

2020/21 Catalog



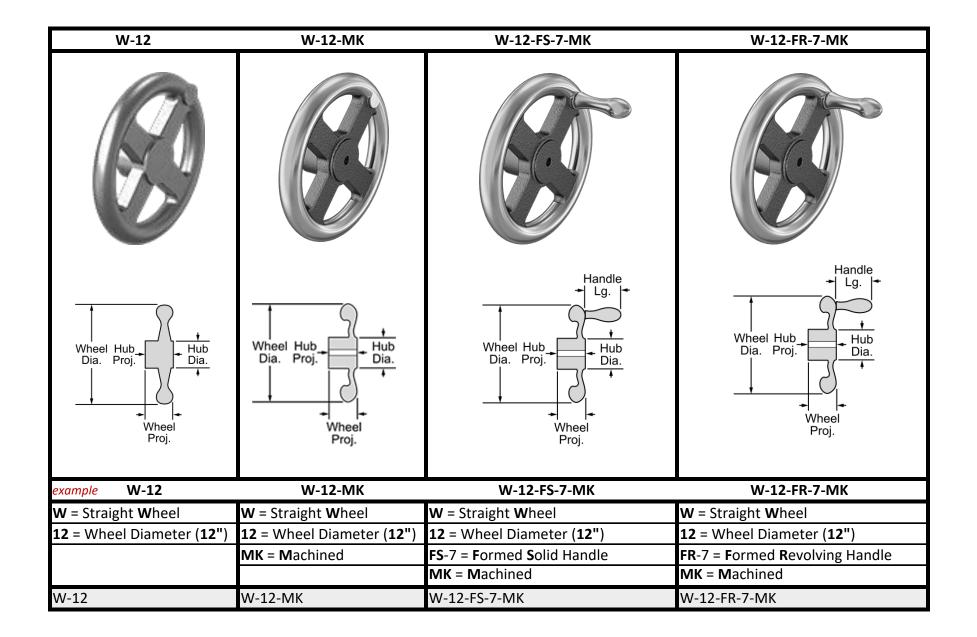




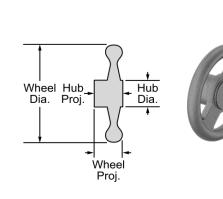
W Series - Cast Iron Handwheels, Straight

W-4	W-4-MK	W-4-FS-1-MK	W-4-FR-1-MK
60			
Wheel Hub Dia. Proj. Wheel Proj.	Wheel Hub Dia. Proj. + Hub Dia. Proj. + Dia. + Wheel Proj.	Handle Lg. Wheel Hub Dia. Proj. Wheel Proj.	Handle Lg. Wheel Hub Dia. Proj. Wheel Proj.
example: W-4	W-4-MK	W-4-FS-1-MK	W-4-FR-1-MK
W = Straight Wheel	W = Straight Wheel	W = Straight W heel	W = Straight W heel
4 = Wheel Diameter (4 ")	4 = Wheel Diameter (4 ")	4 = Wheel Diameter (4 ")	4 = Wheel Diameter (4'')
	MK = Machined	FS-1 = Formed Solid Handle	FR-1 = Formed Revolving Handle
		MK = Machined	MK = Machined
W-4	W-4-MK	W-4-FS-1-MK	W-4-FR-1-MK

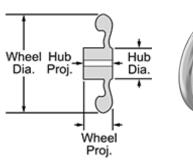
W-5 thru W-10	W-5-Mk thru W-10-MK	W-5-FS-1-MK thru W-10-FS-4-MK	W-5-FR-1-MK thru W-10-FR-4-MK
E			
Wheel Hub Dia. Proj. Wheel Proj.	Wheel Hub Dia. Proj. Wheel Proj.	Handle Lg. Hub Dia. Proj. Wheel Hub Dia. Proj. Wheel Proj.	Handle Understand Wheel Hub Dia. Proj. Wheel Proj.
example: W-5	W-5-MK	W-5-FS-1-MK	W-5-FR-1-MK
W = Straight Wheel	W = Straight W heel	W = Straight W heel	W = Straight W heel
5 = Wheel Diameter (5")	5 = Wheel Diameter (5")	5 = Wheel Diameter (5 ")	5 = Wheel Diameter (5")
	MK = Machined	FS-1 = Formed Solid Handle	FR-1 = Formed Revolving Handle
		MK = Machined	MK = Machined
W-5	W-5-MK	W-5-FS-1-MK	W-5-FR-1-MK
W-6	W-6-MK	W-6-FS-3-MK	W-6-FR-3-MK
W-8	W-8-MK	W-8-FS-4-MK	W-8-FR-4-MK
W-10	W-10-MK	W-10-FS-4-MK	W-10-FR-4-MK



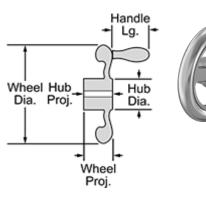
Straight Wheel Blank	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection
W-4	2	4"	1-1/8"	1-1/4"	1-1/8"
W-5	3	5"	1-1/8"	1-1/2"	1-1/8"
W-6	3	6"	1-1/4"	1-5/8"	1-1/4"
W-7	4	7"	2-1/4"	1-3/4"	3/4"
W-8	3	8"	1-1/2"	1-7/8"	1-1/2"
W-10	3	10"	2-1/4"	2-1/4"	2-1/4"
W-12	4	12"	3"	3"	3"
W-14	4	14"	3-7/16"	3-1/8"	3-7/16"
W-16	4	16"	3-3/4"	3-1/8"	3-3/4"



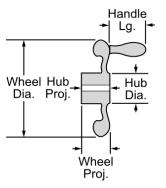
Straight Wheel Machined	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter
W-4-MK	2	4"	1-1/8"	1-1/4"	1-1/8"	1/4"
W-5-MK	3	5"	1-1/8"	1-1/2"	1-1/8"	5/16"
W-6-MK	3	6"	1-1/4"	1-5/8"	1-1/4"	5/16"
W-8-MK	3	8"	1-1/2"	1-7/8"	1-1/2"	3/8"
W-10-MK	3	10"	2-1/4"	2-1/4"	2-1/4"	1/2"
W-12-MK	4	12"	3"	3"	3"	5/8"



Straight Wheel Solid Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
W-4-FS-1-MK	2	4"	1-1/8"	1-1/4"	1-1/8"	1/4"	1-13/32"
W-5-FS-1-MK	3	5"	1-1/8"	1-1/2"	1-1/8"	5/16"	1-15/32"
W-6-FS-3-MK	3	6"	1-1/4"	1-5/8"	1-1/4"	5/16"	3-7/32"
W-8-FS-4-MK	3	8"	1-1/2"	1-7/8"	1-1/2"	3/8"	3-5/8"
W-10-FS-4-M	3	10"	2-1/4"	2-1/4"	2-1/4"	1/2"	3-5/8"
W-12-FS-7-M	4	12"	3"	3"	3"	5/8"	4-1/16"



Sraight Wheel Revolving Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
W-4-FR-1-MK	2	4"	1-1/8"	1-1/4"	1-1/8"	1/4"	2-1/16"
W-5-FR-1-MK	3	5"	1-1/8"	1-1/2"	1-1/8"	5/16"	2-1/16"
W-6-FR-3-MK	3	6"	1-1/4"	1-5/8"	1-1/4"	5/16"	3-1/2"
W-8-FR-4-MK	3	8"	1-1/2"	1-7/8"	1-1/2"	3/8"	3-9/32"
W-10-FR-4-M	3	10"	2-1/4"	2-1/4"	2-1/4"	1/2"	3-9/32"
W-12-FR-7-M	4	12"	3"	3"	3"	5/8"	4-3/16"





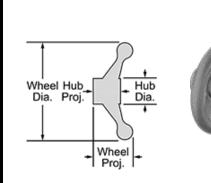
OW Series - Cast Iron Handwheels, Off-Set

OW-4	OW-4-MK	OW-4-FS-1-MK	OW-4-FR-1-MK
0			
Wheel Hub Dia. Proj. Wheel + Wheel + Proj.	Wheel Hub Dia. Proj. + Hub Dia. + Hub Proj. + Hub Proj. + Hub	Handle Lg. + Wheel Hub Dia. Proj. + Wheel Proj. + Wheel Proj.	Handle Lg. Wheel Hub Dia. Proj. Wheel Proj.
example OW-4	OW-4-MK	OW-4-FS-1-MK	OW-4-FR-1-MK
OW = O ff-Set W heel	OW = Off-Set Wheel	OW = O ff-Set W heel	OW = O ff-Set W heel
4 = Wheel Diameter (4'')	4 = Wheel Diameter (4'')	4 = Wheel Diameter (4 ")	4 = Wheel Diameter (4 ")
	MK = Machined	FS-1 = Formed Solid Handle	FR-1 = Formed Revolving Handle
		MK = Machined	MK = Machined
OW-4	OW-4-MK	OW-4-FS-1-MK	OW-4-FR-1-MK

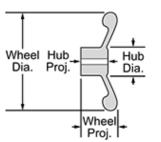
OW-5 thru W-10	OW-5-MK thru OW-10-MK	OW-5-FS-1-MK thru OW-10-FS-4-MK	OW-5-FR-1-MK thru OW-10-FR-4-MK
Wheel Hub Dia. Proj. Wheel Proj.	Wheel Hub Dia. Proj. + Hub Dia. + Dia. + Wheel Proj.	Handle Lg. Hub Dia. Proj. Wheel Hub Dia. Proj. Wheel Proj.	Handle Lg. Wheel Hub Dia. Proj. Wheel Proj.
example: OW-5	OW-5-MK	OW-5-FS-1-MK	OW-5-FR-1-MK
OW = O ff-Set W heel	OW = O ff-Set W heel	OW = O ff-Set W heel	OW = O ff-Set W heel
5 = Wheel Diameter (5")	5 = Wheel Diameter (5")	5 = Wheel Diameter (5")	5 = Wheel Diameter (5")
	MK = Machined	FS-1 = Formed Solid Handle	FR-1 = Formed Revolving Handle
		MK = Machined	MK = Machined
OW-5	OW-5-MK	OW-5-FS-1-MK	OW-5-FR-1-MK
OW-6	OW-6-MK	OW-6-FS-3-MK	OW-6-FR-3-MK
OW-8	OW-8-MK	OW-8-FS-4-MK	OW-8-FR-4-MK
OW-10	OW-10-MK	OW-10-FS-4-MK	OW-10-FR-4-MK

OW-12	OW-12-MK	OW-12-FS-7-MK	OW-12-FR-7-MK
Wheel Hub Dia. Proj. + Wheel Proj.	Wheel Hub Dia. Proj. + Hub Dia. + Dia. + Wheel + Proj. +	Handle Lg. + Uneel Hub Dia. Proj. + Wheel + Hub Dia. + Wheel + Proj. +	Handle Lg. + Wheel Hub Dia. Proj. + Wheel + Proj. +
example: OW-12	OW-12-MK	OW-12-FS-7-MK	OW-12-FR-7-MK
OW = O ff-Set W heel	OW = O ff-Set W heel	OW = O ff-Set W heel	OW = O ff-Set W heel
12 = Wheel Diameter (12")	12 = Wheel Diameter (12")	12 = Wheel Diameter (12 ")	12 = Wheel Diameter (12")
	MK = Machined	FS-7 = Formed Solid Handle	FR-7 = Formed Revolving Handle
		MK = Machined	MK = Machined
OW-12	OW-12-MK	OW-12-FS-7-MK	OW-12-FR-7-MK

Off-Set Wheel Blank	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection
OW-4	2	4"	1-1/2"	1-1/8"	1"
OW-5	3	5"	1-3/4"	1-1/4"	1-1/4"
OW-6	3	6"	1-7/8"	1-3/8"	1-1/4"
OW-7	4	7"	2-1/4"	1-5/8"	1-1/2"
OW-8	3	8"	2-1/2"	1-3/4"	1-3/4"
OW-9	3	9"	2-3/4"	2"	2"
OW-10	3	10"	3"	2-1/8"	2-1/8"
OW-12	4	12"	3-1/4"	2-1/2"	1-7/8"
OW-15	5	15"	2-1/8"	3-1/16"	1-5/8"
OW-18	5	18"	3-15/16"	3-1/8"	1-9/16"
OW-20	6	20"	3-15/16"	3-1/8"	1-9/16"

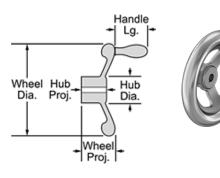


Off-Set Wheel Machined	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter
OW-4-MK	2	4"	1-1/2"	1-1/8"	1"	1/4"
OW-5-MK	3	5"	1-3/4"	1-1/4"	1-1/4"	5/16"
OW-6-MK	3	6"	1-7/8"	1-3/8"	1-1/4"	5/16"
OW-7-MK	3	7"	2-1/4"	1-5/8"	1-1/2"	3/8"
OW-8-MK	3	8"	2-1/2"	1-3/4"	1-3/4"	3/8"
OW-9-MK	3	9"	2-3/4"	2"	2"	1/2"
OW-10-MK	3	10"	3"	2-1/8"	2-1/8"	1/2"
OW-12-MK	4	12"	3-1/4"	2-1/2"	1-7/8"	5/8"

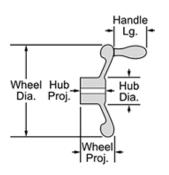




Off-Set Wheel Solid Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
OW-4-FS-1-M	2	4"	1-1/2"	1-1/8"	1"	1/4"	1-27/32"
OW-5-FS-1-M	3	5"	1-3/4"	1-1/4"	1-1/4"	5/16"	1-27/32"
OW-6-FS-3-M	3	6"	1-7/8"	1-3/8"	1-1/4"	5/16"	3-7/32"
OW-7-FS-3-M	3	7"	2-1/4"	1-5/8"	1-1/2"	3/8"	3-7/32"
OW-8-FS-4-M	3	8"	2-1/2"	1-3/4"	1-3/4"	3/8"	3-5/8"
OW-9-FS-4-M	3	9"	2-3/4"	2"	2"	1/2"	3-5/8"
OW-10-FS-4-N	3	10"	3"	2-1/8"	2-1/8"	1/2"	3-5/8"
OW-12-FS-7-N	4	12"	3-1/4"	2-1/2"	1-7/8"	5/8"	4-1/16"



Off-Set Wheel Rev. Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
OW-4-FR-1-M	2	4"	1-1/2"	1-1/8"	1"	1/4"	2-1/16"
OW-5-FR-1-M	3	5"	1-3/4"	1-1/4"	1-1/4"	5/16"	2-1/16"
OW-6-FR-3-M	3	6"	1-7/8"	1-3/8"	1-1/4"	5/16"	3-1/2"
OW-7-FR-3-M	3	7"	2-1/4"	1-5/8"	1-1/2"	3/8"	3-1/2"
OW-8-FR-4-M	3	8"	2-1/2"	1-3/4"	1-3/4"	3/8"	3-9/32"
OW-9-FR-4-M	3	9"	2-3/4"	2"	2"	1/2"	3-9/32"
OW-10-FR-4-1	3	10"	3"	2-1/8"	2-1/8"	1/2"	3-9/32"
OW-12-FR-7-1	4	12"	3-1/4"	2-1/2"	1-7/8"	5/8"	4-3/16"

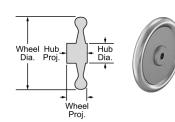




Handle Handle Lg. Lg. Wheel Hub Dia. Proj. Hub Wheel Hub Dia. Proj. Wheel Hub Dia. Proj. Wheel Hub Dia. Proj. Hub Hub Hub Dia. Dia. Dia. Dia. 4 4 4 ٠ + Wheel Proj. + * Wheel Proj. Wheel Proj. Wheel Proj. SW-4-MK SW-4-FS-1-MK SW-4-FR-1-MK example: SW-4 SW = Solid Wheel SW = Solid Wheel SW = Solid Wheel SW = Solid Wheel 4 = Wheel Diameter (4") **4** = Wheel Diameter (**4**") 4 = Wheel Diameter (4") **4** = Wheel Diameter (**4**") FR-1 = Formed Revolving Handle MK = Machined FS-1 = Formed Solid Handle MK = Machined MK = Machined

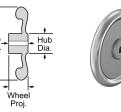
SW Series - Cast Iron Handwheels, Straight, Solid (Safety)

Solid Wheel Blank	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection
SW-4	Solid Straight	4"	1-1/8"	1-1/4"	1-1/8"
SW-5	Solid Straight	5"	1-3/8"	1-5/8"	1-3/8"
SW-6	Solid Straight	6"	1-1/4"	1-5/8"	1-1/4"
SW-10	Solid Straight	10"	2-1/4"	2-1/4"	2-1/4"

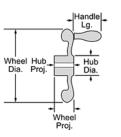


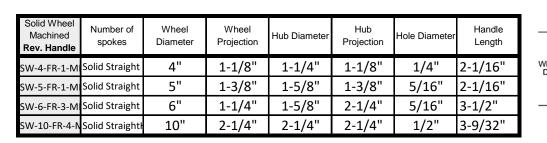
Wheel Hub Dia. Proj.

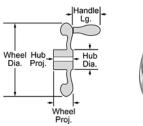
Solid Wheel Machined	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter
SW-4-MK	Solid Straight	4"	1-1/8"	1-1/4"	1-1/8"	1/4"
SW-5-MK	Solid Straight	5"	1-3/8"	1-5/8"	1-3/8"	5/16"
SW-6-MK	Solid Straight	6"	1-1/4"	1-5/8"	2-1/4"	5/16"
SW-10-MK	Solid Straight	10"	2-1/4"	2-1/4"	2-1/4"	1/2"



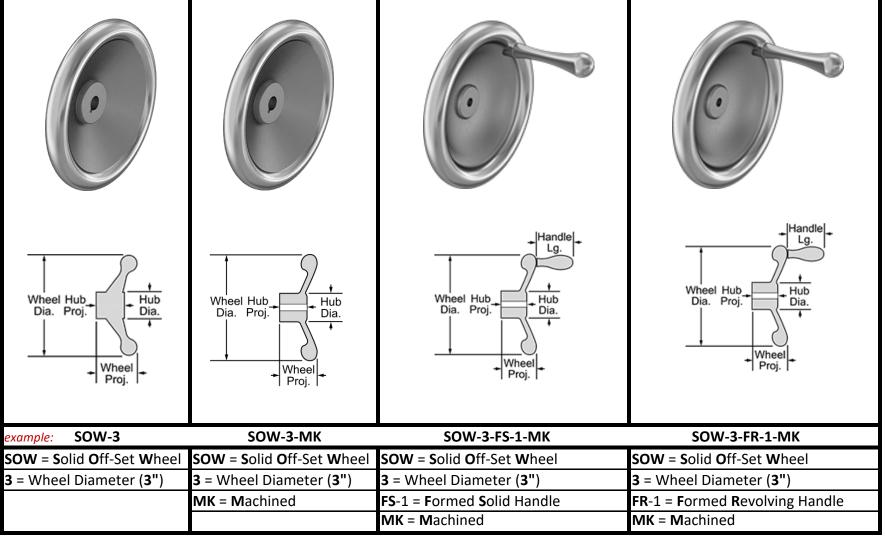
Solid Wheel Machined Solid Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
SW-4-FS-1-M	Solid Straight	4"	1-1/8"	1-1/4"	1-1/8"	1/4"	1-27/32"
SW-5-FS-1-M	Solid Straight	5"	1-3/8"	1-5/8"	1-3/8"	5/16"	1-27/32"
SW-6-FS-3-MI	Solid Straight	6"	1-1/4"	1-5/8"	2-1/4"	5/16"	3-7/32"
SW-10-FS-4-N	Solid Straight	10"	2-1/4"	2-1/4"	2-1/4"	1/2"	3-5/8"



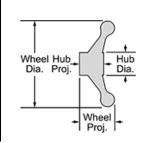




SOW Series - Cast Iron Handwheels, Off-Set, Solid (Safety)

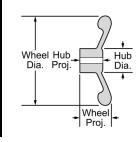


Solid Off-Set Wheel Blank	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection
SOW-3	Solid Off-Set H	3"	1"	3/4"	5/8"
SOW-4	Solid Off-Set H	4"	1-1/2"	1"	3/4"
SOW-6	Solid Off-Set H	6"	1-7/8"	1-1/4"	1"
SOW-8	Solid Off-Set H	8"	2-1/8"	1-5/8"	1-1/8"
SOW-9	Solid Off-Set H	9"	2-7/8"	2"	2-1/8"



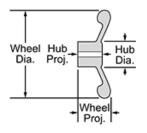


Solid Off-Set Wheel Machined	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diamete
SOW-3-MK	Solid Off-Set H	3"	1"	3/4"	5/8"	1/4"
SOW-4-MK	Solid Off-Set H	4"	1-1/2"	1"	3/4"	1/4"
SOW-6-MK	Solid Off-Set H	6"	1-7/8"	1-1/4"	1"	5/16"
SOW-8-MK	Solid Off-Set H	8"	2-1/8"	1-5/8"	1-1/8"	3/8"
SOW-9-MK	Solid Off-Set H	9"	2-7/8"	2"	2-1/8"	1/2"



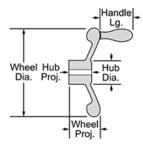


Solid Off-Set Wheel Solid Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
SOW-3-FS-0-N	Solid Off-Set H	4"	1"	3/4"	5/8"	1/4"	1-27/32"
SOW-4-FS-1-N	Solid Off-Set H	5"	1-1/2"	1"	3/4"	1/4"	1-27/32"
SOW-6-FS-3-N	Solid Off-Set H	6"	1-7/8"	1-1/4"	1"	5/16"	3-7/32"
SOW-8-FS-4-N	Solid Off-Set H	8"	2-1/8"	1-5/8"	1-1/8"	3/8"	3-5/8"
SOW-9-FS-4-N	Solid Off-Set H	9"	2-7/8"	2"	2-1/8"	1/2"	3-5/8"





Solid Off-Set Wheel Rev. Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
SOW-3-FR-0-N	Solid Off-Set H	4"	1"	3/4"	5/8"	1/4"	2-1/16"
SOW-4-FR-1-N	Solid Off-Set H	5"	1-1/2"	1"	3/4"	1/4"	2-1/16"
SOW-6-FR-3-N	Solid Off-Set H	6"	1-7/8"	1-1/4"	1"	5/16"	3-1/2"
SOW-8-FR-4-N	Solid Off-Set H	8"	2-1/8"	1-5/8"	1-1/8"	3/8"	3-9/32"
SOW-9-FR-4-M	Solid Off-Set H	9"	2-7/8"	2"	2-1/8"	1/2"	3-9/32"

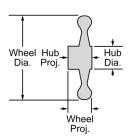




Handle Handle Lg. Lg. Wheel Hub Hub Wheel Hub Hub Wheel Hub Dia. Proj. Wheel Hub_ Hub Hub Dia. Proj. Dia. Dia. Proj. Dia. Dia. Proj. Dia. Dia. . 4 • Wheel Wheel Proj. Wheel Proj. Wheel Proj. Proj. AW-4 AW-4-MK AW-4-FS-1-MK AW-4-FR-1-MK example: AW = Aluminum Straight WAW = Aluminum Straight **VAW** = Aluminum Straight **W**heel AW = Aluminum Straight Wheel 4 = Wheel Diameter (4") **4** = Wheel Diameter (**4''**) 4 = Wheel Diameter (4") 4 = Wheel Diameter (4") FR-1 = Formed Revolving Handle MK = Machined FS-1 = Formed Solid Handle MK = Machined MK = Machined

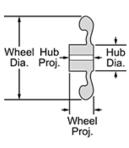
AW Series - Cast Aluminum Handwheels, Straight

Straight Wheel Blank	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection
AW-4	2	4"	1-1/8"	1-1/4"	1-1/8"
AW-6	3	6"	1-1/4"	1-5/8"	1-1/4"
AW-8	3	8"	1-1/2"	1-7/8"	1-1/2"
AW-10	3	10"	2-1/4"	2-1/4"	2-1/4"
AW-12	4	12"	3"	3"	3"



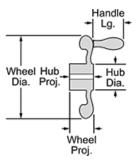


Straight Wheel Machined	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diamete
AW-4-MK	2	4"	1-1/8"	1-1/4"	1-1/8"	1/4"
AW-6-MK	3	6"	1-1/4"	1-5/8"	1-1/4"	5/16"
AW-8-MK	3	8"	1-1/2"	1-7/8"	1-1/2"	3/8"
AW-10-MK	3	10"	2-1/4"	2-1/4"	2-1/4"	1/2"
AW-12-MK	4	12"	3"	3"	3"	5/8"



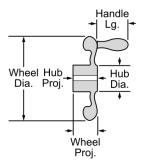


Straight Wheel Solid Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
AW-4-FS-1-M	2	4"	1-1/8"	1-1/4"	1-1/8"	1/4"	1-27/32"
AW-6-FS-3-M	3	6"	1-1/4"	1-5/8"	1-1/4"	5/16"	3-7/32""
AW-8-FS-4-M	3	8"	1-1/2"	1-7/8"	1-1/2"	3/8"	3-5/8"
AW-10-FS-4-N	3	10"	2-1/4"	2-1/4"	2-1/4"	1/2"	3-5/8"
AW-12-FS-7-N	4	12"	3"	3"	3"	5/8"	4-1/16"

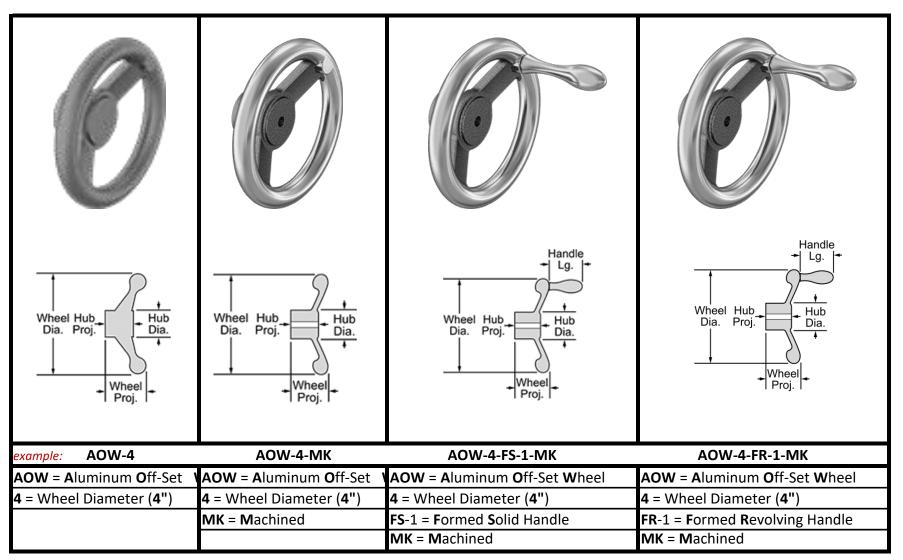




Sraight Wheel Rev. Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
AW-4-FR-1-M	2	4"	1-1/8"	1-1/4"	1-1/8"	1/4"	2-1/16"
AW-6-FR-3-M	3	6"	1-1/4"	1-5/8"	1-1/4"	5/16"	3-1/2"
AW-8-FR-4-M	3	8"	1-1/2"	1-7/8"	1-1/2"	3/8"	3-9/32"
AW-10-FR-4-N	3	10"	2-1/4"	2-1/4"	2-1/4"	1/2"	3-9/32"
AW-12-FR-7-N	4	12"	3"	3"	3"	5/8"	4-3/16"





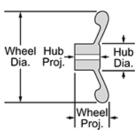


AOW Series - Cast Aluminum Handwheels, Off-Set

Off-Set Wheel Blank	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection
AOW-4	2	4"	1-1/2"	1-1/8"	1"
AOW-6	3	6"	1-7/8"	1-3/8"	1-1/4"
AOW-8	3	8"	2-1/2"	1-3/4"	1-3/4"
AOW-10	3	10"	3"	2-1/8"	2-1/8"
AOW-12	4	12"	3-1/4"	2-1/2"	1-7/8"

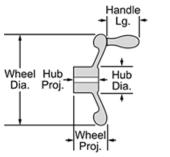


Off-Set Wheel Machined	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter
AOW-4-MK	2	4"	1-1/2"	1-1/8"	1"	1/4"
AOW-6-MK	3	6"	1-7/8"	1-3/8"	1-1/4"	5/16"
AOW-8-MK	3	8"	2-1/2"	1-3/4"	1-3/4"	3/8"
AOW-10-MK	3	10"	3"	2-1/8"	2-1/8"	1/2"
AOW-12-MK	4	12"	3-1/4"	2-1/2"	1-7/8"	5/8"



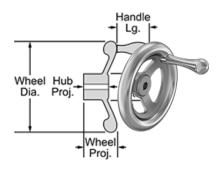


Off-Set Wheel Solid Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
AOW-4-FS-1-I	2	4"	1-1/2"	1-1/8"	1"	1/4"	1-27/32"
AOW-6-FS-3-N	3	6"	1-7/8"	1-3/8"	1-1/4"	5/16"	3-7/32"
AOW-8-FS-4-I	3	8"	2-1/2"	1-3/4"	1-3/4"	3/8"	3-5/8"
AOW-10-FS-4	3	10"	3"	2-1/8"	2-1/8"	1/2"	3-5/8"
AOW-12-FS-7	4	12"	3-1/4"	2-1/2"	1-7/8"	5/8"	4-1/16"





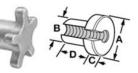
Off-Set Wheel Rev. Handle	Number of spokes	Wheel Diameter	Wheel Projection	Hub Diameter	Hub Projection	Hole Diameter	Handle Length
AOW-4-FR-1-I	2	4"	1-1/2"	1-1/8"	1"	1/4"	2-1/16"
AOW-6-FR-3-I	3	6"	1-7/8"	1-3/8"	1-1/4"	5/16"	3-1/2"
AOW-8-FR-4-I	3	8"	2-1/2"	1-3/4"	1-3/4"	3/8"	3-9/32"
AOW-10-FR-4	3	10"	3"	2-1/8"	2-1/8"	1/2"	3-9/32"
AOW-12-FR-7	4	12"	3-1/4"	2-1/2"	1-7/8"	5/8"	4-3/16"



5K Series - Cast Iron Knobs, 5 Prongs (Arms)

HAD-CAL	B F-D-C/-	B FAD-CA	B B F A D
example: 5K-1	5K-1-RM	5K-1-TP	5K-1-TPS
5K = 5 Prong Knob	5K = 5 Prong Knob	5K = 5 Prong K nob	5K = 5 Prong Knob
	RM = Reamed	TP = T apped Thru Hole	TP = T apped Thru Hole S = S et Screw

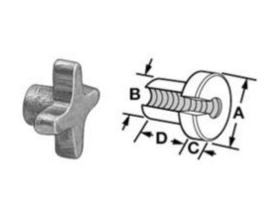
5 Prong Knob	A - Head Diameter	C - Head Height	B - Hub Diameter	D - Hub Height	Reamed Hole Size	Tapped Hole Size	Set Screw
5K-1	3"	1/2"	1-1/4"	1-1/4"	n/a	n/a	n/a
5K-1-RM	3"	1/2"	1-1/4"	1-1/4"	5/8"	n/a	n/a
5K-1-TP	3"	1/2"	1-1/4"	1-1/4"	n/a	5/8"-11	n/a
5K-1-TPS	3"	1/2"	1-1/4"	1-1/4"	n/a	5/8"-11	1/4"-20
5K-2	3 1/4"	1/2"	1-1/8"	1"	n/a	n/a	n/a
5K-2-RM	3 1/4"	1/2"	1-1/8"	1"	3/4"	n/a	n/a
5K-2-TP	3 1/4"	1/2"	1-1/8"	1"	n/a	3/4"-10	n/a
5K-2-TPS	3 1/4"	1/2"	1-1/8"	1"	n/a	3/4"-10	1/4"-20

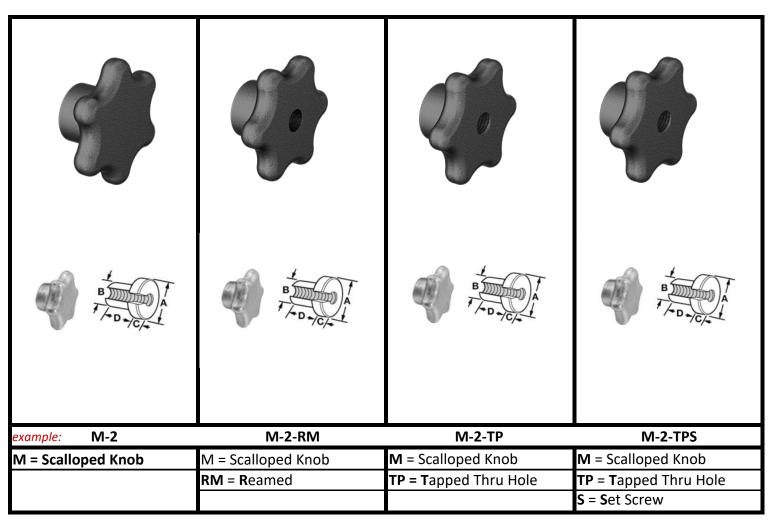


4K-4-TPS 4K-4 4K-4-RM 4K-4-TP example: 4K = 4 Prong Knob 4K = 4 Prong Knob 4K = 4 Prong Knob **4K = 4** Prong **K**nob **TP = T**apped Thru Hole **TP** = **T**apped Thru Hole RM = Reamed **S** = **S**et Screw

4K Series - Cast Iron Knobs, 4 Prong (Arms)

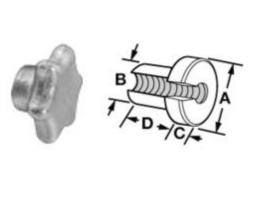
4 Prong Knob	A - Head Diameter	C - Head Height	B - Hub Diameter	D - Hub Height	Reamed Hole Size	Tapped Hole Size	Set Screw
4K-2	1-1/8"	5/16"	9/16"	3/8"	n/a	n/a	n/a
4K-2-RM	1-1/8"	5/16"	9/16"	3/8"	1/4"	n/a	n/a
4K-2-TP	1-1/8"	5/16"	9/16"	3/8"	n/a	1/4"-20	n/a
4K-3	1-1/2"	7/16"	5/8"	9/16"	n/a	n/a	n/a
4K-3-RM	1-1/2"	7/16"	5/8"	9/16"	5/16"	n/a	n/a
4K-3-TP	1-1/2"	7/16"	5/8"	9/16"	n/a	5/16"-18	n/a
4K-4	2"	7/16"	3/4"	9/16"	n/a	n/a	n/a
4K-4-RM	2"	7/16"	3/4"	9/16"	3/8"	n/a	n/a
4K-4-TP	2"	7/16"	3/4"	9/16"	n/a	3/8"-16	n/a
4K-4-TPS	2"	7/16"	3/4"	9/16"	n/a	3/8"-16	1/4"-20
4K-5	2-9/16"	1/2"	1-1/8"	1"	n/a	n/a	n/a
4K-5-RM	2-9/16"	1/2"	1-1/8"	1"	1/2"	n/a	n/a
4K-5-TP	2-9/16"	1/2"	1-1/8"	1"	n/a	1/2"-13	n/a
4K-5-TPS	2-9/16"	1/2"	1-1/8"	1"	n/a	1/2"-13	1/4"-20
4K-6	2-1/2"	1/2"	1"	1-3/4"	n/a	n/a	n/a
4K-6-RM	2-1/2"	1/2"	1"	1-3/4"	5/8"	n/a	n/a
4K-6-TP	2-1/2"	1/2"	1"	1-3/4"	n/a	5/8"-11	n/a
4K-6-TPS	2-1/2"	1/2"	1"	1-3/4"	n/a	5/8"-11	1/4"-20

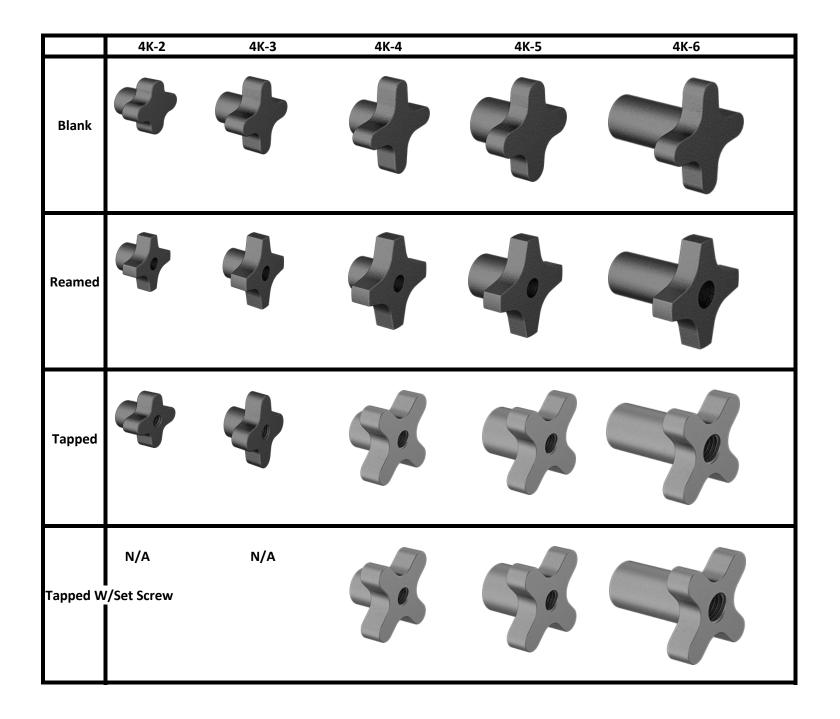


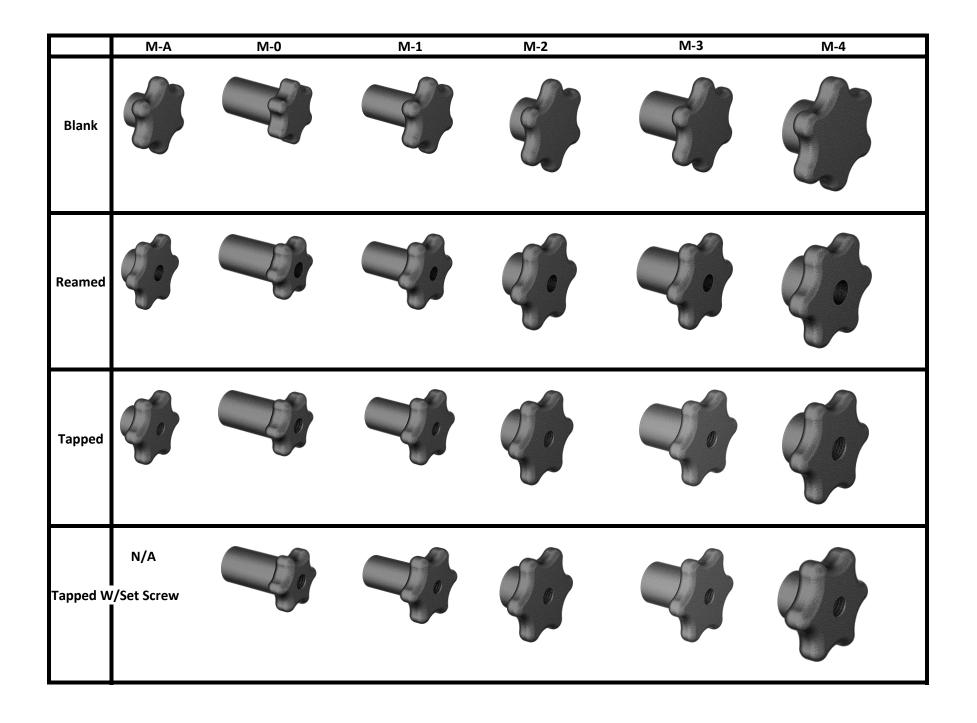


M Series - Cast Iron Knobs, Scalloped (Lobed, Star)

M - Scalloped Knob	A - Head Diameter	C - Head Height	B - Hub Diameter	D - Hub Height	Reamed Hole Size	Tapped Hole Size	Set Screw
M-A	2"	1/2"	7/8"	1/2"	n/a	n/a	n/a
M-A-RM	2"	1/2"	7/8"	1/2"	3/8"	n/a	n/a
M-A-TP	2"	1/2"	7/8"	1/2"	n/a	3/8"-16	n/a
M-0	1-1/2"	1/2"	7/8"	1-1/2"	n/a	n/a	n/a
M-0-RM	1-1/2"	1/2"	7/8"	1-1/2"	3/8"	n/a	n/a
M-0-TP	1-1/2"	1/2"	7/8"	1-1/2"	n/a	3/8"-16	n/a
M-0-TPS	1-1/2"	1/2"	7/8"	1-1/2"	n/a	3/8"-16	n/a
M-1	2"	1/2"	7/8"	1-1/2"	n/a	n/a	n/a
M-1-RM	2"	1/2"	7/8"	1-1/2"	3/8"	n/a	n/a
M-1-TP	2"	1/2"	7/8"	1-1/2"	n/a	3/8"-16	n/a
M-1-TPS	2"	1/2"	7/8"	1-1/2"	n/a	3/8"-16	1/4"-20
M-2	2-3/4"	1/2"	1-1/4"	3/4"	n/a	n/a	n/a
M-2-RM	2-3/4"	1/2"	1 1/4"	3/4"	1/2"	n/a	n/a
M-2-TP	2-3/4"	1/2"	1 1/4"	3/4"	n/a	1/2"-13	n/a
M-2-TPS	2-3/4"	1/2"	1 1/4"	3/4"	n/a	1/2"-13	1/4"-20
M-3	2-3/4"	1/2"	1-1/4"	1-1/2"	n/a	n/a	n/a
M-3-RM	2-3/4"	1/2"	1-1/4"	1-1/2"	1/2"	n/a	n/a
M-3-TP	2-3/4"	1/2"	1-1/4"	1-1/2"	n/a	1/2"-13	n/a
M-3-TPS	2-3/4"	1/2"	1-1/4"	1-1/2"	n/a	1/2"-13	1/4"-20
M-4	3-1/2"	5/8"	1-5/8"	7/8"	n/a	n/a	n/a
M-4-RM	3-1/2"	5/8"	1-5/8"	7/8"	3/4"	n/a	n/a
M-4-TP	3-1/2"	5/8"	1-5/8"	7/8"	n/a	3/4"-10	n/a
M-4-TPS	3-1/2"	5/8"	1-5/8"	7/8"	n/a	3/4"-10	1/4"-20

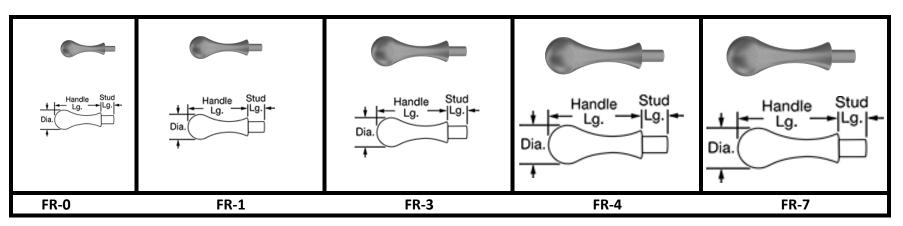






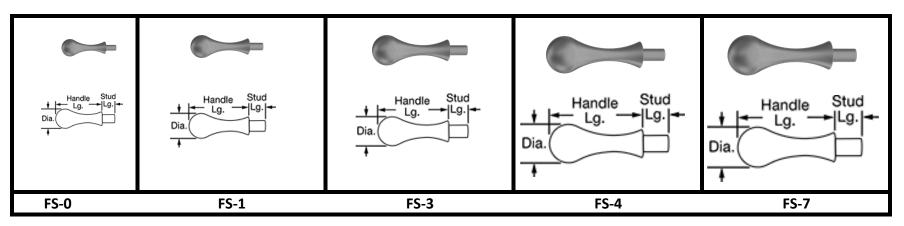
	5K-1	5K-2
Blank		
Reamed		
Tapped		
Tapped W	//Set Screw	

FR Series - Steel Handle (Formed, Revolving)



FR - Handle	Stud Diameter	Stud Length	Handle Length	Handle Diameter
FR-0	1/4"	7/16"	1-15/32"	11/16"
FR-1	5/16"	9/16"	2-1/16"	7/8"
FR-3	3/8"	3/4"	3-1/2"	1-1/8"
FR-4	7/16"	3/4"	3-9/32"	1-1/4"
FR-7	1/2"	15/16"	4-3/16"	1-3/8"

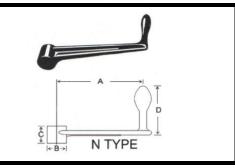
FS Series - Steel Handle (Formed, Solid)



FS - Handle	Stud Diameter	Stud Length	Handle Length	Handle Diameter
FS-0	1/4"	7/16"	1-15/32"	5/8"
FS-1	5/16"	7/16"	1-23/32"	3/4"
FS-3	3/8"	11/16"	3-7/32"	1-3/16"
FS-4	7/16"	15/16"	3-5/8"	1-1/4"
FS-7	1/2"	15/16"	4-1/16"	1-3/8"

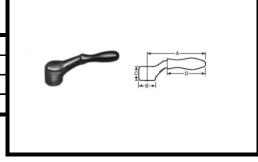
N-Series - Cast Ductile Iron Lever (Crank)

Crank Lever Blank	Pivotal Length "A"	Hub Diameter "B"	Hub Length "C"	Grip Length "D"
N-1	4"	1-1/4"	1-1/4"	3/1/8"
N-2	6"	1-3/8"	1-3/8"	3-1/4"
N-3	8"	1-5/8"	1-1/2"	3-1/4"
N-4	10"	1-7/8"	1-3/4"	3-7/8"
N-5	12"	2"	1-3/4"	3-7/8"
N-6	16"	2-1/2"	2-1/4"	3-7/8"



H-Series - Cast Ductile Iron Lever (Clamp)

Crank Lever Blank	Pivotal Length "A"	Hub Diameter "B"	Hub Length "C"	Grip Length "D"	
H-1	3-7/8"	1-1/8"	13/16"	2-1/4"	
H-2	4-1/2"	1-1/8"	1-1/8"	2-5/8"	
H-3	5"	1-1/4"	1-1/4"	2-7/8"	
H-4	5-3/4"	1-7/16"	1-3/8"	3-7/16"	



T-Series - Cast Ductile Iron handle (Straight, Speed Handle)

Crank Lever Blank	Handle Length "A"	Hub Diameter "B"	Hub Length "C"
TK-5	5"	1-1/8"	2"

