

DP

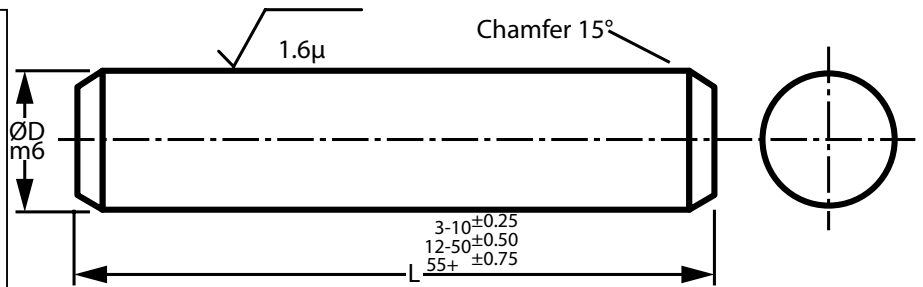
# MECHANICAL

## Dowel Pins

A2 Stainless Steel : ISO 2338, 1998 : 0.8 - 5mm Dia.



Chamfered Ends



Part Number	ØD m6	Length L	Double Shear Strength* (kN)	Part Number	ØD m6	Length L	Double Shear Strength* (kN)
<a href="#">DP0.8-5</a>	0.8	5	0.4	<a href="#">DP3.0-4</a>	3	4	6.6
<a href="#">DP0.8-8</a>	0.8	8	0.4	<a href="#">DP3.0-5</a>	3	5	6.6
<a href="#">DP0.8-10</a>	0.8	10	0.4	<a href="#">DP3.0-6</a>	3	6	6.6
<a href="#">DP0.8-12</a>	0.8	12	0.4	<a href="#">DP3.0-8</a>	3	8	6.6
<a href="#">DP1.0-4</a>	1.0	4	0.7	<a href="#">DP3.0-10</a>	3	10	6.6
<a href="#">DP1.0-5</a>	1.0	5	0.7	<a href="#">DP3.0-12</a>	3	12	6.6
<a href="#">DP1.0-6</a>	1.0	6	0.7	<a href="#">DP3.0-14</a>	3	14	6.6
<a href="#">DP1.0-8</a>	1.0	8	0.7	<a href="#">DP3.0-16</a>	3	16	6.6
<a href="#">DP1.0-10</a>	1.0	10	0.7	<a href="#">DP3.0-18</a>	3	18	6.6
<a href="#">DP1.0-12</a>	1.0	12	0.7	<a href="#">DP3.0-20</a>	3	20	6.6
<a href="#">DP1.5-4</a>	1.5	4	1.7	<a href="#">DP3.0-24</a>	3	24	6.6
<a href="#">DP1.5-5</a>	1.5	5	1.7	<a href="#">DP3.0-28</a>	3	28	6.6
<a href="#">DP1.5-6</a>	1.5	6	1.7	<a href="#">DP3.0-30</a>	3	30	6.6
<a href="#">DP1.5-8</a>	1.5	8	1.7	<a href="#">DP4.0-5</a>	4	5	11.7
<a href="#">DP1.5-10</a>	1.5	10	1.7	<a href="#">DP4.0-6</a>	4	6	11.7
<a href="#">DP1.5-12</a>	1.5	12	1.7	<a href="#">DP4.0-8</a>	4	8	11.7
<a href="#">DP1.5-14</a>	1.5	14	1.7	<a href="#">DP4.0-10</a>	4	10	11.7
<a href="#">DP1.5-16</a>	1.5	16	1.7	<a href="#">DP4.0-12</a>	4	12	11.7
<a href="#">DP2.0-4</a>	2.0	4	2.9	<a href="#">DP4.0-14</a>	4	14	11.7
<a href="#">DP2.0-5</a>	2.0	5	2.9	<a href="#">DP4.0-16</a>	4	16	11.7
<a href="#">DP2.0-6</a>	2.0	6	2.9	<a href="#">DP4.0-18</a>	4	18	11.7
<a href="#">DP2.0-8</a>	2.0	8	2.9	<a href="#">DP4.0-20</a>	4	20	11.7
<a href="#">DP2.0-10</a>	2.0	10	2.9	<a href="#">DP4.0-24</a>	4	24	11.7
<a href="#">DP2.0-12</a>	2.0	12	2.9	<a href="#">DP4.0-28</a>	4	28	11.7
<a href="#">DP2.0-14</a>	2.0	14	2.9	<a href="#">DP4.0-30</a>	4	30	11.7
<a href="#">DP2.0-16</a>	2.0	16	2.9	<a href="#">DP4.0-32</a>	4	32	11.7
<a href="#">DP2.0-18</a>	2.0	18	2.9	<a href="#">DP4.0-36</a>	4	36	11.7
<a href="#">DP2.0-20</a>	2.0	20	2.9	<a href="#">DP4.0-40</a>	4	40	11.7
<a href="#">DP2.0-24</a>	2.0	24	2.9	<a href="#">DP4.0-45</a>	4	45	11.7
<a href="#">DP2.5-4</a>	2.5	4	4.4	<a href="#">DP4.0-50</a>	4	50	11.7
<a href="#">DP2.5-5</a>	2.5	5	4.4	<a href="#">DP5.0-6</a>	5	6	18.1
<a href="#">DP2.5-6</a>	2.5	6	4.4	<a href="#">DP5.0-8</a>	5	8	18.1
<a href="#">DP2.5-8</a>	2.5	8	4.4	<a href="#">DP5.0-10</a>	5	10	18.1
<a href="#">DP2.5-10</a>	2.5	10	4.4	<a href="#">DP5.0-12</a>	5	12	18.1
<a href="#">DP2.5-12</a>	2.5	12	4.4	<a href="#">DP5.0-14</a>	5	14	18.1
<a href="#">DP2.5-14</a>	2.5	14	4.4	<a href="#">DP5.0-16</a>	5	16	18.1
<a href="#">DP2.5-16</a>	2.5	16	4.4	<a href="#">DP5.0-18</a>	5	18	18.1
<a href="#">DP2.5-18</a>	2.5	18	4.4	<a href="#">DP5.0-20</a>	5	20	18.1
<a href="#">DP2.5-20</a>	2.5	20	4.4	<a href="#">DP5.0-24</a>	5	24	18.1
<a href="#">DP2.5-24</a>	2.5	24	4.4	<a href="#">DP5.0-28</a>	5	28	18.1
				<a href="#">DP5.0-30</a>	5	30	18.1

### Material

A2 Stainless Steel.

Also available in A4 Stainless Steel; through hardened Steel 100 Cr6 (1.3505) to HV550-650; unhardened Mild Steel (9SMnPb28, WS 1.0718), P.O.A.

**Standard Tolerance:** Dowels are ground to m6 tolerance as standard.

\* **Double Shear Strengths:** Tested to ISO 8749.

Also available in h7 and h8 tolerance, P.O.A.

16, 20, 25 and 30mm diameter dowel pins available as standard in lengths up to 120mm. Other lengths available, P.O.A.



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**DP**

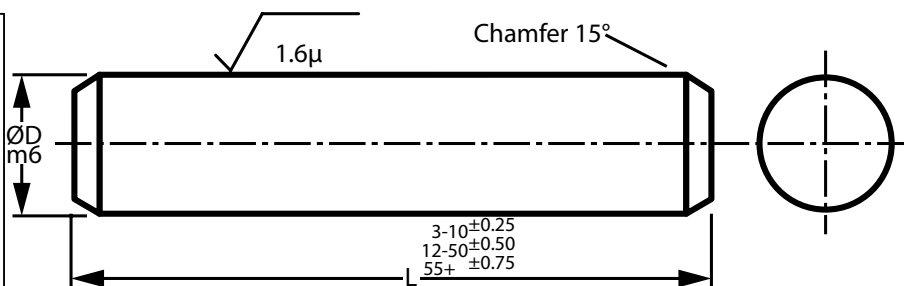
# MECHANICAL

## Dowel Pins

A2 Stainless Steel : ISO 2338, 1998 : 5 - 12mm Dia.



**Chamfered Ends**



Part Number	ØD m6	Length L	Double Shear Strength* (kN)	Part Number	ØD m6	Length L	Double Shear Strength* (kN)
<a href="#">DP5.0-32</a>	5	32	18.1	<a href="#">DP8.0-60</a>	8	60	47.0
<a href="#">DP5.0-36</a>	5	36	18.1	<a href="#">DP8.0-70</a>	8	70	47.0
<a href="#">DP5.0-40</a>	5	40	18.1	<a href="#">DP8.0-80</a>	8	80	47.0
<a href="#">DP5.0-45</a>	5	45	18.1	<a href="#">DP10.0-10</a>	10	10	64.1
<a href="#">DP5.0-50</a>	5	50	18.1	<a href="#">DP10.0-12</a>	10	12	64.1
<a href="#">DP5.0-55</a>	5	55	18.1	<a href="#">DP10.0-14</a>	10	14	64.1
<a href="#">DP5.0-60</a>	5	60	18.1	<a href="#">DP10.0-16</a>	10	16	64.1
<a href="#">DP6.0-6</a>	6	6	26.0	<a href="#">DP10.0-18</a>	10	18	64.1
<a href="#">DP6.0-8</a>	6	8	26.0	<a href="#">DP10.0-20</a>	10	20	64.1
<a href="#">DP6.0-10</a>	6	10	26.0	<a href="#">DP10.0-24</a>	10	24	64.1
<a href="#">DP6.0-12</a>	6	12	26.0	<a href="#">DP10.0-28</a>	10	28	64.1
<a href="#">DP6.0-14</a>	6	14	26.0	<a href="#">DP10.0-30</a>	10	30	64.1
<a href="#">DP6.0-16</a>	6	16	26.0	<a href="#">DP10.0-32</a>	10	32	64.1
<a href="#">DP6.0-18</a>	6	18	26.0	<a href="#">DP10.0-36</a>	10	36	64.1
<a href="#">DP6.0-20</a>	6	20	26.0	<a href="#">DP10.0-40</a>	10	40	64.1
<a href="#">DP6.0-24</a>	6	24	26.0	<a href="#">DP10.0-45</a>	10	45	64.1
<a href="#">DP6.0-28</a>	6	28	26.0	<a href="#">DP10.0-50</a>	10	50	64.1
<a href="#">DP6.0-30</a>	6	30	26.0	<a href="#">DP10.0-55</a>	10	55	64.1
<a href="#">DP6.0-32</a>	6	32	26.0	<a href="#">DP10.0-60</a>	10	60	64.1
<a href="#">DP6.0-36</a>	6	36	26.0	<a href="#">DP10.0-70</a>	10	70	64.1
<a href="#">DP6.0-40</a>	6	40	26.0	<a href="#">DP10.0-80</a>	10	80	64.1
<a href="#">DP6.0-45</a>	6	45	26.0	<a href="#">DP10.0-90</a>	10	90	64.1
<a href="#">DP6.0-50</a>	6	50	26.0	<a href="#">DP10.0-100</a>	10	100	64.1
<a href="#">DP6.0-55</a>	6	55	26.0	<a href="#">DP12.0-14</a>	12	14	92.0
<a href="#">DP6.0-60</a>	6	60	26.0	<a href="#">DP12.0-16</a>	12	16	92.0
<a href="#">DP8.0-8</a>	8	8	47.0	<a href="#">DP12.0-18</a>	12	18	92.0
<a href="#">DP8.0-10</a>	8	10	47.0	<a href="#">DP12.0-20</a>	12	20	92.0
<a href="#">DP8.0-12</a>	8	12	47.0	<a href="#">DP12.0-24</a>	12	24	92.0
<a href="#">DP8.0-14</a>	8	14	47.0	<a href="#">DP12.0-28</a>	12	28	92.0
<a href="#">DP8.0-16</a>	8	16	47.0	<a href="#">DP12.0-30</a>	12	30	92.0
<a href="#">DP8.0-18</a>	8	18	47.0	<a href="#">DP12.0-32</a>	12	32	92.0
<a href="#">DP8.0-20</a>	8	20	47.0	<a href="#">DP12.0-36</a>	12	36	92.0
<a href="#">DP8.0-24</a>	8	24	47.0	<a href="#">DP12.0-40</a>	12	40	92.0
<a href="#">DP8.0-28</a>	8	28	47.0	<a href="#">DP12.0-45</a>	12	45	92.0
<a href="#">DP8.0-30</a>	8	30	47.0	<a href="#">DP12.0-50</a>	12	50	92.0
<a href="#">DP8.0-32</a>	8	32	47.0	<a href="#">DP12.0-55</a>	12	55	92.0
<a href="#">DP8.0-36</a>	8	36	47.0	<a href="#">DP12.0-60</a>	12	60	92.0
<a href="#">DP8.0-40</a>	8	40	47.0	<a href="#">DP12.0-70</a>	12	70	92.0
<a href="#">DP8.0-45</a>	8	45	47.0	<a href="#">DP12.0-80</a>	12	80	92.0
<a href="#">DP8.0-50</a>	8	50	47.0	<a href="#">DP12.0-90</a>	12	90	92.0
<a href="#">DP8.0-55</a>	8	55	47.0	<a href="#">DP12.0-100</a>	12	100	92.0

### Other Info.

General guidance on hole tolerances but there are graduations within each category:

Hole Material	Interference Fit	Transition Fit	Clearance Fit
Hardened Steel	Pin Dia. less 5 µm	Pin Dia. less 2 µm	Pin Dia. plus 25-60 µm
Mild Steel	Pin Dia. less 25 µm	Pin Dia. less 5 µm	Pin Dia. plus 25-60 µm
Aluminium/Zinc/Brass	Pin Dia. less 35 µm	Pin Dia. less 5 µm	Pin Dia. plus 25-60 µm

When a dowel is interference-fitted into a blind hole it increases the pressure of the air trapped into the hole. It is strongly advised to specify that the dowel should have an air release flat ground along its full length to prevent the dowel being ejected under the pressure of compressed air, or bursting the component into which it is driven.

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**DP-A4**

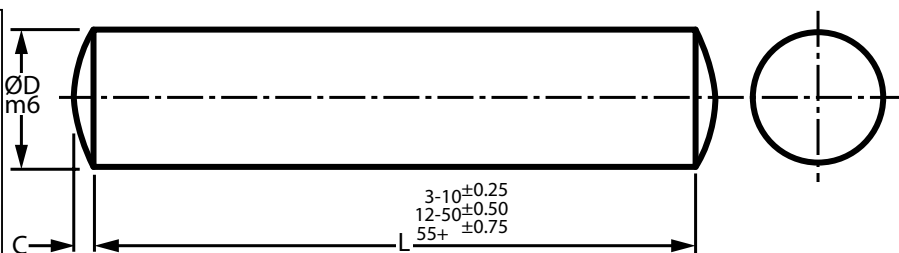
# MECHANICAL

## Dowel Pins

A4 Stainless Steel : DIN 7, 1.5 : 8mm Dia.



**Rounded Ends**



Part Number	ØD m6	Length L	C	Part Number	ØD m6	Length L	C
<a href="#">DP1.5-6/A4</a>	1.5	6	0.23	<a href="#">DP5.0-10/A4</a>	5	10	0.75
<a href="#">DP1.5-8/A4</a>	1.5	8	0.23	<a href="#">DP5.0-12/A4</a>	5	12	0.75
<a href="#">DP1.5-10/A4</a>	1.5	10	0.23	<a href="#">DP5.0-16/A4</a>	5	16	0.75
<a href="#">DP1.5-12/A4</a>	1.5	12	0.23	<a href="#">DP5.0-20/A4</a>	5	20	0.75
<a href="#">DP1.5-16/A4</a>	1.5	16	0.23	<a href="#">DP5.0-24/A4</a>	5	24	0.75
<a href="#">DP2.0-6/A4</a>	2.0	6	0.30	<a href="#">DP5.0-30/A4</a>	5	30	0.75
<a href="#">DP2.0-8/A4</a>	2.0	8	0.30	<a href="#">DP5.0-40/A4</a>	5	40	0.75
<a href="#">DP2.0-10/A4</a>	2.0	10	0.30	<a href="#">DP6.0-12/A4</a>	6	12	0.90
<a href="#">DP2.0-12/A4</a>	2.0	12	0.30	<a href="#">DP6.0-16/A4</a>	6	16	0.90
<a href="#">DP2.0-16/A4</a>	2.0	16	0.30	<a href="#">DP6.0-20/A4</a>	6	20	0.90
<a href="#">DP3.0-8/A4</a>	3.0	8	0.45	<a href="#">DP6.0-24/A4</a>	6	24	0.90
<a href="#">DP3.0-10/A4</a>	3.0	10	0.45	<a href="#">DP6.0-30/A4</a>	6	30	0.90
<a href="#">DP3.0-12/A4</a>	3.0	12	0.45	<a href="#">DP6.0-40/A4</a>	6	40	0.90
<a href="#">DP3.0-16/A4</a>	3.0	16	0.45	<a href="#">DP6.0-50/A4</a>	6	50	0.90
<a href="#">DP3.0-20/A4</a>	3.0	20	0.45	<a href="#">DP8.0-12/A4</a>	8	12	1.20
<a href="#">DP3.0-24/A4</a>	3.0	24	0.45	<a href="#">DP8.0-16/A4</a>	8	16	1.20
<a href="#">DP4.0-10/A4</a>	4.0	10	0.60	<a href="#">DP8.0-20/A4</a>	8	20	1.20
<a href="#">DP4.0-12/A4</a>	4.0	12	0.60	<a href="#">DP8.0-24/A4</a>	8	24	1.20
<a href="#">DP4.0-16/A4</a>	4.0	16	0.60	<a href="#">DP8.0-30/A4</a>	8	30	1.20
<a href="#">DP4.0-20/A4</a>	4.0	20	0.60	<a href="#">DP8.0-40/A4</a>	8	40	1.20
<a href="#">DP4.0-24/A4</a>	4.0	24	0.60	<a href="#">DP8.0-50/A4</a>	8	50	1.20
<a href="#">DP4.0-30/A4</a>	4.0	30	0.60				

### Material

A4 Stainless Steel.

Also available in A2 Stainless Steel and Mild Steel (m6 or h8 tolerances), P.O.A.

**Standard Tolerance:** Dowels are ground to m6 tolerance as standard.

\* **Double Shear Strengths:** Tested to ISO 8749.

Many more diameters (0.8 to 30mm dias.) and lengths up to 120mm - including non-metric equivalent sizes - available, P.O.A. Selection kits available, P.O.A.

### Other Info.

General guidance on hole tolerances but there are graduations within each category:

Hole Material	Interference Fit	Transition Fit	Clearance Fit
Hardened Steel	Pin Dia. less 5 µm	Pin Dia. less 2 µm	Pin Dia. plus 25-60 µm
Mild Steel	Pin Dia. less 25 µm	Pin Dia. less 5 µm	Pin Dia. plus 25-60 µm
Aluminium/Zinc/Brass	Pin Dia. less 35 µm	Pin Dia. less 5 µm	Pin Dia. plus 25-60 µm

When a dowel is interference-fitted into a blind hole it increases the pressure of the air trapped into the hole. It is strongly advised to specify that the dowel should have an air release flat ground along its full length to prevent the dowel being ejected under the pressure of compressed air, or bursting the component into which it is driven.



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**DH**

# MECHANICAL

## Dowel Pins

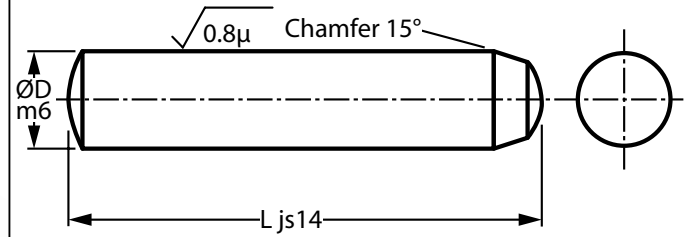
Hard Ground Steel : DIN 6325 : 1 - 5mm Dia.



**Chamfered End**



**Rounded End**



Part Number	ØD m6	Length L js14	Double Shear Strength* (kN)	Part Number	ØD m6	Length L js14	Double Shear Strength* (kN)
DH1-4	1.0	4	1.5	DH3-6	3	6	13
DH1-5	1.0	5	1.5	DH3-8	3	8	13
DH1-6	1.0	6	1.5	DH3-10	3	10	13
DH1-8	1.0	8	1.5	DH3-12	3	12	13
DH1-10	1.0	10	1.5	DH3-14	3	14	13
DH1-12	1.0	12	1.5	DH3-16	3	16	13
DH1.5-5	1.5	5	3.4	DH3-18	3	18	13
DH1.5-6	1.5	6	3.4	DH3-20	3	20	13
DH1.5-8	1.5	8	3.4	DH3-22	3	22	13
DH1.5-10	1.5	10	3.4	DH3-24	3	24	13
DH1.5-12	1.5	12	3.4	DH3-26	3	26	13
DH1.5-14	1.5	14	3.4	DH3-28	3	28	13
DH1.5-16	1.5	16	3.4	DH3-30	3	30	13
DH1.5-18	1.5	18	3.4	DH3-32	3	32	13
DH1.5-20	1.5	20	3.4	DH3-36	3	36	13
DH1.5-22	1.5	22	3.4	DH3-40	3	40	13
DH1.5-24	1.5	24	3.4	DH3-45	3	45	13
DH1.5-26	1.5	26	3.4	DH3-50	3	50	13
DH1.5-28	1.5	28	3.4	DH3-55	3	55	13
DH1.5-30	1.5	30	3.4	DH3-60	3	60	13
DH2-6	1.5	6	5.5	DH4-6	4	6	22
DH2-8	2.0	8	5.5	DH4-8	4	8	22
DH2-10	2.0	10	5.5	DH4-10	4	10	22
DH2-12	2.0	12	5.5	DH4-12	4	12	22
DH2-14	2.0	14	5.5	DH4-14	4	14	22
DH2-16	2.0	16	5.5	DH4-16	4	16	22
DH2-18	2.0	18	5.5	DH4-18	4	18	22
DH2-20	2.0	20	5.5	DH4-20	4	20	22
DH2-22	2.0	22	5.5	DH4-22	4	22	22
DH2-24	2.0	24	5.5	DH4-24	4	24	22
DH2-26	2.0	26	5.5	DH4-26	4	26	22
DH2-28	2.0	28	5.5	DH4-28	4	28	22
DH2-30	2.0	30	5.5	DH4-30	4	30	22
DH2-32	2.0	32	5.5	DH4-32	4	32	22
DH2-36	2.0	36	5.5	DH4-36	4	36	22
DH2-40	2.0	40	5.5	DH4-40	4	40	22
DH2.5-6	2.5	6	8.0	DH4-45	4	45	22
DH2.5-8	2.5	8	8.0	DH4-50	4	50	22
DH2.5-10	2.5	10	8.0	DH4-55	4	55	22
DH2.5-12	2.5	12	8.0	DH4-60	4	60	22
DH2.5-14	2.5	14	8.0	DH5-6	5	6	31
DH2.5-16	2.5	16	8.0	DH5-8	5	8	31
DH2.5-18	2.5	18	8.0	DH5-10	5	10	31
DH2.5-20	2.5	20	8.0	DH5-12	5	12	31
DH2.5-22	2.5	22	8.0	DH5-14	5	14	31
DH2.5-24	2.5	24	8.0	DH5-16	5	16	31
DH2.5-26	2.5	26	8.0	DH5-18	5	18	31
DH2.5-28	2.5	28	8.0	DH5-20	5	20	31
DH2.5-30	2.5	30	8.0	DH5-22	5	22	31
DH2.5-32	2.5	32	8.0	DH5-24	5	24	31
DH2.5-36	2.5	36	8.0	DH5-25	5	25	31
DH2.5-40	2.5	40	8.0	DH5-26	5	26	31
DH2.5-45	2.5	45	8.0	DH5-28	5	28	31
DH2.5-50	2.5	50	8.0	DH5-30	5	30	31

DH

# MECHANICAL

## Dowel Pins

Hard Ground Steel : DIN 6325 : 5 - 20mm Dia.

Part Number	ØD m6	Length L js14	Double Shear Strength* (kN)	Part Number	ØD m6	Length L js14	Double Shear Strength* (kN)
DH5-32	5	32	31	DH10-100	10	100	132
DH5-36	5	36	31	DH10-110	10	110	132
DH5-40	5	40	31	DH10-120	10	120	132
DH5-45	5	45	31	DH12-20	12	20	210
DH5-50	5	50	31	DH12-22	12	22	210
DH5-55	5	55	31	DH12-24	12	24	210
DH5-60	5	60	31	DH12-26	12	26	210
DH5-70	5	70	31	DH12-28	12	28	210
DH6-10	6	10	53	DH12-30	12	30	210
DH6-12	6	12	53	DH12-32	12	32	210
DH6-14	6	14	53	DH12-36	12	36	210
DH6-16	6	16	53	DH12-40	12	40	210
DH6-18	6	18	53	DH12-45	12	45	210
DH6-20	6	20	53	DH12-50	12	50	210
DH6-22	6	22	53	DH12-55	12	55	210
DH6-24	6	24	53	DH12-60	12	60	210
DH6-26	6	26	53	DH12-70	12	70	210
DH6-28	6	28	53	DH12-80	12	80	210
DH6-30	6	30	53	DH12-90	12	90	210
DH6-32	6	32	53	DH12-100	12	100	210
DH6-36	6	36	53	DH12-110	12	110	210
DH6-40	6	40	53	DH12-120	12	120	210
DH6-45	6	45	53	DH14-24	14	24	260
DH6-50	6	50	53	DH14-26	14	26	260
DH6-55	6	55	53	DH14-28	14	28	260
DH6-60	6	60	53	DH14-30	14	30	260
DH6-70	6	70	53	DH14-32	14	32	260
DH6-80	6	80	53	DH14-36	14	36	260
DH6-90	6	90	53	DH14-40	14	40	260
DH6-100	6	100	53	DH14-45	14	45	260
DH8-14	8	14	88	DH14-50	14	50	260
DH8-16	8	16	88	DH14-55	14	55	260
DH8-18	8	18	88	DH14-60	14	60	260
DH8-20	8	20	88	DH14-70	14	70	260
DH8-22	8	22	88	DH14-80	14	80	260
DH8-24	8	24	88	DH14-90	14	90	260
DH8-26	8	26	88	DH14-100	14	100	260
DH8-28	8	28	88	DH14-110	14	110	260
DH8-30	8	30	88	DH14-120	14	120	260
DH8-32	8	32	88	DH16-24	16	24	350
DH8-36	8	36	88	DH16-26	16	26	350
DH8-40	8	40	88	DH16-28	16	28	350
DH8-45	8	45	88	DH16-30	16	30	350
DH8-50	8	50	88	DH16-32	16	32	350
DH8-55	8	55	88	DH16-36	16	36	350
DH8-60	8	60	88	DH16-40	16	40	350
DH8-80	8	80	88	DH16-45	16	45	350
DH8-90	8	90	88	DH16-50	16	50	350
DH8-100	8	100	88	DH16-55	16	55	350
DH8-110	8	110	88	DH16-60	16	60	350
DH8-120	8	120	88	DH16-70	16	70	350
DH10-20	10	20	132	DH16-80	16	80	350
DH10-22	10	22	132	DH16-90	16	90	350
DH10-24	10	24	132	DH16-100	16	100	350
DH10-26	10	26	132	DH16-110	16	110	350
DH10-28	10	28	132	DH16-120	16	120	350
DH10-30	10	30	132	DH20-40	20	40	485
DH10-32	10	32	132	DH20-45	20	45	485
DH10-36	10	36	132	DH20-50	20	50	485
DH10-40	10	40	132	DH20-55	20	55	485
DH10-45	10	45	132	DH20-60	20	60	485
DH10-50	10	50	132	DH20-70	20	70	485
DH10-55	10	55	132	DH20-80	20	80	485
DH10-60	10	60	132	DH20-90	20	90	485
DH10-70	10	70	132	DH20-100	20	100	485
DH10-80	10	80	132	DH20-110	20	110	485
DH10-90	10	90	132	DH20-120	20	120	485

### Material

Through hardened Steel 100 Cr6 (1.3505) to HV550-650.

\* **Double Shear Strengths:** Tested to ISO 8749.

See **DP** dowels for hole tolerances and fits.

Shorter lengths available in some sizes, P.O.A.



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**DHX**

# MECHANICAL

## Extractable Dowel Pins

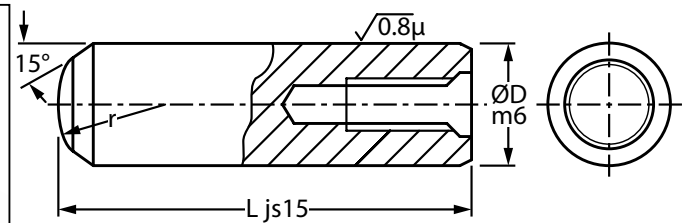
Hard Ground Steel : DIN 7979D : 4 - 10mm Dia.



**Chamfered End**



**Threaded End**



Part Number	ØD m6	L js15	Thread Size	Part Number	ØD m6	L js15	Thread Size
<a href="#">DHX4-10</a>	4	10	M2.5	<a href="#">DHX6-30</a>	6	30	M4
<a href="#">DHX4-12</a>	4	12	M2.5	<a href="#">DHX6-32</a>	6	32	M4
<a href="#">DHX4-14</a>	4	14	M2.5	<a href="#">DHX6-36</a>	6	36	M4
<a href="#">DHX4-16</a>	4	16	M2.5	<a href="#">DHX6-40</a>	6	40	M4
<a href="#">DHX4-20</a>	4	20	M2.5	<a href="#">DHX6-45</a>	6	45	M4
<a href="#">DHX4-24</a>	4	24	M2.5	<a href="#">DHX6-50</a>	6	50	M4
<a href="#">DHX4-28</a>	4	28	M2.5	<a href="#">DHX6-55</a>	6	55	M4
<a href="#">DHX4-30</a>	4	30	M2.5	<a href="#">DHX6-60</a>	6	60	M4
<a href="#">DHX4-32</a>	4	32	M2.5	<a href="#">DHX6-70</a>	6	70	M4
<a href="#">DHX4-36</a>	4	36	M2.5	<a href="#">DHX6-80</a>	6	80	M4
<a href="#">DHX4-40</a>	4	40	M2.5	<a href="#">DHX8-16</a>	8	16	M5
<a href="#">DHX4-50</a>	4	50	M2.5	<a href="#">DHX8-18</a>	8	18	M5
<a href="#">DHX5-10</a>	5	10	M3	<a href="#">DHX8-20</a>	8	20	M5
<a href="#">DHX5-12</a>	5	12	M3	<a href="#">DHX8-24</a>	8	24	M5
<a href="#">DHX5-14</a>	5	14	M3	<a href="#">DHX8-28</a>	8	28	M5
<a href="#">DHX5-16</a>	5	16	M3	<a href="#">DHX8-30</a>	8	30	M5
<a href="#">DHX5-18</a>	5	18	M3	<a href="#">DHX8-32</a>	8	32	M5
<a href="#">DHX5-20</a>	5	20	M3	<a href="#">DHX8-36</a>	8	36	M5
<a href="#">DHX5-24</a>	5	24	M3	<a href="#">DHX8-40</a>	8	40	M5
<a href="#">DHX5-28</a>	5	28	M3	<a href="#">DHX8-45</a>	8	45	M5
<a href="#">DHX5-30</a>	5	30	M3	<a href="#">DHX8-50</a>	8	50	M5
<a href="#">DHX5-32</a>	5	32	M3	<a href="#">DHX8-55</a>	8	55	M5
<a href="#">DHX5-36</a>	5	36	M3	<a href="#">DHX8-60</a>	8	60	M5
<a href="#">DHX5-40</a>	5	40	M3	<a href="#">DHX8-70</a>	8	70	M5
<a href="#">DHX5-45</a>	5	45	M3	<a href="#">DHX8-80</a>	8	80	M5
<a href="#">DHX5-50</a>	5	50	M3	<a href="#">DHX8-90</a>	8	90	M5
<a href="#">DHX6-12</a>	6	12	M4	<a href="#">DHX8-100</a>	8	100	M5
<a href="#">DHX6-14</a>	6	14	M4	<a href="#">DHX10-16</a>	10	16	M6
<a href="#">DHX6-16</a>	6	16	M4	<a href="#">DHX10-20</a>	10	20	M6
<a href="#">DHX6-18</a>	6	18	M4	<a href="#">DHX10-24</a>	10	24	M6
<a href="#">DHX6-20</a>	6	20	M4	<a href="#">DHX10-28</a>	10	28	M6
<a href="#">DHX6-24</a>	6	24	M4	<a href="#">DHX10-30</a>	10	30	M6
<a href="#">DHX6-28</a>	6	28	M4	<a href="#">DHX10-32</a>	10	32	M6

### Material

Through hardened and ground Steel 100 Cr6 (1.3505) to HV 550-650.  
Available in A2 Stainless Steel, P.O.A.

*These dowel pins have an air release flat ground to the full length of the pin to overcome the problem of reduced retention in blind holes due to trapped air.*

**DHX**

# MECHANICAL

## Extractable Dowel Pins

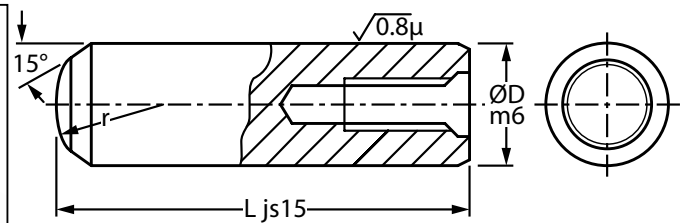
Hard Ground Steel : DIN 7979D : 10 - 20mm Dia.



**Chamfered End**



**Threaded End**



Part Number	ØD m6	L js15	Thread Size	Part Number	ØD m6	L js15	Thread Size
<a href="#">DHX10-36</a>	10	36	M6	<a href="#">DHX14-55</a>	14	55	M8
<a href="#">DHX10-40</a>	10	40	M6	<a href="#">DHX14-60</a>	14	60	M8
<a href="#">DHX10-45</a>	10	45	M6	<a href="#">DHX14-70</a>	14	70	M8
<a href="#">DHX10-50</a>	10	50	M6	<a href="#">DHX14-80</a>	14	80	M8
<a href="#">DHX10-55</a>	10	55	M6	<a href="#">DHX14-90</a>	14	90	M8
<a href="#">DHX10-60</a>	10	60	M6	<a href="#">DHX14-100</a>	14	100	M8
<a href="#">DHX10-70</a>	10	70	M6	<a href="#">DHX14-120</a>	14	120	M8
<a href="#">DHX10-80</a>	10	80	M6	<a href="#">DHX16-32</a>	16	32	M8
<a href="#">DHX10-90</a>	10	90	M6	<a href="#">DHX16-36</a>	16	36	M8
<a href="#">DHX10-100</a>	10	100	M6	<a href="#">DHX16-40</a>	16	40	M8
<a href="#">DHX10-120</a>	10	120	M6	<a href="#">DHX16-45</a>	16	45	M8
<a href="#">DHX12-20</a>	12	20	M6	<a href="#">DHX16-50</a>	16	50	M8
<a href="#">DHX12-24</a>	12	24	M6	<a href="#">DHX16-55</a>	16	55	M8
<a href="#">DHX12-28</a>	12	28	M6	<a href="#">DHX16-60</a>	16	60	M8
<a href="#">DHX12-30</a>	12	30	M6	<a href="#">DHX16-70</a>	16	70	M8
<a href="#">DHX12-32</a>	12	32	M6	<a href="#">DHX16-80</a>	16	80	M8
<a href="#">DHX12-36</a>	12	36	M6	<a href="#">DHX16-90</a>	16	90	M8
<a href="#">DHX12-40</a>	12	40	M6	<a href="#">DHX16-100</a>	16	100	M8
<a href="#">DHX12-45</a>	12	45	M6	<a href="#">DHX16-120</a>	16	120	M8
<a href="#">DHX12-50</a>	12	50	M6	<a href="#">DHX20-32</a>	20	32	M10
<a href="#">DHX12-55</a>	12	55	M6	<a href="#">DHX20-40</a>	20	40	M10
<a href="#">DHX12-60</a>	12	60	M6	<a href="#">DHX20-45</a>	20	45	M10
<a href="#">DHX12-70</a>	12	70	M6	<a href="#">DHX20-50</a>	20	50	M10
<a href="#">DHX12-80</a>	12	80	M6	<a href="#">DHX20-55</a>	20	55	M10
<a href="#">DHX12-90</a>	12	90	M6	<a href="#">DHX20-60</a>	20	60	M10
<a href="#">DHX12-100</a>	12	100	M6	<a href="#">DHX20-70</a>	20	70	M10
<a href="#">DHX12-120</a>	12	120	M6	<a href="#">DHX20-80</a>	20	80	M10
<a href="#">DHX14-28</a>	14	28	M8	<a href="#">DHX20-90</a>	20	90	M10
<a href="#">DHX14-32</a>	14	32	M8	<a href="#">DHX20-100</a>	20	100	M10
<a href="#">DHX14-36</a>	14	36	M8	<a href="#">DHX20-120</a>	20	120	M10
<a href="#">DHX14-40</a>	14	40	M8				
<a href="#">DHX14-45</a>	14	45	M8				
<a href="#">DHX14-50</a>	14	50	M8				

### Material

Through hardened and ground Steel 100 Cr6 (1.3505) to HV 550-650.  
Available in A2 Stainless Steel, P.O.A.

*These dowel pins have an air release flat ground to the full length of the pin to overcome the problem of reduced retention in blind holes due to trapped air.*

TP

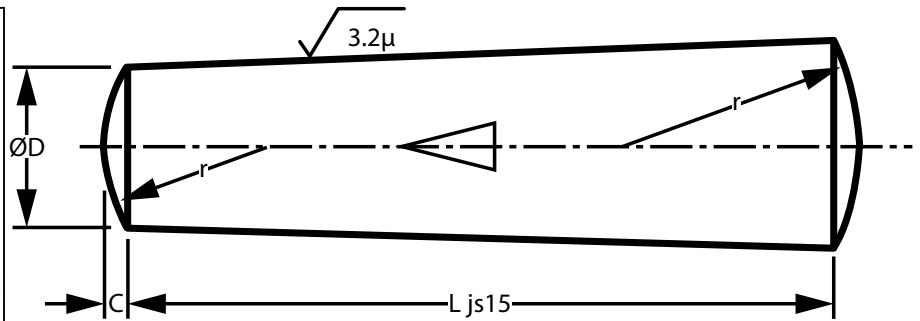
# MECHANICAL

## Taper Dowel Pins

Mild Steel : DIN 1B : 1.5 - 12mm Dia.



Rounded Ends



Part Number	ØD	L js15	C	Part Number	ØD	L js15	C	Part Number	ØD	L js15	C
<a href="#">TP1.5-6</a>	1.5	6	0.23	<a href="#">TP4-16</a>	4	16	0.60	<a href="#">TP8-20</a>	8	20	1.0
<a href="#">TP1.5-8</a>	1.5	8	0.23	<a href="#">TP4-18</a>	4	18	0.60	<a href="#">TP8-22</a>	8	22	1.0
<a href="#">TP1.5-10</a>	1.5	10	0.23	<a href="#">TP4-20</a>	4	20	0.60	<a href="#">TP8-24</a>	8	24	1.0
<a href="#">TP1.5-14</a>	1.5	14	0.23	<a href="#">TP4-22</a>	4	22	0.60	<a href="#">TP8-28</a>	8	28	1.0
<a href="#">TP1.5-16</a>	1.5	16	0.23	<a href="#">TP4-24</a>	4	24	0.60	<a href="#">TP8-30</a>	8	30	1.0
<a href="#">TP1.5-18</a>	1.5	18	0.23	<a href="#">TP4-28</a>	4	28	0.60	<a href="#">TP8-32</a>	8	32	1.0
<a href="#">TP1.5-20</a>	1.5	20	0.23	<a href="#">TP4-30</a>	4	30	0.60	<a href="#">TP8-36</a>	8	36	1.0
<a href="#">TP2-6</a>	2.0	6	0.30	<a href="#">TP4-32</a>	4	32	0.60	<a href="#">TP8-40</a>	8	40	1.0
<a href="#">TP2-8</a>	2.0	8	0.30	<a href="#">TP4-36</a>	4	36	0.60	<a href="#">TP8-45</a>	8	45	1.0
<a href="#">TP2-10</a>	2.0	10	0.30	<a href="#">TP4-40</a>	4	40	0.60	<a href="#">TP8-50</a>	8	50	1.0
<a href="#">TP2-12</a>	2.0	12	0.30	<a href="#">TP5-10</a>	5	10	0.75	<a href="#">TP8-55</a>	8	55	1.0
<a href="#">TP2-14</a>	2.0	14	0.30	<a href="#">TP5-12</a>	5	12	0.75	<a href="#">TP8-60</a>	8	60	1.0
<a href="#">TP2-16</a>	2.0	16	0.30	<a href="#">TP5-14</a>	5	14	0.75	<a href="#">TP8-65</a>	8	65	1.0
<a href="#">TP2-18</a>	2.0	18	0.30	<a href="#">TP5-16</a>	5	16	0.75	<a href="#">TP8-70</a>	8	70	1.0
<a href="#">TP2-20</a>	2.0	20	0.30	<a href="#">TP5-18</a>	5	18	0.75	<a href="#">TP8-80</a>	8	80	1.0
<a href="#">TP2-22</a>	2.0	22	0.30	<a href="#">TP5-20</a>	5	20	0.75	<a href="#">TP10-28</a>	10	28	1.2
<a href="#">TP2-24</a>	2.0	24	0.30	<a href="#">TP5-22</a>	5	22	0.75	<a href="#">TP10-30</a>	10	30	1.2
<a href="#">TP2.5-6</a>	2.5	6	0.40	<a href="#">TP5-24</a>	5	24	0.75	<a href="#">TP10-32</a>	10	32	1.2
<a href="#">TP2.5-8</a>	2.5	8	0.40	<a href="#">TP5-28</a>	5	28	0.75	<a href="#">TP10-36</a>	10	36	1.2
<a href="#">TP2.5-10</a>	2.5	10	0.40	<a href="#">TP5-30</a>	5	30	0.75	<a href="#">TP10-40</a>	10	40	1.2
<a href="#">TP2.5-12</a>	2.5	12	0.40	<a href="#">TP5-32</a>	5	32	0.75	<a href="#">TP10-45</a>	10	45	1.2
<a href="#">TP2.5-14</a>	2.5	14	0.40	<a href="#">TP5-36</a>	5	36	0.75	<a href="#">TP10-50</a>	10	50	1.2
<a href="#">TP2.5-16</a>	2.5	16	0.40	<a href="#">TP5-40</a>	5	40	0.75	<a href="#">TP10-55</a>	10	55	1.2
<a href="#">TP2.5-18</a>	2.5	18	0.40	<a href="#">TP5-45</a>	5	45	0.75	<a href="#">TP10-60</a>	10	60	1.2
<a href="#">TP2.5-20</a>	2.5	20	0.40	<a href="#">TP5-50</a>	5	50	0.75	<a href="#">TP10-65</a>	10	65	1.2
<a href="#">TP2.5-24</a>	2.5	24	0.40	<a href="#">TP6-10</a>	6	10	0.90	<a href="#">TP10-70</a>	10	70	1.2
<a href="#">TP3-6</a>	3.0	6	0.45	<a href="#">TP6-12</a>	6	12	0.90	<a href="#">TP10-80</a>	10	80	1.2
<a href="#">TP3-8</a>	3.0	8	0.45	<a href="#">TP6-14</a>	6	14	0.90	<a href="#">TP10-90</a>	10	90	1.2
<a href="#">TP3-10</a>	3.0	10	0.45	<a href="#">TP6-16</a>	6	16	0.90	<a href="#">TP10-100</a>	10	100	1.2
<a href="#">TP3-12</a>	3.0	12	0.45	<a href="#">TP6-18</a>	6	18	0.90	<a href="#">TP12-30</a>	12	30	1.6
<a href="#">TP3-14</a>	3.0	14	0.45	<a href="#">TP6-20</a>	6	20	0.90	<a href="#">TP12-32</a>	12	32	1.6
<a href="#">TP3-16</a>	3.0	16	0.45	<a href="#">TP6-22</a>	6	22	0.90	<a href="#">TP12-36</a>	12	36	1.6
<a href="#">TP3-18</a>	3.0	18	0.45	<a href="#">TP6-24</a>	6	24	0.90	<a href="#">TP12-40</a>	12	40	1.6
<a href="#">TP3-20</a>	3.0	20	0.45	<a href="#">TP6-28</a>	6	28	0.90	<a href="#">TP12-45</a>	12	45	1.6
<a href="#">TP3-22</a>	3.0	22	0.45	<a href="#">TP6-30</a>	6	30	0.90	<a href="#">TP12-50</a>	12	50	1.6
<a href="#">TP3-24</a>	3.0	24	0.45	<a href="#">TP6-32</a>	6	32	0.90	<a href="#">TP12-55</a>	12	55	1.6
<a href="#">TP3-28</a>	3.0	28	0.45	<a href="#">TP6-36</a>	6	36	0.90	<a href="#">TP12-60</a>	12	60	1.6
<a href="#">TP3-30</a>	3.0	30	0.45	<a href="#">TP6-40</a>	6	40	0.90	<a href="#">TP12-65</a>	12	65	1.6
<a href="#">TP4-6</a>	4.0	6	0.60	<a href="#">TP6-45</a>	6	45	0.90	<a href="#">TP12-70</a>	12	70	1.6
<a href="#">TP4-8</a>	4.0	8	0.60	<a href="#">TP6-50</a>	6	50	0.90	<a href="#">TP12-80</a>	12	80	1.6
<a href="#">TP4-10</a>	4.0	10	0.60	<a href="#">TP6-55</a>	6	55	0.90	<a href="#">TP12-90</a>	12	90	1.6
<a href="#">TP4-12</a>	4.0	12	0.60	<a href="#">TP6-60</a>	6	60	0.90	<a href="#">TP12-100</a>	12	100	1.6
<a href="#">TP4-14</a>	4.0	14	0.60								

### Material

Mild Steel (1.0718).

Also available in 303 and 316 Stainless Steel, P.O.A.

Other lengths available, P.O.A. 14, 16 and 20mm diameter dowel pins available as standard in lengths up to 150mm, P.O.A.

Specials and selection kits available, P.O.A.



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**TPX**

# MECHANICAL

## Extractable Taper Dowel Pins

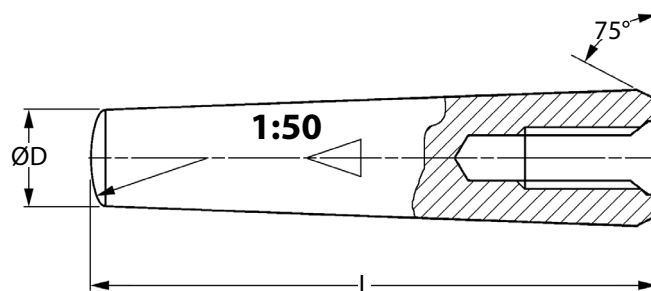
Mild Steel : DIN 7978 (ISO 8736) : 6 - 20mm Dia.



**Rounded End**



**Threaded End**



Part Number	ØD	L	Thread	Part Number	ØD	L	Thread	Part Number	ØD	L	Thread
<a href="#">TPX6-16</a>	6	16	M4	<a href="#">TPX10-24</a>	10	24	M6	<a href="#">TPX14-40</a>	14	40	M8
<a href="#">TPX6-18</a>	6	18	M4	<a href="#">TPX10-26</a>	10	26	M6	<a href="#">TPX14-45</a>	14	45	M8
<a href="#">TPX6-20</a>	6	20	M4	<a href="#">TPX10-28</a>	10	28	M6	<a href="#">TPX14-50</a>	14	50	M8
<a href="#">TPX6-24</a>	6	24	M4	<a href="#">TPX10-30</a>	10	30	M6	<a href="#">TPX14-55</a>	14	55	M8
<a href="#">TPX6-26</a>	6	26	M4	<a href="#">TPX10-32</a>	10	32	M6	<a href="#">TPX14-60</a>	14	60	M8
<a href="#">TPX6-28</a>	6	28	M4	<a href="#">TPX10-36</a>	10	36	M6	<a href="#">TPX14-70</a>	14	70	M8
<a href="#">TPX6-30</a>	6	30	M4	<a href="#">TPX10-40</a>	10	40	M6	<a href="#">TPX14-80</a>	14	80	M8
<a href="#">TPX6-32</a>	6	32	M4	<a href="#">TPX10-45</a>	10	45	M6	<a href="#">TPX14-90</a>	14	90	M8
<a href="#">TPX6-36</a>	6	36	M4	<a href="#">TPX10-50</a>	10	50	M6	<a href="#">TPX14-100</a>	14	100	M8
<a href="#">TPX6-40</a>	6	40	M4	<a href="#">TPX10-55</a>	10	55	M6	<a href="#">TPX14-110</a>	14	110	M8
<a href="#">TPX6-45</a>	6	45	M4	<a href="#">TPX10-60</a>	10	60	M6	<a href="#">TPX14-120</a>	14	120	M8
<a href="#">TPX6-50</a>	6	50	M4	<a href="#">TPX10-70</a>	10	70	M6	<a href="#">TPX16-40</a>	16	40	M10
<a href="#">TPX6-55</a>	6	55	M4	<a href="#">TPX10-80</a>	10	80	M6	<a href="#">TPX16-45</a>	16	45	M10
<a href="#">TPX6-60</a>	6	60	M4	<a href="#">TPX10-90</a>	10	90	M6	<a href="#">TPX16-50</a>	16	50	M10
<a href="#">TPX6-70</a>	6	70	M4	<a href="#">TPX10-100</a>	10	100	M6	<a href="#">TPX16-55</a>	16	55	M10
<a href="#">TPX6-80</a>	6	80	M4	<a href="#">TPX10-110</a>	10	110	M6	<a href="#">TPX16-60</a>	16	60	M10
<a href="#">TPX6-90</a>	6	90	M4	<a href="#">TPX10-120</a>	10	120	M6	<a href="#">TPX16-70</a>	16	70	M10
<a href="#">TPX8-20</a>	8	20	M5	<a href="#">TPX12-32</a>	12	32	M8	<a href="#">TPX16-80</a>	16	80	M10
<a href="#">TPX8-24</a>	8	24	M5	<a href="#">TPX12-36</a>	12	36	M8	<a href="#">TPX16-90</a>	16	90	M10
<a href="#">TPX8-26</a>	8	26	M5	<a href="#">TPX12-40</a>	12	40	M8	<a href="#">TPX16-100</a>	16	100	M10
<a href="#">TPX8-28</a>	8	28	M5	<a href="#">TPX12-45</a>	12	45	M8	<a href="#">TPX16-110</a>	16	110	M10
<a href="#">TPX8-30</a>	8	30	M5	<a href="#">TPX12-50</a>	12	50	M8	<a href="#">TPX16-120</a>	16	120	M10
<a href="#">TPX8-32</a>	8	32	M5	<a href="#">TPX12-55</a>	12	55	M8	<a href="#">TPX20-40</a>	20	40	M12
<a href="#">TPX8-36</a>	8	36	M5	<a href="#">TPX12-60</a>	12	60	M8	<a href="#">TPX20-45</a>	20	45	M12
<a href="#">TPX8-40</a>	8	40	M5	<a href="#">TPX12-70</a>	12	70	M8	<a href="#">TPX20-50</a>	20	50	M12
<a href="#">TPX8-45</a>	8	45	M5	<a href="#">TPX12-80</a>	12	80	M8	<a href="#">TPX20-55</a>	20	55	M12
<a href="#">TPX8-50</a>	8	50	M5	<a href="#">TPX12-90</a>	12	90	M8	<a href="#">TPX20-60</a>	20	60	M12
<a href="#">TPX8-55</a>	8	55	M5	<a href="#">TPX12-100</a>	12	100	M8	<a href="#">TPX20-70</a>	20	70	M12
<a href="#">TPX8-60</a>	8	60	M5	<a href="#">TPX12-110</a>	12	110	M8	<a href="#">TPX20-80</a>	20	80	M12
<a href="#">TPX8-70</a>	8	70	M5	<a href="#">TPX12-120</a>	12	120	M8	<a href="#">TPX20-90</a>	20	90	M12
<a href="#">TPX8-80</a>	8	80	M5					<a href="#">TPX20-100</a>	20	100	M12
<a href="#">TPX8-90</a>	8	90	M5					<a href="#">TPX20-110</a>	20	110	M12
<a href="#">TPX8-100</a>	8	100	M5					<a href="#">TPX20-120</a>	20	120	M12
<a href="#">TPX8-110</a>	8	110	M5								
<a href="#">TPX8-120</a>	8	120	M5								

### Material

Mild Steel (1.0718). Also available in 303 and 316 Stainless Steel, P.O.A.

Available with male thread to DIN 7977, P.O.A.

Specials available, P.O.A.



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**GRP**

# MECHANICAL

## Full Length Groove Pins

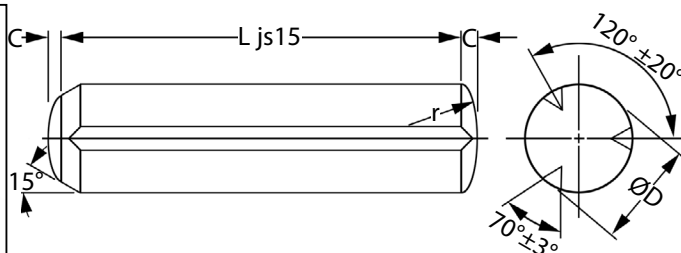
Mild Steel : Type GP3 (DIN 1473) : 1 - 4mm Dia.



**Chamfered End**



**Rounded End**



Part Number	ØD	L js15	C	Part Number	ØD m6	L js15	C
<a href="#">GRP1.5-4</a>	1.5	4	0.20	<a href="#">GRP2.5-18</a>	2.5	18	0.3
<a href="#">GRP1.5-5</a>	1.5	5	0.20	<a href="#">GRP2.5-20</a>	2.5	20	0.3
<a href="#">GRP1.5-6</a>	1.5	6	0.20	<a href="#">GRP2.5-22</a>	2.5	22	0.3
<a href="#">GRP1.5-8</a>	1.5	8	0.20	<a href="#">GRP2.5-24</a>	2.5	24	0.3
<a href="#">GRP1.5-10</a>	1.5	10	0.20	<a href="#">GRP2.5-26</a>	2.5	26	0.3
<a href="#">GRP1.5-12</a>	1.5	12	0.20	<a href="#">GRP2.5-28</a>	2.5	28	0.3
<a href="#">GRP1.5-14</a>	1.5	14	0.20	<a href="#">GRP2.5-30</a>	2.5	30	0.3
<a href="#">GRP1.5-16</a>	1.5	16	0.20	<a href="#">GRP3-6</a>	3.0	6	0.4
<a href="#">GRP1.5-18</a>	1.5	18	0.20	<a href="#">GRP3-8</a>	3.0	8	0.4
<a href="#">GRP1.5-20</a>	1.5	20	0.20	<a href="#">GRP3-10</a>	3.0	10	0.4
<a href="#">GRP2-4</a>	2.0	4	0.25	<a href="#">GRP3-12</a>	3.0	12	0.4
<a href="#">GRP2-5</a>	2.0	5	0.25	<a href="#">GRP3-14</a>	3.0	14	0.4
<a href="#">GRP2-6</a>	2.0	6	0.25	<a href="#">GRP3-16</a>	3.0	16	0.4
<a href="#">GRP2-8</a>	2.0	8	0.25	<a href="#">GRP3-18</a>	3.0	18	0.4
<a href="#">GRP2-10</a>	2.0	10	0.25	<a href="#">GRP3-20</a>	3.0	20	0.4
<a href="#">GRP2-12</a>	2.0	12	0.25	<a href="#">GRP3-22</a>	3.0	22	0.4
<a href="#">GRP2-14</a>	2.0	14	0.25	<a href="#">GRP3-24</a>	3.0	24	0.4
<a href="#">GRP2-16</a>	2.0	16	0.25	<a href="#">GRP3-26</a>	3.0	26	0.4
<a href="#">GRP2-18</a>	2.0	18	0.25	<a href="#">GRP3-28</a>	3.0	28	0.4
<a href="#">GRP2-20</a>	2.0	20	0.25	<a href="#">GRP3-30</a>	3.0	30	0.4
<a href="#">GRP2-22</a>	2.0	22	0.25	<a href="#">GRP4-6</a>	4.0	6	0.5
<a href="#">GRP2-24</a>	2.0	24	0.25	<a href="#">GRP4-8</a>	4.0	8	0.5
<a href="#">GRP2-26</a>	2.0	26	0.25	<a href="#">GRP4-10</a>	4.0	10	0.5
<a href="#">GRP2-28</a>	2.0	28	0.25	<a href="#">GRP4-12</a>	4.0	12	0.5
<a href="#">GRP2-30</a>	2.0	30	0.25	<a href="#">GRP4-14</a>	4.0	14	0.5
<a href="#">GRP2.5-6</a>	2.5	6	0.30	<a href="#">GRP4-16</a>	4.0	16	0.5
<a href="#">GRP2.5-8</a>	2.5	8	0.30	<a href="#">GRP4-18</a>	4.0	18	0.5
<a href="#">GRP2.5-10</a>	2.5	10	0.30	<a href="#">GRP4-20</a>	4.0	20	0.5
<a href="#">GRP2.5-12</a>	2.5	12	0.30	<a href="#">GRP4-22</a>	4.0	22	0.5
<a href="#">GRP2.5-14</a>	2.5	14	0.30	<a href="#">GRP4-24</a>	4.0	24	0.5
<a href="#">GRP2.5-16</a>	2.5	16	0.30	<a href="#">GRP4-26</a>	4.0	26	0.5

### Material

Mild Steel.

A2 Stainless Steel available, P.O.A.

1mm, 1.2mm (Type GP3 only) plus 10mm & 12mm diameters available, P.O.A.

Hardened Steel, A4 Stainless Steel and Brass available to special order.

14mm, 16mm & 20mm diameters also available to special order.

**Note:** The groove diameter must be measured using ring gauges.

The groove diameter figures are valid for Steel only.

Stainless Steel grooved pins have a slightly smaller diameter over the grooves.

### Features

Grooved pins are solid pins with three swaged grooves at 120° pitch along all or part of their length. When the pin is driven into a drilled hole of suitable diameter, the material displaced by the grooving process is forced back, to partially close up the grooves and lock the pin into place.

- They do not need a precision reamed hole.
- They can have parallel grooves or tapered grooves. Parallel grooves give the pin high resistance to vibration, but need more force to insert.
- They can be grooved on only part of the length, so that where the pin has to be firmly fixed in one part of an assembly, but be a clearance fit on the other, both parts can be drilled to the same diameter.



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**GRP**

# MECHANICAL

## Full Length Groove Pins

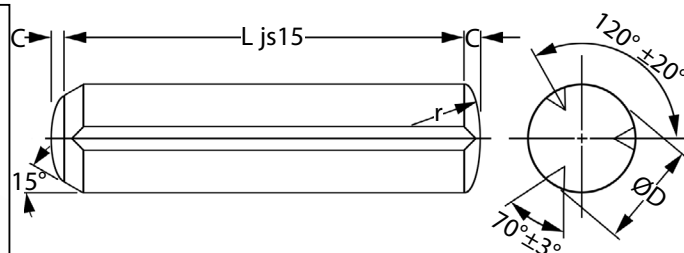
Mild Steel : Type GP3 (DIN 1473) : 4 - 8mm Dia.



**Chamfered End**



**Rounded End**



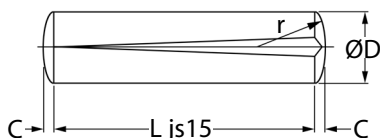
Part Number	ØD m6	L js15	C
<a href="#">GRP4-28</a>	4	28	0.5
<a href="#">GRP4-30</a>	4	30	0.5
<a href="#">GRP4-32</a>	4	32	0.5
<a href="#">GRP4-40</a>	4	40	0.5
<a href="#">GRP4-45</a>	4	45	0.5
<a href="#">GRP4-50</a>	4	50	0.5
<a href="#">GRP5-8</a>	5	8	0.6
<a href="#">GRP5-10</a>	5	10	0.6
<a href="#">GRP5-12</a>	5	12	0.6
<a href="#">GRP5-14</a>	5	14	0.6
<a href="#">GRP5-16</a>	5	16	0.6
<a href="#">GRP5-18</a>	5	18	0.6
<a href="#">GRP5-20</a>	5	20	0.6
<a href="#">GRP5-22</a>	5	22	0.6
<a href="#">GRP5-24</a>	5	24	0.6
<a href="#">GRP5-26</a>	5	26	0.6
<a href="#">GRP5-28</a>	5	28	0.6
<a href="#">GRP5-30</a>	5	30	0.6
<a href="#">GRP5-32</a>	5	32	0.6
<a href="#">GRP5-36</a>	5	36	0.6
<a href="#">GRP5-40</a>	5	40	0.6
<a href="#">GRP5-45</a>	5	45	0.6
<a href="#">GRP5-50</a>	5	50	0.6
<a href="#">GRP6-8</a>	6	8	0.8
<a href="#">GRP6-10</a>	6	10	0.8
<a href="#">GRP6-12</a>	6	12	0.8
<a href="#">GRP6-14</a>	6	14	0.8
<a href="#">GRP6-16</a>	6	16	0.8
<a href="#">GRP6-18</a>	6	18	0.8
<a href="#">GRP6-20</a>	6	20	0.8
<a href="#">GRP6-22</a>	6	22	0.8

Part Number	ØD m6	L js15	C
<a href="#">GRP6-24</a>	6	24	0.8
<a href="#">GRP6-26</a>	6	26	0.8
<a href="#">GRP6-28</a>	6	28	0.8
<a href="#">GRP6-30</a>	6	30	0.8
<a href="#">GRP6-32</a>	6	32	0.8
<a href="#">GRP6-36</a>	6	36	0.8
<a href="#">GRP6-40</a>	6	40	0.8
<a href="#">GRP6-45</a>	6	45	0.8
<a href="#">GRP6-50</a>	6	50	0.8
<a href="#">GRP6-55</a>	6	55	0.8
<a href="#">GRP6-60</a>	6	60	0.8
<a href="#">GRP8-10</a>	8	10	1.0
<a href="#">GRP8-12</a>	8	12	1.0
<a href="#">GRP8-14</a>	8	14	1.0
<a href="#">GRP8-16</a>	8	16	1.0
<a href="#">GRP8-18</a>	8	18	1.0
<a href="#">GRP8-20</a>	8	20	1.0
<a href="#">GRP8-22</a>	8	22	1.0
<a href="#">GRP8-24</a>	8	24	1.0
<a href="#">GRP8-26</a>	8	26	1.0
<a href="#">GRP8-28</a>	8	28	1.0
<a href="#">GRP8-30</a>	8	30	1.0
<a href="#">GRP8-32</a>	8	32	1.0
<a href="#">GRP8-36</a>	8	36	1.0
<a href="#">GRP8-40</a>	8	40	1.0
<a href="#">GRP8-45</a>	8	45	1.0
<a href="#">GRP8-50</a>	8	50	1.0
<a href="#">GRP8-55</a>	8	55	1.0
<a href="#">GRP8-60</a>	8	60	1.0
<a href="#">GRP8-65</a>	8	65	1.0
<a href="#">GRP8-70</a>	8	70	1.0

**Other options available:**

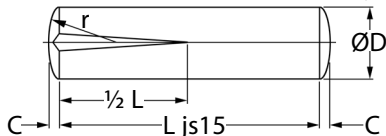
**Type GP1 (DIN 1471, similar to ISO 8744)**

Full length taper grooves used to fix two or more components together, but with less insertion force.



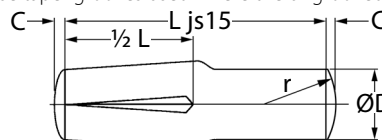
**Type GP2 (DIN 1472, similar to ISO 8745)**

Half length taper grooves used where part of the assembly must be a free fit.



**Type GP4 (DIN 1474, similar to ISO 8741)**

Half length reverse taper grooves used where the ungrooved portion acts as a stop or handle.



**Type GP8 (DIN 1475, similar to ISO 8742)**

Third length centre grooves used on hinges or clevises where the two ends must act as pivots

