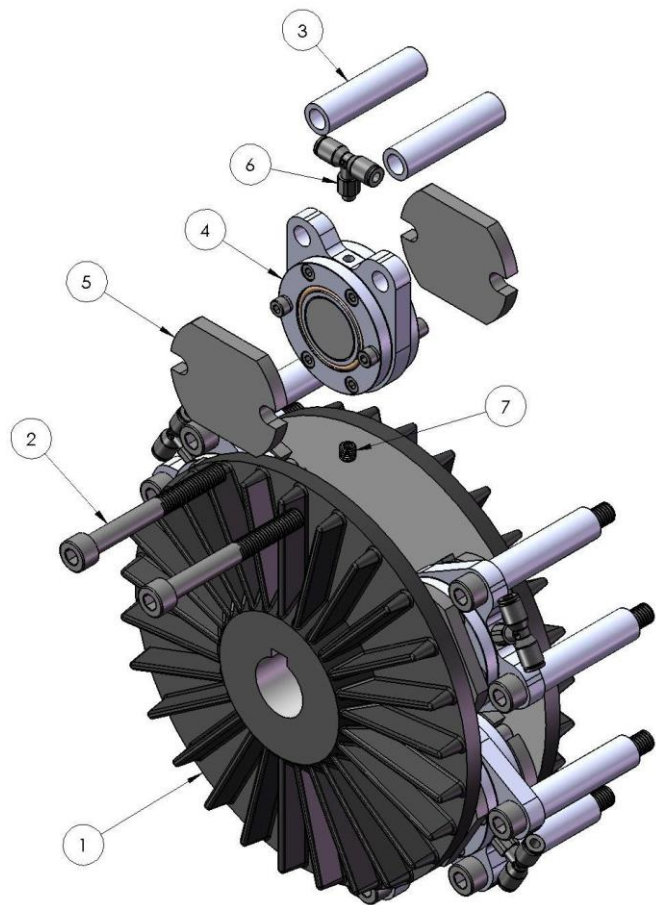
Heat dissipation

The values of heat dissipation power has been obtained under the following test conditions:

- Discs in continuous rotation with ambient temperature +25° ● Disc temperature 150 °C

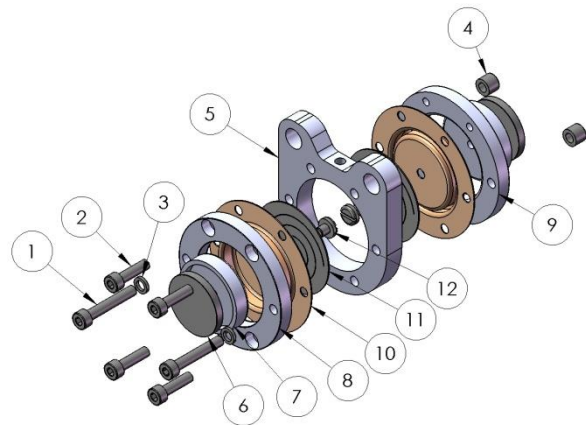
Brake assembly

| Pos. No | Text | Qty |
|-----------------------|---------------------------|---------|
| 1 | Brake disc | 1 |
| 2 | Mounting bolt | 2* |
| 3 | Cylindrical spacer | 2* |
| 4 | Pneumatic friction module | Various |
| 5 | Friction pad | 2* |
| 6 | Pneumatic air connector | 1* |
| 7 | Set screw | 2 |
| * Per friction module | | |



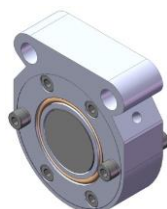
Friction pad assembly Type R4

| Pos. No | Text | Qty |
|---------|--|-----|
| 1 | Unbraco M4 x 25 | 2 |
| 2 | Unbraco M4 x 15 | 4 |
| 3 | Washer $\varnothing 6,7 \times \varnothing 4,3 \times 1,2$ | 2 |
| 4 | Ant rotation pin $\varnothing 7$ | 2 |
| 5 | Housing | 1 |
| 6 | Magnet | 2 |
| 7 | Piston | 2 |
| 8 | Housing ring head side | 1 |
| 9 | Housing ring thread side | 1 |
| 10 | Rolling diaphragm | 2 |
| 11 | Flat spring | 2 |
| 12 | Slotted screw | 2 |

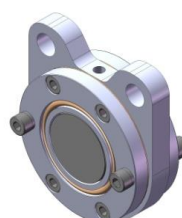


Various types of friction modules

R1-Module



R4-Module

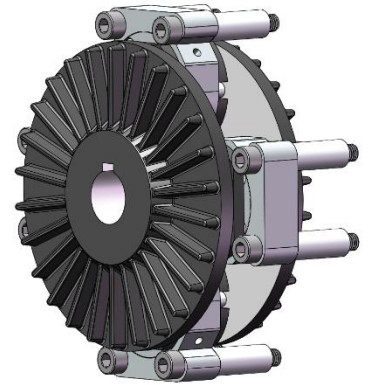


The brakes come as standard in 3 different sizes as follows:

Frame mount for direct installation with the M8 screws holding the friction modules bolted directly on the machine side. If cover is needed same installation method applies. Type and number (X) of friction module is to be selected and bore size must be specified, standard bore size is shown below.

- OWB141 to OWB144 R1 or R4 Ø20 or Ø25 #610X0000
- OWB181 to OWB186 R1 or R4 Ø25, Ø28, Ø30, Ø32 or Ø35 #613X0000
- OWB241 to OWB248 R1 or R4 Ø25, Ø30, Ø30 or Ø35 #619X0000

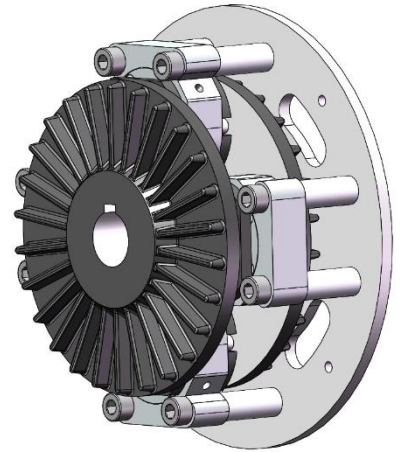
Cover and friction pads Type 100 must be ordered separately



Spider mount for easier installation with the M8 screws and if needed also the cover bolted on the spider. The spider is designed for direct installation on the standard Boschert safety chucks.

- OWB141 to OWB144 R1 or R4 Ø20 or Ø25 #610X0001
- OWB181 to OWB186 R1 or R4 Ø25, Ø28, Ø30, Ø32 or Ø35 #613X0001
- OWB241 to OWB248 R1 or R4 Ø25, Ø30, Ø30 or Ø35 #619X0001

Cover and friction pads Type 100 must be ordered separately



For each size of brake, a standard cover with brackets is available and must be ordered separately.

- OWB140 series cover with brackets #90006280
- OWB181 series cover with brackets #90006298
- OWB241 series cover with brackets #90006346



Friction pads Type 100 are all the same for the 3 different brake sizes and must be ordered separately.
The pads come as standard with the friction coefficient 0,10, 0,30 and 0,45, for achieving a lowest possible “Stick/Slip” effect we also have Teflon pads available.

