



# HAND KNOBS & HAND SCREWS

Metal Hand Knobs & Hand Screws..... 11-1 to 11-27

Plastic Hand Knobs & Hand Screws..... 11-28 to 11-51

Ball Knobs..... 11-52 to 11-66

Wing Nuts & Wing Screws..... 11-67 to 11-77

Multi Lobe Hand Knobs & Hand Screws..... 11-78 to 11-103

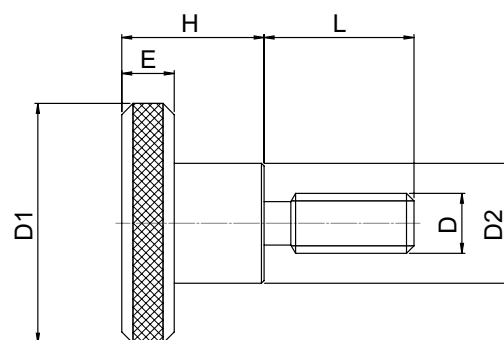
Control Knobs..... 11-104 to 11-107

# WDS 521


## Knurled Locking Screw

**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish

See 817 Series for this part in  
Stainless Steel



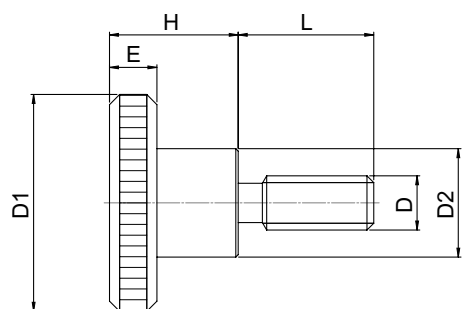
**Related Products:** C-Washers, Captive C-Washers

D	L	D1	D2	E	H	 (g)	WDS No.
M4	10	16	8	3.5	9.5	8	521-20110
M4	15	16	8	3.5	9.5	15	521-20115
M4	20	16	8	3.5	9.5	15	521-20120
M5	10	19	10	4	11.5	14	521-20210
M5	15	19	10	4	11.5	15	521-20215
M5	20	19	10	4	11.5	15	521-20220
M6	15	25	12	5	15	31	521-20315
M6	20	25	12	5	15	32	521-20320
M6	25	25	12	5	15	33	521-20325
M8	15	28	16	6	18	50	521-20415
M8	20	28	16	6	18	55	521-20420
M8	25	28	16	6	18	58	521-20425
M10	25	35	20	8	23	105	521-20525
M10	30	35	20	8	23	110	521-20530
M10	40	35	20	8	23	120	521-20540
M12	25	40	22	10	25	150	521-20625
M12	40	40	22	10	25	175	521-20640

## We Won't Give you the Cold Shoulder

**BRAND NEW**  
**316**  
**Stainless**  
**Shoulder**  
**Bolts**  
**FROM WDS**






## WDS 817

### Thumb Screw

**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316S11

**316**

See 521 Series for this part  
in Steel

D	L	D1	D2	E	H	 (g)	WDS No.
M4	10	16	8	3.5	9.5	8	817-20410
M4	15	16	8	3.5	9.5	9	817-20415
M4	20	16	8	3.5	9.5	10	817-20420
M5	10	20	10	4	11.5	15	817-20510
M5	15	20	10	4	11.5	17	817-20515
M5	20	20	10	4	11.5	19	817-20520
M6	15	25	12	5	15	25	817-20615
M6	20	25	12	5	15	30	817-20620
M6	25	25	12	5	15	35	817-20625
M8	15	30	16	6	18	50	817-20815
M8	20	30	16	6	18	55	817-20820
M8	25	30	16	6	18	60	817-20825
M10	20	35	20	8	23	100	817-21020
M10	25	35	20	8	23	110	817-21025
M10	30	35	20	8	23	120	817-21030

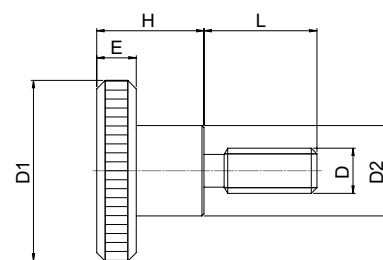
# WDS 8917

## Thumb Screw

**MATERIAL -**  
Stainless Steel  
BS 970 Gr 303S31

**303**

See 521 Series for this part in  
Steel



D	L	D1	D2	E	H	⚖️ (g)	WDS No.
M4	10	16	8	3.5	9.5	8	8917-20410
M4	15	16	8	3.5	9.5	9	8917-20415
M4	20	16	8	3.5	9.5	10	8917-20420
M5	10	20	10	4	11.5	15	8917-20510
M5	15	20	10	4	11.5	17	8917-20515
M5	20	20	10	4	11.5	19	8917-20520
M6	15	25	12	5	15	25	8917-20615
M6	20	25	12	5	15	30	8917-20620
M6	25	25	12	5	15	35	8917-20625
M8	15	30	16	6	18	50	8917-20815
M8	20	30	16	6	18	55	8917-20820
M8	25	30	16	6	18	60	8917-20825
M10	20	35	20	8	23	100	8917-21020
M10	25	35	20	8	23	110	8917-21025
M10	30	35	20	8	23	120	8917-21030

## Ready to Take the Plunge?

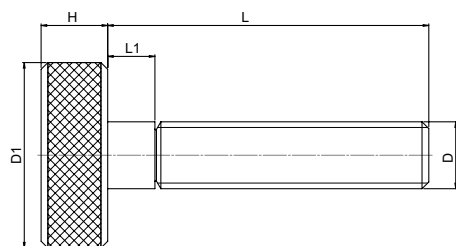
We have a range of sizes and specifications  
to suit any application



## Section 4







# WDS 605

## Adjusting Screw

**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish

See 808 Series for this part in  
Stainless Steel

### Related Products: Screwed Clamp

Metric

D	L	H	D1	L1	(g)	WDS No.
M4	25	5	12	3	5	605-200425
M4	35	5	12	3	7	605-200435
M4	45	5	12	3	10	605-200445
M5	30	5	12	4	10	605-200530
M5	40	5	12	4	12	605-200540
M5	50	5	12	4	14	605-200550
M6	35	6	16	5	15	605-20135
M6	50	6	16	5	21	605-20150
M6	75	6	16	5	25	605-20175
M8	45	8	22	6	40	605-20245
M8	60	8	22	6	43	605-20260
M8	75	8	22	6	48	605-20275
M8	100	8	22	6	55	605-202100
M10	45	10	25	7	54	605-20345
M10	60	10	25	7	71	605-20360
M10	75	10	25	7	75	605-20375
M10	100	10	25	7	90	605-203100
M12	45	12	32	8	100	605-20445
M12	60	12	32	8	115	605-20460
M12	75	12	32	8	130	605-20475
M12	100	12	32	8	155	605-204100

Inch

D	L	H	D1	L1	(g)	WDS No. BA/BSF	WDS No. BSW	WDS No. UNC
2 BA	1	6.4	16	4	10	605-011	-	-
2 BA	1 1/2	6.4	16	4	15	605-01112	-	-
2BA	2	6.4	16	4	15	605-012	-	-
10 UNC	1	6.4	16	4	10	-	-	605-101
10 UNC	2	6.4	16	4	15	-	-	605-102
1/4	1	6.4	16	4.8	15	605-021	605-061	605-111
1/4	1 1/2	6.4	16	4.8	18	605-02112	605-06112	605-11112
1/4	2	6.4	16	4.8	20	605-022	605-062	605-112
5/16	1	7.9	22	5.6	30	605-031	-	605-121
5/16	1 1/2	7.9	22	5.6	35	605-03112	-	605-12112
5/16	2	7.9	22	5.6	40	605-032	-	605-122
5/16	3	7.9	22	5.6	45	-	-	605-123
3/8	1 1/2	9.5	25	6.4	40	-	-	605-13112
3/8	3	9.5	25	6.4	75	605-043	-	-
3/8	2	9.5	25	6.4	60	-	-	605-132
3/8	3	9.5	25	6.4	75	-	-	605-133

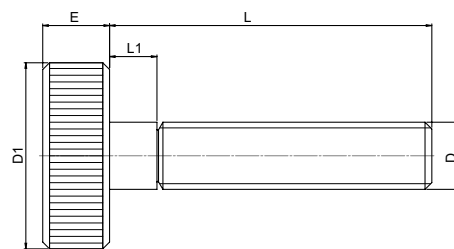
# WDS 808

## Adjusting Screw

**MATERIAL -**  
Stainless Steel BS 970 Gr  
316S11

**316**

See 605 Series for this part  
in Steel



D	L	D1	E	L1	⚖️ (g)	WDS No.
M4	25	12	5	3	7	808-20425
M5	30	12	5	3	9	808-20530
M5	40	12	5	3	10.5	808-20540
M5	50	12	5	3	12	808-20550
M6	30	16	6	5	15	808-20630
M6	40	16	6	5	17	808-20640
M6	50	16	6	5	20	808-20650
M8	40	22	8	6	35	808-20840
M8	50	22	8	6	37	808-20850
M8	60	22	8	6	40	808-20860
M10	50	25	10	8	65	808-21050
M10	60	25	10	8	70	808-21060
M10	70	25	10	8	75	808-21070
M12	60	30	12	10	110	808-21260
M12	80	30	12	10	125	808-21280

Brand new 316 Stainless Steel

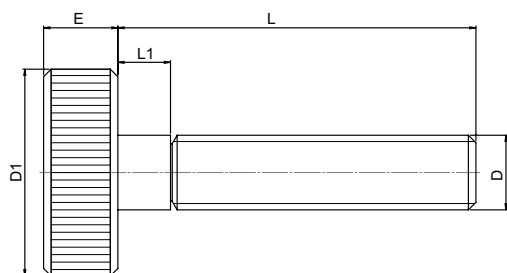


# THUMB KNOBS



in two attractive finishes

Section 11



# WDS 8908

## Adjusting Screw

**MATERIAL -**  
Stainless Steel BS 970 Gr 303S31

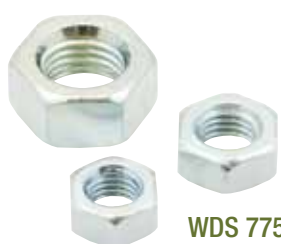
**303**

See 605 Series for this part in Steel

D	L	D1	E	L1	⚖️ (g)	WDS No.
M6	30	16	6	5	15	8908-20630
M6	40	16	6	5	17	8908-20640
M6	50	16	6	5	20	8908-20650
M8	40	22	8	6	35	8908-20840
M8	50	22	8	6	37	8908-20850
M8	60	22	8	6	40	8908-20860
M10	50	25	10	8	65	8908-21050
M10	60	25	10	8	70	8908-21060
M10	70	25	10	8	75	8908-21070

Also Available  
Nuts and Washers.

See Section 8.



WDS 775



WDS 875



WDS 776



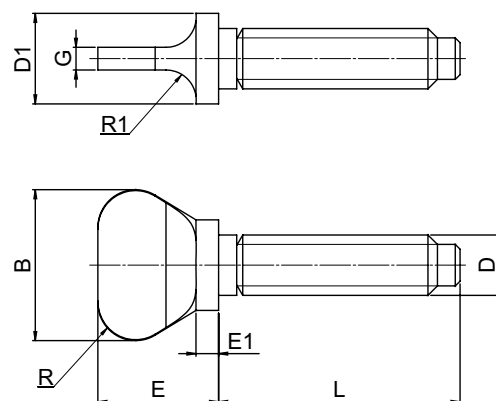
WDS 876

# WDS 667


## Wing Screw

**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish


See 835 Series for this part in  
Stainless Steel



Metric

D	L	B	D1	E	E1	G	R	R1	 (g)	WDS No.
M4	20	14	8	12	1.5	4	4	3	5	667-200420
M4	30	14	8	12	1.5	4	4	3	6	667-200430
M5	25	14	8	12	2	4	4	3	7	667-200525
M5	35	14	8	12	2	4	4	3	8	667-200535
M6	25	16	10	14	2.5	4	4	3	9	667-20125
M6	40	16	10	14	2.5	4	4	3	11	667-20140
M6	50	16	10	14	2.5	4	4	3	14	667-20150
M8	40	20	13	18	3	4	5.5	3	21	667-20240
M8	50	20	13	18	3	4	5.5	3	25	667-20250
M8	60	20	13	18	3	4	5.5	3	30	667-20260
M10	40	25	16	22	5	4	6.5	3	40	667-20340
M10	55	25	16	22	5	4	6.5	3	45	667-20355

Inch

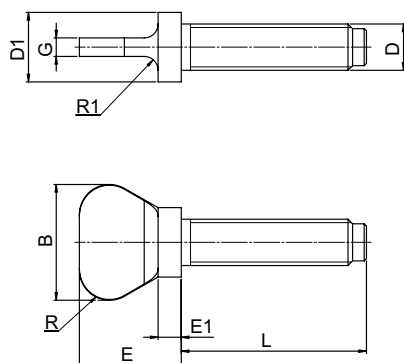
D	L	B	D1	E	E1	G	R	R1	 (g)	WDS No. UNC
1/4	1	15.9	9.5	12.7	2.4	4	4	3	10	667-31
1/4	1 1/2	15.9	9.5	12.7	2.4	4	4	3	10	667-32
1/4	2	15.9	9.5	12.7	2.4	4	4	3	15	667-33
5/16	1	19.1	12.7	17.5	3.2	4	5.6	3	15	667-34
5/16	1 1/2	19.1	12.7	17.5	3.2	4	5.6	3	20	667-35
5/16	2	19.1	12.7	17.5	3.2	4	5.6	3	25	667-36
3/8	2 1/2	25.4	15.9	22.2	4.8	4	6.4	3	50	667-39

# Don't *Fly* off the Handle!

We have one to suit  
every purpose.

## Section 16






## WDS 835

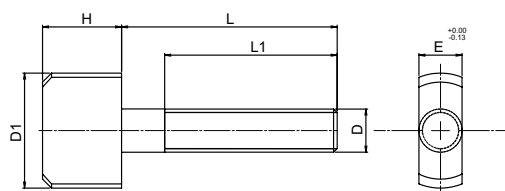
### Wing Screw

**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316S11

**316**

See 667 Series for this part in Steel

D	L	B	D1	E	E1	G	R	R1	 (g)	WDS No.
M5	25	14	8	12	2	4	4	3	7	835-20525
M5	35	14	8	12	2	4	4	3	8	835-20535
M6	25	16	10	14	2.5	4	4	3	9	835-20625
M6	40	16	10	14	2.5	4	4	3	11	835-20640
M6	50	16	10	14	2.5	4	4	3	14	835-20650
M8	35	20	13	18	3	4	5.5	3	19	835-20835
M8	50	20	13	18	3	4	5.5	3	25	835-20850
M10	40	25	15	22	5	4	6.5	3	40	835-21040
M10	55	25	15	22	5	4	6.5	3	45	835-21055




## WDS 604

### Quarter Turn Screw

**MATERIAL -**  
Steel BS.970 Gr.212A42  
Chemical black finish

See 834 Series for this part in Stainless Steel

D	L	D1	E	H	L1	 (g)	WDS No.
M4	25	16	4	12	20	10	604-2004
M5	30	20	5	16	25	15	604-2005
M6	30	20	6	16	25	21	604-201
M8	40	25	8	20	30	43	604-202
M10	50	25	10	20	38	64	604-203
M12	60	32	12	22	48	110	604-204

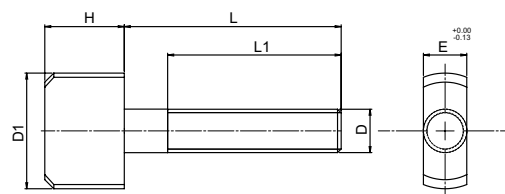
# WDS 834

## Quarter Turn Screw

MATERIAL -  
Stainless Steel  
BS 970 Gr 316S11

316

See 604 Series for this part  
in Steel



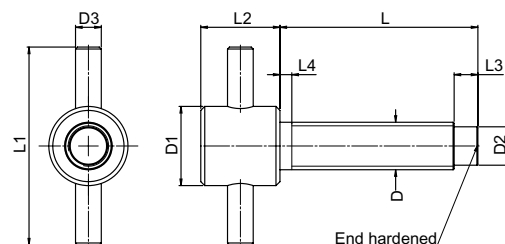
D	L	D1	E	H	L1	⚖️ (g)	WDS No.
M6	30	20	6	16	25	21	834-20630
M8	40	25	8	20	30	43	834-20840
M10	50	25	10	20	38	64	834-21050

# WDS 663

## Tommy Bar Screw

MATERIAL -  
Steel BS.970 Gr.212A42  
Chemical black finish

See 833 Series for this part in  
Stainless Steel



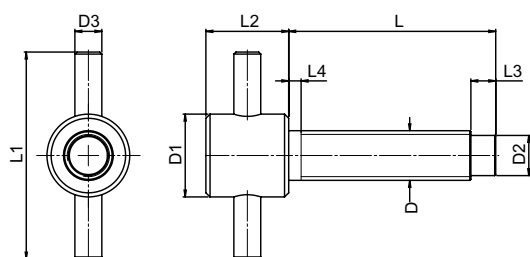
Metric

D	L	D1	D2	D3	L1	L2	L3	L4	⚖️ (g)	WDS No.
M5	25	10	3.7	5	32	12	3	3	10	663-200525
M6	25	10	4.5	5	32	12	3	3	11	663-20125
M6	35	10	4.5	5	32	12	3	3	16	663-20135
M6	50	10	4.5	5	32	12	3	3	20	663-20150
M8	25	12	6.2	5	45	14	4	3	20	663-20225
M8	35	12	6.2	5	45	14	4	3	23	663-20235
M8	50	12	6.2	5	45	14	4	3	48	663-20250
M10	35	16	8	5	45	16	6	3	42	663-20335
M10	50	16	8	5	45	16	6	3	48	663-20350
M10	60	16	8	5	45	16	6	3	57	663-20360
M12	50	20	9.7	6.5	50	20	6	3	80	663-20450
M12	75	20	9.7	6.5	50	20	6	3	105	663-20475
M12	100	20	9.7	6.5	50	20	6	3	120	663-204100

Inch

D	L	D1	D2	D3	L1	L2	L3	L4	⚖️ (g)	UNC
5/16	2	12.7	5.6	4.8	45	12.7	4.8	3	30	663-222
3/8	2	15.9	7.1	4.8	44.5	15.9	6.4	3	50	663-232





## WDS 833

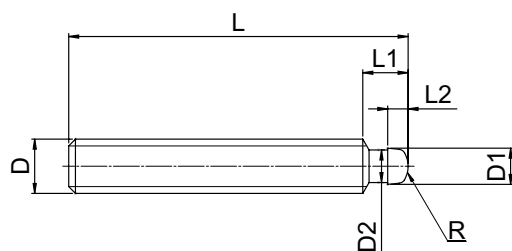
### Tommy Bar Screw

**MATERIAL** -  
Stainless Steel  
BS 970 Gr 316S11

**316**

See 663 Series for this part in Steel

D	L	D1	D2	D3	L1	L2	L3	L4	⚖️ (g)	WDS No.
M6	25	10	4.5	5	32	12	3	3	11	833-20625
M6	35	10	4.5	5	32	12	3	3	16	833-20635
M6	50	10	4.5	5	32	12	3	3	20	833-20650
M8	25	12	6	5	45	14	4	3	25	833-20825
M8	35	12	6	5	45	14	4	3	29	833-20835
M8	50	12	6	5	45	14	4	3	34	833-20850
M10	35	16	7.8	5	45	16	6	3	42	833-21035
M10	50	16	7.8	5	45	16	6	3	48	833-21050
M10	60	16	7.8	5	45	16	6	3	57	833-21060
M12	50	20	9.4	6.5	50	19	6	3	80	833-21250
M12	75	20	9.4	6.5	50	19	6	3	105	833-21275
M12	100	20	9.4	6.5	50	19	6	3	120	833-212100



## WDS 670

### Swivel End Screw

For use with 671 Swivel Pads

**MATERIAL** -  
Steel BS.970 Gr.212A42  
Chemical black finish

See 820 Series for this part in Stainless Steel

P = safe working load in kg (for static load only)

#### Related Products: Swivel Pads

##### Metric

D	L	D1	D2	L1	L2	R	P	⚖️ (g)	WDS No.
M6	50	4.5	4.1	6	2.5	3	110	9	670-400650
M8	50	6	5.3	7.5	3	5	170	15	670-400850
M8	75	6	5.3	7.5	3	5	170	23	670-400875
M10	50	8	7.2	9	4.5	6	320	25	670-40150
M10	75	8	7.2	9	4.5	6	320	37	670-40175
M10	125	8	7.2	9	4.5	6	320	62	670-401125
M12	75	8	7.2	10	4.5	6	320	54	670-40275
M12	125	8	7.2	10	4.5	6	320	90	670-402125

##### Inch

D	L	D1	D2	L1	L2	R	P	⚖️ (g)	WDS No. UNC
1/4	50	4.5	4.1	6	2.5	3	110	9	670-60
1/2	150	8	7.2	10	4.5	6	320	108	670-69

# WDS 820

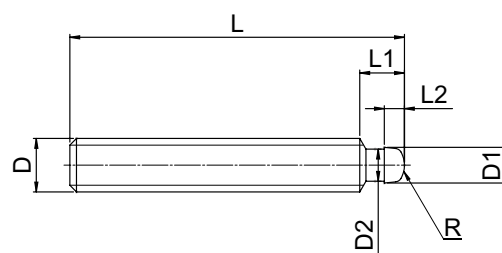
## Swivel End Screw

For use with 821 Swivel Pads


**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316S11

316

See 670 Series for this part  
in Steel



### Related Products: Swivel Pads (Stainless)

D	L	D1	D2	L1	L2	R	 (g)	WDS No.
M6	40	4.5	4.1	6	2.5	3	6	820-40640
M6	60	4.5	4.1	6	2.5	3	9	820-40660
M8	50	6	5.3	7.5	3	5	15	820-40850
M8	70	6	5.3	7.5	3	5	20	820-40870
M10	60	8	7.2	9	4.5	6	25	820-41060
M10	80	8	7.2	9	4.5	6	35	820-41080
M12	70	8	7.2	10	4.5	6	45	820-41270
M12	100	8	7.2	10	4.5	6	65	820-412100

# WDS 8920

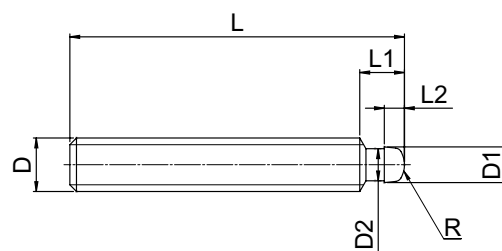
## Swivel End Screw

For use with 821 Swivel Pads


**MATERIAL -**  
Stainless Steel  
BS 970 Gr 303S31

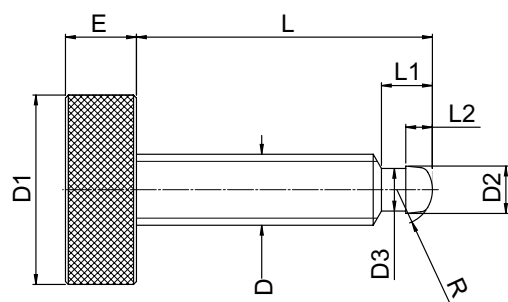
303

See 670 Series for this part in  
Steel



### Related Products: Swivel Pads (Stainless)

D	L	D1	D2	L1	L2	R	 (g)	WDS No.
M6	40	4.5	4.1	6	2.5	3	6	8920-40640
M8	50	6	5.3	7.5	3	5	15	8920-40850
M10	60	8	7.2	9	4.5	6	25	8920-41060
M12	70	8	7.2	10	4.5	6	45	8920-41270



# WDS 672

## Swivel End Adjusting Screw


For use with 671 Swivel Pads

**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish

See 822 Series for this part in  
Stainless Steel

### Related Products: Swivel Pads

Metric

D	L	D1	D2	D3	E	L1	L2	R	 (g)	WDS No.
M6	35	16	4.5	4.1	6	6	2.5	3	16	672-400635
M6	50	16	4.5	4.1	6	6	2.5	3	19	672-400650
M6	75	16	4.5	4.1	6	6	2.5	3	24	672-400675
M8	50	22	6	5.3	8	7.5	3	5	44	672-400850
M8	75	22	6	5.3	8	7.5	3	5	52	672-400875
M10	50	25	8	7.2	10	9	4.5	6	73	672-40150
M10	75	25	8	7.2	10	9	4.5	6	86	672-40175
M12	50	32	8	7.2	12	10	4.5	6	128	672-40250
M12	75	32	8	7.2	12	10	4.5	6	146	672-40275
M12	100	32	8	7.2	12	10	4.5	6	164	672-402100

Inch

D	L	D1	D2	D3	E	L1	L2	R	 (g)	WDS No. BSW	WDS No. UNC
1/4	50	16	4.5	4.1	6	6	2.5	3	19	672-50	672-60
1/4	75	16	4.5	4.1	6	6	2.5	3	24	-	672-61
5/16	50	22	6	5.3	8	7.5	3	5	44	672-53	-
5/16	75	22	6	5.3	8	7.5	3	5	52	-	672-64
1/2	100	32	8	7.2	12	10	4.5	6	164	-	672-69

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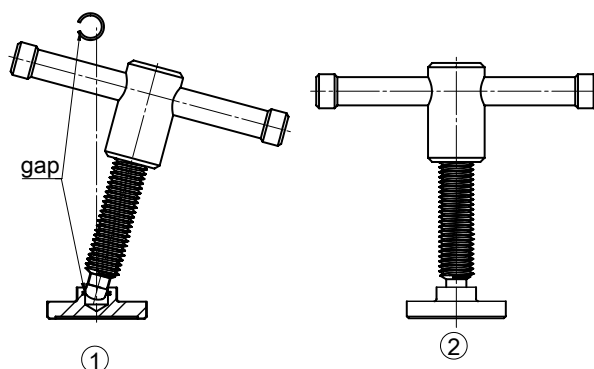
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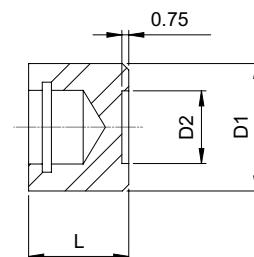


## WDS 671


### Swivel Pad

**MATERIAL** -  
Steel BS.970 Gr.220M07 case  
hardened  
Chemical black finish  
Spring retaining ring

See 821 Series for this part in  
Stainless Steel



#### Related Products: Swivel End Screws, Adjusting Screws

D	D1	D2	L	 (g)	WDS No.
M6 or 1/4	10	5	8	4	671-4002
M8 or 5/16	12	6	9	8	671-4006
M10, M12 or 1/2	14	8	11	10	671-401

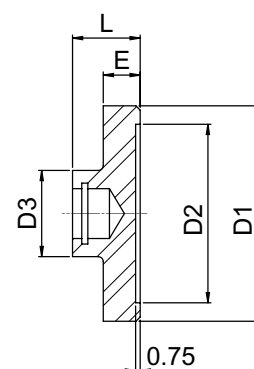
D=screw size - refer to 670, 672, 676 or 706

## WDS 671


### Swivel Pad

**MATERIAL** -  
Steel BS.970 Gr.220M07 case  
hardened  
Chemical black finish  
Spring retaining ring

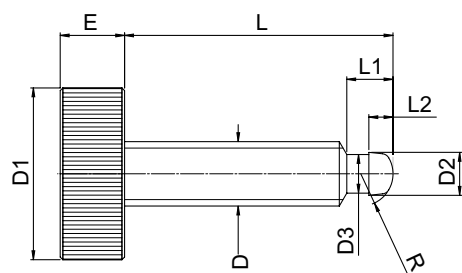
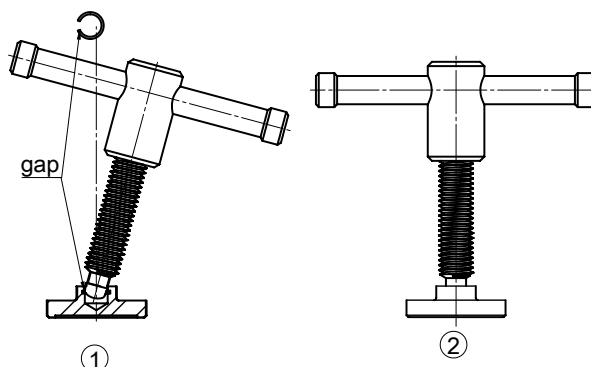
See 821 Series for this part in  
Stainless Steel



#### Related Products: Swivel End Screws, Adjusting Screws

D	D1	D2	D3	L	E	 (g)	WDS No.
M6 or 1/4	16	10	10	8	3	7	671-4004
M8 or 5/16	18	12	12	9	4	11	671-4008
M10, M12 or 1/2	22	16	14	11	5	19	671-402
M10, M12 or 1/2	28	22	14	11	6	33	671-404
M10, M12 or 1/2	35	29	14	11	6	45	671-406

D=screw size - refer to 670, 672, 676 or 706



## WDS 822

### Swivel End Adjusting Screw


For use with 821 Swivel Pads

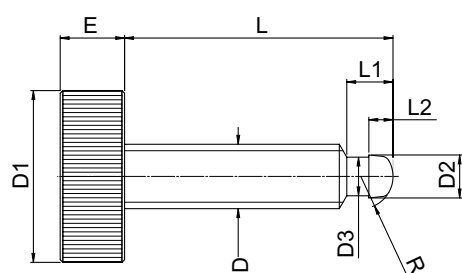
**MATERIAL** -  
Stainless Steel BS 970  
Gr 316S11

**316**

See 672 Series for this part  
in Steel

#### Related Products: Swivel Pads (Stainless)

D	L	D1	D2	D3	E	L1	L2	R	 (g)	WDS No.
M6	30	16	4.5	4.1	6	6	2.5	3	20	822-40630
M6	50	16	4.5	4.1	6	6	2.5	3	20	822-40650
M8	40	22	6	5.3	8	7.5	3	5	35	822-40840
M8	60	22	6	5.3	8	7.5	3	5	40	822-40860
M10	50	25	8	7.2	10	9	4.5	6	60	822-41050
M10	70	25	8	7.2	10	9	4.5	6	80	822-41070
M12	90	30	8	7.2	12	10	4.5	6	130	822-41290



## WDS 8922

### Swivel End Adjusting Screw


For use with 821 Swivel Pads

**MATERIAL**  
Stainless Steel BS 970 Gr 303S31

**303**

See 672 Series for this part  
in Steel

#### Related Products: Swivel Pads (Stainless)

D	L	D1	D2	D3	E	L1	L2	R	 (g)	WDS No.
M6	50	16	4.5	4.1	6	6	2.5	3	20	8922-40650
M8	40	22	6	5.3	8	7.5	3	5	35	8922-40840
M8	60	22	6	5.3	8	7.5	3	5	40	8922-40860
M10	50	25	8	7.2	10	9	4.5	6	60	8922-41050
M10	70	25	8	7.2	10	9	4.5	6	80	8922-41070
M12	90	30	8	7.2	12	10	4.5	6	130	8922-41290

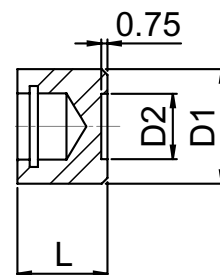
# WDS 821/8921

## Swivel Pad


**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316S11 / 303S31

**316 303**

See 671 Series for this part in Steel



### Related Products: Adjusting Screws

D	D1	D2	L	 (g)	WDS No.	
					Material 316S11	Material 303S31
M6	10	5	8	4	821-4002	8921-4002
M8	12	6	9	8	821-4006	8921-4006
M10 or M12	14	8	11	10	821-401	8921-401

D=screw size - refer to 820 and 822 Series

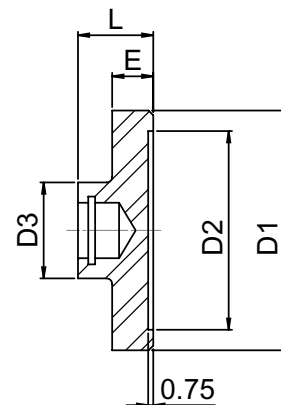
# WDS 821/8921

## Swivel Pad

**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316S11 / 303S31

**316 303**

See 671 Series for this part in Steel



### Related Products: Adjusting Screws

D	D1	D2	D3	L	E	 (g)	WDS No.	
							Material 316S11	Material 303S31
M6	16	10	10	8	3	7	821-4004	-
M8	18	12	12	9	4	11	821-4008	8921-4008
M10 or M12	22	16	14	11	5	19	821-402	8921-402
M10 or M12	28	22	14	11	6	33	821-404	8921-404
M10 or M12	35	29	14	11	6	45	821-406	8921-406

D=screw size - refer to 820 and 822 Series

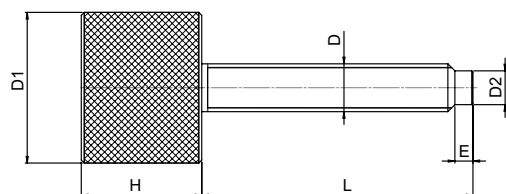


# Torque Screws and Knobs Section

Torque applied to the knurled knob is transmitted to the driving plate of the screw by means of two spring loaded balls in conical seatings, thereby tightening the screw. Dependent upon the spring loading, the balls will be forced up the inclined sides of the dimples until they reach the flat surface of the driving plate. Slippage will then occur and no further increase in the clamping load of the screw is possible. To unclamp, the screw is turned in an anti clockwise direction.

Should the clamping load be too great, then this can be reduced by adjusting the spring pressure on the balls. Slackening of the grub screws will reduce the load exerted by the springs. To increase the clamping load of the screw, the grub screws should be tightened. Care should be taken not to screw them too far otherwise the balls will become locked solid in the seatings and the torque action become non-operative. Adjustments should only be carried out whilst the screw is in a non-working situation. The whole assembly is retained by means of a circlip.

Once the required clamping load by the screw has been achieved, it will be repeated to a reasonable tolerance on successive components.



F1 = Minimum end pressure (kg)  
F2 = Maximum end pressure (kg)



## WDS 700 Torque Screw

**MATERIAL -**  
Head - Steel  
BS.970 Gr.220M07  
Screw - Steel  
BS.970 Gr.212A42  
Chemical Black Finish

### Metric

D	L	D1	D2	H	E	F1	F2	⚖️ (g)	WDS No.
M6	40	25	4.5	20	3	4	80	75	700-201
M6	60	25	4.5	20	3	4	80	77	700-202
M8	40	25	6.0	20	3	4	65	80	700-203
M8	60	25	6.0	20	3	4	65	85	700-204
M8	80	25	6.0	20	3	4	65	90	700-205
M10	40	25	7.8	20	3	4	55	95	700-206
M10	60	25	7.8	20	3	4	55	105	700-207
M10	80	25	7.8	20	3	4	55	110	700-208
M12	40	25	9.4	20	3	4	45	100	700-209
M12	60	25	9.4	20	3	4	45	115	700-210
M12	80	25	9.4	20	3	4	45	125	700-211
M12	100	25	9.4	20	3	4	45	140	700-212

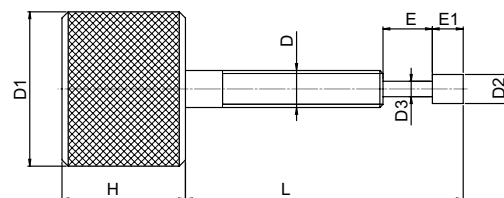
### Inch

D	L	D1	D2	H	E	F1	F2	⚖️ (g)	WDS No. UNC
1/4	45	25	4.4	20	3	4	80	80	700-45
5/16	45	25	5.6	20	3	4	60	85	700-47

# WDS 701

## T-End Torque Screw

**MATERIAL -**  
Head - Steel BS.970 Gr.220M07  
Screw - Steel BS.970 Gr.212A42  
Chemical Black Finish



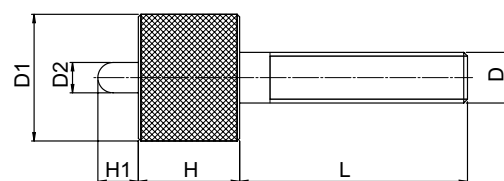
F1 = Minimum end pressure (kg)  
F2 = Maximum end pressure (kg)

D	L	D1	D2	D3	H	E	E1	F1	F2	⚖️ (g)	WDS No.
M6	45	25	4.7	2.5	20	8	5	4	80	70	701-201
M10	45	25	7.7	4.5	20	8	5	4	55	85	701-203

# WDS 703

## Torque Support Screw

**MATERIAL -**  
Head - Steel BS.970 Gr.220M07  
Screw - Steel BS.970 Gr.212A42  
Chemical Black Finish



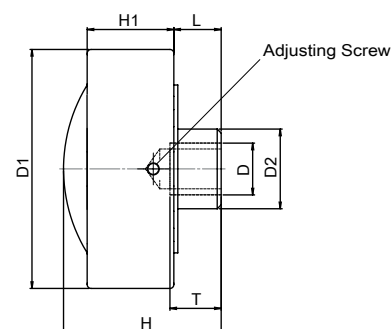
F1 = Minimum end pressure (kg)  
F2 = Maximum end pressure (kg)

D	D1	D2	F1	F2	L	H	H1	⚖️ (g)	WDS No.
M6	25	6	4	80	45	20	8	75	703-201
M10	25	6	4	55	45	20	8	90	703-202
M12	25	6	4	45	45	20	8	105	703-203

# WDS 705

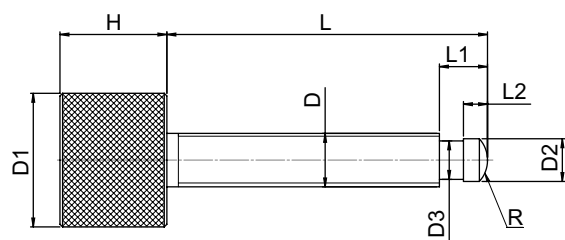
## Torque Knob

**MATERIAL -**  
Knob - Cast Iron  
BS.1452 Gr.250  
Insert - Steel BS.970 Gr.212A42  
Chemical Black Finish (Insert Only)



F1 = Minimum end pressure (kg)  
F2 = Maximum end pressure (kg)

D	D1	D2	F1	F2	H	H1	T	L	⚖️ (g)	WDS No.
M6	60	20	4	130	40	22	13	12	340	705-201
M8	60	20	4	90	40	22	13	12	340	705-202
M10	60	20	4	70	40	22	13	12	335	705-203
M12	60	20	4	50	40	22	13	12	335	705-204



F1 = Minimum end pressure (kg)  
F2 = Maximum end pressure (kg)




## WDS 706

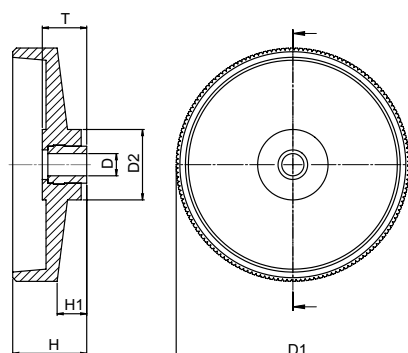
### Swivel End Torque Screw

**MATERIAL -**  
Head - Steel Bs.970 Gr.220M07  
Screw - Steel Bs.970 Gr.212A42  
Chemical Black Finish

For use with 671 Swivel Pads

#### Metric


D	L	D1	D2	D3	F1	F2	H	L1	L2	R	 (g)	WDS No.
M6	40	25	4.5	4.1	4	80	20	6	2.5	3	75	706-401
M6	60	25	4.5	4.1	4	80	20	6	2.5	3	80	706-402
M8	60	25	6	5.3	4	65	20	7.5	3	5	85	706-403
M8	80	25	6	5.3	4	65	20	7.5	3	5	90	706-404
M10	60	25	8	7.2	4	55	20	9	4.5	6	95	706-405
M10	80	25	8	7.2	4	55	20	9	4.5	6	105	706-406
M12	80	25	8	7.2	4	45	20	10	4.5	6	120	706-407
M12	100	25	8	7.2	4	45	20	10	4.5	6	135	706-408



## WDS 8198

### Hand Nut Thru Hole

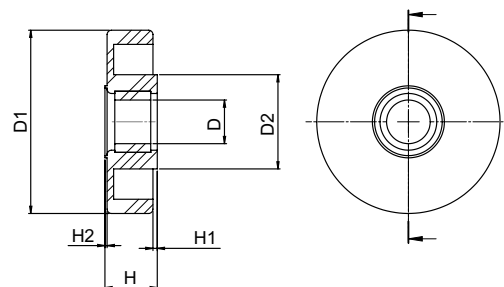
**MATERIAL -**  
Thermoplastic, black  
Insert- Steel, zinc plated

D	D1	D2	H	H1	T	 (g)	WDS No.
M6	70	19	20	7	12	11	8198-221
M8	70	19	20	7	12	10	8198-222

# WDS 8198

## Hand Nut Thru Hole

**MATERIAL -**  
Thermoplastic, black  
Insert - Steel, zinc plated



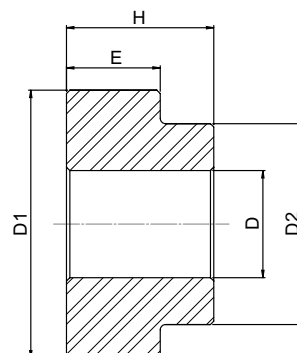
D	D1	D2	H	H1	H2	⚖️ (g)	WDS No.
M8	42	21	12	1	0.5	20	8198-212
M10	42	21	12	1	0.5	19	8198-213

# WDS 522

## Thumb Nut

**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish

See 807 Series for this part in  
Stainless Steel



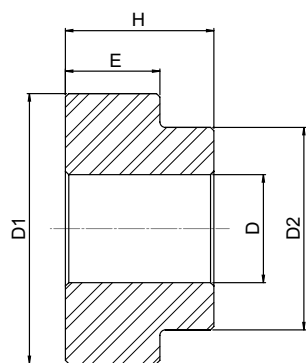
### Related Products: Studs

#### Metric

D	D1	D2	E	H	⚖️ (g)	WDS No.
M4	16	12	9	12	15	522-2004
M5	16	12	9	12	15	522-2005
M6	20	16	10	15	25	522-201
M8	25	19	11	16	50	522-202
M10	32	24	13	19	90	522-203
M12	38	28.5	14	22	120	522-204
M16	40	30	14	22	120	522-206

#### Inch

D	D1	D2	E	H	⚖️ (g)	WDS No. BA/BSF	WDS No. BSW	WDS No. UNC
2 BA	16	12	9	12	15	522-19	-	-
10 UNC	16	12	9	12	15	-	-	522-13
1/4	20	16	10	15	25	522-02	522-08	522-14
5/16	25	19	11	16	50	522-03	522-09	522-15
3/8	32	24	13	19	90	522-04	522-10	522-16
1/2	38	28	14	22	120	522-05	522-11	522-17



## WDS 807


### Thumb Nut

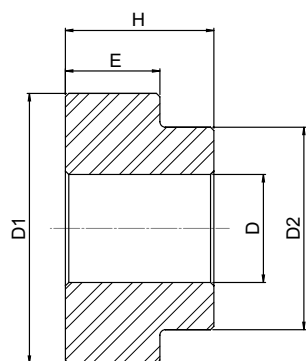
**MATERIAL -**  
Stainless Steel BS 970  
Gr 316S11

**316**

See 522 Series for this part in Steel

#### Related Products: Studs

D	D1	D2	E	H	 (g)	WDS No.
M4	16	12	9	12	15	807-204
M5	16	12	9	12	15	807-205
M6	20	16	10	15	30	807-206
M8	25	19	11	16	50	807-208
M10	30	24	13	20	90	807-210
M12	35	28.5	14	22	130	807-212



## WDS 8907


### Thumb Nut

**MATERIAL -**  
Stainless Steel  
BS 970 Gr 303S31

**303**

See 522 Series for this part in Steel

#### Related Products: Studs

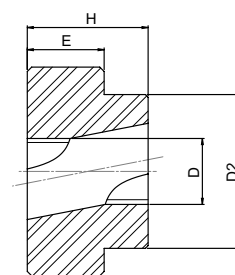
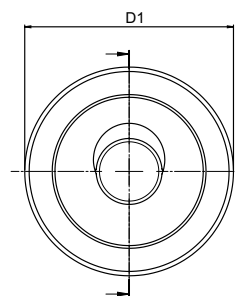
D	D1	D2	E	H	 (g)	WDS No.
M4	16	12	9	12	15	8907-204
M5	16	12	9	12	15	8907-205
M6	20	16	10	15	30	8907-206
M8	25	19	11	16	50	8907-208
M10	30	24	13	20	90	8907-210
M12	35	28.5	14	22	130	8907-212

# WDS 669


## Quick Action Thumb Nut


**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish


See 824 Series for this part in  
Stainless Steel



### Related Products: Studs

Metric	D		D1	D2	E	H	 (g)	WDS No. Metric
	Inch							
M5	-		16	12	9	12	15	669-2505
M6	1/4		20	16	10	15	25	669-251
M8	5/16		25	19	11	16	50	669-252
M10	3/8		30	24	13	20	75	669-253
M12	1/2		35	28.5	14	22	125	669-254

Metric	D		D1	D2	E	H	 (g)	WDS No. BA/BSF
	Inch							
-	2 BA		16	12	9	12	10	669-67
M6	1/4		20	16	10	15	25	669-51

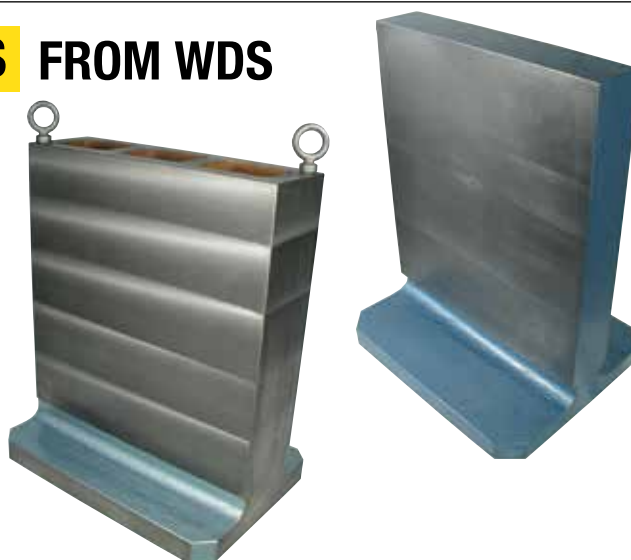
Metric	D		D1	D2	E	H	 (g)	WDS No. BSW
	Inch							
M6	1/4		20	16	10	15	25	669-56
M8	5/16		25	19	11	16	50	669-57
M10	3/8		30	24	13	20	75	669-58
M12	1/2		35	28.5	14	22	125	669-59

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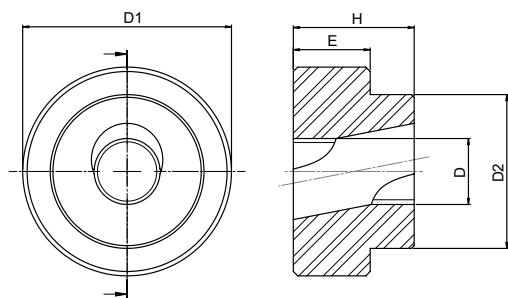
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## WDS 824


### Quick Action Thumb Nut

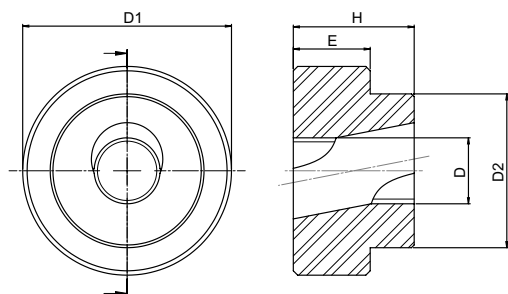
**MATERIAL -**  
Stainless Steel  
BS 970 Gr.316S11

**316**

See 669 Series for this part in Steel

#### Related Products: Studs

D	D1	D2	E	H	 (g)	WDS No.
M5	16	12	9	12	14	824-205
M6	20	16	10	15	25	824-206
M8	25	19	11	16	50	824-208
M10	30	24	13	20	75	824-210
M12	35	28.5	14	22	125	824-212



## WDS 8924


### Quick Action Thumb Nut

**MATERIAL -**  
Stainless Steel  
BS 970 Gr.303S31

**303**

See 669 Series for this part in Steel

#### Related Products: Studs

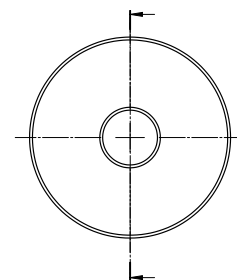
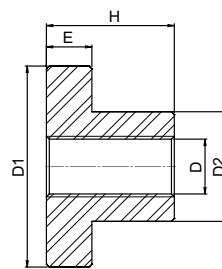
D	D1	D2	E	H	 (g)	WDS No.
M5	16	12	9	12	14	8924-205
M6	20	16	10	15	25	8924-206
M8	25	19	11	16	50	8924-208
M10	30	24	13	20	75	8924-210
M12	35	28.5	14	22	125	8924-212

# WDS 520

## Thumb Nut


**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish

See 816 Series for this part in  
Stainless Steel




### Related Products: Studs


#### Metric

D	D1	D2	E	H	 (g)	WDS No.
M4	16	8	3.5	9.5	5	520-201
M5	19	10	4	11.5	10	520-202
M6	25	12	5	15	20	520-203
M8	28	16	6	18	40	520-204
M10	32	20	8	23	85	520-205
M12	40	22	10	25	110	520-206


#### Inch

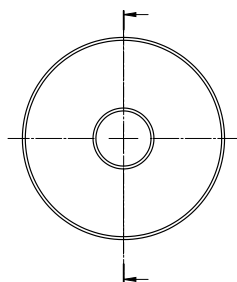
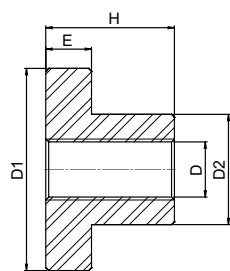
D	D1	D2	E	H	 (g)	WDS No. BA/BSF
2 BA	19	9.5	4	11.1	12	520-01

#### Inch

D	D1	D2	E	H	 (g)	WDS No. BSW
1/4	25	12.7	4.8	15.9	27	520-12
5/16	29	15.9	6.4	19	43	520-13
3/8	35	19.1	7.9	22.2	81	520-14

#### Inch

D	D1	D2	E	H	 (g)	WDS No. UNC
10 UNC	19	9.5	4	11.1	11	520-21
1/4	25	12.7	4.8	15.9	27	520-22
5/16	29	15.9	6.4	19	43	520-23
3/8	35	19.1	7.9	22.2	81	520-24



## WDS 816

### Thumb Nut

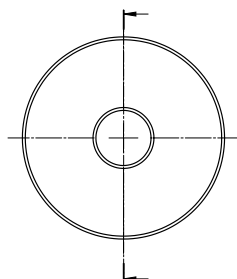
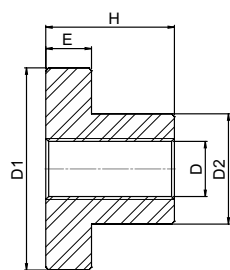
**MATERIAL -**  
Stainless Steel  
BS 970 Gr.316S11

**316**

See 520 Series for this part in Steel

#### Related Products: Studs

D	D1	D2	E	H	⚖️ (g)	WDS No.
M4	16	8	3.5	9.5	8	816-204
M5	20	10	4	11.5	10	816-205
M6	25	12	5	15	25	816-206
M8	30	16	6	18	40	816-208
M10	32	20	8	23	80	816-210



## WDS 8916

### Thumb Nut

**MATERIAL -**  
Stainless Steel  
BS 970 Gr.303S31

**303**

See 520 Series for this part in Steel

#### Related Products: Studs

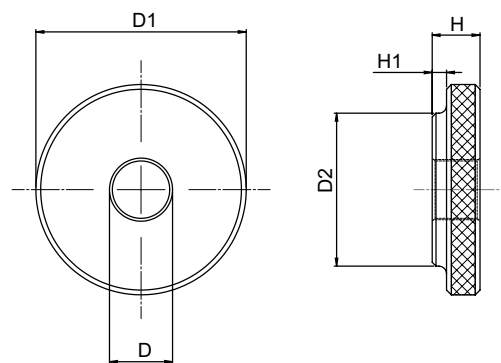
D	D1	D2	E	H	⚖️ (g)	WDS No.
M4	16	8	3.5	9.5	8	8916-204
M5	20	10	4	11.5	10	8916-205
M6	25	12	5	15	25	8916-206
M8	30	16	6	18	40	8916-208
M10	32	20	8	23	80	8916-210

# WDS 612


## Knurled Lock Nut

**MATERIAL -**  
Steel BS.970 Gr.220M07  
Chemical black finish

See 836 Series for this part in  
Stainless Steel



### Related Products: Studs

D	D1	D2	H	H1	 (g)	WDS No.
M4	20	13	5	1.5	10	612-2004
M5	20	13	5	1.5	9	612-2005
M6	22	16	5	1.5	11	612-201
M8	22	16	6	1.5	14	612-202
M10	28	22	6	1.5	25	612-203
M12	28	22	6	1.5	22	612-204
M16	28	22	6	1.5	20	612-206

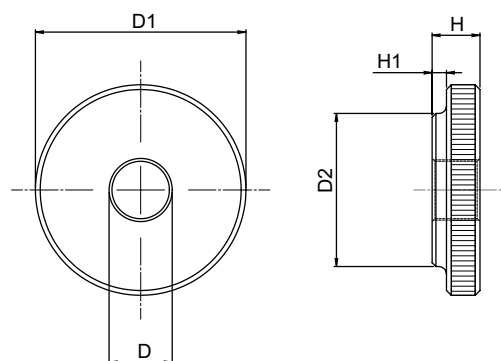
# WDS 836

## Knurled Lock Nut


**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316S11

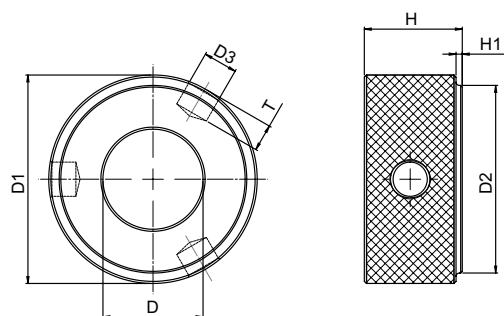
316

See 612 Series for this part  
in Steel



### Related Products: Studs

D	D1	D2	H	H1	 (g)	WDS No.
M4	20	13	5	1.5	10	836-204
M5	20	13	5	1.5	9.5	836-205
M6	22	16	5	1.5	12	836-206
M8	22	16	6	1.5	13.5	836-208
M10	28	22	6	1.5	23	836-210
M12	28	22	6	1.5	21	836-212




## WDS 613

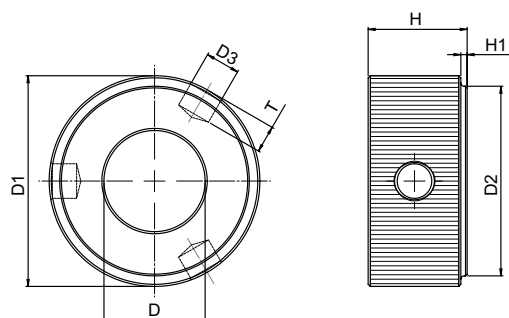
### Tommy Nut

**MATERIAL -**  
Steel BS.970 Gr.212A42 surface  
hardened  
Chemical black finish

See 837 Series for this part in  
Stainless Steel

#### Related Products: Studs

D	D1	D2	D3	H	H1	T	 (g)	WDS No.
M6	20	13	3.2	7.5	1.5	4.5	10	613-2004
M8	22	16	3.2	8.5	1.5	5	20	613-2006
M10	25	19	5.2	9.5	1.5	5	30	613-2008
M12	32	26	6.2	11.5	1.5	7	46	613-201
M16	38	32	6.2	14.5	1.5	7	88	613-202
M20	45	38	8.2	17.5	1.5	7.5	149	613-203
M24	50	45	8.2	23.5	1.5	7.5	254	613-204



## WDS 837


### Tommy Nut

**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316S11

**316**

See 613 Series for this part  
in Steel

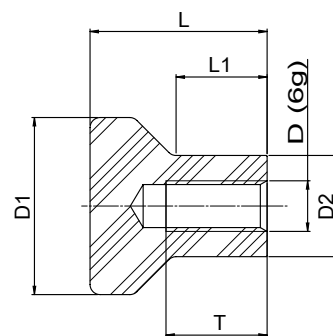
#### Related Products: Studs

D	D1	D2	D3	H	H1	T	 (g)	WDS No.
M6	20	13	3.2	7.5	1.5	4.5	14	837-206
M8	22	16	3.2	8.5	1.5	5	19	837-208
M10	25	19	5.2	9.5	1.5	5	26	837-210
M12	32	26	6.2	11.5	1.5	7	55	837-212
M16	38	32	6.2	14.5	1.5	7	98	837-216

# WDS 8303

## Stainless Steel Mushroom Thumb Knob - Polished

**MATERIAL -**  
Stainless Steel 316S11,  
Polished



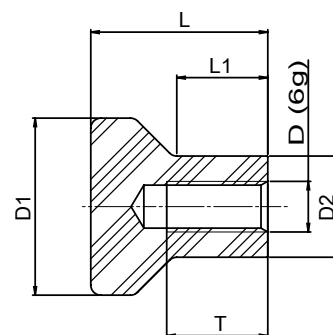
**Related Products:** WDS 801 Studs

D	D1	D2	L	L1	T	⚖️ (g)	WDS No.
M3	18	10	21	10	7	30	8303-203
M4	18	10	21	10	7	30	8303-204
M5	25	14	25	12	9	48	8303-205
M6	25	14	25	12	9	48	8303-206
M8	35	20	35	18	15	113	8303-208
M10	35	20	35	18	15	113	8303-210

# WDS 8303

## Stainless Steel Mushroom Thumb Knob - Satin Finish

**MATERIAL -**  
Stainless Steel 316S11,  
Satin Finish



**Related Products:** WDS 801 Studs

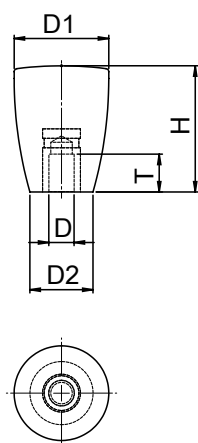
D	D1	D2	L	L1	T	⚖️ (g)	WDS No.
M3	18	10	21	10	7	30	8303-503
M4	18	10	21	10	7	30	8303-504
M5	25	14	25	12	9	48	8303-505
M6	25	14	25	12	9	48	8303-506
M8	35	20	35	18	15	113	8303-508
M10	35	20	35	18	15	113	8303-510

**All the characteristics of Bakelite...**



**...with 'knobs on'!**  
**Section 11 & 13**




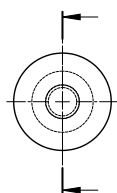
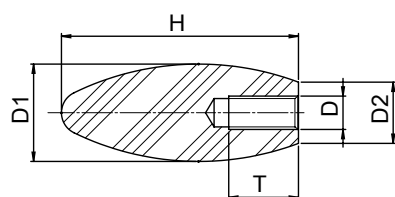


# WDS 8117

## Tapered Knob - Metric with Threaded Insert

**MATERIAL -**  
Body: PF31 Black  
Insert: M4 & M5 in Brass / M6 to M12  
Inserts in Steel-Zinc plated


D	D1	D2	H	T	 (g)	WDS No.
M4	20	10	12	6	5	8117-201
M5	20	10	12	7.5	5	8117-202
M6	22	12	30	9	17	8117-203
M8	22	12	30	12	17	8117-204
M8	30	20	40	12	35	8117-205
M12	39	26	52	18	85	8117-206



# WDS 8118

## Barrel Grip with Moulded Thread

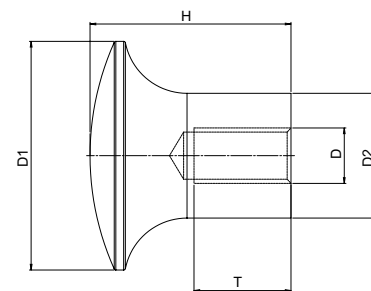
**MATERIAL -**  
Body: PF31 Black

D	D1	D2	H	T	 (g)	WDS No.
M4	20	10	12	6	22	8118-201
M5	20	10	12	7.5	22	8118-202
M6	22	12	30	9	19	8118-203
M8	22	12	30	12	19	8118-204
M8	30	20	40	12	25	8118-205
M12	39	26	52	18	25	8118-206


# WDS 8109

## Hand Knob Moulded Thread

**MATERIAL -**  
PF31 (Bakelite)



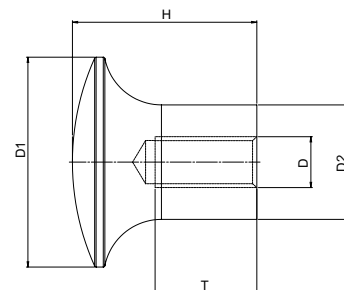
### Related Products: Studs

D	D1	D2	H	T	 (g)	WDS No.
M4	17	10	14	10	2	8109-201
M5	21	12	17	11	4	8109-202
M6	29	16	25	14	10	8109-203
M8	33	18	29	14	15	8109-204


# WDS 8110

## Hand Knob Brass Insert

**MATERIAL -**  
Body - PF31 (Bakelite)  
Insert - Brass



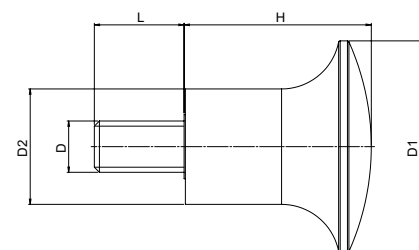
### Related Products: Studs


D	D1	D2	H	T	 (g)	WDS No.
M4	17	10	14	7	3	8110-201
M5	21	12	17	11	9	8110-202
M6	25	14	21	11	10	8110-203
M8	33	18	29	16	19	8110-204

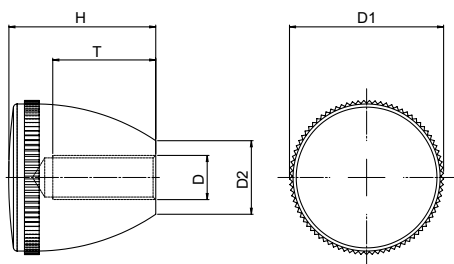
# WDS 8111

## Hand Knob - Male Thread

**MATERIAL -**  
Body - PF31 (Bakelite)  
Thread - Zinc Plated Steel



D	D1	D2	H	L	 (g)	WDS No.
M4	17	10	14	8	4	8111-20408
M5	21	12	17	9	7	8111-20509
M6	25	14	21	10	12	8111-20610
M8	33	18	29	14	24	8111-20814



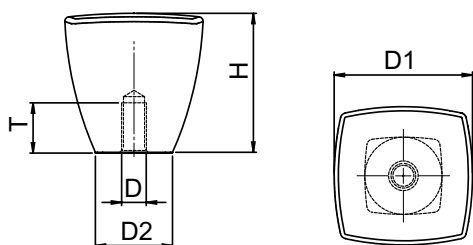
## WDS 8144

### Taper Knob

**MATERIAL -**  
Bakelite, black  
Insert - Steel zinc plated

#### Related Products: Studs

D	D1	D2	H	T	Insert	⚖️ (g)	WDS No.
M12	45	20	45	36	Moulded	65	8144-208
M6	20	10	20	6.5	Steel Insert	10	8144-211
M6	30	14	30	12	Steel Insert	30	8144-212
M8	30	14	30	14	Steel Insert	32	8144-213
M10	45	20	45	22	Steel Insert	88	8144-218



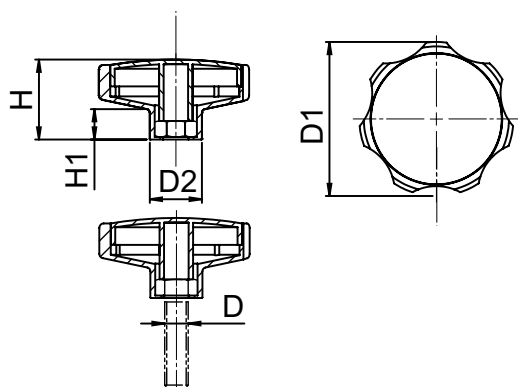
## WDS 8133

### Cubed Knob - Brass Insert

**MATERIAL -**  
Body - PF31 (Bakelite)  
Insert - Brass

#### Related Products: Studs

D	D1	D2	H	T	⚖️ (g)	WDS No.
M6	35	20	35	11	49	8133-202



## WDS 8100

### Hand Knob/Screw Kit

**MATERIAL -**  
Glass fibre reinforced plastic, black  
By lightly pressing a standard metric nut (D) or hexagon headed screw (both not supplied) into the moulded hexagonal recess in the base of the knob, a variety of female hand knobs or male hand screws can be created. The cap snaps into place on the base of the knob and the integral moulded tube retains the nut or screw in position.

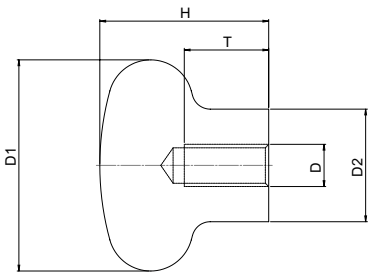
#### Related Products: Nuts

D	D1	D2	H	H1	⚖️ (g)	WDS No.
M6	32	18	18	10	7	8100-201
M6	42	21	28	10	11	8100-202
M8	32	18	18	10	7	8100-203
M8	42	21	28	10	11	8100-204
M8	62	21	34	12	21	8100-205
M10	62	21	34	12	21	8100-206


# WDS 8145

Hand Knob - Domed

MATERIAL -  
PF31 Bakelite  
Moulded Thread



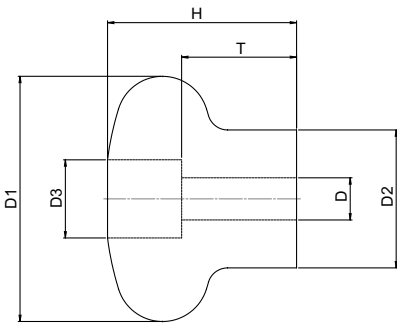
Related Products: Studs

D	D1	D2	H	T	 (g)	WDS No.
M6	30	16	24	12	15	8145-201
M8	32	18	25	16	14	8145-2025
M10	45	21	30	18	33	8145-2045
M12	52	24	35	18	55	8145-2075

# WDS 8145

Hand Knob to Suit  
M5 Capscrew

MATERIAL -  
PF31 Bakelite



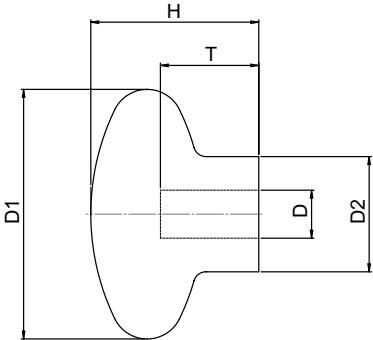
Related Products: Caphead Screws


D	D1	D2	H	T	D3	 (g)	WDS No.
5.5	32	18	25	15	10.2	14	8145-301

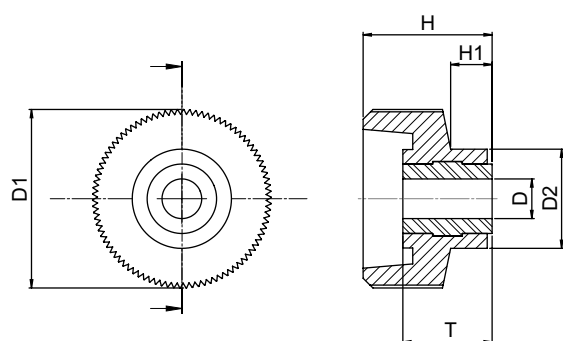
# WDS 8145

Hand Knob -  
Push Fit

MATERIAL -  
PF31 Bakelite



D	D1	D2	H	T	 (g)	WDS No.
10	52	24	35	20.5	56	8145-403




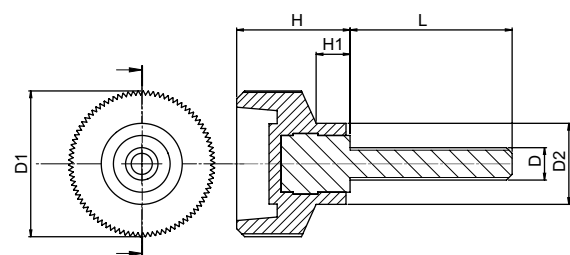
## WDS 8198

### Thumb Nut

**MATERIAL -**  
PF31 Bakelite Black  
Boss - Steel Zinc Plated

#### Related Products: Studs

D	D1	H	H1	D2	T	 (g)	WDS No.
M4	18	13	5	10	9	4	8198-201
M5	20	14	6	12	10	6	8198-2025
M5	24	16	7	13	10	7	8198-202
M6	24	16	7	13	10	7	8198-2035
M6	30	18	7	15	11	12	8198-203
M8	30	18	7	15	11	13	8198-2045
M8	35	19	7	18	11	16	8198-204
M10	35	19	7	18	11	18	8198-205




## WDS 8198

### Thumb Screw

**MATERIAL -**  
PF31 Bakelite Black  
Boss - Steel, Zinc Plated

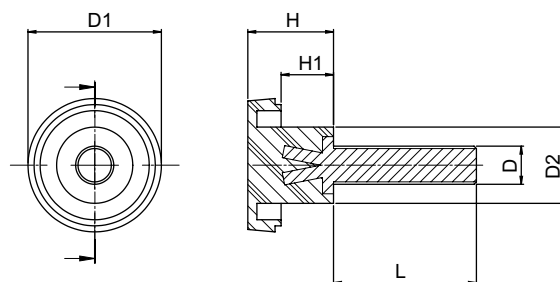
#### Related Products: Nuts

D	D1	H	H1	D2	L	 (g)	WDS No.
M4	18	14	6	10	20	6	8198-20420
M5	20	15	6	12	25	9	8198-20525
M6	30	18	7	15	28	17	8198-20628
M8	35	20	8	18	25	25	8198-20825
M10	35	20	8	18	30	35	8198-21030

# WDS 8168

## Thumb Screw

**MATERIAL -**  
Thermoplastic, black  
Screw- Steel, zinc plated



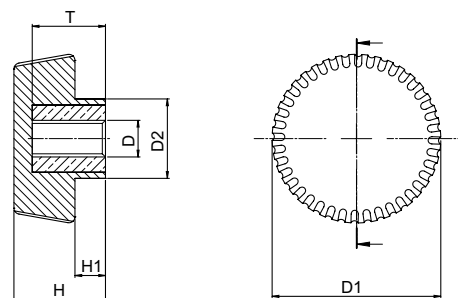
### Related Products: Nuts

D	D1	D2	H	H1	L	⚖️ (g)	WDS No.
M3	10	8	4.5	0.5	10	7	8168-220
M4	14	8	9	5.5	10	10	8168-224
M4	14	8	9	5.5	15	12	8168-225
M4	14	8	9	5.5	25	14	8168-227
M5	22	12	12	3.5	10	11.5	8168-228
M5	22	12	12	3.5	15	12	8168-229
M6	22	12	12	3.5	15	15	8168-236
M6	22	12	12	3.5	20	16.5	8168-237
M6	22	12	12	3.5	25	17.5	8168-238
M6	22	12	12	3.5	50	25	8168-241

# WDS 8169

## Thumb Nut

**MATERIAL -**  
Thermoplastic, black  
Insert- Steel, zinc plated



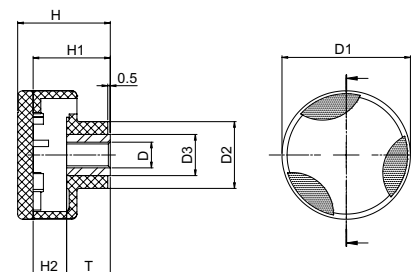
### Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M6	28	13	15	5	9	12	8169-206
M8	28	13	15	5	12	15	8169-207

# WDS 8221

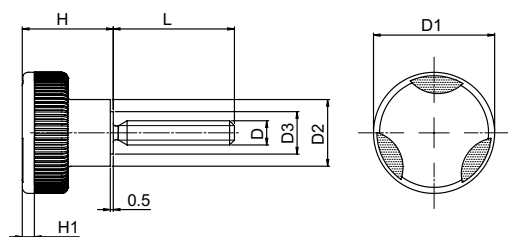
## Hand Knob - Female Thread

**MATERIAL -**  
Body - Nylon PA6  
Insert - Brass



### Related Products: Studs

D	D1	D2	D3	H	H1	H2	T	⚖️ (g)	WDS No.
M4	20	11	7	15	13	4	9.5	4	8221-201
M5	25	13	8	18	15	6.5	8.5	7	8221-203
M5	30	15	8	21	18	6.5	11.5	9	8221-204
M6	30	15	9	21	18	6.5	11.5	10	8221-206
M8	35	17.5	11	24	20	9	11.0	14	8221-208
M10	35	17.5	14	24	20	9	11.0	16	8221-209



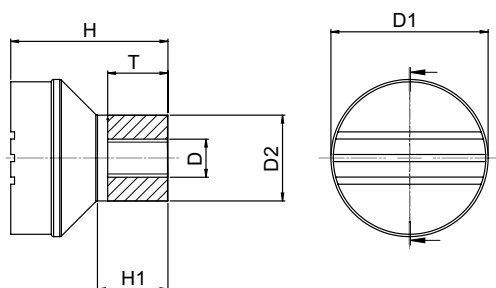
## WDS 8222

### Hand Screw - Male Thread

**MATERIAL -**  
Body - Nylon PA6  
Stem - Steel, Zinc Plated

#### Related Products: Nuts

D	D1	D2	D3	H	H1	L	⚖️ (g)	WDS No.
M4	20	11	7	15	2	20	6	8222-2042020
M5	20	11	8	15	2	25	9	8222-2052520
M6	25	13	10	18	3	28	13	8222-2062825
M6	30	15	10	21	3	28	15	8222-2062830
M8	30	17.5	12	21	3	32	23	8222-2083230
M10	35	17.5	14	24	4	30	33	8222-2103035



## WDS 8445

### Mushroom Knob - Female

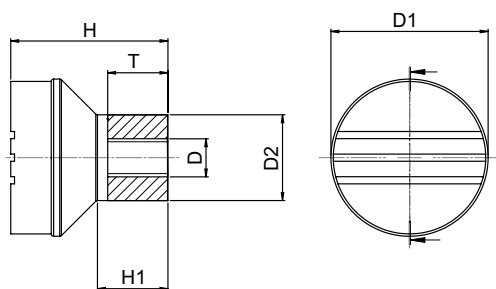
**MATERIAL -**  
Body - Thermoplastic  
Insert - Steel - zinc plated  
Insert - Stainless Steel - 303 S31



Black Grey - RAL 7021

#### Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	12	21	10	10	8.6	8445-202BG	8445-302BG
M5	21	12	21	10	10	7.8	8445-204BG	8445-304BG
M6	25	14	25	12	10	8.9	8445-206BG	8445-306BG
M8	33	18	33	15	14	22.2	8445-208BG	8445-308BG



## WDS 8445

### Mushroom Knob - Female

**MATERIAL -**  
Body - Thermoplastic  
Insert - Steel - zinc plated  
Insert - Stainless Steel - 303 S31



Pale Grey - RAL 7035

#### Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	12	21	10	10	8.6	8445-202PG	8445-302PG
M5	21	12	21	10	10	7.8	8445-204PG	8445-304PG
M6	25	14	25	12	10	8.9	8445-206PG	8445-306PG
M8	33	18	33	15	14	22.2	8445-208PG	8445-308PG



# WDS 8445

## Mushroom Knob - Female

### MATERIAL -

Body - Thermoplastic

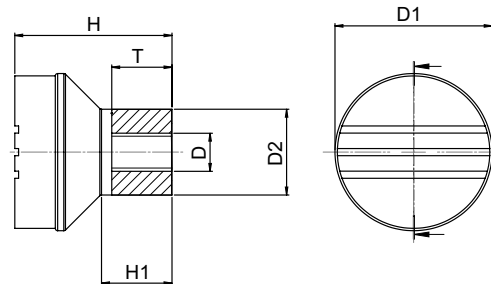
Insert - Steel - zinc plated

Insert - Stainless Steel - 303 S31

ZP


303

RAL  
3020



### Related Products: Studs

Traffic Red - RAL 3020

D	D1	D2	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	12	21	10	10	8.6	8445-202TR	8445-302TR
M5	21	12	21	10	10	7.8	8445-204TR	8445-304TR
M6	25	14	25	12	10	8.9	8445-206TR	8445-306TR
M8	33	18	33	15	14	22.2	8445-208TR	8445-308TR

# WDS 8445

## Mushroom Knob - Female

### MATERIAL -

Body - Thermoplastic

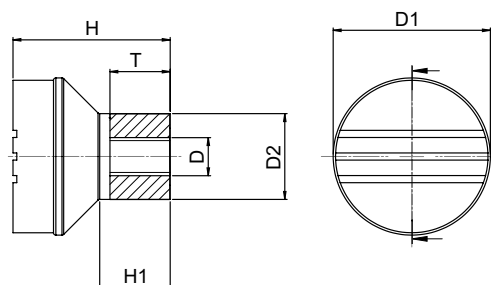
Insert - Steel - zinc plated

Insert - Stainless Steel - 303 S31

ZP


303

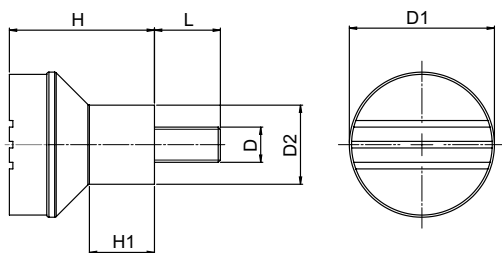
RAL  
1021



### Related Products: Studs

Cadmium Yellow - RAL 1021

D	D1	D2	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	12	21	10	10	8.6	8445-202CY	8445-302CY
M5	21	12	21	10	10	7.8	8445-204CY	8445-304CY
M6	25	14	25	12	10	8.9	8445-206CY	8445-306CY
M8	33	18	33	15	14	22.2	8445-208CY	8445-308CY




# WDS 8445

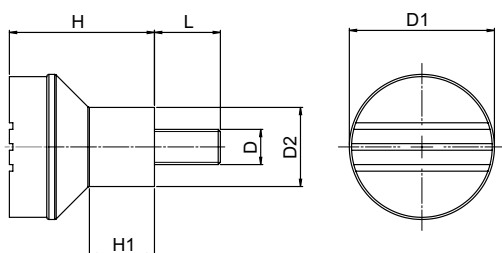
## Mushroom Knob - Male

**MATERIAL -**  
 Body - Thermoplastic  
 Screw - Steel - zinc plated  
 Screw - Stainless Steel - 303 S31



Black Grey - RAL 7021

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M4	21	12	21	10	10	10	8445-402BG	8445-502BG
M5	21	12	21	10	10	10.3	8445-404BG	8445-504BG
M6	25	14	25	12	15	13.8	8445-406BG	8445-506BG
M8	33	18	33	15	15	31	8445-408BG	8445-508BG




# WDS 8445

## Mushroom Knob - Male

**MATERIAL -**  
 Body - Thermoplastic  
 Screw - Steel - zinc plated  
 Screw - Stainless Steel - 303 S31



Pale Grey - RAL 7035

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M4	21	12	21	10	10	10	8445-402PG	8445-502PG
M5	21	12	21	10	10	10.3	8445-404PG	8445-504PG
M6	25	14	25	12	15	13.8	8445-406PG	8445-506PG
M8	33	18	33	15	15	31	8445-408PG	8445-508PG

# WDS 8445

## Mushroom Knob - Male

### MATERIAL -

Body - Thermoplastic

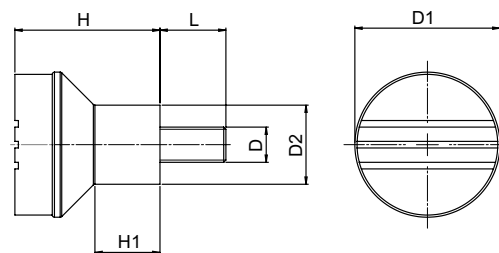
Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31


ZP

303

RAL  
3020



Traffic Red - RAL 3020

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M4	21	12	21	10	10	10	8445-402TR	8445-502TR
M5	21	12	21	10	10	10.3	8445-404TR	8445-504TR
M6	25	14	25	12	15	13.8	8445-406TR	8445-506TR
M8	33	18	33	15	15	31	8445-408TR	8445-508TR

# WDS 8445

## Mushroom Knob - Male

### MATERIAL -

Body - Thermoplastic

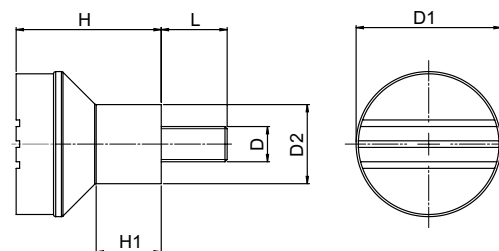
Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31


ZP

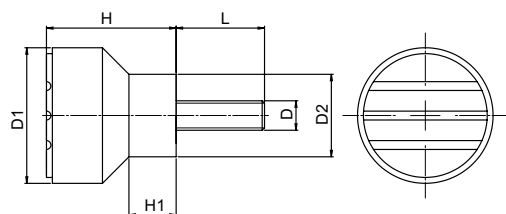
303

RAL  
1021



Cadmium Yellow - RAL 1021

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M4	21	12	21	10	10	10	8445-402CY	8445-502CY
M5	21	12	21	10	10	10.3	8445-404CY	8445-504CY
M6	25	14	25	12	15	13.8	8445-406CY	8445-506CY
M8	33	18	33	15	15	31	8445-408CY	8445-508CY




# WDS 8440

## Knurled Knob

**MATERIAL -**  
 Body - Thermoplastic  
 Screw - Steel - zinc plated  
 Screw - Stainless Steel - 303 S31



Black Grey - RAL 7021

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	21	14	22	8	10	12	8440-402BG	8440-502BG
M5	21	14	22	8	15	13	8440-404BG	8440-504BG
M5	21	14	22	8	20	14	8440-406BG	8440-506BG
M5	21	14	22	8	25	15	8440-408BG	8440-508BG
M6	21	14	22	8	15	14	8440-410BG	8440-510BG
M6	21	14	22	8	20	15	8440-412BG	8440-512BG
M6	21	14	22	8	25	16	8440-414BG	8440-514BG
M6	21	14	22	8	30	17	8440-416BG	8440-516BG
M8	26	18	26	9.5	20	35	8440-418BG	8440-518BG
M8	26	18	26	9.5	25	37	8440-420BG	8440-520BG
M8	26	18	26	9.5	30	39	8440-422BG	8440-522BG
M8	26	18	26	9.5	40	43	8440-424BG	8440-524BG
M10	34	22	36	13	20	45	8440-426BG	8440-526BG
M10	34	22	36	13	30	51	8440-428BG	8440-528BG
M10	34	22	36	13	40	57	8440-430BG	8440-530BG

## New WDS Range

### Section 16



# Bridges

# the

# Gap

# WDS 8440

## Knurled Knob

**MATERIAL -**

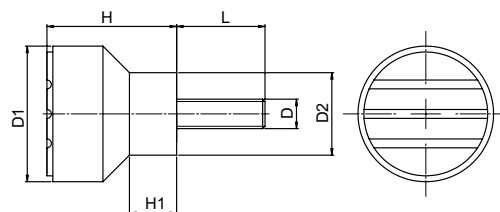
Body - Thermoplastic

Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31

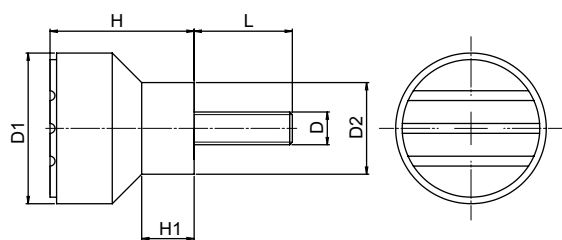
ZP

303

RAL  
7035

Pale Grey - RAL 7035

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	21	14	22	8	10	12	8440-402PG	8440-502PG
M5	21	14	22	8	15	13	8440-404PG	8440-504PG
M5	21	14	22	8	20	14	8440-406PG	8440-506PG
M5	21	14	22	8	25	15	8440-408PG	8440-508PG
M6	21	14	22	8	15	14	8440-410PG	8440-510PG
M6	21	14	22	8	20	15	8440-412PG	8440-512PG
M6	21	14	22	8	25	16	8440-414PG	8440-514PG
M6	21	14	22	8	30	17	8440-416PG	8440-516PG
M8	26	18	26	9.5	20	35	8440-418PG	8440-518PG
M8	26	18	26	9.5	25	37	8440-420PG	8440-520PG
M8	26	18	26	9.5	30	39	8440-422PG	8440-522PG
M8	26	18	26	9.5	40	43	8440-424PG	8440-524PG
M10	34	22	36	13	20	45	8440-426PG	8440-526PG
M10	34	22	36	13	30	51	8440-428PG	8440-528PG
M10	34	22	36	13	40	57	8440-430PG	8440-530PG




# WDS 8440

## Knurled Knob

**MATERIAL -**  
Body - Thermoplastic  
Screw - Steel - zinc plated  
Screw - Stainless Steel - 303 S31



Traffic Red - RAL 3020

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	21	14	22	8	10	12	8440-402TR	8440-502TR
M5	21	14	22	8	15	13	8440-404TR	8440-504TR
M5	21	14	22	8	20	14	8440-406TR	8440-506TR
M5	21	14	22	8	25	15	8440-408TR	8440-508TR
M6	21	14	22	8	15	14	8440-410TR	8440-510TR
M6	21	14	22	8	20	15	8440-412TR	8440-512TR
M6	21	14	22	8	25	16	8440-414TR	8440-514TR
M6	21	14	22	8	30	17	8440-416TR	8440-516TR
M8	26	18	26	9.5	20	35	8440-418TR	8440-518TR
M8	26	18	26	9.5	25	37	8440-420TR	8440-520TR
M8	26	18	26	9.5	30	39	8440-422TR	8440-522TR
M8	26	18	26	9.5	40	43	8440-424TR	8440-524TR
M10	34	22	36	13	20	45	8440-426TR	8440-526TR
M10	34	22	36	13	30	51	8440-428TR	8440-528TR
M10	34	22	36	13	40	57	8440-430TR	8440-530TR

Get a 'Handle' on the  
Huge Range  
of Options  
from  
WDS

Section 16





# WDS 8440

## Knurled Knob

**MATERIAL -**

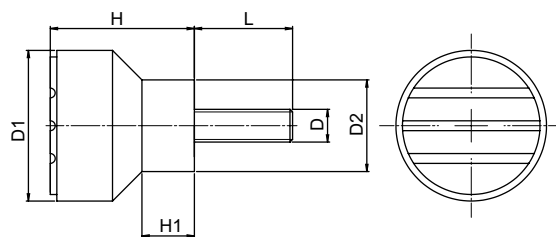
Body - Thermoplastic

Screw - Steel - zinc plated


Screw - Stainless Steel - 303 S31

ZP

303

RAL  
1021

Cadmium Yellow - RAL 1021

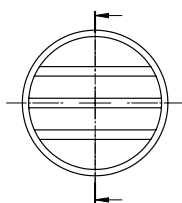
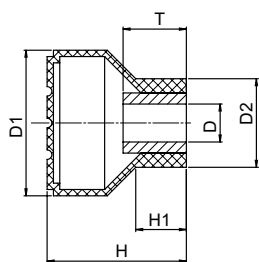
D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	21	14	22	8	10	12	8440-402CY	8440-502CY
M5	21	14	22	8	15	13	8440-404CY	8440-504CY
M5	21	14	22	8	20	14	8440-406CY	8440-506CY
M5	21	14	22	8	25	15	8440-408CY	8440-508CY
M6	21	14	22	8	15	14	8440-410CY	8440-510CY
M6	21	14	22	8	20	15	8440-412CY	8440-512CY
M6	21	14	22	8	25	16	8440-414CY	8440-514CY
M6	21	14	22	8	30	17	8440-416CY	8440-516CY
M8	26	18	26	9.5	20	35	8440-418CY	8440-518CY
M8	26	18	26	9.5	25	37	8440-420CY	8440-520CY
M8	26	18	26	9.5	30	39	8440-422CY	8440-522CY
M8	26	18	26	9.5	40	43	8440-424CY	8440-524CY
M10	34	22	36	13	20	45	8440-426CY	8440-526CY
M10	34	22	36	13	30	51	8440-428CY	8440-528CY
M10	34	22	36	13	40	57	8440-430CY	8440-530CY

**New Styles**  
**New Features**  
**New Finishes**

Check out the  
**WDS Improved Range  
of Hinges**







## WDS 8440

### Knurled Knob

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31

ZP

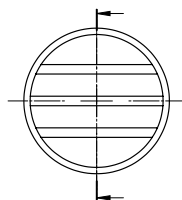
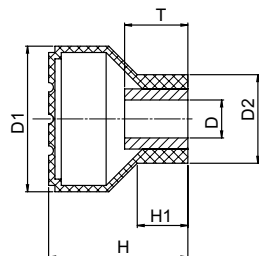
303

RAL  
7021

#### Related Products: Studs

Black Grey - RAL 7021

D	D1	D2	H	H1	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	14	22	8	10	9.5	8440-202BG	8440-302BG
M5	21	14	22	8	10	9.2	8440-204BG	8440-304BG
M6	21	14	22	8	10	8.5	8440-206BG	8440-306BG
M8	26	18	26	9.5	14	21.3	8440-208BG	8440-308BG
M8	34	22	36	13	14	25.5	8440-210BG	8440-310BG
M10	34	22	36	13	14	23.8	8440-212BG	8440-312BG



## WDS 8440

### Knurled Knob

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31

ZP

303

RAL  
7035

#### Related Products: Studs

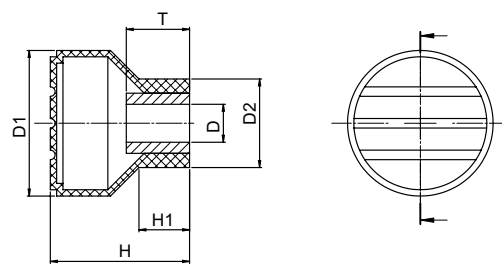
Pale Grey - RAL 7035

D	D1	D2	H	H1	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	14	22	8	10	9.5	8440-202PG	8440-302PG
M5	21	14	22	8	10	9.2	8440-204PG	8440-304PG
M6	21	14	22	8	10	8.5	8440-206PG	8440-306PG
M8	26	18	26	9.5	14	21.3	8440-208PG	8440-308PG
M8	34	22	36	13	14	25.5	8440-210PG	8440-310PG
M10	34	22	36	13	14	23.8	8440-212PG	8440-312PG

# WDS 8440


## Knurled Knob

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

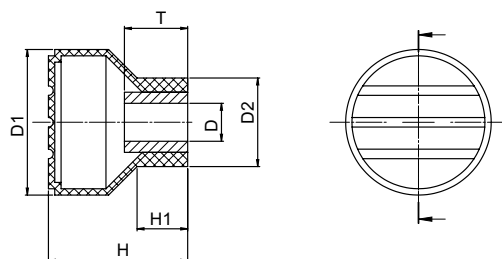
Traffic Red - RAL 3020

D	D1	D2	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	14	22	8	10	9.5	8440-202TR	8440-302TR
M5	21	14	22	8	10	9.2	8440-204TR	8440-304TR
M6	21	14	22	8	10	8.5	8440-206TR	8440-306TR
M8	26	18	26	9.5	14	21.3	8440-208TR	8440-308TR
M8	34	22	36	13	14	25.5	8440-210TR	8440-310TR
M10	34	22	36	13	14	23.8	8440-212TR	8440-312TR

# WDS 8440


## Knurled Knob

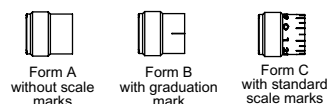
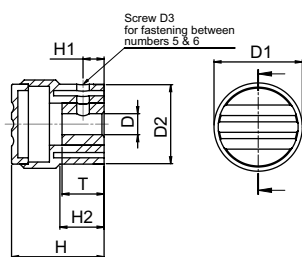
**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

Cadmium Yellow - RAL 1021

D	D1	D2	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M4	21	14	22	8	10	9.5	8440-202CY	8440-302CY
M5	21	14	22	8	10	9.2	8440-204CY	8440-304CY
M6	21	14	22	8	10	8.5	8440-206CY	8440-306CY
M8	26	18	26	9.5	14	21.3	8440-208CY	8440-308CY
M8	34	22	36	13	14	25.5	8440-210CY	8440-310CY
M10	34	22	36	13	14	23.8	8440-212CY	8440-312CY



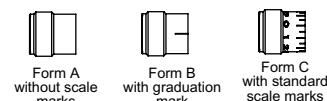
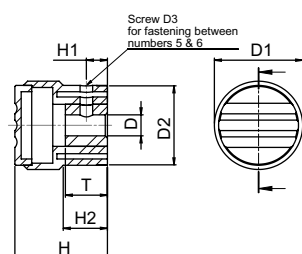
## WDS 8450 Graduated Knob

**MATERIAL -**  
Body - Thermoplastic  
Steel parts - zinc plated



**Black Grey - RAL 7021**

D H8	D1	D2	D3	H	H1	H2	T	(g)	WDS No. Form A	WDS No. Form B	WDS No. Form C
5	21	19	M3	22	5	10.5	10	11	8450-202BG	8450-302BG	8450-402BG
6	26	23	M3	26	6	12	10	23	8450-204BG	8450-304BG	8450-404BG
8	34	31	M4	36	7	17.5	14	32	8450-206BG	8450-306BG	8450-406BG



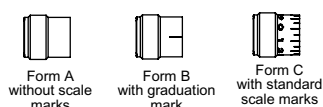
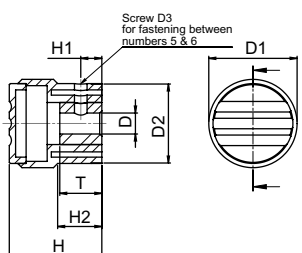
## WDS 8450 Graduated Knob

**MATERIAL -**  
Body - Thermoplastic  
Steel parts - zinc plated



**Pale Grey - RAL 7035**

D H8	D1	D2	D3	H	H1	H2	T	(g)	WDS No. Form A	WDS No. Form B	WDS No. Form C
5	21	19	M3	22	5	10.5	10	11	8450-202PG	8450-302PG	8450-402PG
6	26	23	M3	26	6	12	10	23	8450-204PG	8450-304PG	8450-404PG
8	34	31	M4	36	7	17.5	14	32	8450-206PG	8450-306PG	8450-406PG



## WDS 8450 Graduated Knob

**MATERIAL -**  
Body - Thermoplastic  
Steel parts - zinc plated



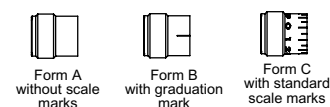
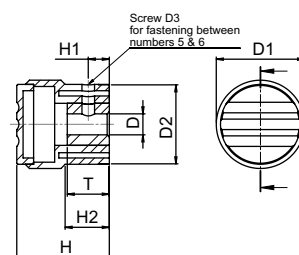
**Traffic Red - RAL 3020**

D H8	D1	D2	D3	H	H1	H2	T	(g)	WDS No. Form A	WDS No. Form B	WDS No. Form C
5	21	19	M3	22	5	10.5	10	11	8450-202TR	8450-302TR	8450-402TR
6	26	23	M3	26	6	12	10	23	8450-204TR	8450-304TR	8450-404TR
8	34	31	M4	36	7	17.5	14	32	8450-206TR	8450-306TR	8450-406TR


# WDS 8450

## Graduated Knob

**MATERIAL -**  
Body - Thermoplastic  
Steel parts - zinc plated



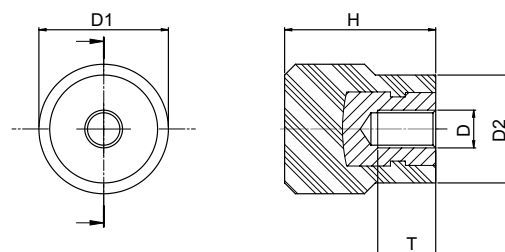
**Cadmium Yellow - RAL 1021**

D <sup>H8</sup>	D1	D2	D3	H	H1	H2	T	 (g)	WDS No. Form A	WDS No. Form B	WDS No. Form C
5	21	19	M3	22	5	10.5	10	11	8450-202CY	8450-302CY	8450-402CY
6	26	23	M3	26	6	12	10	23	8450-204CY	8450-304CY	8450-404CY
8	34	31	M4	36	7	17.5	14	32	8450-206CY	8450-306CY	8450-406CY


# WDS 8151

## Thumb Nut

**MATERIAL -**  
Bakelite, black  
Insert - Brass



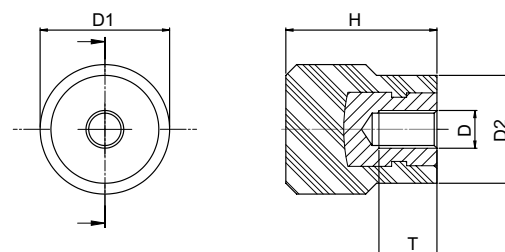
**Related Products: Studs**

D	D1	D2	H	T	 (g)	WDS No.
M3	12	10	14	6.5	5	8151-211
M4	12	10	14	10	5	8151-212
M4	15	12	16	10	6	8151-213
M5	15	12	16	10	6	8151-214
M6	15	12	16	9	6	8151-215


# WDS 8151

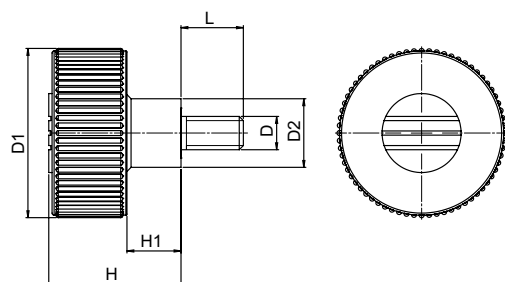
## Thumb Nut

**MATERIAL -**  
Bakelite, black  
Insert - Brass



**Related Products: Studs**

D	D1	D2	H	T	 (g)	WDS No.
M5	17	12	22	10	5	8151-216
M6	17	12	22	9	6	8151-217




## WDS 8485

### Knurled Wheel - Male Thread

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



Black Grey - RAL 7021

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	40	16.5	31	13	10	16	8485-502BG	8485-602BG
M5	40	16.5	31	13	20	17	8485-504BG	8485-604BG
M5	40	16.5	31	13	40	20	8485-506BG	-
M6	40	16.5	31	13	10	17	8485-508BG	8485-608BG
M6	40	16.5	31	13	20	19	8485-510BG	8485-610BG
M6	40	16.5	31	13	40	23	8485-512BG	8485-612BG
M8	40	16.5	31	13	15	23	8485-514BG	8485-614BG
M8	40	16.5	31	13	30	29	8485-516BG	8485-616BG
M8	40	16.5	31	13	60	41	8485-518BG	8485-618BG
M8	50	18	36	15	15	26	8485-520BG	8485-620BG
M8	50	18	36	15	30	32	8485-522BG	8485-622BG
M8	50	18	36	15	60	44	8485-524BG	8485-624BG
M10	50	18	36	15	20	35	8485-526BG	8485-626BG
M10	50	18	36	15	30	41	8485-528BG	8485-628BG
M10	50	18	36	15	60	60	8485-530BG	8485-630BG
M10	63	22	41	17	20	39	8485-532BG	8485-632BG
M10	63	22	41	17	30	46	8485-534BG	8485-634BG
M10	63	22	41	17	60	64	8485-536BG	8485-636BG
M12	63	22	41	17	30	61	8485-538BG	-
M12	63	22	41	17	60	87	8485-540BG	-

## Try out our new Hinge Specifier

Let us help you choose  
the perfect hinge.

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# WDS 8485

## Knurled Wheel - Male Thread

### MATERIAL -

Body - Thermoplastic

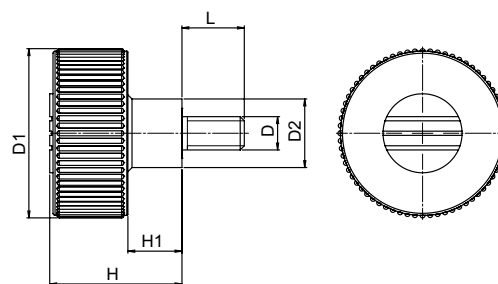
Insert - Steel - zinc plated

Insert - Stainless Steel - 303 S31


ZP

303

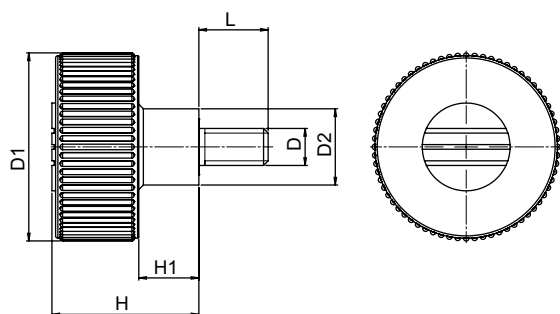
RAL  
7035



Pale Grey - RAL 7035

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	40	16.5	31	13	10	16	8485-502PG	8485-602PG
M5	40	16.5	31	13	20	17	8485-504PG	8485-604PG
M5	40	16.5	31	13	40	20	8485-506PG	-
M6	40	16.5	31	13	10	17	8485-508PG	8485-608PG
M6	40	16.5	31	13	20	19	8485-510PG	8485-610PG
M6	40	16.5	31	13	40	23	8485-512PG	8485-612PG
M8	40	16.5	31	13	15	23	8485-514PG	8485-614PG
M8	40	16.5	31	13	30	29	8485-516PG	8485-616PG
M8	40	16.5	31	13	60	41	8485-518PG	8485-618PG
M8	50	18	36	15	15	26	8485-520PG	8485-620PG
M8	50	18	36	15	30	32	8485-522PG	8485-622PG
M8	50	18	36	15	60	44	8485-524PG	8485-624PG
M10	50	18	36	15	20	35	8485-526PG	8485-626PG
M10	50	18	36	15	30	41	8485-528PG	8485-628PG
M10	50	18	36	15	60	60	8485-530PG	8485-630PG
M10	63	22	41	17	20	39	8485-532PG	8485-632PG
M10	63	22	41	17	30	46	8485-534PG	8485-634PG
M10	63	22	41	17	60	64	8485-536PG	8485-636PG
M12	63	22	41	17	30	61	8485-538PG	-
M12	63	22	41	17	60	87	8485-540PG	-






# WDS 8485

## Knurled Wheel - Male Thread

**MATERIAL -**  
Body - Thermoplastic  
Insert - Steel - zinc plated  
Insert - Stainless Steel - 303 S31



Traffic Red - RAL 3020

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	40	16.5	31	13	10	16	8485-502TR	8485-602TR
M5	40	16.5	31	13	20	17	8485-504TR	8485-604TR
M5	40	16.5	31	13	40	20	8485-506TR	-
M6	40	16.5	31	13	10	17	8485-508TR	8485-608TR
M6	40	16.5	31	13	20	19	8485-510TR	8485-610TR
M6	40	16.5	31	13	40	23	8485-512TR	8485-612TR
M8	40	16.5	31	13	15	23	8485-514TR	8485-614TR
M8	40	16.5	31	13	30	29	8485-516TR	8485-616TR
M8	40	16.5	31	13	60	41	8485-518TR	8485-618TR
M8	50	18	36	15	15	26	8485-520TR	8485-620TR
M8	50	18	36	15	30	32	8485-522TR	8485-622TR
M8	50	18	36	15	60	44	8485-524TR	8485-624TR
M10	50	18	36	15	20	35	8485-526TR	8485-626TR
M10	50	18	36	15	30	41	8485-528TR	8485-628TR
M10	50	18	36	15	60	60	8485-530TR	8485-630TR
M10	63	22	41	17	20	39	8485-532TR	8485-632TR
M10	63	22	41	17	30	46	8485-534TR	8485-634TR
M10	63	22	41	17	60	64	8485-536TR	8485-636TR
M12	63	22	41	17	30	61	8485-538TR	-
M12	63	22	41	17	60	87	8485-540TR	-

## All the characteristics of Bakelite...



...with 'knobs on'!  
**Section 11 & 13**



# WDS 8485

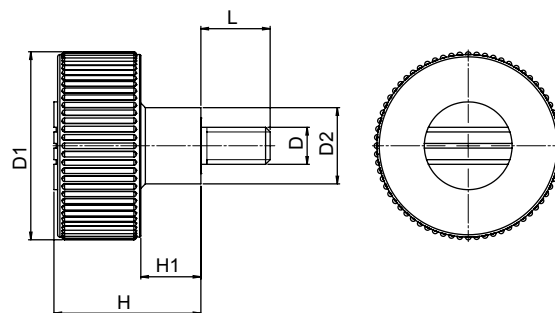
## Knurled Wheel - Male Thread

**MATERIAL -**


Body - Thermoplastic

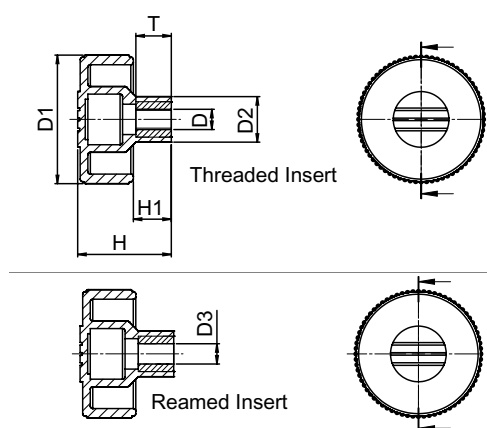
Insert - Steel - zinc plated

Insert - Stainless Steel - 303 S31



Cadmium Yellow - RAL 1021

D	D1	D2	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	40	16.5	31	13	10	16	8485-502CY	8485-602CY
M5	40	16.5	31	13	20	17	8485-504CY	8485-604CY
M5	40	16.5	31	13	40	20	8485-506CY	-
M6	40	16.5	31	13	10	17	8485-508CY	8485-608CY
M6	40	16.5	31	13	20	19	8485-510CY	8485-610CY
M6	40	16.5	31	13	40	23	8485-512CY	8485-612CY
M8	40	16.5	31	13	15	23	8485-514CY	8485-614CY
M8	40	16.5	31	13	30	29	8485-516CY	8485-616CY
M8	40	16.5	31	13	60	41	8485-518CY	8485-618CY
M8	50	18	36	15	15	26	8485-520CY	8485-620CY
M8	50	18	36	15	30	32	8485-522CY	8485-622CY
M8	50	18	36	15	60	44	8485-524CY	8485-624CY
M10	50	18	36	15	20	35	8485-526CY	8485-626CY
M10	50	18	36	15	30	41	8485-528CY	8485-628CY
M10	50	18	36	15	60	60	8485-530CY	8485-630CY
M10	63	22	41	17	20	39	8485-532CY	8485-632CY
M10	63	22	41	17	30	46	8485-534CY	8485-634CY
M10	63	22	41	17	60	64	8485-536CY	8485-636CY
M12	63	22	41	17	30	61	8485-538CY	-
M12	63	22	41	17	60	87	8485-540CY	-



# WDS 8485

## Knurled Wheel - Female Thread

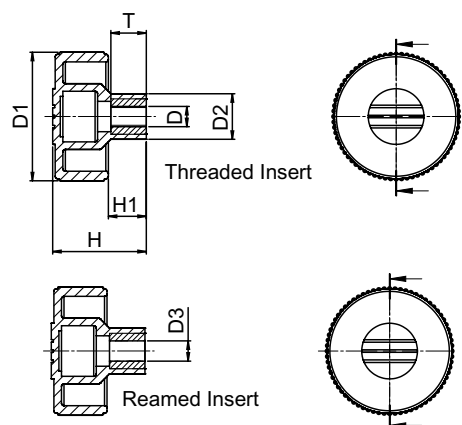
**MATERIAL -**  
Body - Thermoplastic  
Insert - Steel - zinc plated  
Insert - Stainless Steel - 303 S31



### Related Products: Studs

Black Grey - RAL 7021

D	D1	D2	D3 <sup>H8</sup>	H	H1	T	(g)	WDS No. Steel Threaded Insert	WDS Steel Reamed <sup>H8</sup> Insert	WDS No. Stainless Steel Insert
M5	40	16.5	-	31	13	10	12.5	8485-202BG	-	8485-402BG
M6	40	16.5	6	31	13	10	12.2	8485-204BG	8485-304BG	8485-404BG
M8	40	16.5	-	31	13	14	11.5	8485-206BG	-	8485-406BG
M8	50	18	8	36	15	14	14.5	8485-208BG	8485-308BG	8485-408BG
M10	50	18	-	36	15	14	14.1	8485-210BG	-	8485-410BG
M10	63	22	10	41	17	14	18.5	8485-212BG	8485-312BG	8485-412BG
M12	63	22	-	41	17	18	17.9	8485-214BG	-	8485-414BG



# WDS 8485

## Knurled Wheel - Female Thread

**MATERIAL -**  
Body - Thermoplastic  
Insert - Steel - zinc plated  
Insert - Stainless Steel - 303 S31



### Related Products: Studs

Pale Grey - RAL 7035

D	D1	D2	D3 <sup>H8</sup>	H	H1	T	(g)	WDS No. Steel Threaded Insert	WDS Steel Reamed <sup>H8</sup> Insert	WDS No. Stainless Steel Insert
M5	40	16.5	-	31	13	10	12.5	8485-202PG	-	8485-402PG
M6	40	16.5	6	31	13	10	12.2	8485-204PG	8485-304PG	8485-404PG
M8	40	16.5	-	31	13	14	11.5	8485-206PG	-	8485-406PG
M8	50	18	8	36	15	14	14.5	8485-208PG	8485-308PG	8485-408PG
M10	50	18	-	36	15	14	14.1	8485-210PG	-	8485-410PG
M10	63	22	10	41	17	14	18.5	8485-212PG	8485-312PG	8485-412PG
M12	63	22	-	41	17	18	17.9	8485-214PG	-	8485-414PG

# WDS 8485

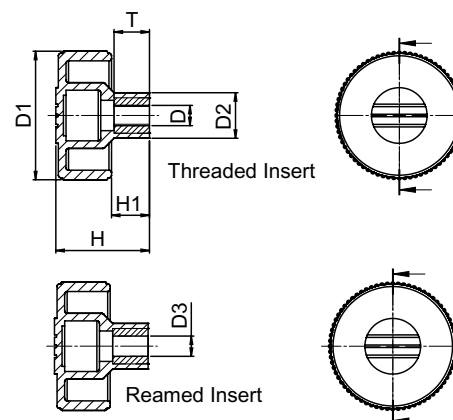
## Knurled Wheel - Female Thread

### MATERIAL -

Body - Thermoplastic


Insert - Steel - zinc plated

Insert - Stainless Steel - 303 S31



### Related Products: Studs

Traffic Red - RAL 3020

D	D1	D2	D3 <sup>H8</sup>	H	H1	T	 (g)	WDS No. Steel Threaded Insert	WDS Steel Reamed <sup>H8</sup> Insert	WDS No. Stainless Steel Insert
M5	40	16.5	-	31	13	10	12.5	8485-202TR	-	8485-402TR
M6	40	16.5	6	31	13	10	12.2	8485-204TR	8485-304TR	8485-404TR
M8	40	16.5	-	31	13	14	11.5	8485-206TR	-	8485-406TR
M8	50	18	8	36	15	14	14.5	8485-208TR	8485-308TR	8485-408TR
M10	50	18	-	36	15	14	14.1	8485-210TR	-	8485-410TR
M10	63	22	10	41	17	14	18.5	8485-212TR	8485-312TR	8485-412TR
M12	63	22	-	41	17	18	17.9	8485-214TR	-	8485-414TR

# WDS 8485

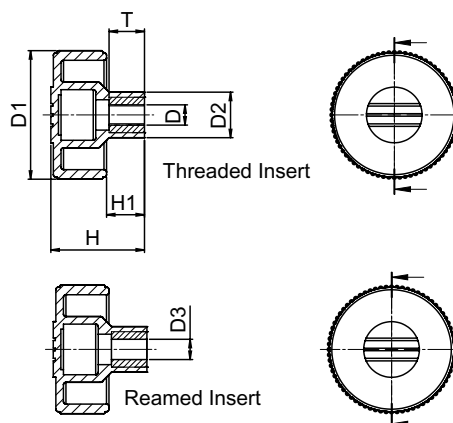
## Knurled Wheel - Female Thread

### MATERIAL -

Body - Thermoplastic


Insert - Steel - zinc plated

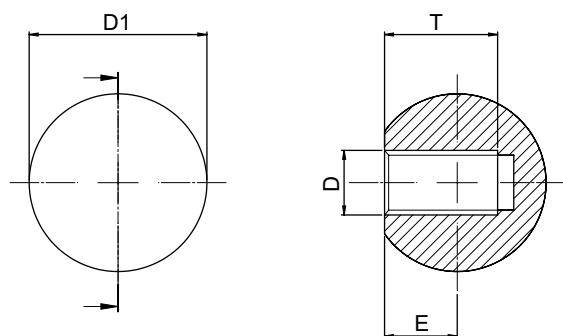
Insert - Stainless Steel - 303 S31



### Related Products: Studs

Cadmium Yellow - RAL 1021

D	D1	D2	D3 <sup>H8</sup>	H	H1	T	 (g)	WDS No. Steel Threaded Insert	WDS Steel Reamed <sup>H8</sup> Insert	WDS No. Stainless Steel Insert
M5	40	16.5	-	31	13	10	12.5	8485-202CY	-	8485-402CY
M6	40	16.5	6	31	13	10	12.2	8485-204CY	8485-304CY	8485-404CY
M8	40	16.5	-	31	13	14	11.5	8485-206CY	-	8485-406CY
M8	50	18	8	36	15	14	14.5	8485-208CY	8485-308CY	8485-408CY
M10	50	18	-	36	15	14	14.1	8485-210CY	-	8485-410CY
M10	63	22	10	41	17	14	18.5	8485-212CY	8485-312CY	8485-412CY
M12	63	22	-	41	17	18	17.9	8485-214CY	-	8485-414CY




# WDS 8143

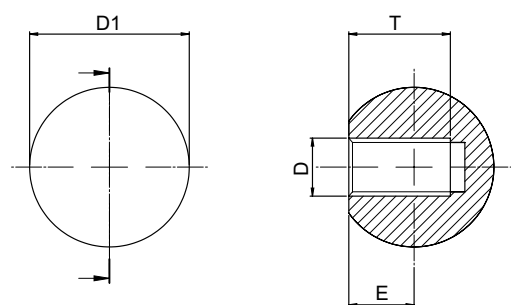
## Ball Knob - Black Steel Zinc Plated Insert

**MATERIAL -**  
Body - Bakelite Black  
Insert - Steel, Zinc Plated

See 8209 Series for this part in PAG

### Related Products: Ball Knob Handle

D	D1	E	T	 (g)	WDS No.
M4	16	7.3	9	4	8143-2104
M5	18	7.5	10	5	8143-2105
M5	20	8.5	10	8	8143-2107
M6	20	8	6.5	6	8143-211
M6	22	9.2	11	10	8143-2115
M6	25	11.5	12	14	8143-212
M8	25	10.5	11	15	8143-213
M8	30	13.5	16	23	8143-214
M8	32	13	12	30	8143-2153
M10	32	13	12	33	8143-2158
M10	35	15.5	14	40	8143-216
M10	40	17.5	22	55	8143-217
M10	45	20.7	20	75	8143-2175
M12	40	17.5	21	70	8143-218
M12	50	22.5	21	95	8143-219
M12	56	25	22	150	8143-220




# WDS 8143

## Ball Knob - Red Zinc Plated Steel Insert

**MATERIAL -**  
Body - PF31 (Bakelite)  
Insert - Steel, Zinc Plated

See 8209 Series for this part in PAG

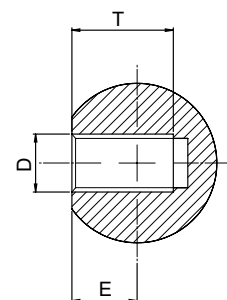
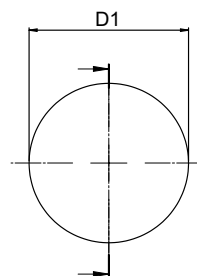
### Related Products: Ball Knob Handle

D	D1	E	T	 (g)	WDS No.
M6	22	9.2	11	10	8143-2115R
M8	28	10.5	16	19	8143-213R
M10	36	15.5	20	42	8143-216R
M12	45	17.5	22	85	8143-218R

# WDS 8143

## Ball Knob - Red Moulded Thread

MATERIAL -  
PF31 (Bakelite)



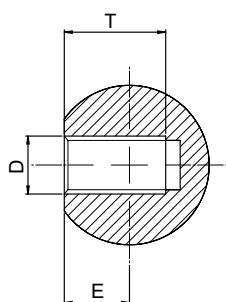
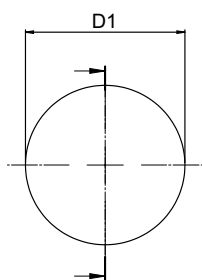
### Related Products: Ball Knob Handle

D	D1	E	T	⚖️ (g)	WDS No.
M4	16	7	8	3	8143-20045R
M5	18	8	10	4	8143-2005R
M6	22	9.3	13	7	8143-201R
M8	28	12	20	13	8143-203R
M8	30	13	18	17	8143-204R
M10	36	16	20	31	8143-206R
M10	40	21	25	42	8143-207R
M12	45	21	27	62	8143-2085R

## What type of **Handle** suits you?

Whatever the **size, colour, material and finish** -  
we have the perfect handle for you!






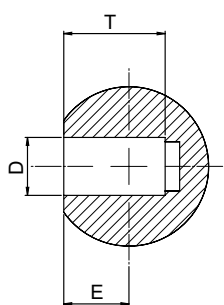
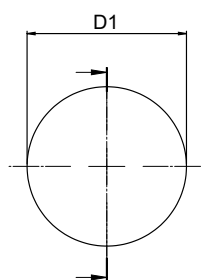
## WDS 8143

### Ball Knob - Black Moulded Thread

**MATERIAL -**  
Bakelite Black

#### Related Products: Ball Knob Handle

D	D1	E	T	 (g)	WDS No.
M4	12	5	8	1	8143-2004
M4	16	7	9	3	8143-20045
M5	16	7	7	2	8143-20048
M5	18	8	10	4	8143-2005
M5	20	8.5	10	5	8143-20055
M6	20	8	9	5	8143-20058
M6	22	9.3	13	7	8143-201
M6	25	10.5	12	10	8143-202
M6	36	16	22	33	8143-2025
M8	25	10.5	15	10	8143-203
M8	28	12	20	13	8143-2035
M8	32	13	14	17	8143-204
M10	32	12.5	18	17	8143-205
M10	36	16	20	31	8143-206
M10	40	21	25	42	8143-207
M10	45	21	20	64	8143-2075
M12	40	21	23	40	8143-208
M12	45	21	27	62	8143-2085
M12	50	22.5	31	67	8143-209
M12	56	25.8	20	125	8143-210



## WDS 8143

### Ball Knob Push Fit

**MATERIAL -**  
Thermoplastic Black

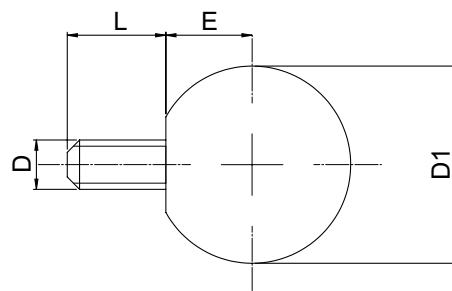
This item is a push fit on corresponding diameter to tolerance h9

D	D1	E	T	 (g)	WDS No.
8	22	9	14	10	8143-221
10	28	12	20	13	8143-2215
10	30	13	22	17	8143-222
12	30	13	22	16	8143-223
12	40	18	26	26	8143-225
14	40	18	28	25	8143-226
16	45	20.5	28	35	8143-227

# WDS 8143

## Ball Knob - Zinc Plated Steel Male Thread

**MATERIAL -**  
 Body - PF31 (Bakelite)  
 Thread - Zinc Plated, Steel

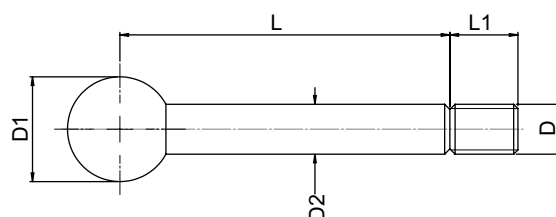


D	D1	E	L	⚖️ (g)	WDS No.
M4	16	7.3	8	5	8143-429
M5	18	8.5	10	10	8143-430
M6	22	9.2	10	11	8143-431
M8	30	13	15	27	8143-433
M10	45	20.7	20	90	8143-436

# WDS 135

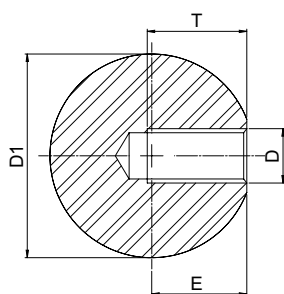
## Ball Knob Handle

**MATERIAL -**  
 Handle - Steel BS 970 Gr 220M07  
 Chemical black finish  
 Ball knob - Bakelite, black or red



D	L	D1	D2	L1	⚖️ (g)	WDS No. Metric Black	WDS No. Metric Red	WDS No. BSW Black
Metric	Inch							
-	3/8	63	20	10	13	50	-	135-01B
M10	-	63	25	10	14	50	135-201B	135-201R
M10	-	90	25	10	14	70	135-202B	135-202R
M12	1/2	120	40	12	16	150	135-203B	135-203R
M12	-	145	40	12	16	175	135-204B	135-204R






## WDS 8186

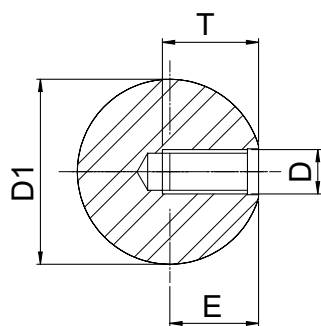
### Ball Knob

**MATERIAL -**  
Steel Chemical black finish

See 8231 Series for this part in  
Stainless Steel

#### Related Products: Ball Knob Handle

D	D1	E	T	 (g)	WDS No.
M6	25	12	13	63	8186-201
M8	30	14	16	110	8186-202
M10	35	16	18	156	8186-203
M12	45	21	22	340	8186-204
M16	57	27	28	710	8186-205




## WDS 8230

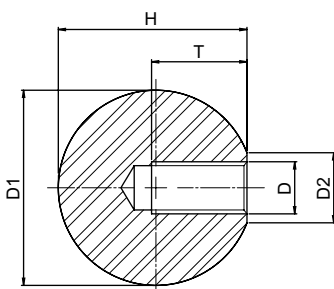
### Ball Knob

**MATERIAL -**  
Stainless Steel  
BS 970 Gr 316 S11

316

See 8186 Series for this part in  
Steel

D	D1	E	T	 (g)	WDS No.
M6	25	12	13	63	8230-206
M8	30	14	16	110	8230-208
M10	35	16	18	156	8230-210
M12	45	21	22	340	8230-212




## WDS 8202

### Ball Knob

**MATERIAL -**  
Aluminium  
Polished

Al

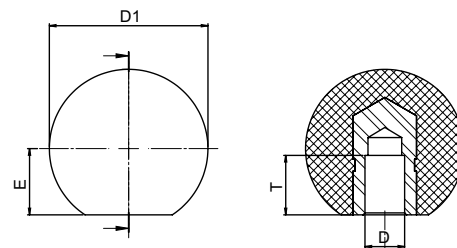
See 8231 Series for this part in  
Stainless Steel

D	D1	D2	H	T	 (g)	WDS No.
M4	16	8	15	7	6	8202-201
M5	20	12	18	9	11	8202-202
M6	25	15	22.5	11	21	8202-203
M8	32	18	29	14.5	43	8202-204
M10	40	22	37	18	85	8202-205
M12	50	28	46	21	165	8202-206

# WDS 8209

## Ball Knob - Threaded Insert

**MATERIAL -**  
PA6, Zinc plated Steel insert  
**Finish - Matt Black**



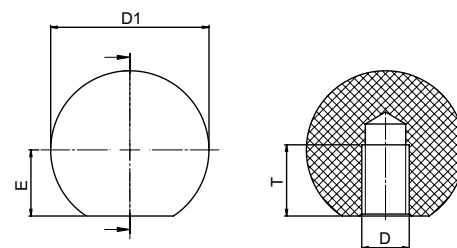
### Related Products: Ball Knob Handle

D	D1	E	T min	⚖️ (g)	WDS No.
M5	20	8	7.5	8	8209-10520
M6	20	8	7.5	8	8209-10620
M6	25	10	9	16	8209-10625
M8	25	10	9	16	8209-10825
M8	32	13	12	29	8209-10832
M10	32	13	12	32	8209-11032

# WDS 8209

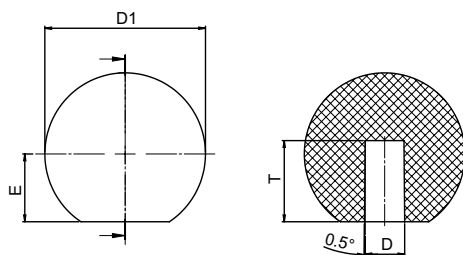
## Ball Knob - Moulded Thread

**MATERIAL -**  
PA6 Matt Black  
**Finish - Matt Black**



### Related Products: Ball Knob Handle

D	D1	E	T min	⚖️ (g)	WDS No.
M4	16	7	7	3	8209-20416
M5	16	7	7	3	8209-20516
M5	20	8	7.5	5	8209-20520
M6	20	8	7.5	5	8209-20620
M6	25	10	9	10	8209-20625
M8	25	10	9	10	8209-20825
M8	32	13	12	29	8209-20832
M10	32	13	12	21	8209-21032
M10	40	17	18	43	8209-21040
M12	40	17	18	41	8209-21240



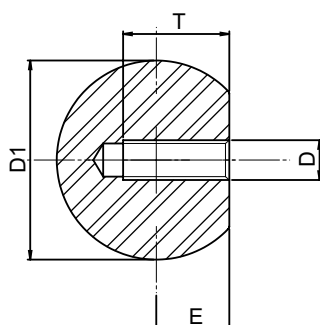
## WDS 8209

### Ball Knob - Taper Fit

**MATERIAL** -  
PA6 Matt black, taper fit  
**Finish** - Matt Black

'D' to suit mating part with h9 tolerance.

D	D1	E	T min	⚖️ (g)	WDS No.
5	20	8	12	5	8209-30520
6	25	10	15	10	8209-30625
8	25	10	15	10	8209-30825
8	32	13	15	21	8209-30832
10	32	13	15	21	8209-31032
10	40	17	20	42	8209-31040
12	40	17	20	40	8209-31240



## WDS 8231

### Ball Knob

**MATERIAL** -  
304 Stainless Steel  
**Finish** - Matt or Polished

304

Matt Finish

D	D1	E	T	⚖️ (g)	WDS No.
M3	15	5.5	8	12.5	8231-103
M4	20	8	9	12.5	8231-104
M5	20	8	9	12.5	8231-105
M6	25	10	11	60	8231-106
M8	32	13	14.5	123.5	8231-108
M10	40	17	18	247	8231-110
M12	50	20	24	485	8231-112

Polished Finish

D	D1	E	T	⚖️ (g)	WDS No.
M3	15	5.5	8	12.5	8231-203
M4	20	8	9	12.5	8231-204
M5	20	8	9	12.5	8231-205
M6	25	10	11	60	8231-206
M8	32	13	14.5	123.5	8231-208
M10	40	17	18	247	8231-210
M12	50	20	24	485	8231-212

# WDS 8470

## Grip Ball

**MATERIAL -**

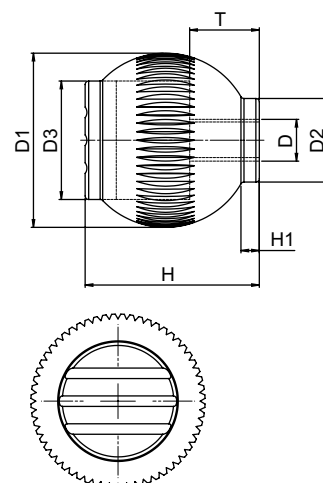
Body - Thermoplastic

Insert - Steel - zinc plated


Insert - Stainless Steel - 303 S31

ZP

303

RAL  
7021**Related Products: Studs**

Black Grey - RAL 7021

D	D1	D2	D3	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel
M6	25	12	17	25	2.5	10	14	8470-202BG	8470-302BG
M8	32	15.5	19	33	3.2	14	23	8470-204BG	8470-304BG
M10	40	19	23	41.5	4	14	42	8470-206BG	8470-306BG
M10	50	24	31	51	5	14	70	8470-208BG	8470-308BG
M12	50	24	31	51	5	18	72	8470-210BG	8470-310BG

# WDS 8470

## Grip Ball

**MATERIAL -**

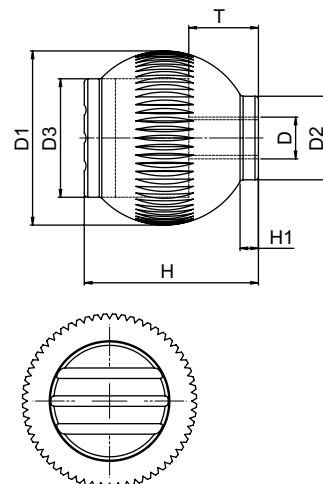
Body - Thermoplastic

Insert - Steel - zinc plated


Insert - Stainless Steel - 303 S31

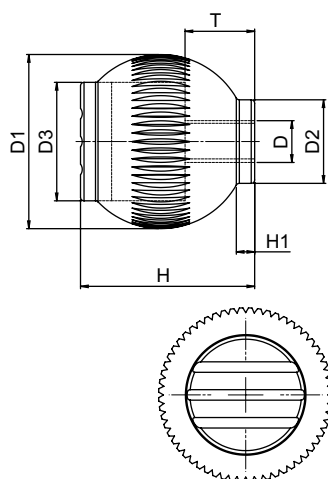
ZP

303

RAL  
7035**Related Products: Studs**

Pale Grey - RAL 7035

D	D1	D2	D3	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel
M6	25	12	17	25	2.5	10	14	8470-202PG	8470-302PG
M8	32	15.5	19	33	3.2	14	23	8470-204PG	8470-304PG
M10	40	19	23	41.5	4	14	42	8470-206PG	8470-306PG
M10	50	24	31	51	5	14	70	8470-208PG	8470-308PG
M12	50	24	31	51	5	18	72	8470-210PG	8470-310PG



# WDS 8470

## Grip Ball

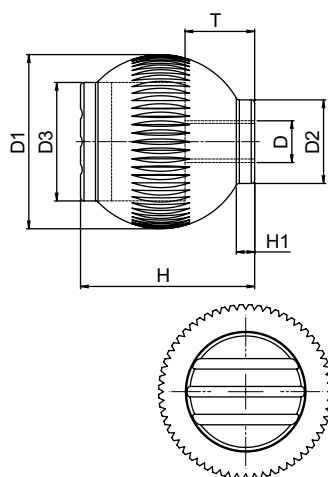
**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

Traffic Red - RAL 3020

D	D1	D2	D3	H	H1	T	(g)	WDS No. Steel Insert	WDS No. Stainless Steel
M6	25	12	17	25	2.5	10	14	8470-202TR	8470-302TR
M8	32	15.5	19	33	3.2	14	23	8470-204TR	8470-304TR
M10	40	19	23	41.5	4	14	42	8470-206TR	8470-306TR
M10	50	24	31	51	5	14	70	8470-208TR	8470-308TR
M12	50	24	31	51	5	18	72	8470-210TR	8470-310TR



# WDS 8470

## Grip Ball

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

Cadmium Yellow - RAL 1021

D	D1	D2	D3	H	H1	T	(g)	WDS No. Steel Insert	WDS No. Stainless Steel
M6	25	12	17	25	2.5	10	14	8470-202CY	8470-302CY
M8	32	15.5	19	33	3.2	14	23	8470-204CY	8470-304CY
M10	40	19	23	41.5	4	14	42	8470-206CY	8470-306CY
M10	50	24	31	51	5	14	70	8470-208CY	8470-308CY
M12	50	24	31	51	5	18	72	8470-210CY	8470-310CY

# WDS 8470

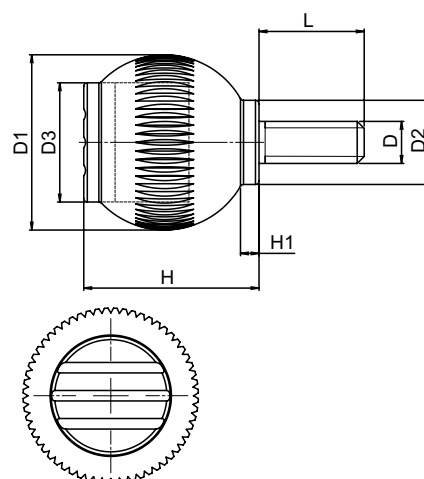
## Grip Ball

### MATERIAL -


Body - Thermoplastic

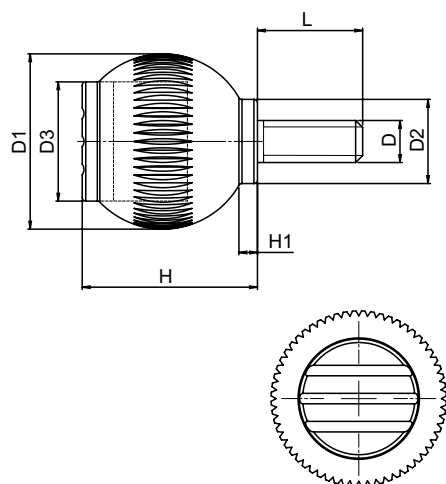
Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31



Black Grey - RAL 7021

D	D1	D2	D3	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M6	25	12	17	25	2.5	15	20	8470-402BG	8470-502BG
M6	25	12	17	25	2.5	20	21	8470-404BG	8470-504BG
M6	25	12	17	25	2.5	25	22	8470-406BG	8470-506BG
M6	25	12	17	25	2.5	30	24	8470-408BG	8470-508BG
M8	32	15.5	19	33	3.2	20	36	8470-410BG	8470-510BG
M8	32	15.5	19	33	3.2	25	38	8470-412BG	8470-512BG
M8	32	15.5	19	33	3.2	30	40	8470-414BG	8470-514BG
M8	32	15.5	19	33	3.2	40	44	8470-416BG	8470-516BG
M10	40	19	23	41.5	4	20	63	8470-418BG	8470-518BG
M10	40	19	23	41.5	4	30	69	8470-420BG	8470-520BG
M10	40	19	23	41.5	4	40	75	8470-422BG	8470-522BG
M10	50	24	31	51	5	20	91	8470-424BG	8470-524BG
M10	50	24	31	51	5	30	97	8470-426BG	8470-526BG
M10	50	24	31	51	5	40	103	8470-428BG	8470-528BG
M12	50	24	31	51	5	20	106	8470-430BG	8470-530BG
M12	50	24	31	51	5	30	115	8470-432BG	8470-532BG
M12	50	24	31	51	5	40	123	8470-434BG	8470-534BG



## WDS 8470

### Grip Ball

#### MATERIAL -


Body - Thermoplastic

Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31



Pale Grey - RAL 7035

D	D1	D2	D3	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M6	25	12	17	25	2.5	15	20	8470-402PG	8470-502PG
M6	25	12	17	25	2.5	20	21	8470-404PG	8470-504PG
M6	25	12	17	25	2.5	25	22	8470-406PG	8470-506PG
M6	25	12	17	25	2.5	30	24	8470-408PG	8470-508PG
M8	32	15.5	19	33	3.2	20	36	8470-410PG	8470-510PG
M8	32	15.5	19	33	3.2	25	38	8470-412PG	8470-512PG
M8	32	15.5	19	33	3.2	30	40	8470-414PG	8470-514PG
M8	32	15.5	19	33	3.2	40	44	8470-416PG	8470-516PG
M10	40	19	23	41.5	4	20	63	8470-418PG	8470-518PG
M10	40	19	23	41.5	4	30	69	8470-420PG	8470-520PG
M10	40	19	23	41.5	4	40	75	8470-422PG	8470-522PG
M10	50	24	31	51	5	20	91	8470-424PG	8470-524PG
M10	50	24	31	51	5	30	97	8470-426PG	8470-526PG
M10	50	24	31	51	5	40	103	8470-428PG	8470-528PG
M12	50	24	31	51	5	20	106	8470-430PG	8470-530PG
M12	50	24	31	51	5	30	115	8470-432PG	8470-532PG
M12	50	24	31	51	5	40	123	8470-434PG	8470-534PG

## Brand new 316 Stainless Steel



# THUMB KNOBS



## in two attractive finishes

## Section 11



# WDS 8470

## Grip Ball

**MATERIAL -**

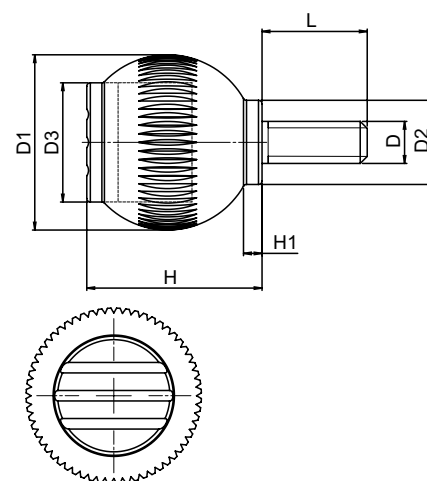
Body - Thermoplastic

Screw - Steel - zinc plated


Screw - Stainless Steel - 303 S31

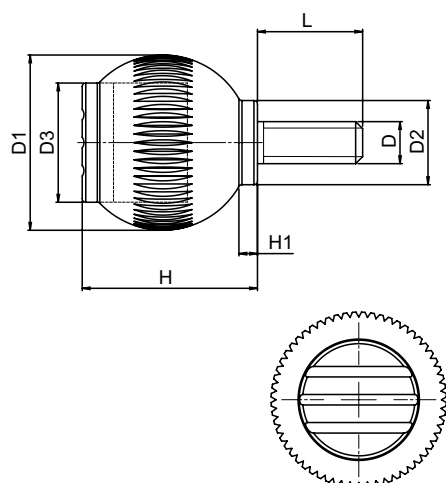
ZP

303

RAL  
3020

Traffic Red - RAL 3020

D	D1	D2	D3	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M6	25	12	17	25	2.5	15	20	8470-402TR	8470-502TR
M6	25	12	17	25	2.5	20	21	8470-404TR	8470-504TR
M6	25	12	17	25	2.5	25	22	8470-406TR	8470-506TR
M6	25	12	17	25	2.5	30	24	8470-408TR	8470-508TR
M8	32	15.5	19	33	3.2	20	36	8470-410TR	8470-510TR
M8	32	15.5	19	33	3.2	25	38	8470-412TR	8470-512TR
M8	32	15.5	19	33	3.2	30	40	8470-414TR	8470-514TR
M8	32	15.5	19	33	3.2	40	44	8470-416TR	8470-516TR
M10	40	19	23	41.5	4	20	63	8470-418TR	8470-518TR
M10	40	19	23	41.5	4	30	69	8470-420TR	8470-520TR
M10	40	19	23	41.5	4	40	75	8470-422TR	8470-522TR
M10	50	24	31	51	5	20	91	8470-424TR	8470-524TR
M10	50	24	31	51	5	30	97	8470-426TR	8470-526TR
M10	50	24	31	51	5	40	103	8470-428TR	8470-528TR
M12	50	24	31	51	5	20	106	8470-430TR	8470-530TR
M12	50	24	31	51	5	30	115	8470-432TR	8470-532TR
M12	50	24	31	51	5	40	123	8470-434TR	8470-534TR




## WDS 8470

### Grip Ball

**MATERIAL -**  
 Body - Thermoplastic with choice of coloured cap  
 Screw - Steel - zinc plated  
 Screw - Stainless Steel - 303 S31



Cadmium Yellow - RAL 1021

D	D1	D2	D3	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M6	25	12	17	25	2.5	15	20	8470-402CY	8470-502CY
M6	25	12	17	25	2.5	20	21	8470-404CY	8470-504CY
M6	25	12	17	25	2.5	25	22	8470-406CY	8470-506CY
M6	25	12	17	25	2.5	30	24	8470-408CY	8470-508CY
M8	32	15.5	19	33	3.2	20	36	8470-410CY	8470-510CY
M8	32	15.5	19	33	3.2	25	38	8470-412CY	8470-512CY
M8	32	15.5	19	33	3.2	30	40	8470-414CY	8470-514CY
M8	32	15.5	19	33	3.2	40	44	8470-416CY	8470-516CY
M10	40	19	23	41.5	4	20	63	8470-418CY	8470-518CY
M10	40	19	23	41.5	4	30	69	8470-420CY	8470-520CY
M10	40	19	23	41.5	4	40	75	8470-422CY	8470-522CY
M10	50	24	31	51	5	20	91	8470-424CY	8470-524CY
M10	50	24	31	51	5	30	97	8470-426CY	8470-526CY
M10	50	24	31	51	5	40	103	8470-428CY	8470-528CY
M12	50	24	31	51	5	20	106	8470-430CY	8470-530CY
M12	50	24	31	51	5	30	115	8470-432CY	8470-532CY
M12	50	24	31	51	5	40	123	8470-434CY	8470-534CY

## What type of **Handle** suits you?

Whatever the **size**, **colour**, **material** and **finish** -  
 we have the perfect handle for you!



# WDS 8470

## Grip Ball with Revolving Spindle

### MATERIAL -

Body - Thermoplastic

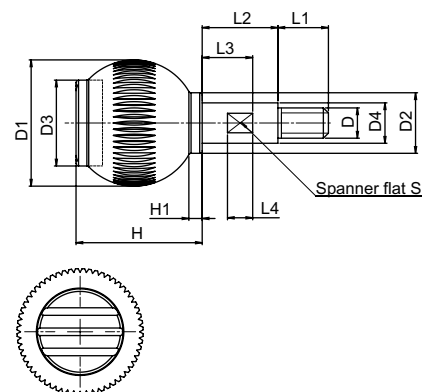
Spindle - Steel - zinc plated

Spindle - Stainless Steel - 303 S31


ZP

303

RAL  
7021



Black Grey - RAL 7021

D	D1	D2	D3	D4	H	H1	L1	L2	L3	L4	S	 (g)	WDS No. Steel Spindle	WDS No. Stainless Steel Spindle
M6	25	12	17	8	25	2.5	10	15	5	5	7	20	8470-602BG	8470-702BG
M8	32	15.5	19	10	33	3.2	12	20	6	6	8	42	8470-604BG	8470-704BG
M10	40	19	23	13	41.5	4	15	25	7	9	10	85	8470-606BG	8470-706BG
M12	50	24	31	16	51	5	20	30	8	8	13	157	8470-608BG	8470-708BG

# WDS 8470

## Grip Ball with Revolving Spindle

### MATERIAL -

Body - Thermoplastic

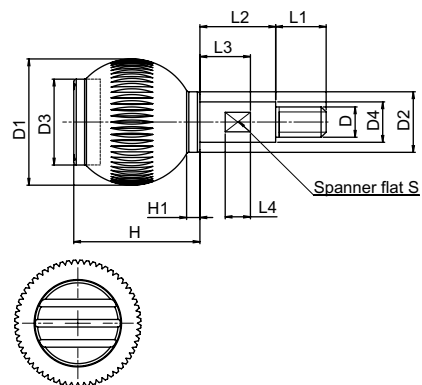
Spindle - Steel - zinc plated

Spindle - Stainless Steel - 303 S31


ZP

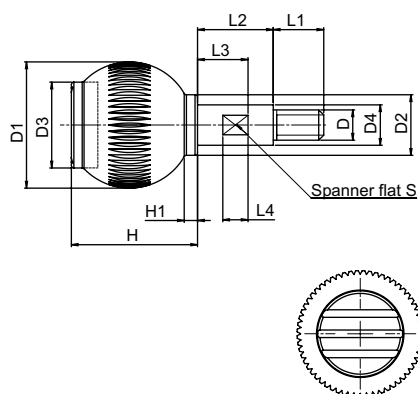
303

RAL  
7035



Pale Grey - RAL 7035

D	D1	D2	D3	D4	H	H1	L1	L2	L3	L4	S	 (g)	WDS No. Steel Spindle	WDS No. Stainless Steel Spindle
M6	25	12	17	8	25	2.5	10	15	5	5	7	20	8470-602PG	8470-702PG
M8	32	15.5	19	10	33	3.2	12	20	6	6	8	42	8470-604PG	8470-704PG
M10	40	19	23	13	41.5	4	15	25	7	9	10	85	8470-606PG	8470-706PG
M12	50	24	31	16	51	5	20	30	8	8	13	157	8470-608PG	8470-708PG




# WDS 8470

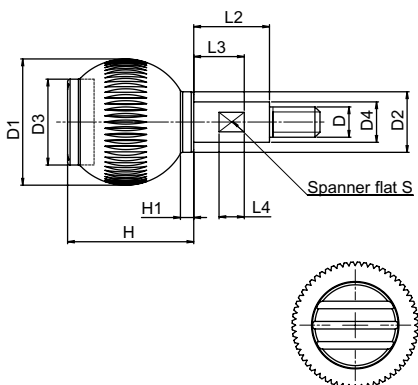
## Grip Ball with Revolving Spindle

**MATERIAL -**  
 Body - Thermoplastic  
 Spindle - Steel - zinc plated  
 Spindle - Stainless Steel - 303 S31



Traffic Red - RAL 3020

D	D1	D2	D3	D4	H	H1	L1	L2	L3	L4	S	 (g)	WDS No. Steel Spindle	WDS No. Stainless Steel Spindle
M6	25	12	17	8	25	2.5	10	15	5	5	7	20	8470-602TR	8470-702TR
M8	32	15.5	19	10	33	3.2	12	20	6	6	8	42	8470-604TR	8470-704TR
M10	40	19	23	13	41.5	4	15	25	7	9	10	85	8470-606TR	8470-706TR
M12	50	24	31	16	51	5	20	30	8	8	13	157	8470-608TR	8470-708TR




# WDS 8470

## Grip Ball with Revolving Spindle

**MATERIAL -**  
 Body - Thermoplastic  
 Spindle - Steel - zinc plated  
 Spindle - Stainless Steel - 303 S31



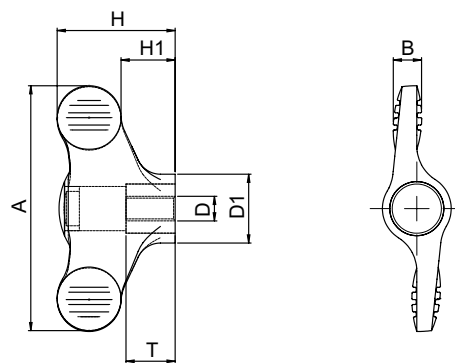
Cadmium Yellow - RAL 1021

D	D1	D2	D3	D4	H	H1	L1	L2	L3	L4	S	 (g)	WDS No. Steel Spindle	WDS No. Stainless Steel Spindle
M6	25	12	17	8	25	2.5	10	15	5	5	7	20	8470-602CY	8470-702CY
M8	32	15.5	19	10	33	3.2	12	20	6	6	8	42	8470-604CY	8470-704CY
M10	40	19	23	13	41.5	4	15	25	7	9	10	85	8470-606CY	8470-706CY
M12	50	24	31	16	51	5	20	30	8	8	13	157	8470-608CY	8470-708CY

# WDS 8460


## Wing Grip - Female

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



**Related Products:** Studs

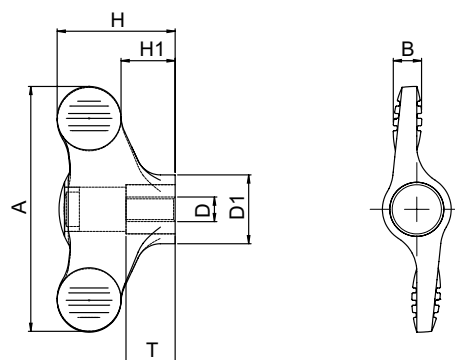
**Black Grey - RAL 7021**

D	D1	A	B	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel
M5	14	50	5	24	11.5	10	11.4	8460-202BG	8460-302BG
M6	14	50	5	24	11.5	10	10.8	8460-204BG	8460-304BG
M8	21	75	7	35	16.5	14	28.7	8460-206BG	8460-306BG
M10	21	75	7	35	16.5	14	25.2	8460-208BG	8460-308BG

# WDS 8460


## Wing Grip - Female

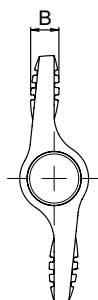
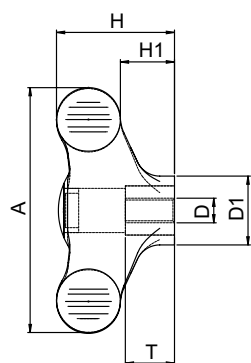
**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



**Related Products:** Studs

**Pale Grey - RAL 7035**

D	D1	A	B	H	H1	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel
M5	14	50	5	24	11.5	10	11.4	8460-202PG	8460-302PG
M6	14	50	5	24	11.5	10	10.8	8460-204PG	8460-304PG
M8	21	75	7	35	16.5	14	28.7	8460-206PG	8460-306PG
M10	21	75	7	35	16.5	14	25.2	8460-208PG	8460-308PG



# WDS 8460

## Wing Grip - Female

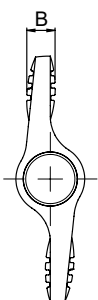
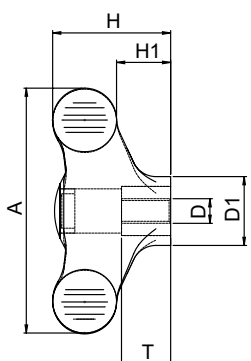
**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

Traffic Red - RAL 3020

D	D1	A	B	H	H1	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel
M5	14	50	5	24	11.5	10	11.4	8460-202TR	8460-302TR
M6	14	50	5	24	11.5	10	10.8	8460-204TR	8460-304TR
M8	21	75	7	35	16.5	14	28.7	8460-206TR	8460-306TR
M10	21	75	7	35	16.5	14	25.2	8460-208TR	8460-308TR



# WDS 8460

## Wing Grip - Female

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

Cadmium Yellow - RAL 1021

D	D1	A	B	H	H1	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel
M5	14	50	5	24	11.5	10	11.4	8460-202CY	8460-302CY
M6	14	50	5	24	11.5	10	10.8	8460-204CY	8460-304CY
M8	21	75	7	35	16.5	14	28.7	8460-206CY	8460-306CY
M10	21	75	7	35	16.5	14	25.2	8460-208CY	8460-308CY

# WDS 8460

## Wing Grip - Male

### MATERIAL -

Body - Thermoplastic

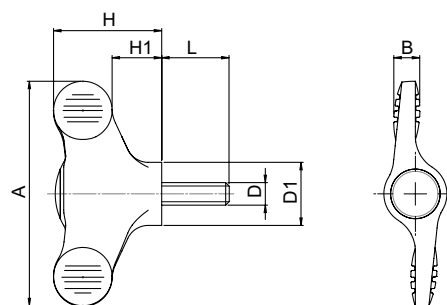
Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31

ZP

303

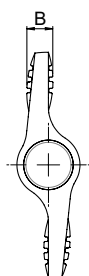
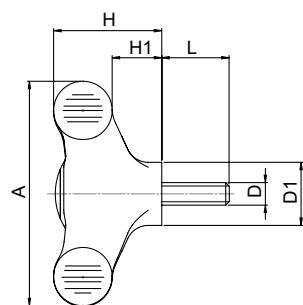
RAL  
7021



Black Grey - RAL 7021

D	D1	A	B	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	14	50	5	24	11.5	15	15	8460-402BG	8460-502BG
M5	14	50	5	24	11.5	20	16	8460-404BG	8460-504BG
M6	14	50	5	24	11.5	20	17	8460-406BG	8460-506BG
M6	14	50	5	24	11.5	30	20	8460-408BG	8460-508BG
M6	14	50	5	24	11.5	40	22	8460-410BG	8460-510BG
M8	14	50	5	24	11.5	20	22	8460-412BG	8460-512BG
M8	14	50	5	24	11.5	30	26	8460-414BG	8460-514BG
M8	14	50	5	24	11.5	40	30	8460-416BG	8460-516BG
M8	21	75	7	35	16.5	20	42	8460-418BG	8460-518BG
M8	21	75	7	35	16.5	30	46	8460-420BG	8460-520BG
M8	21	75	7	35	16.5	40	50	8460-422BG	8460-522BG
M10	21	75	7	35	16.5	20	46	8460-424BG	8460-524BG
M10	21	75	7	35	16.5	30	52	8460-426BG	8460-526BG
M10	21	75	7	35	16.5	40	58	8460-428BG	8460-528BG
M10	21	75	7	35	16.5	50	65	8460-430BG	8460-530BG





## WDS 8460

### Wing Grip - Male

#### MATERIAL -

Body - Thermoplastic

Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31

ZP

303

RAL  
7035

Pale Grey - RAL 7035

D	D1	A	B	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	14	50	5	24	11.5	15	15	8460-402PG	8460-502PG
M5	14	50	5	24	11.5	20	16	8460-404PG	8460-504PG
M6	14	50	5	24	11.5	20	17	8460-406PG	8460-506PG
M6	14	50	5	24	11.5	30	20	8460-408PG	8460-508PG
M6	14	50	5	24	11.5	40	22	8460-410PG	8460-510PG
M8	14	50	5	24	11.5	20	22	8460-412PG	8460-512PG
M8	14	50	5	24	11.5	30	26	8460-414PG	8460-514PG
M8	14	50	5	24	11.5	40	30	8460-416PG	8460-516PG
M8	21	75	7	35	16.5	20	42	8460-418PG	8460-518PG
M8	21	75	7	35	16.5	30	46	8460-420PG	8460-520PG
M8	21	75	7	35	16.5	40	50	8460-422PG	8460-522PG
M10	21	75	7	35	16.5	20	46	8460-424PG	8460-524PG
M10	21	75	7	35	16.5	30	52	8460-426PG	8460-526PG
M10	21	75	7	35	16.5	40	58	8460-428PG	8460-528PG
M10	21	75	7	35	16.5	50	65	8460-430PG	8460-530PG

**New Styles**  
**New Features**  
**New Finishes**

Check out the  
**WDS Improved Range**  
of Hinges



# WDS 8460

## Wing Grip - Male

### MATERIAL -

Body - Thermoplastic

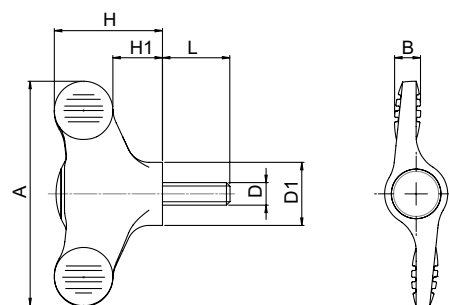
Screw - Steel - zinc plated

Screw - Stainless Steel - 303 S31

ZP

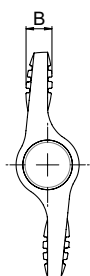
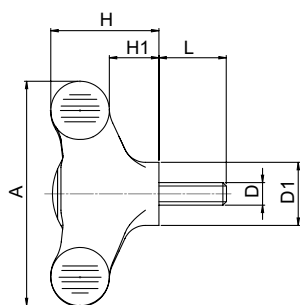
303

RAL  
3020



Traffic Red - RAL 3020

D	D1	A	B	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	14	50	5	24	11.5	15	15	8460-402TR	8460-502TR
M5	14	50	5	24	11.5	20	16	8460-404TR	8460-504TR
M6	14	50	5	24	11.5	20	17	8460-406TR	8460-506TR
M6	14	50	5	24	11.5	30	20	8460-408TR	8460-508TR
M6	14	50	5	24	11.5	40	22	8460-410TR	8460-510TR
M8	14	50	5	24	11.5	20	22	8460-412TR	8460-512TR
M8	14	50	5	24	11.5	30	26	8460-414TR	8460-514TR
M8	14	50	5	24	11.5	40	30	8460-416TR	8460-516TR
M8	21	75	7	35	16.5	20	42	8460-418TR	8460-518TR
M8	21	75	7	35	16.5	30	46	8460-420TR	8460-520TR
M8	21	75	7	35	16.5	40	50	8460-422TR	8460-522TR
M10	21	75	7	35	16.5	20	46	8460-424TR	8460-524TR
M10	21	75	7	35	16.5	30	52	8460-426TR	8460-526TR
M10	21	75	7	35	16.5	40	58	8460-428TR	8460-528TR
M10	21	75	7	35	16.5	50	65	8460-430TR	8460-530TR



## WDS 8460

### Wing Grip - Male

#### MATERIAL -


Body - Thermoplastic

Screw- Steel - zinc plated

Screw - Stainless Steel - 303 S31



Cadmium Yellow - RAL 1021

D	D1	A	B	H	H1	L	 (g)	WDS No. Steel Screw	WDS No. Stainless Steel Screw
M5	14	50	5	24	11.5	15	15	8460-402CY	8460-502CY
M5	14	50	5	24	11.5	20	16	8460-404CY	8460-504CY
M6	14	50	5	24	11.5	20	17	8460-406CY	8460-506CY
M6	14	50	5	24	11.5	30	20	8460-408CY	8460-508CY
M6	14	50	5	24	11.5	40	22	8460-410CY	8460-510CY
M8	14	50	5	24	11.5	20	22	8460-412CY	8460-512CY
M8	14	50	5	24	11.5	30	26	8460-414CY	8460-514CY
M8	14	50	5	24	11.5	40	30	8460-416CY	8460-516CY
M8	21	75	7	35	16.5	20	42	8460-418CY	8460-518CY
M8	21	75	7	35	16.5	30	46	8460-420CY	8460-520CY
M8	21	75	7	35	16.5	40	50	8460-422CY	8460-522CY
M10	21	75	7	35	16.5	20	46	8460-424CY	8460-524CY
M10	21	75	7	35	16.5	30	52	8460-426CY	8460-526CY
M10	21	75	7	35	16.5	40	58	8460-428CY	8460-528CY
M10	21	75	7	35	16.5	50	65	8460-430CY	8460-530CY

## (((Good Vibrations)))

Medium Duty Anti-Vibration Mounts - Great Choice at Great Prices



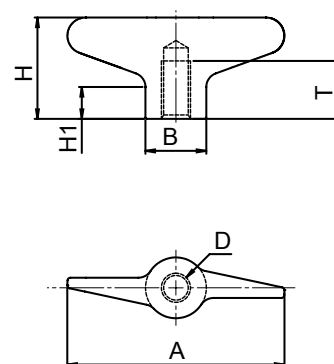
# WDS 8302

## Wing Knob - Stainless Steel


### MATERIAL -

Stainless Steel 316S11

Finish: Polished or Matt



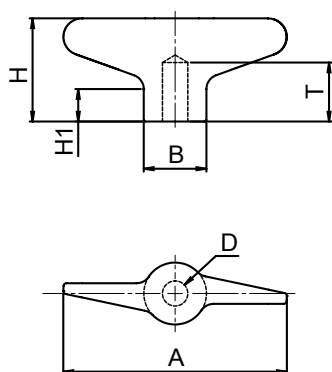
### Related Products: Studs

A	B	D	H	H1	T	 (g)	WDS No. Polished	WDS No. Matt
35	10	M4	17	3	8	16	8302-20435	8302-50435
35	10	M5	17	3	10	15	8302-20535	8302-50535
35	10	M6	17	3	12	13	8302-20635	8302-50635
50	14	M6	24	5	12	43	8302-20650	8302-50650
50	14	M8	24	5	16	39	8302-20850	8302-50850
75	21	M10	35	11	20	126	8302-21075	8302-51075
75	21	M12	35	11	24	119	8302-21275	8302-51275

# WDS STAINLESS STEEL

Check out our  
Unrivalled Range  
of 303, 304 & 316  
Stainless Steel  
Components






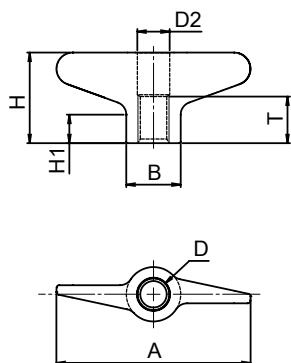
## WDS 8302

**Wing Knob -  
Stainless Steel -  
Pilot Hole**

**MATERIAL -**  
Stainless Steel 316S11  
**Finish:** Matt

### Related Products: Studs

A	B	D	H	H1	T	 (g)	WDS No.
35	10	3.3	17	3	8	16	8302-52035
50	14	5	24	5	12	43	8302-52050
75	21	8.5	35	11	20	130	8302-52075




## WDS 8302

**Wing Knob -  
Stainless Steel -  
Through Hole**

**MATERIAL -**  
Stainless Steel 316S11  
**Finish:** Matt

### Related Products: Studs

A	B	D	D2	H	H1	T	 (g)	WDS No.
35	10	M4	4.5	17	3	6	15	8302-60435
35	10	M5	5.5	17	3	8	13	8302-60535
35	10	M6	6.5	17	3	9	11	8302-60635
50	14	M6	6.5	24	5	9	39	8302-60650
50	14	M8	8.5	24	5	12	34	8302-60850
75	21	M10	10.5	35	11	15	112	8302-61075
75	21	M12	12.5	35	11	18	102	8302-61275

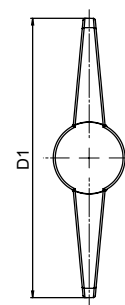
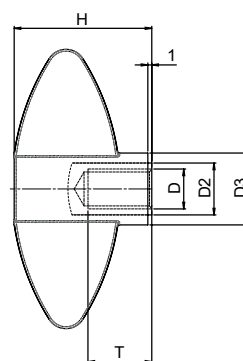
# WDS 8218

## Wing Nut with Female Threaded Bush

### MATERIAL -

Body - Nylon PA6 Anthracite Grey

Bush - Brass



### Related Products: Studs

D	D1	D2	D3	H	T	⚖️ (g)	WDS No.
M4	35	7	11	17	7	4	8218-201
M5	35	7	11	17	7	4	8218-202
M5	50	7	15.6	24	7	10	8218-203
M6	50	8	15.6	24	12	10	8218-204
M8	50	10	15.6	24	16	13	8218-205
M8	70	10	18	33.5	16	22	8218-206
M10	70	13	18	33.5	20	29	8218-207

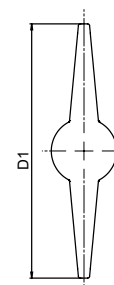
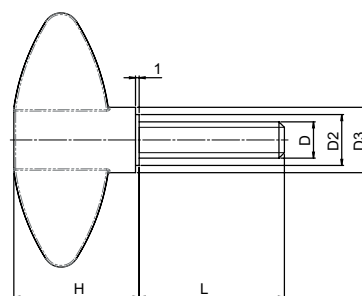
# WDS 8219

## Wing Screw with Male Threaded Stem

### MATERIAL -

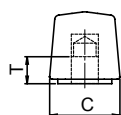
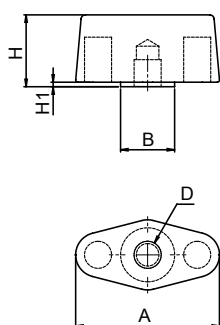
Body - Nylon PA6 Anthracite Grey

Stem - Zinc Plated Steel



D	D1	D2	D3	H	L	⚖️ (g)	WDS No.
M4	35	8	11	17	20	7	8219-2042035
M5	35	8	11	17	25	9	8219-2052535
M5	50	8	15.6	24	25	14	8219-2052550
M6	50	8	15.6	24	32	16	8219-2063250
M8	50	12	15.6	24	40	27	8219-2084050
M8	70	12	18	33.5	40	35	8219-2084070
M10	70	14	18	33.5	40	51	8219-2104070





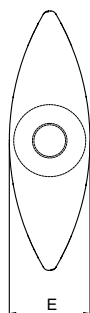
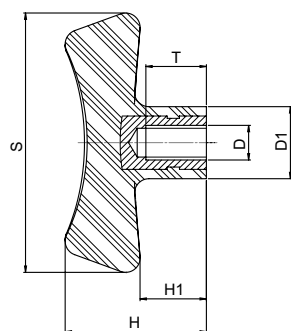
## WDS 8103

### Plastic Wing Knob

**MATERIAL -**  
Body: PA polyamide  
Insert: Brass

#### Related Products: Studs

A	B	C	D	H	H1	T	(g)	WDS No.
32	12	16	M5	16	1	6	7	8103-20532
32	12	16	M6	16	1	6	8	8103-20632
48	12	16	M6	16	1	10	10	8103-20648
48	12	16	M8	16	1	10	11	8103-20848



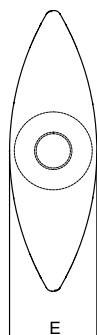
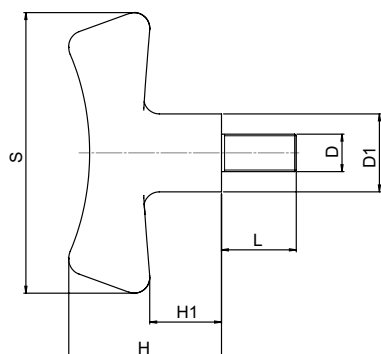
## WDS 8146

### T Grip Hand Knob (Bakelite)

**MATERIAL -**  
Bakelite, black  
Insert - Steel, zinc plated

#### Related Products: Studs

D	S	D1	E	H	H1	T	(g)	WDS No.
M8	70	19	21	38	18	14	45	8146-211
M10	70	19	21	38	18	14	45	8146-212
M8	80	21	24	44	21	14	60	8146-213
M10	80	21	24	44	21	22	60	8146-214
M12	90	25	27	49	23	21	90	8146-215



## WDS 8146

### T Grip Hand Screw (Bakelite)

**MATERIAL -**  
Bakelite, black  
Screw - Steel, zinc plated

D	L	S	D1	E	H	H1	(g)	WDS No.
M8	24	70	20	21	37	18	45	8146-221
M10	30	80	22	24	42	21	75	8146-222
M10	30	90	25	27	48	23	90	8146-224
M12	24	90	25	27	48	23	95	8146-225

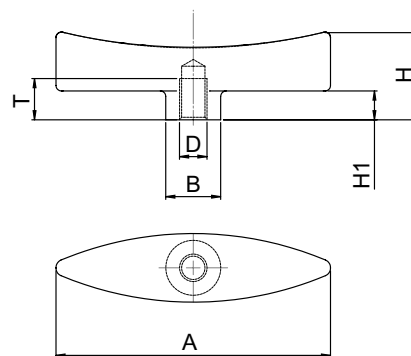


# WDS 106

## T Grip - Cast Iron

MATERIAL -  
Cast iron

CI



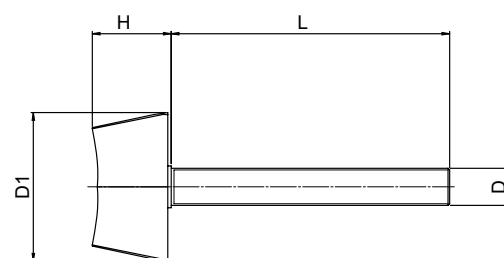
### Related Products: Studs

D	A	B	H	H1	T	 (g)	WDS No.
M6	100	20	32	10.5	11	34	106-201
M8	100	20	32	10.5	13	34	106-202
M10	100	20	32	10.5	15	34	106-203

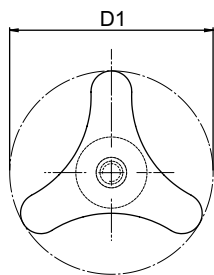
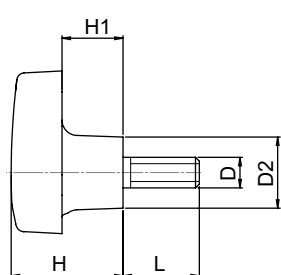
# WDS 8200

## T-Screw

MATERIAL -  
Thermoplastic, black  
Screw - Steel, zinc plated



D	D1	L	H	 (g)	WDS No.
M3	18	10	10	9	8200-205
M3	18	20	10	11	8200-207
M4	18	10	10	10	8200-209
M4	18	15	10	11	8200-210
M5	28	20	14	13	8200-215
M6	28	10	14	13	8200-219
M6	28	15	14	14	8200-220
M6	28	20	14	15	8200-221
M6	28	25	14	16	8200-222
M6	28	30	14	17	8200-223
M6	28	40	14	19	8200-224
M6	28	50	14	21	8200-225
M8	32	15	17	15	8200-226
M8	32	20	17	16	8200-227
M8	32	30	17	18	8200-228
M8	32	40	17	20	8200-229
M8	32	60	17	24	8200-231

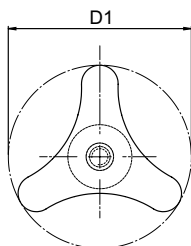
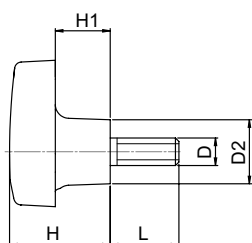


## WDS 8147

### Tri-Screw - High Version (Bakelite)

**MATERIAL -**  
Bakelite, black  
Screw - Steel, zinc plated

D	D1	D2	H	H1	L	⚖️ (g)	WDS No.
M6	40	13.5	24	13.5	15	20	8147-421
M8	40	13.5	24	13.5	20	35	8147-423
M8	50	17.4	28	14	30	50	8147-429
M10	50	17.4	28	14	25	60	8147-431
M10	62	21.8	34	17	25	65	8147-433

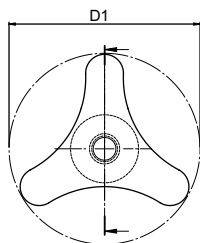
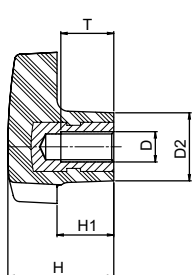


## WDS 8305

### Tri-Screw - High Version (Bakelite)

**MATERIAL -**  
Bakelite, black  
Screw - Stainless Steel 303 S31

D	D1	D2	H	H1	L	⚖️ (g)	WDS No.
M6	40	13.5	22	12	20	25	8305-422
M8	40	13.5	22	12	20	35	8305-423
M8	50	17.4	28	15	20	45	8305-428
M10	50	17.4	28	15	30	65	8305-432
M10	62	21.8	35	18	30	70	8305-434



## WDS 8147

### Tri-Knob - High Version (Bakelite)

**MATERIAL -**  
Bakelite, black  
Insert - Steel, zinc plated

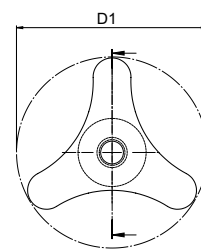
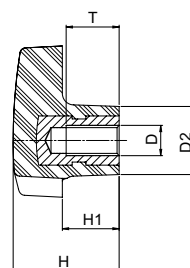
#### Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M6	40	14	22	12	12	35	8147-412
M8	50	18	28	15	15	50	8147-414
M10	62	22	35	18	18	70	8147-416

# WDS 8305

## Tri-Knob - High Version (Bakelite)

**MATERIAL -**  
Bakelite, black  
Insert - Stainless Steel 303 S31



### Related Products: Studs

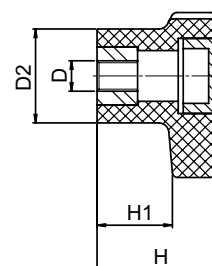
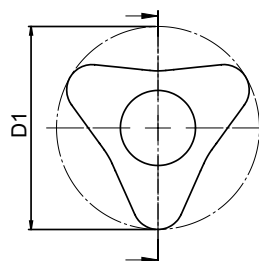
D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M6	40	14	22	12	12	35	8305-412
M8	50	18	28	15	15	50	8305-414
M10	62	22	35	18	18	70	8305-416

# WDS 8215

## Tri-Star Hand Knob

**MATERIAL -**  
Thermoplastic, black  
Insert: Steel, zinc plated

Top cap is detachable, for screw access



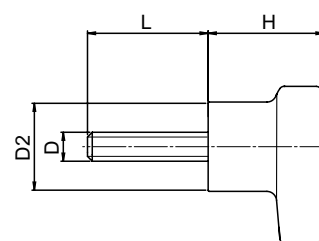
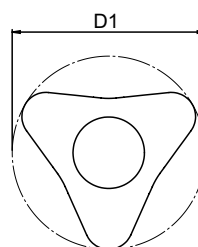
### Related Products: Studs

D	D1	D2	H	H1	⚖️ (g)	WDS No.
M6	40	18.5	24	14	12	8215-201

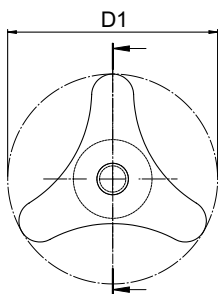
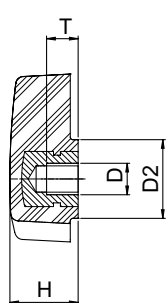
# WDS 8215

## Tri-Star Hand Screw

**MATERIAL -**  
Thermoplastic, black  
Insert: Steel, zinc plated



D	D1	D2	H	L	⚖️ (g)	WDS No.
M8	40	18.5	24	20	12	8215-216
M8	40	18.5	24	40	22	8215-219
M8	50	18.5	32	30	22	8215-223




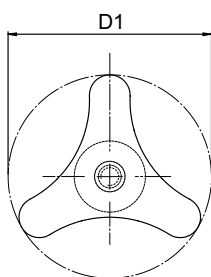
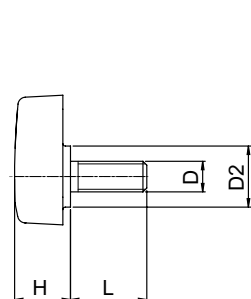
## WDS 8147

### Tri-Knob (Bakelite)

**MATERIAL -**  
Bakelite, black  
Insert - Brass

#### Related Products: Studs


D	D1	D2	H	T	 (g)	WDS No.
M4	32	12	10.5	6	5	8147-211
M6	40	15	13.1	6	11	8147-212
M6	50	19	16.3	6	17	8147-213
M8	62	24	20.6	8	34	8147-214



## WDS 8147

### Tri-Screw (Bakelite)

**MATERIAL -**  
Bakelite, black  
Screw - Steel, zinc plated

D	D1	D2	H	L	 (g)	WDS No.
M6	32	12	10.5	15	9	8147-221
M6	40	15	13.1	15	13	8147-222
M8	50	19	16.3	20	25	8147-223
M10	62	24	21	25	47	8147-224

Take vibration control  
to the **next level**

With these new  
**Anti-Vibration Mount**  
additions

## Section 21

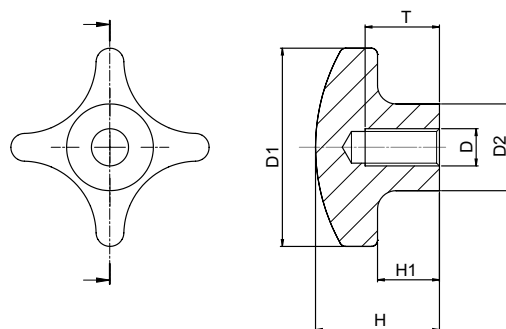


# WDS 8141

## Hand Knob - 4 Spoked

**MATERIAL -**  
Body - Bakelite Black  
Insert - Steel, Galvanised

Note: 8141-2005 has a Brass Insert



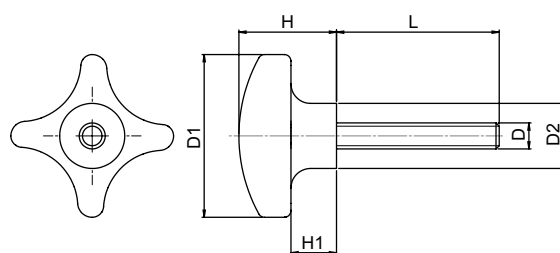
### Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M4	25	10	15	7	6	6	8141-2004
M5	25	10	15	7	7.5	6	8141-2005
M6	32	14	20	10	12	10	8141-201
M8	40	18	25	13	16	20	8141-202
M10	50	22	32	20	20	35	8141-203
M12	63	26	40	25	24	65	8141-204
M16	80	35	50	30	32	140	8141-205

# WDS 8141

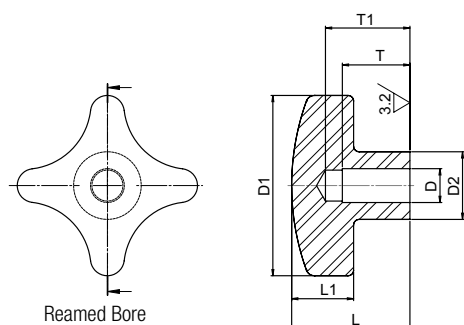
## Star Hand Screw

**MATERIAL -**  
Bakelite, black  
Screw - Steel, zinc plated



D	L	D1	D2	H	H1	⚖️ (g)	WDS No.
M4	25	25	10	15	7	9.0	8141-215
M5	10	25	10	15	7	7.5	8141-216
M6	15	32	14	20	10	15	8141-221
M6	20	32	14	20	10	15	8141-222
M6	25	32	14	20	10	15	8141-223
M6	30	32	14	20	10	20	8141-224
M6	40	32	14	20	10	20	8141-225
M8	20	40	18	25	13	35	8141-226
M8	25	40	18	25	13	35	8141-227
M8	30	40	18	25	13	40	8141-228
M8	35	40	18	25	13	40	8141-229
M8	40	40	18	25	13	45	8141-230

D	L	D1	D2	H	H1	⚖️ (g)	WDS No.
M8	50	40	18	25	13	45	8141-231
M10	20	50	22	32	20	60	8141-232
M10	25	50	22	32	20	60	8141-233
M10	30	50	22	32	20	65	8141-234
M10	40	50	22	32	20	70	8141-236
M10	50	50	22	32	20	75	8141-237
M12	20	63	26	40	25	100	8141-238
M12	30	63	26	40	25	110	8141-239
M12	40	63	26	40	25	120	8141-240
M12	50	63	26	40	25	130	8141-241
M12	60	63	26	40	25	140	8141-242



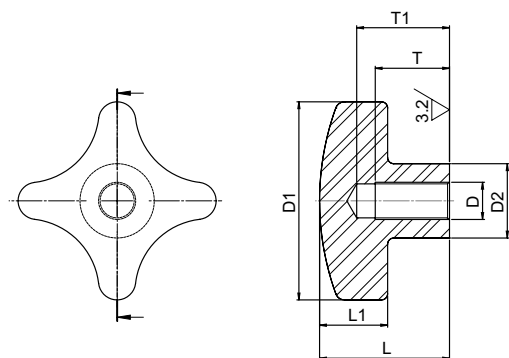
## WDS 8205

### Hand Knob Reamed

**MATERIAL -**  
BS970 Gr 304S11  
Stainless Steel casting  
Polished

304

D <sup>H7</sup>	D1	D2	L	L1	T	T1	(g)	WDS No.
6	32	12	21	11	12	15	37	8205-201
8	40	14	26	13	15	18	58	8205-202
10	50	18	34	17	18	21	109	8205-203
12	63	20	42	21	22	25	197	8205-204



## WDS 8205

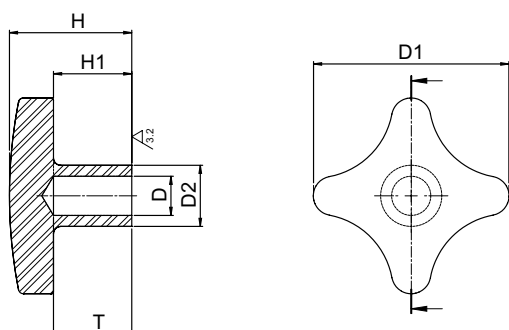
### Hand Knob Threaded

**MATERIAL -**  
BS970 Gr 316S  
Stainless Steel casting  
Polished

316

#### Related Products: Studs

D	D1	D2	L	L1	T	T1	(g)	WDS No. Polished	WDS No. Matt
M6	32	12	21	11	12	15	37	8205-411	8205-411M
M8	40	14	26	13	15	18	58	8205-412	8205-412M
M10	50	18	34	17	18	21	109	8205-413	8205-413M
M12	63	20	43	15	22	25	197	8205-414	8205-414M



## WDS 8171

### Hand Knob Reamed

**MATERIAL -**  
Aluminium,  
polished or anodised

Al

D <sup>H7</sup>	D1	D2	H	H1	T	(g)	WDS No. Polished	WDS No. Anodised
8	40	14	25	14	18	40	8171-201	8171-401
10	50	18	32	20	21	60	8171-202	8171-402
12	63	20	40	25	25	75	8171-203	8171-403
16	80	25	50	30	32	135	8171-204	8171-404

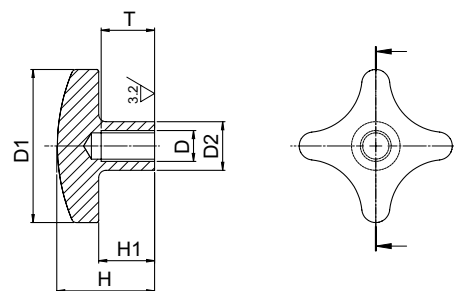


# WDS 8184

## 4 Spoke Hand Knob

MATERIAL -  
Cast Iron

CI



### Related Products: Studs

Metric

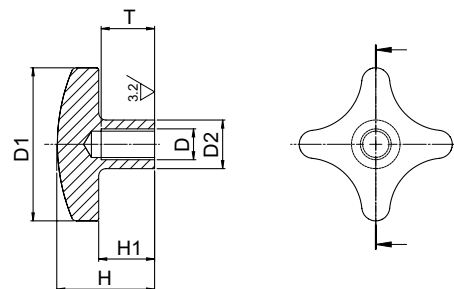
D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M6	32	12	20	9	12	32	8184-201
M8	40	14	25	13	15	55	8184-202
M10	50	18	32	18	18	105	8184-203
M12	63	20	40	23	22	195	8184-204
M16	80	25	50	28	28	380	8184-205
M20	100	32	63	36	36	720	8184-206

# WDS 100

## 4 Spoke Hand Knob

MATERIAL -  
Cast Iron

CI



### Related Products: Studs

Inch

D	D1	D2	H	H1	T	⚖️ (g)	WDS No. Blank	WDS No. BSW	WDS No. UNC
5/16	40	14	25	13	15	60	100-31	-	100-34
3/8	50	18	32	18	18	80	100-51	100-53	100-54
1/2	63	20	40	23	22	175	100-71	100-73	100-74
-	80	25	50	28	28	345	100-96	-	-

Brand new 316 Stainless Steel



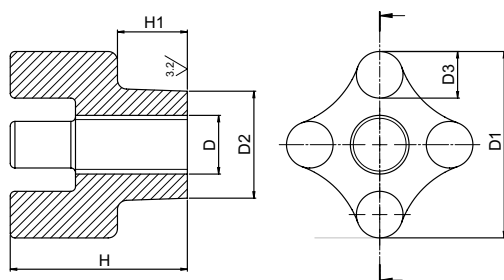
# THUMB KNOBS



in two attractive finishes

Section 11





# WDS 103

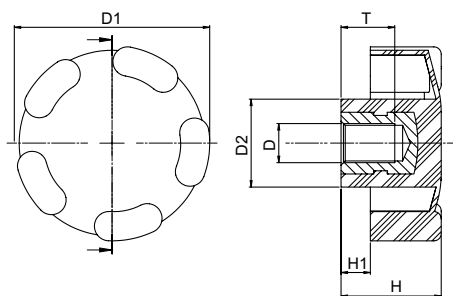
## Bar Knob

**MATERIAL** -  
Spheroidal Graphite Cast Iron  
(S. G. Iron)

CI

### Related Products: Studs

D	D1	D2	D3	H	H1	(g)	Type	WDS No.
-	50	32	12	53	22	361	Blank	103-201
-	63	38	16	60	24	563	Blank	103-202
-	90	53	16	60	24	990	Blank	103-203
M10	50	32	12	53	22	361	Metric	103-211
M12	50	32	12	53	22	354	Metric	103-212
M14	50	32	12	53	22	347	Metric	103-213
M16	50	32	12	53	22	340	Metric	103-214
M20	63	38	16	60	24	563	Metric	103-215
M24	90	53	16	60	24	990	Metric	103-216



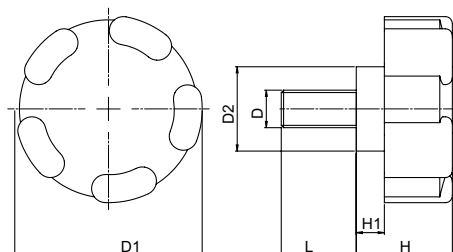
# WDS 8167

## Five Lobe Hand Knob

**MATERIAL** -  
Glass fibre reinforced plastic, black  
Insert-Steel, zinc plated

### Related Products: Studs

D	D1	D2	H	H1	T	(g)	WDS No.
M6	32	15	17	5	9	12	8167-201
M8	40	18	20.5	6	11	25	8167-202
M10	50	20	25	7	14	35	8167-203



# WDS 8167

## Five Lobe Hand Screw

**MATERIAL** -  
Glass fibre reinforced plastic, black  
Screw-Steel, zinc plated

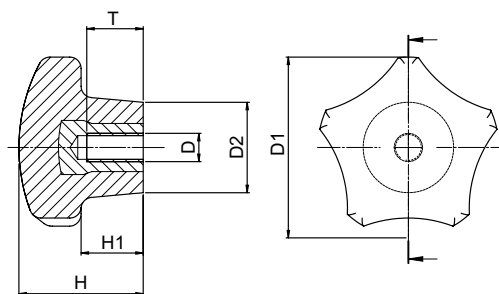
D	D1	D2	H	H1	L	(g)	WDS No.
M6	32	15	17	5	15	17	8167-251
M8	40	18	20.5	6	16	28	8167-252
M10	50	20	25	7	20	55	8167-253

# WDS 8148


## Five Lobe Knob (Bakelite)

**MATERIAL -**  
Bakelite, black  
**Insert -** Steel, zinc plated

Note: 8148-211, 8148-212 have a Brass insert



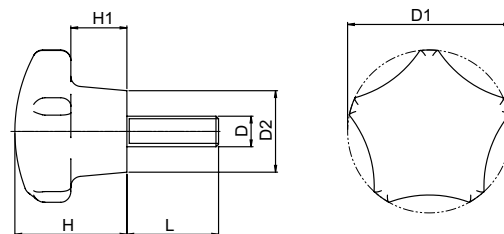
### Related Products: Studs


D	D1	D2	H	H1	T	 (g)	WDS No.
M5	32	16	22.4	11.2	10	14	8148-211
M6	32	16	22.4	11.2	9	15	8148-212
M6	40	20	28	14	12	30	8148-213
M8	40	20	28	14	14	34	8148-214
M10	40	20	28	14	14	36	8148-215
M8	50	25	35	17.5	14	56	8148-216
M10	50	25	35	17.5	14	60	8148-217

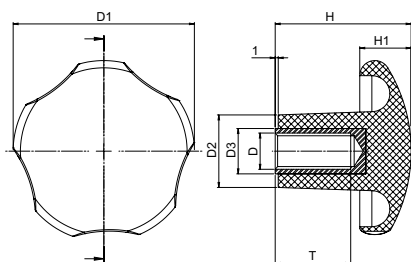
# WDS 8148

## Five Lobe Hand Screw (Bakelite)

**MATERIAL -**  
Bakelite, black  
**Screw -** Steel, zinc plated



D	D1	D2	H	H1	L	 (g)	WDS No.
M6	32	16	22.4	11.2	12	15	8148-22112
M6	32	16	22.4	11.2	18	20	8148-22118
M8	32	16	22.4	11.2	16	22	8148-22216
M8	32	16	22.4	11.2	24	30	8148-22224
M6	40	20	28	14	18	35	8148-22318
M8	40	20	28	14	16	40	8148-22416
M8	40	20	28	14	24	45	8148-22424
M8	50	25	35	17.5	16	56	8148-22516
M8	50	25	35	17.5	24	63	8148-22524
M10	50	25	35	17.5	20	76	8148-22620
M10	50	25	35	17.5	30	76	8148-22630



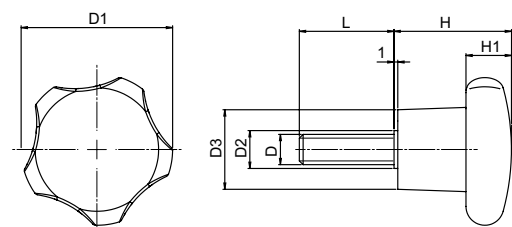
## WDS 8125

### Star Knob with Brass Insert

**MATERIAL -**  
Grip - PF31 (Bakelite)  
Insert - Brass

#### Related Products: Studs

D	D1	D2	D3	H	H1	T	⚖️ (g)	WDS No.
M6	40	21	8	30	12	12	24	8125-201
M8	50	21	10	36	14	16	35	8125-202
M10	60	24	13	44	17	20	61	8125-203
M12	60	24	15	44	17	25	65	8125-204



## WDS 8126

### Star Hand Screw with Male Thread

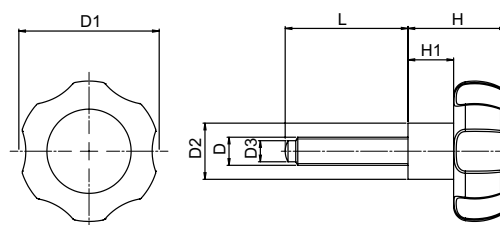
**MATERIAL -**  
Body - PF31 (Bakelite)  
Thread - Steel, Zinc Plated

D	D1	D2	D3	H	H1	L	⚖️ (g)	WDS No.
M6	40	10	21	30	12	20	43	8126-20620
M8	40	10	21	30	12	25	38	8126-20825
M8	50	10	21	36	14	35	52	8126-20835
M10	60	12	24	44	17	40	85	8126-21040
M12	60	14	24	44	17	40	106	8126-21240

# WDS 8223

## Hand Screw - Male Thread

**MATERIAL -**  
Grip - Nylon PA6  
Stem - Steel, Zinc Plated

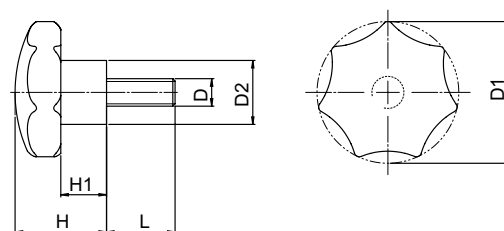


D	D1	D2	D3	H	H1	L	⚖️ (g)	WDS No.
M6	40	16	4	28	13	16	23	8223-20616
M8	40	16	6	28	13	25	28	8223-20825
M8	40	16	6	28	13	35	31	8223-20835

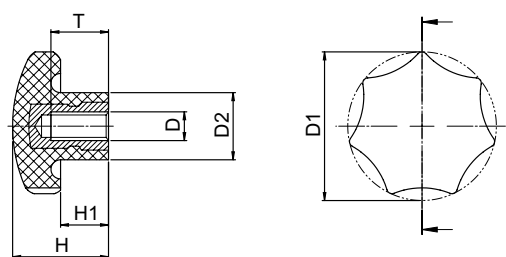
# WDS 8142

## Scallop Hand Screw (Bakelite)

**MATERIAL -**  
Bakelite, black  
Screw - Steel, zinc plated



D	L	D1	D2	H	H1	⚖️ (g)	WDS No.
M6	15	32	14	20	10	15	8142-221
M6	20	32	14	20	10	15	8142-222
M6	25	32	14	20	10	15	8142-223
M6	30	32	14	20	10	15	8142-224
M6	40	32	14	20	10	20	8142-225
M8	20	40	18	25	13	30	8142-226
M8	25	40	18	25	13	30	8142-227
M8	30	40	18	25	13	30	8142-228
M8	35	40	18	25	13	35	8142-229
M8	40	40	18	25	13	35	8142-230
M8	50	40	18	25	13	40	8142-231
M10	20	50	22	32	17	50	8142-232
M10	25	50	22	32	17	55	8142-233
M10	30	50	22	32	17	55	8142-234
M10	35	50	22	32	17	60	8142-235
M10	40	50	22	32	17	60	8142-236
M10	50	50	22	32	17	65	8142-237
M12	20	63	26	40	21	95	8142-238
M12	40	63	26	40	21	105	8142-240
M12	50	63	26	40	21	115	8142-241
M12	60	63	26	40	21	120	8142-242



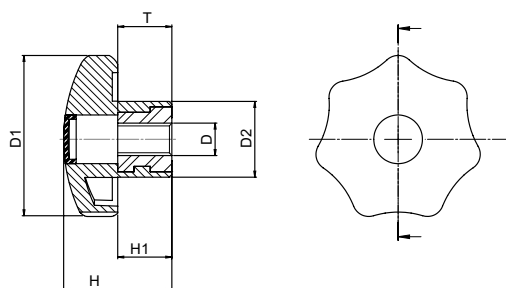
## WDS 8142

### Scallop Hand Knob (Bakelite)

**MATERIAL -**  
Bakelite, black  
Insert - Steel, galvanised

#### Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M6	32	14	20	10	12	15	8142-201
M8	40	18	25	13	16	25	8142-202
M10	50	22	32	17	20	45	8142-203
M12	63	26	40	21	24	80	8142-204
M16	80	35	50	25	32	160	8142-205



## WDS 8161

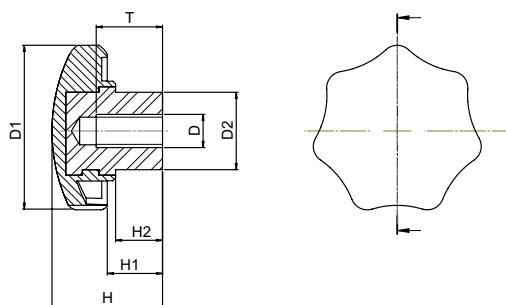
### Scallop Knob

**MATERIAL -**  
Thermoplastic, black  
Insert- Steel, zinc plated

Note: Top cap is removable to create through knob

#### Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M6	32	14	20	10	10	11	8161-211
M8	40	18	25	13	14	25	8161-212
M10	50	22	32	17	14	40	8161-213
M12	63	26	40	21	18	88	8161-214



## WDS 8161

### Scallop Hand Knob

**MATERIAL -**  
Thermoplastic, black  
Insert- Steel, zinc plated

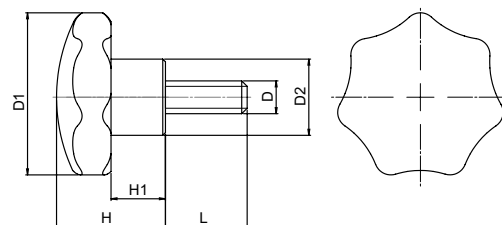
#### Related Products: Studs

D	D1	D2	H	H1	H2	T	⚖️ (g)	WDS No.
M5	25	10	16	8	6	8.5	22	8161-2155
M6	32	12	20	10	8.5	12	15	8161-215
M8	40	14	25	13	10	14	26	8161-216
M10	50	18	32	17	12	18	52	8161-217
M12	63	20	40	21	15	22	85	8161-218

## WDS 8161

### Hand Screw

**MATERIAL -**  
Thermoplastic, black  
Screw- Steel, zinc plated



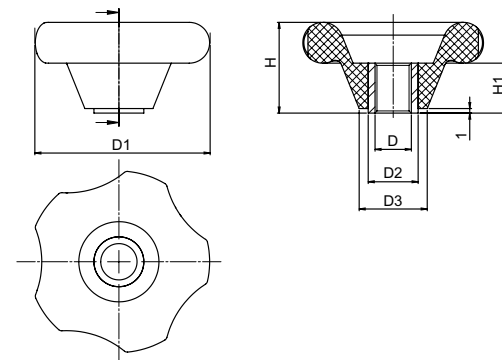
D	L	D1	D2	H	H1	(g)	WDS No.
M6	15	32	14	20	10	10	8161-231
M6	20	32	14	20	10	10	8161-232
M6	30	32	14	20	10	15	8161-233
M8	20	40	18	25	13	25	8161-234
M8	25	40	18	25	13	25	8161-235
M8	30	40	18	25	13	28	8161-236

D	L	D1	D2	H	H1	(g)	WDS No.
M8	40	40	18	25	13	30	8161-237
M10	30	50	22	32	17	40	8161-238
M10	40	50	22	32	17	42	8161-239
M10	50	50	22	32	17	45	8161-240
M12	30	63	26	40	21	30	8161-241
M12	60	63	26	40	21	60	8161-242

## WDS 8114

### Star Knob with Threaded Bush

**MATERIAL -**  
Body - Impact resistant plastic  
Bush - Brass



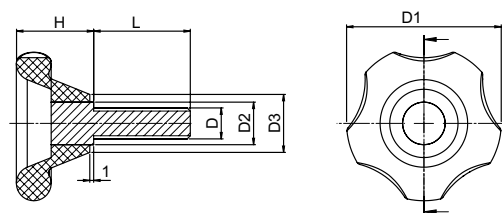
#### Related Products: Studs

D	D1	D2	D3	H	H1	(g)	WDS No.
M4	40	11	15	20	11	16	8114-201
M5	40	11	15	20	11	15	8114-202
M6	40	11	15	20	11	14	8114-203
M8	40	11	15	20	11	13	8114-204

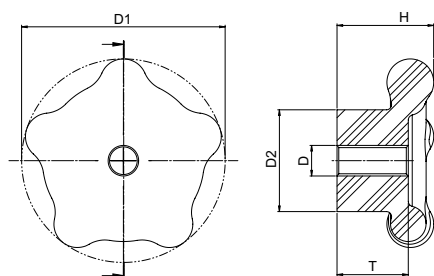
## WDS 8115

### Star Knob with Male Threaded Stem

**MATERIAL -**  
Body - Impact resistant plastic  
Stem - Steel, Zinc Plated



D	D1	D2	D3	H	L	(g)	WDS No.
M5	40	11	15	20	18	18	8115-20518
M6	40	11	15	20	20	19	8115-20620
M8	40	11	15	20	25	24	8115-20825



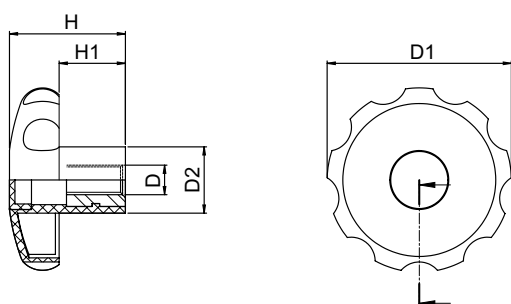
## WDS 8199

### Five Lobe Knob - Threaded Through Hole

**MATERIAL -**  
Bakelite, black with moulded thread

#### Related Products: Studs

D	D1	D2	H	T	⚖️ (g)	WDS No.
M6	40	20	19	14	30	8199-201
M8	50	24	24	18	40	8199-202
M10	60	28	28	22	50	8199-203



## WDS 8210

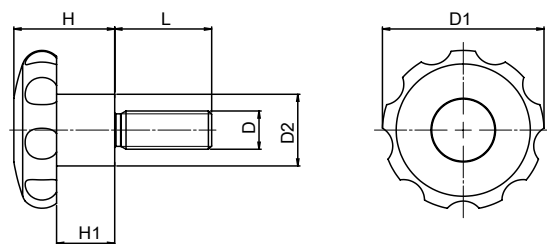
### Scallop Hand Knob

**MATERIAL -**  
Thermoplastic black  
Insert- Steel, zinc plated

Note: Top cap is removable to create through knob

#### Related Products: Studs

D	D1	D2	H	H1	⚖️ (g)	WDS No.
M6	40	18	24	13	16	8210-201
M8	40	18	24	13	16	8210-202
M8	50	22.5	32	18	20	8210-203
M10	50	22.5	32	18	22	8210-204



## WDS 8210

### Scallop Hand Screw

**MATERIAL -**  
Thermoplastic black  
Screw - Steel, zinc plated

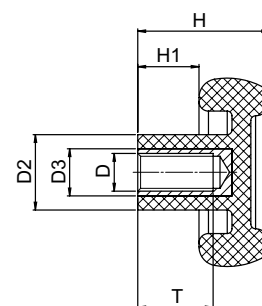
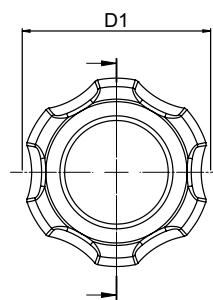
D	D1	D2	H	H1	L	⚖️ (g)	WDS No.
M6	40	18	24	13	20	20	8210-206
M6	40	18	24	13	30	24	8210-208
M6	40	18	24	13	50	32	8210-210
M8	40	18	24	13	20	24	8210-216
M8	40	18	24	13	30	28	8210-218
M8	40	18	24	13	40	32	8210-219
M8	50	22.5	32	18	30	31	8210-223
M8	50	22.5	32	18	50	37	8210-225
M12	63	22.5	40	28	30	40	8210-242



# WDS 8224

## Hand Knob - Female

**MATERIAL -**  
Grip - Nylon PA6  
Insert - Brass



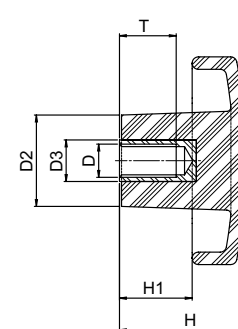
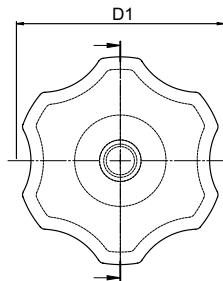
### Related Products: Studs

D	D1	D2	D3	H	H1	T	⚖️ (g)	WDS No.
M6	40	16	8	28	13	12	16	8224-201
M8	40	16	10	28	13	16	19	8224-202

# WDS 8214

## Hand Knob - Six Pronged Female Thread

**MATERIAL -**  
Grip - Bakelite PF31  
Insert - Brass



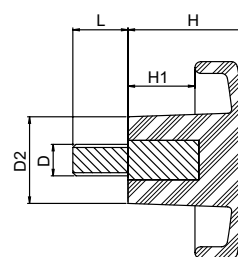
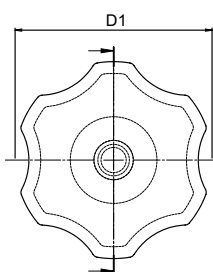
### Related Products: Studs

D	D1	D2	D3	H	H1	T	⚖️ (g)	WDS No.
M8	50	22	10	30	17	16	17	8214-202
M10	60	26	13	35	18	20	18	8214-203
M12	75	32	15	40	24	25	24	8214-204

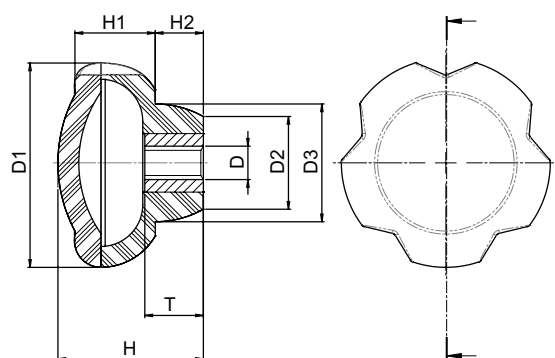
# WDS 8214

## Hand Screw - Male Thread

**MATERIAL -**  
Grip - Bakelite PF31  
Thread - Steel, Zinc Plated



D	D1	D2	H	H1	L	⚖️ (g)	WDS No.
M8	50	22	30	17	14	45	8214-20850
M10	60	26	33	18	18	70	8214-21060
M12	75	32	40	24	25	130	8214-21275



## WDS 8475

### Clamp Grip - Female

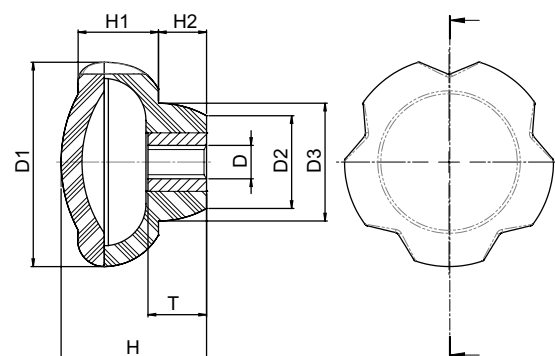
**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



#### Related Products: Studs

Black Grey - RAL 7021

D	D1	D2	D3	H	H1	H2	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M8	50	22.2	28.2	34.8	17.8	11.5	14	30	8475-202BG	8475-302BG
M10	50	22.2	28.2	34.8	17.8	11.5	14	20	8475-204BG	8475-304BG
M12	50	22.2	28.2	34.8	17.8	11.5	18	10	8475-206BG	8475-306BG
M10	63	28	35.5	44	22.5	14.5	14	70	8475-208BG	8475-308BG
M12	63	28	35.5	44	22.5	14.5	18	50	8475-210BG	8475-310BG
M16	63	28	35.5	44	22.5	14.5	18	40	8475-212BG	-



## WDS 8475

### Clamp Grip - Female

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



#### Related Products: Studs

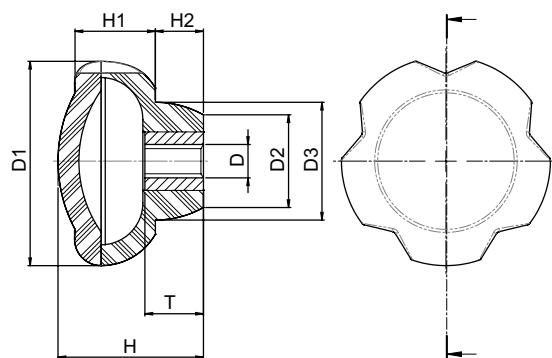
Pale Grey - RAL 7035

D	D1	D2	D3	H	H1	H2	T	⚖️ (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M8	50	22.2	28.2	34.8	17.8	11.5	14	30	8475-202PG	8475-302PG
M10	50	22.2	28.2	34.8	17.8	11.5	14	20	8475-204PG	8475-304PG
M12	50	22.2	28.2	34.8	17.8	11.5	18	10	8475-206PG	8475-306PG
M10	63	28	35.5	44	22.5	14.5	14	70	8475-208PG	8475-308PG
M12	63	28	35.5	44	22.5	14.5	18	50	8475-210PG	8475-310PG
M16	63	28	35.5	44	22.5	14.5	18	40	8475-212PG	-

# WDS 8475


## Clamp Grip - Female

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

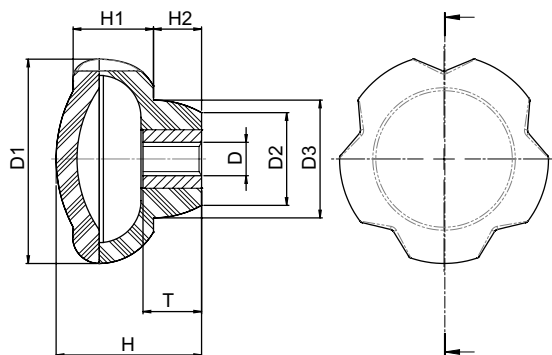
Traffic Red - RAL 3020

D	D1	D2	D3	H	H1	H2	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M8	50	22.2	28.2	34.8	17.8	11.5	14	30	8475-202TR	8475-302TR
M10	50	22.2	28.2	34.8	17.8	11.5	14	20	8475-204TR	8475-304TR
M12	50	22.2	28.2	34.8	17.8	11.5	18	10	8475-206TR	8475-306TR
M10	63	28	35.5	44	22.5	14.5	14	70	8475-208TR	8475-308TR
M12	63	28	35.5	44	22.5	14.5	18	50	8475-210TR	8475-310TR
M16	63	28	35.5	44	22.5	14.5	18	40	8475-212TR	-

# WDS 8475


## Clamp Grip - Female

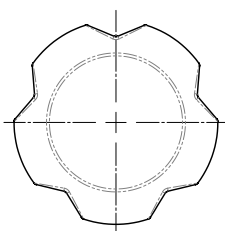
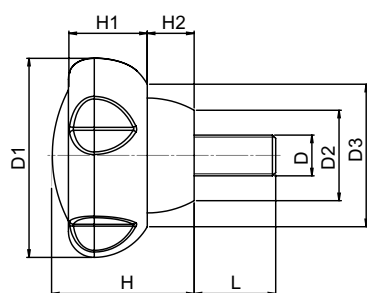
**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



### Related Products: Studs

Cadmium Yellow - RAL 1021

D	D1	D2	D3	H	H1	H2	T	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M8	50	22.2	28.2	34.8	17.8	11.5	14	30	8475-202CY	8475-302CY
M10	50	22.2	28.2	34.8	17.8	11.5	14	20	8475-204CY	8475-304CY
M12	50	22.2	28.2	34.8	17.8	11.5	18	10	8475-206CY	8475-306CY
M10	63	28	35.5	44	22.5	14.5	14	70	8475-208CY	8475-308CY
M12	63	28	35.5	44	22.5	14.5	18	50	8475-210CY	8475-310CY
M16	63	28	35.5	44	22.5	14.5	18	40	8475-212CY	-




## WDS 8475

### Clamp Grip - Male

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31



Black Grey - RAL 7021

D	D1	D2	D3	H	H1	H2	L	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M10	50	22.2	28.2	34.8	17.8	11.5	20	41	8475-402BG	8475-502BG
M10	50	22.2	28.2	34.8	17.8	11.5	30	47	8475-404BG	8475-504BG
M10	50	22.2	28.2	34.8	17.8	11.5	40	53	8475-406BG	8475-506BG
M10	50	22.2	28.2	34.8	17.8	11.5	50	59	8475-408BG	8475-508BG
M10	50	22.2	28.2	34.8	17.8	11.5	60	66	8475-410BG	8475-510BG
M12	50	22.2	28.2	34.8	17.8	11.5	20	44	8475-412BG	-
M12	50	22.2	28.2	34.8	17.8	11.5	30	53	8475-414BG	-
M12	50	22.2	28.2	34.8	17.8	11.5	40	61	8475-416BG	-
M12	50	22.2	28.2	34.8	17.8	11.5	50	70	8475-418BG	-
M12	50	22.2	28.2	34.8	17.8	11.5	60	79	8475-420BG	-
M10	63	28	35.5	44	22.5	14.5	20	91	8475-422BG	8475-522BG
M10	63	28	35.5	44	22.5	14.5	30	97	8475-424BG	8475-524BG
M10	63	28	35.5	44	22.5	14.5	40	103	8475-426BG	8475-526BG
M10	63	28	35.5	44	22.5	14.5	50	109	8475-428BG	8475-528BG
M10	63	28	35.5	44	22.5	14.5	60	116	8475-430BG	8475-530BG
M12	63	28	35.5	44	22.5	14.5	20	84	8475-432BG	-
M12	63	28	35.5	44	22.5	14.5	30	93	8475-434BG	-
M12	63	28	35.5	44	22.5	14.5	40	101	8475-436BG	-
M12	63	28	35.5	44	22.5	14.5	50	110	8475-438BG	-
M12	63	28	35.5	44	22.5	14.5	60	119	8475-440BG	-

# Don't *Fly* off the Handle!

We have one to suit  
every purpose.

## Section 16

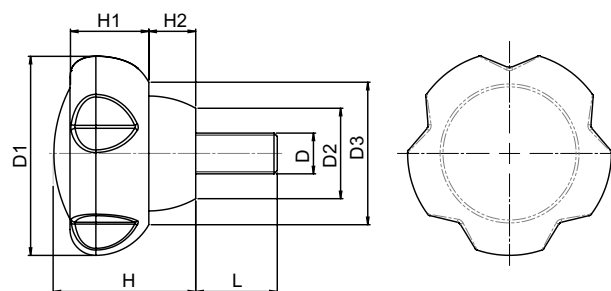


# WDS 8475


## Clamp Grip - Male

**MATERIAL -**  
 Body - Thermoplastic  
 Insert - Steel - zinc plated  
 Insert - Stainless Steel - 303 S31

**ZP** **303** **RAL 7035**



Pale Grey - RAL 7035

D	D1	D2	D3	H	H1	H2	L	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M10	50	22.2	28.2	34.8	17.8	11.5	20	41	8475-402PG	8475-502PG
M10	50	22.2	28.2	34.8	17.8	11.5	30	47	8475-404PG	8475-504PG
M10	50	22.2	28.2	34.8	17.8	11.5	40	53	8475-406PG	8475-506PG
M10	50	22.2	28.2	34.8	17.8	11.5	50	59	8475-408PG	8475-508PG
M10	50	22.2	28.2	34.8	17.8	11.5	60	66	8475-410PG	8475-510PG
M12	50	22.2	28.2	34.8	17.8	11.5	20	44	8475-412PG	-
M12	50	22.2	28.2	34.8	17.8	11.5	30	53	8475-414PG	-
M12	50	22.2	28.2	34.8	17.8	11.5	40	61	8475-416PG	-
M12	50	22.2	28.2	34.8	17.8	11.5	50	70	8475-418PG	-
M12	50	22.2	28.2	34.8	17.8	11.5	60	79	8475-420PG	-
M10	63	28	35.5	44	22.5	14.5	20	91	8475-422PG	8475-522PG
M10	63	28	35.5	44	22.5	14.5	30	97	8475-424PG	8475-524PG
M10	63	28	35.5	44	22.5	14.5	40	103	8475-426PG	8475-526PG
M10	63	28	35.5	44	22.5	14.5	50	109	8475-428PG	8475-528PG
M10	63	28	35.5	44	22.5	14.5	60	116	8475-430PG	8475-530PG
M12	63	28	35.5	44	22.5	14.5	20	84	8475-432PG	-
M12	63	28	35.5	44	22.5	14.5	30	93	8475-434PG	-
M12	63	28	35.5	44	22.5	14.5	40	101	8475-436PG	-
M12	63	28	35.5	44	22.5	14.5	50	110	8475-438PG	-
M12	63	28	35.5	44	22.5	14.5	60	119	8475-440PG	-

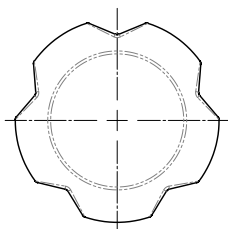
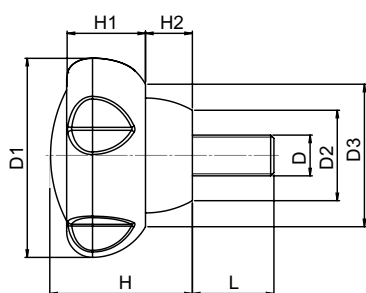
## Try out our new Hinge Specifier

Let us help you choose  
the perfect hinge.

Scan Here








# WDS 8475

## Clamp Grip - Male

**MATERIAL -**  
Body - Thermoplastic  
Insert - Steel - zinc plated  
Insert - Stainless Steel - 303 S31



Traffic Red - RAL 3020

D	D1	D2	D3	H	H1	H2	L	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M10	50	22.2	28.2	34.8	17.8	11.5	20	41	8475-402TR	8475-502TR
M10	50	22.2	28.2	34.8	17.8	11.5	30	47	8475-404TR	8475-504TR
M10	50	22.2	28.2	34.8	17.8	11.5	40	53	8475-406TR	8475-506TR
M10	50	22.2	28.2	34.8	17.8	11.5	50	59	8475-408TR	8475-508TR
M10	50	22.2	28.2	34.8	17.8	11.5	60	66	8475-410TR	8475-510TR
M12	50	22.2	28.2	34.8	17.8	11.5	20	44	8475-412TR	-
M12	50	22.2	28.2	34.8	17.8	11.5	30	53	8475-414TR	-
M12	50	22.2	28.2	34.8	17.8	11.5	40	61	8475-416TR	-
M12	50	22.2	28.2	34.8	17.8	11.5	50	70	8475-418TR	-
M12	50	22.2	28.2	34.8	17.8	11.5	60	79	8475-420TR	-
M10	63	28	35.5	44	22.5	14.5	20	91	8475-422TR	8475-522TR
M10	63	28	35.5	44	22.5	14.5	30	97	8475-424TR	8475-524TR
M10	63	28	35.5	44	22.5	14.5	40	103	8475-426TR	8475-526TR
M10	63	28	35.5	44	22.5	14.5	50	109	8475-428TR	8475-528TR
M10	63	28	35.5	44	22.5	14.5	60	116	8475-430TR	8475-530TR
M12	63	28	35.5	44	22.5	14.5	20	84	8475-432TR	-
M12	63	28	35.5	44	22.5	14.5	30	93	8475-434TR	-
M12	63	28	35.5	44	22.5	14.5	40	101	8475-436TR	-
M12	63	28	35.5	44	22.5	14.5	50	110	8475-438TR	-
M12	63	28	35.5	44	22.5	14.5	60	119	8475-440TR	-

**New Styles**  
**New Features**  
**New Finishes**

Check out the  
**WDS Improved Range**  
of Hinges



# WDS 8475

## Clamp Grip - Male

### MATERIAL -

Body - Thermoplastic

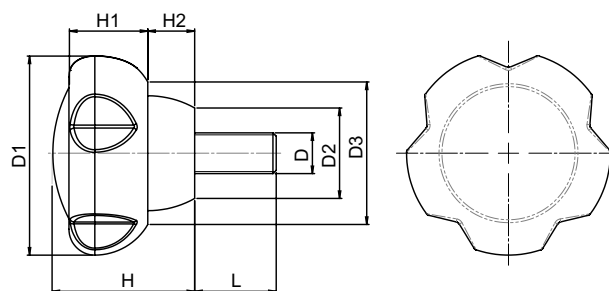
Insert - Steel - zinc plated

Insert - Stainless Steel - 303 S31


ZP

303

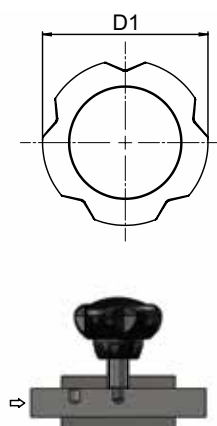
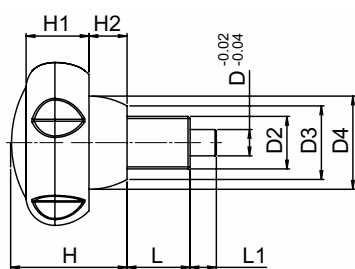
RAL  
1021



Cadmium Yellow - RAL 1021

D	D1	D2	D3	H	H1	H2	L	 (g)	WDS No. Steel Insert	WDS No. Stainless Steel Insert
M10	50	22.2	28.2	34.8	17.8	11.5	20	41	8475-402CY	8475-502CY
M10	50	22.2	28.2	34.8	17.8	11.5	30	47	8475-404CY	8475-504CY
M10	50	22.2	28.2	34.8	17.8	11.5	40	53	8475-406CY	8475-506CY
M10	50	22.2	28.2	34.8	17.8	11.5	50	59	8475-408CY	8475-508CY
M10	50	22.2	28.2	34.8	17.8	11.5	60	66	8475-410CY	8475-510CY
M12	50	22.2	28.2	34.8	17.8	11.5	20	44	8475-412CY	-
M12	50	22.2	28.2	34.8	17.8	11.5	30	53	8475-414CY	-
M12	50	22.2	28.2	34.8	17.8	11.5	40	61	8475-416CY	-
M12	50	22.2	28.2	34.8	17.8	11.5	50	70	8475-418CY	-
M12	50	22.2	28.2	34.8	17.8	11.5	60	79	8475-420CY	-
M10	63	28	35.5	44	22.5	14.5	20	91	8475-422CY	8475-522CY
M10	63	28	35.5	44	22.5	14.5	30	97	8475-424CY	8475-524CY
M10	63	28	35.5	44	22.5	14.5	40	103	8475-426CY	8475-526CY
M10	63	28	35.5	44	22.5	14.5	50	109	8475-428CY	8475-528CY
M10	63	28	35.5	44	22.5	14.5	60	116	8475-430CY	8475-530CY
M12	63	28	35.5	44	22.5	14.5	20	84	8475-432CY	-
M12	63	28	35.5	44	22.5	14.5	30	93	8475-434CY	-
M12	63	28	35.5	44	22.5	14.5	40	101	8475-436CY	-
M12	63	28	35.5	44	22.5	14.5	50	110	8475-438CY	-
M12	63	28	35.5	44	22.5	14.5	60	119	8475-440CY	-





## WDS 8480

### Locating and Clamp Grip

**MATERIAL -**  
 Body - Thermoplastic  
 Screw - Steel - chemical black  
 Locking pin - Steel hardened and ground

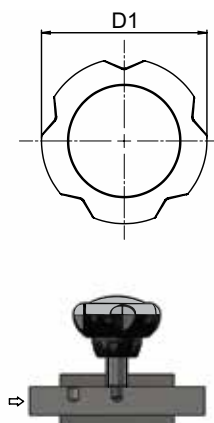
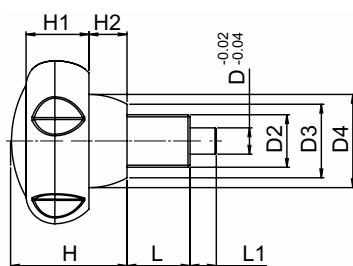
**RAL 7021**

This product facilitates Locating and Clamping in one movement with a spring loaded retractable pin

#### Related Products: Nuts

RAL 7021 Black/Grey

D	D1	D2	D3	D4	H	H1	H2	L	L1	⚖️ (g)	WDS No.
5	50	M10 x 1	22.2	28.2	34.8	17.8	11.5	13	5	33	8480-202BG
6	50	M12 x 1.5	22.2	28.2	34.8	17.8	11.5	17	6	40	8480-204BG
8	63	M16 x 1.5	28	35.5	44	22.5	14.5	22	8	97	8480-206BG
10	63	M20 x 1.5	28	35.5	44	22.5	14.5	24	10	135	8480-208BG



## WDS 8480

### Locating and Clamp Grip

**MATERIAL -**  
 Body - Thermoplastic  
 Screw - Steel - chemical black  
 Locking pin - Steel hardened and ground

**RAL 7035**

This product facilitates Locating and Clamping in one movement with a spring loaded retractable pin

#### Related Products: Nuts

RAL 7035 Pale Grey

D	D1	D2	D3	D4	H	H1	H2	L	L1	⚖️ (g)	WDS No.
5	50	M10 x 1	22.2	28.2	34.8	17.8	11.5	13	5	33	8480-202PG
6	50	M12 x 1.5	22.2	28.2	34.8	17.8	11.5	17	6	40	8480-204PG
8	63	M16 x 1.5	28	35.5	44	22.5	14.5	22	8	97	8480-206PG
10	63	M20 x 1.5	28	35.5	44	22.5	14.5	24	10	135	8480-208PG

# WDS 8480

## Locating and Clamp Grip

### MATERIAL -

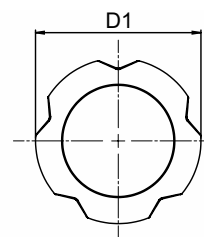
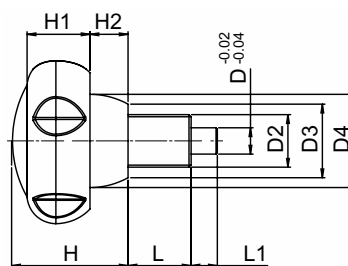
Body - Thermoplastic

Screw - Steel - chemical black

Locking pin - Steel hardened and ground


RAL  
3020

This product facilitates Locating and Clamping in one movement with a spring loaded retractable pin



### Related Products: Nuts

RAL 3020 Traffic Red

D	D1	D2	D3	D4	H	H1	H2	L	L1	 (g)	WDS No.
5	50	M10 x 1	22.2	28.2	34.8	17.8	11.5	13	5	33	8480-202TR
6	50	M12 x 1.5	22.2	28.2	34.8	17.8	11.5	17	6	40	8480-204TR
8	63	M16 x 1.5	28	35.5	44	22.5	14.5	22	8	97	8480-206TR
10	63	M20 x 1.5	28	35.5	44	22.5	14.5	24	10	135	8480-208TR

# WDS 8480

## Locating and Clamp Grip

### MATERIAL -

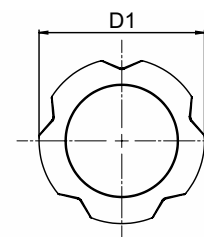
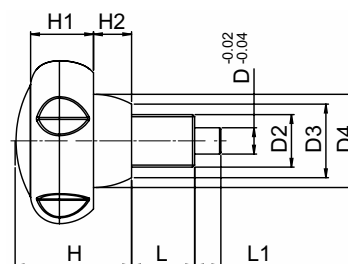
Body - Thermoplastic

Screw - Steel - chemical black

Locking pin - Steel hardened and ground


RAL  
1021

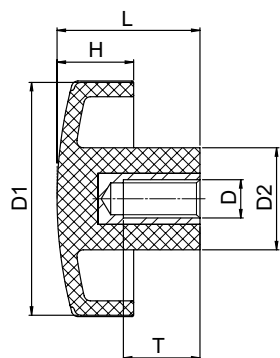
This product facilitates Locating and Clamping in one movement with a spring loaded retractable pin



### Related Products: Nuts

RAL 1021 Cadmium Yellow

D	D1	D2	D3	D4	H	H1	H2	L	L1	 (g)	WDS No.
5	50	M10 x 1	22.2	28.2	34.8	17.8	11.5	13	5	33	8480-202CY
6	50	M12 x 1.5	22.2	28.2	34.8	17.8	11.5	17	6	40	8480-204CY
8	63	M16 x 1.5	28	35.5	44	22.5	14.5	22	8	97	8480-206CY
10	63	M20 x 1.5	28	35.5	44	22.5	14.5	24	10	135	8480-208CY



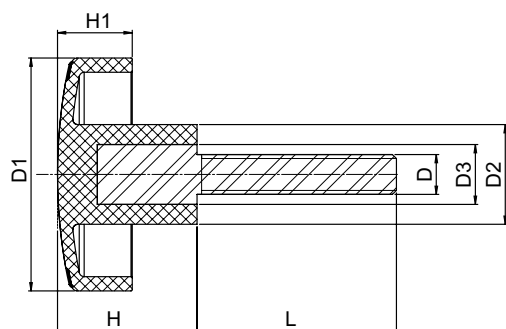
## WDS 8216

### Delta Style Hand Knob

**MATERIAL -**  
Grip - Nylon PA6  
Insert - Brass

#### Related Products: Studs


D	D1	D2	L	H	T	 (g)	WDS No.
M6	40	16	22.4	12	12	18	8216-201
M8	50	20	28	15	16	36	8216-203
M10	60	24	33.6	18.4	20	58	8216-205
M12	60	24	33.6	18.4	21	52	8216-206



## WDS 8217

### Tri - Lobe Screw

**MATERIAL -**  
Grip - Nylon PA6  
Stem - Steel, Zinc Plated

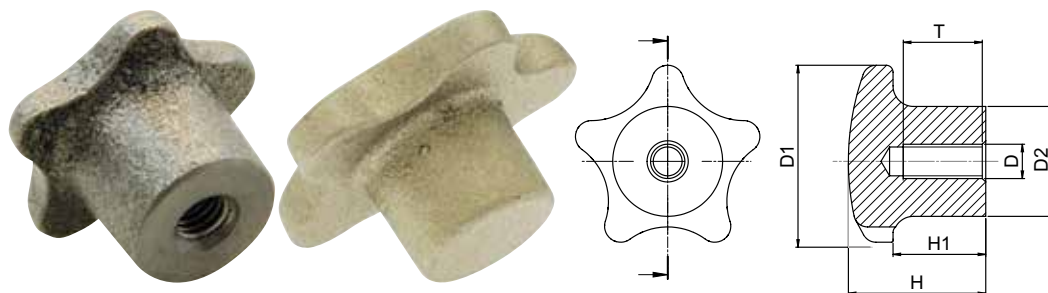
D	D1	D2	D3	H	H1	L	 (g)	WDS No.
M6	40	16	8	22.7	12	32	27	8217-20632
M8	50	20	12	28	15	40	52	8217-20840
M10	60	24	14	33.3	18.4	40	87	8217-21040
M12	60	24	14	33.3	18.4	40	95	8217-21240

# WDS 104

## 5 Spoke Hand Knob


**MATERIAL -**  
Cast Iron BS 1452 Gr 250

CI



### Related Products: Studs

Metric

D	D1	D2	H	H1	T	 (g)	WDS No. Blank	WDS No. Tapped
M5	28	16	20	13.5	12	35	104-201	104-2105
M6	28	16	20	13.5	12	35	104-201	104-211
M8	35	20	25	16	16	65	104-202	104-212
M10	40	23	25	16	16	65	104-203	104-213
M12	60	26	32	20	22	190	104-204	104-214
M14	60	26	32	20	22	185	104-204	104-215
M16	75	32	38	25	28	365	104-205	104-216
M20	90	38	45	25	32	635	104-206	104-217

Inch

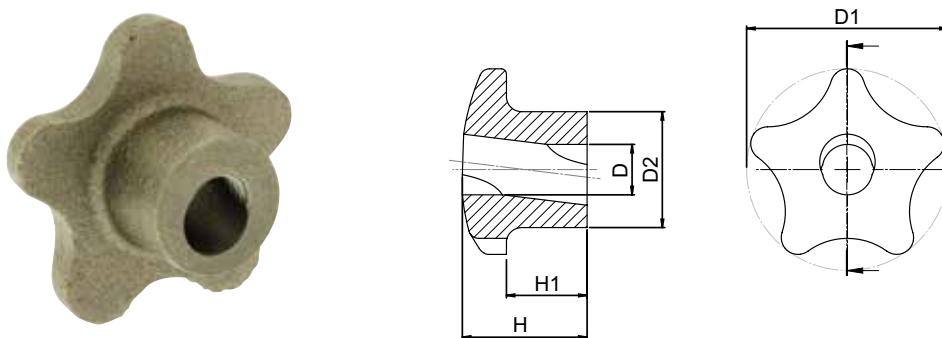
D	D1	D2	H	H1	T	 (g)	WDS No. Blank	WDS No. BA/BSF	WDS No. BSW	WDS No. UNC
2 BA	28	16	20	13.5	12	35	104-201	104-17	-	-
1/4	28	16	20	13.5	12	35	104-201	-	104-13	104-14
5/16	35	20	25	16	16	65	104-202	104-32	104-33	104-34
3/8	40	23	25	16	16	65	104-203	104-52	104-53	104-54
1/2	60	26	32	20	22	190	104-204	-	104-73	104-74

# WDS 113


## Quick Action Hand Knob

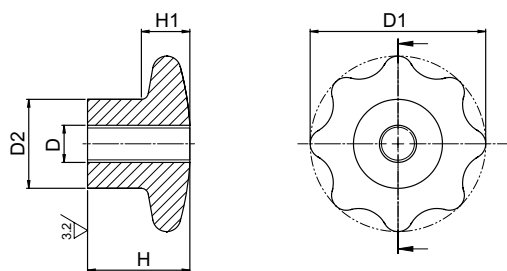
**MATERIAL -**  
Cast Iron BS 1452 Gr 250

CI



### Related Products: Studs

D	D1	D2	H	H1	 (g)	WDS No.
M6	35	20	25	16	74	113-201
M8	35	20	25	16	71	113-202
M10	40	23	25	16	81	113-203
M12	60	26	32	20	179	113-204
M16	75	32	38	25	283	113-206



## WDS 108

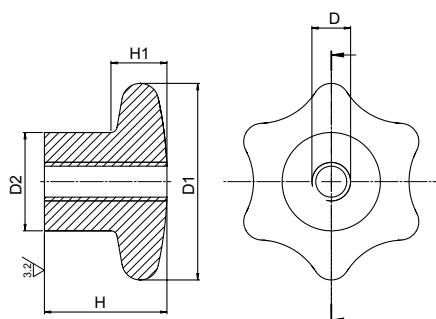
### Star Knob

**MATERIAL -**  
Cast Iron  
BS 1452 Gr 250

CI

#### Related Products: Studs

Metric	D	Inch	D1	D2	H	H1	(g)	WDS No Blank.	WDS No Metric	WDS No BSW	WDS No UNC
M12		1/2	75	38	45	18	631	108-201	108-211	108-06	108-04
M16		5/8	75	38	45	18	575	108-201	108-213	108-07	108-05



## WDS 107

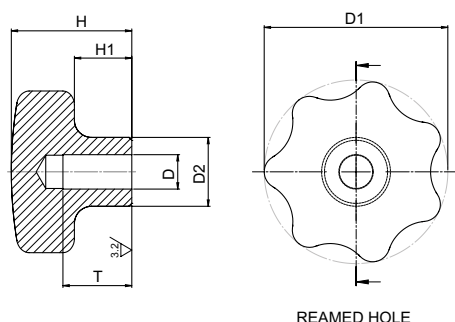
### Star Knob

**MATERIAL -**  
Cast Iron  
BS 1452 Gr 250

CI

#### Related Products: Studs

Metric	D	Inch	D1	D2	H	H1	(g)	WDS No. Blank	WDS No. Metric	WDS No. BSW	WDS No. UNC
M8		-	50	25	32	12	195	107-201	107-2105	-	-
M10		3/8	50	25	32	12	191	107-201	107-211	107-07	107-05
M12		1/2	50	25	32	12	175	107-201	107-212	107-12	107-10



## WDS 8172

### Hand Knob Reamed

**MATERIAL -**  
Aluminium  
polished or anodised

AI

Note: Item has 3 to 5 degree draft angle.

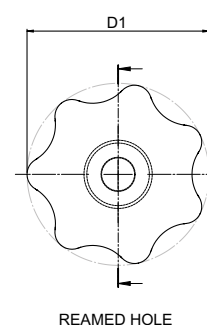
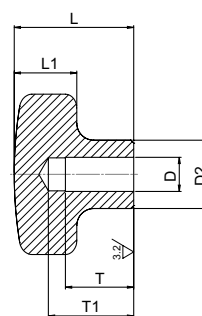
D <sup>H7</sup>	D1	D2	H	H1	T	(g)	WDS No. Polished	WDS No. Anodised
8	40	14	26	13	15	45	8172-201	8172-401
10	50	18	34	17	18	65	8172-202	8172-402
12	63	20	42	21	22	110	8172-203	8172-403
16	80	25	52	25	28	190	8172-204	8172-404

# WDS 8321

## Hand Knob Reamed

**MATERIAL -**  
BS970 Gr 304S11  
Stainless Steel casting  
Polished

304



REAMED HOLE

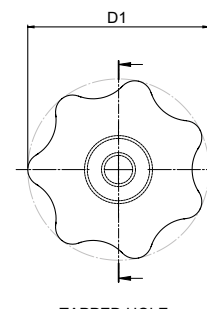
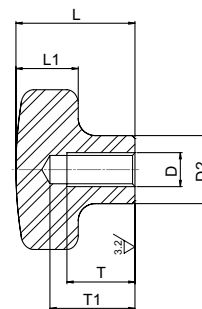
D <sup>H7</sup>	D1	D2	L	L1	T	T1	⚖️ (g)	WDS No.
6	32	12	21	11	12	15	52	8321-201
8	40	14	26	13	15	18	98	8321-202
10	50	18	34	17	18	21	200	8321-203
12	63	20	42	21	22	25	367	8321-204

# WDS 8321

## Hand Knob Threaded

**MATERIAL**  
BS970 Gr 316S  
Stainless Steel casting  
Polished or Matt

316



TAPPED HOLE

Related Products: Studs

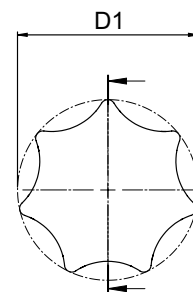
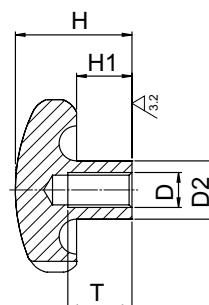
D	D1	D2	L	L1	T	T1	⚖️ (g)	WDS No. Polished	WDS No. Matt
M6	32	12	21	11	12	15	52	8321-411	8321-411M
M8	40	14	26	13	15	18	98	8321-412	8321-412M
M10	50	18	34	17	18	21	200	8321-413	8321-413M
M12	63	20	42	21	22	25	367	8321-414	8321-414M

# WDS 8185

## Hand Knob

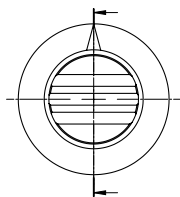
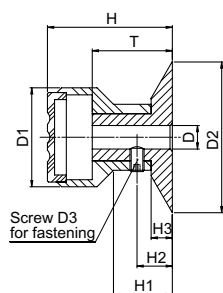
**MATERIAL -**  
Cast Iron

CI



Related Products: Studs

D	D1	D2	H	H1	T	⚖️ (g)	WDS No.
M6	32	12	21	9	12	50	8185-201
M8	40	14	26	12	15	70	8185-202
M10	50	18	34	15	18	110	8185-203
M12	63	20	44	19	22	170	8185-204



# WDS 8455

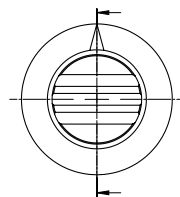
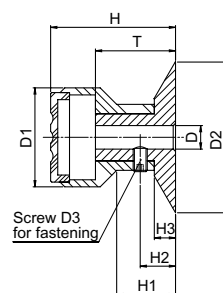
## Adjusting Knob

**MATERIAL -**  
Body - Thermoplastic  
Disc - Black anodised aluminium

**RAL**  
7021

**Black Grey - RAL 7021**

D H7	D1	D2	D3	H	H1	H2	H3	T	⚖️ (g)	WDS No.
5	21	32	M3	26.5	12.5	7.5	4.5	17	9.2	8455-202BG
6	26	40	M4	31.5	15	9.5	5.5	20.5	21.3	8455-204BG
8	34	52	M4	43	20	12	7	22	25.5	8455-206BG



# WDS 8455

## Adjusting Knob

**MATERIAL -**  
Body - Thermoplastic  
Disc - Black anodised aluminium

**RAL**  
7035

**Pale Grey - RAL 7035**

D H7	D1	D2	D3	H	H1	H2	H3	T	⚖️ (g)	WDS No.
5	21	32	M3	26.5	12.5	7.5	4.5	17	9.2	8455-202PG
6	26	40	M4	31.5	15	9.5	5.5	20.5	21.3	8455-204PG
8	34	52	M4	43	20	12	7	22	25.5	8455-206PG

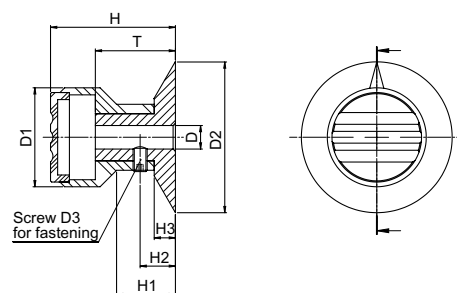


# WDS 8455


## Adjusting Knob

**MATERIAL -**  
Body - Thermoplastic  
Disc - Black anodised aluminium

RAL  
3020



Traffic Red - RAL 3020

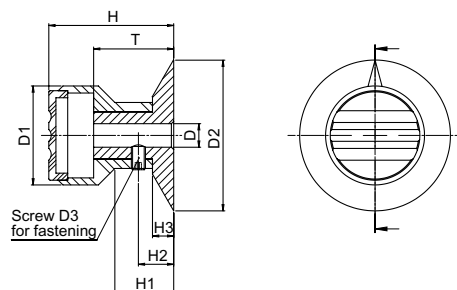
D <sup>H7</sup>	D1	D2	D3	H	H1	H2	H3	T	 (g)	WDS No.
5	21	32	M3	26.5	12.5	7.5	4.5	17	9.2	8455-202TR
6	26	40	M4	31.5	15	9.5	5.5	20.5	21.3	8455-204TR
8	34	52	M4	43	20	12	7	22	25.5	8455-206TR

# WDS 8455


## Adjusting Knob

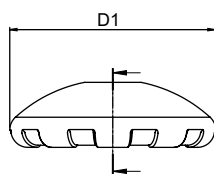
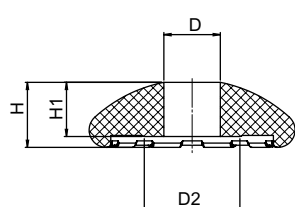
**MATERIAL -**  
Body - Thermoplastic  
Disc - Black anodised aluminium

RAL  
1021



Cadmium Yellow - RAL 1021


D <sup>H7</sup>	D1	D2	D3	H	H1	H2	H3	T	 (g)	WDS No.
5	21	32	M3	26.5	12.5	7.5	4.5	17	9.2	8455-202CY
6	26	40	M4	31.5	15	9.5	5.5	20.5	21.3	8455-204CY
8	34	52	M4	43	20	12	7	22	25.5	8455-206CY

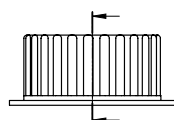
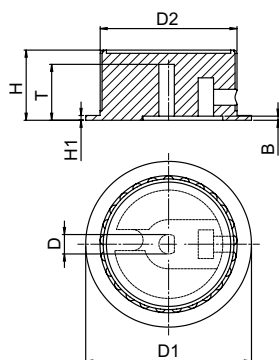


## WDS 8113

### Clamping Device Wheel

MATERIAL -  
PF74 (Bakelite)

D	D1	D2	H	H1	 (g)	WDS No.
16.1/16.0	60	28	20	16	40	8113-1660
22.1/22.0	80	38	25	20	80	8113-2280
26.1/26.0	95	45	30	25	150	8113-2695




## WDS 8112

### Control Knob - D Fitting

MATERIAL -  
PF31 (Bakelite)

Secured with M5 Screw  
6mm Diameter Bore Fitting

D	D1	D2	H	H1	B	T	 (g)	WDS No.
6.1	52	43	22	2.2	1.3	19.3	34	8112-203

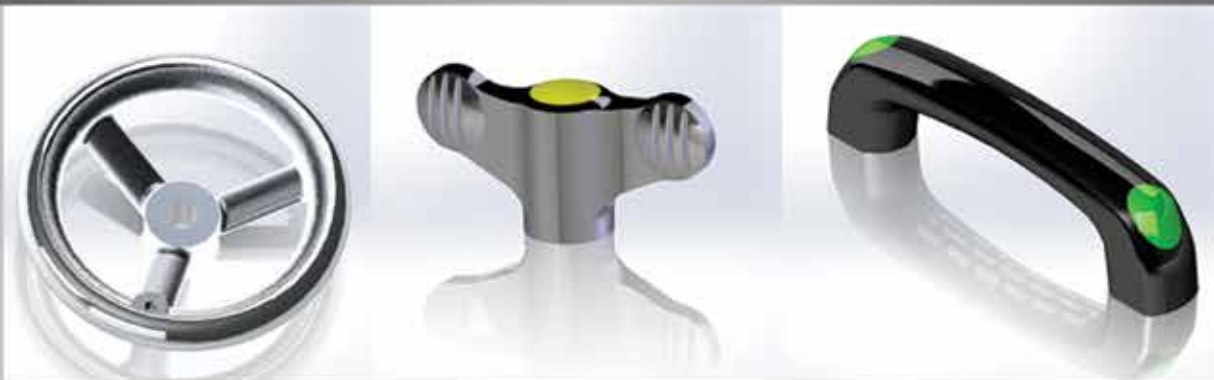
**Don't *Fly*  
off the  
Handle!**

**We have one to suit  
every purpose.**

**Section 16**



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