

INTRODUCING

AVANT SERIES

ULTRA QUIET SWIVEL AND ROLL

Precision ball bearing swivel and wheel provide quieter mobility than competitors' double ball bearing raceway design

SMOOTH ERGONOMIC PERFORMANCE

Make movement easier and improve user satisfaction and safety with Avant's QuikStart wheels

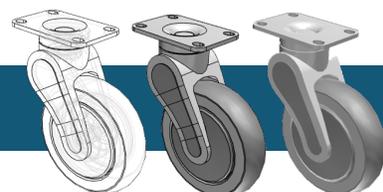
CLEAN + MAINTENANCE FREE

Sealed bearings, non-marking wheels, and integrated thread guards keep out dirt and entangling debris



CAD MODELS
AND DATASHEETS

WWW.MEDCASTER.COM/AVANT



See the complete Avant family of castors inside.

AVANT

FEATURES & SPECIFICATIONS:

- Body constructed of glass-filled nylon for high load capacities, durability, and long life.
- QuikStart wheel (70A durometer) is quiet, non-marking, and maintains smooth roll even after brake has been applied for long periods of time.
- 100mm (4"), 125mm (5"), and 150mm (6") models all feature sealed precision ball bearing raceway design, making this caster ergonomically friendly and quieter than dual ball bearing constructions.
- All models feature sealed precision ball bearing wheels and full thread guards to keep out entangling debris and provide superior, quiet mobility.
- Standard color: RAL 7001 (light grey body and total lock pedal); RAL 7011 (dark grey wheel tread and thread guards); RAL 3020 (red total lock pedal); RAL 6024 (green directional lock pedal).

OPTIONS:

- **Total Lock and Directional Lock Brakes** available on 100mm (4"), 125mm (5"), and 150mm (6") sizes. Total lock brake (grey or red) locks both the wheel and swivel section when engaged; directional lock brake (green) locks only the swivel when engaged for easy steering.
- **Custom colors, stainless steel** componentry, **antimicrobial**, and **antistatic** models also available by special order (minimums apply).
- **Extended Brake Pedal** available on 100mm (4"), 125mm (5"), and 150mm (6") sizes for applications requiring easier access to engage or disengage brakes—see page 6 for additional details and specifications.



75MM (3") TOP PLATE MODELS

SWIVEL
Top Plate



WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
75mm (3")	25mm (1")	80kg (176lbs)	115.5mm (4.5")	64.5mm (2.54")	AV03QRP100SW	Top Plate: TP01, TP05, TP07, TP09 (Plate size and bolt patterns shown below)

WHEEL LOCK
Top Plate



WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
75mm (3")	25mm (1")	80kg (176lbs)	115.5mm (4.5")	73mm (2.88")	AV03QRP100TB	Top Plate: TP01, TP05, TP07, TP09 (Plate size and bolt patterns shown below)

To order, add blue fitting code to end of model number
Example: **AV03QRP100SW/TP01**

75MM (3") STEM MODELS

SWIVEL
Choose Fitting



WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT BY FITTING	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
75mm (3")	25mm (1")	80kg (176lbs)	Grip Ring: 107.5mm (4.23") Threaded: 112.5mm (4.43")	64.5mm (2.54")	AV03QRP100SW	Grip Ring Stems: GR01, GR10

WHEEL LOCK
Choose Fitting

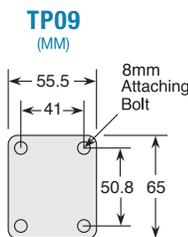
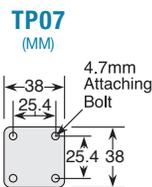
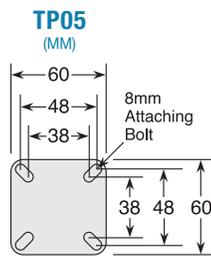
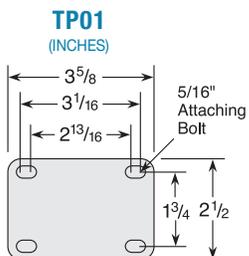


WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT BY FITTING	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
75mm (3")	25mm (1")	80kg (176lbs)	Grip Ring: 107.5mm (4.23") Threaded: 112.5mm (4.43")	73mm (2.88")	AV03QRP100TB	Threaded Stems: TS02, TS06, TS07, TS15, TS34, TS37

To order, add blue fitting code to end of model number
Example: **AV03QRP100SW/TS06**

FITTING OPTIONS

Plates



Grip Ring



GR01	7/16" x 7/8" (11mm x 22mm)
GR10	7/16" x 1-3/8" (11mm x 35mm)

Threaded Stem



TS02	1/2"-13NC x 1"
TS06	3/8"-16NC x 1"
TS07	M12 x 25mm
TS15	M10 x 15mm
TS34	M10 x 25mm
TS37	M12 x 38mm

100MM (4") TOP PLATE MODELS

SWIVEL	Top Plate 	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		100mm (4")	32mm (1.25")	100kg (220lbs)	146.5mm (5.77")	86mm (3.39")	AV04QRP125SW	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)

TOTAL LOCK	Top Plate 	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		100mm (4")	32mm (1.25")	100kg (220lbs)	146.5mm (5.77")	102.5mm (4.04")	AV04QRP125TL	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)

Optional Extended Brake Pedal available—see page 6.



DIRECTIONAL LOCK	Top Plate 	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		100mm (4")	32mm (1.25")	100kg (220lbs)	146.5mm (5.77")	102.5mm (4.04")	AV04QRP125DL	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)

Optional Extended Brake Pedal available—see page 6.

To order, add blue fitting code to end of model number
Example: **AV04QRP125SWTP01**

100MM (4") STEM MODELS

SWIVEL	Choose Fitting 	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		100mm (4")	32mm (1.25")	100kg (220lbs)	139mm (5.47")	86mm (3.39")	AV04QRP125SW	Hollow Kingpin: HK01, HK04 unassembled: HKU1, HKU4 Round Stems: RS01, RS02, RS03 Grip Ring Stems: GR02, GR06, GR09 Threaded Stems: TS02, TS03, TS04, TS05, TS06, TS07, TS21, TS22

TOTAL LOCK*	Choose Fitting 	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		100mm (4")	32mm (1.25")	100kg (220lbs)	139mm (5.47")	102.5mm (4.04")	AV04QRP125TL	Expanding Adapter Stems: XRN1, XRN2, XRN3, XRN4, XRR1, XRR2, XRR3, XRR4, XRR5, XRR6, XRR7

*All Total Lock stem models feature red brake pedal; grey pedal available by special order.
Optional Extended Brake Pedal available—see page 6.

DIRECTIONAL LOCK	Choose Fitting 	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		100mm (4")	32mm (1.25")	100kg (220lbs)	139mm (5.47")	102.5mm (4.04")	AV04QRP125DL	Hollow Kingpin: HK01, HK04 unassembled: HKU1, HKU4 Round Stems: RS01, RS02, RS03 Grip Ring: GR09

Optional Extended Brake Pedal available—see page 6.

To order, add blue fitting code to end of model number
Example: **AV04QRP125SWRS01**

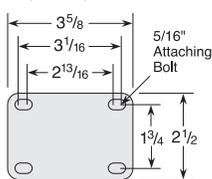
See page 6 for additional ordering information.

FITTING OPTIONS

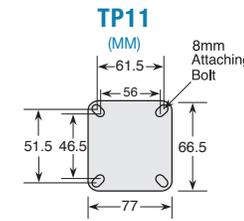
**Note: Threaded stem Directional Locks available upon request.

Plates

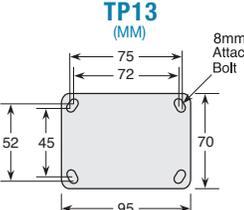
TP01 (INCHES)



TP11 (MM)



TP13 (MM)



Hollow Kingpin

HK01	13mm ID
HK04	11mm ID
HKU1*	13mm ID
HKU4*	11mm ID

*For unassembled casters, use HKU1 or HKU4 codes.



(HK)

Grip Ring

GR02	7/16" x 1-7/16"
GR06	7/8" x 2"
GR09*	.845" x 2-3/16"

*GR09 mounting hole is 8mm and located 19mm on center from the base of stem.



(GR)

Threaded Stem*

TS02	1/2"-13NC x 1"
TS03	1/2"-13NC x 1-1/2"
TS04	1/2"-13NC x 2"
TS05	7/16"-14NC x 1-3/4"
TS06	3/8"-16NC x 1"
TS07	M12 x 25mm
TS21	M12 x 60mm
TS22	1/2"-13NC x 2-11/16"

*Threaded stem models will be furnished with a loose cap screw with nylon retention washer for ease of assembly.



(TS)

Expanding Adapters

See page 6 for fitting codes and specifications.



(XRN)

Round Stem*

RS01	22mm x 45mm
RS02	25.4mm x 45mm
RS03	27.8mm x 45mm

*Mounting hole is 8mm and located 19mm on center from the base of stem.



(RS)

Custom fittings available by special order, minimums may apply.

125MM (5") TOP PLATE MODELS

SWIVEL	Top Plate	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		125mm (5")	32mm (1.25")	100kg (220lbs)	169.5mm (6.67")	102.5mm (4.04")	AV05QRP125SW	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)
		125mm (5")	32mm (1.25")	100kg (220lbs)	169.5mm (6.67")	102.5mm (4.04")	AV05QRP125TL	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)
		125mm (5")	32mm (1.25")	100kg (220lbs)	169.5mm (6.67")	102.5mm (4.04")	AV05QRP125DL	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)

Optional Extended Brake Pedal available—see page 6.

TP01 features grey brake pedal. TP11 and TP13 feature red brake pedals.

To order, add blue fitting code to end of model number
Example: AV05QRP125SWTP01

125MM (5") STEM MODELS

SWIVEL	Choose Fitting	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		125mm (5")	32mm (1.25")	100kg (220lbs)	162mm (6.375")	102.5mm (4.04")	AV05QRP125SW	Hollow Kingpin: HK01, HK04 unassembled: HKU1, HKU4 Round Stems: RS01, RS02, RS03 Grip Ring Stems: GR02, GR06, GR09 Threaded Stems: TS02, TS03, TS04, TS05, TS06, TS07, TS21, TS22 Expanding Adapter Stems: XRN1, XRN2, XRN3, XRN4, XRR1, XRR2, XRR3, XRR4, XRR5, XRR6, XRR7
		125mm (5")	32mm (1.25")	100kg (220lbs)	162mm (6.375")	102.5mm (4.04")	AV05QRP125TL	
		125mm (5")	32mm (1.25")	100kg (220lbs)	162mm (6.375")	102.5mm (4.04")	AV05QRP125DL	Hollow Kingpin: HK01, HK04 unassembled: HKU1, HKU4 Round Stems: RS01, RS02, RS03 Grip Ring: GR09

*All Total Lock stem models feature red brake pedal; grey pedal available by special order.
Optional Extended Brake Pedal available—see page 6.

To order, add blue fitting code to end of model number
Example: AV05QRP125SWRS01

See page 6 for additional ordering information.

**Note: Threaded stem Directional Locks available upon request.

FITTING OPTIONS

Plates

TP01 (INCHES)

3 5/8" (width), 3 1/16" (width), 2 13/16" (width), 5/16" (height), 1 3/4" (height), 2 1/2" (height)

TP11 (MM)

61.5 (width), 56 (width), 51.5 (height), 46.5 (height), 66.5 (height), 77 (width)

TP13 (MM)

75 (width), 72 (width), 52 (height), 45 (height), 70 (height), 95 (width)

Hollow Kingpin

HK01	13mm ID
HK04	11mm ID
HKU1*	13mm ID
HKU4*	11mm ID

*For unassembled casters, use HKU1 or HKU4 codes.

Expanding Adapters

See page 6 for fitting codes and specifications.

Grip Ring

GR02	7/16" x 1-7/16"
GR06	7/8" x 2"
GR09*	.845" x 2-3/16"

*GR09 mounting hole is 8mm and located 19mm on center from the base of stem.

Round Stem*

RS01	22mm x 45mm
RS02	25.4mm x 45mm
RS03	27.8mm x 45mm

*Mounting hole is 8mm and located 19mm on center from the base of stem.

Threaded Stem*

TS02	1/2"-13NC x 1"
TS03	1/2"-13NC x 1-1/2"
TS04	1/2"-13NC x 2"
TS05	7/16"-14NC x 1-3/4"
TS06	3/8"-16NC x 1"
TS07	M12 x 25mm
TS21	M12 x 60mm
TS22	1/2"-13NC x 2-11/16"

*Threaded stem models will be furnished with a loose cap screw with nylon retention washer for ease of assembly.

Custom fittings available by special order, minimums may apply.

150MM (6") TOP PLATE MODELS

SWIVEL	Top Plate	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		150mm (6")	32mm (1.25")	100kg (220lbs)	195.5mm (7.7")	120mm (4.72")	AV06QRP125SW	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)
TOTAL LOCK	Top Plate	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		150mm (6")	32mm (1.25")	100kg (220lbs)	195.5mm (7.7")	120mm (4.72")	AV06QRP125TL	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)
		Optional Extended Brake Pedal available—see page 6.						
DIRECTIONAL LOCK	Top Plate	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		150mm (6")	32mm (1.25")	100kg (220lbs)	195.5mm (7.7")	120mm (4.72")	AV06QRP125DL	Top Plate: TP01, TP11, TP13 (Plate size and bolt patterns below)
		Optional Extended Brake Pedal available—see page 6.						

To order, add blue fitting code to end of model number
Example: AV06QRP125SWTP01

150MM (6") STEM MODELS

SWIVEL	Choose Fitting	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		150mm (6")	32mm (1.25")	100kg (220lbs)	188mm (7.4")	120mm (4.72")	AV06QRP125SW	Hollow Kingpin: HK01, HK04 unassembled: HKU1, HKU4 Round Stems: RS01, RS02, RS03 Grip Ring Stems: GR02, GR06, GR09
TOTAL LOCK*	Choose Fitting	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		150mm (6")	32mm (1.25")	100kg (220lbs)	188mm (7.4")	120mm (4.72")	AV06QRP125TL	Threaded Stems: TS02, TS03, TS04, TS05, TS06, TS07, TS21, TS22 Expanding Adapter Stems: XRN1, XRN2, XRN3, XRN4, XRR1, XRR2, XRR3, XRR4, XRR5, XRR6, XRR7
		*All Total Lock stem models feature red brake pedal; grey pedal available by special order. Optional Extended Brake Pedal available—see page 6.						
DIRECTIONAL LOCK	Choose Fitting	WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	OVERALL HEIGHT	SWIVEL RADIUS	MODEL NUMBER (INSERT FITTING CODE)	FITTING OPTIONS
		150mm (6")	32mm (1.25")	100kg (220lbs)	188mm (7.4")	120mm (4.72")	AV06QRP125DL	Hollow Kingpin: HK01, HK04 unassembled: HKU1, HKU4 Round Stems: RS01, RS02, RS03 Grip Ring: GR09
		Optional Extended Brake Pedal available—see page 6.						

To order, add blue fitting code to end of model number
Example: AV06QRP125SWRS01

See page 6 for additional ordering information.

**Note: Threaded stem Directional Locks available upon request.

FITTING OPTIONS

Plates

TP01 (INCHES)

TP13 (MM)

Hollow Kingpin

HK01	13mm ID
HK04	11mm ID
HKU1*	13mm ID
HKU4*	11mm ID

*For unassembled casters, use HKU1 or HKU4 codes.

Expanding Adapters
See page 6 for fitting codes and specifications.

Grip Ring

GR02	7/16" x 1-7/16"
GR06	7/8" x 2"
GR09*	.845" x 2-3/16"

*GR09 mounting hole is 8mm and located 19mm on center from the base of stem.

Round Stem*

RS01	22mm x 45mm
RS02	25.4mm x 45mm
RS03	27.8mm x 45mm

*Mounting hole is 8mm and located 19mm on center from the base of stem.

Threaded Stem*

TS02	1/2"-13NC x 1"
TS03	1/2"-13NC x 1-1/2"
TS04	1/2"-13NC x 2"
TS05	7/16"-14NC x 1-3/4"
TS06	3/8"-16NC x 1"
TS07	M12 x 25mm
TS21	M12 x 60mm
TS22	1/2"-13NC x 2-11/16"

*Threaded stem models will be furnished with a loose cap screw with nylon retention washer for ease of assembly.

Custom fittings available by special order, minimums may apply.

EXPANDING ADAPTER OPTIONS: 100MM (4"), 125MM (5"), AND 150MM (6") MODELS

Directional Lock casters are not compatible with expanding adapter stems.



(XRN)

Fitting Code	Imperial Expansion Range (length is approx. 2.25")	Metric Expansion Range (length is approx. 57mm)
Round Nylon Expanding Adapters		
XRN1	.70"-.78"	17.8-19.7mm
XRN2	.78"-.85"	19.8-21.7mm
XRN3	.86"-.97"	21.8-24.7mm
XRN4	.97"-1.13"	24.8-28.7mm
XRN5	1.14"-1.29"	28.8-32.7mm
Square Nylon Expanding Adapters		
XSN1	.78"-.81"	19.6-20.9mm
XSN2	.83"-.87"	21.0-21.9mm
XSN3	.88"-.94"	22.0-24.0mm
XSN5	.985"-1.12"	25.8-28.5mm
XSN6	1.13"-1.16"	28.6-29.5mm
XSN7	1.16"-1.29"	29.6-32.7mm
XSN9	1.36"-1.46"	34.6-37.0mm
Round Rubber Expanding Adapters		
XRR1	.75"-.81"	19.04-20.62mm
XRR2	.88"-.94"	22.21-23.79mm
XRR3	1.0"-1.06"	25.4-26.99mm
XRR4	1.13"-1.19"	28.7-30.23mm
XRR5	1.25"-1.31"	31.75-33.27mm
XRR6	1.38"-1.44"	35.05-36.57mm
XRR7	1.5"-1.56"	38.1-39.62mm
XRR8	1.63"-1.69"	41.4-42.93mm



(XSN)



(XRR)

To order, add fitting code to end of model numbers shown on pages 3-5.

EXTENDED BRAKE PEDAL

The need for extra access to the brake pedal is necessary in certain applications. For this reason, we also have the Extended Brake Pedal available on 100mm (4"), 125mm (5"), and 150mm (6") sizes. The Extended Brake Pedal allows for easier access to release the brake when the equipment or a bumper restricts access to the standard brake pedal. Please contact factory for ordering information.

Extended Brake Swivel Radius

Wheel Diameter	Total Lock & Directional Lock Swivel Radius
100mm (4")	113mm (4.45")
125mm (5")	113mm (4.45")
150mm (6")	123mm (4.84")



Standard Brake Pedal



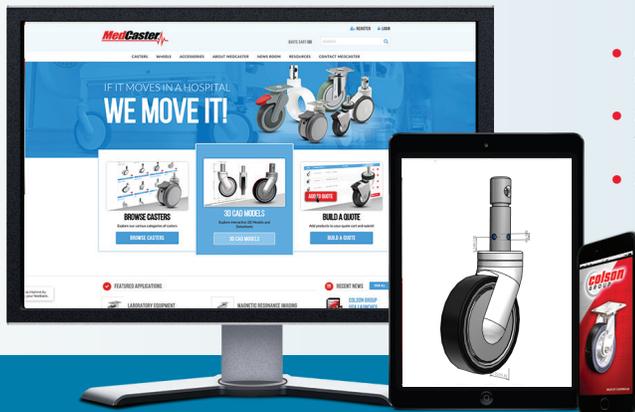
Extended Brake Pedal

DIRECTIONAL LOCK

**Directional Lock casters with RS01, RS02, RS03, and GR09 all come standard with the mounting hole in line with the caster's direction of travel when engaged. The hole location can also be set at 90 degrees to the direction of travel. This must be noted by adding @90 to the end of the part number.

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